



U.S. Department of  
Transportation  
Federal Railroad  
Administration

## Private Highway-Rail Grade Crossing Safety Research and Inquiry, Volume II—Appendices

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Office of Research  
and Development  
Washington, DC 20590



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# **Appendix A.1**

## **Public Meeting, Fort Snelling, MN**



**U.S. Department of Transportation  
Federal Railroad Administration**

**Safety at Private Highway-Rail Grade Crossings**

**Public Meeting Agenda**

Bishop Henry Whipple Federal Building  
1 Federal Drive,  
Fort Snelling, MN 55111

Wednesday, August 30, 2006  
9:30 AM – 5:00 PM

**Call to Order**

**Safety Briefing**

**Introductions**

**Grady C. Cothen**, Deputy Associate Administrator, Office of Safety, Federal Railroad Administration

**Susan Aylesworth**, Director of Railroad Administration, Minnesota Department of Transportation

**Miriam Kloeppel**, Highway-Rail Grade Crossing and Trespasser Safety Division, Office of Safety, Federal Railroad Administration

**Meeting Format & Rules of Conduct**

**Kathryn Shelton**, Attorney, Office of Chief Counsel, Federal Railroad Administration

**Public Meeting**

**Closing Remarks**

**Adjournment**

Last Name		First Name	Organization	Industry
Browder	William	Association of American Railroads	AAR	Railroad
Vander Clute	Bob	Association of American Railroads	AAR	Railroad
Perkovich	Tom	Brotherhood of Locomotive Engineers and Triarmen	BLET	Railroad
DePaape	Tim	Brotherhood of Railroad Signalmen	BRS	Railroad
Abbot	Spencer	Burlington Northern Sante Fe Railroad	BNSF	Railroad
Cocchiarella	Alfonse	Burlington Northern Sante Fe Railroad	BNSF	Railroad
Leibfried	Lynn	Burlington Northern Sante Fe Railroad	BNSF	Railroad
Rasmussen	Craig	Burlington Northern Sante Fe Railroad	BNSF	Railroad
Warren	George	Burlington Northern Sante Fe Railroad	BNSF	Railroad
Harris	Randy	Canadian National Railroad	CN	Railroad
Lee	Terry	Canadian National Railroad	CN	Railroad
Bicha	Paul	Canadian Pacific Railway	CP	Railroad
Keinzler	Jim	Canadian Pacific Railway	CP	Railroad
Kreiger	Jim	Canadian Pacific Railway	CP	Railroad
McCorkle	Rod	Canadian Pacific Railway	CP	Railroad
Abbate	Patricia	Citizens for Rail Safety	CP	Railroad
Whitemore	Shane	CSX Railroad	CSX	Non-Profit Public Interest Group
Baer	Peggy	Iowa Department of Transportation	Iowa DOT	Railroad
Pepper	Allen	Kansas City Southern Railway Company	KCSR	Government
Aylesworth	Susan	Minnesota Department of Transportation	MNDOT	Railroad
Kahnke	Dan	Minnesota Department of Transportation	MNDOT	Government
Spencer	Tim	Minnesota Department of Transportation	MNDOT	State
Crakes	Stacy	TKDA		Government
Hillman	Mike	TKDA		Engineering Firm
Opal	Bob	Union Pacific Railroad	UPRR	Engineering Firm
Peterson	David	Union Pacific Railroad	UPRR	Railroad
Adams	Chris	US Department of Transportation / Federal Railroad Administration	USDOT/FRA	Railroad
Comstock	Paul	US Department of Transportation / Federal Railroad Administration	USDOT/FRA	Government
Gillespie	Grady	US Department of Transportation / Federal Railroad Administration	USDOT/FRA	Government
Howe	Howard	US Department of Transportation / Federal Railroad Administration	USDOT/FRA	Government
Kloppel	Bennie	US Department of Transportation / Federal Railroad Administration	USDOT/FRA	Government
Long	Miriam	US Department of Transportation / Federal Railroad Administration	USDOT/FRA	Government
Ries	Ron	US Department of Transportation / Federal Railroad Administration	USDOT/FRA	Government
Shelton	Kathy	US Department of Transportation / Federal Railroad Administration	USDOT/FRA	Government
Wagner	Tammy	US Department of Transportation / Federal Railroad Administration	USDOT/FRA	Government
Carroll	Anya	US Department of Transportation / Voipe National Transportation Systems Center	USDOT/Voipe	Government
Garcia	Perla	US Department of Transportation / Voipe National Transportation Systems Center	USDOT/Voipe	Government
Peck	Steven	US Department of Transportation / Voipe National Transportation Systems Center	USDOT/Voipe	Government
Tuthill	Stacey	Weber Shandwick		Government
Adams	Ron	Wisconsin Department of Transportation	WisDOT	Public Relations Firm
Morrison	Mark	Wisconsin Department of Transportation	WisDOT	Government



# **Appendix A.2**

## **Public Meeting, Raleigh, NC**



# Safety at Private Highway-Rail Grade Crossings Public Meeting Agenda

McMimmon Conference & Training Center  
North Carolina State University, 1101 Gorman Street  
Raleigh, NC 27606

Wednesday, September 27, 2006  
9:30 AM – 5:00 PM

## Call to Order

## Safety Briefing

## Introductions

**Grady C. Cothen**, Deputy Associate Administrator, Office of Safety,  
Federal Railroad Administration

## Welcome

**Pat Simmons**, Director, Rail Division, North Carolina Department of  
Transportation

## Overview

**Miriam Kloeppe**, Highway-Rail Grade Crossing and Trespasser Safety  
Division, Office of Safety, Federal Railroad Administration.

## Meeting Format & Rules of Conduct

**Ronald Ries**, Staff Director, Highway-Rail Grade Crossing and Trespasser  
Safety Division, Office of Safety, Federal Railroad Administration

## Prepared Statements

**Paul C. Worley**, Assistant Director for Engineering and Safety, Rail Division,  
North Carolina Department of Transportation – North Carolina Experience

**Bob Pressley**, Gannett-Fleming - Private Crossing Safety Initiative Study for  
NCDOT, funded by FRA.

## Public Meeting Theme - Engineering Design

**Open Discussion** - Public and Private Crossing Definition Matrix

**Open Discussion** - Standard Suite of Traffic Control Devices and Intersection  
Design Standards

## Other Comments

## Closing Remarks

## Adjournment



Last Name First Name		Organization	Industry
Browder	William	Association of American Railroads	Railroad
Bryant	John	Bass, Bryant, & Fanne, PLLC	Legal Counsel
Stayton	Cliff	CSX Railroad	Railroad
Whitemore	Shane	CSX Railroad	Railroad
Pressley	Bob	Gannett Fleming Incorporated	Engineering Firm
Barringer	W L	Norfolk Southern Corporation	Railroad
Schwartz	Stuart	Norfolk Southern Corporation	Railroad
Stanback	Haskel	Norfolk Southern Corporation	Railroad
Cruz	Ric	North Carolina Department of Transportation	Government
Field	Jason	North Carolina Department of Transportation	Government
Petteway	Arthur	North Carolina Department of Transportation	Government
Simmons	Patrick	North Carolina Department of Transportation	Government
Worley	Paul	North Carolina Department of Transportation	Government
Young	George	North Carolina Department of Transportation	Government
Christian	Kat	North Carolina Railroad Company	Government
Gilbert	Danny	Rail Safety Consultants	Railroad
Medlin	Tina	RE/MAX International Incorporated	Consulting Company
Bray	R Dale	Union Pacific Railroad	Real Estate Broker/Sales
Lamm	G A	United Transportation Union	Class I
Westbrook	Richard	United Transportation Union	Labor Group
Cothen	Grady	US Department of Transportation / Federal Railroad Administration	Labor Group
Kloepfel	Miriam	US Department of Transportation / Federal Railroad Administration	Federal
Spurlock	Leslie	US Department of Transportation / Federal Railroad Administration	Federal
Thomas	Donald	US Department of Transportation / Federal Railroad Administration	Federal
Ries	Ron	US Department of Transportation / Federal Railroad Administration	Federal
Carrroll	Anya	US Department of Transportation / Volpe National Transportation Systems Center	Federal
Garcia	Perla	US Department of Transportation / Volpe National Transportation Systems Center	Federal
Gustave	Mirna	US Department of Transportation / Volpe National Transportation Systems Center	Federal
Perry	John	West Virginia Public Service Commission / Operation Lifesaver	Federal
Lipscomb	Roger	Trackspec Railroad Corporation	State
Shank	Gary		Contractor
Taylor	Susan		Private Citizen



# **Appendix A.3**

## **Public Meeting, San Francisco, CA**



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## Safety at Private Highway-Rail Grade Crossings Public Meeting Agenda

**Philip Burton Federal Building and Courthouse**

450 Golden Gate Avenue  
San Francisco, CA 94102

**Thursday, October 26, 2006**

**9:30 AM – 5:00 PM**

### **Call to Order**

### **Safety Briefing**

### **Introductions**

**Grady C. Cothen**, Deputy Associate Administrator, Office of Safety, Federal Railroad Administration

### **Welcome**

**Clifford C. Eby**, Deputy Administrator, Federal Railroad Administration

**Vahak Petrossian**, Manager, Rail Transit & Crossings Branch, California Public Utilities Commission

### **Meeting Format & Rules of Conduct**

**Mark Tessler**, Assistant Chief Counsel for Safety, Office of Chief Counsel, Federal Railroad Administration

### **Overview**

**Miriam Kloeppe**, Highway-Rail Grade Crossing and Trespasser Safety Division, Office of Safety, Federal Railroad Administration

### **Prepared Statements**

**Daren Gilbert**, Supervisor, Rail Crossings Engineering Section, California Public Utilities Commission

**Steve Cates**, Chief, Office of Rail Equipment and Track Construction, California Department of Transportation

### **Public Meeting Theme - Responsibility**

#### **Open Discussion – Case Studies**

**Miriam Kloeppe**, Highway-Rail Grade Crossing and Trespasser Safety Division, Office of Safety, Federal Railroad Administration

#### **Open Discussion – Hypothetical Scenarios**

**Anya Carroll**, Principal Investigator, Rail and Transit Systems Division, Volpe National Transportation Systems Center

#### **Other Comments**

### **Closing Remarks**

### **Adjournment**





# **Appendix A.4**

## **Public Meeting, New Orleans, LA**



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## Safety at Private Highway-Rail Grade Crossings Public Meeting Agenda

Chateau Sonesta Hotel New Orleans  
800 Iberville Street  
New Orleans, LA 70112  
Wednesday, December 6, 2006  
9:30 AM – 5:00 PM

### Call to Order

### Safety Briefing

### Introductions

**Grady C. Cothen**, Deputy Associate Administrator, Office of Safety, Federal Railroad Administration

### Welcome

**Richard Savoie, P.E.**, Deputy Chief Engineer, Louisiana Department of Transportation and Development

### Meeting Format & Rules of Conduct

**Mark Tessler**, Assistant Chief Counsel for Safety, Office of Chief Counsel, Federal Railroad Administration

### Overview

**Miriam Kloeppe**, Highway-Rail Grade Crossing and Trespasser Safety Division, Office of Safety, Federal Railroad Administration

### Prepared Statements

**Betsy Tramonte**, Executive Director, Louisiana Operation Lifesaver

### Public Meeting Theme – Data Elements

**Open Discussion** – Data Elements and Utilization

**Miriam Kloeppe**, Highway-Rail Grade Crossing and Trespasser Safety Division, Office of Safety, Federal Railroad Administration

**Open Discussion** – Data Collection

**Anya Carroll**, Principal Investigator, Rail and Transit Systems Division, Volpe National Transportation Systems Center

### Other Comments

### Closing Remarks

### Adjournment



Last Name	First Name	Organization	Industry
Burlerson	David	Acadiana Railway Company	Railroad
Browder	William	Association of American Railroads	Railroad
Saunders	Ben	American Trial Lawyers' Association	Legal Counsel
Talley	Patrick	Filrot Patridge Kohnke & Clements, LC / Burlington Northern Sante Fe	Legal Counsel
Hellmers	Carl	Filrot Patridge Kohnke & Clements, LC / Burlington Northern Sante Fe	Legal Counsel
DePaape	Tim	Brotherhood of Railroad Signalmen	Railroad
Meyer	Mary Beth	Christovich & Kearney LLP	Legal Counsel
Rau	Wayne	City of Gretna	Government
Guerra	Vaness	City of Laredo / MPO	Government
Selman	Samuel Keith	City of Laredo TX	Government
Crader	David	Canadian National Railway	Railroad
Dinning	John	Canadian National Railway	Railroad
Harris	Randy	Canadian National Railway	Railroad
Healey	Tom	Canadian National Railway	Railroad
Kvedaras	Jim	Canadian National Railway	Railroad
Whitemore	Shane	CSX Corporation	Railroad
Serna	Seve	US Department of Transportation / Federal Highway Administration	Government
Strinfellow	Mary	US Department of Transportation / Federal Highway Administration	Government
Cook	Carolyn	US Department of Transportation / Federal Railroad Administration	Government
Cothen	Grady	US Department of Transportation / Federal Railroad Administration	Government
Drake	Tom	US Department of Transportation / Federal Railroad Administration	Government
Kloepfel	Miriam	US Department of Transportation / Federal Railroad Administration	Government
Ries	Ron	US Department of Transportation / Federal Railroad Administration	Government
Tessler	Mark	US Department of Transportation / Federal Railroad Administration	Government
Pepper	Allen	Kansas City Southern	Railroad
Laiche	Bryant	Operation Life Saver - Louisiana	Class I
Tramonte	Betsy	Operation Life Saver - Louisiana	Class I
Brunty	Kim	Louisiana Department of Transportation and Development	State
Ferguson	Gretchen	Louisiana Department of Transportation and Development	State
Savoie	Richard	Louisiana Department of Transportation and Development	State
Schiro	Karla	Louisiana Department of Transportation and Development	State
Shrewsberry	Bill	Louisiana Department of Transportation and Development	State
Suarez	Mark	Louisiana Department of Transportation and Development	State
Van Mol	John	Leventon Farms / Private Citizen	Private
Swales	Edward Butch	Mississippi Department of Transportation	Government
Barringer	William	Norfolk Southern Corporation	Railroad
Stanback	Haskel	Norfolk Southern Corporation	Railroad
Campbell	Rick	Railroad Controls Limited	Consulting
Betel	Richard	Rio Grande Pacific Corp	Railroad
Meyer	Gabriel	Union Pacific Railroad	Railroad
Rathgeber	Paul	Union Pacific Railroad	Railroad
Rouse	Ken	Union Pacific Railroad	Railroad
Carroll	Anya	US Department of Transportation / Volpe National Transportation Systems Center	Government
Garcia	Perla	US Department of Transportation / Volpe National Transportation Systems Center	Government
Gustave	Mirna	US Department of Transportation / Volpe National Transportation Systems Center	Government
Peck	Steven	US Department of Transportation / Volpe National Transportation Systems Center	Government



# **Appendix A.5**

## **Public Meeting, Syracuse, NY**



# Safety at Private Highway-Rail Grade Crossings Public Meeting Agenda

Renaissance Syracuse Hotel  
701 East Genesee Street  
Syracuse, NY 13210  
Thursday, July 26, 2007  
9:30 AM – 5:00 PM

## Call to Order

## Safety Briefing

## Introductions & Welcome

**Grady C. Cothen**, Deputy Associate Administrator, Office of Safety, Federal Railroad Administration

**Clarence W. “Ike” Scott**, Director, Intermodal Projects Bureau, Freight & Economic Development Division, New York State Department of Transportation

## Meeting Format & Rules of Conduct

**Mark Tessler**, Assistant Chief Counsel for Safety, Office of Chief Counsel, Federal Railroad Administration

## Prepared Statements

**Clarence W. “Ike” Scott**, Director, Intermodal Projects Bureau, Freight & Economic Development Division, New York State Department of Transportation

**William D. Burt**, Chairman, Regulatory Review Committee, Railroads of New York, Incorporated

## Public Meeting

### Findings

**Miriam Kloeppel**, Highway-Rail Grade Crossing and Trespasser Safety Division, Office of Safety, Federal Railroad Administration

### Policy Considerations and Topical Discussion

**Grady C. Cothen**, Deputy Associate Administrator, Office of Safety, Federal Railroad Administration

## Closing Remarks

## Adjournment

Last Name		First Name		Organization		Industry	
Bailey	Lawrence	Hodgson Russ LLP				Legal	
Barber	William	New York State Department of Transportation				Railroad	State
Barringer	William	Norfolk Southern Corporation				Railroad	Class I
Bennett	Michael	US Department of Transportation / Federal Railroad Administration				Government	Federal
Bergeron	Roger	Pan Am Railways				Railroad	Short-line
Boyer	Melanie	New York Susquehanna & Western Railway				Railroad	Short-line
Browder	William	Association of American Railroads				Railroad	
Burt	William	Railroad Corporations of New York Incorporated				Railroad	
Carroll	Anya	US Department of Transportation / Volpe National Transportation Systems Center				Government	Federal
Cothen	Grady	US Department of Transportation / Federal Railroad Administration				Government	Federal
Cummings	John	Indiana Rail Road Company				Railroad	Short-line
Curley	Stephen	Connecticut Department of Transportation				Government	State
Danbar	Alex	WSTM-TV NBC3 / CW6				Broadcast Television	Local Affiliate
Dickinson	Randall	US Department of Transportation / Federal Railroad Administration				Government	Federal
DiLorenzo	Frank	MTA Metro North Rail Road				Railroad	Commuter - Transit
Ford	Carl	New York State Department of Transportation				Government	State
Fraley	Charles	Sheet Metal Workers International Association				Government	Labor Group
Frangella	Lou	CSX Corporation				Railroad	Class I
Goulet	Glenn	US Department of Transportation / Volpe National Transportation Systems Center				Government	Federal
Grizkewitsch	Michail	US Department of Transportation / Federal Railroad Administration				Government	Federal
Gustave	Mirna	US Department of Transportation / Volpe National Transportation Systems Center				Government	Federal
Harris	Carol	Union Pacific Railroad				Railroad	Class I
Harris	Randy	Canadian National Railway				Railroad	Class I
Hendricks	Evelyn	US Department of Transportation / Federal Railroad Administration				Government	Federal
Kloppel	Miriam	US Department of Transportation / Federal Railroad Administration				Government	Federal
Latino	Tiffany	News Radio 570 WSYR Syracuse				Broadcast Radio	
Louis	James	Brotherhood of Locomotive Engineers and Trainmen				Railroad	Labor Group
Lund	Gregory	Brotherhood of Locomotive Engineers and Trainmen				Railroad	Labor Group
McKeon	Mark	US Department of Transportation / Federal Railroad Administration				Government	Federal
McVey	Caitlyn	TWEAN News Channel of Syracuse LLC / News 10 Now				Broadcast Television	
Peck	Steven	US Department of Transportation / Volpe National Transportation Systems Center				Government	Federal
Petrella	Dan	New York State Department of Transportation				Government	State
Plukas	Richard	Fitzsimmons, Nunn, Fitzsimmons & Plukas, LLP				Legal	
Poichuk	Phillip	Transport Canada				Government	Federal / International
Ries	Ron	US Department of Transportation / Federal Railroad Administration				Government	Federal
Rohauer	Robert	CSX Corporation				Railroad	Class I
Saltz	Brian	MTA Long Island Railroad				Railroad	Commuter - Transit
Schwartz	Stuart	Norfolk Southern Corporation				Railroad	Class I
Scott	Clarence	New York State Department of Transportation				Government	State
Siwula	Tom	C & S Companies				Engineering/architecture/Consturction	Consultants
Stem	James	United Transportation Union				Railroad	Labor Group
Thomas	Julie	Connecticut Department of Transportation				Government	State
Vitale	Meghan	Syracuse Metropolitan Transportation Council				Metropolitan Planning Organization	
Wagner	Tammy	US Department of Transportation / Federal Railroad Administration				Government	Federal
Werksma	Jared	WSTM-TV NBC3 / CW6				Broadcast Television	Local Affiliate
Whitemore	Shane	CSX Corporation				Railroad	Class I
Winsted	Robert	US Department of Transportation / Federal Railroad Administration				Government	Federal



# **Appendix A.6**

## **Transportation Research Board Panel Discussion, Washington, DC**

1 SAFETY AT PRIVATE HIGHWAY RAIL GRADE CROSSINGS

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COMMITTEE HEARING

10 WASHINGTON, D. C.

11 JANUARY 23, 2007

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21 ATKINSON-BAKER, INC.  
22 COURT REPORTERS  
23 500 BRAND BOULEVARD, THIRD FLOOR  
24 GLENDALE, CALIFORNIA 91203  
25 (800) 288-3376

24 REPORTED BY: CARLA L. ANDREWS, CSR NO: 78506

25 FILE NO.: A00A5A9

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1 SAFETY AT PRIVATE HIGHWAY RAIL GRADE CROSSINGS

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Committee meeting, taken at the Marriott Hotel  
Washington, D.C., commencing at 3:50 p.m., Tuesday  
January 23, 2007, before CARLA L. ANDREWS, CSR No.  
78506.

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A P P E A R A N C E S

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FOR THE PANEL:

MIRIAM KLOEPPEL  
GUAN XU

6 PAUL WORLEY  
7 RICHARD CAMPBELL  
8 WILLIAM BROWDER  
9 AIDAN NELSON

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1 P-R-O-C-E-E-D-I-N-G-S  
2 THE MODERATOR: The session today No. 071 is  
3 a panel session on the safety of private highway rail  
4 grade crossings. My name is Anya Carroll, and I am the  
5 chair of the Highway Rail Grade Crossings Committee, HB  
6 60. And I am happy to be here today to moderate this  
7 session with our distinguished panel, which I will  
8 introduce in a moment.

9           The TRB Committee is happy to support the FRA  
10 in its safety inquiry on private crossings. And as  
11 such, an occurrence today is that we have a  
12 stenographer with us, which will be transcribing the  
13 comments so that we can capture everybody's ideas and  
14 thoughts and questions on the private crossing issue.

15           So because of that occurrence, I would like  
16 to make sure that before you speak, you actually  
17 introduce yourself -- your first and last name. If you  
18 could spell your last name the first time that you  
19 speak, that would be helpful to the stenographer.  
20 Also, if you speak a bit more slowly, she is more than  
21 likely to capture your thoughts more accurately.

22           So thank you all for attending.

23           Our distinguished panel today from the  
24 Federal Railroad Administration is Miriam Kloeppele.  
25 And she is with the Office of Safety. We have Guan Xu

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1 from the Federal Highway Administration; Bill Browder  
2 from the Association of American Railroads; Rick  
3 Campbell from Railroad Controls, Limited; Paul Worley  
4 from North Carolina, DOT; and Aidan Nelson from the  
5 Rail Safety and Standards Board in the United Kingdom.  
6 I would like to welcome our panel of distinguished  
7 guests.

8           With that, I just have a few more opening  
9 remarks. As far as the temperament of the panel  
10 session this afternoon, each panel member will give a  
11 five- to ten-minute position statement, which will take

12 us to about 45, 50 minutes of the session. And then it  
13 will be an open discussion amongst all of us here in  
14 attendance and the panel members.

15           And we are open to any comments, questions,  
16 concerns that you have about the safety of private  
17 highway rail grade crossings. Two other things that I  
18 would like to mention is our committee meeting, the  
19 Highway Rail Grade Crossing Committee meeting, will be  
20 tomorrow at 8 a.m. till noon. And it is in Lincoln II,  
21 which is on the exhibition level across from the poster  
22 sessions. And I would also like to invite you to  
23 Syracuse, New York on February 15, at the Doubletree  
24 Hotel where we will be holding our fifth and last  
25 public meeting on safety of private crossings highway

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1 rail grade crossings.

2           So with that, I will have the panel members  
3 give a short introduction of themselves and we will  
4 continue. So we will start with Miriam Kloepfel.

5           MS. KLOEPPEL: Good afternoon, ladies and  
6 gentlemen. Thank you for coming. Private crossing  
7 safety has for some time been a matter of concern to  
8 the U.S. Department of Transportation and to other  
9 federal agencies. In 1993 the FRA hosted an open  
10 meeting to initiate industry-wide discussions.

11           And in a 1994 rail highway safety action  
12 plan, the U.S. DOT proposed to develop national minimum  
13 standards for private crossings. In a 1997 study on  
14 safety at passive grade crossings, the NTSB highlighted  
Page 5

15 the need for some system to improve private crossing  
16 safety and recommended that U. S. DOT, in conjunction  
17 with the states, determine governmental oversight  
18 responsibility for safety at private grade crossings.

19 In 1999 the NTSB weighed in again in its  
20 report on private grade crossings incidents in Portage,  
21 Indiana. In this case, the NTSB recommended that the  
22 DOT eliminate any differences between public and  
23 private crossings with regard to funding or  
24 requirements for safety improvements.

25 In 2004 the U. S. DOT published an updated

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1 action plan in which the FRA committed to leading an  
2 effort to define responsibility for safety of private  
3 crossings. Today's meeting is a vital part of that  
4 effort.

5 The FRA, for any of you who are not familiar  
6 with us, has eight regional offices geographically  
7 distributed across the country. As you can see from  
8 this chart, regardless of the region, private crossings  
9 constitute a significant percentage of all grade  
10 crossings. The total combination wide is about  
11 94,000.

12 Although accidents at public crossings have  
13 declined considerably over the past 20 years, declining  
14 by one third over the past decade alone, the number of  
15 accidents at private crossings has remained  
16 comparatively stable, declining only 10 percent over  
17 the past decade. In most years, the number of

18 fatalities occurring in accidents at private crossings  
19 exceeded the number of on-duty deaths among railroad  
20 employees in all rail operations.

21 Now, the FRA has not entered into this  
22 initiative with any preconceived notions of what  
23 direction we are going to take ultimately. In order to  
24 best guard the information and the input from members  
25 of the public and from members of interested parties,

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1 we have conducted a series of public meetings. As you  
2 can see, they have been scattered across the country.  
3 And we have had good attendance, although occasionally  
4 some bashful participants. And as I have mentioned, we  
5 will have our last one on February 15. You know, I  
6 left off the seven, so it may be hard because it's  
7 going to be February 15, 200. That's a little bit in  
8 the past. Sorry about that. But, yes, it will be next  
9 month.

10 Among the issues that we have discussed in  
11 the public meetings are these here, particularly the  
12 need for standardization, both in science and in  
13 design, various rights and responsibilities, according  
14 to the different parties involved, private crossing  
15 owners and railroads, and what the data might mean.  
16 There are obviously other subject areas. These were  
17 just a principal topic area. And we have quite a few  
18 comments on them. But I don't want to dive into what  
19 all those were because I need to make room for  
20 everybody else, including you all, to have time to

21 discuss things.

22 I will be happy to answer questions.

23 Information from the FRA will be published in our  
24 report based on the discussions that were held. And we  
25 do have a docket in place. As you can see, it's on the

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1 U. S. DOT docket web page. And it is Docket Nos.  
2 23281. So if you are curious about the specifics of  
3 what went on in the public meetings or if you have  
4 comments of your own to contribute, I would like to  
5 encourage you to do so.

6 Thank you.

7 MS. XU: Good afternoon. My name is Guan  
8 Xu. I am the program manager for Railroad Highway  
9 Safety Program and Office of Safety Federal Highway  
10 Administration. When I told my team leader that I was  
11 put on a panel at the TRB to talk about issues  
12 regarding safety at private crossings, he asked me what  
13 are you talking about? We haven't done anything for  
14 private crossings. Our program is limited to public  
15 crossing only. And that's beyond our programmatic  
16 authority. So I said, I just got an idea of what I  
17 want to say. I think I will talk, you know, briefly  
18 about our program. It may be helpful for people to  
19 understand why we have not done anything yet. And, you  
20 know, also to help people to understand the issues and  
21 challenges that we are facing when it comes to private  
22 crossings.

23 The Federal Highway Rail Grade Crossing  
Page 8

24 Safety Program, as most of you already know, is often  
25 referred to as the Section 130 because we got our

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1 regulatory and statutory authority from Section -- from  
2 Title 23 U.S. Code, Section 130, and also from the 23  
3 CFR, Part 646. That part gives us problematic  
4 authority over the railroad highway grade crossings.  
5 And the program is one of the federal aid funding  
6 programs. So it is funded through transportation  
7 bills. The current transportation bill, SAFETEA-LU,  
8 authorized \$220 million per year was authorized from  
9 fiscal year '06 to fiscal year '09 and set aside funds  
10 under the Highway Safety Improvement Program.

11 And Section 130 can be used on installation  
12 and updating the protective devices, such as flashing  
13 lights, gates, and signs. And it is also attributable  
14 to possible public policies. And I will emphasize that  
15 one of the important factors for the Section 130 funds  
16 is the number of public at-grade crossings in each  
17 state. So each state gets their portions based on, you  
18 know, 50 percent of Section 130 funds based on the  
19 number of public crossings.

20 You can see that the current Section 130  
21 program is a federal-aid funding program. And current  
22 regulations on federal-aid programs limits FHWA's  
23 problematic authority to only public grade crossings.  
24 And I think this is one of the reasons why we have not  
25 been successful to take on issues at private



1 crossings. For example, in 1999, FHWA proposed a  
2 section to the MUTCD that contained a definition,  
3 standard, and guidance for traffic control devices at  
4 private crossings. But FHWA eventually had to withdraw  
5 their proposal because the railroad industry objected  
6 to the proposal, challenging FHWA's lack of statutory  
7 authority and the economic impact on the industry. And  
8 a number of states also opposed the inclusion of  
9 private crossing standards due to state laws associated  
10 with their lack of jurisdiction of public roads.

11 So the issue that needs to be addressed  
12 includes the allocation of responsibilities, associated  
13 costs, and appreciated traffic control devices and,  
14 also, what's the appropriate traffic control on these  
15 crossings.

16 As Miriam had talked about, FRA has initiated  
17 a safety inquiry to investigate safety concerns at  
18 private crossings. And FHWA will continue working with  
19 FRA and will take appropriate actions accordingly  
20 depending on the outcomes from the FRA's private  
21 crossing initiative. And that's all I have to say.  
22 Thank you.

23 MR. WORLEY: Good afternoon, I am Paul  
24 Worley. I am director of Engineering & Safety with the  
25 North Carolina Department of Transportation. I was

1 asked to come to be on this panel to talk to you this  
2 afternoon about private railroad crossings. And I want  
3 to talk to you some about our experience and some of  
4 the things we have done in North Carolina. I don't  
5 have any slides here, per se.

6 But you may have heard about our project, the  
7 Sealed Corridor. Following the Sealed Corridor  
8 Project, we realized that we needed to do something at  
9 private crossings because when we had done diagnostics  
10 on our corridor between Raleigh and Charlotte, we  
11 discovered there were many, many private crossings in  
12 various states of maintenance and ownership.

13 Using the Sealed Corridor approach, we used  
14 off-the-shelf technologies different ways. We also  
15 emphasized used corridor diagnostic teams and closures  
16 and alternative access whenever possible. So we took  
17 that same approach when we looked at the private  
18 crossing safety initiatives. We even signaled  
19 crossings with high volumes and some public use as  
20 well.

21 North Carolina is one of the few states to  
22 pursue private crossing safety projects and inventory.  
23 We have done this through a \$1.9 million grant from the  
24 FRA through the Next Generation High-Speed Railway  
25 Program by virtue of North Carolina having a federally

12

1 designated high-speed railway corridor -- the Southeast  
2 high-speed railway corridor.

3 And the approach that we have taken with

4 private crossings, first of all, was to do a  
5 comprehensive diagnostic of all 47 crossings that  
6 remain between Raleigh and Charlotte. And the approach  
7 there was -- you always hear about data; garbage in and  
8 garbage out. We want to make sure we have the most  
9 appropriate inventory data that we could provide and  
10 use them to make decisions. So we were able to fund  
11 that particular study, do that comprehensive  
12 diagnostic. And we found that, you know, we had a lot  
13 of inaccuracies in inventory. We had already very  
14 sparse coverage on private crossings. We also had the  
15 sheer number of private crossings out there to deal  
16 with as well.

17           So it certainly opened the eyes of our  
18 diagnostic teams and our department as we looked at  
19 crossing safety in corridors because in North Carolina  
20 we believe that our best approach has been to use the  
21 corridor diagnostic approach and creating all the  
22 crossings into a particular area, both public and  
23 private.

24           There are many changes that are involved with  
25 private crossings. And it is our point of view. We

13

1 are not representing any one policy. But this is a  
2 unit of government that took on this project and has  
3 completed a good part of it.

4           As far as the challenges go, generally there  
5 are no public funds for private crossings that are out  
6 there because, as Guan said, you cannot use Section 130

7 money. You can use Section 130 money for crossings  
8 that are lightly travelled public roads because you  
9 can't use it for heavily travelled private crossings.  
10 So there is a real dichotomy there and issues that have  
11 to be within the policy.

12 There are varied types of private crossings.  
13 Various folks have their own definitions. What we  
14 looked at were private-use residential, farm,  
15 industrial, plant to plant within an industry, railroad  
16 use, private crossings. We also had public use for  
17 residential development, such as private communities,  
18 business, industrial, recreational, and what's most  
19 important in North Carolina, golf cart crossings.

20 Now, by the time private crossing present  
21 themselves at the state level and make their way to my  
22 office, they are politically charged. And I know this  
23 comes as a shock to you, but often all we can do is  
24 listen. Sometimes it may be a farmer who has driven  
25 all the way to Raleigh and wants someone just to listen

14

1 to them because the railroads are going to close their  
2 private crossing. And that's what we have had to do in  
3 the past. We have tried to listen. We have tried to  
4 understand. We have tried to encourage private  
5 individuals to keep talking with the railroads and try  
6 to negotiate a win-win situation. We try to express  
7 why the railroads need less private crossings and  
8 better protected private crossings.

9 Private agreements and deeds may cover the

10 crossings -- private crossings -- and may involve  
11 multiple parties over multiple years. And it is very  
12 difficult to go back and find one agreement for each  
13 crossing on a particular corridor. So you have to do a  
14 lot of digging and a lot of research, and still you may  
15 not find all the data you are looking for. Resources  
16 in state DOT's to maintain an accurate inventory of  
17 private crossings are not there at the state DOT or  
18 even at the railroad level. We are really trying to  
19 work harder on our public rail crossing inventory. But  
20 inventory and data gathering remains fairly important.  
21 But at the same time, it is something that is  
22 unfortunately not well staffed and well funded.

23           We have also, in addition to looking at the  
24 federally designated high-speed corridor, we also  
25 looked at private crossing as part of the corridor

15

1 studies. We did a commuter line in the Charlotte area  
2 in the private crossings there as far as what could be  
3 closed, what should be improved, what should be  
4 consolidated down to public access crossings. And  
5 through doing this, we have learned that we have got to  
6 partner with the owning and operating railroads to find  
7 comprehensive and innovative approaches.

8           When we started and we hosted the FRA  
9 hearings back earlier late last year in North Carolina,  
10 we talked about some of the issues that faced the  
11 private crossings that faced FRA and faced the states.  
12 And we talked about like, for instance, is the current

13 assignment of responsibility, is that effective. You  
14 know, our thoughts on that was it is not consistent.

15 Each railroad determines what can be done to  
16 improve the safety and manage the risk at private  
17 crossing. They do their own things. We feel there is  
18 a significant need to collect, correct, and update  
19 inventory information into the national and state  
20 inventories.

21 And U.S. DOT through the railroads, through  
22 the states, through rail transit operators should  
23 collaborate to develop a consistent approach, such as  
24 was done with the Crossing Technical Workgroup to  
25 develop that document through the ITE.

16

1 One of the issues was cost -- maintenance  
2 cost, improvement cost. Stakeholders, federal and  
3 state agencies, local governments, transit authorities,  
4 and railroads, and private crossing owners may  
5 eventually need to develop some kind of methodology to  
6 share costs. It can't all be put on the public side.  
7 It can't all be shouldered by the railroads. There is  
8 a need to develop a methodology to share costs  
9 associated, construction and maintenance, based on  
10 local conditions and needs.

11 Considerations are these transit corridors  
12 where there are passenger rail corridors that travel at  
13 higher speeds. Are there quiet zones? Are there  
14 critical inter-modal corridors for rail freight? All  
15 of these have a private and public sector interest as

16 part of a multi-modal transportation system. And  
17 capitalization of future maintenance costs should also  
18 be considered. That was one of the big issues we  
19 had. While we have federal grant funds to pay for the  
20 devices and capital, we did not have ongoing  
21 maintenance. So we worked with railroad to capitalize  
22 maintenance. So that's the approach we considered as  
23 well.

24 Also, disputes. We talk about the farmer  
25 coming to your office or property owner and his concern

17

1 about losing their private crossing. There is no way  
2 to handle these disputes. There is no dispute  
3 resolution process. There needs to be some kind of  
4 model legislation. One of the issues was should the  
5 state or Federal Government assume a higher level of  
6 responsibility. Our feelings were that, first,  
7 national guidelines should be considered for  
8 development by the stakeholders. You have got to get  
9 the stakeholders together to figure out what way to go  
10 with this.

11 We talked about warning device standards.  
12 Should there be national standards for warning devices  
13 at private crossings. And some of this is being done  
14 through the National Conference of Uniform Traffic  
15 Control Devices. And then, finally, how do you  
16 determine a crossing is public purpose and it is  
17 subject to public use. Again, we get back to the  
18 stakeholder. You need to look at commercial crossings

19 versus private crossings. So there are a number of  
20 issues out there as well before you even get to  
21 legislation.

22 That's basically my summary of the issues  
23 that we have. We feel that we had a pretty good level  
24 of success. But it is not to have funding to be able  
25 to go and negotiate with the property owners and buy

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1 alternative access to close any troublesome private  
2 crossing or to be able to signal any crossing that may  
3 lead into a private trailer park with a lot of  
4 residents that need the crossing, too. So that's one  
5 of the luxuries we have had in North Carolina. We feel  
6 like we can make most of the money. And we think that  
7 we could have the beginning of a model that uses the  
8 Diagnostic Team process and designates crossings that  
9 could perhaps be put to use elsewhere in the public  
10 corridors. Thank you.

11 MR. CAMPBELL: Good afternoon. I am Rick  
12 Campbell with Railroad Controls, Limited. And I am  
13 here to speak to you, I guess, on behalf of Rick  
14 Campbell and a number of different groups that I work  
15 with, including the National Committee on Uniform  
16 Traffic Control Devices, where I chair the Railroad and  
17 Light Rail Transit Technical Committee. However, I  
18 want to clarify that a lot of the views that you are  
19 going to hear aren't my own. They are derived from  
20 numerous meetings and organizations that I work with.

21 The issue of private highway rail grade



22 crossings, as you have already begun to develop  
23 ideas -- and certainly a lot of folks in this room are  
24 familiar with -- is a complex issue. It involves the  
25 railroad, a private landowner, and then potentially

19

1 other governmental agencies, such as FRA and FHWA. And  
2 private highway rail grade crossings are unique because  
3 they have largely been considered to be private matters  
4 of interest between the railroad company and the  
5 private landowner. And one of the things is they have  
6 been researched and inventoried. And some railroads  
7 have made significant strides towards inventory of  
8 private highway rail grade crossings. And in many  
9 cases, there are no documents that serve to establish  
10 the relationship between the railroad and the  
11 landowner. And that would include, of course, right of  
12 way over the crossing, maintenance of the crossing, and  
13 other safety issues, such as site distance and traffic  
14 control devices, and who has the responsibility for  
15 those.

16 So from the very basic beginnings of the  
17 private highway rail grade crossings, there's a point  
18 that exists relative to those crossings and the  
19 supporting documentation. In some states as well,  
20 although they are not public crossings, the State  
21 Public Utility Commission or Commerce Commission has  
22 assumed some degree of regulatory authority over  
23 private highway rail grade crossings from an agreement  
24 perspective but ordinarily from a traffic control

25 device perspective, although this is inconsistent

20

1 throughout the United States. However, the lack of  
2 progress made in reducing crashes at private highway  
3 rail grade crossings has led FRA to undertake a series  
4 of information-finding proceedings to solicit comments  
5 from railroads, landowners, state departments of  
6 transportation, and other stakeholders that have an  
7 interest in private highway rail grade crossings to be  
8 able to formulate opinions and ideas and possibly even  
9 rule making on how to address the private highway rail  
10 grade crossing issue.

11 In order to bring some degree of  
12 standardization of private highway rail grade  
13 crossings, one of the first things that's going to have  
14 to be developed is an inventory that's comprehensive on  
15 the private highway rail grade crossing. And,  
16 traditionally, the inventory that has been established  
17 and maintained by the railroads and FRA has been  
18 limited to public highway rail grade crossings. So  
19 this is going to provide another large expansion of the  
20 inventory.

21 In addition, FHWA and FRA are going to have  
22 to work closely to be able to develop a relationship  
23 that will allow establishment, standardized traffic  
24 control devices, and definitions as to private highway  
25 rail grade crossings in order to have an effective

21

1 cooperative effort.

2           At the present time, the manual on uniform  
3 traffic control devices does not specifically define  
4 public roadways separately from private roadways.  
5 MUTCD deals only with traffic control devices on public  
6 roadways or roadways open to public traffic. And  
7 recently FHWA has gone through an amendment and  
8 regulatory process to more clearly define the term open  
9 to public travel. That was handled through 23 CFR 655  
10 and has recently been enacted as a final rule.

11           One of the things, though, that MUTCD lacks  
12 is the definition of other than a public road, which we  
13 do have a definition of a public roadway, that being  
14 any road or street under the jurisdiction of and  
15 maintained by a public agency and open to public  
16 travel. So you see where the open to public travel  
17 comes into this. MUTCD is silent about any other type  
18 of roadway that's not public.

19           In order to try and bring some order to these  
20 different types of crossings because you have already  
21 heard some comments from Paul about classes of  
22 crossings -- and obviously there is a clear need for a  
23 definition of a private roadway. And if we take what  
24 exists in MUTCD today and expand on that, one could  
25 derive that the definition of a private roadway would

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1 be any road or street under the jurisdiction of and  
2 maintained by a private entity and not open to public

3 travel.

4 Well, those are fairly easy to define as well  
5 because that could be a roadway that's closed by a  
6 locked gate, posted with no trespassing signs, or there  
7 is some other type of barrier or gated access that  
8 prohibits the general public from access into this  
9 particular roadway. But one of the problems begins to  
10 surface when we have crossings that serve businesses.  
11 For example, a private roadway that has a highway rail  
12 grade crossing, which allows access to a retail  
13 development or restaurants or other types of commercial  
14 facilities, those that are clearly owned by a private  
15 agency but from the public's perspective are open to  
16 public travel.

17 And for that, I have proposed a third  
18 category and actually presented this to the Edit  
19 Committee of the National Committee on Uniform Traffic  
20 Control Devices. And what I proposed is a category  
21 known as a semi-public public roadway. And that would  
22 be any road or street under the jurisdiction of and  
23 maintained by a public entity and open to public  
24 travel.

25 And this third category allows us then to

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1 classify these crossings, which are clearly on private  
2 rights of way but, from the public's perspective, open  
3 to public travel. Now, this work, of course, will have  
4 to go on within FHWA and MUTCD. But one of the  
5 benefits of this particular category -- and not to

6 duplicate what Paul just talked about. But one of the  
7 points of having a semi-public category is that it  
8 would allow the discretionary use of public funding for  
9 traffic control devices or other types of  
10 improvements. And because this is such a broad  
11 category, I don't know that we are going to be able to  
12 find successfully a definition to cover all  
13 applications.

14 So with MUTCD traffic control devices at  
15 highway rail grade crossings, they are actually  
16 developed through a process using a group of folks  
17 known as a Diagnostic Team. And the definition of a  
18 Diagnostic Team exists in 23 CFR 646. And it is a  
19 group of parties of interest in a highway rail grade  
20 crossing matter. And if we take that Diagnostic Team  
21 concept and expand it to the semi-public crossing  
22 category, we now have a means where the Diagnostic  
23 Team, which would include representation from the  
24 public agency -- applicable public agency. We would  
25 have some means to make a determination as to

24

1 applicability of federal funds and how they might be  
2 applied.

3 For example, a semi-public crossing that  
4 serves a retail development would in probably all  
5 circumstances not be deemed to be one which would be  
6 subject to the use of federal funds because we looked  
7 at a developer or landowner responsible for those  
8 traffic control devices. However, a semi-public

9 crossing that serves -- and I will use Paul's example  
10 of a private trailer park where there are numerous  
11 residents and potentially school buses, which use this  
12 crossing -- may be determined to be in the public's  
13 best interest received some or all federal or public  
14 funding to be able to provide improvements to the  
15 crossing and traffic control devices. So it is the  
16 ability and the discretion of the Diagnostic Team to be  
17 able to on a case-by-case basis make an allocation of  
18 whether the use of federal funding is appropriate.

19           And then finally from FRA's perspective,  
20 there was some mention earlier about a short-line  
21 railroad that exists in south of New Orleans called the  
22 New Orleans Gulf Coast Railroad. And they are  
23 currently fighting a battle with unauthorized private  
24 highway rail grade crossings. And the establishment  
25 through local citizens of the private crossings at will

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1 can literally back up a dump truck and dump asphalt  
2 over the tracks and establish a private crossing  
3 clearly trespassing upon private right of way owned by  
4 the railroad company. However, because there is no  
5 clear-cut regulatory authority over these private  
6 crossings, the state boards have been reluctant to  
7 enforce actions by the railroad to be able to establish  
8 their right of way and protect their right of way from  
9 these illegal private crossings.

10           So as the third leg to the stool, if you  
11 will, I would like to suggest that FRA, as part of

12 their fact-finding process, consider the rule making  
13 which would provide some degree of authority through  
14 FRA or a state department of transportation to regulate  
15 the establishment of private highway rail grade  
16 crossings to provide for the inventory and that that  
17 inventory would include data, including maintenance  
18 responsibility, surface traffic control devices, and  
19 other information, which would be applicable at each  
20 crossing.

21           And as a closing point, I would say that were  
22 the party responsible for maintenance of the devices  
23 fail to maintain the devices or the surface or track  
24 structure or various elements that the crossing would  
25 be subject to closure.

26

1           So I will close with those comments. Like I  
2 say, in closing I want to make the comment that I think  
3 that in the past we have been somewhat misdirected by  
4 the fact that we have looked at ownership of the  
5 roadway as establishing public or private and that the  
6 real issue is not ownership or maintenance of the  
7 roadway itself but the expectation of free access by  
8 the public.

9           Thank you.

10           MR. BROWDER: Good afternoon. I am Bill  
11 Browder from the Association of American Railroads.  
12 And I want to apologize upfront to those of you that  
13 have had to listen to my presentation at least one or  
14 more times before because a lot of what I will talk

15 about is material that AAR and myself have presented in  
16 the past. First, let me tell you a little bit about  
17 the Association of American Railroads. It is an old  
18 established organization created back in 1888 after the  
19 war for the primary purpose of standards and  
20 practices.

21           And the first standard that we established  
22 and still use today is standard time. We were the  
23 inventors of standard time just like Al Gore says he's  
24 the inventor of the Internet. But we put it all  
25 together back in 1888 because everybody had a one- or

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1 two-minute's difference in the time that they kept in  
2 every locality around that country in those days. And  
3 so we created the time zones.

4           Now, we don't take any credit for Daylight  
5 Savings Time. Mark on your calendar March 11 because  
6 we will be going back to that before we ever see the  
7 sun again in Washington, D.C. or we get away from the  
8 snow. But that's your U.S. Congress at work.

9           More about the AAR. The AAR still is a  
10 standards practices organization today maintaining a  
11 number of different standards. We also operate for the  
12 Federal Railroad Administration the Testing Center in  
13 Colorado. And it was premier Testing Center in the  
14 world. And folks from all around the world come and  
15 use the facilities there for a number of different  
16 venues that exist. We also have another profit-making  
17 subsidiary in North Carolina outside of Paul's hometown



18 of Raleigh there that is responsible for the  
19 interchange documents that we are involved in.

20 AAR is an association of the members in North  
21 America of the Class One railroads and some other  
22 folks. And we basically represent them. And the only  
23 costs that we have, unlike the Federal Railroads  
24 Administration command and control authority through  
25 the code of federal regulation, is interchange. We

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1 don't have any more control over any of our members  
2 other than interchange. You know, the rails out there  
3 again after the war are 56 and half inches apart. And  
4 if you want to run them on those rails, you have got to  
5 have your equipment 56 and half inches apart. And it  
6 goes downhill from there as far as standards are  
7 concerned, but we have managed to do that since 1888.  
8 And it has developed a long and lasting relationship by  
9 private companies who are in business to make money for  
10 their stockholders, for their shareholders.

11 And so as such, AAR has many concerns about  
12 any issue that the government may be interested in  
13 addressing. I think there isn't a person in this room  
14 or organization that isn't interested in the common  
15 objective of safety at highway rail grade crossings.

16 To AAR -- and the views that I will express,  
17 especially since they are being transcribed, will be my  
18 own and not the AAR's espoused position because we have  
19 quite a few members who have different views concerning  
20 these particular issues. And I am sure if you talked

21 to them individually and they have come to these public  
22 sessions, they will be more than happy to provide  
23 comments upon the issues from their individual  
24 perspectives. I will give you a few things, though,  
25 that do apply.

29

1 First of all, at any highway rail grade  
2 crossing, railroads derive absolutely no benefit from  
3 those crossings being there. And that's stated in 23  
4 CFR distinctly in the highway section of the CFR. And  
5 that's a very important thing to us. Another important  
6 thing to the railroads is that we are not the experts  
7 on treatments at highway rail grade crossings. The  
8 Highway Authority is the expert. Now, we are involved  
9 in private railroad crossing by default in the issue of  
10 treatments at grade crossings. But, again, we have a  
11 lot of concerns about those issues, especially as I  
12 mentioned in that it affects our stockholders. And  
13 these are expensive with the 93,000 private crossings  
14 and add to it the 150-sum public crossings that are out  
15 there today. Railroads in the United States spend over  
16 half a billion dollars a year on highway rail grade  
17 crossings, \$500 million plus in maintenance, upkeep,  
18 liability, and activities that go on at grade  
19 crossings.

20 We don't have any large force of individuals  
21 out there to design and promote. We have got to do it  
22 within our own engineering departments or contract  
23 people to do that. The maintenance that we have to do

24 to CFR Part 234 requires us to make an on-site  
25 inspection of every active warning device crossing.

30

1 And there are over 65,000 of those out there in the  
2 United States. And you can imagine the cost of sending  
3 an individual to those crossings. Only about a  
4 thousand of the 93,000 private crossings have active  
5 warning devices. So they are few and far between. And  
6 most of them happen to be there because of the railroad  
7 insisting with everyone from state DOT's to private  
8 industries that they be installed for safety sake at  
9 crossings. I don't think that anything that comes out  
10 of hearings and studies will show that there is a  
11 one-size-fits-all solution with the number of  
12 stakeholders that we have that are involved in this  
13 issue.

14 You can already tell from those that are  
15 involved that we have to deal with 50 different state  
16 DOT's even though we get 120 through the 130 program to  
17 administer the programs that we have. Now, we have  
18 very established relationships, but different things  
19 work in different places. If you look at the Docket  
20 23281 in case you missed it the first time around in  
21 the hearing, you will see a little short-line railroad  
22 down in Louisiana. I mean, that's a deposition in the  
23 making for you lawyers out there of what happens at  
24 private rail crossings. And that includes such things  
25 as folks in the good parishes down there going out and

1 dumping a load of asphalt across their right of way and  
2 identifying that as a private highway rail grade  
3 crossing. So it is a fertile field as far as issued by  
4 the way that railroad took it to court. They have been  
5 to federal court twice and had been thrown out. And  
6 they spent about \$700,000 fighting these innumerable  
7 illegal crossings that they say exists down there.

8           But there are some common things that we can  
9 talk about in terms of safety because safety is first,  
10 always has been and always will be. And when I say  
11 safety, first, there is safety of our employees. We  
12 don't get anything out of those crossings, but we get  
13 our employees hurt, we get them killed, we get  
14 derailments. We get all kinds of issues that occur.  
15 UPS and FedEx, two of our best customers, don't care  
16 that we have a crossing accident at a private crossing  
17 some place on the right of way that delays the delivery  
18 of their traffic. And their customers are calling into  
19 the FedEx people wanting to know where their materials  
20 are. And so are our other industry customers, whether  
21 they are J.C. Penney and your sneakers that you are  
22 getting or they are a plant or a Chevrolet someplace  
23 that needs a widget to complete an auto on an assembly  
24 line.

25           So those are factors that we are interested

1 in. And, again, it is an important thing to our  
2 operations, our equipment, our employees, and safety  
3 overall. There are a number of things that have been  
4 done. I commend Rick's suggestion in terms of  
5 semi-public access -- semi-public crossing for those  
6 that have public access. I don't think there is any  
7 one-size-fits-all solution, as I said. And I think,  
8 quite frankly, I have got to commend the FRA for taking  
9 the initiative to at least get the process going on the  
10 issue.

11 So with that, I will finish and pass it along  
12 to the other side of the pond. And we are happy to  
13 have Aidan here to talk about where all the action is.

14 MR. NELSON: Thank you. I stood in this room  
15 about five years ago when we first talked about  
16 managing risk at private crossings. So I thought,  
17 well, however the presentation runs, I will just give  
18 some thoughts. And the thoughts start right back in  
19 the middle of the 19th century because private  
20 crossings were the price that railways had to pay to  
21 get their line of routes approved.

22 And for every crossing that was created, it  
23 was public. There were very distinct obligations  
24 placed on the railway. If it was private, there were  
25 pretty generic and often discreet obligations placed on

33

1 the railway. But for every crossing that was private  
2 back in 1850, it was an agreed, main, authorized user.

3 So the first issue is trying to keep tabs of

4 the succession from the original authorized user or  
5 users if more than one property was accessed a private  
6 crossing. It's a considerable challenge to the  
7 railway. And in Britain, it has become a far greater  
8 challenge in recent years with the planning rules being  
9 altered to permit development and agricultural  
10 properties to encourage employment in rural areas. And  
11 that's actually moved this quite a long way from a  
12 single farmer and his family and those associated with  
13 his business.

14 We have a situation, which the authorized  
15 user is supposedly responsible for ensuring that his  
16 visitors understand the rules of engagement for the  
17 private-level crossing. In practice, most farmers will  
18 say they do it but don't do anything. And indeed, with  
19 a move from farmers having their own hired hands to  
20 agricultural contracting, we have moved even further  
21 from the idea that the authorized user knows who's  
22 coming to work on his land.

23 We have recently had an accident in which  
24 there were a gang of immigrants from Britain, some  
25 illegal, none of which had an adequate command of

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1 English to understand the instructions for the use of  
2 the crossing.

3 So in certain parts of the country, we are  
4 now producing information leaflets about the safe use  
5 of private crossings in a multitude of languages from  
6 Polish to Iraqi and Arabic. So we have got that.

7 We have a second language in parts of  
8 Britain -- Welsh. And that gives us a complication  
9 because you have in Wales signs in both English and  
10 Welsh. But the longer you make the signs, the less  
11 people pay attention to them, particularly if Welsh  
12 comes first, which hardly anyone uses it, other than  
13 officially. That's one of the obligations on the  
14 railway is to sign the crossing with the arrangements  
15 of its use. And that takes the form of a sign to  
16 indicate that it is private, a statement that the  
17 penalty for abusing the crossing which, in most cases,  
18 is a function of it being five-bar gate on either side  
19 of the railway because the railway has an obligation to  
20 fence itself. And that was a continuous fence. So at  
21 each private crossing you have a five-bar gate on  
22 either side.

23 It is not the safest form of railroad  
24 crossing because if you are going to use it properly,  
25 you first get off your vehicle, you open the near-side

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1 gate. You walk across the grade crossing to open the  
2 far-side gate. You remember to look again, and you  
3 come back to get to your vehicle. You mount your  
4 vehicle, take it across your third crossing of the  
5 railway, you get off. You remember to look again, you  
6 walk back over, you close the gate. You come back over  
7 for the fifth time and close the other gate.

8 And if you are the mailman and you are only  
9 going to the farm to deliver the mail, what do you do?

10 You leave the gates open for your return. And you  
11 think, well, it is Friday, the refuse man comes. So  
12 you leave the gates open again. And what you go from  
13 is a passive user work crossing with a distinct barrier  
14 to indicate the presence of the railway to a passive  
15 open crossing.

16 We all know what happens on passive open  
17 crossings. You actually increase the risk. Now, we  
18 have been, some would say, a little stupid in Britain  
19 where we have high use of property crossings. We have  
20 put in miniature warning lights to indicate whether the  
21 line is clear or there is a train coming. And that  
22 just converts it to an active open crossing. And the  
23 idea of returning the barrier and closing the gate is  
24 even further from the user's mind.

25 So we have got a dilemma. What are we going

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1 with regards to the dilemma? Well, first, we are  
2 trying to close the things. We have been reasonably  
3 successful. But most of the farmers and most of our  
4 crossings are in rural areas. Our private crossings  
5 are worked out. If the railway wants to close the  
6 train crossing and it wants to close a lot of them, it  
7 might be paying some reasonable sums of money. But in  
8 some cases, the railway has paid reasonable sums of  
9 money to close it. In others, it has become  
10 extortion. And they have become ransom trips. And I  
11 think whatever you do in the way of legislation, you  
12 have got to take the ransom element out of it. And you



13 have got to promote rational armistices.

14 I have been particularly impressed by what  
15 the Irish are doing. And they have just taken a very  
16 radical look and sought to reduce the number of private  
17 crossings so that you are buying the land from farmers  
18 who have land on both sides of the railway and selling  
19 the land to other farmers. So they have consolidated  
20 the holding on one side of the railway and removed the  
21 need for the crossings.

22 They have also recognized that you can  
23 separate an agricultural crossing for far less money  
24 than railway engineers would have you believe. They  
25 want you to build something appropriate for the

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1 separation of the public highway.

2 So if all you have got is to get cattle from  
3 one side to the other, you want something cattle sized.  
4 You don't want to take the biggest truck you can  
5 imagine underneath the railway. If you would go over  
6 the railway and all you have got to do is to round up  
7 the cattle and bring them back across, they can go up  
8 around a steep of gradients and you can build suitable  
9 bridges. So they have actually gone quite a long way  
10 into the British standard of having a solution.

11 The dilemma we have is when something becomes  
12 public. You can blame the Canadians because of this  
13 because their first prime minister was born in  
14 Scotland. And it was some years ago that the local  
15 authority put a sign at the end of the farmer's lane

16 pointing out the birthplace -- a tourist sign pointing  
17 out the birthplace of the first Canadian prime  
18 minister. That was seen as an invitation to public  
19 use.

20 Common sense did prevail, and I think the  
21 sign was taken down because the consequence of going to  
22 something that is declared public is that you have to  
23 upgrade the crossing to a public space crossing, which  
24 in Britain is usually, at the very least, an active  
25 open crossing. All the costs would fall to the

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1 railway. So what the railway has become is pretty  
2 expert at challenging all of these indications of a  
3 public invitation to cross or where there is an  
4 established public invitation. But it is clearly a  
5 private right of way to reinforcing the private  
6 right-of-way dimension.

7 Sometimes the industry is forced into putting  
8 staff out on Saturdays and the holiday season because  
9 they give access to the camp sites. So everyone who  
10 uses the crossing on the Saturday when they are coming  
11 into camp for the week gets a leaflet advising them of  
12 the arrangements.

13 But that's done in partnership between the  
14 railway and the landowners. The biggest issue for me  
15 in relation to private crossings is that we know quite  
16 a lot about the risk profile. We know that on average  
17 the vehicles that use the crossings are bigger than  
18 most of our rural public crossings, plus farm machinery

19 on average is pretty heavy. Therefore, the potential  
20 for a passenger train derailment is increased when  
21 compared to the ordinary car.

22 We know that regular users of grade crossings  
23 on work-related journeys are the ones who are most  
24 likely to have an accident. And that's a pretty  
25 central characteristic of the access of the private

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1 level crossings.

2 So if we are going to be effective there, we  
3 have got to target the employers who are not usually  
4 the authorized users at the crossings. That's  
5 something that falls to the railway and something  
6 that's done to varying degrees of effectiveness.

7 We have got one other dimension, which I  
8 think is particularly important. We have a  
9 nonstatutory planning guidance that says the planning  
10 authority must consult with -- sorry, should consult  
11 with the railway on any development likely to have a  
12 material impact on the use of the level crossing.

13 We believe that should be a mandatory  
14 statutory obligation to consult the railway because if  
15 we actually got that consultation going first, we might  
16 actually get some sense in the planning approvals,  
17 which would force the hand of the beneficiary for the  
18 planning approval to work with the railway to create an  
19 alternative access.

20 So I think that the possible quick win for us  
21 is toughening the planning regime to create a statutory

22 obligation to consult and, in light of that, to use  
23 that as leverage to promote alternative access for  
24 developments of the road. Thank you.

25 THE MODERATOR: I would like to thank the

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1 panel one last time. And we will open up for questions  
2 after that. Thank you very much. Since the term rules  
3 of engagement were used by Aidan in his last speech, I  
4 would just like to express again the need for -- if you  
5 intend to make a comment or ask a question of the  
6 panel -- and it could be separate entities on the panel  
7 or the whole panel -- please step up to the mic, state  
8 your name, spell your last name for the stenographer,  
9 and ask your question and don't speak too quickly.

10 So with that, is there anybody in the  
11 audience that would like to make a statement?

12 AUDIENCE ATTENDEE: Hi, I am Rich Brown with  
13 TransCo Industries. That's B-r-o-w-n. And my question  
14 is for Rick Campbell. Rick, the 94,000 population of  
15 private crossings, what percentage of those crossings  
16 are semi-public as you defined semi-public?

17 MR. CAMPBELL: Rich, we have had some  
18 discussion about that. And because private crossings  
19 are not currently inventoried, there is no real way to  
20 know. However, there has been a group -- well, Tom is  
21 going to come up and tell us about it. Maybe I should  
22 say not inventoried to the point that we have the types  
23 of data that we have at public crossings in terms of

24 usage of ADT and surface and warning devices. We just  
25 don't have the degree of information. It is hard to

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1 say.

2           However, some folks, I guess, that would be  
3 considered experts or extremely knowledgeable in the  
4 field can talk. And we feel that the number is not  
5 tremendously large. It's maybe in the neighborhood of  
6 10 percent or potentially less than all of the private  
7 highway rail grade crossings. Sorry, Tom, if I said  
8 that wrong.

9           AUDIENCE ATTENDEE: Tom Woll, W-o-l-l,  
10 Federal Air Administration. Most people know me.  
11 Yeah, I have got to correct that. Private crossings  
12 are in the inventory, okay. So that's a misstatement.  
13 You are correct that we don't have ADT's in some of the  
14 other information. Sometimes the railroads will  
15 provide the train counts on that. But somebody has got  
16 to go out there and count those automobiles or whatever  
17 is going to cross that. And the question is, Who is  
18 going to do it? Obviously, the states are not going to  
19 do it.

20           There is a category for whether or not there  
21 is public access in the inventory. We changed that in  
22 November of 1999. However, I don't think that it has  
23 been updated by all of the various states and  
24 railroads. In fact, unfortunately, it was mentioned  
25 earlier in one of the other sessions. There are 20

1 states. And some of them -- I won't say that they are  
2 present here -- have not updated their inventory in the  
3 last six years and haven't initiated any updates. So  
4 if we could get that -- they probably have the data.  
5 We would just like for them to send it to us. So  
6 that's where the big problem is. And that's why the  
7 inventory, in some cases, is not up to date.

8 AUDIENCE ATTENDEE: My name is Gary Drouin,  
9 D-r-o-u-i-n, and I am with Transport Canada. I guess  
10 my first comment goes to Aidan. And my question is,  
11 was that sign in both Canadian official languages,  
12 French and English, because maybe that's what caused  
13 the confusion and not necessarily for the private or  
14 public voracity. I am just joking.

15 My real question goes to Rick. In the  
16 semi-public crossing if -- well, say, there's a  
17 trucking company and there's trucks of course going  
18 in -- delivery trucks going in and maybe a few  
19 customers like FedEx and so on and so forth. Would you  
20 consider that as a private crossing or semi-private  
21 crossing?

22 MR. CAMPBELL: As part of the proposed usage,  
23 we would consider that to be a private crossing because  
24 it is a private business, which has control over its  
25 employees. And then although you do have access by

1 drivers, such as FedEx or UPS or other types of  
2 delivery, all types of delivery, those are generally  
3 drivers that possess a commercial driver's license and  
4 have had additional training, which includes additional  
5 safety training in highway rail grade crossings. And  
6 clearly, that would be -- if that crossing was  
7 exclusively used to service that private business, if  
8 you will, that you would look to the private business  
9 to make any funding to support active or improved  
10 traffic control devices, which even to this day they  
11 could freely do. And, in fact, many private industrial  
12 facilities, especially if there are hazardous materials  
13 and things, actually do have active traffic control  
14 devices at those private crossings.

15 AUDIENCE ATTENDEE: Okay. Thank you.

16 MR. BROWDER: I want to go back to  
17 Mr. Drouin's inquiry about private grade crossings.  
18 And as I stated in the New Orleans public hearing for  
19 the 93 or 94,000 that are out there, the resource for  
20 most of those in the FRA inventory are the railroads.  
21 They are the people that are doing all of the work and  
22 submitting the data -- limited amount of data that Tom  
23 Woll requires. Again, we are a private company. We  
24 don't derive any benefit. We don't see an incredible  
25 safety benefit to providing this information for public

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1 purposes.

2 As a matter of fact, some of our members  
3 choose to have fairly extensive information on their

4 private inventories. But, again, that's a matter of  
5 choice as far as the stockholders of that company are  
6 concerned. And unless we could identify any kind of  
7 significant safety value to us to collecting and  
8 examining that, right now it is a burden on our daily  
9 operations to collect and provide this information to  
10 the FRA. Thank you.

11 AUDIENCE ATTENDEE: Maurice Rached,  
12 R-a-c-h-e-d. This question is for Miriam Kloeppel.  
13 Miriam, how do we deal with situations where the  
14 crossing is owned by an authority that believes that  
15 the crossing is private and does not -- and is not  
16 subject to FRA regulations?

17 MS. KLOEPPEL: Are you talking something like  
18 a park or something that is apparently a private road  
19 but it has public use like access to a municipal dump?

20 AUDIENCE ATTENDEE: That's a good example.

21 MS. KLOEPPEL: Those are among the things  
22 that have to be considered. But at the moment, if it  
23 is in our inventory as private crossing, that's all we  
24 know about it.

25 AUDIENCE ATTENDEE: Okay. So you are not

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1 taking any action in that regard at the present?

2 MS. KLOEPPEL: Well, I guess ultimately we  
3 may. But, as I said, this whole effort is to determine  
4 what kind of action we should take for any private  
5 crossing. This is just one possible category of many.

6 AUDIENCE ATTENDEE: Because I agree with Rick



7 and the other panelists when they indicated that the  
8 motorist doesn't know if it's a roadway open to the  
9 public like the motorist on a public roadway and  
10 crossing unless it is specifically assigned and gated  
11 and identified. Okay. Thank you.

12 MS. KLOEPPEL: Thank you.

13 THE MODERATOR: Aidan brought a different  
14 perspective to us on how Britain deals with private  
15 crossings. I was wondering if I could ask Mr. Poi chuk  
16 to describe the Canadian practice of private crossings  
17 and classification for us. Mr. Poi chuk.

18 AUDIENCE ATTENDEE: Phil Poi chuk,  
19 P-o-i -c-h-u-k, Transport Canada. Currently, our  
20 standards are departing from the traditional  
21 definition. In Canada, traditionally we had private  
22 crossings in two categories -- basically statutory and  
23 nonstatutory. They are also referred to as by right or  
24 by grace. By right being where the railway in the late  
25 1800's severed land and therefore had a right

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1 to -- had the obligation to provide the crossing and,  
2 in fact, maintain it. By grace was where subsequently  
3 a landowner who hadn't had his land severed originally  
4 would need a crossing for other purposes. And then  
5 they would be -- they would enter an agreement with the  
6 railway and usually pay the cost. And, in fact, that  
7 was the by grace one.

8 It basically dealt more with rights and  
9 money, i.e., the maintenance of it, than it did with

10 the safety responsibility. Our new grade crossing  
11 standards, which I believe Anya and I believe Steve  
12 actually asked me to speak about tomorrow, gets away  
13 from traditional definitions relative to ownership.  
14 And, in fact, in our grade crossing manual RTD 10, as  
15 it is called, we don't use the word public or private.  
16 We get away from that distinction. And we now require  
17 safety amenities based on whether or not it is  
18 restricted or unrestricted for public use.

19 THE MODERATOR: Thank you, Phil.

20 Does the panel have any comments on the  
21 Canadian description and classification?

22 MS. KLOEPPEL: I think I think they are very  
23 interesting. But it is an interesting different way of  
24 looking at categorization of the crossing.

25 AUDIENCE ATTENDEE: Jim Burnett, former

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1 chairman of the NTSB. What kind of records have been  
2 kept of the meetings so far and held in the FRA public  
3 meeting series? Are there transcripts of those  
4 meetings?

5 MS. KLOEPPEL: Yes, sir, there are  
6 transcripts. And I have been put them up on our -- in  
7 our docket as best as I can.

8 AUDIENCE ATTENDEE: Is the docket available  
9 on the Internet?

10 MS. KLOEPPEL: Yes, it's actually on our  
11 docket server.

12 THE MODERATOR: If you don't have one of

13 these brochures yet, on the back is the docket number.  
14 And if you go to the DMS system, if you type in the  
15 last five digits, it will take you right to the  
16 docket. And it will start with the oldest submission.  
17 And there is a little button that you can hit that says  
18 reverse order so you see the newest submission first.  
19 MR. BROWDER: There are 21 items on the  
20 docket as of yesterday on 23281 that most of them  
21 concern. There are two of the transcripts that are  
22 already up there that she is talking about.  
23 MR. BURNETT: Thank you.  
24 MR. BROWDER: Don't put the year in when you  
25 search.

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1 THE MODERATOR: Okay. I have a question. I  
2 have attended all four of the last public hearings.  
3 And I have heard the panel's opinions this afternoon on  
4 the safety of private crossings. And in order to find  
5 a solution, we need to try and push the envelope to  
6 determine what options do we have to move forward.  
7 And I would like to ask the panel their  
8 opinions on if there were regulations or some guidance  
9 or standards that were developed for design  
10 characteristics, should that effort come from the  
11 states that administer and possibly have legislation  
12 over private crossings or should it come from a  
13 DOT-wide task force that includes not only the FRA, the  
14 FHWA, but stakeholders like the mortar carriers, the  
15 Transit Administration, or should it be left to the

16 locals to determine through their Diagnostic Teams the  
17 appropriate approaches?

18 MR. WORLEY: What I will say is the first  
19 thing you need is money. There needs to be some more  
20 pilot projects, I think, around the country to get some  
21 experience with different approaches for private  
22 crossings, be it public or private partnerships for  
23 closures, for how to go about equipping with warning  
24 devices or other treatments. So that would be the  
25 first positive step -- to get some experience. I think

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1 ultimately you have got to look at a diagnostic team  
2 process that's headed up by the authority that has the  
3 experience in the states we are involved in. And that  
4 would be the state DOT's right now. And that's my  
5 opinion. And it is quite biased because, you know, you  
6 look at it and see you have a good idea of how to  
7 resolve things based on experience and what has to be  
8 accomplished. So I would say that would be the start  
9 because I would hate to see us get into something where  
10 you constantly try to write a lot of policy and write a  
11 lot of specifications without a lot of real world  
12 experience out there to draw from.

13 And, also, by having private crossings and  
14 real world experience, you certainly build the support  
15 toward doing something. So I think we are clearly  
16 moving towards doing something. It is just difficult.  
17 I think it also depends on money, which there is not a  
18 lot.

19 MR. CAMPBELL: I think I might add to that,  
20 too. I will just say that I agree with Paul because  
21 the state agency is the one that really has the clear  
22 picture of crossing safety issues within their  
23 jurisdictions. And that's exactly why that's included  
24 as a part of my proposal that the Diagnostic Team  
25 ultimately has say-so in terms of the crossing and what

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1 might be done there.

2 Also, of course, as many as you know, there  
3 are some pretty interesting issues in Section 409 that  
4 provides some protection for the Diagnostic Team in  
5 terms of isolating their decisions. And there is  
6 certainly a large degree of logic that maintains that  
7 protection that exists. However, there are some things  
8 that the Diagnostic Team could have some latitude in  
9 where, for example, it might be possible to take a  
10 number of private crossings. In other words, a private  
11 driveway that starts at a single-family home and to  
12 consolidate those crossings. In other words, take  
13 those five or six driveways and build a connecting  
14 roadway and then a single crossing to serve that. And  
15 then in that case convert those multiple private  
16 crossings into a single semi-public crossing. And that  
17 may very well be, in that case, a good use of public  
18 funding. And it may also be as part of that process  
19 that some part of those costs are allocated or assessed  
20 to the landowners.

21 And, again, that would be within the

22 Diagnostic Team's jurisdiction to decide if public  
23 funds are to be used and, if so, what percentage and if  
24 the landowner should share in the burden of improvement  
25 costs as well. So, again, that's why I support that

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1 the local Diagnostic Team really can deal with all of  
2 the individual issues and address them on site and then  
3 ultimately handle the deal through the DOT if there is  
4 one.

5 MS. XU: Well, I agree with what Paul and  
6 Rick just said. Basically, you know, states should  
7 have something they demand from, you know, the state  
8 level. But I would like to say that at the point that  
9 federal funding is involved, then we do need some  
10 federal-level guidelines in the general terms. There's  
11 all kind of federal guidelines. You know, they are all  
12 in general. And the state has a lot -- the states have  
13 a lot of power to define details. And so, you know, we  
14 would like to have some kind of guidelines in terms of  
15 how to initiate the process.

16 MS. KLOEPEL: I just wanted to agree  
17 effectively with what Guan Xu gave. What I have heard  
18 in various meetings suggests that if there is a federal  
19 involvement, it should be something to do with  
20 establishing a process. Now, I won't say that it is  
21 the specific direction the FRA will go, but it is  
22 consistent with what we have been hearing from a number  
23 of meetings that participants in the meetings have a  
24 sense that there is no process and there is even no way

25 to begin attacking the problem. So one reasonable

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1 federal way to be involved is to help with the  
2 development of that process and leave in the hands of  
3 the people who know best what they are doing the  
4 factual decision-making about individual funds, state,  
5 and local Diagnostic Teams.

6 MR. BROWDER: I hope you don't mind me saying  
7 this, but it really scares me because I think it shows  
8 a lack of understanding and naivete concerning the  
9 issues, especially after we have been to the public  
10 hearings about the seriousness of the issue itself. I  
11 would grant, the last thing the railroads want is  
12 probably regulation. But it's one more step down the  
13 line. It's something that opens up regulation to more  
14 entities out there, such as states, municipalities, and  
15 people like that. The current system for public  
16 crossings is a mess. We shot ourselves on the  
17 railroad -- shot ourselves in the foot when we agreed  
18 to the 130 plan.

19 Finally, I mentioned the amount of money it  
20 costs us in maintenance. That continues to go up every  
21 year. We are scared to death that that might continue  
22 within the private sector. And when I hear you talking  
23 about opening up some kind of a process to state and  
24 local governments to interface with private companies  
25 that don't have large staffs to entertain regulation, I

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1 have concern.

2 Now, having said that, let me say I think  
3 there are some constructive steps that can be done.  
4 And I don't disagree about what Miriam and Guan said  
5 about things that can proactively address Paul's  
6 comments about pilot projects. I can tell you one  
7 thing that I think the railroads agree on and may be  
8 interested in having whatever the Federal Government  
9 entity is that's responsible for. It is to allow us to  
10 get agreements on all private crossings. We can't even  
11 do that now.

12 And one thing that would help with the  
13 administration of private crossings would be that,  
14 although we are not the experts on highway traffic  
15 control devices, certainly if there was an agreement  
16 that was required of the individual stakeholders,  
17 namely, the railroad and the highway user, that that  
18 would be, like a couple thousand lawyers tied to the  
19 bottom of the ocean, a good start. Thank you.

20 THE MODERATOR: Thank you, Bill.

21 MR. NELSON: I think the important thing for  
22 me is that we don't make problems that don't exist.  
23 And we have problems with private crossings. But very  
24 many private crossings are well run. The landowners  
25 exercise their responsibilities and they work the

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1 railway. And I think that while you have got something  
2 that works, just leave it.



3           When you haven't got things that work, it is  
4 usually because, as a matter of public policy,  
5 developments have been allowed on one side of the  
6 railway without taking account of the impact on the  
7 railway.

8           If it is public policy for the development,  
9 it is allowed. And once you create that sort of  
10 development, you should avoid the issue of agreements.  
11 And it should be a new form of agreement to recognize  
12 the new circumstances. And the greater burden is on  
13 those who benefit from the development.

14           AUDIENCE ATTENDEE: My name is Ray Lewis,  
15 L-e-w-i-s. I am with the Division of Highways in West  
16 Virginia. We are one of about six or seven states, I  
17 think, that has more private crossings than public  
18 crossings. And that's not a distinction we would have  
19 sought. You said something there that really struck a  
20 cord with me as far as managing the crossings.

21           First of all, in my opinion, out of out 1900  
22 private crossings, probably 1750 of them will never  
23 cause of us any trouble except at random because they  
24 tend to be farm field crossings. They tend to be  
25 individual residential crossings. They go to one or

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1 two dwellings. There is not any room for expansion,  
2 say, between the railroad and the river. And you just  
3 have to make sure that the responsibility to carry out  
4 the farm doesn't do something too close to the tracks  
5 or the railroad and at least keep the roads passable

6 for whatever usage. And that may have been a crossing  
7 for agricultural use or you may need to add an asphalt  
8 surface for the residents going in and out several  
9 times a day.

10 The second thing is that access across the  
11 tracks. When we have a highway system we can't  
12 control, we can't keep people from coming onto our  
13 highway system. Anybody has a right to come on our  
14 highway system, but we can set the condition under  
15 which they do so. And we require driveway permits.  
16 And we have a fairly extensive manual for driveway  
17 permits. If that driveway is a new driveway crossing  
18 the tracks or it's a change in use of the land to cross  
19 the tracks as an existing driveway, then our rules and  
20 regulations require the landowner to get a new permit  
21 to reflect what's actually going to happen there. And  
22 if there is a railroad involved, we do ask for an  
23 agreement. Even if the crossing is in there by deed,  
24 we feel like we have the right to ask for an  
25 agreement.

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1 One of the big problems with private  
2 crossings is the records are very difficult to locate.  
3 The problem really started to get out of hand on  
4 July 4, 1828, when Charles Carroll was the cornerstone  
5 of -- but there are different records on different  
6 crossings and everything is kept different ways by  
7 different railroads. Some are kept by evaluation  
8 statements. And you can find a list of all the

9 agreements on the sheets on evaluation sheets. Some of  
10 them are kept in separate files in different offices.  
11 So it makes it a real interesting search to find out  
12 exactly how a crossing got there. I think from what I  
13 have seen, one of the bigger problems with private  
14 crossings is a sudden change in use of the land.

15 I had an experience one time when somebody  
16 from the Brotherhood of Locomotives Union called and  
17 said they were real upset about a private crossing.  
18 And I knew where the crossing was. I said, Well, what  
19 is the problem? I said, You know, one farmer goes in  
20 and out of there. He says, No, no, our guy is on a  
21 lumber truck. And I go, What lumber truck? Well, one  
22 was carrying lumber up there to that property that had  
23 been subsidized and was getting 120 houses built on  
24 it. So that translates to about a thousand vehicles a  
25 day crossing the tracks at that point. So possibly

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1 that will start some discussion. Thank you.

2 AUDIENCE ATTENDEE: I am John Henikchen, and  
3 my comments are for the panel. I would like to hear  
4 what you have in response to what I have to ask less  
5 Bill of course. Should regulations and standards or  
6 guidance be developed, how will those regulations and  
7 guidance standards be interfaced with the existing  
8 agreements -- private agreements that we have between  
9 the railroad and the landowner? In other words, will  
10 your regulations supercede that private agreement?

11 MS. KLOEPPEL: I hate to disappoint you, but  
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12 I have to say that I think that's one of those things  
13 that is yet to be determined. If we were to develop  
14 regulations, that is one of the factors that we would  
15 have to consider. But we would certainly have to be  
16 sensitive to that as an issue.

17 MS. XU: I don't have any comment. I think  
18 before I say anything, I will have to ask our lawyers.

19 AUDIENCE ATTENDEE: If we are going to leave  
20 it up to the lawyers, then I guess we don't have to  
21 worry about this issue. So that will be another 10  
22 years and I will be retired.

23 MR. NELSON: Last Friday before I -- sorry,  
24 Thursday before I came over here, I signed the RSVP  
25 response to a consultation from our regulator about

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1 what should be in their standards, their principal  
2 documents for level crossings in the ground. The view  
3 of RSVP is that there should be a statutory defined  
4 user interface for public highway crossings, public  
5 pedestrian crossings, and private level crossings. And  
6 beyond that user interface, everything else should be  
7 dealt with within the standards of the railroad  
8 concerned.

9 MR. WORLEY: One other thing to consider is  
10 if you have got some of those agreements out there and  
11 some of the crossings are based in deeds. And if  
12 someone has a right to that crossing in the deed, you  
13 get into a situation where you can't take their  
14 property. You can't take it. So you then have to

15 negotiate. So it comes back down to -- I get back into  
16 having that pilot program and getting the experience.  
17 You learn what are the different scenarios when you can  
18 negotiate to try to close and try to eliminate the  
19 crossings. It is kind of like the old politician back  
20 in North Carolina that once told me. He said, You have  
21 got to have something in the sack. You have got to  
22 talk to these folks. You have got to have something in  
23 the sack. You have got to try to negotiate with them.  
24 And I think that's what you are going to have to do.

25 THE MODERATOR: I would like to get back to

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1 Ray Lewis. Ray Lewis represents a state  
2 representative. And as shown in the latest FRA  
3 compilation of state laws, there are only 32 -- 22  
4 states that currently have statutes dealing with  
5 private crossings. Now, what we heard from Rick and  
6 from Paul, with Bill's agreement, is that it should be  
7 at a local level. How can the Federal Government now  
8 step in to help you that have statutes and those that  
9 don't actually be able to manage the safety of private  
10 crossings?

11 AUDIENCE ATTENDEE: (Ray Lewis) Well, I  
12 think that the point that Paul made is very pertinent  
13 in that if you start intruding into this relationship  
14 between property owner or the licensee on the  
15 crossing -- it is usually the same person but not  
16 always -- I think you get yourself possibly in the  
17 position where you could have takings. I don't want to

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18 have 1900 takings. You know, I don't want to retire  
19 and been responsible for having to go out and have 1900  
20 railroad transactions or more if the railroad happened  
21 to run down the property line and you have got two  
22 people with underlying interests in something like  
23 that.

24           It goes back to my comments that most of  
25 those crossings are never going to cause us any

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1 trouble. I think that the ones that are going to cause  
2 us the most potential to cause trouble are the ones  
3 that were in the deed but the family has, granted the  
4 property has been subsidized, a trailer park has been  
5 put in or something. And I think that at that point,  
6 there may need to be some mechanism in state law or  
7 maybe federal regulations -- I am not sure of the  
8 appropriate form -- that would permit that deed to be  
9 rolled over into an agreement into a standard private  
10 crossing agreement.

11           When something like this happens, usually  
12 there is money being made. And the developer very  
13 frequently has the opportunity, as he did with the one  
14 with the 120 houses and lumber trucks, to get out from  
15 under his obligation to provide good and safe access to  
16 his tenants or the people to whom he sells the property  
17 or whatever.

18           Unfortunately, at least in West Virginia we  
19 have all of this new case law on change in use. And  
20 what we do is come out of circuit courts. And it

21 hasn't been reported, but I think that might be the  
22 most fruitful area to look at to try to identify those  
23 crossings that are going to pop up and cause you  
24 problems.

25 THE MODERATOR: Thank you.

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1 MR. CAMPBELL: I might add that I agree with  
2 what Ray says wholeheartedly. And also to follow-up  
3 with John, by and large, I think the majority of the  
4 private crossings are not going to be an issue. And we  
5 don't need to go into this potential rule-making  
6 process and change what goes on at those locations.  
7 The ones that are in issue are the ones that do have  
8 this free and unrestricted public access and may  
9 require some additional treatment. So I think right  
10 there we narrow this down to a smaller group of  
11 crossings. Potentially I would see that the existing  
12 private crossings be retained. However, one thing that  
13 we might look at as a benefit to some regulation would  
14 be that if the usage for the ADDT on the crossing  
15 changes by some percentage or fixed amount that it  
16 would prompt a review into the use of the crossing  
17 because that's one of our big concerns is if a private  
18 landowner sells some or all of the large tract of  
19 property, all of a sudden it would become a multi-family  
20 access way or potentially a sporting-type facility or  
21 other facility where the public all of a sudden gets  
22 this expectation of free access.

23 So the rule-making process, as I see it,  
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24 really would have minimum impact on a large number of  
25 crossings. But the ones where there are changes or

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1 where we do find public access are the ones that need  
2 to be addressed. And that's where it would be  
3 beneficial.

4 MR. WORLEY: As Ray was talking, one thing I  
5 wrote down was plans and outreach. And I propose a  
6 book called the Land Use Planner's Guide to Railroads  
7 because I think one thing you have got to try to do if  
8 the Feds can do something from a level or the states,  
9 as we look at land-use planning and smart growth as we  
10 talk about that, is to get information out to land-use  
11 planners on county levels and municipal levels what is  
12 the railroad about. You know, it is not a dying  
13 artery. It is growing. It has got more traffic, but  
14 you have got to consider the railroad and the facts  
15 about railroads when you are looking at land-use  
16 planning.

17 We went through the steps for working groups  
18 on public crossings. Maybe there needs to be some kind  
19 of, you know, information in that Land Use Planner's  
20 Guide to Railroads, Copyright 2007, Part One, that  
21 states all of that information where they can refer to  
22 and know that when they approve a subdivision rezoning  
23 perhaps they need to require them to get alternative  
24 access to private crossings. I think that's the way  
25 you continually try to work through these things



1 because the problems aren't created overnight. And  
2 they won't be resolved. And we will all be crazy and  
3 muttering before they are ever resolved. But that book  
4 is on sale very soon.

5 THE MODERATOR: Anyway, our time is near  
6 closing. I would like the panel members to -- if  
7 anybody has one last comment on the topic. Otherwise,  
8 I would like to give them all one last round of  
9 applause.

10 Once again, I thank you all for attending.  
11 And if you are interested in this topic and any of the  
12 other TRB Committee topics, we will be discussing them  
13 all tomorrow at the eight o'clock in the morning till  
14 noon in Lincoln II. And I also extend an invitation to  
15 you if you still have an interest in safety at private  
16 crossings to join us in Syracuse, New York in  
17 February -- it should be lovely weather -- at the  
18 Doubletree Hotel in Syracuse, New York. Thank you very  
19 much. The session is closed.

20 (At 5:34 p.m., the session was concluded.)

21  
22  
23  
24  
25



# **Appendix A.7**

## **Docket Submissions**

authorized users in the field to request, be granted, or release on-track authority. To facilitate the implementation of this technology, UP is requesting that FRA suspend compliance with certain rules in accordance with the provisions contained in 49 CFR 211.51.

The Remote Authority is a web-based application that will permit authorized users to request, be granted, or release Foul Time, Track Permit, Track & Time or Track Warrant authority to occupy a main track or other controlled track. The central office component consists of one or more Remote Authority servers that will receive requests from authorized users for on-track authority or requests to release on-track authority. If the user is authorized to request or release on-track authority, and the request meets established criteria, the request is forwarded to the Union Pacific's Computer Aided Dispatching system for further processing. Requests that do not meet established criteria are rejected at this point in the process, and the user is provided the opportunity to change or cancel the request.

Requests for on-track authority are received by the dispatching system and must meet established criteria to be eligible for issuance by the dispatching system without dispatcher intervention. If the established criteria are not satisfied, the request is placed in the appropriate authority request queue, and the train dispatcher is notified.

In this regard, the UP requests relief to permit the dispatching system to grant or release on-track authority in response to a valid request from an authorized user without intervention on the part of the train dispatcher or control operator who controls train movements on that track. The UP hereby seeks relief from 49 CFR 214.321(a)(1), which requires a track occupancy authority for working limits to be issued to the roadway worker in charge by the train dispatcher or control operator who controls train movements on that track.

Access to the Remote Authority application within the UP network requires the user to present valid credentials consisting of standard user identification and secret password. For off-network access, a Virtual Private Network (VPN) connection must be established by the employee before presenting valid credentials. Within the Remote Authority application, individual users are further restricted in the functions they may perform.

Interested parties are invited to participate in this proceeding by submitting written views, data, or comments. Although FRA does not anticipate scheduling a public hearing

in connection with this proceeding, if any interested party desires an opportunity for oral comment, they should notify FRA in writing before the end of the comment period and specify the basis for their request.

All communications concerning this proceeding should identify the appropriate docket number (FRA-2006-24840) and may be submitted by any of the following methods:

- Web site: <http://dms.dot.gov>.

Follow the instructions for submitting comments on the DOT electronic docket site.

- Fax: 202-493-2251.

- Mail: Docket Management Facility, U.S. Department of Transportation, 400 Seventh Street, SW., Nassif Building, Room PL-401, Washington, DC 20590-001.

- Hand Delivery: Docket Management Facility, Room PL-401 on the Plaza level of the Nassif Building, 400 Seventh Street, SW., Washington, DC, between 9 a.m. and 5 p.m., Monday through Friday, except Federal Holidays.

Communications received within 45 days of the date of this notice will be considered by FRA before final action is taken. Comments received after that date will be considered as far as practicable. All written communications concerning these proceedings are available for examination during regular business hours (9 a.m.-5 p.m.) at the above facility. All documents in the public docket are also available for inspection and copying on the Internet at the docket facility's Web site at <http://dms.dot.gov>.

Anyone is able to search the electronic form of all comments received into any of our dockets by the name of the individual submitting the comment (or signing the comment, if submitted on behalf of an association, business, labor union, etc.). You may review DOT's complete Privacy Act Statement in the **Federal Register** published on April 11, 2000, (Volume 65, Number 70; Pages 19477-78). The statement may also be found at <http://dms.dot.gov>.

Issued in Washington, DC, on July 20, 2006.

**Grady C. Cothen, Jr.,**

*Deputy Associate Administrator for Safety Standards and Program Development.*

[FR Doc. E6-11964 Filed 7-26-06; 8:45 am]

**BILLING CODE 4910-06-P**

## DEPARTMENT OF TRANSPORTATION

### Federal Railroad Administration

[Docket No. FRA-2005-23281, Notice No. 1]

#### Safety of Private Highway-Rail Grade Crossings; Notice of Safety Inquiry

**AGENCY:** Federal Railroad Administration (FRA), Department of Transportation (DOT).

**ACTION:** Notice of safety inquiry.

**SUMMARY:** FRA announces its intent to conduct a series of open meetings throughout the United States, in cooperation with appropriate State agencies, to consider issues related to the safety of private highway-rail grade crossings. At each open meeting, FRA intends to solicit oral statements from private crossing owners, railroads and other interested parties on issues related to the safety of private highway-rail grade crossings, which will include, but not be limited to, current practices concerning responsibility for safety at private grade crossings, the adequacy of warning devices at private crossings, and the relative merits of a more uniform approach to improving safety at private crossings. FRA has also opened a public docket on these issues, so that interested parties may submit written comments for public review and consideration.

**DATES:** The initial public meeting will be held in Fort Snelling, Minnesota on August 30, 2006 at the Bishop Henry Whipple Federal Building. Persons wishing to participate are requested to provide their names, organizational affiliation and contact information to Michelle Silva, Docket Clerk, FRA, 1120 Vermont Avenue, NW., Washington, DC 20590 (telephone 202-493-6030) by July 31, 2006. Persons needing sign language interpretation or other reasonable accommodation for disability are also encouraged to contact Michelle Silva, FRA Docket Clerk, at (202) 493-6030 by July 31, 2006. Additional public meetings will be announced over the next three months.

**FOR FURTHER INFORMATION CONTACT:** Ron Ries, Office of Safety, FRA, 1120 Vermont Avenue, NW., Washington, DC 20590 (telephone 202-493-6299); Miriam Kloepfel, Office of Safety, FRA, 1120 Vermont Avenue, NW., Washington, DC 20590 (telephone 202-493-6299); or Kathryn Shelton, Office of Chief Counsel, FRA, 1120 Vermont Avenue, NW., Washington, DC 20590 (telephone 202-493-6038).

**SUPPLEMENTARY INFORMATION:** There are currently over 94,000 private highway-

rail grade crossings (private crossings) in the United States. Each year, about 400 accidents and between 30–40 fatalities occur at these crossings. In most years, the number of deaths occurring at private crossings exceeded the number of on-duty deaths among

railroad employees in all rail operations. While accidents and injuries at public highway-rail grade crossings have declined by between one-third and one-half in the past decade, accidents at private crossings have declined by only 10 percent, and the number of injuries

in private crossing accidents has actually increased by 1 percent. Figures 1 and 2 show the accident, fatality, and injury trends occurring at private and public grade crossings, respectively.

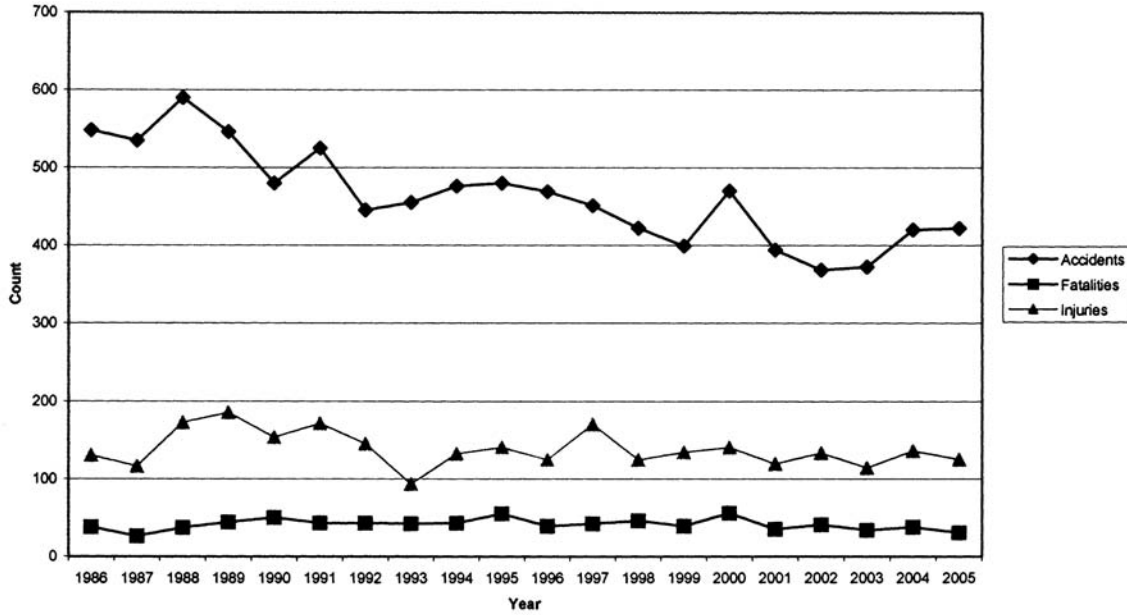


Figure 1. Accidents, fatalities, and injuries occurring at private highway-railroad grade crossings between 1986 and 2005.

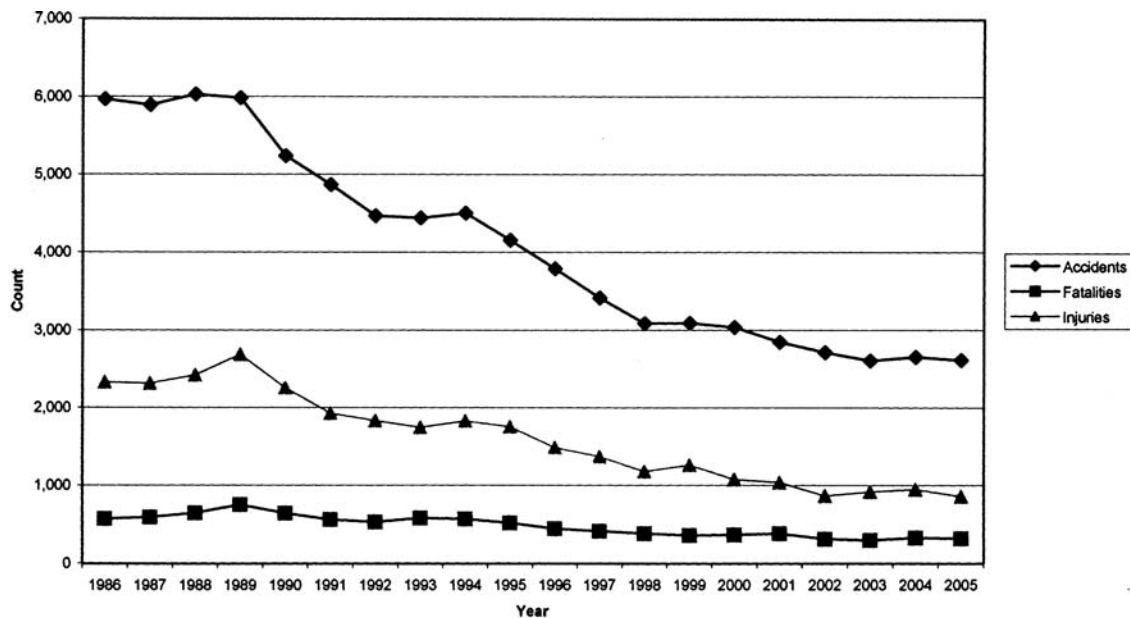


Figure 2. Accidents, fatalities, and injuries occurring at *public* highway-railroad grade crossings between 1986 and 2005.

Private highway-rail grade crossing safety has therefore been a matter of concern to the U.S. Department of Transportation and the National Transportation Safety Board (NTSB). FRA hosted an open meeting to initiate industry-wide discussions concerning private highway-rail grade crossing safety on July 15, 1993. In its 1994 Rail-Highway Crossing Safety Action Plan, the United States Department of Transportation proposed to “develop and provide national, minimum safety standards for private crossings, and to eliminate the potential impediment to high speed rail operations posed by private crossings.” In its 1997 study on Safety at Passive Grade Crossings, the National Transportation Safety Board (NTSB) highlighted the need for some system to improve safety at private highway-railroad grade crossings, recommending that the DOT, in conjunction with the States, should determine governmental oversight responsibility for safety at private highway-rail grade crossings. In 1999, the NTSB weighed in again on the issue of safety at private crossings in its report on a private grade crossing accident in Portage, Indiana. In this case, the NTSB recommended that the U.S. Department of Transportation “eliminate any differences between private and public highway-rail grade crossings with regard to providing funding for, or requiring the implementation of, safety improvements.” In 2004, the

Department of Transportation published an updated Highway-Rail Crossing Safety and Trespass Prevention Action Plan ([http://www.fra.dot.gov/downloads/safety/action\\_plan\\_2004.pdf](http://www.fra.dot.gov/downloads/safety/action_plan_2004.pdf)) (*Secretary's Action Plan*). In this plan the FRA has committed to lead an effort to define responsibility for safety at private highway-rail grade crossings. This effort is intended to include a determination of minimum criteria for signage, and also to identify safety needs.

Private crossings present a safety challenge precisely because their non-public character can influence their design and maintenance. The 94,000 private crossings that remain on the national rail system serve the needs of a very large and disparate population of individuals, small businesses and large corporations that are holders of the right or privilege to traverse the railroad. Their circumstances differ in many ways:

1. *Degree of need for private crossings and their use.* The policy of the U.S. Department of Transportation seeks elimination of unnecessary and particularly hazardous highway-rail grade crossings, whether public or private. *Secretary's Action Plan* at 41. Some private crossings are essential for access to the holder's property and failure to provide access would render the property much less valuable. Other private crossings are situated along roads that could easily provide access

via other public or private crossings. Some private crossings are heavily used, while others are used only seasonally (e.g., certain agricultural crossings used only for movement of agricultural equipment such as tractors and combines). Some crossings are used only for routine personal use or occasional use by business guests (e.g., personal residences). Other private crossings are used extensively for private business purposes, and motor vehicle operators are typically employees, contractors, and suppliers (e.g., access to industries, rock quarries, etc.) In still other cases, private crossings may be used very heavily by the public to enter commercial facilities.

2. *Engineering.* Some private crossings providing access to commercial properties have well-maintained surfaces and excellent signage comparable to that contemplated by the Manual for Uniform Traffic Control Devices. According to the National Highway-Rail Crossing Inventory, active warning devices are provided at 1,078 private crossings. More typically, many private crossings are marked only by crossbuck signs without advance warning signs, or not at all; and surface may be irregular. Sight distances at private crossings without active warning devices vary widely. Neither the Federal Government nor the States, with extremely few exceptions, provide financial assistance for engineering improvements at private crossings. In

these few instances, funding for private crossings may be provided for specific corridor projects, most commonly the high speed rail corridors.

3. *Legal status.* Private crossing rights vary from ownership of the fee simple (outright ownership of the underlying property), to documented easements, to prescriptive easements (where recognized), to documented licenses under contract, to verbal licenses subject to revocation without notice. The entities enjoying rights under these arrangements may be referred to as "holders" of the right to cross. Increasingly over the past 15 years, railroads have sought to establish maximum control over these intermodal intersections by requiring crossing holders to purchase insurance or provide other protection in the event a holder, railroad or a third party experiences a loss due to a collision. Contracts or other legal instruments may further define responsibilities (e.g., for maintenance of the crossing surface or providing notifications under stated conditions).

4. *Extent of regulation.* In general, private crossings are not subject to regulation at the State or Federal level. FRA's requirements for inspection, test and maintenance of active warning devices (49 CFR part 234) apply to the railroad where active warning has been installed; but there is no Federal mandate for providing such warning.<sup>1</sup> A handful of States require that railroads place crossbucks or special signage (in some cases a stop sign and a crossbuck on the same post) at private crossings. The subject of private crossings is otherwise largely unregulated. Accordingly, such recognized responsibilities as exist with respect to the safety of private crossings are generally the product of contracts and common law. (For a general description of responsibilities related to crossing safety, see Safety Advisory 2005-03; Highway-Rail Grade Crossing Safety (70 FR 22750; May 2, 2005)).

#### Request for Comments

While FRA solicits discussion and comments on all areas of safety at private highway-rail grade crossings, we particularly encourage comments on the following topics:

- At-grade highway-rail crossings present inherent risks to users, including the railroad and its employees, and to other persons in the

<sup>1</sup> Other FRA regulations applicable to the railroad are intended to address safety at private crossings, as well as public crossings, particularly requirements for alerting lights (49 CFR 219.125) and reflectorization of rail rolling stock (49 CFR part 224) to make trains more conspicuous.

vicinity should a train derail into an occupied area or release hazardous materials. When passenger trains are involved, the risks are heightened. From the standpoint of public policy, how do we determine whether creation or continuation of a private crossing is justified?

- Is the current assignment of responsibility for safety at private crossings effective? To what extent do risk management practices associated with insurance arrangements result in "regulation" of safety at private crossings?
- How should improvement and/or maintenance costs associated with private crossing be allocated?
- Is there a need for alternative dispute resolution mechanisms to handle disputes that may arise between private crossing owners and the railroads?
- Should the State or Federal government assume greater responsibility for safety at private crossings?
- Should there be Nationwide standards for warning devices at private crossings, or for intersection design of new private grade crossings?
- How do we determine when a private crossing has a 'public purpose' and is subject to public use?
- Should some crossings be categorized as 'commercial crossings', rather than as 'private crossings'?
- Are there innovative traffic control treatments that could improve safety at private crossings on major rail corridors, including those on which passenger service is provided?
- Should the Department of Transportation request enactment of legislation to address private crossings? If so, what should it include?

Issued in Washington, DC, on July 20, 2006.

**Joseph H. Boardman,**  
Administrator.

[FR Doc. 06-6501 Filed 7-26-06; 8:45 am]

**BILLING CODE 4910-06-P**

## DEPARTMENT OF TRANSPORTATION

### Maritime Administration

[Docket No. MARAD-2006-25457]

#### Information Collection Available for Public Comments and Recommendations

**ACTION:** Notice and request for comments.

**SUMMARY:** In accordance with the Paperwork Reduction Act of 1995, this notice announces the Maritime

Administration's (MARAD's) intention to request extension of approval for three years of a currently approved information collection.

**DATES:** Comments should be submitted on or before September 25, 2006.

#### FOR FURTHER INFORMATION CONTACT:

Michael Franklin, Maritime Administration, (MAR-610), 400 Seventh St., SW., Washington, DC 20590. Telephone: 202-366-2628, fax: 202-366-3954; or e-mail: [michael.franklin@dot.gov](mailto:michael.franklin@dot.gov). Copies of this collection can also be obtained from that office.

#### SUPPLEMENTARY INFORMATION:

*Title of Collection:* Automated Mutual-Assistance Vessel Rescue System (AMVER).

*Type of Request:* Extension of currently approved information collection.

*OMB Control Number:* 2133-0025.

*Form Numbers:* None.

*Expiration Date of Approval:* Three years from date of approval by the Office of Management and Budget.

*Summary of Collection of Information.* This collection of information is used to gather information regarding the location of U.S.-flag vessels and certain other U.S. citizen-owned vessels for the purpose of search and rescue in the saving of lives at sea and for the marshalling of ships for national defense and safety purposes.

*Need and Use of the Information:* This information collection is necessary for maintaining a current plot of U.S.-flag and U.S.-owned vessels.

*Description of Respondents:* Respondents are U.S.-flag and U.S. citizen-owned vessels.

*Annual Responses:* 29,280 responses.

*Annual Burden:* 2,342 hours.

*Comments:* Comments should refer to the docket number that appears at the top of this document. Written comments may be submitted to the Docket Clerk, U.S. DOT Dockets, Room PL-401, 400 Seventh Street, SW., Washington, DC 20590. Comments may also be submitted by electronic means via the Internet at <http://dmses.dot.gov/submit>. Specifically address whether this information collection is necessary for proper performance of the functions of the agency and will have practical utility, accuracy of the burden estimates, ways to minimize this burden, and ways to enhance the quality, utility, and clarity of the information to be collected. All comments received will be available for examination at the above address between 10 a.m. and 5 p.m. EDT (or EST), Monday through Friday, except

If the FRA and OnStar could work together they could set up a system for OnStar users and it could work something like this. When any vehicle that has OnStar approaches any rail crossing and there is a locomotive/train within 1000' (or more) of the crossing a pre-recorded audio message would announce that a locomotive/train is approaching and the driver should stop or proceed with caution at that particular crossing. Each locomotive would need a transponder or better yet the transponder could be inside the signal box at that crossing. This may also be able to work with regular cell phones also. If there are no gates or lights at least they will hear a voice. If there are lights and gates than there is the addition of the third warning device, the message.



subject area (for other comments). Resource limitations preclude acknowledging or replying to submissions.

While the meeting is open to the public, admittance to the Department of State building is only by means of a pre-arranged clearance list. In order to be placed on the pre-clearance list, we must receive the following information from you no later than 5 p.m. on Monday, October 2, 2006:

**I. State That You Are Requesting Pre-Clearance to a Meeting**

**II. Provide the Following Information**

1. Name of meeting and its date and time (ACICIP, October 5, 2006, 10 a.m.).
2. Visitor's full name.
3. Company/Agency/Organization.
4. Title at Company/Agency/Organization.
5. Date of birth.
6. Citizenship.
7. Type of ID visitor will show upon entry (from list below).
8. ID number on the ID visitor will show upon entry.

Send the above information to Richard W. O'Brien by fax (202) 647-0158 or e-mail [o'brienrw@state.gov](mailto:o'brienrw@state.gov).

All visitors for this meeting must use the 23rd Street entrance. One of the following valid ID's bearing the number provided with your pre-clearance request will be required for admittance:

- U.S. driver's license with photo.
- Passport.
- U.S. government agency ID.

Non-U.S. government attendees must be escorted by Department of State personnel at all times when in the building.

For further information, please contact Richard W. O'Brien, Executive Secretary of the Committee, at (202) 647-4736 or [o'brienrw@state.gov](mailto:o'brienrw@state.gov).

General information about ACICIP and the mission of International Communications and Information Policy at the Department of State is available at our Web site: <http://www.state.gov/e/eb/adcom/c667.htm>.

Dated: September 18, 2006.

**Richard W. O'Brien,**

*ACICIP Executive Secretary, Department of State.*

[FR Doc. 06-8062 Filed 9-21-06; 8:45 am]

BILLING CODE 4710-07-P

**DEPARTMENT OF STATE**

**[Public Notice 5557]**

**Bureau of International Security and Nonproliferation; Extension of Waiver of Missile Proliferation Sanctions Against Chinese Government Activities**

**AGENCY:** Department of State.

**ACTION:** Notice.

**SUMMARY:** A determination has been made to extend the waiver of import sanctions against certain activities of the Chinese government that was announced on September 19, 2003, pursuant to the Arms Export Control Act, as amended.

**DATES:** *Effective Date:* September 13, 2006.

**FOR FURTHER INFORMATION CONTACT:** Pam Durham, Office of Missile Threat Reduction, Bureau of International Security and Nonproliferation, Department of State (202-647-4931).

**SUPPLEMENTARY INFORMATION:** A determination was made on March 13, 2006, pursuant to section 73(e) of the Arms Export Control Act (22 U.S.C. 2797b(e)) that it was essential to the national security of the United States to waive for a period of six months the import sanction described in section 73(a)(2)(C) of the Arms Export Control Act (22 U.S.C. 2797b(a)(2)(C)) against the activities of the Chinese government described in section 74(a)(8)(B) of the Arms Export Control Act (22 U.S.C. 2797c(a)(8)(B))—*i.e.*, activities of the Chinese government relating to the development or production of any missile equipment or technology and activities of the Chinese government affecting the development or production of electronics, space systems or equipment, and military aircraft (see **Federal Register** Vol. 68, No. 182, Friday, September 19, 2003). This action was effective on March 18, 2006.

On September 13, 2006, a determination was made pursuant to section 73(e) of the Arms Export Control Act (22 U.S.C. 2797b(e)) that it is essential to the national security of the United States to extend the waiver period for an additional six months, effective from the date of expiration of the previous waiver (September 18, 2006).

These measures shall be implemented by the responsible agencies as provided in Executive Order 12851 of June 11, 1993.

Dated: September 18, 2006.

**Patricia A. McNerney,**

*Acting Assistant Secretary of State for International Security and Nonproliferation, Department of State.*

[FR Doc. 06-8063 Filed 9-21-06; 8:45 am]

BILLING CODE 4710-27-P

**DEPARTMENT OF TRANSPORTATION**

**Federal Railroad Administration**

**[Docket No. FRA-2005-23281, Notice No. 2]**

**Safety of Private Highway-Rail Grade Crossings; Notice of Safety Inquiry**

**AGENCY:** Federal Railroad Administration (FRA), Department of Transportation (DOT).

**ACTION:** Notice of safety inquiry.

**SUMMARY:** On July 27, 2006, FRA published a notice announcing its intent to conduct a series of open meetings throughout the United States, in cooperation with appropriate State agencies, to consider issues related to the safety of private highway-rail grade crossings. This notice indicated that the first of these meetings would be held August 30, 2006, in Fort Snelling, Minnesota. Notice No. 2 announces that FRA has scheduled subsequent meetings to be held September 27, 2006, in Raleigh, North Carolina; October 26, 2006, in San Francisco, California; and December 6, 2006, in New Orleans, Louisiana.

At each open meeting, FRA intends to solicit oral statements from private crossing owners, railroads and other interested parties on issues related to the safety of private highway-rail grade crossings, which will include, but will not be limited to, current practices concerning the responsibility for safety at private grade crossings, the adequacy of warning devices at private crossings, and the relative merits of a more uniform approach to improving safety at private crossings. FRA has also opened a public docket on these issues so that interested parties may submit written comments for public review and consideration.

**DATES:** The initial public meeting was held in Fort Snelling, Minnesota, on August 30, 2006, at the Bishop Henry Whipple Federal Building, One Federal Drive, Fort Snelling, Minnesota 55111, beginning at 9:30 a.m. The second public meeting will be held in Raleigh, North Carolina, on September 27, 2006, at North Carolina State University's McKimmon Conference and Training Center, 1101 Gorman Street, North

Carolina State University, Raleigh, North Carolina 27695, beginning at 9:30 a.m. The third public meeting will be held in San Francisco, California, on October 26, 2006, at the Philip Burton Federal Building and Courthouse, 450 Golden Gate Avenue, San Francisco, California 94102, beginning at 9:30 a.m. The fourth public meeting will be held in New Orleans, Louisiana, on December 6, 2006, at the Chateau Sonesta Hotel, 800 Iberville Street, New Orleans, Louisiana 70112, beginning at 9:30 a.m.

Persons wishing to participate are requested to provide their names, organizational affiliation, and contact information to Michelle Silva, Docket Clerk, FRA, 1120 Vermont Avenue, NW., Washington, DC 20590 (telephone 202-493-6030). Persons needing sign language interpretation or other reasonable accommodation for disability are also encouraged to contact Michelle Silva, FRA Docket Clerk, at (202) 493-6030. Additional public meetings will be announced over the next three months.

**FOR FURTHER INFORMATION CONTACT:** Ron Ries, Office of Safety, FRA, 1120 Vermont Avenue, NW., Washington, DC 20590 (telephone 202-493-6299); Miriam Kloeppe, Office of Safety, FRA, 1120 Vermont Avenue, NW., Washington, DC 20590 (telephone 202-493-6299); or Kathryn Shelton, Office of Chief Counsel, FRA, 1120 Vermont Avenue, NW., Washington, DC 20590 (telephone 202-493-6038).

**SUPPLEMENTARY INFORMATION:** For additional information, please see the initial notice, published July 27, 2006, in the *Federal Register* (citation: 71 FR 42713) and available at <http://a257.g.akamaitech.net/7/257/2422/01jan20061800/edocket.access.gpo.gov/2006/pdf/06-6501.pdf>.

#### Request for Comments

While FRA solicits discussion and comments on all areas of safety at private highway-rail grade crossings, we particularly encourage comments on the following topics:

- At-grade highway-rail crossings present inherent risks to users, including the railroad and its employees, and to other persons in the vicinity if a train were to derail into an occupied area or release hazardous materials. When passenger trains are involved, the risks are heightened. From the standpoint of public policy, how do we determine whether the creation or continuation of a private crossing is justified?

- Is the current assignment of responsibility for safety at private

crossings effective? To what extent do risk-management practices associated with insurance arrangements result in "regulation" of safety at private crossings?

- How should improvement and/or maintenance costs associated with private crossing be allocated?
- Is there a need for alternative dispute resolution mechanisms to handle disputes that may arise between private crossing owners and the railroads?
- Should the State or Federal government assume greater responsibility for safety at private crossings?
- Should there be nationwide standards for warning devices at private crossings or for intersection design of new private grade crossings?
- How do we determine when a private crossing has a public purpose and is subject to public use?
- Should some crossings be categorized as commercial crossings rather than private crossings?
- Are there innovative traffic control treatments that could improve safety at private crossings on major rail corridors, including those on which passenger service is provided?
- Should the DOT request enactment of legislation to address private crossings? If so, what should it include?

Issued in Washington, DC, on September 15, 2006.

**Michael J. Logue,**

*Deputy Associate Administrator for Safety.*

[FR Doc. 06-7811 Filed 9-21-06; 8:45 am]

**BILLING CODE 4910-06-P**

## DEPARTMENT OF TRANSPORTATION

### Surface Transportation Board

[STB Ex Parte No. 558 (Sub-No. 9)]

#### Railroad Cost of Capital—2005

**AGENCY:** Surface Transportation Board. DOT.

**ACTION:** Notice of decision.

**SUMMARY:** On August 28, 2006, the Board served a decision to update its computation of the railroad industry's cost of capital for 2005. The composite after-tax cost-of-capital rate for 2005 is found to be 12.2%, based on a current cost of debt of 5.36%; a cost of common equity capital of 15.18%; and a capital structure mix comprised of 30.41% debt and 69.59% common equity. The cost-of-capital finding made in this proceeding will be used in a variety of Board proceedings.

**DATES:** Effective Date: This action is effective August 28, 2006.

**FOR FURTHER INFORMATION CONTACT:** Paul Aguiar, 202-565-1527. (Federal Information Relay Service (FIRS) for the hearing impaired: 1-800-877-8339).

**SUPPLEMENTARY INFORMATION:** The cost-of-capital finding in this decision may be used for a variety of regulatory purposes. Based upon Western Coal Traffic League reply comments, we will institute a separate advance notice of proposed rulemaking to explore the most suitable methodology to calculate the cost of capital. That proceeding will provide all interested parties an opportunity to comment on the discounted cash flow (DCF) model, the proper source for the inputs to that model, and whether the Board should adopt an alternative to that method, such as the Capital Asset Pricing Model (CAPM), for future cost-of-capital determinations. The Board's decision is posted on the Board's Web site, <http://www.stb.dot.gov>. In addition, copies of the decision may be purchased from ASAP Document Solutions by calling 202-306-4004 (assistance for the hearing impaired is available through FIRS at 1-800-877-8339), or by e-mail at [asapdc@verizon.net](mailto:asapdc@verizon.net).

#### Environmental and Energy Considerations

This action will not significantly affect either the quality of the human environment or the conservation of energy resources.

#### Regulatory Flexibility Analysis

Pursuant to 5 U.S.C. 605(b), we conclude that our action in this proceeding will not have a significant economic impact on a substantial number of small entities. The purpose and effect of this action are to update the annual railroad industry cost-of-capital finding by the Board. No new reporting or other regulatory requirements are imposed, directly or indirectly, on small entities.

**Authority:** 49 U.S.C. 10704(a).

*Decided:* September 15, 2006.

By the Board, Chairman Nottingham, Vice Chairman Mulvey, and Commissioner Buttrely.

**Vernon A. Williams,**

*Secretary.*

[FR Doc. 06-8097 Filed 9-21-06; 8:45 am]

**BILLING CODE 4915-01-P**

subject area (for other comments). Resource limitations preclude acknowledging or replying to submissions.

While the meeting is open to the public, admittance to the Department of State building is only by means of a pre-arranged clearance list. In order to be placed on the pre-clearance list, we must receive the following information from you no later than 5 p.m. on Monday, October 2, 2006:

**I. State That You Are Requesting Pre-Clearance to a Meeting**

**II. Provide the Following Information**

1. Name of meeting and its date and time (ACICIP, October 5, 2006, 10 a.m.).
2. Visitor's full name.
3. Company/Agency/Organization.
4. Title at Company/Agency/Organization.
5. Date of birth.
6. Citizenship.
7. Type of ID visitor will show upon entry (from list below).
8. ID number on the ID visitor will show upon entry.

Send the above information to Richard W. O'Brien by fax (202) 647-0158 or e-mail [o'brienrw@state.gov](mailto:o'brienrw@state.gov).

All visitors for this meeting must use the 23rd Street entrance. One of the following valid ID's bearing the number provided with your pre-clearance request will be required for admittance:

- U.S. driver's license with photo.
- Passport.
- U.S. government agency ID.

Non-U.S. government attendees must be escorted by Department of State personnel at all times when in the building.

For further information, please contact Richard W. O'Brien, Executive Secretary of the Committee, at (202) 647-4736 or [o'brienrw@state.gov](mailto:o'brienrw@state.gov).

General information about ACICIP and the mission of International Communications and Information Policy at the Department of State is available at our Web site: <http://www.state.gov/e/eb/adcom/c667.htm>.

Dated: September 18, 2006.

**Richard W. O'Brien,**

*ACICIP Executive Secretary, Department of State.*

[FR Doc. 06-8062 Filed 9-21-06; 8:45 am]

BILLING CODE 4710-07-P

**DEPARTMENT OF STATE**

**[Public Notice 5557]**

**Bureau of International Security and Nonproliferation; Extension of Waiver of Missile Proliferation Sanctions Against Chinese Government Activities**

**AGENCY:** Department of State.

**ACTION:** Notice.

**SUMMARY:** A determination has been made to extend the waiver of import sanctions against certain activities of the Chinese government that was announced on September 19, 2003, pursuant to the Arms Export Control Act, as amended.

**DATES:** *Effective Date:* September 13, 2006.

**FOR FURTHER INFORMATION CONTACT:** Pam Durham, Office of Missile Threat Reduction, Bureau of International Security and Nonproliferation, Department of State (202-647-4931).

**SUPPLEMENTARY INFORMATION:** A determination was made on March 13, 2006, pursuant to section 73(e) of the Arms Export Control Act (22 U.S.C. 2797b(e)) that it was essential to the national security of the United States to waive for a period of six months the import sanction described in section 73(a)(2)(C) of the Arms Export Control Act (22 U.S.C. 2797b(a)(2)(C)) against the activities of the Chinese government described in section 74(a)(8)(B) of the Arms Export Control Act (22 U.S.C. 2797c(a)(8)(B))—*i.e.*, activities of the Chinese government relating to the development or production of any missile equipment or technology and activities of the Chinese government affecting the development or production of electronics, space systems or equipment, and military aircraft (see **Federal Register** Vol. 68, No. 182, Friday, September 19, 2003). This action was effective on March 18, 2006.

On September 13, 2006, a determination was made pursuant to section 73(e) of the Arms Export Control Act (22 U.S.C. 2797b(e)) that it is essential to the national security of the United States to extend the waiver period for an additional six months, effective from the date of expiration of the previous waiver (September 18, 2006).

These measures shall be implemented by the responsible agencies as provided in Executive Order 12851 of June 11, 1993.

Dated: September 18, 2006.

**Patricia A. McNerney,**

*Acting Assistant Secretary of State for International Security and Nonproliferation, Department of State.*

[FR Doc. 06-8063 Filed 9-21-06; 8:45 am]

BILLING CODE 4710-27-P

**DEPARTMENT OF TRANSPORTATION**

**Federal Railroad Administration**

**[Docket No. FRA-2005-23281, Notice No. 2]**

**Safety of Private Highway-Rail Grade Crossings; Notice of Safety Inquiry**

**AGENCY:** Federal Railroad Administration (FRA), Department of Transportation (DOT).

**ACTION:** Notice of safety inquiry.

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- Should the DOT request enactment of legislation to address private crossings? If so, what should it include?

Issued in Washington, DC, on September 15, 2006.

**Michael J. Logue,**

*Deputy Associate Administrator for Safety.*

[FR Doc. 06-7811 Filed 9-21-06; 8:45 am]

**BILLING CODE 4910-06-P**

## DEPARTMENT OF TRANSPORTATION

### Surface Transportation Board

[STB Ex Parte No. 558 (Sub-No. 9)]

### Railroad Cost of Capital—2005

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**ACTION:** Notice of decision.

**SUMMARY:** On August 28, 2006, the Board served a decision to update its computation of the railroad industry's cost of capital for 2005. The composite after-tax cost-of-capital rate for 2005 is found to be 12.2%, based on a current cost of debt of 5.36%; a cost of common equity capital of 15.18%; and a capital structure mix comprised of 30.41% debt and 69.59% common equity. The cost-of-capital finding made in this proceeding will be used in a variety of Board proceedings.

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**Authority:** 49 U.S.C. 10704(a).

*Decided:* September 15, 2006.

By the Board, Chairman Nottingham, Vice Chairman Mulvey, and Commissioner Buttrely.

**Vernon A. Williams,**

*Secretary.*

[FR Doc. 06-8097 Filed 9-21-06; 8:45 am]

**BILLING CODE 4915-01-P**

For the FRA to "increase" safety at private crossings --- first there would need to be a little safety. The crossings are BLIND--DEADLY---without even train whistles being blown. Hell there isn't even safety measures at public crossings because the FEDs are DIRTY.

I'm sure this is nothing about safety and all about giving railroads AMNESTY when they blindside and kill people. No need for meetings if the FRA says the crossings are dangerous the FRA is in violation of Federal law and should be prosecuted for 100s of negligent homicides for NOT doing their job to start with!!!

NOTES:

ALL SIGNS ARE 24" OCTAGON AND 18" x 24" SIZED WITH RED AND WHITE BACKGROUND AND WHITE AND BLACK LETTERS AS SHOWN IN EXAMPLE.

PRIVATE CROSSING SIGN WITH 3/8" BLACK BORDER AND 3/8" MARGIN

ALL NUMBERS AND LETTERS TO BE IN ACCORDANCE WITH CURRENT MUTCD STANDARD ALPHABETS FOR HIGHWAY USE.

CENTER OF STOP SIGN IS TO BE 8'-0" ABOVE THE TOP OF PAVEMENT. THE DISTANCE FROM THE NEAR TRACK CENTERLINE IS TO BE 12'-0" MINIMUM AND 15'-0" MAXIMUM. DISTANCE FROM THE EDGE OF ROADWAY TO NEAR EDGE OF SIGN IS TO BE 12'-0" OR 6'-0" FROM THE EDGE OF SHOULDER, WHEN PRESENT, OR 2'-0" FROM THE FACE OF THE CURB, WHEN PRESENT. IF CURB IS NOT PRESENT, THE SIGN LOCATION CAN VARY FROM 6'-0" TO 12'-0" WHEN THERE ARE OBSTRUCTIONS ALONG THE SIDE OF THE ROAD. REFER TO NS PLAN 6-3A.

Sign blanks to be cladized 5052H38 bare back aluminum, 0.080" thickness, or as noted.

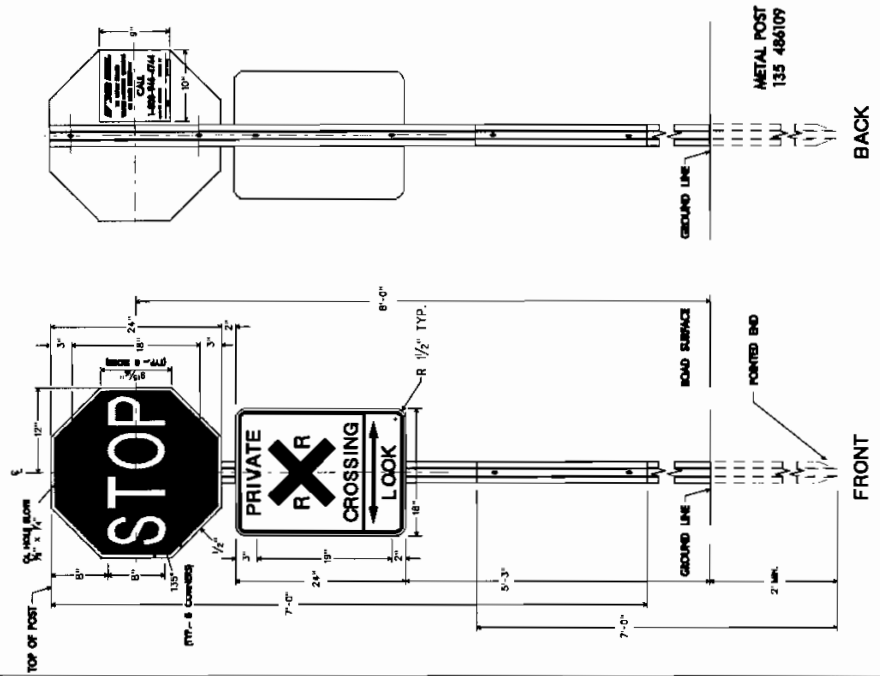
Remove all burrs and sharp edges.

Posts and backs of signs to be left unfinished.

Reflective sheeting to be high intensity grade unpainted.

Use IntelliSite, long lasting ink to enter ID# and road name on the back sticker.

See NS Plan 6-20 for mounting post details.



DECEMBER 14, 2004  
 Atlanta, Georgia

REVISION	DATE

1 U.S. DEPARTMENT OF TRANSPORTATION  
2 FEDERAL RAILROAD ADMINISTRATION  
3 SAFETY AT PRIVATE HIGHWAY-RAIL GRADE CROSSINGS  
4 PUBLIC MEETING

5

6

7

8

9

10

11

12 WEDNESDAY, AUGUST 30, 2006

13 9:30 AM

14 BISHOP HENRY WHIPPLE FEDERAL BUILDING

15 1 FEDERAL DRIVE,

16 FORT SNELLING, MINNESOTA 55111

17

18

19

20

21

ATKINSON-BAKER, INC.

22 COURT REPORTERS

(800) 288-3376

23 www.depo.com

24 TRANSCRIBED BY: DANA ANDERSON

25 FILE NO.: A007788

1



- 1 Partial Roster of Attendees
- 2 1st USDOT/FRA Public Meeting
- 3 Safety Inquiry on the Safety at Private Highway-Rail
- 4 Grade Crossings
- 5 Fort Snelling, Minnesota
- 6
- 7 Name/Organization
- 8 Robert VanderClute\*, AAR
- 9 William Browder, AAR
- 10 Tim Spencer, MNDOT
- 11 Ron Adams, Wisconsin DOT
- 12 Mark Morrison, Wisconsin DOT
- 13 Dan Kahnke, MNDOT
- 14 Shane Whitemore, CSX Railroad
- 15 Michael Long, USDOT/FRA
- 16 Rod McCorkle, Canadian Pacific Railroad
- 17 Paul Bicha, Canadian Pacific Railroad
- 18 Jim Keinzler, Canadian Pacific Railroad
- 19 Patricia Abbate\*, Citizens for Rail Safety
- 20 Craig N. Rasmussen, BNSF

- 21 George Warren, BNSF
- 22 Randy Harris, Canadian National Railroad
- 23 Terry Lee, Canadian National Railroad
- 24
- 25 \* Indicates provided an oral statement at the meeting.

- 1 Partial Roster of Attendees (Continued)
- 2
- 3 Name/Organization
- 4 Susan Aylesworth, MNDOT
- 5 Alfonse J. Cocchiarella, BNSF
- 6 Spencer Abbot, BNSF
- 7 Peggy Baer, Iowa DOT
- 8 David Peterson, Union Pacific Railroad
- 9 Bob Opal, Union Pacific Railroad
- 10 Tim DePaepe\*, Brotherhood of Railroad Signalmen
- 11 Mike Hillman, TKDA
- 12 Stacy Crakes, TKDA
- 13 Paul Comstock, USDOT/FRA
- 14 Lynn Leibfried, BNSF
- 15 Tom Perkovich, BLET
- 16 Jim Kreiger, Canadian Pacific Railroad
- 17 Jim Kienzler, Canadian Pacific Railroad
- 18 Allen Pepper, Kansas City Southern Railroad
- 19 Tammy Wagner, USDOT/FRA
- 20 Chris Adams, USDOT/FRA

21 Bennie Howe, USDOT/FRA

22 Howard J. Gillespie, USDOT/FRA

23 Stacey Tuthill, WeberShandwick

24

25 \* Indicates provided an oral statement at the meeting.

1 PROCEEDINGS taken on this 30th day of August, 2006, at  
2 the Bishop Henry Whipple Federal Building in Fort  
3 Snelling, Minnesota, commencing at the hour  
4 of 9:30 a.m.

5

6           PAUL COMSTOCK: Well, good morning  
7           everybody. And first of all, I want to  
8           apologize, I didn't know -- I wasn't told  
9           that we needed a PA system in the room. I'm  
10          Paul Comstock, chief inspector here, welcome  
11          to the Bishop Henry Whipple Federal  
12          Government Building. I'll give a short  
13          safety briefing just basically so we all know  
14          where to go. If something should occur where  
15          we have to evacuate the building, there will  
16          be an audible and visual warning and we would  
17          ask that you exit out the main hallway, take  
18          a left and go all the way down to the end,  
19          exit the building, there's a garage out  
20          there. Go ahead all the way to the far end

21 of the building. That's the Federal Railroad  
22 Administration meeting spot. So we can all  
23 join together there and sing Kumbaya or  
24 whatever.  
25 The restrooms are right outside of

1 the entryway into the meeting room here and  
2 to your left, so -- in the main hallway. We  
3 have people here and FRA qualified for CPR  
4 and we have the defibrillator machine in the  
5 building so we won't need to worry about that  
6 as far as asking for volunteers. And the  
7 only other thing I ask is could you all set  
8 your pagers or cell phones or anything to  
9 quiet, vibrate or stun or whatever the case  
10 may be so that we have a nice, quiet meeting  
11 and can go on.

12 With that I'm going to introduce  
13 Mr. Grady Cothen, my fearless leader, and  
14 he'll take it from there. Thank you very  
15 much.

16 MR. GRADY COTHEN: Thanks, Paul. The  
17 betting was whether Paul could play that  
18 straight; he's FRA's official court jester  
19 and as you can see, I won.

20 So welcome to this session on

21       this -- safety of private highway-rail  
22       crossings. Thank you for being here. This  
23       is a little bit of an unusual facility for  
24       us, but it looks like it should work out  
25       okay. If you cannot hear during these



1 proceedings, waive your hand, stand up, move  
2 around, take a more comfort-proximate seat,  
3 whatever it takes so that you can participate  
4 in today's events. It'll be no problem at  
5 all with folks gathering around here closer  
6 if that's better for you.

7 My name is Grady Cothen. I'm the  
8 acting associate administrator for safety  
9 standards at FRA and as such I'm in charge of  
10 our regulatory program and am privileged to  
11 chair today. I think probably rather than me  
12 starting with a long speech I'll save it.

13 Let's do some welcomes and introductions.

14 I believe that Lavoy Little and  
15 Mike Long are in the hall. Could you stand,  
16 please? Lavoy and Michael are our deputy  
17 regional administrators for FRA Region 4  
18 headquartered in Chicago which includes the  
19 state of Minnesota. Thank you, gentlemen,  
20 for being here and providing logistical

21 support for the meeting. We appreciate it.  
22 You've met Mr. Comstock. I'm going to ask  
23 Ron Ries to introduce our far flung FRA multi  
24 highway-rail crossing team and can we do  
25 that -- it's a multi-regional team,

1       headquarters, field, Volpe. Could all you  
2       folks stand up and Ron will provide a little  
3       information about your roles. Ron Ries is  
4       our staff director for highway-rail crossing  
5       safety in Washington.

6           MR. RONALD RIES: Good morning. We have  
7       18 people that work in the field when we are  
8       a full complement, work full-time in train  
9       crossing safety trespass prevention. Most  
10      regions have two crossing managers, a  
11      crossing manager and assistant, in each of  
12      our eight regions. And we've recently  
13      augmented Region 4 with another assistant,  
14      and Region 5 which is down in Texas,  
15      Louisiana where there is another position; we  
16      are in the process of filling those now. So  
17      we are fortunate to have a number of our  
18      great policy managers and assistants with us.  
19      Tammy Wagner with Region 4 is the crossing  
20      manager, we hear she was very instrumental in

21 working with Paul getting this facility set  
22 up. Sitting next to her is Chris Adams who  
23 is our region aid for the Pacific northwest  
24 area, our newest crossing manager.  
25 Mr. Bennie Howe is the crossing manager for

1       Region 6 out of Kansas City.  
2       Howard Gillespie assistant crossing manager  
3       for Region 6 as well. And let's see, who  
4       else? Our staff personnel, Miriam Kloeppe  
5       is an operation research analyst that works  
6       out of Washington, D.C. We have -- from  
7       Volpe we have Anya Carroll. We have  
8       Steve Peck in the back. And I knew I would  
9       do this, Perla Garcia also from Volpe. Volpe  
10      is providing the support for our safety  
11      initiative study and they will be making sure  
12      we get the proceedings done and helping us --  
13      or put together all of the information we are  
14      hoping to gather from that.  
15      Ms. Kathy Shelton is an attorney from  
16      Washington D.C. who has the pleasant task of  
17      working with the great safety crossing  
18      issues. She'll be giving us a little  
19      briefing here in just a second. We  
20      appreciate you being here. We know this is

21        sort of a new thing for us as far as looking  
22        at the private crossings. And as we are  
23        getting started we are looking for a lot of  
24        good information. We don't have any answers,  
25        we're not even really sure what the questions

1 are, and so you have a good opportunity to  
2 help provide us with that guidance. Have a  
3 great day and we are looking forward to a  
4 good meeting.

5 MR. GRADY COTHEN: What I would like to  
6 do is introduce Susan Aylesworth, Susan is  
7 the director of railroad administration for  
8 the Minnesota Department of Transportation.  
9 Each of these events we are holding in  
10 partnership with a state DOT or PUC, one of  
11 our state partners in highway-rail crossing  
12 program. The Federal Railroad Administration  
13 does nothing without its public and private  
14 partners, without the contributions of lots  
15 of folks. And in many cases our role is  
16 purely support and we try to give it, but one  
17 of the ways is to stir the pot sometimes and  
18 get some discussion going. Susan, thank you  
19 for joining us in welcoming this group, and  
20 I'll turn it over to you.

21 MS. SUSAN AYLESWORTH: Thanks. I'm here  
22 to welcome you all and when I was asked to  
23 speak, I was told there would be ten people  
24 here, so the joke is on me. I have nothing  
25 prepared, but ten people are easy to talk to.



1           Sometimes with people it's easier to talk to.  
2           Welcome to Minnesota, we are glad you all  
3           came and we are honored to be chosen as the  
4           first of several public meeting locations on  
5           this topic. Just by way of information,  
6           Minnesota has about 2,000, 2,500 private  
7           railroad crossings and this interestingly, we  
8           do have a rule that talks about the  
9           appropriate crossing treatment at private  
10          crossings, it's just that we don't think we  
11          have jurisdiction to implement it. That is  
12          an interesting quirk that may be unique to  
13          Minnesota, but our rules do talk about what  
14          is appropriate at private crossings and  
15          pretty much mirrors what we would expect to  
16          see at a public railroad crossing. One other  
17          issue that we struggle with, and maybe some  
18          of will you speak to this later, is that we  
19          are unsure of what the definition of a  
20          private crossing is.

21                   We oftentimes go out and if the  
22                   public is using a location, we can't be sure  
23                   whether that public use continues on both  
24                   sides of the track and therefore should be  
25                   counted as a public crossing or whether we

1       should defer and leave it as a private  
2       crossing. And sometimes the railroads don't  
3       know that either. So it will be very  
4       interesting to hear what comments people make  
5       and what issues they raise of course with  
6       Quiet Zone this is an issue too so we are  
7       looking forward to this discussion on this  
8       timely topic.

9               Thank you.

10              MR. GRADY COTHEN: Thanks, Susan. I  
11       just wanted to say a few words to sort of get  
12       us going, then I'll ask Kathy Shelton to give  
13       us the legal officer statement. The Federal  
14       Railroad Administration has been promising  
15       now for about a decade to undertake an  
16       initiative on private crossings to try to see  
17       what could be done to help all state and  
18       local partners, public and private move  
19       toward improved safety of highway-rail  
20       crossings. In a moment Miriam Kloeppel will

21 lay out some of the facts for us and they are  
22 not enormously encouraging. We made  
23 significant progress in safety of public  
24 highway-rail crossings over the years, and  
25 we've made moderate progress as well at

1 private crossings driven by railroad efforts  
2 to close unnecessary crossings driven by  
3 improvements in train conspicuity and other  
4 factors affecting people in motor vehicle  
5 operation in the United States.

6 Certainly Operation Lifesaver has  
7 done its part to try to promote awareness.  
8 We've done some things, all of us have in the  
9 areas of education and enforcement over the  
10 years, and we've had some moderate success.

11 But we still -- we still see a persistent  
12 issue at crossings which is not predicted to  
13 abate significantly any absence of further  
14 initiatives from someplace, and so how do we  
15 proceed? I think we have the opportunity  
16 today to begin to get issues on the table to  
17 define what those issues are, what is a  
18 private crossing, is it a good, solid and  
19 favored place to start and I thought I knew  
20 until I tried to get a train horn rule

21 written, and they told me I didn't. If you

22 will help me today, I'd appreciate it.

23 We do not -- we don't have a preset

24 agenda here. Our purpose over the next few

25 months is to go to various locations around

1 the country to hear from folks who have  
2 information and views on the subject, and  
3 then our objective is to put together a plan  
4 of action which would carry forward the  
5 initiative that's described in the  
6 Secretary's 2004 action plan for highway-rail  
7 crossing safety. And there it is described  
8 in very general terms. Where that will take  
9 us specifically, I don't know, whether we'll  
10 need legislation in order to drive it forward  
11 at this point, I don't know. But there is no  
12 better place to start than here and now. So  
13 we ask your participation and indulgence,  
14 your ideas, your thoughts, your criticisms,  
15 whatever you've got. We do have today  
16 several organizations that have signed up  
17 ahead of time. And as a matter of fact, I  
18 believe that as of this hour at least they  
19 are inclusive of all those who indicated  
20 interest on the sign-in sheets. We may have

21 others here as the morning goes on.  
22 When we begin, the testimony  
23 will -- did I say testimony? Introductory  
24 statements, we'll hear from those who signed  
25 up ahead of time. If you haven't indicated



1 your interest in making some kind of opening  
2 statement, feel free to do so. Steve there  
3 at the back (indicating) can help you in that  
4 regard or any one of us here. When we get  
5 through with some general statements,  
6 whatever you want to lay on the table for us,  
7 we'll go to a discussion period. At that  
8 point what I would ask you, for the benefit  
9 of the court reporter and the benefit of us,  
10 is to come and occupy a seat at the table  
11 here, the front table, and utilize that spot  
12 there as long as you want to hold it. And  
13 then when you feel like you've got your --  
14 stated your piece, perhaps open it back up to  
15 someone else who might want to rotate in for  
16 the discussion. And again, please don't feel  
17 compelled by protocol to sit in the back row.  
18 Once we get the presentation out of the way  
19 here, the PowerPoint out of the way, you may  
20 feel more comfortable to bring a chair around

21 and gather in.

22 Okay. Kathy Shelton for the legal

23 officer's statement.

24 MS. KATHRYN SHELTON: Good morning. My

25 name is Kathy Shelton, and I will be the

1 legal officer for today's meeting. The  
2 purpose of this public meeting is  
3 fact-finding. This is the first of a series  
4 of public meetings nationwide in which you  
5 will have the opportunity to provide  
6 information to FRA about issues related to  
7 the safety of private highway-rail grade  
8 crossings. This public meeting is not meant  
9 to be a form for debate. Instead we are here  
10 to listen to you and to provide an  
11 opportunity for you to state your views on  
12 the record for review and consideration. In  
13 order to provide each of you an equal  
14 opportunity to express your views and  
15 comments, the following procedure will be  
16 used. Each person will be permitted to make  
17 an oral statement. However, persons  
18 representing the same organization may speak  
19 as a group.

20 At the beginning of your oral

21 statement, please identify yourself, spell  
22 your name and identify whether you are  
23 appearing in an individual or representative  
24 capacity. It may also be helpful to provide  
25 a business card to our stenographer at that

1 time. At the end, FRA representatives may  
2 ask questions in order to obtain  
3 clarifications of points made during your  
4 statement. We will then move on to the next  
5 oral statement. If you refer to a document  
6 in your oral statement that has not yet been  
7 provided to FRA, please provide a copy of the  
8 document to an FRA representative so that it  
9 can be marked for identification and added to  
10 the public docket.

11 Today's meeting is being  
12 transcribed and will become a part of the  
13 public docket on this issue. The transcript  
14 of this public meeting will be available for  
15 viewing and downloading at the Department of  
16 Transportation's docket management system web  
17 site at [HTTP://dms.dot.gov](http://dms.dot.gov). And please note  
18 the www is not used in the web site address.  
19 The entire public docket on this issue is  
20 also available for inspection at the

21 Department of Transportation docket facility  
22 room which is located at 400 7th Street  
23 Southwest in Washington, D.C.  
24 Thank you. And now for a moment  
25 I'll turn the floor over to Dana, our

1 stenographer.

2 (Off the record.)

3 MR. GRADY COTHEN: Okay. Thank you.

4 The next order of business is an introductory  
5 presentation sort of to put us on somewhat  
6 equal -- common footing. Some would say we  
7 are on equal footing because some of you know  
8 a lot about this subject matter and some of  
9 us don't know as much. But at least to go  
10 over some items of common interest regarding  
11 private crossings. Our presenter is Miriam  
12 Kloeppele who is an operations research  
13 analyst on our grade crossing staff within  
14 the office of safety analysis and FRA.  
15 Miriam comes to the subject matter with a  
16 deep and abiding personal interest having  
17 been, I believe, a principal author of the  
18 NTSB's study on passive crossings in 1988  
19 which generated a lot of this work.  
20 Particularly rewarding to have somebody on

21 staff who now has to fulfill all of the  
22 various mandates that she wrote. With that  
23 in mind, Miriam, if you would, please.

24 MS. MIRIAM KLOEPPEL: Good morning,  
25 ladies and gentlemen. Thank you for coming.



1 I thought I'd prime the conversational pump  
2 anyway by starting with a little background.

3 Private crossing safety has been a  
4 matter of concern to the United States  
5 Department of Transportation and to other  
6 federal agencies for some time. In 1993, the  
7 FRA held an open meeting to initiate  
8 industrywide discussions in its 1994 rail  
9 highway safety action plan. The USDOT  
10 proposed to develop national minimum  
11 standards for private crossings. In its 1997  
12 study on safety at passive grade crossings,  
13 the National Transportation Safety Board,  
14 I'll just call it NTSB for short, highlighted  
15 the need for some system to improve private  
16 crossing safety and recommended that the  
17 USDOT in conjunction with states determine  
18 governmental oversight responsibility for  
19 safety at private crossings. In 1999, the  
20 NTSB weighed in again in its report on a

21 private grade crossing accident in  
22 Portage, Indiana. In this case the NTSB  
23 recommended that the DOT eliminate any  
24 differences between public and private  
25 crossings with regard to funding or

1 requirements for safety improvement.

2 In 2004, the USDOT published an  
3 updated action plan in which the FRA  
4 committed to leading an effort to define  
5 responsibility for safety at private  
6 crossings. Today's meeting is a vital part  
7 of this effort. As you can see, regardless  
8 of the geographic region, private crossings  
9 constitute a significant percentage of all  
10 at-grade crossings. What I did here was I  
11 took numbers that had state-by-state counts  
12 of crossings that I just aggregated them into  
13 FRA geographic regions and if you're not  
14 familiar with our regions, I'll be happy to  
15 go over them at another time, but I just  
16 wanted to illustrate that regardless of where  
17 you are in the country, there is a fairly  
18 high percentage of the crossings that happen  
19 to be private. Total count nationwide is  
20 about 94,000.

21                   Although accidents at public  
22                   crossings have declined considerably over the  
23                   past several years, declining by one-third  
24                   over the past decade alone, the number of  
25                   accidents at private crossings have remained

1 comparably stable, declining only 10 percent  
2 over the past decade. In most years, the  
3 number of fatalities occurring at accidents  
4 at private crossings exceeded the number of  
5 on-duty deaths for all railroad employees in  
6 all rail operations. As an illustration note  
7 of what goes on, here are a few examples.

8 About 1:00 p.m. on May 30th, 2006,  
9 Amtrak train number 350 struck an empty  
10 gravel truck at a private highway-rail grade  
11 crossing near Jackson, Michigan. The train  
12 was traveling about 74 miles per hour with a  
13 cab car in the lead when the truck entered  
14 the crossing in front of the train, one train  
15 crew member and 15 train passengers received  
16 minor injuries in the accident. The truck  
17 driver sustained fatal injuries. The private  
18 road at the accident crossing is used by an  
19 excavating company and by two residences.  
20 And on average, fewer than 30 highway

21 vehicles and a dozen trains, eight of which  
22 are Amtrak, traverse the crossing daily.  
23 It's estimated that the crossing was created  
24 about 1948 and there is no record of any  
25 maintenance contract between the business

1 owner and Norfolk-Southern Railway, the track  
2 owner.

3 About 4:40 p.m. on July 3rd, 2006,  
4 a southbound Amtrak train struck a passenger  
5 vehicle at a private crossing near  
6 Castle Rock, Washington. According to the  
7 Amtrak engineer, the accident occurred when  
8 the motorist entered the crossing after a  
9 northbound Union Pacific train cleared it.

10 Train crew and train passengers received no  
11 injuries, but all four motor vehicle  
12 occupants sustained fatal injuries. The road  
13 leading to this crossing is a county road,  
14 but county maintenance ends shortly before  
15 the crossing. And the private road that  
16 extends beyond the crossing dead-ends after  
17 serving 11 residences. About 60 trains daily  
18 traverse this crossing, and it is not known  
19 when the crossing was created and no  
20 maintenance contract has been located for

21 this crossing.

22 About 7 p.m. on June 21st, 2006,

23 Metro train number 921 traveling south at a

24 recorded speed of 79 miles per hour struck a

25 truck trailer traversing a private grade



1 crossing near Lemont, Illinois. A piece of  
2 the trailer became wedged under the snow plow  
3 of the locomotive and the locomotive derailed  
4 at the crossing. The driver of the  
5 tractor-trailer was not injured. There were  
6 170 passengers aboard the train, five  
7 passengers claimed minor injuries and were  
8 treated and released and no train crew  
9 members reported any injury. This crossing  
10 serves two commercial facilities to which  
11 there is no other access. Roughly 28 trains  
12 and fewer than 30 highway vehicles use this  
13 crossing daily. The crossing is maintained  
14 by Canadian National, but there is no formal  
15 agreement. As an additional note, about six  
16 months prior to this accident another  
17 accident occurred at this crossing. The  
18 truck driver in the accident in December  
19 of 2005 sustained fatal injuries.

20 The FRA maintains a national

21 inventory of all crossings, public, private,  
22 pedestrian, at-grade or grade-separated. The  
23 data are used by many state, federal or  
24 private organizations for research or for  
25 resource allocations determining which

1 crossings are most in need of improvements.  
2 It's updated by the states and by the  
3 railroads on a voluntary, not a mandatory  
4 basis.

5 As you can see, only about  
6 one-third of the records for private  
7 crossings have been updated within the past  
8 five years, and a significant portion of the  
9 records have never been updated. Analysis on  
10 this sort of data will of necessity be  
11 somewhat tentative. And in comparison -- I  
12 don't have the numbers, but the data for  
13 public crossings are typically updated much  
14 more often than this. I don't expect you to  
15 read this whole slide. This is just the shot  
16 of the form on which the data are collected  
17 for the national inventory. Almost all data  
18 on both of these pages are collected for  
19 public crossings, but for private crossings  
20 only the sections that I have shaded are

21 collected. As a result, even when the  
22 private crossing record is up to date,  
23 potentially useful data are not collected.  
24 This slide shows a small sample of the data  
25 collection differences. According to the

1 FRA's 2002 compilation of state laws and  
2 regulations affecting highway-rail grade  
3 crossings, the states' approaches to private  
4 crossings' safety are highly varied. Take  
5 these examples of the extent of control held  
6 over the creation or closure of private  
7 crossings. Here are some examples of the  
8 degree to which traffic-control devices are  
9 standardized at private crossings. In fact,  
10 only two states that I could find in our  
11 compilation listed any kind of control like  
12 this at all.

13 According to, again, the 2002  
14 compilation of state laws and regulations  
15 affecting highway railroad grade crossings,  
16 more than half the states have no laws or  
17 regulations related to private crossings.  
18 The federal government in the guise of  
19 various DOT agencies does offer some  
20 regulations for guidance documents that may

21 touch on safety at private crossings. As you  
22 can see in this sample however, none of these  
23 really covers a significant portion of the  
24 nation's private crossings. For example, the  
25 signal system inspection regulation, 49 CFR

1 part 234, really addresses about one percent  
2 of the private crossings as most of private  
3 crossings are passive. Freight car  
4 reflectorization only addresses probably  
5 fewer than 25 percent of all grade crossing  
6 accidents. And the manual on uniform  
7 traffic-control devices applies to only  
8 public crossings. In fact, there is no  
9 federal regulation or guidance that promotes  
10 safety at private grade crossings by  
11 specifically or uniformly addressing the  
12 special issues presented at private  
13 crossings.

14 Some private crossings may be used  
15 only seasonally like certain farm crossings  
16 used only for agricultural equipment  
17 movements, or they may be used only for  
18 routine personal use like crossings that  
19 serve residences. Other private crossings  
20 such as this industrial access crossing are

21 used extensively for private business  
22 purposes by employees, contractors and  
23 suppliers. In still other cases they may be  
24 used very heavily by the public to enter  
25 commercial facilities. This slide also

25



1 illustrates that in some cases there is no  
2 alternative access provided to the private  
3 property owner. And I hope you can see, in  
4 fact, the crossing that is on Maguire Parkway  
5 which is on the lower middle of the page  
6 there. But that is a couple of businesses  
7 that that's their only access.

8 The rights assigned to the private  
9 crossing holders very greatly. A holder of  
10 the right or privilege to cross may hold  
11 outright ownership of the underlying  
12 property, or they may have a documented  
13 easement over the railroad property. Where  
14 it's recognized, the holder may have a  
15 prescriptive easement or squatters rights.  
16 There may be a documented license under  
17 contract, or there may be a verbal license  
18 which could be subject to revocation without  
19 notice. Railroads may require the crossing  
20 holders to purchase or to provide some other

21 protection in the event of a collision at the  
22 crossing. Contracts or other legal documents  
23 may further define responsibilities such as  
24 maintenance of the crossing surface or  
25 providing notifications under stated

1 conditions. The confirmation and use of  
2 signs, signals, pavement markings and any  
3 other traffic-control devices placed at  
4 public crossings generally conform to the  
5 guidance provided in the manual on uniform  
6 traffic-control devices. In most states,  
7 this is not true of private crossings. The  
8 arrangement of private crossing signs can be  
9 highly individual. I just have a series of  
10 slides here illustrating some of the  
11 configurations that we have found. Sign  
12 maintenance may be somewhat sketchy, or it  
13 may be almost nonexistent. The FRA solicits  
14 discussion and comments on all areas of  
15 safety at private crossings but particularly  
16 encourages discussion on the following  
17 topics: At-grade highway-rail crossings  
18 present an inherent risk to users including  
19 the railroad and its employees as well as to  
20 other persons in the vicinity should a train

21       derail into an occupied area or release  
22       hazardous materials. From the standpoint of  
23       public policy, how do we determine whether  
24       creation or continuation of a private  
25       crossing is justified. How do we determine

1       when a private crossing has a public purpose  
2       and is subject to public use? How should  
3       improvement or maintenance responsibilities  
4       be allocated? Is there a need for  
5       alternative dispute mechanisms to handle  
6       disputes between railroads and private  
7       crossing holders? Should some crossings be  
8       categorized as commercial crossings rather  
9       than private crossings? Should there be  
10      nationwide standards for warning devices at  
11      private crossings or for intersection design  
12      for newly created private crossings? Are  
13      there innovative traffic-control devices that  
14      could improve safety of private crossings on  
15      major rail corridors including those on which  
16      passenger service is provided? Is the  
17      current assignment of responsibility for  
18      safety at private crossings effective? Do  
19      risk management practices associated with  
20      insurance arrangements result in some kind of

- 21 regulation of safety at private crossings?
- 22 Should the state and federal governments
- 23 cooperatively work together to determine
- 24 responsibility and to provide oversight?
- 25 Should the USDOT request enactment of

1           legislation to address private crossings? If  
2           so, what should that legislation include?

3                   As much as I like the sound of my  
4           own voice, I'm actually going to stop here,  
5           but I will leave this slide up here and, in  
6           fact, it's on the last slide of the  
7           presentations there in case any of you should  
8           choose to submit a written statement to the  
9           docket in addition to speaking here today.

10                   Thank you.

11                   MR. GRADY COTHEN: Thank you, Miriam,  
12           for that overview. Appreciate it.

13                   I think we are ready to hear from  
14           our colleagues. I'd like to start if I may,  
15           with at least the first to sign up.

16                   Peggy Baer is a valued colleague  
17           from the Iowa Department of Transportation;  
18           if you are ready.

19                   MS. PEGGY BAER: I just signed up to  
20           come to the meeting. I didn't sign up to --

21           MR. GRADY COTHEN: Do we have others  
22           from state DOTs in the region?

23           Yes, sir?

24           MR. RONALD ADAMS: Ron Adams.

25           MR. GRADY COTHEN: Ron, good to see you



1           again, from Wisconsin. I should have greeted  
2           you earlier. There is one group we can  
3           always count on for a few good words to start  
4           off a discussion, and that's the Association  
5           of American Railroads. They are kind of camp  
6           followers; wherever we go, they show up. And  
7           we are appreciative that Bob VanderClute who  
8           is executive vice president at the AAR has  
9           seemed fit to travel and be with us, and so  
10          let's ask Bob to lead off then.

11           MR. ROBERT VANDERCLUTE: Thank you,  
12          Grady. On behalf of the association and its  
13          member railroads, I want to thank you for the  
14          opportunity to present the railroad  
15          industry's view on private highway-rail grade  
16          crossing safety. Grade crossing safety is  
17          certainly a very important issue, and I think  
18          we certainly covered the highlights very  
19          well. Most fatalities and injuries occurring  
20          at-grade crossings take place at public

21 crossings. However, as the FRA data shows,  
22 there are a significant number of incidents  
23 that occur at private crossings. As the FRA  
24 points out in the notice announcing this  
25 meeting, there is a number of different types

1 of private grade crossings. Consequently  
2 there is no easy answer to the question of  
3 how to reduce the occurrence of incidents at  
4 private crossings.

5 For example, some private grade  
6 crossings are equipped with active warning  
7 devices such as gates, lights and bells as we  
8 have seen. Some private crossings are  
9 heavily used by the general public such as  
10 crossings providing access to shopping  
11 centers or recreation areas. And some  
12 private crossings are for industrial use only  
13 but -- be made by -- might be used by  
14 business employees, contractors and  
15 suppliers. And some private crossings are  
16 used only for the access to a home or a farm.  
17 The frequency with which private crossings  
18 are used can also vary widely. Some farm  
19 crossings, for example, might be used only a  
20 couple of times annually while there are

21 commercial and industrial crossings which are  
22 used by many motor vehicles daily.  
23 Furthermore, as the FRA points out in the  
24 meeting notice, the legal status of private  
25 crossings vary considerably.

1           In many cases railroads have no  
2           authority to close or relocate private  
3           crossings or condition the use on the  
4           institution of appropriate safety measures.  
5           For example, a private crossing may exist as  
6           the result of a deed granted when the  
7           railroad right-of-way was created. Or a  
8           state might require a railroad to grant  
9           farmers "suitable and convenient crossings,"  
10          that they may continue in existence  
11          regardless of the frequency of which they are  
12          used.

13           Another issue is the nature of  
14          private crossings might change without the  
15          analysis of safety implications. A crossing  
16          that might only have been used by a land  
17          owner when first created could turn into a  
18          busy residential, industrial or commercial  
19          crossing later. If the crossing were a  
20          public crossing, a diagnostic team might

21 evaluate the consequences of the change in  
22 use. In the case of a private crossing  
23 however, there is no mandate that such an  
24 examination take place. Typically the users  
25 of private crossings should bear the cost of

1 the safety improvements at the crossing for  
2 the benefit they receive from the crossing,  
3 however, it may be appropriate for public  
4 funding to be provided at private crossings  
5 that resemble public crossings.

6 Finally, in the meeting notice the  
7 FRA asks about the extent to which insurance  
8 arrangements affect safety at public and  
9 private crossings. In the railroad's  
10 experience, insurance requirements do not  
11 drive the safety measures undertaken at a  
12 private crossing. The AAR and its member  
13 railroads look forward to this hearing, the  
14 ideas by others on how private crossings can  
15 be improved. And once again, I thank you for  
16 the opportunity to provide our views to you.

17 MR. GRADY COTHEN: Thanks, Bob. We have  
18 another thankful camp follower with us in the  
19 person of Tim DePaepe who is the director of  
20 research with Brotherhood of Railroad

21           Signalmen. And we want to hear from Tim

22           concerning his research.

23           MR. TIM DEPAEPE: Thank you, Grady. And

24           it is true that Bob and I travel together.

25           We testify at Congress together, we get to



1 sit together a lot. People think that we are  
2 at odds sometimes, but we are not. A lot of  
3 times we are on the same page, and I think  
4 this is one of them. Originally I wasn't  
5 going to speak today, but after reading the  
6 notice, the FRA specifically asked a series  
7 of questions or comments and I felt and the  
8 Brotherhood of Railroads and Signalmen felt  
9 that it would be appropriate to comment on  
10 them. Our first comment is that it's our  
11 position that the FRA should prohibit the  
12 creation of new private crossings and work  
13 toward eliminating as many existing private  
14 crossings as possible. The best way to  
15 reduce accidents and fatalities is through  
16 the elimination of unprotected private  
17 crossings. However, if the FRA determines  
18 that it wants to allow the creation of new  
19 private crossings, then the new crossings  
20 should have at a minimum a set of grade

21 crossing signal system flashing light

22 signals.

23 You also asked about how the

24 improvement in our maintenance costs with

25 private crossings should be allocated. We

1 believe they should be split equally between  
2 the state government, federal government and  
3 the property owner, however, each case should  
4 be evaluated on its own merit. There may be  
5 some cases where the responsibility  
6 allocation should be adjusted. The state and  
7 federal government, for instance, should  
8 split the cost of the crossing warning system  
9 where school bus or other public  
10 transportation entity may utilize the  
11 crossing. You asked specifically should the  
12 state and federal government assume greater  
13 responsibility for safety of private  
14 crossings or the intersection design of new  
15 private crossings. My organization feels  
16 very strongly about that. Even at public  
17 crossings, design flaws have created  
18 terrible -- or resulted in terrible  
19 accidents.

20 Fox River Grove in Illinois is a

21           good example. I mean, that's a public  
22           crossing that had a poor design. And as the  
23           former maintainer on that railroad, I can  
24           speak specifically to that issue.  
25                    The private crossings, they have

1 nothing as your pictures showed, you know, in  
2 some of the cases where you put signage up,  
3 the vegetation covered it. There is nothing  
4 that says you have to cut vegetation at a  
5 private crossing. But we believe the state  
6 and federal government should assume greater  
7 responsibility, you know, clearly by -- if no  
8 other reason, by the amount of fatalities  
9 that are happening. Not only are you killing  
10 the general public; as you alluded to, the  
11 train crews, the engineers or conductors are  
12 the first ones that are usually -- sometimes  
13 the only ones that get killed at crossings.  
14 Then you have the hazmat release which  
15 creates even a bigger problem. There are way  
16 too many accidents and an unacceptable number  
17 of fatalities along with them. Again, we  
18 can't reiterate enough, we believe that no  
19 private crossing should be created in the  
20 future unless they are equipped with active

21 crossing warning devices. And we also  
22 believe there should be nationwide standards  
23 for warning devices at private crossings and  
24 for intersection design. As Miriam's slides  
25 show, we believe they should be patterned

1 after the standards contained in the Manual  
2 on Uniform Traffic Control Devices, Part 8  
3 which is subtitled Traffic Controls for  
4 Highway-Rail Grade Crossings. By taking this  
5 action, the users of the private crossings  
6 will be conditioned to respond to the stimuli  
7 that they encounter at other highway-rail  
8 grade crossings. We believe that there  
9 should be consistency in the message for the  
10 warning so that if there are public or  
11 private they get the same message and they  
12 take -- they take the same behavior.

13 You asked about how do you  
14 determine when a private crossing has a  
15 public purpose and subject to public use.  
16 It's our position that a private crossing  
17 should be defined as one used by a sole land  
18 owner or lessee. Once any other individuals  
19 routinely use the crossing, it should no  
20 longer be considered a private crossing but

21 as a public crossing. You talked about  
22 commercial crossings rather than private  
23 crossings. As the organization that  
24 represents the men and women that maintain,  
25 install and repair public grade crossing



1 warning devices, we are very familiar with  
2 what you are terming commercial crossings.  
3 Oftentimes the only vehicular traffic on a  
4 private crossing will be trucks servicing a  
5 local industry; for example, cement trucks  
6 going in and out of a stone quarry next to  
7 railroad tracks. We believe it's imperative  
8 that any private crossing that serves an  
9 industry should be held to the same standards  
10 for the highway-rail grade crossing signal  
11 system requirements. Due to the types of  
12 trucks and materials that they carry, the  
13 severity of an accident at these crossings  
14 would be greater than an accident between a  
15 car and a train. Trucks carrying hazardous  
16 materials pose an even greater danger.

17 You also -- you asked about  
18 innovative traffic control treatments that  
19 can improve safety at private crossings on  
20 major rail corridors. There is a lot of

21 things out there that a lot of people are  
22 trying to do to improve protection of  
23 passenger crossings. In our opinion they are  
24 not quite there yet. They don't offer the  
25 level of protection that improving technology

1 does, you know, the simple flashers, the  
2 signal system flasher arrangement that's out  
3 there now. Some of the things that they are  
4 proposing that ITS America is doing, pilot  
5 projects, they are innovative, but again they  
6 are not practical at this time. We believe  
7 you should stick with proven technology and  
8 utilize that.

9 We finally ask: Should the DOT  
10 request enactment of legislation to address  
11 private crossings? We believe they should  
12 request enactment of legislation to address  
13 private crossings. There is not enough being  
14 done to reduce accidents and fatalities at  
15 private crossings. At a minimum, the  
16 legislation should include the site-line  
17 distances signage requirements and grade  
18 crossing signal flashing light signals. We  
19 are killing too many people, and we believe  
20 that the DOT should step up and start taking

21 care of it.

22 On behalf of my president,

23 Dan Pickett, I appreciate the opportunity to

24 speak here, and I would be willing to answer

25 any questions that anyone may have.

1 MR. GRADY COTHEN: Thanks, Tim. We  
2 appreciate you addressing those issues.  
3 Competing for the greatest distance traveled  
4 to come to this meeting is Ms. Patty Abbate  
5 as director of Citizens for Rail Safety.

6 Patty, can we here from you now?

7 MS. PATRICIA ABBATE: Sure. Thank you.  
8 I want to thank you all for the opportunity  
9 this morning. It's my pleasure to be here,  
10 and I look forward to a great discussion  
11 after all the statements are out. I'm with  
12 Citizens for Rail Safety. We are a national  
13 nonprofit based in Massachusetts that deals  
14 with all kinds of safety issues.

15 For far too long rail grade  
16 crossing safety at private railroad crossings  
17 has been a neglected issue on a national  
18 scale. According to FRA records, there are  
19 more than 94,000 virtually unregulated  
20 private crossings in the U.S. today. Most of

21        these crossings have little more than a  
22        crossbuck or stop sign to alert an  
23        approaching motorist or pedestrian. In fact,  
24        fewer than 2 percent of private crossings are  
25        equipped with any kind of accurate warning

1 device. Despite the fact that the number of  
2 private grade crossings has been steadily  
3 declining since 1975, with 34 percent fewer  
4 crossings today than 30 years ago, the number  
5 of casualties is increasing at these sites.

6 The subject of railroad safety of  
7 these railroad crossings remains such a  
8 critical issue that we at Citizens for Rail  
9 Safety are currently working with professors  
10 and researchers at the University of  
11 Tennessee in a study that is exploring this  
12 very subject. Findings and recommendations  
13 from this study will be released in the fall  
14 of 2006. Along with the Federal Railroad  
15 Administration, we recognize that private  
16 railroad grade crossings present a unique set  
17 of challenges where safety is concerned. The  
18 lack of a uniform approach to safety for the  
19 nearly 100,000 private railroad crossings  
20 continues to be one of the main reasons why

21 we are still faced with a conundrum of how to  
22 ensure safety at these sites. Unfortunately  
23 accidents and deaths at private crossings  
24 continue to occur. Just three weeks ago  
25 today on August 16th one teenager died and



1 three of her friends were hospitalized when  
2 the car they were traveling in was hit by a  
3 train at a private crossing in Rome, New  
4 York. Police reports indicate that the  
5 tracks had no warning lights or gates.  
6 However, the site did have a stop sign almost  
7 nearly completely covered with foliage and a  
8 crossbuck was posted as well. According to  
9 police, the crossing was used as an access to  
10 a quarry near a river where people visit to  
11 park or walk the trails. In this incident,  
12 the private crossing was known to be used not  
13 just by property owners, but by others as  
14 well on a regular basis.

15 In a case like this, who is  
16 ultimately responsible for the tragic  
17 accident; the property owner, the railroad,  
18 the local government, the federal government,  
19 the driver of the car? The conundrum  
20 continues. And for the families of the

21 victims, there is no resolution. As we  
22 continue to study safety issues of private  
23 highway-rail grade crossings, we must keep in  
24 mind that the railroads, both freight and  
25 passenger, are increasingly becoming more

1 important to our national economy. The rise  
2 in rail traffic that economists predict over  
3 the next decade will further put safety  
4 issues to the test at these private  
5 crossings. At this time, it is critical that  
6 we find a solution to the growing safety  
7 concerns that loom before us here. We also  
8 recognize that all private crossings are not  
9 created equal. Some are used infrequently  
10 and others are used so extensively that the  
11 term "commercial crossing" should be used  
12 instead of private crossing. Private  
13 crossing rights vary from crossing to  
14 crossing with legal rights of ownership and  
15 usage blurred.

16 But despite the differences in  
17 traffic volume, despite the differences in  
18 legal rights, despite the differences in  
19 ownership, it is clearly time for  
20 responsibility to be assumed and for safety

21 to become a priority at our private  
22 highway-rail grade crossings. Active warning  
23 devices have contributed to the decrease in  
24 casualties at public highway-rail grade  
25 crossings, so it stands to reason that the

1 introduction of lights and gates will also  
2 increase safety at private crossings. As the  
3 railroads, government, private industry and  
4 citizens take a closer look at this  
5 situation, together we need to consider  
6 revisiting a recommendation made back in '99  
7 to treat private crossings the same as public  
8 crossings with all the same safety  
9 regulations in place. We need to explore  
10 public private governmental partnerships to  
11 ensure that the most dangerous private  
12 highway-rail grade crossings are protected  
13 with active warning devices.

14 We need to actively eliminate the  
15 number of private crossings whenever  
16 possible. We need to create an atmosphere of  
17 cooperation and shared responsibility so that  
18 private crossings will get the attention to  
19 safety that public crossings have. It is not  
20 acceptable for dangerous private highway

21 grade crossings that are frequently used by  
22 the public to be identified with only a stop  
23 sign that is obscured by foliage. There must  
24 be action taken, responsibility assumed and  
25 safety regulations created and enforced so

1           that we can reduce the number of accidents,  
2           injuries and deaths that occur at these  
3           private highway-rail grade crossings.

4                     Thank you.

5           MR. GRADY COTHEN: Thank you. I tried  
6           to prepare folks who called in and let us  
7           know they were coming with the signup list  
8           today and those who indicated an interest in  
9           speaking today in terms of an initial  
10          statement. And anyone is free, of course, to  
11          speak during the discussion period. Anyone  
12          is free, whether signed up or not, to make an  
13          initial statement. I don't find others  
14          signed up to make initial statements, but  
15          that may be because I'm misunderstanding what  
16          I have in front of me. Is there anyone else  
17          that would like to just lay out issues, views  
18          or concerns at the outset? I see a number of  
19          my friends and colleagues from the railroad  
20          industry that I know and I know that there

21 are others here that I have not met  
22 previously who are very knowledgeable on the  
23 subject matter. So they are certainly  
24 encouraged to speak. The ignorance of your  
25 government is beyond reproach unless you do.



1 Let me offer a few more things as openers, if  
2 you will, and then we'll take a courtesy  
3 break here and return for some discussion.

4 Part of this is: How do we  
5 organize this activity going forward, because  
6 I know your organization will be interested  
7 in it and as it proceeds to the next venue  
8 and moves toward some kind of conclusion.

9 First of all, let me remind you of the  
10 recommendations of the National  
11 Transportation Safety Board's report. In  
12 Miriam's mind, it was a 1997 report, but  
13 that's because it took her nearly a year to  
14 get it cleared; something that we bureaucrats  
15 know a lot about. Here are some key  
16 recommendations. There were a number of  
17 recommendations, and I certainly won't read  
18 all of them that were addressed in a number  
19 of organizations.

20 Here are some key recommendations:

- 21        Modify the grade crossing inventory system to
- 22        include information on the site distances
- 23        available to a motorist and presence of
- 24        curves on the roadway and on the tracks;
- 25        direct the states to include these data as a

1 part of regularly scheduled updates of the  
2 database. That's what's known, Susan, as an  
3 unfunded mandate.

4 For the board, it's a  
5 recommendation for us, it's an unfunded  
6 mandate. I would say that we have going on  
7 now the conclusion of an Office of Inspector  
8 General investigation at FRA that also asked  
9 us to look at the issue of additional data  
10 elements that would help us better understand  
11 why some of these events are according both  
12 at private and public crossings. So I think  
13 it's a very topical issue. We've had this  
14 NTSB recommendation too long already and are  
15 about to get further recommendations from  
16 Inspector General going generally to that  
17 same complex of issues. There are related  
18 issues. FRA tries to maintain a GIS database  
19 that includes the location of public and  
20 private crossings. It's been a challenge for

21           our folks in the office of policy to do that  
22           over the years. Railroads, major freight  
23           railroads have their systems, by in large,  
24           GIS mapped to a very high degree of  
25           resolution. However, those databases are not

1 available to us by in large.

2 We also have a very old, old Rail  
3 Garrison database which has some information  
4 which is still relevant but other information  
5 that's no doubt badly out of date. Another  
6 recommendation from the board, install within  
7 two years of receiving federal funding stop  
8 signs at all passive grade crossings unless a  
9 traffic engineering analysis determines that  
10 installation of the stop sign would reduce  
11 the level of safety at a crossing. Crossings  
12 where conditions are such that the  
13 installation of stop signs would reduce the  
14 level of safety should be upgraded with  
15 active warning devices or should be  
16 eliminated. Since the board's  
17 recommendation, the Federal Highway  
18 Administration and FRA have made additional  
19 efforts to clarify the department's position  
20 on use of stop signs and at public crossings

21           where the Federal Highway Administration has  
22           direct interest, there is encouragement to  
23           look at the use of stop signs, but with the  
24           crossbuck being still the basic unit.  
25                    Subsequent to that; and by the way,

1 Ron can correct me, but my memory of this  
2 situation is that the last analysis we did is  
3 that placement of stop signs has the effect  
4 overall, lots of crossings, of probably  
5 reducing the risk of crossing on the order of  
6 20 percent. And that's kind of a historical  
7 number and does not include locations where  
8 there's active enforcement. Obviously it's  
9 private highway-rail crossings. The issue of  
10 getting active enforcement is a much bigger  
11 one and indeed a lot of the resistances occur  
12 on the highway side to the use of stop signs  
13 and crossings in addition to the danger of  
14 rear-end collisions at those locations has  
15 been related to the concern over how much  
16 active enforcement there would be at those  
17 locations to the extent to which motorists  
18 heeding of stop signs might be diluted by the  
19 failure of enforcement. So here we have the  
20 board saying: Go do a traffic engineering

21 study, place a stop sign there unless it is  
22 unsafe to do so. And if it is, you really  
23 need to go to active warning devices or close  
24 the crossing which is a -- staking out a  
25 position that's different than the kind of



1 position generally applied at public  
2 highway-rail crossings, but the board was  
3 saying this for both public and private  
4 crossings in the passive crossing study. And  
5 then of course another recommendation would  
6 be the enforcement issue.

7           Something that we try to reinforce  
8 actively, a law enforcement liaison,  
9 enforcement of all signage at highway-rail  
10 crossings, but it's very difficult to get  
11 cooperation on obviously a private crossing  
12 setting for obvious reasons. Are you puzzled  
13 yet? We are.

14           Here is another one, and I think it  
15 will apropos some of Miriam's slides,  
16 evaluate periodically, at least every five  
17 years, all passive grade crossings to  
18 determine compliance. And this is the  
19 state's personal response, second and third  
20 year to the state. Evaluate periodically all

21 passive grade crossings to determine  
22 compliance with existing guidelines of the  
23 Federal Highway Administration and AASHTO  
24 regarding site distances, angle of  
25 intersections where the roadway meets the

1 track, curves on the roadway or tracks and  
2 nearby roadway intersections. Those  
3 crossings determined not to be in compliance  
4 with the guidelines initiate activity to  
5 bring these crossings into compliance  
6 wherever possible. Action item for one of  
7 our subsequent meetings would be to get some  
8 briefing on the AASHTO standards which are --  
9 perhaps I'm the only one in the room that  
10 needs help on that. I certainly could use a  
11 refresher. Where passive crossings cannot be  
12 brought in compliance for reasons such as  
13 permanent obstructions at the stop line,  
14 target those crossings for installation of  
15 active warning devices, grade separation at  
16 closure. Aren't you glad I'm not reading all  
17 of the recommendations. Here is one to the  
18 departmental agencies, AAR and APTA, American  
19 Public Transportation Association:  
20 Participate and cooperate fully with the

21 development of intelligent transportation  
22 systems that will be able to alert drivers of  
23 an oncoming train at passive grade crossings.  
24 I would like to say that in the intervening  
25 years, we really narrowed in on solutions

1 with regard to innovative devices. The FRA  
2 has been involved in this region in this  
3 state and the demonstration of an innovative  
4 warning system which have been placed at  
5 previously passive designed crossings and  
6 activated through GPS train location. And  
7 that's a really simple description of the  
8 technology. It was conducted under very  
9 careful FRA scrutiny, including  
10 Mr. Abie [ph.] and Mr. Comstock back there.  
11 And it looked like it produced some  
12 interesting results. There is a major vendor  
13 now that's talking about commercialization of  
14 that product, and we expect to see a product  
15 safety plan from that vendor on that  
16 technology before long under the -- our  
17 processor based rule. The board's passive  
18 crossing study is available on their web site  
19 and I would encourage anybody who hasn't read  
20 it or hasn't read it lately to go back to it

21 as an extremely useful resource. Let's take  
22 a break and return in 15 minutes which I  
23 think would be about ten minutes before the  
24 hour, and then we'll resume with discussion.  
25 If you would like to participate, feel free

1 to occupy a place at the table. If you feel  
2 you will not be wanting to participate in the  
3 discussion, if you could free up a spot, that  
4 would be great.

5 Thank you.

6 (Recess.)

7 MR. GRADY COTHEN: We've got in this  
8 room people from the railroads who are out  
9 there wrestling with this issue every day,  
10 closing crossings, getting agreements,  
11 talking to engineering to get some brush  
12 cleared and on and on and on. And a lot of  
13 you folks know what we need to know. So we  
14 encourage any of you who can to come to the  
15 table. Ron Adams has come to the table from  
16 the State of Wisconsin. I'd like to have a  
17 really productive and realistic discussion.  
18 The more realistic the discussion is, the  
19 more realistic our response will be. So you  
20 were warned. Okay. We are back on.

21 Paul, do you want to, for the  
22 people who didn't find coffee earlier, do you  
23 want to tell them about the cafeteria  
24 facilities we have available and see if you  
25 can determine how many people want to use



1           them when we get to a breaking point here a  
2           couple of hours from now, or whenever it is  
3           that we are going to break.

4           MR. PAUL COMSTOCK: Well, actually 11:30  
5           would be about the best time to go for lunch.  
6           If you go right back by the elevators in the  
7           opposite direction there is a cafeteria in  
8           there. They do have a smoking area and there  
9           is a patio outside if you want to get some  
10          fresh air, ice water, coffee, the whole  
11          thing. Sandwiches, salad bar, entrees.

12          MR. GRADY COTHEN: How many people are  
13          likely to use the cafeteria facilities here  
14          just so we can warn them.

15          (Off the record.)

16          MR. GRADY COTHEN: Anya Carroll has  
17          passed out for you the list of questions from  
18          the public notice. And what we thought we  
19          would do as a first run at it, and we'll  
20          perfect this act as we continue to the next

21 stop on the road hopefully, is to do a  
22 general survey of these questions and try to  
23 get your thoughts on the subject matter. I  
24 don't know how many of you remember  
25 Gil Carmichael, but if you were in and about

1 the railroad industry at the time, I'm sure  
2 you do. And Mr. Carmichael was our  
3 administrator during the first Bush  
4 administration and -- George Herbert Walker  
5 Bush administration, and Mr. Carmichael would  
6 always surprise us by saying that you  
7 wouldn't build a road across a runway, would  
8 you? And you know it was a startling obvious  
9 observation, but his next point was always  
10 that the railroads are highways of interstate  
11 commerce, and really it's not a good way to  
12 plan your transportation system to have a  
13 grade crossing every mile. And of course  
14 it's not. It's not a good thing for railroads  
15 or communities, it causes us to disburse our  
16 resources and have a difficult time  
17 addressing safety needs at each of those  
18 locations rather than being able to focus on  
19 a smaller number of locations, but here we  
20 are. This is where we find ourselves still

21 even after all the efforts of the railroads  
22 and all the abandonments and consolidations  
23 and so forth and so on, with probably in  
24 excess of 90,000 private highway-rail  
25 crossings. So the first question has to do

1 with how do we determine whether creation or  
2 continuation of a private crossing is  
3 justified. And obviously we don't want  
4 anybody's property to be landlocked, and if  
5 there is insufficient alternative access, I  
6 think most of us would recognize that that's  
7 a legitimate concern that we've got to take  
8 into consideration. But being landlocked and  
9 inconvenienced are two different things, and  
10 I know that's a good part of the discussions  
11 that goes on.

12 Who would like to be first out on  
13 this topic? Anya and Steve will take some  
14 notes for us.

15 MR. ROBERT OPAL: Bob Opal, Union  
16 Pacific railroad, law department. Let me  
17 just make one observation on this question.  
18 One of the problems is that in most areas of  
19 the country there is not a decision-making  
20 process for whether a private crossing is

21 justified. The -- typically the decision --  
22 in the public crossing area, the decision of  
23 whether a public crossing is necessary and  
24 what it should look like is typically  
25 something that is done by a state regulatory

1 commission of some kind. But in most states,  
2 they don't do that with respect to private  
3 crossings. They don't decide whether a  
4 private crossing is necessary, or not  
5 necessary, what it should look like, whether  
6 it should still exist, whether it should be  
7 closed. So there really isn't a coordinated  
8 decision-making process for making the  
9 decision as to whether the creation or  
10 continuation of a private crossing is  
11 justified. To the extent there is a  
12 decision-making process, it tends to be state  
13 courts, real estate property law concepts  
14 like easements, prescriptions like you saw on  
15 your slide, but not a -- with a few  
16 exceptions, not an overall decision-making  
17 process as to whether the crossing should  
18 exist like you see in the public crossing  
19 area. Lack of process; typically because the  
20 agencies do not have jurisdiction.

21           MR. GRADY COTHEN: Nobody is required to  
22           answer any question asked, okay. And Bob  
23           knows that better than anybody. Would the  
24           Union Pacific have criteria that you would  
25           try to apply when someone steps forward with



1 a request for a new crossing?

2 MR. ROBERT OPAL: I would think Dave  
3 would have to answer that. Generally, we  
4 wouldn't be very receptive.

5 MR. GRADY COTHEN: I understand. We do  
6 have a docket -- to know that to make  
7 statements at public proceedings we do have a  
8 public docket and any thoughts that the  
9 railroads have as to the considerations that  
10 they look at in deciding whether or not to  
11 let somebody open a crossing. I'm sure in  
12 some cases, the prospective holder of this  
13 right to cross probably owns the underlying  
14 real estate and doesn't -- you know, perhaps  
15 not so much in the west, but certainly in the  
16 east it's not easy for the railroad to say  
17 no. But if you have considerations that  
18 you've applied that include public interest  
19 considerations beyond the safety of your  
20 operations, which certainly is an important

21 one, that might be of interest.

22 MR. TIM DEPAEPE: Tim DePaepe,

23 brotherhood of Railroad Signalmen. There has

24 got to be a process, Grady, because there are

25 many locations, for example, by our

1           headquarters in Front Royal, Virginia, there  
2           is five private crossings before a public  
3           crossing, and it's within -- I don't even  
4           think it's a mile. And they have signage up  
5           at each crossing. I mean, there is no reason  
6           to have these five crossings there. I mean  
7           it would be nothing just to put one access,  
8           maybe put gates or flashers at it to protect  
9           it better, and then you've just eliminated  
10          five private crossings. But I'm not aware of  
11          any process out there that would get the  
12          different parties that have the different  
13          access together to come to a decision to  
14          eliminate them, but there should be a process  
15          in place where you can do things like that.

16                 MR. GRADY COTHEN: Do you think -- Tim,  
17                 certainly that's better to carry out at the  
18                 state level, right?

19                 MR. TIM DEPAEPE: If you can keep the  
20                 feds out of it, you are much better off.

21 MR. GRADY COTHEN: Well, we have

22 unanimity at the table then -- maybe not.

23 MS. SUSAN AYLESWORTH: Susan Aylesworth,

24 Minnesota DOT. We have attempted to close

25 public crossings in the state of Minnesota

1 and with limited success, certainly. And  
2 even though we have a very specific process  
3 to do it, generally speaking, the  
4 administrative law judge recommends that the  
5 crossing be created. Fortunately we have  
6 gotten them to agree to lights and gates at  
7 all of those crossings, but still we're  
8 creating crossings. We probably create as  
9 many crossings as we close so we're probably  
10 doing net zero right now. And the closures  
11 don't often come with the openings. In other  
12 words, we might negotiate a crossing that's  
13 closed in one location, we'll have one that's  
14 requesting an opening in another. And so I'm  
15 thinking that if it's that hard to close a  
16 public crossing then, how much harder would  
17 it be to close a private one. Some of it is  
18 a resource question, because to -- I'm  
19 involved in a hearing right now, we are going  
20 into our third day on the opening of a public

21 crossing and there is at least one additional  
22 day beyond the testimony. So that's four  
23 days, lots of witnesses, a lot of money going  
24 into requesting that this crossing be opened.  
25 And while I can't predict the

1 outcome, as you can see it's a  
2 labor-intensive process, so I would suggest  
3 that a closure would involve as many days and  
4 as many witnesses. And who is going to bear  
5 the cost of that?

6 MR. RONALD ADAMS: Ron Adams, Wisconsin  
7 Department of Transportation. We are not the  
8 regulatory agency with jurisdiction to close  
9 crossings in Wisconsin, public or private in  
10 Wisconsin. Our only involvement with private  
11 crossings is our state law that says the  
12 railroads have to provide suitable and  
13 convenient farm crossings. That  
14 definition -- the wording "farm crossing" is  
15 misleading because statutorily -- by the  
16 courts, it's been interpreted to be anything  
17 other than a public crossing for any purpose,  
18 so it makes it difficult. A lot of the  
19 private crossings are out there for historic  
20 reasons, either they were given by the

21 landowner -- given to the landowner as part  
22 of the deal the railroad cut to initially  
23 have their line crossing his property. In  
24 some cases, it's -- they were created by  
25 inaction on the railroad's part of paying



1 attention to what's happening on their  
2 property, quite frankly. And the other  
3 difficulty if you want to change the  
4 character of the crossing in Wisconsin, we  
5 have -- the public has jurisdiction only when  
6 a crossing is going from a public access,  
7 public highway to a public road.

8 And so if public maintenance stops  
9 before the crossing, then it becomes a -- it  
10 is a private crossing. And in some cases  
11 those continuations of roads don't meet any  
12 public standards for the roadway, so the  
13 local road jurisdiction doesn't want them.  
14 They don't want the responsibility, not only  
15 for the crossing, but they don't want  
16 responsibility for maintaining the road in  
17 the future because it doesn't meet even  
18 minimal standards. Because in a lot of  
19 cases -- in some cases maybe, the  
20 construction of it was such that it was truly

21 a private entry into a small area at first  
22 that has changed the character over time.  
23 And I would argue that in some cases that  
24 character has changed without the railroads  
25 paying attention to it even if they had

1 permitted that crossing initially, they  
2 didn't keep up with what the changing  
3 character was going -- character rather  
4 was -- how it was changing over time, to see  
5 if it met their standards or the contract  
6 that they had in place if they had one in  
7 place.

8           So it's difficult now to go in and  
9 say this crossing that's been there for 100  
10 years is now a concern of the public even  
11 though the character has changed greatly and  
12 you have to find parties that are willing to  
13 accept other responsibilities. It's not just  
14 the service of the crossing or just warning  
15 devices. And if you put warning devices at  
16 a -- what is now a private crossing, whose  
17 responsibility are they? Is the railroad  
18 just going to say: Okay, we will give you a  
19 fee from our system as we do an  
20 interconnected highway railway signal devices

21           where we've got traffic signals, and someone  
22           else maintains them. And then do FRA rules  
23           apply to that other private maintainer that  
24           might be out there. So it's not just a  
25           simple matter of saying this private crossing

1 is now a public crossing, there is a host of  
2 things that go with it.

3 MS. PEGGY BARE: In Iowa we don't have a  
4 regulatory body that regulates crossings and  
5 the state DOT is only responsible for our  
6 crossings on the state system which is a very  
7 small part of the total. So if the whole  
8 issue of opening and closing crossings really  
9 falls back to the local highway jurisdiction  
10 and the railroad, and that often results in a  
11 lot of discussion, but frankly 95 percent of  
12 the time or more the local highway authority  
13 doesn't have the political will to close a  
14 crossing even if they know it's the right  
15 thing to do.

16 If one citizen complains, that  
17 crossing will stay open. That's a tough  
18 thing to -- it's just impossible to deal with  
19 in our state.

20 MR. RONALD ADAMS: I think another thing

21        somebody mentioned, well, separate them.  
22        Well, grade separations are extremely  
23        expensive, there are few pots of money that  
24        can really be used for grade separation  
25        either at the state or the federal level.

1       It's extremely difficult to get one in,  
2       especially in an urban area, you pay  
3       tremendous difficulty in doing that. Even in  
4       rural areas it's difficult to find the  
5       topography that makes it cheap to do it. So  
6       you're looking at a large expenditure of  
7       funds to separate any -- quite frankly, we're  
8       going to focus on the ones that have the most  
9       highway traffic. And so even if we could  
10      spend money on other ones, there are other  
11      crossings out there that have a much higher  
12      payback for taking proactive actions on.

13      MR. JAMES KIENZLER: Jim Kienzler, I'm  
14      director of regulatory affairs for Canadian  
15      Pacific, and I'm located out of Calgary,  
16      Alberta. Recognizing that Canadian  
17      legislation is very different and the  
18      regulatory schemes are different, Transport  
19      Canada currently has two initiatives that are  
20      relevant to this, they are continuing to

21 draft grade crossing regulations that include  
22 some safety jurisdiction over private  
23 crossings. They use different terminology  
24 than you use in here, but they have separated  
25 them between restricted and unrestricted



1 private crossings. They are drafting grade  
2 crossing regulations as we speak that have a  
3 decidedly different approach toward what they  
4 term restricted and unrestricted private  
5 crossings. Those regulations and the  
6 underlying engineering standards are  
7 available through their web site, and I would  
8 recommend this group review those if they  
9 have it.

10 Secondly, they have contracted with  
11 some consulting firms, IBI Group and UMA  
12 Engineering, to do an extensive study of  
13 private crossing safety. Again, I would  
14 refer you to look at that. They just issued  
15 an interim report, it deals with many of the  
16 same issues and concerns. Again, different  
17 legislative powers, different regulatory  
18 schemes. For instance, there are laws in  
19 Canada that have an appeal and binding  
20 arbitration process for private landowners

21           and railways in dealing with crossing access

22           and crossing locations. I think it's worth

23           you looking at.

24           MR. GRADY COTHEN: We will do that.

25           I've had some conversations with our

1 colleagues at Transport Canada in the past on  
2 the subject and need to refresh our status on  
3 that. Thank you.

4 MS. SUSAN AYLESWORTH: Grady, I'd like  
5 to just comment about the cost issue for a  
6 moment. When I arrived in Minnesota about  
7 four-and-a-half years ago using our pot of  
8 money from the Section 130 program, we were  
9 able to construct approximately 40 upgrades  
10 to grade crossings per year. Now, we are in  
11 2006. And although our pot of money has  
12 increased somewhat, the percentage of that  
13 amount has left it almost the same as it was  
14 in the past. In other words, the federal  
15 government is not giving us the full amount  
16 that was allocated. We are getting, I think,  
17 85 percent of that. We are only able to do  
18 about 28 crossings per year at the current  
19 costs which have gone up significantly. So  
20 as you can see, we are falling behind. There

21           are approximately 1,500 active warning  
22           devices in Minnesota leaving about 3,000  
23           public grade crossings without active warning  
24           devices.  
25           If we were to add the approximately

1       2,000 private crossings to that list, several  
2       generations would be upgrading crossings at  
3       the rate of 25 or fewer per year. So it's  
4       some of -- the prospective of what we are  
5       faced with is the economic reality our state  
6       does not allocate additional funds for grade  
7       crossing safety with the exception of a small  
8       pot of money, half a million a year that is  
9       generated from fines collected by the state  
10      patrol. So we are able to add that to our  
11      allocation, but it still leaves us with very  
12      few projects and very little that we can do.  
13      Certainly we don't have enough money to do  
14      any grade separations with this fund unless  
15      we were able to allocate the entire amount to  
16      a grade separation. So just as some  
17      perspective of what the state is really able  
18      to do. And in addition, from a resource  
19      perspective, I think it's fair to say that  
20      our state has reduced our staff sufficiently

21           that I don't think we could meaningfully  
22           inventory or keep track of private crossings  
23           in addition to the public ones.

24                       We are struggling to keep up with  
25           the demand of the staffing that we have. So

1 I think that is another issue that needs to  
2 be recognized. I don't think our private  
3 crossings have been inventoried any more  
4 recently than the FRA database has received  
5 the information. I believe there was a  
6 comprehensive inventory done in the early  
7 '90s, that may be the extent of it on private  
8 crossings.

9 MR. WILLIAM BROWDER: Bill Browder from  
10 the AAR. To add to Tim DePaepe's statement,  
11 and you may hear this in North Carolina, but  
12 just to see that a -- it gets to your  
13 attention in terms of numbers of private  
14 crossings, that same railroad and North  
15 Carolina DOT worked both very diligently in  
16 the early '80s to close a series of private  
17 crossings of a tank farm at Friendship, North  
18 Carolina, Piedmont Triad Airport without any  
19 success at all.

20 And in October of 1987, even though

21 the railroad had imposed a ten mile-per-hour  
22 speed limit through that particular section  
23 past Chimney Creek Road, a train hit a  
24 tanker, and it incinerated a set of five  
25 engines and the five crewmen that were on



1 board. And shortly thereafter, there were  
2 some additional negotiations and a program  
3 such as Tim described was empowered through  
4 public demand for such a program. But the  
5 railroad and the state had been unsuccessful  
6 in initiating and they were even willing to  
7 pay for it at that time because it was such  
8 an issue for them.

9 Thank you.

10 MR. RONALD ADAMS: Following up on Susan  
11 and Ron Adams, about the numbers of  
12 crossings. In Wisconsin at the beginning of  
13 the year we had just over 4,100 public  
14 at-grade crossings. 723 had gates and  
15 lights. 1,100 had flashing lights or another  
16 active warning device out there. We had  
17 2,383 private crossings. Something to do  
18 with it at some point in time if something is  
19 changed, a lot of ifs in there. Our  
20 legislative this year passed a law mandating

21           the installation of yield signs at all  
22           passively signed crossings that don't have  
23           stop signs at them, and the railroads are  
24           working diligently to get those installed,  
25           and several of them have them installed now,

1 by July 1st, 2007. Again, because of the --  
2 at public crossings, didn't do anything with  
3 private crossings because we don't have  
4 jurisdiction there. But to try and raise  
5 awareness that the people are supposed to pay  
6 attention to those crossbucks out there which  
7 railroads report they don't always do. Any  
8 more than they pay attention to stop signs in  
9 rural areas. It's not a -- the grade  
10 crossings are not a unique intersection. We  
11 have about 120 crashes at highway-railway  
12 intersections a year, it's somewhere in the  
13 order of 8,000 to 10,000 crashes at  
14 highway-highway intersections. So as I like  
15 to tell people when talking to them about  
16 highway railroad intersections, drivers do  
17 dumb things at intersections and it doesn't  
18 matter if it's a highway-highway intersection  
19 or a highway-rail intersection.

20 MR. TIM DEPAEPE: I've got to speak on

21           that issue about yield and stop signs. No  
22           one has been able to show me any data that,  
23           A, they've reduced incidents at private  
24           crossings once they are installed. And my  
25           personal experience and my organization's

1 position is it adds very little. We just  
2 have not seen that there is this big impact  
3 and there are people within government that  
4 think it's the end-all to the problem, just  
5 install stop signs or yield signs. What we  
6 have seen by talking to our members is people  
7 still, if they stop at all, they usually stop  
8 once they are on the track so they can look  
9 both ways and see if anything is coming. I  
10 think they just -- as you said, especially in  
11 the rural areas, and these are private  
12 crossings, people either stop now or they  
13 don't. I don't think putting up a stop sign  
14 is going to make that big of a difference. I  
15 really don't think that's where you want to  
16 go to think you are going to stop a problem.  
17 Because unless Volpe is aware of some studies  
18 that I don't know about, I haven't seen any  
19 data that it's working or that it's improving  
20 even what's going on today.

21 Thank you very much.

22 MR. GRADY COTHEN: I don't know if we

23 have any studies with passively signed

24 private crossings as to the effectiveness of

25 signs. I would think that we would be

1 looking hard for the data elements with  
2 regard to signage effectiveness at private  
3 crossings, you know, which is a little bit  
4 discouraging because you'd like to start with  
5 adequate data. And actually I think we've  
6 been pretty successful as a community in  
7 having enough, not the best, but everything  
8 we would like to have, but, you know, enough  
9 to do some analysis for the various  
10 activities that we've done related to our  
11 reflectorization and train horns and that  
12 sort of thing and in evaluating in a general  
13 kind of way effectiveness and counter  
14 measures.

15 But this really gets us down to a  
16 very difficult point. The states that  
17 have -- it appears that the states that have  
18 signage requirements for private crossings in  
19 general, the small handful specify stop  
20 signs. So there is a judgment exercise by

21            somebody that, you know, the stop sign is the  
22            signage of choice. As I indicated if you  
23            look macro at passive crossings in the nation  
24            as a whole, we do believe that stop signs  
25            help, but most of those would be on public



1           roadways where you would have some degree of  
2           enforcement, however small.

3                        So that's a big issue for us. I  
4           mean, and how do we work through it other  
5           than just gathering up our opinions which are  
6           useful. And I think we have to do that, but  
7           you would like to drive these decisions based  
8           upon data. And certainly I think the highway  
9           community as a whole has pretty much come  
10          down to passively sign crossing. If we can't  
11          do any better, we'll at a minimum have a  
12          crossbuck and a yield sign, and if there are  
13          indications that a stop sign is needed, then  
14          the stop sign will go in. And because of the  
15          resource issues that Ron and Susan have been  
16          referring to, you don't go to automated  
17          warning devices until you get to a higher  
18          level of risk. Here we have the problem  
19          that, you know, do you apply MUTCD criteria  
20          or not. If you do, assuming a yield sign is

21 less effective, you may end up using a yield  
22 sign rather than a stop sign, including in  
23 places where stop signs are now at those  
24 crossings.  
25 Is that a good thing? I don't

1 know. Maybe it is. And then if you want to  
2 go for some more substantial signage, how do  
3 you do the analysis to determine whether  
4 automated warning devices are required? You  
5 don't know what the average annual daily  
6 traffic is. I think Miriam's slide said we  
7 don't even know what the train count is at  
8 the crossing. The accident-prediction  
9 formula is built around public crossings. So  
10 we find ourselves in the year of our  
11 Lord, 2006, in a rather primitive stage of  
12 program development, and that's very  
13 discouraging. And, you know, what this set  
14 of meetings is all about really is: How do  
15 we get traction on this thing? How do we get  
16 traction?

17 Any more comments about private  
18 crossings? Can we do away with them? Do we  
19 have to have more?

20 MS. ANYA CARROLL: I'd like to respond

21 to Tim since he asked if Volpe had any ideas  
22 about studies or anything that have been  
23 going on. Based on our experience supporting  
24 FRA rule-making, Grady mentioned freight car  
25 reflectorization which was based on

1       25 percent of the accidents; passively signed  
2       crossings are more affected. It took us ten  
3       years worth of data collection to support  
4       that rule.

5               Another example I would bring to  
6       the table where it was very difficult to  
7       analyze the data in this forum is the Buckeye  
8       Shield which was implemented across Ohio,  
9       half of the passive crossings had them, half  
10      of them didn't, they collected data for ten  
11      years and could still not make it through the  
12      MUCTD process to be a legislated -- or guided  
13      sign by MUCTD. There is hope, though. DOT,  
14      I think it was 2001, put together a technical  
15      working group. That was made up of numerous  
16      agencies and affiliations, industries, the  
17      railroads looking at positive guidance for  
18      how you apply technology at-grade crossings.  
19      Of course it was more publicly oriented, this  
20      is a private crossing issue, but it may be

21 applicable.

22 They looked at the types of conditions

23 at certain crossings and where a sign would

24 be applicable and where a warning device

25 would be applicable. And if we could collect

1 the data that talked to train frequency and  
2 vehicle frequency, we may be able to use that  
3 document as a baseline to start from.

4 MR. GRADY COTHEN: Good point. And one  
5 of our other colleagues mentioned the fact  
6 that we didn't brief on the technical working  
7 group report. We will endeavor to do that  
8 for the next time around. Where can it be  
9 found at this point? It was up on the web  
10 site.

11 MR. WILLIAM BROWDER: On Ron Ries' web  
12 site, we have a hyperlink right to it.

13 MS. SUSAN AYLESWORTH: On FRA's web site  
14 too.

15 MR. RONALD RIES: Both Federal Highway  
16 and Federal Railroad's web site.

17 MR. WILLIAM BROWDER: But yours is easy.

18 One more document that might be  
19 consistent with what you all are talking  
20 about is the Transportation Research Board

21 NHRP study Number 470 which is a data-driven  
22 study of identification of crossbucks by  
23 groups and reaches several conclusions, which  
24 I won't attempt to paraphrase, but you ought  
25 to include it in your efforts. And Tim is



1           probably the reason that the national  
2           committee is using traffic-control devices as  
3           recommended to the FHWA language in support  
4           of yield as a default supplemental sign at  
5           public passive crossings and where diagnostic  
6           studies show it's appropriate, a stop sign.

7                        Did I get that right, Peterson?

8           MR: PETERSON: Yes.

9           MR. WILLIAM BROWDER: Thank you.

10           MR. GRADY COTHEN: If some of the  
11           Canadian work is to be believed, and I think  
12           it is, you know, there are crossings out  
13           there where you probably don't want to put a  
14           stop sign because you are going to bring a  
15           heavy truck to a stop at a location where  
16           with available sight distance they're going  
17           to have great difficulty making headway and  
18           clearing the crossing before the train  
19           arrives; location by location kind of  
20           concern. And those circumstances, a yield

21 sign may actually be better. But one of the  
22 really big questions it seems to me in this  
23 proceeding is what should the default sign be  
24 with the crossbuck. And again, as indicated,  
25 that the technical working group was

1 comfortable with the yield signs, certainly  
2 it's an important augmentation to the  
3 crossbuck, wherever the crossbuck stands  
4 alone simply as a matter of communicating  
5 clearly to the motorist what the expected  
6 behavior is. Taking Tim's point, can we say  
7 how effective that is, well, no, we can't. I  
8 don't think we have that data at this point.  
9 I know we are going to bounce around in this  
10 discussion and that's okay because Anya and  
11 Steve are keeping track of where we've been.

12 I think that there was indication  
13 earlier that insurance arrangements really  
14 have not influenced behavior of railroads or  
15 crossing holders. And these are questions,  
16 by the way, that we get asked by the office  
17 of management and budget and by people within  
18 the Office of the Secretary. Any further  
19 comment on that? I would say that certainly  
20 from the Federal Railroad Administration

21           standpoint I'm not aware of significant

22           influences.

23           MS. SUSAN AYLESWORTH: I can just

24           comment on my past experience in Vermont

25           where I worked in a DOT rail office. We

1       tried to legalize a group of private  
2       crossings along a corridor that was going to  
3       carry commuter rail or passenger rail. What  
4       it really amounted to was negotiating  
5       agreements with these landowners who had had  
6       rights not necessarily in writing, but maybe  
7       verbal agreements to cross the railroad  
8       tracks more than 100 years ago. And then  
9       these properties became developed and became  
10      private homes and became very desirable  
11      private homes, so their value increased  
12      significantly. And in each and every case we  
13      were unable to achieve some sort of legal  
14      documents legalizing the crossing because the  
15      property owners refused to procure the  
16      insurance that the railroad requested in  
17      order to finalize the deal. We were unable  
18      to move the negotiation forward. We were  
19      deadlocked. And the railroad obviously was  
20      unwilling to actively close the crossings,

21           and so I think today it's still in limbo.

22                     In that instance, the sticking

23           point were the insurance requirements that

24           were being requested of these private

25           landowners. And it was not an insubstantial

1 amount of money even though it might be  
2 divided amongst six properties, but there  
3 were quite a few crossings in there.

4 MR. GRADY COTHEN: In this case the want  
5 of insurance keeps us from seeing whether or  
6 not, had there been insurance in place,  
7 whether or not the underwriter or agent would  
8 have taken some action to evaluate the safety  
9 of arrangements at the location.

10 MS. SUSAN AYLESWORTH: In addition, we  
11 had -- the State had upgraded all the  
12 crossings for the commuter rail line, so the  
13 cost of the installation was borne by the  
14 State and the required easements or whatever  
15 we needed, since these were private rail  
16 lines was obtained. The one piece we can't  
17 do was formally legalize the crossings for  
18 the benefit of both the railroad and the  
19 State by retro of agreement.

20 MR. GRADY COTHEN: New commuter rail and

21 light rail starts are certainly something  
22 that are prominent on all of our horizons.  
23 And there are private crossings along those  
24 railroads as Susan has indicated; an issue of  
25 increasing concern.



1           Metrolink had one of its most  
2           serious accidents early on with a heavy truck  
3           at a private crossing. Thereafter the  
4           crossing was closed, but it's notably  
5           thereafter. There was adequate alternative  
6           access in that case. This goes to the  
7           example that Susan was just raising in that  
8           how should improvement in our maintenance  
9           costs associated with the private crossings  
10          be allocated. Ron has referred to the fact  
11          that very often arrangements are entered into  
12          and the level of activity and presumptively  
13          use of the crossing is maybe light at the  
14          time the arrangements are entered into. Time  
15          passes, and the use of the property changes  
16          or property is enhanced in some way and now  
17          you have heavier or different use. Those  
18          kind of considerations were behind some  
19          primitive guideline statements that we did  
20          back in 1994 suggesting that since the

21 railroad is not able to control the use of  
22 the property, that the holder of the right to  
23 cross should be responsible for enhanced  
24 warning or other engineering improvements  
25 associated with enhanced views.

1           We've heard reference to industrial  
2           and commercial crossings here. An example  
3           was recently cited to me where an eastern  
4           railroad was adding a passive signing  
5           resulting in reevaluation of the status of a  
6           private crossing which potentially could be  
7           blocked as a result of the train's use of the  
8           crossing. So we have things happening on the  
9           rail side and on the side of the crossing  
10          holder and one may not be able to control  
11          what the other is doing. And when you get a  
12          situation like that, sometimes you can't  
13          resort to law, you have to resort to equity,  
14          but how do you turn that into some kind of  
15          regulatory policy. Perhaps Michelle can do  
16          that for us.

17                 Comments on who should bear the  
18                 burden and why? I think -- let me pause at  
19                 something first of all to narrow the field.  
20                 I think we've heard people say, you know: If

21 we've got public use, public access on a  
22 crossing, so the general public is going to  
23 benefit from safety enhancements to the  
24 crossing, suffer the detriment if they are  
25 not done, that that seems to kind of make a

1 case for public involvement.

2 Now, it doesn't increase the  
3 Section 130 allocation to these folks. It  
4 does not do that. But in the best of all  
5 possible worlds, wouldn't we want the public  
6 to be involved in participating at least in  
7 some way in evaluating conditions at the  
8 crossing and funding improvements?

9 Just to narrow the field; questions  
10 or discussion?

11 MR. RONALD ADAMS: Simple answer, no.

12 MR. GRADY COTHEN: And why not?

13 MR. RONALD ADAMS: For new crossings --  
14 new private crossings, there is a private  
15 owner that's coming to the railroad that's  
16 crossed the property, whether the private  
17 owner may have the underlying fee title, may  
18 not. But he's going to enter into some  
19 agreement with the railroad for that action  
20 whether it's because the state has a

21 prescriptive law that says you shall allow it  
22 or because the railroad may have a business  
23 opportunity by allowing a private crossing.  
24 And they will weigh those benefits versus  
25 what happens at that crossing for new ones

1           anyway. I think the railroad is in the  
2           driver's seat as to what they can require by  
3           agreement with a private property owner; more  
4           difficult I think with the ones that are in  
5           there historically. If there is a change in  
6           character, though, I think the railroad has  
7           to take a serious look at whatever agreement  
8           they can find to say what the character of  
9           that crossing was intended to be originally  
10          and go after enforcement of their agreements  
11          or whatever the document was that created  
12          that crossing.

13                   And I know it's 150 years ago, it's  
14          hard to find those things and hard to find  
15          the section foreman that said: Oh, it's all  
16          right if you do this. But I think they have  
17          got to make that effort; time consuming as it  
18          may be, because you can't go to the title  
19          company to find out. If you do, you've got  
20          to tell them to go back to the creation of

21 the railroads to find out what the original  
22 deeds said. And then you've got to know what  
23 the state law was about how they acquired  
24 that property, who actually has the right to  
25 cross the track, whose property really is it.



1           It's not as simple as looking at the deeds  
2           because they might say warranty deed on it  
3           because they may not be.

4           MR. GRADY COTHEN: You suggested a --  
5           kind of tactical reason -- I mean, that the  
6           railroad is in a position to exact --

7           MR. RONALD ADAMS: Something.

8           MR. GRADY COTHEN: -- reasonable  
9           contributions to doing it right. From a  
10          public policy standpoint, is there a  
11          complimentary argument out of a local zoning  
12          law -- the, you know, there are differences  
13          in counties in Maryland.

14          MR. RONALD ADAMS: Yeah.

15          MR. GRADY COTHEN: I'm a Maryland  
16          resident. Between the extent of which a  
17          developer will be asked to contribute to the  
18          roads and sewers and so forth that serve the  
19          common good there with many suggesting that  
20          those public improvements should be financed

21 by those who will ultimately benefit and  
22 profit from sale of the properties. Is that  
23 in addition to the tactile reason that you  
24 suggested, is there a public policy reason of  
25 that sort that we should look to?

1           MR. RONALD ADAMS: In Wisconsin there is  
2           pressure on the local units of government not  
3           to be able to charge those development fees  
4           to a developer. But in a lot of cases, the  
5           municipalities, before they will accept  
6           jurisdiction of a road, they want them to  
7           their standards, and sometimes it's cheaper  
8           for the developer not to bring them up to  
9           town road or city road standards and keep  
10          them as a private road so that the  
11          community -- the larger community doesn't pay  
12          for the snow removal or the blacktopping in  
13          20 years or ten years when it falls apart  
14          because there are more trucks on -- even on  
15          local development road gets deliveries from  
16          heavier vehicles and automobiles. And if  
17          it's a condo association or something like  
18          that, they forget to build it into their  
19          annual fees, they get hit with a big bill at  
20          the end of -- when they have to do something

21           on the roads. The locals don't want them if  
22           they are not going to last and the developer  
23           may not want to pay for them to last. And so  
24           again, mandating a crossing become public is  
25           only the first part of the process, I think.

1           It's only a small part of the process as far  
2           as determining who is doing the rest of it  
3           and who is maintaining it. Wisconsin has a  
4           program to pay the railroads for crossing  
5           signal maintenance based on the number of  
6           units, and at this point we don't -- I don't  
7           know if you have any private crossings with  
8           active warning devices, but I don't believe  
9           that those warning device units count towards  
10          that payment. We are supposed to pay  
11          50 percent of the cost of maintenance, but  
12          the appropriation hasn't increased in a  
13          number of years, so it's down to about  
14          25 percent of warning device payments that  
15          the state pays for.

16               MR. ROBERT OPAL: I just want to comment  
17               on the suggestion that the railroads are in  
18               the driver's seat on the question of the  
19               creation of public -- of private crossings or  
20               change of use in public crossings. It's only

21 true that railroads are in the driver's seat  
22 if the railroad has the right either under  
23 it's -- whatever documents may exist or under  
24 state law to say no.  
25 And at least in my experience, that

1 very often is not the case and I remember a  
2 case in my Northwestern days in Illinois  
3 commuter territory where a private crossing  
4 which had been a farm crossing had changed  
5 into a -- into a development for -- I think  
6 it was condos, and we tried to get that  
7 crossing closed, and we just could not do it.  
8 And I mean, I think the gentleman from  
9 Wisconsin mentioned a little bit ago about  
10 they have a law in Wisconsin about farm  
11 crossings, but it's been traditionally  
12 expanded to be other kinds of crossings -- if  
13 you don't have the right to say no, you are  
14 not going to be able to -- you are not in the  
15 driver's seat. If the other party can compel  
16 the creation of a crossing, compel its  
17 continuation under state law or simply change  
18 the use without the permission or any other  
19 intervention of the railroad, can't say no,  
20 he's in the driver seat. So I just think

21           that -- I mean, with respect to the question  
22           of looking for documents, sure we are going  
23           to look for documents to the extent any  
24           exists. I mean, in the case of -- it's not  
25           sometimes as easy as you think. For example,



1 in the case of the old Northwestern railroad  
2 which was built in the Chicago area in the  
3 1850s and 1860s, records were all lost in the  
4 Chicago fire. It's not as simple as you may  
5 think.

6 MR. GRADY COTHEN: We've worked our  
7 court reporter so hard, I think it's probably  
8 time for lunch. We really should break now  
9 if we want to get into the cafeteria. Let's  
10 be back at 1:00, please.

11 (Whereupon, the deposition recessed for  
12 lunch.)

13

14 AFTERNOON SESSION

15

16 MR. GRADY COTHEN: We are feeling very  
17 lonely up here at the head table, Patty and I  
18 and the others. And so if anyone else would  
19 like to join us here, we would be delighted  
20 to have you. And we'll resume. Hope you all

21 had a good lunch. Anya Carroll is going to  
22 take us back to one of the issues that Susan  
23 raised as we started this activity this  
24 morning.

25 MS. ANYA CARROLL: Grady wants to take a

1       nap, so he asked me to stand up and lead the  
2       discussion on how do we define private  
3       crossings. A number of the speakers who made  
4       opening statements talked about commercial  
5       crossings, talked about industrial crossings.  
6       We heard from CN that they have restricted  
7       and unrestricted crossings. Does anybody  
8       have an opinion of how we start the process  
9       to define or redefine? Maybe that's the  
10      word; redefine private crossings.

11           MR. RONALD ADAMS: I'd say in Wisconsin  
12      our laws define a public crossing as one that  
13      has public roads on each side of it. If it's  
14      a private road on one side and a public road  
15      on the other side, it's a private crossing,  
16      and we have no jurisdiction.

17           MR. RONALD RIES: And that falls in line  
18      with the Federal Highway definition of a  
19      public roadway for use of the funds, have to  
20      be public on both sides of the crossing.

21 MR. GRADY COTHEN: Is that what you

22 said; both sides?

23 MR. RONALD ADAMS: Yeah, to be a public

24 crossing it has to have a public road on each

25 side.

1 MS. ANYA CARROLL: Do the states follow  
2 FHWA guidance then in that you have to have  
3 public roadways on both sides of the  
4 crossing?

5 MR. RONALD ADAMS: We would not spend  
6 federal money without complying with FHWA  
7 rules, for the record.

8 MR. GRADY COTHEN: For the record.

9 MS. ANYA CARROLL: So it may be that FRA  
10 has to partner with FHWA if we want to even  
11 think about redefining what a public crossing  
12 is.

13 MR. RONALD ADAMS: The only money that I  
14 know about that can be spent on private  
15 crossings is through FRA from the High-Speed  
16 Grade Crossing 1103 program, and that's the  
17 only place we get federal dollars to spend on  
18 private crossings.

19 MR. RONALD RIES: That was done through  
20 statute.

21           MR. RONALD ADAMS: It was done through  
22           statute, correct.

23           MR. ROBERT OPAL: The issue I heard this  
24           morning was not really what is a public  
25           versus a private crossing, because I think

1           that's pretty well established. The real  
2           issue is: What are the different types of  
3           private crossings, because they differ  
4           significantly. And that's what I heard this  
5           morning. Maybe somebody else heard something  
6           else.

7           MR. GRADY COTHEN: And that's where she  
8           is going next. But we wanted to start out  
9           with --

10          MS. ANYA CARROLL: But I wanted to  
11          establish what the process is. I mean, it  
12          looks like we have to go to Federal Highway,  
13          it has to be a partnership among federal  
14          organizations to actually redefine what this  
15          is.

16          MR. WILLIAM BROWDER: Unless you  
17          redefine what a public crossing is.

18          MS. ANYA CARROLL: Okay. So that's  
19          another option.

20          MR. GRADY COTHEN: Is there any problem

21 with the Federal Highway Administration

22 definition? Does it get us in trouble

23 anywhere?

24 MS. SUSAN AYLESWORTH: Grady, I'll give

25 an example. If the Department of Natural



1 Resources has an access road to some sort of  
2 recreational spot and it's not a local road  
3 authority, we don't assume that that is a  
4 public crossing even though the public will  
5 drive down that access road to get there.  
6 That's a crossing owned by a state agency.  
7 We don't think it complies with the  
8 definition of a local road authority. I  
9 could be wrong on that, but we would assume  
10 that that would be a private crossing. So  
11 that's some of the conundrum that we have  
12 that we would not spend federal monies on a  
13 crossing in that context where both sides of  
14 the road are owned by another state agency.

15 MR. WILLIAM BROWDER: And another common  
16 example that exists is where you have a  
17 public dump and the private road to the  
18 public dump is maintained by the landfill,  
19 county or local or even state agency, those  
20 crossings. And we've had several Amtrak

21 incidents in Florida at private crossings

22 like that.

23 MS. PEGGY BAER: Ron, you may remember

24 this one in Davenport where the Levy

25 Association owns some property on the other

1 side of the track and there is a crossing,  
2 but the Levy Association is not considered a  
3 highway authority, so it's a private  
4 crossing.

5 MS. ANYA CARROLL: Getting back to  
6 Grady's generic question, is there a problem  
7 with the definition of public crossings? Do  
8 we need to look at the definition of public  
9 crossings in order to address the other  
10 issues that we've been talking about this  
11 morning, commercial crossings, industrial  
12 crossings, natural resource crossings, farm  
13 crossings? I don't know how many -- maybe we  
14 want to talk about type before we go there.

15 I don't know. Should we redefine public?

16 MR. WILLIAM BROWDER: I think that's a  
17 question you should put out there to  
18 investigators.

19 MS. ANYA CARROLL: In terms of public  
20 crossings, apparently a public crossing is

21 one that has public roads on either side of

22 it, correct?

23 MR. RONALD ADAMS: Not necessarily. It

24 could be a bike path, it could be a

25 pedestrian crossing that's public. It may

1 not be a motor vehicle crossing.

2 MS. PATRICIA ABBATE: But if the access  
3 is a public road --

4 MR. RONALD ADAMS: Or a publicly owned  
5 path.

6 MS. PATRICIA ABBATE: Publicly owned.  
7 But yet there are many crossings -- private  
8 crossings where the public passes, and lots  
9 of public. So maybe you do have to redefine  
10 what that means if the public is at risk at  
11 these areas; even if it's privately owned or  
12 corporately owned or commercially owned.  
13 Because these people have to be protected  
14 some way and you have to start somewhere, and  
15 safety is the number one issue. But who is  
16 responsible for that and there are shades of  
17 gray there. Maybe this is a good question to  
18 investigate.

19 MS. ANYA CARROLL: Any comments?

20 MR. GRADY COTHEN: For the purpose of

21       this proceeding, is there any objection to  
22       considering a private crossing to be all  
23       crossings other than those nominated as  
24       public by the Federal Highway Administration,  
25       that is the scope of things we are going to

1 look at?

2 MR. RONALD ADAMS: Current Federal  
3 Highway definition?

4 MR. GRADY COTHEN: (Nods.)

5 MR. RONALD ADAMS: Okay. I would go  
6 with that.

7 MR. GRADY COTHEN: So we would be  
8 looking at these other circumstances that  
9 you've identified as areas of need in the  
10 sense that there is not a federal funding  
11 authority, there's no clear delineation of  
12 responsibility, questions regarding  
13 applicability of MUTCD and so forth.

14 MR. RONALD ADAMS: I also don't think it  
15 would be as simple as changing the FHWA  
16 definition of what a public crossing is to  
17 make the ones that are termed private,  
18 public. I think it's -- you are going to get  
19 bogged down in state and local jurisdictions  
20 and precedents and all that kind of stuff.

21 MR. GRADY COTHEN: Sure.

22 MS. ANYA CARROLL: Well, let's pick up

23 where Grady left off. What are categories

24 of -- other than public crossings? I mean,

25 we heard a lot of discussion earlier this



1 morning.

2 MR. ROBERT OPAL: Farm crossings,  
3 industrial, other commercial, residential,  
4 parens, similar to driveways, close parens,  
5 residential, parens, similar to private  
6 driveways, residential multiunit in-plant, I  
7 guess that's a form of industrial in-plant.  
8 There's two types of industrial, industrial  
9 in-plant, industrial --

10 MR. RONALD RIES: Provides access.

11 MR. ROBERT OPAL: Yeah, industrial  
12 access versus industrial in-plant. That's my  
13 two cents worth.

14 MS. ANYA CARROLL: Anything else that  
15 you want to add to the list?

16 MS. SUSAN AYLESWORTH: I would add  
17 recreational to the extent that our  
18 interpretation is correct.

19 MR. ROBERT OPAL: Right. Do we want to  
20 talk about non-vehicular since that was

21 mentioned; pedestrian, bike trails, might be

22 recreational with a subset.

23 MR. DAVID PETERSON: Institutional, say

24 like universities. And an additional one

25 would be government or public facilities.

1 MS. MIRIAM KLOEPPEL: That would cover  
2 the municipal dump sort of situation?

3 MR. DAVID PETERSON: It would cover  
4 military bases too.

5 MR. ROBERT OPAL: Another one is  
6 internal railroad facility crossings.

7 MR. TIM DEPAEPE: I don't know that you  
8 want to creep into that area. I mean, if you  
9 are going to regulate it all or -- I mean,  
10 like Proviso Hump Yard, there's tracks all  
11 over once you get in the facility off the  
12 public road. You'd almost have to carve out  
13 a niche for the railroads because there is no  
14 way you would want to put, you know, grade  
15 crossing equipment at all of those within the  
16 facility itself.

17 MR. GRADY COTHEN: Yeah, I think we are  
18 trying to account for categories here so that  
19 we don't do things that are inappropriate,  
20 you know, make appropriate distinctions.

21 MR. TIM DEPAEPE: Right.

22 MS. ANYA CARROLL: Anybody else? Any

23 other types of crossings that you've seen on

24 your railroad, in your state, in your local

25 area?

1           Some of the regional FRA folks?

2           Anything else?

3           MR. BENNIE HOWE: In our situation, we  
4           have a couple cases where there is also two  
5           categories of the military base. For --  
6           Leavenworth, for example, has an access road  
7           plus inner -- like you have inner plant  
8           industrial. And we do some regulations in  
9           there; although we were told once we entered  
10          that gate we are not in Kansas anymore.

11          (Laughter.)

12          MR. DAVE PETERSON: There is one more  
13          important category that I believe is missing;  
14          would be farm crossings, field farm  
15          crossings.

16          MS. ANYA CARROLL: That was the first  
17          one signed, Dave, the column. We couldn't  
18          get the engineers in fast enough to remove  
19          the column before we had the meeting. Are  
20          there different kinds of farm crossings? We

21           started to talk about government facilities,  
22           military facilities, access versus  
23           inter-plant in railroad yards. Are there  
24           distinctions amongst the farm categories that  
25           you want to bring out? I know temporally

1           some farm crossings are used in the summer  
2           and not in the winter -- or I'm sure it  
3           varies per region. Are there access versus  
4           inter-field, inter-plant on farm crossings  
5           you are concerned about?

6           MS. PEGGY BAER: In Iowa we have  
7           farm-to-farm or road-to-farm crossings, but  
8           under our state law there is also  
9           agricultural-use private crossings. And the  
10          one I'm thinking of is -- I got a call on the  
11          Burlington Northern line where it's a hog  
12          farm and they haul the hog waste across the  
13          track to the sewage dump.

14          MR. WILLIAM BROWDER: One more that I  
15          don't see really defined are temporary  
16          private crossings. And this probably was a  
17          big thing I can think that CSX had a big  
18          issue with this -- and may still have it with  
19          respect to logging and people cutting timber  
20          and even having agreements for temporary

21 private crossings on the railroad.

22 MS. SUSAN AYLESWORTH: Add to that

23 temporary private. We get a lot of requests

24 for contractors crossings. They may be

25 longer term, one to two years, but



1 construction crossings or contractor  
2 crossings for a duration of a particular  
3 project.

4 MS. ANYA CARROLL: I think we are on a  
5 roll now, everybody seems to be engaged.  
6 What do you think if we take these numerous  
7 ones and try and generalize, commercial  
8 industrial -- it may help in the long run to  
9 have discussions about these things in that  
10 general framework because there may be  
11 certain characteristics of commercial  
12 crossings versus industrial versus farm.

13 MR. GRADY COTHEN: I don't know whether  
14 this takes you beyond where you want to go at  
15 this point --

16 MS. ANYA CARROLL: Okay.

17 MR. GRADY COTHEN: -- Anya, but the  
18 category of crossing may not correspond  
19 precisely to who the users are, the  
20 population of users. And I think, you know,

21 obviously residential -- for instance,  
22 residential seems to be obviously simple, but  
23 perhaps it's not because in addition to the  
24 person who maintains the residence, and let's  
25 take the simple case of an extended driveway,

1           that person also will have business guests on  
2           the property from time to time. You know,  
3           unless they are handier than I am, the  
4           plumber is going to come out, the electrician  
5           is going to come out, maybe a yard service  
6           will come out if they're really prosperous  
7           and so forth, so you have various members of  
8           the public entering as business guests on the  
9           property. And the extent of that may  
10          influence how you want to treat it.

11           MR. WILLIAM BROWDER: May not just be  
12          invited guests, it may be U.S. Postal Service  
13          or FedEx and DHL and those people providing  
14          services; not even solicitors.

15           MR. GRADY COTHEN: Right. Correct.

16           MR. ROBERT OPAL: Well, the functional  
17          differences between some of these have to do  
18          with the number and types of people that may  
19          be using these types of vehicles that use the  
20          crossings, the periods of the year in which

21           they are being used and things of that  
22           nature. The residential private driveways  
23           probably are going to be primarily the owner  
24           plus his contractors and guests. The  
25           multiunits probably going to have a lot more

1           general public just because of the nature of  
2           the structure. The industrial crossing is  
3           going to have general public plus big  
4           machines. The farm crossing has big machines  
5           not used as much, but they may be so large  
6           that you can't, for example, use  
7           conditional -- any kind of things we consider  
8           to be crossing signage because the combine  
9           will take it out; I mean, just a few  
10          observations I have.

11           MR. GRADY COTHEN: We are working at  
12          three levels at least here, the category of  
13          crossing, the type of user and the nature of  
14          the traffic, motor vehicles, industrial  
15          equipment, boats. Some of our favorite  
16          crossings in the FRA have been accesses to  
17          marinas, particularly in the northeast  
18          corridor where after 20 years of work we  
19          still got, I think, 12 left in the north end.

20           MS. ANYA CARROLL: Any other attribute

21 that anybody can think of that would help us

22 look at the functional category of crossings?

23 MR. BENNIE HOWE: I think that volume

24 has to be involved in there somewhere because

25 there is a big split on residential between

1 private -- going to one home and going into a  
2 trailer park or something. I think we have  
3 both of those in our region. And I think  
4 there has to be a distinction made there.

5 MS. ANYA CARROLL: For railroad, highway  
6 and other volume, traffic volume.

7 MR. BENNIE HOWE: I was thinking of  
8 traffic, but I suppose they both could make a  
9 big difference. I mean, we have some  
10 places -- different subject, but a private  
11 crossing goes into a Wal-Mart. And the  
12 Marina is, Peggy, all along this bank of the  
13 Mississippi River just, you know, up over the  
14 levy, just little sand crossings going over  
15 to the river, fishing or cabins or something  
16 like that; from here all the way to forever  
17 south.

18 MS. ANYA CARROLL: So how would we --  
19 how would we put that in a functional sense  
20 as far as the roadway is concerned? What we

21 are talking about is it's -- right now it's a  
22 private crossing going into a Wal-Mart or  
23 it's a private crossing going into somebody's  
24 private cabin on a lake. How do we  
25 categorize what we are looking for? Is it



1 use?

2 MR. RONALD RIES: Seems like that sort  
3 of goes to the question about public purpose  
4 and public use, seeing if there is a general  
5 open invitation for the public to come in  
6 like a Wal-Mart or an open boat ramp where  
7 the general -- anyone would be open to use  
8 it, this one type. Another would, you know,  
9 is this my home? If it's not -- I don't  
10 expect everybody to come in and drive over my  
11 crossing. So that might be one way of  
12 looking at it.

13 MR. JIM KRIEGER: I just wanted to  
14 mention that comment, it might be restricted  
15 or unrestricted how to describe it.

16 MS. SUSAN AYLESWORTH: Have we captured  
17 use that is not necessarily permitted, people  
18 who are trespassing or people who are just  
19 accustomed, the crossing is there, the owner  
20 may be absentee and people have just decided

21           they can cross there as sort of a -- it is a  
22           trespasser because they are not invited, it's  
23           not a public crossing, but it's  
24           common-to-common usage because of its  
25           location and access to something that people

1 are interested in. So it could be a farm  
2 crossing that leads to a wooded area that the  
3 kids like to go hang in because nobody sees  
4 that they are there or something like that.

5 MS. ANYA CARROLL: How would we define  
6 that?

7 MR. BENNIE HOWE: How about lovers'  
8 lane?

9 MS. ANYA CARROLL: I don't think lovers'  
10 lane is going to be one of the categories.

11 MR. GRADY COTHEN: We called them woods.  
12 This is -- the lawyers, right, Bob, would say  
13 this is really access to an attractive  
14 nuisance is what this is.

15 MS. MIRIAM KLOEPPEL: Might interject at  
16 this point, these are very interesting  
17 elements that might help us categorize the  
18 private crossings, almost none of them are  
19 data that we have, and I'm curious to know  
20 whether people would find it useful to

21           conduct a massive inventory effort similar to  
22           what we did in the 1970s to collect this kind  
23           of information.

24           MS. SUSAN AYLESWORTH: We are in the  
25           process of doing an inventory of our public

1 at-grade crossings. We ambitiously thought  
2 we could inventory 1,500 crossings a year for  
3 a three-year cycle where every crossing would  
4 be inventoried every three years. Well, that  
5 was a little ambitious, we had one person  
6 doing it, so we probably inventoried  
7 two-thirds in the last three years. So  
8 really more like 1,000 a year. We have about  
9 2,000 or so, 2,500 private crossings in the  
10 state. The difficulty with inventorying  
11 private crossings is they are not easily  
12 locatable. Some of them are on roads that no  
13 longer look like roads, some of them are in  
14 between cornfields. So we have limited  
15 information on the location working off of  
16 either the FRA database or our own database.  
17 So I'm not sure we could even capture all of  
18 them if we went out on an inventory effort.  
19 But then you come to the question of  
20 resources. I mean, certainly that is an

21 issue that is always present, we would have  
22 to take that person who we have, take them  
23 away from doing the public crossing inventory  
24 and assign them that private crossing  
25 inventory activity which I would presume

1 would take a lot longer to do.

2 MR. RONALD ADAMS: Some of that  
3 information that's been mentioned about site  
4 distances, we don't even have that on public  
5 crossings in the database. So not only would  
6 you have to find it and identify the private  
7 crossings and gather all of the data that's  
8 in the inventory, but you would have to go  
9 out and reinventory for specific items on the  
10 public crossings that we already know about.

11 And we haven't really talked about pedestrian  
12 crossings, but in the inventory we frequently  
13 don't know if those are public or private at  
14 this point. And it gets confusing, it's  
15 difficult to ferret it out.

16 MR. LYN HARTLEY: BNSF Railroad, I don't  
17 want to discourage my friends at the FRA, but  
18 then the next question is: What database are  
19 you going to house this data in, are you  
20 going to create a modern easily maintainable

21            database to keep the data in? We certainly  
22            don't want to perpetuate what we have today.  
23            If any of the states as Susan has indicated  
24            have already done reinventory, they may or  
25            may not be sharing that because of



1 incompatibility of state databases and FRA  
2 databases.

3 MS. MIRIAM KLOEPPEL: I guess I'm hoping  
4 for people to come up with suggestions.  
5 Obviously the old way of doing things would  
6 be very cumbersome. If anyone has  
7 suggestions for ways to gather information  
8 using modern technology, I'd be very open to  
9 hearing them.

10 MR. TIM DEPAEPE: Track inspectors  
11 inspect the track on a weekly basis, there  
12 would be nothing -- they have high-rail  
13 vehicles that they have to use to inspect the  
14 track. And I'm not going to speak for the  
15 railroads here, but it would not be much of a  
16 burden to just tell the guy: Mark down the  
17 milepost. If they have some way to do it  
18 with GPS tracking, I know that some railroads  
19 are doing that now, but just when you go  
20 through your territory, just put down the

21           milepost of every private crossing, and then  
22           you'd capture them all. And then turn it in  
23           somehow, you know, to the FRA or whoever  
24           wants to maintain the database.  
25                    I mean, that's one way you could

1       get the information without -- it's not like  
2       you are having them make a special trip, as  
3       part of his inspection he can just note that.  
4       It would be in small enough bundles, you  
5       know, that they could get it done.

6           MR. ROBERT OPAL: It might get you  
7       locations, but it doesn't get you types  
8       because some of these types aren't evident  
9       just from the -- I mean, some of them are,  
10       some of them aren't. You just don't know  
11       from just the tracks.

12           MR. WILLIAM BROWDER: I'm not in a  
13       position to make a statement for the railroad  
14       industry or for the AAR, but to answer Lyn's  
15       question and Miriam's comments, I would  
16       suggest that the railroads and others make  
17       concrete recommendations to the FRA at the  
18       series of public hearings that they conducted  
19       in connection with the revision of the grade  
20       crossing inventory form. And to date I

21       haven't seen any results of those hearings,  
22       but I know they were on your web site and  
23       that the railroads made a number of specific  
24       recommendations to improve the inventory.  
25       And you might want to look at those

1           recommendations in consideration of this  
2           issue.

3           MS. MIRIAM KLOEPPEL: Be happy to.

4           MR. RONALD RIES: The inventory manual  
5           is in the process of being revised and  
6           updated and are working forward to getting  
7           the public -- making public the changes that  
8           came out of the inventory. And also, Lyn, we  
9           have a pilot project going -- undergoing now  
10          transferring inventory information using the  
11          web through an XML format, which doesn't mean  
12          anything to me, but from what I understand it  
13          will take almost any format and we'll be able  
14          to do it real-time on the web. So we are  
15          working on ways to facilitate exchanging  
16          information with states and railroads with  
17          the inventory.

18          MR. WILLIAM BROWDER: I think that much  
19          more addresses Lyn's question, that is the  
20          process rather than the physical properties

21 of the inventory.

22 MS. SUSAN AYLESWORTH: I would add

23 another comment, that, to the best of my

24 knowledge, the railroads are in the best

25 position to know what a private crossing is

1           and what isn't. I mean, I would guess at  
2           this point they would have some record, which  
3           is why we don't go out and make that  
4           determination. I'm assuming that they have  
5           that information and are able to get it.  
6           There are certain circumstances where that's  
7           not possible, but I believe they have the  
8           best information available, certainly better  
9           than ours.

10           MR. LYN HARTLEY: I'm going to point out  
11           the obvious. The state DOTs by definition  
12           this morning know what public crossing is.  
13           So if you know what a public crossing is,  
14           therefore by default, the balance are  
15           private. I would say the states are in equal  
16           position to determine a public crossing as a  
17           railroad is to determine a private crossing.

18           MS. SUSAN AYLESWORTH: That is true if  
19           the private crossing has access to a public  
20           road. But commonly if it's between two farm

21 fields and there's a farm road leading to it,  
22 we wouldn't necessarily send our guy down the  
23 farm road to look for a private crossing. So  
24 in those instances, it's not as easy for us  
25 to discern whether there is even a crossing



1 in that location. And that's why I'm saying  
2 you might have better information about that  
3 than we do.

4 MR. LYN HARTLEY: Okay.

5 MR. WILLIAM BROWDER: I've got a  
6 question for Minnesota. Are you one of the  
7 30 states that participates in the FRA  
8 inspection program?

9 MS. SUSAN AYLESWORTH: Tim, do you want  
10 to answer that?

11 MR. TIM DEPAEPE: We do not.

12 MS. SUSAN AYLESWORTH: Too expensive.

13 MR. WILLIAM BROWDER: Okay. Then I  
14 would challenge your contention of not being  
15 able to get down if you had an inspector with  
16 the state that had an inspection.

17 MS. PEGGY BAER: Well, we do have track  
18 inspectors, state track inspectors, two of  
19 them. And from my perspective, that would  
20 not be the highest priority I would want my

21 track inspectors working on, is identifying  
22 farm crossings. They have a bigger job than  
23 that. So I don't know that it's something  
24 that would be priority.  
25 MR. DAVID PETERSON: I'd like to just

1 comment on Susan's statement that the  
2 railroads have a better understanding of  
3 private crossings. The one area where  
4 railroads have a classic gap on private  
5 crossings is when a private landowner goes  
6 through the land use commission of whatever  
7 regulatory body or community they are in and  
8 has a private road converted to public,  
9 frequently the railroads are not notified  
10 that that occurs. And most states there is  
11 not a mechanism in place to formally notify  
12 the railroad or in many cases the DOTs that  
13 the designation has changed until such time  
14 as an incident occurs at the crossing, and  
15 then that becomes made available to us when  
16 we do the reporting.

17 MS. SUSAN AYLESWORTH: I would agree  
18 with Dave Peterson, that we don't get  
19 informed for local planning activities when  
20 crossings are converted from private to

21 public for development purposes. Every once  
22 in a while we'll get a phone call, but very  
23 seldom, so our database would be in error in  
24 that instance also.

25 MR. RONALD ADAMS: Wisconsin, if they

1 haven't made any public road on the other  
2 side, it's still a private crossing no matter  
3 what they've done to develop the other side,  
4 it's away from the road. Even if they have  
5 gone to the locals and gotten some massive  
6 rezoning on the other side of the railroad,  
7 it's still a private crossing by definition,  
8 unless the road authorities have taken  
9 jurisdiction of that.

10 MR. ROBERT OPAL: I don't think that's  
11 what he's saying. I think he's saying the  
12 road on both sides has changed from private  
13 to public. We don't --

14 MR. DAVID PETERSON: That is exactly  
15 what I'm saying, Ron. The notification when  
16 a public road authority takes over ownership  
17 of the road in many jurisdictions does not  
18 include notification of the railroads or the  
19 state's regulatory body that keeps track of  
20 the crossing inventory. So we don't even

21           know to change the warning devices to make  
22           them conform with what should be at a public  
23           road. It may be that way, but we may not be  
24           formally notified.  
25           MR. RONALD ADAMS: It may or may not be

1 a public crossing, because in Wisconsin the  
2 office of the commissioner hasn't ruled that  
3 it is. That's a question I don't know the  
4 answer to.

5 MS. ANYA CARROLL: What other -- maybe I  
6 can ask another question: What other  
7 organizations do you work with on a daily  
8 basis that might have this information? Does  
9 somebody like AASHTO? Does -- I mean, there  
10 is the regional federal highway folks. Who  
11 else can we lean on to be a partner in trying  
12 to at least identify the problem and the  
13 issues that we need to address? What other  
14 partners can we reach out to?

15 MR. WILLIAM BROWDER: Who are you  
16 reaching out to?

17 MS. ANYA CARROLL: You mean the data  
18 collection or the entire issue of private  
19 crossings?

20 MR. WILLIAM BROWDER: Either one. Take

21           your choice. I don't understand the

22           question.

23           MS. ANYA CARROLL: What other private or

24           public entities can FRA reach out to to try

25           and collect data or try to bring into these



1 public meetings for their input that might be  
2 useful to move forward?

3 MR. WILLIAM BROWDER: You have FHWA.

4 MS. ANYA CARROLL: I don't think we do.

5 MR. WILLIAM BROWDER: I mean, you have  
6 it on your list.

7 MS. ANYA CARROLL: Yes.

8 MS. MIRIAM KLOEPPPEL: Yes.

9 MR. WILLIAM BROWDER: The National  
10 Committee on Uniform Traffic Control Devices,  
11 railroad committee in particular, they are  
12 working on a number of areas to deal with  
13 private crossings and two of their  
14 representatives are on FRA's staff. AASHTO,  
15 AREMA, AFTA, TRB. I'm sure there are some  
16 others that have some better suggestions than  
17 me.

18 MR. ROBERT OPAL: Bill, any of those  
19 organizations likely to have data on public  
20 and private crossings?

21 MR. WILLIAM BROWDER: TRB is, I know  
22 that. It might be that BTS and a program  
23 that's out there that may have data, I'd have  
24 to look at it, it might be the FARS system  
25 under the -- it's NHTSA may have data on

1 public versus private crossings. I'm not  
2 sure anymore. They collect data, whether it  
3 includes delineation of public versus  
4 private, I'm not sure. And I'll tell you  
5 another that nobody -- you talked all around  
6 it, but you haven't confronted them, is NTSB.

7 MS: PEGGY BAER: Bill, what does FARS  
8 stand for?

9 MR. WILLIAM BROWDER: Fatal analysis  
10 reporting system. Every time a policeman  
11 makes out a report on a highway fatality,  
12 that's completed. It's about a 10- or  
13 12-page report on that fatality and submitted  
14 to NHTSA.

15 MS. PEGGY BAER: Which stands for the...

16 MR. WILLIAM BROWDER: The National  
17 Highway Traffic Safety Administration.  
18 They're part of these guys. I don't know  
19 that they'll ever admit it.

20 MR. GRADY COTHEN: This is information

21 the FRA periodically compares the fatalities  
22 as reported through the FARS system with the  
23 fatalities reported under the RAIRS system,  
24 Railroad Accident Incident Reporting System.  
25 And the general finding is that our database

1 is more complete and more accurate as to  
2 location. And in most cases there is a  
3 discernable and assigned crossing number  
4 which has an identity in the database as  
5 public or private; whether that's correct or  
6 not may be something else, but it has an  
7 identity in the database. So we do pay  
8 attention to that resource, but we find that  
9 the filters that that has to go through and  
10 the lack of knowledge probably on the part of  
11 the collecting official regarding the  
12 railroad side issues makes it less reliable  
13 than the data that we collect through the  
14 railroads.

15 MS. ANYA CARROLL: How about users of  
16 some of these crossings, do they have a stake  
17 in safety of these crossings? We talked  
18 about commercial, industrial, do some of  
19 these plants or, you know, industries that  
20 need access to their plants, do they have a

21 -- do they know how many trucks they -- you  
22 know, frequent that crossing on a daily  
23 basis? What types of trucks? Oil trucks?  
24 I'm just trying to figure out what other  
25 organizations might have an interest in

1 attending these public meetings. This is the  
2 first one that we are holding on a series of  
3 currently four we have scheduled, and we  
4 would like to be all inclusive in bringing  
5 everybody to the table to talk to the issues  
6 so that we collect a world of information.

7 MR. ROBERT OPAL: Well, individual  
8 industries would certainly know what their  
9 truck traffic is in and out. But I think the  
10 real issue is whether there is some kind of a  
11 compilation that would show use of a  
12 particular category at a grade crossing. I'm  
13 not aware of anything like that.

14 MR. RONALD RIES: I'm not either.

15 MS. ANYA CARROLL: How about federal  
16 motor carriers, they are a new partner in  
17 DOT, right, relatively new?

18 MR. ROBERT OPAL: Well, a lot of  
19 trucking occurs with private trucks, though,  
20 so that only gives you part of the picture.

21           MR. WILLIAM BROWDER: The only segment  
22           of the industry, and I was going to mention  
23           this as one that does identify and develop  
24           data on it, is the school bus industry. And  
25           they do develop information on highway-rail



1 grade crossings that impact school buses.

2 The NTSB has got data on highway-rail grade  
3 crossings within the highway segment rather  
4 than the railroad segment of their  
5 organization setup.

6 MS. MIRIAM KLOEPPPEL: Not entirely.

7 MR. WILLIAM BROWDER: Well, they have a  
8 recommendation -- data and recommendation  
9 section. I know you worked in that. But  
10 it's very confusing to an outsider like me to  
11 reconcile data from the NTSB with the FRA,  
12 and a lot of people choose to ignore the NTSB  
13 data. But there may be categories collected  
14 that Anya may be interested in that we don't  
15 know about.

16 MS. ANYA CARROLL: We'll put them on the  
17 list.

18 MS. MIRIAM KLOEPPPEL: We can talk with  
19 them. But typically what they have is  
20 isolated -- I mean, they would do case

21 studies. FRA will have a much fuller list of  
22 the accidents that occur. The NTSB will  
23 investigate a couple of accidents every  
24 couple of years. We will be happy to talk  
25 with them, though.

1           MR. GRADY COTHEN: They do publish data  
2           annually, but generally it's data obtained  
3           from the DOT. And then it's reorganized  
4           sometimes so that you get light rail and rail  
5           combined, for instance. FRA also publishes  
6           on the web currently rail transit as well as  
7           FRA data for convenience at the request of  
8           OIG.

9           MS. ANYA CARROLL: Would FTA be a  
10          partner here as well?

11          MS. MIRIAM KLOEPPPEL: I think so.

12          MS. ANYA CARROLL: And we've heard lots  
13          of things from our railroad friends. What  
14          are some railroad organizations that might  
15          have information? We've got the AAR was  
16          represented today.

17          MR. ROBERT OPAL: Some of the ones that  
18          Bill gave you are railroad organizations.

19          MS. ANYA CARROLL: How about short  
20          lines?

21 MR. TIM DEPAEPE: ASLRRRA, American Short  
22 Line and Regional Railroad Association.

23 MS. ANYA CARROLL: Aren't they supposed  
24 to provide the technology?

25 MR. TIM DEPAEPE: Well, they provide the

1           technology, but they wouldn't know where any  
2           of this -- where the crossings or things like  
3           that are.

4           MR. ROBERT OPAL: Probably the military  
5           has all this information somewhere in some  
6           database that probably we can access.

7           MS. ANYA CARROLL: Well, Grady mentioned  
8           the old rail garrison. You never know.

9           MR. WILLIAM BROWDER: I'm not  
10          qualified --

11          MS. ANYA CARROLL: Then we bring in DHS.

12          MR. WILLIAM BROWDER: Who keeps track of  
13          that data?

14          MR. GRADY COTHEN: The --

15          MR. WILLIAM BROWDER: You, me? Anybody  
16          else?

17          MR. GRADY COTHEN: The Strategic Rail  
18          network is defined between DOT and the  
19          Department of Defense, and the FRA Office of  
20          Policy can tell you at any given time which

21 segments are part of --

22 MR. WILLIAM BROWDER: But they don't

23 keep any separate information on data that

24 might be different in the FRA or more

25 categories or different categories.

1           MR. GRADY COTHEN: I'm not aware of  
2           anything that's relevant to what we are doing  
3           here. There may be something, but I'm not  
4           aware of it. I think that -- granted that  
5           there are a lot of people that we want to  
6           reach out to, and these perspectives we want  
7           to understand. I mean, I think we've met the  
8           enemy, and he is us.

9           You know, the folks represented  
10          here, by in large, are the folks who have  
11          some knowledge and access to information that  
12          is going to be critical to solving the  
13          problem. And it doesn't mean we can't reach  
14          out, we certainly can.

15          We had representatives from the  
16          Twin Cities and western here, members for the  
17          Atlanta association today, that's when  
18          railroads are represented, their officers --  
19          those FRA personnel participate in AREMA  
20          committees. And it -- certainly a lot of

21 different organizations that represent there  
22 that have an interest and some relevant  
23 perspectives to bring to bear. But I think  
24 when we start going looking for data, we are  
25 going to find there are a very limited number



1 of sources of the highly detailed data that  
2 we need.

3 I've got just some interim action  
4 items here. Go ahead, Susan.

5 MS. SUSAN AYLESWORTH: I just wanted to  
6 make a comment about FHWA for a moment. And  
7 I don't know if this is shared by the other  
8 states, but we met with our FHWA safety  
9 person recently, and honestly, FHWA has very  
10 limited interest in railroads and railroad  
11 grade crossings because it represents such a  
12 negligible portion of the total number of  
13 accidents in a state any given year. And  
14 because their resources are constrained, the  
15 time and attention they can devote to the  
16 Section 130 program is limited. So I just  
17 want to make a statement that even though we  
18 feel that highway-rail grade crossings are  
19 highways and highway related, the closest  
20 federal agency we work with is the FRA who

21 really doesn't have the type of jurisdiction  
22 over the type of warning devices at FHWA. So  
23 it is a little bit confusing for us to be  
24 working with an agency that doesn't have much  
25 time for us and then to work closely with an

1 agency that has time for us but doesn't  
2 really have the kind of jurisdictional  
3 authority over the very thing that we are  
4 working on.

5 And part of the problem our funding  
6 is so short is because we are a highway  
7 agency, now more commonly referred to as a  
8 transportation agency, general philosophy is  
9 that the highways get most of the attention,  
10 hence most of the money.

11 So even within our own  
12 organization, if we were to request  
13 additional funds for the purpose of going out  
14 and serving private crossings, I think given  
15 the current financial situation in Minnesota,  
16 it would not be a successful appeal. I think  
17 we would end up with no additional money for  
18 that, because there is so many competing  
19 highway priorities that are going on within  
20 our agency.

21                   So just to sort of give you an  
22                   overview of what we are dealing with. You  
23                   know, frankly, we have been told: You only  
24                   killed eight people last year. And, you  
25                   know, the State of Minnesota killed -- the

1 highway department killed 600; eight versus  
2 600 gets us out of the room. We are told to  
3 leave. We're not even part of the core  
4 safety program because we kill so few people.  
5 So just -- you need to carry that prospective  
6 on. Even if we were to add the deaths at  
7 private crossings, if we had that  
8 information, I don't think we'd get 12 people  
9 killed or 14 people killed. And we injure  
10 about -- we have about 70, 80 accidents a  
11 year, some of which are injury accidents. So  
12 really by comparison it's a big ho-hum for  
13 our state right now. It's not a high  
14 priority. It has been in the past, but --  
15 and it isn't right now. And I think we need  
16 to keep that in mind as we pursue this, that  
17 there may be few, if any, resources that we  
18 could put together to do anything.

19 MR. GRADY COTHEN: And we understand  
20 that perspective and seen it mirrored at the

21 national level and we understand why that  
22 perspective is brought to bear. At the same  
23 time we do work cooperatively with the  
24 Federal Highway Administration, National  
25 Highway Traffic Safety Administration, the

1 FDA and others at DOT on these issues, and we  
2 help one another out a lot. And we  
3 appreciate you all taking the limited time to  
4 help us out here today.

5 You know, it's probably -- you want  
6 to define one of the worst kinds of public  
7 policy problems, this would certainly fall in  
8 the ballpark. It would be a candidate for  
9 that set because we have, you know, nobody  
10 responsible. But we all feel a sense of  
11 responsibility, and we all try to contribute  
12 something. We have limited resources,  
13 granted we have limited resources,  
14 transportation system that's craving  
15 resources, whether it's private railroad or  
16 the highway department. And we have a  
17 certain amount of risks that we are  
18 tolerating here unwillingly, we're at 35, 40  
19 fatalities and many serious injuries  
20 annually, but distributed, you know, over

21 90,000-plus locations with many disparate  
22 characteristics.

23 So, you know, when you want to talk  
24 about a problem at -- that can't -- it just  
25 isn't going to get solved, this is it, it's



1 not going to get solved. And at the same  
2 time we know from our experience that this is  
3 not the first problem to be so characterized.  
4 In the Federal Railroad Administration over  
5 the years, we work through them one by one  
6 and made some headway. Nothing has been  
7 solved ultimately and to the complete extent.  
8 We've been able to make headway together on a  
9 lot of these problems.

10 I think there's some things that we  
11 need to do, and I'm not at all going to cut  
12 off the discussion, but I wanted to sum up  
13 before I lost the thought some things that we  
14 need to do. We'll continue outreach, we had  
15 a very long list of people to whom we've made  
16 initial outreach prior to this meeting. We  
17 have some other additional letters going out  
18 and, you know, we'll make sure that we hit  
19 all the bases in terms of the organizations  
20 involved. But if there is something that you

21 all in the room can do for us because you  
22 served, for instance, on an AREMA committee  
23 and happen to know the information that we  
24 really ought to have here or on a national  
25 committee or whatever it may be to help set

1 us up with the relevant people, some of you  
2 have already started to do that, and we'll  
3 reach out to those additional contacts and  
4 try to make available on our web page for  
5 this activity which is under the FRA safety  
6 web page under highway rail crossings. There  
7 is a click there for private crossings. We  
8 will attempt to add information there for  
9 people to view and to think about as you  
10 consider -- continue to give us some input.  
11 Part of that will be a coordination with the  
12 National Committee on Uniform Traffic Control  
13 Devices. We'll have Ron on the wall, and  
14 have Brian give us what we will need there as  
15 well as contact the committee chair.  
16 And then perhaps in our next  
17 session, for those of you who may follow  
18 this, we will try to get some further  
19 briefing on any AASHTO or AREMA standards  
20 that may be relevant as well as the status of

21 any MUTCD activity.  
22 FRA clearly needs to complete its  
23 rollout of a new interface for updating of  
24 the inventory. And anything any of us, Ron,  
25 the FRA need to do to see that that has

1 priority, let us know, I'd appreciate it.  
2 Put people in a much better frame of mind to  
3 talk about incremental improvements and the  
4 data that we have there as well as  
5 incremental enhancements of the specific  
6 fields that we might want to capture. And I  
7 think that going forward that's one of the  
8 areas that would be a very productive  
9 activity for these meetings. Really what  
10 that involves is getting an update so that we  
11 can make some headway on risk ranking private  
12 crossings.

13 We can establish all the  
14 identification and responsibility that we  
15 want to, but short of doing -- one major  
16 railroad just reported at a break that they  
17 have done, in terms of signing, all of their  
18 private crossings in a major effort,  
19 thousands of crossings, including all  
20 passively signed private crossings. Short of

21           that kind of effort, which is certainly to be  
22           commended, identifying the additional areas  
23           where investments appropriate at either  
24           enclosing or improving from an engineering  
25           standpoint the crossing really requires them

1 to know where to spend the money. And the  
2 railroad officers who have to deal with these  
3 problems every day, may have some sense of  
4 how to do that in terms of crew reports of  
5 problems at those locations and direct  
6 information that you get from communities  
7 becoming aware of increased activity at the  
8 locations and so forth and so on.

9 But from our standpoint, we are  
10 more in the dark on this than we are with  
11 respect to most of the risk analysis issues  
12 that FRA tackles from time to time. I would  
13 hope we could have another roundtable going  
14 forward on trying to get some resolution of  
15 standard recommendations for engineering. We  
16 can start with the technical working group  
17 report which we'll put out on this web page  
18 as well as a general link and see where that  
19 might take us along with the discussion about  
20 developments in the MUTCD committee. And

21        then I'd really like to see the group discuss  
22        triggers which I'll refer to as warrants for  
23        engineering improvements at private  
24        highway-rail crossings. This is probably an  
25        area that could present a significant



1 challenge in terms of waking up everybody  
2 that has an interest in this issue. I think  
3 most of the railroads are awake, alive and  
4 well on this because you deal with it every  
5 day. But those that hold the rights to cross  
6 spend most of their time, I think, worrying  
7 about something else.

8 In the MUTCD, then we have an  
9 indication that it's really indicated that on  
10 a double track main line that automated  
11 warning is really an appropriate thing to do.  
12 That does not mean we that have automated  
13 warning devices at every crossing on double  
14 track main lines, but it's clearly something  
15 that is warranted, and it should in most  
16 cases be done if there is any level of  
17 activity. And if there's not, the railroad  
18 probably wouldn't have turned that second  
19 main into a signing or pulled it out,  
20 cannibalize the materials.

21                   Why not apply the same criterion to  
22                   a private crossing that has public access at  
23                   the industrial use or whatever other criteria  
24                   might apply and ask those who would benefit  
25                   from access to carry that burden. That would

1       require us to identify some warrants and some  
2       risk levels that were appropriate risk  
3       levels, and then to analyze the problems and  
4       determine whether or not on a cost-benefit  
5       basis the investment could be supported and  
6       the Federal Railroad Administration has  
7       looked at investment in public highway-rail  
8       crossings the addition of flashing lights and  
9       gates at locations where currently we only  
10      have passive signage. We've found very high  
11      multiples of benefit to cost such that it  
12      costs us to remain if not the most vigorous  
13      advocate, certainly one of the most biggest  
14      advocates within the Department of  
15      Transportation for continued investment in  
16      engineering improvements at highway-rail  
17      crossings. Even without knowing the  
18      specifics of individual crossings, we can  
19      easily conduct that kind of proforma analysis  
20      against various scenarios that might, in

21 fact, fit out there where you have heavy  
22 trucks, for instance, moving on a regular  
23 basis in and out of quarries, steel mills and  
24 other facilities. And we could certainly  
25 endeavor to add a twist to that with regard

1 to the rail side, the damage and casualties  
2 that does occur which isn't accounted for in  
3 the methodologies that we've used before.

4 But I would just ask the group to  
5 think about the possibility of warrants that  
6 might occur within a structure of federal or  
7 state oversight given the fact that there is  
8 certainly a national interest in doing  
9 something on this front. I don't think we  
10 can continue to build commuter rail service  
11 out without thinking more seriously about  
12 this issue. If there is an area where you  
13 have many public dollars spent and ideally  
14 you have private crossings closed and  
15 alternative access provided, but that's not  
16 the reality in many cases and certainly  
17 Amtrak on an inner-city basis continues to  
18 suffer from. And one of the challenges that  
19 it presented at many highway-rail crossings  
20 and some analysis that we've done indicates

21           that about a third of their lawsuits from a  
22           safety point of view in terms of train  
23           accidents result from events at highway-rail  
24           crossings, many of which are at private  
25           crossings. So from a point of view provision

1 of inner-city rail service, it's a matter of  
2 some interest. Commuter service, inner-city  
3 rail service and finally freight rail service  
4 including services that involves handling  
5 hazardous materials and importantly  
6 politically the lives of railroad crew  
7 members that may be subjected to death or  
8 serious injury in a collision with a heavy  
9 motor vehicle. The NTSB asked us to set up  
10 periodic safety reviews of highway-rail  
11 crossings. Railroads that have been  
12 aggressively trying to close private  
13 crossings may have some ideas of program  
14 models that make some sense there.

15 And then finally we have talked in  
16 the notice about resolution of disputes  
17 regarding who is going to be responsible for  
18 doing what out there. And the extent of  
19 which a private crossing should be retained  
20 or must be retained because of the need to

21 maintain the value of the property to which  
22 it provides access. It's been our experience  
23 in listening to the stories out of the states  
24 that have wrestled with this that the  
25 administrative processes in many states which



1 mirror language that you can find in the  
2 Federal Administrative Procedure Act are  
3 extraordinarily cumbersome in relation to the  
4 subject matter. And we don't have any  
5 particular interest in replicating that at  
6 the federal level, we are encouraging  
7 proliferation of that. But if you -- if one  
8 establishes sufficiently objective criteria  
9 for decision-making, one typically is not  
10 required to engage in that kind of  
11 fact-finding. Only when you entrust to the  
12 hearing officer significant amounts of  
13 discretion do you end up with that kind of  
14 procedure. You won't find that, I don't  
15 think, in a law book, but that's the way  
16 things happen. So I think it's highly  
17 desirable for this community together with  
18 the community of those who hold the rights  
19 plus the railroad, to come up with a set of  
20 sufficiently objective criteria to get these

21 issues resolved without extensive  
22 on-the-record proceedings in as many cases as  
23 possible. But that mechanism is an  
24 alternative mechanism, and however it is, I'm  
25 not sure. Obviously alternative dispute

1 resolutions greatly can be advocated and used  
2 more and more at the federal and state level  
3 with public matters as it is in private  
4 arbitration. But if you don't have a  
5 baseline method for resolving disputes, then  
6 the alternative methods sort of don't have  
7 anyplace to start from.

8 Other topics, issues that we need  
9 to be working on today before we do some more  
10 work?

11 MS. ANYA CARROLL: Grady, I just wanted  
12 to mention our next meeting is September 27th  
13 in Raleigh, North Carolina, and there will be  
14 an announcement coming out shortly. But  
15 North Carolina DOT was the lucky state to  
16 have been part of the high speed rail  
17 corridor development, and they have done a  
18 lot of work with the corridor. And they have  
19 data on their private crossings being  
20 upgraded to either signs or signals that we

21           may want them to present at that meeting in

22           September.

23           MR. GRADY COTHEN: For general

24           background on the issue, you'll want to look

25           for the sealed corridor study in the Office

1 of Railroad Development's page, research and  
2 development page, I believe they are in. For  
3 general background, that would be useful  
4 reading. We also expect to go out to  
5 California in October.

6 MS. ANYA CARROLL: We hope the last week  
7 of October.

8 MR. GRADY COTHEN: Okay. Last week of  
9 October. Then to New Orleans.

10 MR. RONALD RIES: December 6th.

11 MS. ANYA CARROLL: December 6th in New  
12 Orleans.

13 MR. GRADY COTHEN: We will be putting  
14 out notices on all of this. And then we are  
15 looking at possibly going to New York state.  
16 I guess we ought to tell them people from New  
17 York state we're coming, call DOT; but  
18 looking at another possibility in the  
19 northeast in December as well to close out  
20 this round of public meetings.

21           MR. WILLIAM BROWDER: The last day of  
22           October, Halloween and the first of November  
23           is the 2006 Eastern Region Highway-Rail Grade  
24           Crossing Conference hosted by West Virginia  
25           DOT. I think that might conflict with what

1           you all are doing.

2           MS. ANYA CARROLL: Thank you, Bill.

3           MR. DAVID PETERSON: Grady, did you say  
4           what the date was for the San Diego meeting?

5           MS. ANYA CARROLL: It's San Francisco.  
6           And it's during the last week in October, but  
7           we have not found a facility yet.

8           MR. GRADY COTHEN: So we thank the State  
9           of Minnesota and look forward to visiting  
10          with our colleagues in North Carolina and  
11          California.

12                  Anything else that you want to add  
13          to the cause? If not, I want to thank  
14          everybody offering statements, suggestions,  
15          comments, information today. We ask you to  
16          continue to follow the proceeding either  
17          being with us or through the public docket  
18          where we will post all of the information as  
19          well as the web site. And I'd like to have  
20          any written comments at all if you want to

21           make it part of the public docket at least be  
22           entered into it and reviewed. Thanks very  
23           much to all and the folks here for the use of  
24           the facility and the hospitality.  
25                   And with that, we hope you all



1 travel safely and we are adjourned.

2

3 (Whereupon, at 2:18 p.m., the foregoing

4 meeting was terminated.)

5

6 \*\*\*REPORTER'S NOTE: The original transcript is being

7 delivered to Anya Carroll.

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1 STATE OF MINNESOTA )

2 COUNTY OF HENNEPIN )

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I hereby certify that I reported the  
4 foregoing proceedings on the 30th day of August, 2006.

5 That the testimony was transcribed under my  
direction and is a true record of the testimony;

6

That the cost of the original has been  
7 charged to the party who noticed the meeting, and that  
all parties who ordered copies have been charged at  
8 the same rate for such copies;

9 That I am not a relative or employee or  
attorney or counsel of any of the parties, or a  
10 relative or employee of such attorney or counsel;

11 That I am not financially interested in the  
action and have no contract with the parties,  
12 attorneys, or persons with an interest in the action  
that affects or has a substantial tendency to affect  
13 my impartiality;

14

15 WITNESS MY HAND AND SEAL this 12th day of  
September, 2006.

16

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19 (Seal) \_\_\_\_\_  
Dana S. Anderson

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4 SAFETY at PRIVATE HIGHWAY-RAIL GRADE CROSSINGS

5 PUBLIC MEETING AGENDA

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11 McKimmon Conference & Training Center  
12 North Carolina State University, 1101 Gorman Street  
13 Raleigh, NC 27606

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19 Wednesday, September 27, 2006  
20 9:30 a.m. - 5:00 p.m.

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1                   PANEL MEMBERS

2

3 GRADY C. COTHEN, JR, Deputy Associate Administrator,  
Office of Safety, Federal Railroad Administration. U.S.

4 Department of Transportation Federal Railroad  
Administration.

5

6 PAUL WORLEY, CPM, Assistant Director for Engineering &  
Safety, NC Department of Transportation, Rail Division,

7 Engineering & Safety Branch.

8

9 MIRIAM KLOEPPEL, Operations Research Analyst, U.S.  
Department of Transportation, Federal Railroad

10 Administration.

11

12 RONALD RIES, Staff Director, Crossing Safety & Trespass  
Prevention Program, U.S. Department of Transportation,

13 Federal Railroad Administration.

14

15 ANYA A. CARROLL, Principal Investigator, Rail and Transit  
Systems Division, Volpe National Transportation Systems

16 Center.

17

18 PAT SIMMONS, Director, Rail Division, North Carolina  
Department of Transportation.

19

20 WILLIAM M. BROWDER, Director of Operations, Association of

American Railroads.

21

22

23

Also Present:

24

JASON FIELD, NCDOT Rail Division

25

GEORGE YOUNG, NCDOT



- 1           Also Present (Continued):
- 2           ROBERT N. PRESSLEY, JR., P.E.
- 3           ARTHUR PETTEWAY
- 4           RIC CRUZ, NCDOT
- 5           JOHN BRYANT
- 6           DALE BRAY
- 7           GARY SHANK
- 8           DONALD THOMAS
- 9           LESLIE SPURLOCK
- 10          ROGER LIPSCOMB
- 11          JOHN PERRY
- 12          DANNY GILBERT
- 13          RICHARD WESTBROOK, UTU
- 14          GLENN LAMM, UTU
- 15          TINA MEDLIN, Remax
- 16          BILL BARRINGER
- 17          HASKEL STANBACK, NS
- 18          STUART SCHWARTZ, NS
- 19          SHANE WHITEMORE, CSX
- 20          CLIFF STAYTON, CSX

21           SUSAN TAYLOR

22

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1           P R O C E E D I N G S

2           (On the record at 9:33 a.m.)

3           MR. COTHEN: Can we begin together  
4 here.

5           Good morning. Happy to have you here.

6 My name is Grady Cothen, and I'm out of  
7 uniform. I left my jacket at home. But if  
8 it helps everybody else to take theirs off,  
9 then that's good, because what we want today  
10 is a good exchange among colleagues and  
11 friends and those who come in and get to  
12 know this group about safety at private  
13 highway-rail grade crossings. If that's not  
14 the topic you expected, you probably want to  
15 be in a core credit course in another room.

16           We are very happy to be in Raleigh  
17 today as guests of North Carolina DOT and to  
18 hold this public safety inquiry with  
19 everyone in attendance.

20           The first thing we always try to do,

21 other than remembering our jackets, is to  
22 have a safety briefing. Ron Ries is staff  
23 director for highway-rail grade crossings  
24 safety, and he will kick it off.  
25 MR. RIES: Good morning. In the

1 likely event that there is an emergency, if  
2 there is something that's within the  
3 building, a fire, the alarms will go off.  
4 We have several options for exiting the  
5 building. If you go through the door on the  
6 left, the back of the room, that takes you  
7 directly into the lobby, and then you may  
8 take a left, and that will take you out to  
9 the front parking lot, continue all the way  
10 to the street and we will gather there.

11 If that entrance is blocked, we can  
12 also go out the other door in the back to  
13 the right, go to the hallway and take  
14 another right. That takes us to the back  
15 parking lot, and there's a line of pine  
16 trees in the back, so that will be a good  
17 place for us to gather as well.

18 If for some reason we need to have an  
19 emergency response, the house telephone,  
20 which you might not be able to see, but

21 behind the flip chart there at the back goes  
22 directly to the front desk. They will then  
23 call 911 and provide the proper  
24 instructions, so they will have somebody  
25 here as quickly as possible.

1           Is there anyone here that's CPR  
2 certified? We have four people. That will  
3 be very popular in case something happens.  
4 Hopefully if something happens, you would be  
5 willing to help with that.

6           The restroom facilities, gentlemen, if  
7 you go out the door to the back to the  
8 hallway, just a quick little left, it's  
9 there. The ladies room is to the right down  
10 the same corridor, almost to the door.

11          I look forward to having a very  
12 productive meeting.

13          MR. COTHEN: Thank you, Ron. We will  
14 do inductions of FR18 members here in a  
15 minute. I'd like to ask for greetings  
16 first. The Federal Railroad Administration  
17 have a particularly close relationship  
18 across a broad number of issues with the  
19 North Carolina Department of Transportation,  
20 in particular, the rail division. This is a

21 group of individuals who in the provision of  
22 passenger rail service, promotion of freight  
23 rail service, and particularly close to our  
24 heart, the promotion of rail safety, do an  
25 exceptional job in providing a leadership



1 role nationally in terms of the public's  
2 interest in safe and efficient rail service.

3 So I'd like to ask Pat Simmons, who is  
4 director of the rail division, North  
5 Carolina DOT to bring greetings.

6 MR. SIMMONS: Greetings. Thank you  
7 Grady. And thank you for bringing your team  
8 here and for bringing the Federal Railroad  
9 Administration, and we genuinely do have a  
10 positive and strong working relationship, a  
11 partnership, as we -- in a moment I'm going  
12 to introduce some of my folks, but those of  
13 you in the room who are familiar with the  
14 program and our department, I know we work  
15 in the areas of track safety equipment that  
16 operates over our state's railroads  
17 crossing. Safety is an area where we spend  
18 a lot of time and energy, developing new  
19 partnerships and then developing new  
20 passenger rail service.

21           In Washington, as here in Raleigh, in  
22           North Carolina, public partnerships are  
23           again in vogue, and today's topic of dealing  
24           with private crossings will, I hope, get us  
25           to that topic a little bit as well.

1           One of the challenges that we have in  
2           administering our program is we do not as a  
3           state have direct authority over private  
4           crossings. So that's an area where I'm not  
5           seeking more responsibility or more  
6           authority, but we need tools to improve  
7           safety.

8           We've had good partnerships also in  
9           North Carolina with our communities in  
10          developing crossing safety programs with our  
11          family of some two dozen or so freight  
12          railroads in the state, our labor and  
13          employees on the railroad and, of course,  
14          with Federal Railroad Administration.

15          Along the way some of our folks have  
16          helped invent some new terms of art in  
17          railroad crossing safety, including sealed  
18          corridor and PCSI terms. If you don't know  
19          what they mean, you will learn more about  
20          them later today.

21           And one of the things that we value a  
22           great deal is that we have been able to  
23           partner with all of these folks to improve  
24           safety through elimination of crossings that  
25           were redundant or in addition to what we

1 normally needed. That's always presented  
2 some challenges.

3 I'm pleased with North Carolina DOT.

4 We have a team of folks that are dedicated,  
5 some of them are actually trained to do what  
6 they do. I'm not. I'm a marine biologist.

7 We have a media specialist. We have a home  
8 economist, and we have a historian that help  
9 lead our vision. But their skill in looking  
10 at problems, critically examining them,  
11 finding solutions, being able to and willing  
12 to compromise and partner with whomever we  
13 can has been very helpful. With our  
14 engineering and safety branches led by Paul  
15 Worley, second to none among the other folks  
16 we have here. Let me ask you all, everyone  
17 is looking at Paul, so the rest of you,  
18 Jason Fields with the pink tie, we  
19 appreciate that. George Young, who heads  
20 our FRA certified safety program. Arthur

21      Petteway, who both guides us from an  
22      engineering standpoint and procurement of  
23      contract assistance standpoint. And Ric  
24      Cruz, who has a range of technical expertise  
25      that he contributes to our crossing safety

1 program.

2 Thank you all for what you do, and  
3 thank you FRA for blessing us and coming  
4 here today, welcome.

5 MR. COTHEN: Thanks very much, Pat.  
6 Ron, you want to introduce the FRA  
7 crossing team here?

8 MR. RIES: We have several of our  
9 grade crossing managers here from Region 2,  
10 Don Thomas, who handles sort of the north  
11 central states along the eastern coast. And  
12 from Atlanta, from Region 3, we have Leslie  
13 Spurlock. And also from the Washington  
14 headquarters division is Miriam Kloeppe.  
15 You will hear from her later. And also from  
16 Volpe, Anya Carroll, one of the leading  
17 research experts in crossing safety. We are  
18 happy to have Volpe here supporting this  
19 effort and also providing staff is; Myrna  
20 Gustave and Perla Garcia in the back.

21 MR. COTHEN: All right, thank you.  
22 I'm going to have Ron do the crystal duty.  
23 Normally, when we go out on these events, we  
24 take counsel with us, purely for the  
25 edification of counsel I might add, and



1 counsel was not able to travel on this one.

2 And so Ron will provide the obligatory legal

3 officers' statement, and push comes to

4 shove, I will revert to my membership in the

5 DC bar to handling issues.

6 Go Ron.

7 MR. RIES: My only qualification for

8 doing this is I'm married to an attorney.

9 Good morning. The purpose of this

10 public meeting is fact finding. This is the

11 second in a series of public meetings

12 nationwide, which you and other members of

13 the public will have the opportunity to

14 provide information to FRA about issues

15 related to the safety of private

16 highway-rail grade crossings.

17 This public meeting is not meant to be

18 a forum for debate. Instead, we are here to

19 listen to you and provide an opportunity for

20 you to state your views on the record for

21 review and consideration.

22 In order to provide each of you an

23 equal opportunity to express your views and

24 comments, the following procedure will be

25 used.

1           Each person will be permitted to make  
2           an oral statement. However, persons  
3           representing the same organization may speak  
4           as a group.

5           At the beginning of your oral  
6           statement, we'd ask to make sure you come to  
7           a microphone so we can get a good  
8           transcription of what is being said. Come  
9           to the microphone. Please identify  
10          yourself, spell your name and indicate  
11          whether you are appearing as an individual  
12          or in a representative capacity.

13          At the end, FRA representatives may  
14          ask questions in order to obtain  
15          clarification of points made during your  
16          statement. We will then move onto the next  
17          oral statement.

18          If you refer to a document in your  
19          oral statement that has not yet been  
20          provided to FRA, please provide a copy of a

21 document to an FRA representative so it can  
22 be marked for identification and added to  
23 the public docket.  
24 Today's meeting is being transcribed  
25 and will become a part of the public docket

1 on this issue.

2 The transcript of each public meeting  
3 will be available for viewing and  
4 downloading at the Department of  
5 Transportation's docket management system  
6 web site at HTTP//DMS.dot.gov, and please  
7 note that www is not used in the web  
8 address.

9 The entire public docket is also  
10 available for inspection at the Department  
11 of Transportation's docket facility room,  
12 which is located in Room PL, Plaza 401 at  
13 400 7th Street S.W. in Washington, D.C.  
14 Thank you.

15 MR. COTHEN: Okay. I think you have  
16 in your packet the initial federal register  
17 notice on this activity that gives you the  
18 information about the docket as well. We  
19 can refer to it in the future.

20 Last week, we had a railroad safety

21 advisory committee meeting in Washington,  
22 D.C. As a part of that Miriam Kloeppe, who  
23 you will hear from in just a moment, made a  
24 presentation about this activity. The  
25 deputy administration and the administration

1 was sitting next to me at the front table,  
2 and I turned to him and I said, Cliff, I  
3 said, you know, we've got 95,000 private  
4 crossings out there. We've got significant  
5 amount of risk. It's widely disbursed. We  
6 don't have any standard signage. There's no  
7 assignment of responsibility. There's no --  
8 we don't have a program, but other than  
9 that, everything is under control. And I  
10 think that that perhaps is a bit of an  
11 overstatement, but only slightly in the  
12 category of hyperbole. Actually, America's  
13 railroads have a big challenge in dealing  
14 with private crossing issues to the benefit  
15 of the users of those crossings and the  
16 safety of their own operations and  
17 personnel. And they do a good job trying to  
18 manage those issues on a day-to-day basis.

19 The real issues before us today is  
20 whether or not maybe a little help is in

21 order in terms of some regularity in public

22 policy across the nation.

23 We thought the best way to find out

24 about that was to go out and hear from

25 people as much as we could around the



1 country. So we have been trying to beat the  
2 bushes and get folks in with diverse  
3 viewpoints about the subject matter. And,  
4 you know, I recognize there are a number of  
5 people in the audience and been reminded  
6 from the sign up list of the identity and  
7 background of others. So I think we're  
8 still in the process of beating the bushes,  
9 but we do have a core of folks here who know  
10 a lot about the subject. So we expect to  
11 have a good day.

12 We do appreciate everyone attending.  
13 We do want to make this as helpful and as  
14 informal as we can. As Ron indicated in the  
15 legal officer's statement, we are taking a  
16 transcript, which we'll place in the  
17 electronic docket so that everybody can  
18 access it.

19 So if you can be helpful to us, as we  
20 go forward, and as you speak, if you just

21 identify yourself and your organization each  
22 time you speak, then the court reporter will  
23 be able to provide the best quality  
24 transcript.  
25 Before we go any farther, I will

1 recognize Miriam Kloeppe, who is operations  
2 research analyst in our highway rail grade  
3 crossing safety staff officer and safety  
4 analysis to set the stage.

5 MS. KLOEPPPEL: Good morning. I will  
6 turn this on.

7 Thank you all for coming. I'm just  
8 going to provide a little overview, as Grady  
9 suggested, about the current status of what  
10 we understand to be the current status of  
11 safety at private crossings nationwide.

12 Private crossing safety has been for  
13 some time a matter of concern to the US  
14 Department of Transportation and to other  
15 federal agencies. In 1993, the FRA hosted  
16 an open meeting to initiate industry wide  
17 discussions.

18 In its 1994 Rail Highway Safety Action  
19 Plan, the United States Department of  
20 Transportation proposed to develop national

21 minimum standards for private crossings.  
22 In its 1997 study on safety of passive  
23 grade crossings, the NTSB highlighted the  
24 need for some system to improve private  
25 crossing safety and recommended that the US

1 DOT, in conjunction with the states,  
2 determine governmental oversight  
3 responsibility for safety at private grade  
4 crossings.

5 In 1999, the NTSB weighed in again in  
6 its report on a private grade crossing  
7 accident in Portage, Indiana. In this case,  
8 the NTSB recommended that the DOT eliminate  
9 any differences between public and private  
10 crossings with regard to funding or  
11 requirements for safety improvements.

12 In 2004, the US DOT published an  
13 updated action plan in which the FRA  
14 committed to leading an effort to define  
15 responsibility for safety in private  
16 crossings. Today's meeting is a vital part  
17 of that effort.

18 What I did was I took the crossing  
19 count by state, which is easily retrieved  
20 from our safety data web site, and I grouped

21 it into our geographic regions. And as you  
22 can see, regardless of geographic region,  
23 private crossings constitute a significant  
24 percentage of all at-grade crossings. The  
25 total count nationwide for private crossings

1 is about 94,000.

2 Although accidents at public crossings  
3 have declined considerably over the past 20  
4 years, declining by one-third over the past  
5 decade alone, the number of accidents at  
6 private crossings has remained comparatively  
7 stable, declining only ten percent over the  
8 past decade. In most years, the number of  
9 fatalities occurring in accidents at private  
10 crossings exceeded the number on-duty deaths  
11 among railroad employees in all railroad  
12 operations. The following are a few  
13 examples.

14 About one p.m. on May 30, 2006, Amtrak  
15 train No. 350 struck an empty gravel truck  
16 at a private highway-rail grade crossing  
17 near Jackson, Michigan. The train was  
18 traveling about 74 miles per hour when the  
19 truck entered the crossing in front of the  
20 train. One train crew member and 15

21 passengers received minor injuries in the  
22 accident. The truck driver sustained fatal  
23 injuries.  
24 The private road accident crossing is  
25 used by an excavating company and by two



1 residences. On average, fewer than 30  
2 highway vehicles and a dozen trains, eight  
3 of which are Amtrak, traverse the crossing  
4 daily. It's estimated the crossing was  
5 created about 1948. There is no record of  
6 any maintenance contract between the  
7 business owner and Norfolk Southern  
8 Railways.

9 About 4:40 p.m. on July 3, 2006,  
10 southbound Amtrak train 8507-03 struck a  
11 passenger vehicle at a private crossing near  
12 Castle Rock, Washington. According to the  
13 Amtrak engineer, the accident occurred when  
14 a motorist entered the crossing after a  
15 northbound train cleared it. Train crew and  
16 train passengers sustained no injuries, but  
17 all four motor vehicle occupants sustained  
18 fatal injuries. The road leading to this  
19 crossing is a county road, but county  
20 maintenance ends shortly before the

21 crossing, and a private road that extends  
22 beyond the crossing dead ends after serving  
23 11 residences. About 60 trains daily  
24 traverse this crossing. It's not known when  
25 this crossing was created, and no

1 maintenance contract had been located for  
2 this crossing.

3 About 7 p.m. on June 21, 2006, a metro  
4 train traveling south at a recorded speed of  
5 79 miles per hour struck a truck trailer  
6 traversing a private grade crossing near  
7 Lemont, Illinois. A piece of the trailer  
8 became wedged under the snow pile of the  
9 locomotive, and the locomotive derailed the  
10 crossing. The driver of the tractor trailer  
11 was not injured. There were 170 passengers  
12 aboard the train. Five passengers claimed  
13 minor injuries and were treated and  
14 released. No train crew members reported  
15 any injury. This crossing serves two  
16 commercial facilities to which there is no  
17 other access. Roughly 28 trains and fewer  
18 than 30 highway vehicles use this crossing  
19 daily. The crossing is maintained by the  
20 Canadian National Railway, but there is no

21 formal agreement.

22 As a side note, about six months prior

23 to this accident in December of 2005,

24 another accident occurred at this same

25 crossing. The truck driver in the December

1 accident sustained fatal injuries.

2 As many of you know, the FRA maintains  
3 a national inventory of all crossings  
4 public, private or pedestrian at grade or  
5 grade separated. The data are used by many  
6 state, federal or private organizations for  
7 research or for resource allocation. It's  
8 updated by the states and by the railroads  
9 on a voluntary basis.

10 As you can see, only about one-third  
11 of the efforts for private crossings have  
12 been updated within the past five years and  
13 a significant portion of records have never  
14 been updated. Analysis on data of this  
15 quality must necessarily be somewhat  
16 tentative.

17 I don't expect you to read this. I  
18 just put this up for illustration.

19 This is a shot of the form on which  
20 crossing data are collected for the national

21 inventory. Almost all the data elements are  
22 required for public crossings. For private  
23 crossings, however, only the sections I have  
24 shaded are collected.  
25 As a result, even when a private

1 crossing record is up to date, potentially  
2 useful data are not collected. This slide  
3 just illustrates a small sample of the  
4 differences.

5 According to the FRA's 2002  
6 compilation of state laws and regulations  
7 affecting highway-rail grade crossings, the  
8 state's approaches to private crossings are  
9 highly varied. Take, for example, the  
10 extent of control held over the creation or  
11 closure of private crossings.

12 Here are some examples of the degree  
13 to which traffic control devices are  
14 standardized at private crossings.

15 At the time we were putting this  
16 together, these were the only states that  
17 said they had any control at all, according  
18 to the compilation. I will clarify that.

19 And, again, according to that  
20 compilation, more than half the states have

21 no laws or regulations at all relating to

22 private crossings.

23 The American Association of State

24 Highway and Transportation Officials or

25 AASHTO, has a standard committee on rail



1 transportation which most people just refer  
2 to as SCORT. SCORT provides an arena  
3 whereby members, states and the railroads  
4 can exchange technical information, review  
5 existing regulations and proposed changed or  
6 new legislation or regulations. Currently,  
7 SCORT has a document or resolution on  
8 railroad safety improvement and enforcement  
9 calling for research and development and  
10 improved and lower cost technologies for  
11 warning systems. The resolution also  
12 believes that any future comprehensive  
13 national transportation program must  
14 continue to provide funds for consolidating,  
15 separating or otherwise protecting railroad  
16 highway grade process.

17 Neither the committee's policy  
18 statements nor its resolutions make any  
19 overt distinction between public and private  
20 crossings. But it should be remembered that

21 the majority of the members represent  
22 states, and it's unlikely that AASHTO will  
23 exercise jurisdiction beyond the  
24 jurisdictions of its members.  
25 The federal government, in the guise

1 and various US DOT agencies, does offer some  
2 regulations or guidance documents that may  
3 touch on safety of private crossings. As  
4 you can see in this example, however, none  
5 of these really covers a significant portion  
6 of the nation's private crossings. We range  
7 from about one percent of the private  
8 crossings for signal systems to 25 percent  
9 of all crossing accidents being addressed by  
10 the freight carrier organization, and the  
11 manual on uniform traffic control devices  
12 applies to public crossings.

13 In fact, there is no federal  
14 regulation or guidance that promotes safety  
15 of private grade crossings by specifically  
16 or uniformly addressing the special issues  
17 presented at private crossings.

18 Some private crossings may be used  
19 only seasonally, like certain farm crossings  
20 used only for agriculture equipment, or they

21      may be used only for routine personal use,  
22      like crossings that serve residences.  
23            Other private crossings, such as this  
24      industrial access crossing, are used  
25      extensively for private business purposes by

1 employees, contractors and suppliers. In  
2 still other cases, they may be used very  
3 heavily by the public to enter commercial  
4 facilities.

5 The rights assigned to the private  
6 crossing holders vary greatly. A holder of  
7 the right of privileged cross may hold  
8 outright ownership of the underlying  
9 property or have documented easement over  
10 the railroad property. Where it is  
11 recognized, the holder may have a  
12 prescriptive easement or squatter's rights  
13 essentially. There may be a documented  
14 license under contract, or maybe only a  
15 verbal license, subject to revocation  
16 without notice.

17 Railroads may require the crossing  
18 holders to purchase insurance or provide  
19 some other protection in the event of a  
20 collision at the crossing. Contracts or

21 other legal documents may further define  
22 responsibilities, such as maintenance of  
23 crossing surface or providing notifications  
24 under stated conditions.  
25 This is just a slide, showing the

25

1 address for the docket submissions, as Ron  
2 Ries mentioned, and it would certainly be  
3 minimal to bring that back up if people  
4 want. But I wanted to go along here.

5 The FRA solicits discussion and  
6 comments on all areas of safety and private  
7 crossings, but particularly encourages  
8 discussion on the following topics: At  
9 grade highway rail crossings present an  
10 inherent risk to users, including the  
11 railroad and its employees, as well as to  
12 other persons in the vicinity should a train  
13 derail into an occupied area or release  
14 hazardous material. From the standpoint of  
15 public policy, how do we determine whether  
16 creation or continuation of a private  
17 crossing is justified?

18 How do we determine when a private  
19 crossing has a public purpose and is subject  
20 to public use?

- 21           How should improvement or maintenance  
22   responsibilities be allocated?  
23           Is there a need for alternative  
24   dispute mechanisms to handle disputes  
25   between private crossing owners and



1 railroads?

2 Should some crossings be categorized

3 as commercial crossings rather than as

4 private crossings?

5 Should there be nationwide standards

6 for warning devices at private crossings or

7 for intersection designed for newly created

8 private crossing?

9 Are there innovative traffic control

10 devices that could improve safety of private

11 crossings at major railroad corridors,

12 including those where passenger services are

13 provided?

14 Is the current assignment of

15 responsibility for safety at private

16 crossings effective?

17 Do risk management practices

18 associated with insurance arrangements

19 result in "regulation" of safety at private

20 crossings?

- 21           Should state and federal governments  
22           cooperatively work to determine  
23           responsibility and provide oversight?  
24           Should the US DOT request enactment of  
25           legislation to address private crossings?

1 If so, what should it conclude?

2 There is some standardization of  
3 treatment at public crossings across the  
4 nation. For example, the confirmation and  
5 use of signs, signals, pavement markings and  
6 any other traffic control devices placed at  
7 public crossings generally conform to the  
8 guidance provided in a manual on uniform  
9 traffic control devices.

10 In addition, in 2002, the United  
11 States Department of Transportation  
12 published a guidance document created  
13 through the efforts of a technical working  
14 group made up of representatives from both  
15 the public and private sectors, and although  
16 it does specifically say that it is for  
17 public crossings, in most states, there is  
18 no such standardization in private  
19 crossings.

20 The arrangement of private crossing

- 21 signs can be highly individual, and sign  
22 maintenance may be sketchy or nonexistent.  
23 I will just emphasize there is a crossbuck  
24 there.  
25 To gather information on the current

1 state-of-the-art, as well as ideas about  
2 possible solutions to the existing problems,  
3 the FRA is holding a series of public  
4 meetings. The first of these was held  
5 August 30 in Fort Snelling, Minnesota.  
6 Obviously, this is the second, and there  
7 will be two additional meetings on  
8 October 26 in San Francisco, and on December  
9 6 in New Orleans.

10 This is not a complete list of  
11 organizations represented at the meeting in  
12 Fort Snelling, but rather those  
13 organizations who provided either formal  
14 statements or substantial input during the  
15 meeting.

16 Numerous topics were discussed in Fort  
17 Snelling, but to my mind, they fell into a  
18 few different categories. In the first, it  
19 seemed that attendees agreed that there is  
20 no existing process that would provide

- 21 consistent structures to create or to
- 22 reevaluate the relative need for new private
- 23 crossings or to upgrade or close existing
- 24 private crossings.
- 25 Attendees also seemed to indicate that

1 different parties often used different  
2 definitions to decide whether a crossing was  
3 public or private.

4 In addition, much discussion centered  
5 on the fact that private crossings are  
6 created for a wide variety of reasons,  
7 including residential, industrial,  
8 commercial, institutional or temporary, and  
9 these crossings may be used to varying  
10 degrees by members of the general public,  
11 may be traversed by users ranging from  
12 pedestrians to construction vehicles or  
13 hazardous materials and tank trucks.

14 I think this concludes the comments I  
15 had. I just thought I'd open up discussion  
16 at this point, or Grady, we can pass it on  
17 to Paul. Thank you.

18 MR. COTHEN: Thank you, Miriam. From  
19 the point of view of the FRA team, this is  
20 where we begin learning something. We

21 brought you an introduction, and I'd like to  
22 recognize Paul Worley, assistant director  
23 for engineering and safety of the rail  
24 division North Carolina DOT. Paul is a long  
25 time FRA colleague. He is a member of our



1 railroad safety advisory committee and a  
2 leader in his field.

3 So Paul, take as much time as you need  
4 or want.

5 MR. WORLEY: Thank you, Grady.

6 Again, Paul Worley, assistant director  
7 for engineering and safety with NCDOT's rail  
8 division, and today I'm going to give some  
9 general technical comments on behalf of our  
10 department. And I do want to put a  
11 disclaimer that they do not present policy  
12 position for the Department of  
13 Transportation or our board of  
14 transportation on private railroad  
15 crossings.

16 I invited Ron Ries back in June to  
17 come to North Carolina to have one of the  
18 national private crossing meetings here  
19 because of the issues we have here in our  
20 state. We thought they could be very

21 interesting and add a lot to the subject of  
22 this being discussed nationwide.  
23 Following the implementation of -- a  
24 great part of the implementation of Sealed  
25 Corridor, the NCDOT has taken the same

1 off-the-shelf or clear-minded solutions  
2 approach to private crossings on the Raleigh  
3 and Charlotte border. We emphasized closure  
4 and alternate access of possible  
5 signalization of high volume crossings,  
6 signage and even consider new mandates and  
7 laws.

8 North Carolina is one of a few states  
9 to pursue private crossing safety  
10 improvements. On the Raleigh/Charlotte  
11 corridor, we've received around \$1.9 million  
12 from FRA in special mixed generation high  
13 speed rail funds for a steady and a pilot  
14 program for closure and safety improvements.

15 In addition, as part of the  
16 comprehensive corridor studies, we have not  
17 been able to ignore the special needs and  
18 challenges of private crossings when  
19 evaluating public crossings. The use of  
20 such private crossings, accuracy of

21 inventory information, as well as the sheer  
22 number on some corridors certainly has  
23 served to open the eyes of corridor  
24 diagnostic teams and require attention and  
25 innovative approaches for closures and

1 improvements.

2 There are many challenges for private  
3 crossings, as Miriam mentioned, and some  
4 that we see and deal with every day.

5 First of all, as a private issue,  
6 there are generally no public funds for  
7 capital improvements on the state or federal  
8 level or maintenance beyond special grant  
9 funds, which we have been fortunate to  
10 receive.

11 There are varied types. I will name  
12 just a few, and you may even have more.  
13 Private use residential, farm, industrial,  
14 plant to plant, railroad, private crossings,  
15 and then there are the public use crossings  
16 residential development, business,  
17 industrial, recreational and even golf cart  
18 crossings, and those are important.

19 By the time private crossing issues  
20 present themselves at the state level, they

21 are sometimes politically charged, and often  
22 all we can do is listen and refer to  
23 railroad officials to keep people talking  
24 and collaborating.  
25 Private agreements and deeds may cover

1 the crossings and involve multiple parties  
2 over many years.

3 And then finally resources to maintain  
4 an accurate inventory of private crossings  
5 in a comprehensive manner is not there  
6 either at the federal state level.

7 Bob Pressley, project engineer with  
8 the consulting firm of Gannett Fleming, will  
9 make a presentation on some of the crossing  
10 studies and safety initiatives they have  
11 been involved with our department over the  
12 last few years. Their studies have included  
13 the federal designated southeast high-speed  
14 rail corridor, which is also the NS main  
15 line, a potential rail transit commuter  
16 line, and an intercity passenger freight  
17 corridor. NCDOT has learned that we must  
18 partner with the owning/operating railroads  
19 to find comprehensive and innovative  
20 approaches to address this issue.

21           But first, a few weeks ago we gathered  
22           our crossing brain trust together, these  
23           guys over here, and tried to respond to some  
24           of the nine issues that were noted in the  
25           notice of inquiries.



1           The first one was the crossing  
2           assignment responsibility for safety of  
3           private crossings effective. And to what  
4           extent do risk management practices  
5           associated with insurance arrangements  
6           resulted in regulations and safety of  
7           private crossings?

8           Well, our first thought was there's  
9           not a consistent nationwide approach of  
10          private crossings. Instead, each railroad  
11          determines what can and will be done to  
12          improve safety and manage the risk at those  
13          crossings. There is a significant need to  
14          correct and update uniform data into the  
15          national state crossing inventories, and to  
16          ensure appropriate safety management  
17          practice. USDOT, railroads through AREMA  
18          and AAR, the states through AASHTO, and rail  
19          transport operators through APTA should  
20          collaborate to develop a consistent

21 approach, such as was done with the Crossing  
22 Technical Work Group document was developed  
23 through ITE.  
24 The second questions was: How should  
25 improvement or maintenance costs associated

1 with private crossings be allocated?

2 Well, stakeholders, federal and state  
3 agencies, local government, transit  
4 authorities, railroads and private crossing  
5 owners may eventually need to develop a  
6 methodology to share costs associated with  
7 grade crossing safety treatment,  
8 construction and maintenance based on local  
9 conditions and needs and users. Such  
10 conditions include transit and passenger  
11 rail corridors, higher speed and  
12 conventional, quiet zones as well as  
13 critical intermodal corridors. All of which  
14 have a public and private sector interest as  
15 part of a multi-modal transportation system.  
16 Capitalization and future maintenance costs  
17 should be considered as part of the project  
18 implementation, where appropriate, so that  
19 we can ensure some perpetual maintenance and  
20 not with examples that we saw earlier.

21           Question three: Is there a need for  
22           alternative dispute resolution mechanisms to  
23           handle railroad disputes that may arise  
24           between private crossing owners and the  
25           railroads?

1           At this time, disputes are handled  
2           through the courts in the local area which  
3           presents a challenge to the ruling party,  
4           since they can be biased towards the  
5           landowner, and litigation is always costly  
6           for both parties. Imagine the amount that  
7           you put in litigation, what that could be  
8           done if you put it actually into engineering  
9           and building safety warnings. There is  
10          merit in the development of an unbiased  
11          committee to determine the outcome of these  
12          disputes. Because railroads engage in  
13          interstate commerce, dispute resolution  
14          should be considered for handling at the  
15          federal level, perhaps by the FRA through  
16          their regions, using crossing safety  
17          managers in support of the effort.

18          I put that in for Tom.

19          Should the state or federal government  
20          assume greater responsibility for safety in

21 private crossings?

22 Well, first, nationwide federal  
23 guidelines should be considered for  
24 development of our stakeholders through  
25 AASHTO, AREMA, APTA and the National

1 Concerns or Uniform Traffic Control Devices  
2 guidelines, rather than regulation would  
3 allow all parties to work through the  
4 process incrementally and learn accordingly.

5 How many times do we adopt rules and  
6 regulations and learn to find out it really  
7 doesn't work practically.

8 So if we can work through the process  
9 of guidelines and best practices, that may  
10 be a good approach.

11 Should there be nationwide standards  
12 for warning devices or private crossings or  
13 for intersection design of new private  
14 crossings?

15 Again, nationwide federal standards  
16 should be considered for development by  
17 stakeholders again through AASHTO, AREMA,  
18 APTA, and the Conference for the Uniform  
19 Traffic Control Devices. Innovative and  
20 cost effective approaches should be

21 encouraged, researched and tested for the

22 common good.

23 Question six: How do we determine

24 when a private crossing has a public purpose

25 and is subject for public use?



1           Again, a technical working group with  
2           identified stakeholders should be considered  
3           to develop guidelines or criteria that  
4           distinguishes between a true private  
5           crossing versus one that has a public  
6           purpose. This technical work group can also  
7           contribute guidance for warning device  
8           selection and application for private  
9           crossings.

10          Seven: Should some crossings be  
11          categorized as commercial crossings rather  
12          than private crossings?

13          The categories utilized in the  
14          national crossing inventory should be  
15          reviewed to differentiate between potential  
16          traffic volumes and/or service to single  
17          versus multiple users at recreational,  
18          commercial, industrial crossings and  
19          residential. The addition of an  
20          institutional category should also be

- 21 considered that involves government  
22 facilities, universities and military.  
23 Internal plant-to-plant crossings at  
24 railroad-use only crossings should be noted.  
25 Question eight: Are there innovative

1 traffic control treatments that could  
2 improve safety at private crossings on major  
3 rail corridors, including those on which  
4 passenger service is provided?

5 The first approach to any treatment  
6 should include closure and/or alternative  
7 access. Gates and signals have a proven  
8 track record of reducing potential  
9 collisions and are not easily replaced at  
10 this time by less costly technologies  
11 without compromising reliability. North  
12 Carolina's private crossing safety  
13 initiative should be evaluated for its  
14 effectiveness, and further funding for this  
15 and similar project initiatives should be  
16 included in the next federal authorization.  
17 To date, innovative treatments have not  
18 provided either reduced cost or adequate  
19 safety improvements to justify their use for  
20 any but experimental institution in

- 21      controlled test environment.
- 22           And last, number nine: Should the
- 23      Department of Transportation request
- 24      enactment of legislation to address private
- 25      crossings? If so, what should it include?

1       There are many issues to resolve prior to  
2       making this determination. Examples include  
3       how are all of the users of the crossings  
4       going to be determined? How can all the  
5       agreements be gathered and inputted into a  
6       national database? How are private  
7       crossings where agreements cannot be found  
8       be handled? And how will all of the dirt/  
9       gravel highways be addressed regarding the  
10      approaches to private crossings? How are  
11      safety improvements to be funded? And how  
12      are national security concerns for the  
13      railroad infrastructure and commodities be  
14      addressed?

15           Those are just some of our thoughts in  
16      a group brainstorming one afternoon. I'm  
17      sure that there are many other approaches,  
18      many other ideas that people may have, but  
19      it is an important issue to us, and we  
20      continue to try to move forward on public

21 crossings, work where we can on private  
22 crossings with our railroad partners, but it  
23 is an issue that we feel cannot continue or  
24 cannot be ignored. We have to move to some  
25 kind of approach toward that.

1           And to give you some examples of  
2           approaches that we've taken, Bob Pressley is  
3           here and will be making a presentation on  
4           what we've done on three of these corridors  
5           we've mentioned, and some of the solutions  
6           that you will see, again, clear-minded  
7           approaches for a very complex process and  
8           issue. Thank you.

9           MR. PRESSLEY: As Paul said, my name  
10          is Bob Pressley. I'm the senior project  
11          manager with Gannett Fleming. We are  
12          located in Charlotte. Our firm has had the  
13          privilege of working for the rail division  
14          for several years now, and during the course  
15          of that time, we have been involved in three  
16          particular studies that either included  
17          significant numbers of private crossings or  
18          else they included a significant private  
19          crossing.

20          So I want to show you some of our

21 findings and some of the proposed solutions

22 to some of those problems that we've

23 identified.

24 We have conducted three particular

25 studies; one is the private crossing safety



1 initiative, PCSI, as it is being called,  
2 which involve the Norfolk Southern main  
3 line, the North Carolina railroad corridor  
4 from Charlotte to Raleigh. There are 46  
5 private crossings along that stretch of  
6 railroad, 140 track miles. Norfolk Southern  
7 runs about 50 freight trains a day on the  
8 main line portion of that track, and it also  
9 includes six passenger trains on a daily  
10 basis.

11 We conducted a traffic separation  
12 study on the Norfolk Southern O line, which  
13 runs from Charlotte to Mooresville. It's  
14 30 miles. It has 109 grade crossings, 42 of  
15 which are private on this 30 miles of  
16 railroad.

17 The saving grace there is that NS only  
18 operates one freight train a day on the  
19 portion of the track, and then on the  
20 northern portion they operate a freight

21 train on Tuesdays and Thursdays. So all of  
22 those grade crossings are not severely  
23 impacted by high train volume.  
24 The third section of railroad that we  
25 looked at is Norfolk Southern S line, which

1 runs from Salisbury to Asheville, 143 track  
2 miles. There are only four private  
3 crossings on this particular railroad, and  
4 Norfolk Southern operates approximately 14  
5 freight movements a day. Our findings of  
6 all -- out of these three studies, we found  
7 92 private crossings, 39 of them providing  
8 residential access, as you see here, 18 of  
9 those provided access to farms. We had 29  
10 providing industrial access, and six  
11 provided what we classified as commercial  
12 access. This is the Billy Graham radio  
13 station over in western North Carolina.

14 We could not find any written  
15 agreements recorded in the public land  
16 records for any of these 92 private  
17 crossings. Norfolk Southern was able to  
18 find 25 agreements in their archives in  
19 Atlanta for a portion of these 92 private  
20 crossings.

21           Warning devices; 39 of them had none;

22    39 of them had crossbucks.

23           We found five that had gates and locks

24    and nine had gates and flashers.

25           We found that the industrial crossings

1 posed particular and special hazards.  
2 Public Service Company of North Carolina,  
3 here in Wake County, operates a propane  
4 storage and distribution facility. They get  
5 about a hundred tractor trailer loads of  
6 propane in during the winter. Those propane  
7 tankers cross both the Norfolk Southern and  
8 the CSX.

9 Over in western North Carolina, on the  
10 S line, Ingles Markets, which is a large  
11 grocery store chain operating in six states,  
12 has a tremendous warehouse facility located  
13 on the S line served by private crossing.

14 Down in Mecklenburg County, North  
15 Carolina, equipment company is served by a  
16 private crossing. You know about equipment  
17 companies, they have low board trucks and  
18 trailers, and they supply heavy equipment.

19 Over in Guilford County, Rankin Fryar  
20 is a quarry and demolition landfill that is

21 served by a private crossing. We found that

22 several of the residential crossings serve

23 more than one residence.

24 In Orange County, Byrdsville Road

25 served 67 residential units, and I've got a

1 picture I will show you that in a few  
2 minutes.

3 Terrell's Trailer Park is another one  
4 with 12 units. Down in Rowan County on the  
5 NS main line, Ethel Lane serves 18  
6 residential units. It's a badly humped  
7 crossing. Stroup Farm Road in Mecklenburg  
8 County is a private crossing with the  
9 potential to serve 300 acres of farm land  
10 that is proposed for redevelopment as  
11 residential. And also in Mecklenburg  
12 County, we found another badly humped  
13 crossing that served seven residential  
14 units.

15 We found that providing solutions to  
16 some of these private crossings can be very  
17 expensive. The public service crossing that  
18 I mentioned here, we currently have it in  
19 the design stage for elimination, but that  
20 is going to cost about \$850,000 to do it.

21           We proposed relocating the Ingles  
22   market crossing over western North Carolina,  
23   and as you can see, over a million dollars  
24   if it is built the way we currently have it  
25   conceived.



1           The Stroup Farm Road, and I will show  
2           you a graphic on this one in a moment, the  
3           recommended solution there is to build a  
4           grade separation, and with the frontage road  
5           and everything that goes with it, we are  
6           probably looking at about a \$10 million  
7           expenditure.

8           Richard C. Roberts is a private  
9           crossing serving a mobile home over in  
10          Guilford County, and we've proposed to  
11          simply buy that one out and close the  
12          crossing. According to the tax records,  
13          that property is probably worth about  
14          \$65,000.

15          Terrell's Trailer Park, again, we  
16          recommended gates and flashers to that one,  
17          somewhere around \$150,000, and then in  
18          Mecklenburg County, we had recommended that  
19          a public crossing be upgraded and that a  
20          frontage road be developed north and south

21 of that public crossing so that we can close  
22 five private crossings. But as you can see,  
23 that would be about a million dollar  
24 expenditure.  
25 So all of these solutions are very

1 expensive.

2 This is the public service company  
3 that's just down the road here.  
4 Hillsborough Street is on the bottom of the  
5 graphic. NC-54 is on the north. We're  
6 proposing to build alternative access that  
7 will take them out to NC-54. Their existing  
8 grade crossing, as you can see, crosses both  
9 the NS and the CSX. We would build a new  
10 driveway for them that would provide them  
11 access to NC-54 and close the private grade  
12 crossing.

13 This is Ingles Market. It's over in  
14 Asheville. As you can see, the tractor  
15 trailer is on the crossing. That is very  
16 typical. They have about 3,000 movements a  
17 day over that crossing, 2,000 of which are  
18 tractor trailers. They are proposing to  
19 expand that warehousing operation and add  
20 about a thousand trips a day once all that

21 is implemented.

22 They exit out onto US 70. There's no

23 traffic signal there, so these trucks have

24 to wait until the traffic clears on US 70

25 before they can entered that flow of

1 traffic. Bill Barringer can tell you about  
2 all the times the gates are broken by these  
3 trucks when a train approaches the crossing.

4 This is an aerial view of the Ingles'  
5 warehouse. What we're proposing to do here  
6 is to relocate that crossing to the west and  
7 tie it into an existing intersection with a  
8 traffic signal so that we can get new gates  
9 and flashers, new crossing material.

10 This one, again, is probably in excess  
11 of a million dollars, if built as we show  
12 here. Their expansion plans are to the  
13 right of the screen. But they would add  
14 about a third more to what they have there  
15 today.

16 This is the Stroup Farm crossing in  
17 Mecklenburg County. It does have gates and  
18 flashers. It is a private crossing.

19 This is a Duke Power crossing that is  
20 just up the road from the Stroup Farm

21 crossing, and you can see in this graphic,  
22 there are four private crossings just bang,  
23 bang, bang, bang. We have proposed to build  
24 a grade separation to the far right of the  
25 screen where the pump station road is. We

1 would build a new bridge over the railroad,  
2 and then the frontage road on the south side  
3 of the track or east side of the track would  
4 serve all of that property, two large farms  
5 and the deep power track. All of that is  
6 being planned for a residential development  
7 at this time. So if that grade separation  
8 can be built then those four private  
9 crossings can be eliminated.

10 This is Byrdsville Road over in Orange  
11 County, serving right now 67 residential  
12 units. You have a mixture of mobile homes  
13 and single-family residences in there.  
14 There are several vacant lots currently. So  
15 that development has potential to serve over  
16 a hundred homes. The gates and flashers  
17 were used salvaged equipment, which NCDOT  
18 and Norfolk Southern were able to install  
19 several years ago that was probably from the  
20 FRA grant as well?

21 MR. WORLEY: Yes, that's correct.

22 MR. PRESSLEY: This one does have

23 gates and flashers. Current traffic logged

24 is 311 a day on this particular crossing.

25 This is Ethel Lane and Jukebox Road



1 down in Rowan County. Ethel Lane which is  
2 the upper one of the two crossings shown  
3 here is badly humped. It has had a series  
4 of accidents over the years. There are 18  
5 homes located in this area currently with  
6 several tracts of undeveloped land that  
7 could be developed residential in the  
8 future.

9 We have proposed here a frontage road  
10 that would be built on the east side of the  
11 railroad that would take all of this traffic  
12 out to an existing public roadway, and then  
13 they can cross the railroad where there are  
14 gates and flashers currently located.

15 This project is in the right-of-way  
16 stage at this point. The NCDOT Highway  
17 Division is attempting to negotiate a  
18 donation of all the right-of-way, and if  
19 that is accomplished, then the rail division  
20 will provide the funding to actually build

21 the road, and it will become a state  
22 maintained road, which would be of  
23 significant benefit to all of these  
24 properties.  
25 This gives you a little closer view.

1       What we have tried to do is lay this road  
2       out in such a way that the property owners  
3       can see the advantage of possibly  
4       subdividing their property in the future for  
5       additional lots. So hopefully that will  
6       help sell the project to those that may be  
7       reluctant to participate.

8             This is Long Beverage also here in  
9       Mecklenburg County, another industrial  
10      crossing. There is a building, a beverage  
11      distribution warehouse. Again, this is one  
12      of those the state and Norfolk Southern were  
13      able to work out a deal where salvaged  
14      equipment was used to provide the gates and  
15      flashers at this particular crossing.

16            This is Bailey Road in north  
17      Mecklenburg County. It's an existing public  
18      crossing, but there are private crossings  
19      both north and south of this particular  
20      crossing. We propose to improve the public

21 crossing, then build a frontage road that  
22 would allow those five private crossings to  
23 be closed. Again, this is about a million  
24 dollars worth of investment.  
25 This is the Roberts property. As you

1 can see, there's a nice gate there, but when  
2 we were there, it was obvious that that gate  
3 had not been used in several years. But  
4 there is a single mobile home occupying this  
5 property off the bottom of the slide there.  
6 Again, we recommended this property simply  
7 be purchased, and Duke University, the Duke  
8 forest surrounds all of this property. So  
9 it would be a logical purchase, and then the  
10 state could sell that property to the  
11 university and recoup their investment or  
12 whoever should wind up purchasing that  
13 particular piece of property.

14 Our conclusions, if there are  
15 agreements, they are between the railroad  
16 and the private owner. There is uncertainty  
17 about state and federal jurisdiction in all  
18 of this. We found that a lot of these  
19 crossings can be dangerous. There are  
20 industrial hazards certainly imposed by many

21 of them. A lot of them have poor sight  
22 distance, and if any protection, it's not  
23 very much or any warning devices. And we  
24 expect that a lot of these will experience  
25 increased traffic as time goes by.

1           The solution to many of these is  
2           expensive, as we've demonstrated. We're  
3           looking at grade separations and property  
4           acquisition frontage roads and things of  
5           that nature. A cost benefit analysis is  
6           difficult on a lot of them. The FRA grade  
7           deck model is not set up for private  
8           crossings. Then, of course, there are legal  
9           implications involved in all of this.

10          Finally, we think there probably is  
11          additional study needed, some type of a cost  
12          benefit model probably should be developed  
13          to deal with this issue.

14          With that, I will turn it back over to  
15          Grady and to answer any questions if those  
16          are coming now or later.

17          MR. COTHEN: Any questions for Bob?

18          Feel free. Thank you very much, sir.

19          Appreciate the presentation.

20          I think at this point, if you don't

21 mind, we will take a break of about ten  
22 minutes come back about quarter to. Can I  
23 ask anyone who would like to make a  
24 presentation from the podium or from the  
25 floor mic, just to step up and let us know



1 so that we can put you in order of sign up  
2 and hear from some folks who would like to  
3 make opening statements, and then after that  
4 we will proceed to the topical discussion.

5 Thanks very much. Let's take about ten.

6 (Off the record at 10:35 a.m.)

7 (On the record at 10:53 a.m.)

8 MR. COTHEN: Okay, let's presume, if  
9 we may.

10 What we thought we would do in the  
11 order that we had set up was an opportunity  
12 for anyone who wanted to at this point to  
13 address from their perspective private  
14 crossing safety issues in general, including  
15 all the topics that were presented in the  
16 initial notice for this activity that Miriam  
17 called attention to in her presentation.

18 And that gives us a chance,  
19 potentially, to get a regional perspective  
20 on these issues that may differ from the

21 perspective that we might glean elsewhere.

22 And so we would invite as many as are

23 able to speak as formally or informally as

24 you wish about those issues in this segment.

25 And then what we found in doing the

1 initial meeting in Fort Snelling is we  
2 covered a wide swap of issues and got a good  
3 initial introduction to the topic, but it  
4 didn't really give us the framework to begin  
5 to dig down into some of the issue areas  
6 more deeply.

7 So what we hope to do in this meeting  
8 and the two forthcoming meetings was to when  
9 we got into the discussion phase beyond the  
10 initial remarks from anybody who wanted to  
11 address a broad range of issues, we thought  
12 we would try to get a bit of a topical  
13 emphasis into the discussion.

14 So for this meeting, our hope was to  
15 talk as much as we could about the  
16 engineering issues. We thought it was a  
17 particularly good forum to do that, given  
18 that North Carolina DOT has been a leader in  
19 innovation with respect to engineering and  
20 highway rail crossings.

21           At our next meeting, which is in San  
22           Francisco, is that right?  
23           MS. CARROLL: Yes.  
24           MR. COTHEN: We would talk about  
25           responsibility as much as we possibly could

1 in terms of whose got an investment in this  
2 issue and who needs to have an investment in  
3 this issue. And that would include the  
4 notion of oversight from the federal and  
5 state level as well.

6 So private sector responsibility, when  
7 I say private sector, that really has to do  
8 with the railroads, whether they are public  
9 and privately operated, and if they are  
10 crossing holders, whether or not in many  
11 cases they are actually publication  
12 agencies. But other than transportation  
13 agencies in other cases, they are private  
14 landowners and folks who just over time have  
15 acquired the right to use that crossing.

16 So, and then finally, we will get New  
17 Orleans, we thought we would talk a little  
18 bit about data and, you know, one of the  
19 things that Bob said in his presentation is  
20 that doing a cost benefit on some of these

21 projects is a bit of a puzzle. One of the  
22 things that potentially FRA might do is do  
23 something like offer a better tool for  
24 private crossing prioritization, and that  
25 might be enhancement of grade or some other

1 form of assistance, but we need to also talk  
2 about the availability of data, and that  
3 would include inventory and also the actual  
4 data that we collect.

5 Before I forget to raise it, one of  
6 the things that we would welcome as a part  
7 of the filings in this document would be any  
8 suggestions that you have to make about how  
9 we can enrich the data elements on our what  
10 we call forum 618057, which is the accident/  
11 incident report for highway railroad  
12 crossing, both with respect to private and  
13 public crossings.

14 So what can we do to have better  
15 information about the crossings themselves,  
16 that's the inventory piece of the problem,  
17 and then the accident/incident information  
18 that we are gathering, to what extent can we  
19 improve the data there? And then what tools  
20 can we provide that support better risk

- 21 assessment, better prioritization and  
22 improve the approaches to the cost analysis  
23 for publicly funded projects?  
24 And then we'll probably do one more  
25 stop on this road show, and we haven't



1 scheduled this yet because of budgetary  
2 concerns will lead into the new fiscal year,  
3 but it will more likely be in New York  
4 State, and we hope to have our administrator  
5 present for that meeting, and there we would  
6 hope to have a bit of summations across the  
7 regional and issue bases that we've touched  
8 in the prior meetings.

9 So we're not limited to any topic area  
10 here today, but we would hope, first of all,  
11 to get some regional focus on things as they  
12 are presented in this area, generally south  
13 of the Atlantic states and one more crack at  
14 the deep south, New Orleans and those coming  
15 over from the south, and then this  
16 afternoon, or as soon as we can get to it,  
17 as we do get to it, a discussion of  
18 engineering issues at private crossings to  
19 include the whole nine yards, surface, sight  
20 distances, signage, automated warnings,

21 innovative treatments and that sort of

22 thing.

23 I notice that we do have signed up

24 from the West Virginia Public Service

25 Commission in attendance today Mr. John

1 Perry, John is in the back. Is there any  
2 way to entice you, John, to make some  
3 initial remarks about the public service  
4 commission's interest in the subject and any  
5 observations that you might have out of your  
6 experience.

7 MR. PERRY: Yes.

8 MR. COTHEN: You are welcome to come  
9 to the podium or floor mic, whatever makes  
10 you more comfortable.

11 MR. PERRY: I'm John Perry, and I  
12 represent West Virginia Public Service  
13 Commission, where our railroad service  
14 station we are under the Division of  
15 Transportation.

16 I work with the enforcement section.  
17 I'm signal train control inspector. I'm  
18 also state coordinator for operations and  
19 lifesaver, so both jobs have an interest in  
20 crossing safety, and in particular, the

21 private crossings, because of the great  
22 number of crossings that we have even in our  
23 small state, we have a large number of  
24 crossings, and a large number of incidents  
25 that occur within our state have been at

1 private crossings, whether they be of the  
2 commercial grade or a residential area.

3 So basically we're here to listen, see  
4 what you folks have to say, see what  
5 basically is going on with any rule making  
6 that might be down the road somewhere that  
7 we might be, you know, we would certainly  
8 have an interest in that. Thank you.

9 MR. COTHEN: Thank you, John.  
10 Greetings back to Mr. Baldwin, if you will.

11 Are there others from state or local  
12 level organizations, public agencies with  
13 interests or responsibility for this area  
14 that we could encourage to help us set the  
15 stage for the general discussion?

16 Okay. I would just open the floor  
17 generally for opening statements from  
18 anybody who wants to talk. I see we have  
19 representatives here from labor, from the  
20 railroads, at least one identified private

21 citizen and others. We would be delighted  
22 to hear from you as to why you are here and  
23 what you are interested in, and what you can  
24 tell us about the subject that will help us  
25 build a set of recommendations for public

1 policy.

2 Yes, ma'am, come to the podium.

3 MS. MEDLIN: Tina Medlin, T-I-N-A,  
4 M-E-D-L-I-N, and I basically came today to  
5 educate myself, because I am currently  
6 affected by improvements in the railroad.

7 I'm also probably in a unique position  
8 in that I did witness a train/car collision  
9 in front of my property. Well, right down  
10 from my property about 18 years ago, and it  
11 was not a pretty sight.

12 I have property that borders a  
13 railroad that I've had for 20 some-odd  
14 years, little house in a little historic  
15 community in Harnett County called Calibian  
16 Springs.

17 And there's a train that goes from  
18 Raleigh to Fayetteville in the morning, it's  
19 great, it goes through about 7:30. If you  
20 hear the whistle, you know you have hit the

21 snooze button one time too many, and then it

22 comes back in the afternoon.

23 Unfortunately, for me, when I

24 purchased the property, it was my first

25 home, and I didn't know a lot about real



1 estate, and I relied on my closing attorney  
2 to adequately represent me.

3 And so I purchased this property, and  
4 my access is a prescriptive easement  
5 contained within the railroad right-of-way.  
6 The house had been there since the turn of  
7 the century, that's the 1900s, not 2000, but  
8 several years after I purchased it, I tried  
9 to sell it, and then I found that I had no  
10 recorded legal access. But the attorney  
11 said my prescriptive easement was good  
12 enough to allow me to continue to have  
13 access, even though it was unrecorded.

14 In the last two years, the hundred  
15 acres to the north of me was purchased by a  
16 developer and an industrial park is going  
17 in. Access to that particular property had  
18 been along a dirt road, a private crossing,  
19 as I have learned today, and so that is -- I  
20 suppose, that's going to be the access to

21 the industrial park that's going in. The  
22 community is very concerned about it,  
23 because of, you know, extra traffic along  
24 the railroad lines. But I'm also a real  
25 estate agent, and you can't stop progress.

1 But I am concerned about safety issues in  
2 particular, because my house, the front  
3 corner of my house is 37 feet from the edge  
4 of the railroad right-of-way. The new  
5 sighting that is going in from the  
6 industrial park will be starting directly in  
7 front of my home. So I'm in a bit of a  
8 pickle.

9 And the reason I came today was I  
10 heard on WRAL that, you know, there was  
11 going to be a meeting, and I thought well,  
12 I'll come and at least educate myself about  
13 what are the laws. Maybe I can learn  
14 something that can help get me out of this  
15 pickle.

16 I'm a little concerned because the  
17 industrial park that is going in next to me  
18 has got a sighting, so there will actually  
19 be a crossing across the railroad track and  
20 the sighting, and it's going to be a reload

21 center, where they are taking railroad cars  
22 and off loading and then loading them onto  
23 other trains, loading them onto other 18  
24 wheelers, and there will also be some  
25 storage facilities there too.

1           There have been some discussions with  
2           the developer about purchasing my property,  
3           and he was more than happy to purchase it at  
4           tax value. But I don't know anybody who  
5           would sell their house for tax value, and if  
6           you would, you need to see me, because that  
7           would be a listing I could sell very  
8           quickly.

9           So in this little historic community,  
10          we have some concerns. And I can't speak  
11          for everyone else out there, but I really  
12          wanted to understand more about, you know,  
13          what the rules and regulations were for the  
14          crossings, how that could possibly, you  
15          know, impact me, in between, you know, one  
16          that's a public right-of-way crossing and  
17          then of course the private. And I'm kind of  
18          in between the two and how that would affect  
19          me and what the laws and the regulations  
20          are, and you can talk to six different

21 attorneys and get six different opinions as  
22 to what my particular situation is. I'm  
23 just kind of waiting to see what's going to  
24 happen. In the meantime, my access has been  
25 cut off to my house, and my water lines have

1       been dug up, and, of course, I can sue if I  
2       can come up with, you know, enough money to  
3       hire an attorney to sue a wealthy developer  
4       that told me he gets what he wants.

5             So that's why I'm here. I wasn't here  
6       because I was in the wrong room. I really  
7       just wanted to come in and see if I could  
8       educate myself a little bit better about,  
9       you know, what's going on, what the plans  
10      are, understanding the differences between,  
11      you know, private crossing and industrial  
12      crossing and a commercial crossing and was  
13      hoping I might hear a little bit about  
14      sightings and how those are okayed, approved  
15      and, you know, by what entity and things  
16      like that. And so that's why I'm here.

17            MR. COTHEN: Thank you very much. And  
18      your appearance is very useful for us, you  
19      know, in terms of our understanding of this  
20      use. Just based upon what I think I heard,

21 it sounds like you've got a developer of an  
22 industrial park that's going to benefit  
23 significantly from access over the crossing,  
24 and a railroad that's going to benefit from  
25 increased business. And you are stuck in



1       between. If you want an opinion, by the  
2       way, I will give it to you free of charge at  
3       the break, and it will be worth what you pay  
4       for it, particularly since I'm not admitted  
5       in North Carolina. But it is a very  
6       difficult, complex of issues viewed from a  
7       national perspective. So I can only imagine  
8       what difficulty you may face under those  
9       complicated circumstances.

10       Generally, I think it's fair to say,  
11       and we've got a lot of railroaders in the  
12       room, correct me if I'm wrong on the  
13       railroad right-of-way, generally railroaders  
14       have significant latitude to build out their  
15       facilities to meet their service needs.  
16       There's a general supervision of that by the  
17       transportation board, which succeeded the  
18       interstate commerce commission's  
19       responsibility for this to be normally,  
20       unless a line being extended will not get

21 into the issue of augmenting existing  
22 facilities, such as building a sighting,  
23 industrial sighting. Normally, they will  
24 view that as an activity that is within the  
25 purview of the railroad. Obviously, when a

1 second main or new sighting goes in, whether  
2 it's industrial sighting or whether it's a  
3 passing sighting, when the road is used to  
4 expedite movement of its trains, there's an  
5 impact on the private crossing, the safety  
6 of persons using private crossings as well  
7 as other impacts in the community.

8 The other side of that is if the  
9 railroads didn't adequately invest in  
10 facilities to meet service needs, we would  
11 face more trucks on the highway where  
12 congestion is announced by the secretary of  
13 transportation as the central issue that we  
14 face in terms of meeting the needs of the  
15 economy, in terms of meeting our needs of  
16 citizens in terms of mobility.

17 We are all squeezed by these issues,  
18 no one certainly more than yourself. So  
19 thank you very much for taking that  
20 opportunity to bring that example to light.

21           Are there others who would be willing  
22           to step up to the plate and offer some  
23           perspectives, issues, questions that we  
24           should keep into consideration as we  
25           consider these issues going forward?

1           We will get Danny Gilbert go and  
2           Leslie, come on up and when Danny is  
3           through, then you go next, okay?

4           MR. GILBERT: Danny Gilbert, Rail  
5           Safety Consultants, spent 36 years with the  
6           railroad. And as most of you know, whenever  
7           you have a new meeting, you don't have a new  
8           meeting, you have a rehashing of an old  
9           meeting. And I guess my question would be  
10          in 1993, this same type of meeting was held,  
11          and what I believe some good, hard data was  
12          in a draft preliminary guideline for private  
13          crossings.

14          Railroads, I believe, have done a  
15          great job as far as trying to close private  
16          crossings, consolidate the private  
17          crossings, developing signage to help  
18          facilitate safety issues. But it's getting  
19          to the point where it's more difficult to  
20          consolidate closed crossings and work on

21      some of these private crossings. And the  
22      document although may not be the best  
23      document in the world, it has a lot of good  
24      guidance that we could start with. It talks  
25      about the holder responsibility. It talks

1 about warning devices. It talks about  
2 closures.

3 One of the biggest issues is who is  
4 the user? Does the user have a legal right  
5 to use that crossing? And in this document,  
6 it says: If you can't find anybody with  
7 responsibility that would accept the  
8 responsibility of the crossing, it should be  
9 closed.

10 So I guess my question is why would we  
11 not take and build on this document instead  
12 of start from scratch? I believe there's  
13 some good language in here that can help the  
14 railroads, help the states as far as  
15 closure, as far as responsibility for a  
16 crossing that you don't have any idea who  
17 uses it.

18 So this is a document that I've had  
19 for a number of years, and I've talked to a  
20 lot of people, and no one has seen this

21 document in years.

22 So my suggestion is start with what

23 you've got, and then let's build on it from

24 there.

25 MR. COTHEN: Thank you, Danny. Our



1 corporate memory here, some of us at FRA  
2 participated in the development of that  
3 document, and then administrator Gil  
4 Carmichael wanted to do something for  
5 private crossing safety, and he said you all  
6 get on it, and so we did and we circulated  
7 the document. We held a session in St.  
8 Louis to review the guidelines, and we can  
9 certainly arrange to have a copy of the  
10 draft guidelines placed in the docket of  
11 this proceeding.

12 The reaction of the railroads in  
13 general at that point was go away. At one  
14 point, we were told you don't have any right  
15 to issue guidelines. And at the same time,  
16 at the same time, the discussion that we had  
17 in St. Louis was excellent. The railroad  
18 officers and attorneys who were working on  
19 the private crossing issues at that time  
20 quite aggressively, and have since, by the

21 way, came to the meeting and talked about  
22 what they were trying to do, some of the  
23 issues that they face and some of the things  
24 that they managed to accomplish.  
25 And so I thought it was a very

1 productive dialogue, notwithstanding the  
2 official pronounced position of the  
3 railroads as a community nationally that FRA  
4 didn't really need to be in the game.

5 And so, you know, we tucked our tails  
6 between our legs and we went away for a  
7 while, promising to return to the issue when  
8 we had the opportunity in terms of adequate  
9 resources.

10 Since that time, we've talked about a  
11 number of highway rail crossings, just so  
12 you know, of late hoping it would be put to  
13 bed as much as we possibly could, the train  
14 line issue. Although it may never die.

15 And, of course, many people, including  
16 Ms. Spurlock, who will have a chance on the  
17 floor next, are spending a lot of time in  
18 communities as well as others in the room  
19 working on quiet zones under that  
20 regulation.

21           So now it's the season again, a little  
22           more than a decade later, to return to the  
23           topic, and rather than assuming we had the  
24           delivered wisdom at that time when we had  
25           only draft guidelines in our hands, we

1 thought we would start from scratch and see  
2 if rather than threatening people with draft  
3 guidelines, which is how we started the last  
4 one, we could kind of build it from the  
5 ground up and understand where we are today,  
6 how the situation may have changed and get a  
7 perspective more widely of communities,  
8 states, railroads, their employees and  
9 others who might have an interest in this  
10 matter.

11 So that's kind of the issues and  
12 approaches and topics. They are certainly  
13 not forgotten. And we may use it before  
14 it's over, use it as a basis for drafting,  
15 but I don't know about that. We will see  
16 when we get to the end of this road.

17 The end of the road, by the way, we  
18 hope to have, you know, a report on these  
19 activities, the Volpe Center will help us  
20 assemble and hopefully that will be a useful

21 and very public document, which we will have  
22 available on our web site that everybody can  
23 use as a reference going forward, regardless  
24 of what path we choose to take collectively.  
25 Thanks, Danny. I'm glad somebody

1 remembers that we took a shot at it once  
2 before.

3 Leslie Spurlock is with us from FRA  
4 Region 3, headquartered in Atlanta, and  
5 she's willing to help us fill the silence,  
6 Leslie.

7 MS. SPURLOCK: So now that I've been  
8 introduced, do I say my name again?

9 One thing that I've thought of while  
10 you have been talking about the private  
11 crossings is you get a number 94,000,  
12 95,000, even as we speak, there's probably  
13 ten more that have been put in. And I get a  
14 lot of complaints in my office about blocked  
15 crossings. Then when I call and follow up  
16 with the railroads, come to find out that  
17 was a corn field or a hundred acres of  
18 forest that someone has sold and cleared and  
19 there's one, two, three trailer homes on it  
20 now. Usually, you know, a lot of them are

21 family related. Well, suddenly you've  
22 created a surprise problem for the  
23 railroads. Not only is that an illegal  
24 private crossing, but they now have to take  
25 into consideration if somebody is there,



1 where they were stopping to pick up supplies  
2 or trees or something before, now they've  
3 got complaints about them, and it's just  
4 something if you could take into  
5 consideration in the future, that if any  
6 land is sold, what are you going to do that  
7 these new folks know about crossings? Can  
8 it be prohibited? Because part of me really  
9 feels for the railroads, that these small  
10 plots of land are popping up, and they've  
11 suddenly got a new crossing, that the  
12 feeling is with the homeowner, the  
13 landowner, and the big bad railroad, and  
14 that's not really the situation.

15 So please consider a way that maybe  
16 new crossings can be controlled and not just  
17 pop up overnight that nobody knew about  
18 them.

19 MR. COTHEN: Okay. Private rail  
20 crossings intersection between a roadway and

21 highway of interstate commerce, to use the  
22 term that's being used, and Leslie is  
23 calling to attention the plan. Thank you  
24 very much.  
25 Yes, sir, Jason field.

1           MR. FIELD: My name is Jason Field.  
2           I'm with NCDOT's rail division. I'd like to  
3           expand a little bit on what she said, that  
4           is, an issue that we have a great deal of  
5           problem with in the State of North Carolina,  
6           where you have private crossings that a  
7           developer purchases, and two or three years  
8           down the road you end up having an 800  
9           homes, banks, all kinds of other development  
10          that is based on a private crossing, and  
11          we're running into an issue with that in  
12          this state in trying to figure out how to  
13          address that.

14          So, you know, some kind of guideline  
15          in regards to private crossings and being  
16          shifted to public usage and things certainly  
17          should be something considered in anything  
18          that comes out.

19          MR. COTHEN: Jason, is there -- do you  
20          have any kind of charter document at NCDOT

21 in terms of what approach to take to  
22 adoption of private crossings, putting them  
23 in the public system?  
24 MR. FIELD: Well, we have standard  
25 procedures we follow for any roadway. If

1 it's built to DOT standards, the private  
2 owners can pursue with the state to have it  
3 brought onto the state system, or the  
4 municipal system if it's in that area. But  
5 the problem we run into in a lot of cases,  
6 the rail division is not part of those  
7 discussions early on, and you end up having  
8 a problem before you are able to do anything  
9 about it.

10 And then in addition to that, due to  
11 political pressures, a lot of times we are  
12 in a place where the developers are not held  
13 accountable for bringing in the significant  
14 development that's adding to the traffic  
15 issues, as well as railroad handling issues  
16 and grade crossing safety, and then  
17 everybody looks to us to go fix this  
18 problem. And it's a tremendous problem,  
19 and, you know, in a lot of cases we find the  
20 private crossings are not built to any kind

21 of standard.

22 I had one location where when they

23 were putting traffic loops down, the foot

24 pedestals that they put down for the traffic

25 loops were punched through the pavement. We

1 ended up ripping everything up, which got  
2 within the water lines, which were an inch  
3 below that pavement for the bank and a few  
4 other facilities, and end up having to fix  
5 that, and there's no general guideline from  
6 the private crossing standpoint where things  
7 had to be built a certain way. So they do  
8 what gets them by, and then when it becomes  
9 a public usage crossing, you have  
10 substandard infrastructure in place that  
11 everybody looks to the state to fix, you  
12 know, which in turn the cost benefit in some  
13 of these cases that was very good becomes  
14 less so.

15 You know, there are processes to bring  
16 these roads onto the system as far as the  
17 developer who is creating the problem,  
18 basically in developing these properties and  
19 hanging the price tag of fixing the  
20 infrastructure on the state once they leave.

21 MR. COTHEN: Thank you very much.

22 MR. WORLEY: I have a comment. One of

23 the tasks that I see that perhaps could be

24 done between, you know, one of the things

25 that we talked about years ago is with the



1 grade crossings, is that local and county  
2 engineers, municipal and county engineering  
3 don't have a very good understanding of  
4 grade crossings. So we went through this  
5 process of the technical work group, the ITE  
6 document, which is pretty helpful for folks.  
7 Perhaps one of the things we are able to  
8 look at is land use planners in counties and  
9 towns coming up with some kind of document  
10 or some kind of guide of working with  
11 American Planning Association or even the  
12 University of North Carolina's planning  
13 department type, those type of folks to come  
14 up with a document that gives information  
15 about the railroad, about crossings,  
16 compiles some laws, regulations, concerns  
17 and so on and make that a document that's  
18 available to local land use planners,  
19 because I know there is a flat effort  
20 towards smart growth and being better

21 regulating and controlling development, and  
22 that may be a good tool that can be used by  
23 those local planners with information that  
24 would be very good for them. That's just a  
25 thought there.

1           I don't think they are really aware of  
2           what they are dealing with with the  
3           railroads. I know in talking about with  
4           some of the city planners in Greensboro,  
5           they were trying to do a lot of in-field  
6           development. And once they do that, they  
7           realize they have a crossing nearby and  
8           people go back to the city want to know why  
9           it's up.

10          One of the things they talk about is  
11          perhaps they go ahead and assess a fee or  
12          look at some of this new development and  
13          have that considered in some of costs of  
14          redeveloping these areas, what crosses or  
15          devices, so there are a number of factors  
16          that planners are more agreeable to assist  
17          with these days and consider when they are  
18          looking at planning.

19          MR. COTHEN: Thanks, Paul. It sounds  
20          like you have an action item in this

21 activity for sure among others.  
22 Maybe we can jump start that by making  
23 some outreach at the national level at the  
24 American Planning Association or any other  
25 groups that might be good contacts.

1 Others that we can call on to speak  
2 generally about issues that have come to  
3 their attention?

4 Now, I've got to just be stern with  
5 you at this point, okay? I've got to be  
6 stern with you. We had railroads at the  
7 first meeting, normally we have a table, you  
8 know, it will be in rectangular sort of set  
9 up, and everybody comes to the table and we  
10 have the advisory committee, we have a  
11 series of working groups, where we have  
12 labor, management, suppliers, states and  
13 past organizations and others participating  
14 in standards development, and everybody  
15 comes to the table and everybody has a say.

16 Now, this is the second of our  
17 outreach sessions, and when we were in Fort  
18 Snelling, we had some very knowledgeable  
19 railroaders present. Labor, for example,  
20 talked. We had one introductory paper from

21 the Association of American Railroads, which  
22 was, I understand, a good deal shorter than  
23 the original draft. And then we had some  
24 folks from the rail industry who would  
25 answer questions very adeptly, factual

1 questions, but from a policy standpoint, we  
2 really had a dearth of substantive input  
3 from the major railroads.

4 So Cliff Ebie, who is our deputy  
5 administrator at the railroad safety  
6 advisory committee meeting, made a point to  
7 say you got to be at the table. You need to  
8 be at the table. And, of course, we are not  
9 in a rectangular setup here, so what that  
10 means you need to be on the podium or the  
11 floor mic at this stage.

12 We have some very knowledgeable  
13 railroad people here from labor and  
14 management, and they work with these issues  
15 all the time. And we we'd love to hear from  
16 you. If we don't, we're going to do  
17 whatever the heck we want to do.

18 MR. CRUZ: I'd like to talk about  
19 inventory issues.

20 MR. COTHEN: Good. He is going to

21 bail us out.

22 MR. CRUZ: My name is Ric Cruz. I

23 worked with inventory as project engineer

24 data manager, C-R-U-Z.

25 One of the issues that we'll have to



1 deal with as far as acquiring the data  
2 that's necessary to do all of our studies  
3 and modeling is actually collecting the  
4 data.

5 Private crossings in North Carolina,  
6 particularly there's probably about 4 or  
7 5,000 we are talking about doing, right now  
8 the general statutes do not allow us to go  
9 on those properties. And as far as the  
10 general statutes, do not allow us to spend  
11 money going in and inventorying those  
12 particular crosses. We do have access  
13 through the general statutes to go on there  
14 for a particular reason, if we have to go on  
15 there and find information.

16 However, the biggest problem we have  
17 is that current data that we have in our  
18 database system is very, very old. Some of  
19 it dated back to 1974. Some of it is even  
20 nonexistent. Most of the data as far as the

21       railroads are concerned, as far as railroad  
22       traffic and private crossings is  
23       nonexistent. We don't know how many train  
24       moves or movements we have there or  
25       capacities on those particular rail lines at

1 all.

2 If we are tasked to acquire that data,  
3 it's very arduous undertaking as far as  
4 getting that information. It's something we  
5 have to consider. It's going to take time.  
6 It's going to take money. And right now  
7 there is no good data on that. It's  
8 something we will have to think about.

9 MR. COTHEN: One of the things that  
10 intrigued me is a work-around, Ric. We're  
11 getting to the point where we think we can  
12 place most of these crossings on a GIS  
13 database. Some years back it was 85 percent  
14 we could successfully put it in place. I  
15 keep waiting for somebody to say we are at  
16 98 percent, but nobody said that yet. But a  
17 great number of these crossings with the  
18 information in the inventory has seemed to  
19 be put on a GIS platform.

20 MR. CRUZ: A lot of the information

21 that we have, the railroad crossings from  
22 FOA, we have actually checked those, and  
23 found there's a lot of error built into  
24 them, and they are not very accurate.  
25 We have done a lot of GPS, GIS work in

1 North Carolina public crossings, and in so  
2 doing, we have been able to get -- update  
3 our map systems to the point where they are  
4 fairly accurate. Every chance we get while  
5 we are out there on the rail line, we also  
6 try to do the private crossings, locate them  
7 specifically on the maps. So we happen to  
8 do that.

9 And what we can have readily, been  
10 getting to these crossings closest to the  
11 roads that are operating parallel to the  
12 railroad, then we try to get that  
13 information also.

14 But for the most part, the biggest  
15 problem we have with private crossings is  
16 they are not numbered, and it's hard to find  
17 which one we are dealing with when we are  
18 out there.

19 And then there's a lot of crossings  
20 out there that are not on our database at

21 all and trying to resolve those issues with  
22 the railroad, sometimes it's a problem that  
23 we have, and a lot of times the railroads  
24 aren't too sure about the information either  
25 when they go back and forth as far as who

1 owns that crossing, and most times some of  
2 these crossings they don't even know they  
3 are out there.

4 So as far as that's concerned, the GIS  
5 and GPS information that we have is really  
6 pretty good on the public crossings, and as  
7 far as our mapping is concerned, some areas  
8 that we have it's been done in the past, but  
9 they are not very accurate, they are a  
10 hundred meters off so.

11 MR. COTHEN: With information on your  
12 database on the rail traffic public  
13 crossings, being that they tend to be  
14 interspersed, do you have the ability to  
15 convey, from an eyeball standpoint, the  
16 amount of traffic to which on a particular  
17 line the private crossings are exposed?

18 MR. CRUZ: Rail traffic or?

19 MR. COTHEN: Rail traffic.

20 MR. CRUZ: That's something else we

21 could probably do that, and there's ways we  
22 can do that electronically with the data.  
23 But it all is dependent on the accuracy of  
24 the train movements and counts that we get  
25 from the roadways, and that is where unless



1 we have a line that's been studied, then we  
2 can rely on information from those.

3 A lot of the other lines all through  
4 the state, there's not real accurate data on  
5 train movements. We have been working with  
6 the class one railroads on that, and  
7 hopefully this fall we will be able to start  
8 sharing more of that type of data.

9 But as of right now, we don't have --  
10 I don't have confidence in the data that we  
11 have to be able to assign numbers on those  
12 private crossings, just based on the data  
13 that we have on record.

14 MR. COTHEN: Any of this discussion  
15 with regard to these issues, I guess, you  
16 are off the hook. Thank you very much.

17 MR. CRUZ: Thank you.

18 MR. COTHEN: Okay, others? Again,  
19 it's wide open to anything related to safety  
20 at private highway rail crossings, or for

21       that matter the impacts we have on  
22       communities. When we try to affect safety  
23       and public highway rail crossings, we need  
24       to know both sides of it.  
25       Okay. What I would suggest is -- I'm

1       sorry.

2           MR. BRYANT: Can I speak?

3           MR. COTHEN: Please.

4           MR. BRYANT: I notice you've got some

5       representatives from the railroad coming. I

6       was wondering if they were going to speak

7       today? I too was sitting on the --

8           MR. COTHEN: Can you state your name

9       for the record?

10          MR. BRYANT: My name is John Bryant.

11       I'm not with the railroad company.

12          I was standing on the Pre-Core today

13       at the YMCA, and I learned about this

14       meeting on WRAL news, just like you did.

15          But I think one of the things as a

16       member of the public that I'd like to see

17       happen is there's not any national standard

18       for, I don't think, construction and

19       maintenance of grade crossings, either

20       public or private. I'm a trial lawyer. I

21      have a client that's involved in a case that  
22      is a maintenance issue from a crossing. And  
23      according to the folks that we have talked  
24      to during the course of that case, there's  
25      not any way to determine how grade crossings

1 are supposed to be maintained for the safety  
2 of the vehicular public for the life of the  
3 crossing. The only things that have been  
4 handed down to this particular defendant,  
5 the only things that have been handed down  
6 over the years in the case that I'm involved  
7 with, because I think it's important that  
8 you all know what goes on, I will give you  
9 just a little bit of factual background of  
10 what happened there so that you can have  
11 some importance to place not only on the  
12 collision between the train and the vehicle,  
13 but also because of the safety in passing  
14 over the tracks.

15 In my case, the theory of the  
16 plaintiff is that the tracks became decayed  
17 over a number of years, because no  
18 maintenance was performed on them. And the  
19 railroad admitted that for 20 years, nothing  
20 was done to maintain or check over these

21 particular tracks.

22 My client was holding a screwdriver

23 when they passed over this rail. It got

24 stuck on the rail and deployed the air bag,

25 which shoved a screwdriver into his

1       cheekbone through his sinus cavity up into  
2       the orbit of his eye.

3             So it's not always, even though the --  
4       most of what you are going to see is going  
5       to be the collision between the train and  
6       the car, I know those are really  
7       catastrophic events. But I think that  
8       because of the fact that the railroad  
9       companies are not left with any guidance  
10      about how they got to maintain those  
11      particular crossings, it's only handed down  
12      to employee, to employee, to employee over  
13      the years.

14            Some of the evidence that we heard in  
15      the case was that they were supposed to  
16      maintain the crossing the way that it was  
17      put in, and try to keep it that way for the  
18      life of it, which is a good and noble thing  
19      to do, but I think if you have in the  
20      crossings, either private or public, if you

21 have the rail and the crossing timbers that  
22 are on either side of the rail, which are  
23 eight inches by eight inches when they are  
24 wooden, I have learned. I didn't know  
25 anything about railroad crossings a couple



1 of years ago. And they are supposed to be  
2 flushed with the rail to keep cars that  
3 might be lower-riding cars or low boards  
4 like you were talking about earlier, from  
5 getting hung up on those things, and if that  
6 is something that is a great geometric  
7 configuration, I don't think that the rails  
8 here in North Carolina are any different of  
9 the rails that exist in the state of Wyoming  
10 or any other place in the country.

11 That's why I think it begs for a  
12 national standard, so that if the rail  
13 companies have a lot of tracks to keep up  
14 with and have a lot they have to take care  
15 of the safety -- according to the North  
16 Carolina General Statutes, have to take care  
17 of the safety of the motoring public also,  
18 and they also have to take care -- making  
19 sure that the train stays on the tracks, so  
20 these are the two things that they are

21       confronted with, for us to have a national  
22       standard at track safety crossing, I think  
23       is what we ought to try to accomplish.  
24       Because not just for the trains and not just  
25       for the collision between the trains and the

1 cars, but also for the construction and  
2 maintenance of the rails themselves at the  
3 grade crossings.

4 MR. COTHEN: Thank you, sir. I  
5 appreciate that perspective.

6 So that the issue that's brought here  
7 is one of surface, and I will posit to be  
8 corrected that this public crossing in  
9 general, sharing of responsibilities that  
10 are normally outside the rails' public  
11 authority, maintaining the surface and the  
12 gates, the railroad maintains the surface?  
13 Somebody direct me.

14 MR. RIES: Generally, it's over the  
15 track structure. On some states, it might  
16 go out another foot or so, and it would be  
17 the railroad's responsibilities.

18 MR. COTHEN: And the ties and the  
19 ballasts sections?

20 MR. RIES: And the ties.

21           MR. COTHEN: And in the case of  
22 private crossings the standard is?

23           MR. RIES: If there's agreement,  
24 typically it would be the agreements are  
25 usually written to be the property owner's

1 responsibility to pay for the maintenance,  
2 and the railroad would do the work actually  
3 over the track surface.

4 MR. COTHEN: If there's agreement, and  
5 we learned today that there's seldom an  
6 agreement, I mean, fiscally speaking, this  
7 is consistent with what we heard in  
8 Minnesota as well.

9 There will be more agreements if the  
10 situation were clearer, I'm sure, because we  
11 know that railroads try to work aggressively  
12 to close crossings where possible and to  
13 make sure that they are maintained safely.

14 Maintaining crossing surface is  
15 obviously something that's a challenge,  
16 given the number of highway rail crossings  
17 that needs to be attended to.

18 So thank you for that perspective. We  
19 need to always remember, and this is the  
20 case where we want to talk about

21 engineering, but certainly includes all

22 aspects of the crossing surface.

23 Other comments before we break for

24 lunch of a general nature?

25 I'm glad we had our public appearance

1 staff put out the press release, and we are  
2 grateful that the outlets here have taken the  
3 opportunity to notice the meeting and bring  
4 in a couple of folks.

5 MR. RIES: Just also to note, thanks  
6 to North Carolina DOT who put out their own  
7 press release about this as well.

8 MR. COTHEN: That's right, yes.

9 Thank you very much, Paul and Pat and company.

10 What we would like to do, I think at  
11 this point, is we will take a break, make  
12 sure that we have time to set up. We will  
13 go -- in order for you to be able to get  
14 your lunch conveniently, take any calls you  
15 need to take, we will come back at one  
16 o'clock.

17 Is there any information about  
18 cafeteria facilities? There's information  
19 at the back and cafeteria on site. We will  
20 be back at one o'clock and try to set up in

21 rectangular fashion and railroads will be at

22 the table. Thank you.

23 (Luncheon recess)

24 (Off the record at 11:46 a.m.)

25 (Continued on next page)



1           A F T E R N O O N   S E S S I O N

2           (On the record at 1:01 p.m.)

3           MR. COTHEN: Okay, let's resume,  
4 please. We set up optimistically, and we  
5 almost filled out the table. I appreciate  
6 those of you who were able to return for the  
7 afternoon session.

8           As we indicated this morning, what  
9 we'd like to do, without prejudice at all to  
10 taking on other topics if they arise, is to  
11 get some traction, if we can, on engineering  
12 issues related to highway rail crossing  
13 safety and private crossings in particular.  
14 And we know that we got the manual for  
15 uniform traffic control devices, AREMA and  
16 AASHTO standards and so forth as potential  
17 sources, among others, to apply principles  
18 used at public crossings, private crossings.  
19 But we also got some peculiar and special  
20 circumstances. We don't have many public

21 crossings where it's required to farm and  
22 only to combine and traverse only a few  
23 times a year in season, and that sort of  
24 thing.

25 And we also have the issue of

1 resources, which is not a trivial issue when  
2 you consider over 90,000, apparently,  
3 locations that need to be addressed.

4 So if we can, we will ask Anya Carroll  
5 from the Volpe Center to begin to generate  
6 some discussion here, give you a little more  
7 background on the topic and take us through  
8 questions and issues. Anya.

9 MS. CARROLL: Thanks, Grady.

10 Good afternoon, everybody. What I  
11 figured we would do, because you are such  
12 gracious visitors to this meeting, is take  
13 you through some of the highlights of the  
14 Minnesota meeting that we had, and maybe  
15 identify some other states that may have  
16 similar and other railroads that may have  
17 similar concerns that you have to try and  
18 stimulate the conversation.

19 The same list of questions which you  
20 have a copy of in the back of the federal

21 register notice were asked of the Minnesota  
22 delegation at their public meeting. And so  
23 we had some statements made by Minnesota  
24 DOT, which basically corroborated the fact  
25 that they have no regulations over private

1 crossings other than insured farm crossings.

2 They had issues over the cost of

3 closing private crossings and local

4 jurisdictions that do not want to maintain

5 private crossings.

6 They expressed the lack of funding for

7 grade separations, and whose responsible for

8 maintaining any traffic control device that

9 would be placed at a private crossing, if

10 that were possible.

11 Iowa DOT was present with us in

12 Minnesota, and they were looking for some

13 political will to close crossings, to allow

14 local and state jurisdictions to be able to

15 move that to fruition.

16 Canadian Pacific Railroad was with us,

17 and they mentioned some new guidance, new

18 regulations that transport Canada will be

19 bringing forward in the form of what they

20 call RTD-10, I think. In their terms, they

- 21 do not use the terms public versus private
- 22 crossings. They use the term restricted
- 23 versus unrestricted crossings.
- 24 So that's information for you to think about.
- 25 Transport Canada also has a research

1 team, they are IBI Group in Canada to look  
2 at the same issue of private crossings. So  
3 they will be coming out with a report, I  
4 would say, within the next six months to a  
5 year on the Canadian experience with private  
6 crossings.

7 They did some initial literature  
8 survey in that research. They went out and  
9 surveyed users and railroads off the private  
10 crossings. So that should be an interesting  
11 document.

12 Minnesota DOT also mentioned at our  
13 previous meeting that they may not have  
14 state resources available, even if there was  
15 funding coming to the state, to deal with  
16 private crossings. And even to do an  
17 inventory of private crossings, felt that  
18 they wouldn't -- they might not necessarily  
19 have the staff if they received funding to  
20 do that.

21 Minnesota DOT does mandate yield signs  
22 through their state for private crossings,  
23 and that they feel that there should be some  
24 sort of criteria in the MUTCD applied to the  
25 issue of private crossings.



1           One discussion point that came up was  
2           having a bibliography of all the reports  
3           that may impact our considerations about  
4           private crossings. And Volpe has been  
5           tasked by the FRA to try and put that  
6           information together in the form of a  
7           spreadsheet with links to the documents that  
8           will be put in the FRA docket on this  
9           matter.

10          And Danny, as far as you are  
11          concerned, I think it's a good idea to put  
12          those old 1993 guidelines in as part of our  
13          bibliography. So we will move ahead and do  
14          that.

15          We did talk a little bit about  
16          insurance issues, and the fact that there's  
17          no legal documentation available to provide  
18          a basis for negotiation to close private  
19          crossings or even to formally acknowledge  
20          where those crossings are.

21           And then we got into a long discussion  
22           about the engineering design and the types  
23           of categories. And you should have a  
24           handout, that's an excerpt in your packet  
25           that talks to a lot of what you mentioned,

1 Paul, this morning about the different types  
2 of crossings. And we are going to be using  
3 that in a few minutes to talk about well,  
4 how do we treat each one of these and how do  
5 you determine how they fall in each  
6 category?

7 There was an example given about types  
8 of categories that the levy association in  
9 Iowa is not considered a highway authority,  
10 so even if they may have roadway access to  
11 their levies, it's not a public roadway.

12 That was one example that was given.

13 In Wisconsin, from the DOT, the  
14 railroads must negotiate with private owners  
15 for new crossings.

16 So before a new crossing can be  
17 established under responsive DOT rule, the  
18 railroads must negotiate with the private  
19 owner, I guess, and have some sort of  
20 contractual agreement before that would be

21 allowed.

22 Also in Wisconsin, the local

23 jurisdictions are urging any new

24 developments to keep them private and not

25 make them public, so that the public doesn't

1 assume the responsibility.

2 Also, in Wisconsin, the state pays  
3 25 percent of the maintenance fees for the  
4 public crossings.

5 We talked about what's a public  
6 crossing and what's a private crossing in  
7 Wisconsin. If you have a public roadway on  
8 both sides of the crossing, it's then a  
9 public crossing. If it's a private road,  
10 then it's considered private.

11 MR. BROWDER: I don't quite  
12 understand. If it's a private road, it's  
13 considered private?

14 MS. CARROLL: If it's public on both  
15 sides, it's considered public. If it's  
16 public on one side and private on the other,  
17 it's considered private.

18 The types of users that use the  
19 crossings were of concern, and also what the  
20 public purpose is for each one of these

21 crossings, whether it be commercial access  
22 to a Wal-Mart, or recreational access to a  
23 boat ramp. How do you determine this, and  
24 how do you categorize them and what their  
25 needs are for any type of traffic control

1 device for one to be placed there?

2 There's also the data collection issue  
3 that was a big topic. Minnesota mentioned  
4 that the Federal Highway Administration has  
5 limited interest in crossings in general but  
6 private crossings as well, limited resources  
7 from the states. We heard a lot of that.

8 And then we talked about well, who  
9 could we partner with to discuss these  
10 issues? And for this meeting, we sent out  
11 over 600 invitations to multiple  
12 organizations to include trucking  
13 organizations, agriculture organizations,  
14 metropolitan planning organizations, so  
15 we'll still continue that outreach.

16 Some of the people that were  
17 identified as far as partnering was the  
18 Federal Highway Administration, the National  
19 Committee on Uniform Traffic Control  
20 Devices, AASHTO, AREMA, APTA, TRV, the

21 Bureau of Transportation and Statistics, the  
22 National Highway Traffic Safety  
23 Administration, the bus industry,  
24 specifically school buses were mentioned,  
25 federal transit, the AAR, the Short Line



1 Association and possibly even considering  
2 looking to DOT as far as security issues as  
3 Paul mentioned in his speech earlier.

4 So that was sort of a high-level  
5 summary of what we discussed. The docket  
6 will soon have the full results of the text  
7 that was taken by the stenographer in  
8 Minnesota, so you are able to read word by  
9 word of what went on there.

10 So with that, I think we want to move  
11 to -- does anybody have any comments or  
12 questions regarding the statements I just  
13 made about our Minnesota meeting?

14 Is anybody interested in providing a  
15 starting point for crossing categorization  
16 or engineering design of a particular type  
17 of crossing, or issues we may have, trying  
18 to do that?

19 Bill Browder?

20 MR. BROWDER: Since the railroaders

21 have been silent.

22 MS. CARROLL: Please, Bill, use the

23 mic and introduce yourself.

24 MR. BROWDER: Bill Browder from the

25 AAR. Is it working?

1           One issue that arose a little bit this  
2 morning from John Bryant that categorized  
3 standards and practices was the one  
4 concerning vertical alignment that was  
5 addressed in the accidents that shouldn't  
6 happen.

7           Back in March of '96, as a result of  
8 Fox River Grove, which in some ways is  
9 identified as hump crossings, that  
10 short-term objective was to provide some  
11 kind of indication which the MUTC did with a  
12 sign. But the long-term objection was to  
13 put together a group, which I was a member,  
14 Bruce George; Fred Small; AASHTO; AREMA;  
15 which was AREA at the time, and the Short  
16 Line Association, and as a data collection,  
17 we did a survey, which should be on your  
18 files, of crossing conditions that could be  
19 identified as vertical alignment issues, and  
20 in particular, identifying them at that

21 point from public crossings.

22 What happened with that report was

23 that they recommended to those members that

24 a technical committee be appointed to adopt

25 recommendations from the stakeholders.

1       Although that committee was appointed, I  
2       don't think anything ever got done. I don't  
3       think they ever met. And it certainly  
4       hasn't gone anywhere without -- with the  
5       agent or one of the basic problems I know  
6       was the frustration of trying to address it  
7       without any -- with the stonewalling,  
8       basically, of the highway side in terms of  
9       wheel -- distance between wheels and height  
10      above ground of equipment, and Bruce George  
11      tried to promote an effort that avoided  
12      that, I guess, is the way I would  
13      characterize saying that issue. But if  
14      something is to be done in terms of ITS to  
15      address those issues, and I don't know if  
16      that's germane to private crossings or not,  
17      that's a great place to start in that  
18      endeavor.

19           Also, in terms of standards, and I'm  
20      repeating myself in saying that the

21      railroads are not the experts on the highway  
22      side. And in terms of private crossings,  
23      there is certainly, as has been identified  
24      in my mind, a continuing lack of highway  
25      side authority or interest in providing the

1 authority. And the only thing that the  
2 railroads have been able to do from that  
3 perspective, quite frankly, has to be, it  
4 has to endeavor where private crossings do  
5 exist to obtain agreements. And as you can  
6 see, our track record is not good. And it  
7 isn't from a lack of trying to obtain  
8 agreements.

9 CSX several years ago had a very  
10 assertive policy, not aggressive, to obtain  
11 agreements on private crossings that they  
12 did not have agreements on. And after about  
13 a year, they were completely frustrated, in  
14 many cases by local judicial authority that  
15 threw their cases out of court when they  
16 attempted to obtain some kind of action that  
17 would require a good faith negotiation, and  
18 even to the point of arbitration as far as  
19 some sort of written agreement. Some  
20 landowners that already crossed, just

21 absolutely refused to have anything to do  
22 with any kind of agreement. And I really  
23 appreciate, Grady, you saying this morning  
24 that the railroads were doing a god job. We  
25 don't hear that very often. I'm sure you



1 don't hear it very often either from other  
2 constituents, that the railroads are using  
3 the money and laden, heavy-handed people  
4 that are out there and are not good, solid,  
5 business citizens of communities and  
6 stakeholders.

7 In my 38 years in the railroads, I  
8 think railroads that I have been associated  
9 with have always tried to be good business  
10 citizens of communities where they are  
11 involved. Certainly, as Gil Carmichael had  
12 said, there are way too many crossings and  
13 the work group has been the private  
14 crossings out there that proliferate the  
15 countryside and the lines, and certainly  
16 each of these crossings has a certain  
17 exposure to safety, not only to the  
18 individuals that use the crossing, but to  
19 the train crews that traverse it.

20 And so I'm pleased to hear that we're

21 at least at the table in terms of trying to  
22 develop areas where there are commonalities.

23 Now, the bad news is that I'm not sure  
24 that we in the railroad industry have total  
25 commonality out there as far as where we

1 want to be. And, again, that stems from the  
2 fact that we're dealing with 49 different  
3 states as well as hundreds of local  
4 authorities and literally thousands of  
5 individual landowners and individuals who  
6 represent everything from stadiums to  
7 parking lots to strip malls to shopping  
8 malls.

9 And I think there are some good, basic  
10 things that have come out of what we've been  
11 talking about from an engineering standpoint  
12 that are basic areas that could be  
13 addressed.

14 There is in the AASHTO green book and  
15 AREMA, a standard for highway railway  
16 crossings, highways, either through the rail  
17 end of the crossing and to a certain number  
18 of feet outside the rail at a point, and it  
19 depends on the angle of the crossing and the  
20 rail, so I'm not going to give you feet, but

21      you can look it up and make it part of the  
22      record. The problem is that nobody else is  
23      out there doing anything that addresses any  
24      kind of potential standards or practices  
25      that can be agreed to on the highway side.

1           Again, we have certain things that we  
2           have even committed to.

3           If you go back to that report,  
4           basically the railroads committed, and this  
5           is really nothing new, I always heard it  
6           when I was a civil engineer, well, you come  
7           through and you timber and services crossing  
8           and raise it up every time. You see that  
9           crossing over there? You timber and service  
10          it, and it's way up in the air and it didn't  
11          get up that way with timber and servicing.

12          In most cases, I can tell you from hands-on  
13          experience putting in crossings that you  
14          actually have an issue in terms of  
15          settlement in the highway end of the grade  
16          crossing. And yes, we do put some elevation  
17          when we go through and timber and surface  
18          it. But by six months afterwards, if we've  
19          done it right, it settled back to where it  
20          originally was, and if we haven't done it

21 right, it may even be below it and we have

22 another problem.

23 So often these things are things that

24 I think that brother Worley was right on

25 target and right on the money that AASHTO

1 can be an active individual to support these  
2 kinds of engineering efforts.

3 I know that I can halfway speak for  
4 AREMA, although they are not here.

5 I think that, again, there's some  
6 other experience out there in the private  
7 crossing area. I point back to the efforts  
8 that have been made in the public crossing  
9 areas and suggesting that HWA certainly has  
10 some very knowledgeable people that can  
11 contribute. And as Paul said, Paul Worley  
12 said earlier, and I was glad to hear him  
13 talk about this, since he was there with me  
14 in the technical working group, I think his  
15 idea of convening some sort of technical  
16 working group like the one that we had may  
17 be an excellent idea, at least in getting  
18 stakeholders in some kind of a conference  
19 situation.

20 We've got very few stakeholders here

21      when you get right down to it. We've got  
22      North Carolina DOT, and I love them dearly,  
23      and I have been trying to wean myself from  
24      North Carolina how long now, Paul? Since I  
25      had you over there at the state fair?



1 MR. WORLEY: It's been a long time.

2 MR. BROWDER: For years, and I'm still  
3 not out of the woods. And nothing against  
4 North Carolina or West Virginia, I love them  
5 dearly too, but I think we need to get the  
6 rest of the group together to look at the  
7 engineering, or have I said enough Grady? I  
8 will shut up.

9 And I want the record to show that I'm  
10 from the railroads, and I want to contribute  
11 my part to avoid any further criticism from  
12 the chairs. Thank you.

13 MR. COTHEN: It wasn't intended as  
14 criticism. It was intended as  
15 encouragement. We thank you for taking the  
16 bait, I mean, stepping up and adding to the  
17 discussion.

18 Thank you very much for that.

19 MS. CARROLL: Anybody else?

20 MR. WORLEY: I got one thing to add

21 before you get into a lot of engineering  
22 inventory classifications. That's one thing  
23 that we can look at, but I would ask that we  
24 do consider the need to cut back based on  
25 the data and to look at different kinds of

1 treatments, because you can in a vacuum or  
2 based on a certain level of experience  
3 recommend certain kinds of signage or  
4 certain kinds of signals or certain kinds of  
5 signs, but really you need some real world  
6 tests out there to rely on DOT and to get  
7 the data. We do a lot without gathering  
8 data, and for something that's as big as  
9 private crossings, something that's out  
10 there before we start lifting and signing  
11 standard, make sure we have some really good  
12 data. We need to have it in there. Don't  
13 study forever. Some places study forever,  
14 but --

15 MS. CARROLL: Thank you Paul. I  
16 actually had a couple of questions for you.  
17 I know you are involved in AASHTO in the  
18 SCORT committee, and one of my things was my  
19 bedtime reading as of recent has been page  
20 by page, line by line, word by word MUTCD

21 and AASHTO green book. Some of the things I  
22 found were interesting, as I was not looking  
23 for necessarily highway-rail grade  
24 crossings, but other roadways that could be  
25 classified as private roads, which may

1 intersect the railroads. I found a couple  
2 of interesting citations in AASHTO, a whole  
3 section on driveways. There is guidance in  
4 AASHTO on how you sign and control access to  
5 driveways. And my question to you, Paul,  
6 and the other piece that I found was on  
7 recreational roads. And I was wondering,  
8 Paul, if you had any idea of how these came  
9 about, and whether they would be applicable  
10 to look at as some sort of way to bring  
11 AASHTO on board with private grade  
12 crossings?

13 MR. WORLEY: Well, I think we are on  
14 board with the SCORTs. First of all, I  
15 think AASHTO is on board, first of all,  
16 through the standard committee on rail, and  
17 a lot of the other safety issues we have got  
18 going on, but I would ask as far as accurate  
19 green booth goes, I would think the intent  
20 there would be to address where it said

- 21 driveway or access roads, private
- 22 intersections of public highway, the
- 23 railroad is not a public railroad.
- 24 So you still have, you know, you do
- 25 have that traffic control device at the

1 public highway, and the public purpose  
2 thereof is to protect the user of the public  
3 highway for someone not having the stop sign  
4 and pull right out.

5 So I can imagine that's probably where  
6 those signs of standards came from years  
7 ago. But that does give you the ability to  
8 look at well, being that there's public  
9 purpose in railroad crossings to railroads  
10 in interstate commerce, that's something to  
11 look at. But I think that's the reason the  
12 agreement was made.

13 MS. CARROLL: But it does look at a  
14 private intersection of a public roadway,  
15 because there is guidance for private roads  
16 over public access.

17 MR. WORLEY: Right, exactly.

18 MS. CARROLL: So my thought was that  
19 since the door might be a little ajar, we  
20 could look at those as a baseline to work

21 from, you know, off a driveway or  
22 recreational, because the studies must have  
23 been done if AASHTO was quoted in the green  
24 book to say these are the kinds of things  
25 you need to look at when you have access.



1           MR. WORLEY: The former access group  
2           would be signed, that's much different. I  
3           don't say the concept is bad. I'd say  
4           that's not a real good comparison when you  
5           start talking about access to a public road  
6           with a highway rail crossing. And Bill has  
7           the battle we went through with the signs,  
8           stop signs and highway signs when you start  
9           trying to use a highway standard or bring  
10          those guys into it that way.

11          MS. CARROLL: We don't have anybody  
12          here representing the National Committee on  
13          Uniform Traffic Control Devices, do we?

14          MR. WORLEY: We're on the committee.

15          MR. BROWDER: Well, Paul and I are on  
16          the committee. Dave Peterson at the Fort  
17          Snelling meeting brought that up, and I told  
18          the staff up here that I had called Rick  
19          Campbell, who probably is the best and most  
20          representative individual for the national

21 committee to discuss their approach and  
22 perspective on the work that they are doing  
23 in this area, and Brian Gilrad of Ron's  
24 staff is also involved.

25 I suspect -- Ric committed to me that

1 he would come to a meeting, and I imagine,  
2 since he is not here, that he would come to  
3 the New Orleans meeting, that would be  
4 closer for him out of Fort Worth.

5 Does that help any?

6 MS. CARROLL: Yeah, it helps a little  
7 bit.

8 I was interested in a piece within the  
9 MUTCD, the 2003 edition, that talks to low  
10 volume roadways. And, again, I'm trying to  
11 stretch a point, like I tried to do with the  
12 driveways and the recreational roads. I  
13 mean, if we had accurate ADTs on private  
14 crossings and they fell below 408ATD, would  
15 they then fall under a MUTCD guidance for  
16 low volume roads whether they were public or  
17 private?

18 MR. WORLEY: I don't think you could  
19 do it.

20 MS. CARROLL: There is guidelines out

21       there.

22           MR. WORLEY: Right. These are low

23       volume roads where you put up gates and

24       locks.

25           MR. BROWDER: From AAR's perspective,

1 and speaking from my seat on the national  
2 committee, I would suggest that there's so  
3 many other parameters that were considered  
4 in the establishments of low volume roads,  
5 other than what we're looking at here, that  
6 if that's something that you all choose to  
7 do, I would just start from scratch and work  
8 and develop what you would like to see as  
9 your own standards and practices, rather  
10 than pointing at what the MUTCD has done  
11 which represents a real compromise of many,  
12 many, many other different facets and the  
13 establishments of that criteria. Just an  
14 idea.

15 MS. CARROLL: Okay, thank you, Bill.  
16 Well, I just had those two burning questions  
17 I had to ask, since I had some  
18 representation here.

19 MR. FIELD: My name is Jason Field  
20 again, I'm with NCDOT's rail division. And

21 I think one of the issues we really need to  
22 focus on is any treatment for any of the  
23 these crossings needs to be based on  
24 engineering judgment at the specific  
25 crossing. The idea of looking at a blanket

1 policy with a set criteria for ADT, I think  
2 is faulty. You have got issues of curvature  
3 of the railroads, the road sight distance.  
4 In North Carolina, we physically evaluate  
5 every single crossing prior to determining  
6 what kind of treatment we are going to apply  
7 there, whether it be gates, medians,  
8 barriers, elongated arms, in some cases side  
9 panels.

10 One thing that's been an issue for me  
11 is the broadband use of application of stop  
12 signs. While stop signs seem like a good  
13 idea at first glance, one of the issues that  
14 may or may not be considered before those  
15 are applied, as opposed to a yield sign, is  
16 the idea that the designed vehicle is  
17 required by law now to stop at a crossing,  
18 and depending on the train speed, I think  
19 there's a serious issue if that designed  
20 vehicle, if it's an 18-wheeler loaded has to

21 put it in gear and try to clear the tracks  
22 to get out of the dynamic envelope of the  
23 train and is not able to.  
24 We recently had an incident with our  
25 Piedmont at a private crossing which charred



1       our train, it ripped the whole fiber glass  
2       shell off the front of it and basically put  
3       our train down. No serious injuries,  
4       fortunately, but the idea of a blanket usage  
5       of passive protection, I think, needs to  
6       weigh on the yield side of things versus the  
7       stop sign side of things, and if some sign  
8       is applied, it needs to be based on sound  
9       engineering evaluation on that specific  
10      location.

11           MS. CARROLL: I think all of the  
12      guidance that I read when it talks to rail  
13      crossings, it says, and based on engineering  
14      design team considerations. So I don't  
15      think that's going to go away.

16           MR. FIELD: Another issue regarding  
17      Bill's comments on the hump crossing  
18      approach and highway's approach to the hump  
19      crossings, we attempted to few years ago to  
20      develop a program to address hump crossings

21 and public grade crossings. I developed a  
22 nice little formula for kind of developing  
23 an index number, so that we could approach  
24 that, and we approached the Feds, as far as  
25 funding or in terms to trying to fund

1 something like that, and we weren't able to  
2 get support for that. So we ended up  
3 putting it on the back shelf.

4 One of the issues you are going to  
5 find on private crossings, generally private  
6 crossings are going to follow the existing  
7 geometry that was there. Whereas, public  
8 crosses, when roads are being built, you  
9 want the money to raise the approaches for  
10 the grade. And railroads are trying to get  
11 out of the water for private crossings. You  
12 are basically going to follow that ballast  
13 line.

14 The scariest crossings I closed was on  
15 CS section of double A line in  
16 Charlottesville. Where literally you went up  
17 the ballast line of asphalt, crossed and  
18 went down the other side and the crossing  
19 was nine feet wide, if it was lucky. It was  
20 not a good situation. And so the idea of

21 having some kind of standard developed for

22 widths and things is something else that

23 ought to be considered.

24 MS. CARROLL: Thank you, Jason.

25 I think we want to move, unless

1 anybody has any comments on -- yes, Arthur.

2 MR. PETTEWAY: If I could add  
3 something. I like the idea when we talked  
4 about, when we first talked about gathering  
5 data important, but also when we are talking  
6 about engineering standards and  
7 specifications, we have to at some point  
8 make a determination of whether or not a  
9 crossing can be closed.

10 So let's not leave closing a crossing  
11 out of the mix. That should be a part of  
12 the evaluation and part of the engineering  
13 that you do have to cross.

14 So just wanted to make that point also.

15 MS. CARROLL: Thank you. That's very  
16 well taken.

17 MS. KLOEPPPEL: I have been listening  
18 to various comments, and I certainly believe  
19 firmly in the value of engineering  
20 evaluation before putting any particular

21 traffic control devices in place. But I  
22 understand -- I was involved in the  
23 technical work that was -- that put together  
24 that guidance before. One of the  
25 motivations behind that was an acceptance

1 that you are not necessarily going to get a  
2 full engineering study. And so we were  
3 trying to provide some baseline information  
4 for people who might not be as technically  
5 competent as people in the state level are.  
6 And I was wondering what people felt about  
7 the value of a similar effort on private  
8 crossings. We did this for public  
9 crossings. Would it be valuable to have a  
10 group establish some baseline parameters?

11 MR. PETTEWAY: Yes.

12 MS. KLOEPPEL: Do you have, I guess  
13 I'm trying to draw the words out here, some  
14 opinions, or does your experience tell you  
15 what some of the considerations are that  
16 would make a private crossing different from  
17 a public crossing, and can we use that to  
18 fuel the conversation here?

19 MR. FIELD: Absolutely.

20 MS. KLOEPPEL: And this goes to

21       anybody, I'd like to hear what sorts of  
22       organizations would be important to have if  
23       we were going to discuss this more in depth.  
24           MR. FIELD: Jason Fields, NCDOT. I  
25       think as far as the things that we receive



1 in North Carolina, there's a lot of cases  
2 where we have single vehicle width crossings  
3 with very bad sight distance, plus it goes  
4 across.

5 So obviously any group that deals with  
6 bus traffic, and that kind of thing, they do  
7 the best that they can, in addition to  
8 somebody with industrial trucking  
9 facilities. We've got a lot of cases,  
10 especially around our metropolitan areas,  
11 where you have got private crossings in  
12 industry that sometimes are internal to plan  
13 operations in addition to truck access  
14 points. And, of course, in most cases where  
15 you see that you have got a parallel road  
16 next to the tracks, that makes gating  
17 crossing very difficult and things of that  
18 nature.

19 I think it's important to have  
20 somebody from the highway side of things.

21 As a lot of cases, we're looking more  
22 towards doing some signage in some of our  
23 public crossings in rural with low ADTs that  
24 are public crossings, in addition to the  
25 rail division, obviously, or whatever state

1 agency looks after that kind of thing. And,  
2 of course, the railroads, they have got a  
3 stake in this as well.

4 I imagine one issue the railroad is  
5 going to be wanting to look at as far as a  
6 policy is what kind of protection for doing  
7 that kind of treatment, and there's the  
8 question of where the money comes from.

9 MR. WORLEY: Also, you talked earlier  
10 about the American Planning Association.  
11 Those types of planners are real important  
12 when you start talking about private  
13 crossings and development.

14 One thing about private crossings, you  
15 get more into the railroad and maintenance  
16 away, because you don't have the signals  
17 that you have in public crossings. So you  
18 really need to get some folks in there that  
19 are involved more in track maintenance and  
20 drainage maintenance. It's just a very

21 different animal with private crossings,  
22 plus you don't have the road bed in some  
23 cases, you don't have good drainage, you  
24 don't have the good approaches that you have  
25 in public crosses where you have a road

1 that's already municipal or state or county  
2 maintained, those approaches you have got  
3 railroad maintaining what's their only  
4 operating right-of-way and then paths of  
5 private driveways or concrete leading up to  
6 it.

7 Another thing within AASHTO, you've  
8 got the motor carrier group to think about  
9 as well, because you may have some private  
10 crossings that are in the important  
11 facilities or industrial type things, and  
12 motor carrier folks have a lot of good input  
13 on those kinds of things as well. So.

14 MS. KLOEPPPEL: Thank you. Sorry,  
15 Anya.

16 MS. CARROLL: That's okay. Just on  
17 the motor carrier piece, I know there's  
18 something currently going on, maybe Ron can  
19 give us a little bit more information on  
20 FFMCSA and some proposed rule making that

21 they have got going on with crossings.  
22 MR. RIES: In response to, I believe  
23 it's 1994 legislation, federal highway at  
24 that time, which was responsible for  
25 commercial motor vehicles, was directed to

1 issues statute of being a federal offense  
2 for a motor vehicle to go over a crossing  
3 unless it was known that the vehicle can go  
4 completely clear of the tracks so that they  
5 had proper storage of space. They actually  
6 issued a rule a couple of years ago, three  
7 years, it ended up getting pulled until they  
8 are in the process now of starting that  
9 rule, making public meeting in DC last week,  
10 and the only member of the public that  
11 showed up was our friend, Mr. Browder.  
12 There were about 15 feds and Bill.

13 MR. BROWDER: And they made me speak  
14 too, didn't they?

15 MR. RIES: Yes, they did. So that  
16 issue of storage space is still very real,  
17 and I think Bob's picture in the  
18 presentation showed a very real problem. So  
19 there will certainly be more coming from the  
20 FMCSA in that area.

21 MS. CARROLL: My thought was there  
22 that maybe FMCSA could be another partner in  
23 the technical working group, as well as  
24 AASHTO.  
25 MR. RIES: And Federal Motor Carrier



1 Safety Administration work with FRA in  
2 operation lifesaver, developed a trucker  
3 safety advisory card that gives them  
4 crossing safety information, and we're  
5 putting up a quarter of a billion of them  
6 and we have all but 10,000 have been called  
7 for. So there's certainly an interest in  
8 that agency in terms of safety. But they  
9 are attempting to reach out.

10 MS. CARROLL: Anybody else have any  
11 thoughts on other partners that could be  
12 part of this technical working group to deal  
13 with this issue that may bring to the table?

14 I don't know who at ITE we would  
15 contact for the old list. I think there are  
16 about 250 members of that technical working  
17 group, from what I remember, in total. I  
18 know James Cheeks has since departed from  
19 ITE, and he was part of that keeper of the  
20 historical record. I guess that's an action

21 item for us to look into.

22 MR. RIES: And from a technical

23 working group, when we finished the work, it

24 was one of their hopes that they could

25 reconvene in five years and review and try

1 to update that document. So that might be  
2 an opportunity to expand the charter to look  
3 at private crossings with those folks.

4 MS. CARROLL: Who would be in charge  
5 of that?

6 MR. RIES: Federal railroads are the  
7 ones that sponsored. I don't remember if  
8 HWA contributed to the funding of the  
9 contract with ITE.

10 MR. BROWDER: You mean, October of  
11 2002?

12 MR. RIES: Pardon?

13 MR. BROWDER: The October 2002 group?

14 MR. RIES: The technical working group  
15 yes, the 2002 group. So it's pretty much a  
16 federal highway.

17 MR. BROWDER: I sure got the  
18 impression that they were in it.

19 MR. WORLEY: It's on their web site.

20 MR. RIES: It was a joint effort so.

21           MR. BROWDER: What happened, if I  
22           remember correctly, Paul, is that it started  
23           with a meeting at the Texas national  
24           conference, and it was a meeting of anybody  
25           who wanted to come.

1           So you got a whole litany of staples  
2           who came. And then I remember the second  
3           meeting was out in San Diego. I remember  
4           you, Andrew, standing outside worried about  
5           the transit coming to Raleigh. And we had a  
6           different set of stakeholders.

7           So we had the original stakeholders.  
8           So that's where you get the 250.

9           MS. CARROLL: Well, then we had Myrtle  
10          Beach.

11          MR. BROWDER: Myrtle Beach, and, of  
12          course, that was a South Carolina hosted  
13          southern region conference, and so you had  
14          the folks that were there for that  
15          conference that came too.

16          So, you know, I'll bet that Shelly  
17          Rau, who took James Cheeks' place over  
18          there, was responsible, would have an idea  
19          of some of the things, at least some of the  
20          litany of material that went on in terms of

21 the people. If not, I've got Cheeks'  
22 address, and they still use him as a  
23 consultant for their grade crossing  
24 committee. We will see him in January.  
25 MS. CARROLL: Thank you, Bill.

1           Moving on to our engineering design,  
2           we wanted to look at things like, well, we  
3           talked a little bit about the home crossing  
4           or the vertical clearance, horizontal  
5           clearance. A lot of these types of  
6           criteria, even though they are applicable to  
7           public roads, are found in some of these  
8           guidance documents for crossings. But what  
9           we'd like to do is go through and discuss  
10          engineering designs.

11          We could start with categories of  
12          crossings that you want to try and identify,  
13          which may have different characteristics  
14          from each other, or we can start with just a  
15          list of what you would look for, or how you  
16          would determine the types of traffic control  
17          devices, sight distances for private  
18          crossings versus public.

19          So you have the list of what was  
20          developed in Minnesota in your packet there

21 as far as categories of other types of  
22 crossings. Does anybody have any additions  
23 to this that we could add? Are there groups  
24 that we could consider similar, for example,  
25 the term farm is used a lot, but is the true



1 term agricultural crossings? Because you  
2 may have farms or orchards or other things  
3 where you are still going to have heavy  
4 machinery.

5 So I just wanted to get your opinion  
6 on this list, add, subtract, contents and  
7 then we can move on to engineering design.

8 MR. CRUZ: Ric Cruz, NCDOT. You said  
9 other than commercial, but you don't mention  
10 commercial at all.

11 MS. CARROLL: Okay. This is  
12 highlights, summaries of notes that we took  
13 from our Minnesota meeting. This is just a  
14 category that we mentioned similar to, you  
15 know, government, like military stuff. It  
16 was just a category. We didn't eliminate  
17 anything. We didn't really define these  
18 categories. We just did some brainstorming.

19 MR. CRUZ: One of the standard fields  
20 that we do collect is commercial versus

21 industrial and residential, recreational,  
22 institutional. And I'm not sure what is  
23 meant by other commercial.  
24 And as far as the government public  
25 facilities, it talks about military access

1 and planning. I'm not sure access I  
2 understand, but planning is just railroad  
3 crossing at the base.

4 MS. CARROLL: Yes, and that would be  
5 the same for the railroads, internal  
6 railroads facilities. It would be crossings  
7 within their --

8 MR. CRUZ: If you went military, you  
9 have public access roads within the military  
10 base itself, versus you have military  
11 purpose roads, where you have tanks and  
12 other heavy equipment. And do you want to  
13 further identify those or not?

14 MR. FIELD: Equipment versus  
15 nonequipment?

16 MR. CRUZ: Right. I mean, that's  
17 something there's knowledge about that.

18 MR. GILBERT: Even commercial might be  
19 a bullet point under industrial.

20 MS. CARROLL: No, I think it was more

21      who was it? Was it Iowa? Iowa mentioned  
22      the levy authority having an access road to  
23      their levies, and it wasn't commercial, it  
24      wasn't recreational. I think it might have  
25      been the levies that -- there were other

1 private roads out there that are held under  
2 the authority of certain institutions, but  
3 they are not necessarily public authorities.

4 So I think that's what that levy, the  
5 levy might be the answer to that one.

6 MR. WORLEY: You have got crossings at  
7 access. There are DOT crossings that are  
8 not both crossings, in other words, the  
9 irrigation area, those kind of things.

10 MR. FIELD: Basically other category.

11 MS. CARROLL: Or resource management.  
12 I don't know what the term would be.  
13 Resource management crossings or something  
14 of that nature.

15 MR. GILBERT: Why would you not have  
16 commercial and have something under it? I  
17 mean, you are talking about where does  
18 Wal-Mart fit in here? You know, Wal-Mart  
19 would be a commercial, it's not going to be  
20 an industry.

21 MS. CARROLL: I've added it to the

22 list.

23 MR. FIELD: There ought to be

24 something included that kind of shows the

25 difference between a commercial property,

1 such as a Wal-Mart, which is a huge traffic  
2 generator, versus, you know, a TV repair  
3 shop that's much less inclined to generate  
4 as much traffic. It's a private crossing.  
5 There's few locations in North Carolina  
6 where there's actually a single allocated  
7 crossing going into a parking lot, a mall,  
8 for example, and you label that as  
9 commercial, as well as, you know, much less  
10 lower density of crossing area. That might  
11 be something you want to differentiate.

12 MS. CARROLL: So you think ADT would  
13 be a criteria within commercial that you  
14 want to address?

15 MR. FIELD: I think it might be  
16 worthwhile to have that added. Actually, if  
17 you have an inventory sheet using the  
18 current state inventory sheet, ADT is going  
19 to be one of those items anyway.

20 MR. WORLEY: Traffic too, I would

21        imagine, trucks versus cars.

22            MR. FIELD: Percentage of trucks is

23        also currently on there.

24            MR. CRUZ: The problem with that is

25        that's not included within a private



1 property.

2 MS. CARROLL: Inventory.

3 MR. WORLEY: You still have tank farms  
4 that have access of private crossing.

5 MR. FIELD: We need to incorporate a  
6 lot of the baseline data on current public  
7 inventory sheets over to the private  
8 inventory sheets, it sounds like, better  
9 characteristics employed, used in crossing.

10 MS. CARROLL: I guess when that topic  
11 was brought up at our meeting in Minnesota,  
12 Minnesota was quite determined to say they  
13 don't have state DOT staff available to keep  
14 up to date with their public grade  
15 crossings. And you could throw all the  
16 money you want at us, and we still won't  
17 have the staff to get to the private  
18 crossings. And is it their jurisdiction to  
19 be able to do that anyway? So we come back  
20 to a catch 22, how do we collect the data?

21           MR. GILBERT: You've got crossings in  
22           this commercial thing. I mean, I think in  
23           west end, you've got commercial and a huge  
24           residential area, real estate, accessed by a  
25           private crossing, which is truly multi,

1 multi, you know, faceted. I mean, it's  
2 landowners, it's everything.

3 MR. FIELD: All using a private  
4 crossing.

5 MR. GILBERT: All using one private  
6 crossing.

7 MR. CRUZ: One other thing, right now,  
8 the current -- the way the data is selected  
9 under private crossings, there's only, and  
10 this is what we're talking about, it says  
11 categories private and public properties. I  
12 would think all these here would fall under  
13 private properties is what you are trying to  
14 say. Right now, there's only three, and  
15 that's FRA and state and most states are the  
16 same thing.

17 So just collecting the data and  
18 distributing the data is going to be a  
19 measured change.

20 MS. CARROLL: Based on the comment you

21 just made Ric, is it, I mean, would it be a  
22 good approach to look at functional  
23 classifications of private crossings similar  
24 to what they do with roadways, where they  
25 look at level of service that the road

1 provides, type of vehicle that the roadway  
2 carries, and then from there once we build  
3 sort of a functional classification and  
4 types of users and frequency of user, you  
5 can then try to provide some baseline  
6 standards for traffic control devices or  
7 geometric design of those crossings or sight  
8 distance needs or requirements of those  
9 types of crossings?

10 MR. CRUZ: As a basis, you can start  
11 with just using the standard FRA required  
12 fields, extend those to the private  
13 crossings, and then everything that you have  
14 already done, Grady included at that point  
15 could be used, and you can alter it, fine  
16 tune it in all those areas you are talking  
17 about. But all that information already  
18 exists field wise. All the databases  
19 already are developed, and all the models  
20 represented have that information. So all

21       you are doing is extending that to private  
22       property. That would be the simplest way to  
23       do that if you gather that data.

24           MS. CARROLL: Who do you feel would be  
25       the most appropriate person to gather that

1 data?

2 MR. CRUZ: Well, the people who are  
3 most knowledgeable in doing it would be the  
4 states. The states are doing it even more  
5 so probably, than, I think, the railroads.  
6 You would have to have some ways of either  
7 augmenting their resources financially or  
8 personnel wise, either consultants or  
9 in-house. Those would be the people who  
10 understand better than anybody who deals  
11 with it, more quickly be able to give that  
12 data to the end users, bring that point so  
13 that we can actually use it in all the  
14 different type of modeling.

15 MS. CARROLL: Thank you, Ric.  
16 Leslie, you have a comment?

17 MS. SPURLOCK: Is there a potential  
18 that you could go to like a college and get  
19 their senior students in engineering to do  
20 that kind of project?

21           MR. CRUZ: Part of the problem I've  
22           had, we've actually had consultants and used  
23           interns in our program. Also, it takes  
24           probably six months to a year to train these  
25           people to be able to actually collect this



1 data in uniform factually, so we are looking  
2 at the same thing, and extend that  
3 information back.

4 MR. WORLEY: And it's dangerous.

5 MR. CRUZ: That's true, it is  
6 dangerous.

7 MR. WORLEY: One of the things we talk  
8 about private crossings, remember sometimes  
9 we think about private crossings as those  
10 that we see from the road as a driveway.

11 But when we did some of our initial PCSI  
12 surveys, and Bob can attest to this too,  
13 some of those private crossings you have to  
14 go through a man's field, go behind their  
15 tobacco barn, go around the pond, and you  
16 get in the middle of nowhere, and there's a  
17 crossing, and then it goes back to that  
18 field. Or you may have one that goes back  
19 behind the hump yard. There's a trail that  
20 goes down behind the hump yard and it goes

21 in or whatever. But you are getting into  
22 some private property, and that's a  
23 consideration when you start talking about  
24 sending state employees or any kind of  
25 employees on private property, you have got

1 a lot of hazards to get to the crossing, if  
2 it's not readily accessible. And there's a  
3 lot that are like that.

4 And then the other thing we talked  
5 about is protecting the crossing in  
6 geometrics.

7 One of the things we looked at with  
8 private crossing safety initiative is when  
9 you treated crossings, you just treat the  
10 crossing, you know, pretty much there, as is  
11 with signs and devices. Because when you  
12 start looking at the geometrics, and you  
13 start looking at the approaches, in some  
14 cases you are going to get off the railroad  
15 right away back on private property. And if  
16 you are doing something with federal funds  
17 or state funds, you are going to have to  
18 have some right-of-way if you are going to  
19 have public dedication to deal with private  
20 property. Those things can be overcome but

21 got to be considered.

22 MR. CRUZ: Adding to what Paul is

23 saying, and Jason brought this up earlier

24 when we were talking about it, actually, the

25 best way to collect data on private property

1 is get a high-rail vehicle on the rail line  
2 itself, because then that's the only way you  
3 can be sure that you catch every single  
4 private property. Some private properties,  
5 by trying to go to them, you can't get to  
6 them.

7 MR. WORLEY: You still don't know  
8 where to go on the high rail. You don't  
9 necessarily know where it is.

10 MR. CRUZ: That's true. But using an  
11 aerial for anything like that might be  
12 useful.

13 MR. FIELD: To get a general idea and  
14 application too. You can tell generally a  
15 hunting trail from a boat ramp crossing or  
16 something like that.

17 MR. CRUZ: Going on high rails, you  
18 pick up another problem with the railroads  
19 need time to do that. In our experience,  
20 it's been very difficult to try to organize

21 the logistics on that.

22 So it's very hard to do.

23 MS. SPURLOCK: You had mentioned

24 earlier about Transport Canada using the

25 description restricted and unrestricted,

1       because maybe that's something we should  
2       look at too, because restricted would be  
3       somebody's really private property. He  
4       doesn't want you in their backyard when the  
5       train goes through a creek or something;  
6       don't go back there at all for your safety  
7       or anything else. And then there's the  
8       unrestricted, which is going into industrial  
9       yard. You want to go out and pick out some  
10      cement yourself. You want to go to K-Mart,  
11      Wal-Mart something like that. Because  
12      that's like if I want to go in and buy a  
13      tree from a nursery, it might be a private  
14      crossing, but it's not unrestricted to me.

15            So maybe that's another way you look  
16      at how you pass judgment on what kind of  
17      warnings should be aware, because the  
18      gentleman's farm crossing that nobody gets  
19      to but twice a year needs, I would think, a  
20      different kind of warning than somebody who

21 is going into a nursery to pick up plants in

22 the spring or the fall.

23 MS. CARROLL: That begs a question for

24 me is how do you determine how private or

25 how public a private crossing is?



1           MR. WORLEY: That's what I said. You  
2           can't, because you get into situations where  
3           people have a driveway. It's a nice wide  
4           driveway. It says don't use this driveway  
5           unless you have business with us. Don't be  
6           turning around. I see that as restricted.  
7           That's when you get into the United States,  
8           the private property rights issues and farm  
9           bureau and all of that. That's one thing  
10          when you start talking about people at the  
11          table you are dealing with, you might as  
12          well ask the farm bureau to be here too,  
13          because the property rights mentality, it's  
14          a little bit different in Canada versus the  
15          United States.

16  
17          MR. SHANK: Canada may be  
18          unrestricted, would be the equivalent of say  
19          municipally dedicated versus restricted any  
20          other too.

21 MS. CARROLL: I haven't read -- the  
22 law hasn't been passed, so it's not open for  
23 public viewing. So I can't give you a  
24 definition of what it means. But from  
25 Leslie's comment, how would you deem a

1 private crossing that has public use? Is it  
2 more than one user? Is it more than ten  
3 users?

4 MS. SPURLOCK: Make it so that the  
5 owner is not shooting at them.

6 MR. WORLEY: Maybe you just choose.

7 MS. SPURLOCK: Obviously, some owners  
8 if you are going in to buy parts, what do  
9 they call it, like an auto graveyard or  
10 something, because you are looking for a hub  
11 cap, they know the public is coming in, so  
12 they are unrestricted. Or like I said, a  
13 nursery or a Wal-Mart or whatever it might  
14 be. A concrete company may not want you  
15 there at all. They are restricted except  
16 for their trucks that have permission to go  
17 over. Maybe you need to find out what their  
18 policy is of the company's, and just assume  
19 that somebody who has got it on their farm  
20 property, that's going to be restricted.

21 Why even ask them? They don't want you in

22 their backyard.

23 MR. FIELD: I think maybe the way to

24 look at that is physically restricted. You

25 know, if it's gated versus not gated,

1 because, you know, there are people crossing  
2 my property all the time walking, and, you  
3 know, but if I put a fence up, they would  
4 have to climb a fence. I think from a legal  
5 standpoint, it's gated.

6 I know in a lot of cases we assess  
7 private crosses in the public right-of-ways  
8 based on the fact there's a gate on this  
9 side of the tracks. If there's a gate on  
10 this side of the tracks, it's pretty clear  
11 the general public is not anticipated or  
12 expected to be able to go through there,  
13 unless they have permission from the  
14 property owner to go through their gate.

15 And, you know, I think maybe it's something  
16 to look at, just whether it's gated or not  
17 as far as whether it's restrictive or not.

18 MR. GILBERT: You know, that  
19 restricted and unrestricted about three  
20 weeks ago -- this is Danny -- I contacted

21 Bill Bocheck and asked him what his  
22 definition of restricted and unrestricted  
23 crossing was, and whether it was private,  
24 public or whatever. I didn't get a good  
25 reply, because I don't think they know, and

1 I saved the e-mails. I mean, have you  
2 talked to him about what they mean by  
3 restricted and unrestricted, because they  
4 couldn't explain it?

5 MS. CARROLL: It was CP rail that  
6 brought it up at the Minnesota meeting.  
7 They mentioned these new regulations that  
8 are about to come into place, and they  
9 mentioned the fact that they weren't public  
10 and private anymore, it was restricted and  
11 unrestricted.

12 MR. GILBERT: I will send you the  
13 e-mails then.

14 MS. CARROLL: Thanks, Danny.

15 MS. SPURLOCK: For that matter, do we  
16 have to wait on Canada? Can we do our own?

17 MS. CARROLL: Yes, we can do our own.

18 MR. FIELD: We're not in Canada, so.

19 MS. SPURLOCK: There you go.

20 MS. CARROLL: It's good to look at

21 what other folks are doing as well and what

22 the regulations are.

23 MS. SPURLOCK: But our definition of

24 that could be different, and that's okay.

25 MS. CARROLL: Would you have a



1 definition of a public crossing be the same  
2 that it is now, and then subdivide a private  
3 crossing by restricted and unrestricted, and  
4 then would you provide guidance for  
5 unrestricted private crossings?

6 MR. FIELD: I would think the  
7 applications are not necessarily based on  
8 restricted or unrestricted, because if you  
9 go with the gated issue on that, that's  
10 going to really affect the ADT issue, which  
11 is based on the engineering judgment to  
12 apply the crossing. If it's farm crossing,  
13 twice a year you are not going to sit by  
14 gated swing gate, you know, or something  
15 like that. And perhaps a sign if you have  
16 got an unrestricted crossing, say to a boat  
17 ramp, we have some of those, then you are  
18 going to look at that differently just  
19 because it's a much more used crossing.

20 MS. CARROLL: So you are talking about

21 a physically locked gate?

22 MR. FIELD: The existence of a

23 lockable gate.

24 MS. CARROLL: The existence of a

25 lockable gate.

1           MR. FIELD: We can't get into the  
2           business trying to police these gates that  
3           are required to be locked; however, the  
4           railroad is in a position, based on the fact  
5           they are on the corridor, to perhaps prevent  
6           the private crossing as a continual unlocked  
7           gate that's supposed to be locked.

8           MS. CARROLL: Okay. Any other  
9           categories? I added commercial to this.  
10          Any other types of crossings we want to --

11          MR. RIES: I was just going to go back  
12          to your question about, you know, should we  
13          change the definition of public crossing?  
14          And, you know, my initial reaction is that  
15          it might not be good public crossing from  
16          federal funding perspective has a very  
17          statutory requirement. So I don't think  
18          changing what's a private crossing now and  
19          making it "public" would be very confusing  
20          to start allocating funds. That's not to

21 say, you know, the decision is made that  
22 that's a good use of public funds through  
23 the use of private crossings, you know,  
24 that's a subject that probably could be  
25 explored. But I think you need to keep the

1 basic definition of what a public and  
2 private crossing is, and then make  
3 subcategories within private crossings.

4 MS. CARROLL: Okay. My question would  
5 then be: How many people or frequency of  
6 vehicles distinguishes a public from a  
7 private crossing, Ron? Or is there any?

8 MR. RIES: The number of vehicles does  
9 not have anything to do with distinguishing  
10 whether it's public or private crossing.  
11 It's who holds the roadways, whether it's a  
12 public authority owns the roadway on both  
13 sides of the crossing.

14 So there are private crossings that  
15 have much higher traffic than a public  
16 crossing, the ones that go into the Wal-Mart  
17 or big industry. That's why I think you  
18 keep that separate.

19 Now, the question is when do you get  
20 into a private crossing that's open to the

21 public access? And, you know, there's talk,  
22 maybe it's when there's a gate. I don't  
23 know. If I'm a property owner, I have a  
24 crossing that goes into my residence, would  
25 I want to have a gate in front of it? And

1 considering also then the exposure that how  
2 the person if you have to be on both sides  
3 of your right-of-way, you are crossing the  
4 track six times either on foot or on --

5 MS. CARROLL: To go and shut the  
6 gates, it seems like is there an open  
7 invitation to the general public to use it  
8 might be a category.

9 So that might fit in with the cement  
10 trucks. You don't expect the general public  
11 to be invited into that, my private  
12 residence. I don't expect that, but I am  
13 going to have my invitees, I am going to be  
14 having some other people that service my  
15 house, that type of thing.

16 So that might be another way of  
17 looking at it. Do you expect John Q public  
18 to come in? So the TV repair shop, since  
19 you would be expecting people to come in,  
20 drop off their TVs, would be open to public

21 use. Certainly it's not comparable to what  
22 you have with the Wal-Mart. So it's  
23 probably somewhere you need to make  
24 decisions, or you have different categories  
25 open to public access type of things.



1           MR. WORLEY: Let's just start with  
2 closing them all.

3           MS. CARROLL: Arthur mentioned that.  
4 Let's just start with closing them all.

5           What I'd like to do now is move into  
6 the engineering design piece of the  
7 discussion and look for suggestions as to  
8 what would be our minimum kind of  
9 engineering design for private crossings,  
10 and we can work through, you know, sight  
11 distance, we can work through geometric  
12 design, we can work through sign, signals,  
13 gates, and things like that and see where  
14 you think we need to go in this area,  
15 because there's no uniformity right now, as  
16 you saw from some of the pictures, some  
17 people are using stop signs, some people are  
18 using yield signs, high-speed rail crossings  
19 have their own sign, and there are gates out  
20 there. There's all sorts of things.

21           So I'd like to start the discussion  
22       with if we had money, and if we had  
23       resources to use the money, and we've  
24       collected all the data that we need, where  
25       would we go? What would be a minimum

1 traffic control device? How would you  
2 control access on private crossings? What  
3 would be the minimum? Would it be, Jason,  
4 you mentioned a yield sign versus a stop  
5 sign. Is there a consensus that we can get  
6 to for this kind of thing?

7 MR. WORLEY: I like the southern sign.

8 MR. SCHWARTZ: Stuart Schwartz,  
9 S-T-U-A-R-T, S-C-H-W-A-R-T-Z. You might  
10 have a hard time getting consensus, in view  
11 of the fact that I think three upper class  
12 ones now have stop signs that are all  
13 private crossings, at least one state,  
14 that's California, requires them. There's  
15 not necessarily uniformity in terms of the  
16 signs themselves, although Norfolk  
17 Southern's sign is very similar to BSF and  
18 UP signs. So that you got at least one  
19 state, and perhaps there are more, I'm not  
20 aware of any, but it's conceivable that

21       there are other states as well as that also

22       require stop signs.

23               So you may have some difficulty in

24       establishing any kind of consensus that's an

25       appropriate warning device, if you want to

1 call it that, the question whether or not it  
2 requires material crossings. Simply as a  
3 basic warning sign, you may have some  
4 difficulty with that.

5 MS. CARROLL: Do you have an  
6 understanding as to why those three class  
7 ones were stop signs based on some of the  
8 discussion earlier about heavy and long  
9 vehicles entering industrial sites that may  
10 need longer clearance types?

11 MR. SCHWARTZ: At the very least, if  
12 you require a vehicle to stop at a private  
13 crossing, you are giving him the opportunity  
14 to see whether a train is approaching. And  
15 I don't know precisely what phrase to use  
16 when you are stopped at a point when you  
17 could see in both directions and you can see  
18 whether or not a train is coming, that gives  
19 the driver an opportunity to avoid going  
20 across the crossing when the train is

21       approaching more so if there's a yield sign  
22       and the car was moving toward the crossing.  
23            I can't speak for any other railroads  
24       that have those, and given the fact that  
25       California has established that as their

1 criteria, there may be some support. I  
2 understand the highway organizations,  
3 generally speaking, are not in favor of  
4 using stop signs in broad scale.

5 MR. BROWDER: I have a hard time  
6 starting this discussion with the issue of  
7 if we had the money. I think the root part  
8 of the analysis is what is the safety issue,  
9 and addressing it from the perspective of  
10 what needs to be done to do the maximum for  
11 safety at private crossings, and we can  
12 certainly, I'm not saying money isn't an  
13 issue for everybody, but that's where our  
14 focus would be.

15 Now, I have a follow-up comment, which  
16 you kind of got him started on, old Stu, and  
17 I would make the comment that from a safety  
18 perspective, there is no difference in terms  
19 of sight distance for the public versus  
20 private crossing at passive crossings. And

21 that it is very well spelled out by FHWA and  
22 reiterate it in that October 2002 report for  
23 sight distance. And I see no reason why  
24 anyone should vary from that perspective and  
25 if they are going to put out any kind of



1 standards or practices for private  
2 crossings.

3 MS. CARROLL: Thank you, Bill. I'm  
4 going to go up to the board for a minute.

5 I'm trying to think of how we can  
6 organize this based on public crossings.

7 The first thing that we do is we close  
8 them, correct? That's the first approach to  
9 take for safety sake?

10 MR. GILBERT: I'll second that.

11 MS. CARROLL: Thank you.

12 What would it take and what's the  
13 difference between closing a public crossing  
14 and closing a private crossing?

15 MR. FIELD: Requiring the right-of-way  
16 to reroute the driveways, because if you  
17 cannot take along the railroad's  
18 right-of-way, you are taking it across.

19 MR. WORLEY: You can negotiate for  
20 private driveway, and the cost is what you

21 get them as a settlement. They have 90 days

22 to find another way.

23 MR. FIELDS: That's the difference

24 between private and public though.

25 MS. KLOEPPPEL: Don't you have some

1 issues about that, you close a public road  
2 you have to worry about providing access?

3 MR. FIELDS: There's a documented way  
4 to provide a right-of-way with public versus  
5 a private driveway, unless the state agency  
6 or municipal agency is going to maintain the  
7 roadway.

8 MR. WORLEY: We don't build roads for  
9 that purpose.

10 MS. CARROLL: What are some of the  
11 other issues that you found in your  
12 experiences that are public versus private  
13 to close crossings?

14 MR. WHITEMORE: Shane Whitemore with  
15 CSX. When you look at private road crossing  
16 closure versus public, it becomes public  
17 issue, and it turns to popularized issues  
18 that we talked about in Minnesota. It's not  
19 the state agent, I mean as Jason touched on,  
20 the state agency can come in and condemn and

21      make a public road for altering access.  
22      Those options aren't available between  
23      property rights issues between landowners.  
24      That's what we are, a landowner. The  
25      railroad right-of-way is owned, its title is

1 varied. It goes anywhere from fee simple to  
2 a straight license to operate through the  
3 property.

4 So when you look at property owners,  
5 it's just like Grady and I are neighbors,  
6 and I want to cross his property to get to  
7 Ron's place, right, Grady says go ahead,  
8 right. So at that point, you know, that's  
9 how I get through there. If he wants to  
10 close it, he says no, I'm not going to close  
11 it. You granted me the right to get to  
12 Ron's house.

13 So the state can come in and say we're  
14 closing it, right, we voted, you've elected  
15 us, so, you know, the city counsel has come  
16 in and we're closing Oak Street, we're going  
17 to put a cul-de-sac here, and this is where  
18 you go. The property rights issue, the  
19 owner says I'm not closing for anything.  
20 This is mine. I've got a right to cross

21       here.

22            So when you look at that, it becomes

23       harder to close them. You have to give them

24       money. You have to compensate in a

25       different way. You don't have the force of

1 law to say we're going to take it, so you  
2 got to come in and try to negotiate the  
3 closure and negotiate getting rid of that  
4 right. Norfolk Southern and other railroads  
5 spent money to do that, and, I mean, we all  
6 go out and do it. I don't want to speak for  
7 Norfolk Southern. That's the fundamental  
8 difference I see between a public and  
9 private closure. I know it's not  
10 engineering. I will wait to San Francisco  
11 to start talking. We are talking about  
12 rights issues.

13 MS. CARROLL: That's okay. We will  
14 say CSX said.

15 MR. PETTEWAY: One of the things he  
16 did mention was legislation. From a state's  
17 perspective, we have laws that allow us to  
18 close crossings. On private crossings, we  
19 don't have that. So we don't have that  
20 power.

21 MS. CARROLL: You need some sort of  
22 legislative support to be able to do that.  
23 Any other thoughts on closures?  
24 All right, so we have a private  
25 crossing. We can't close, but here it is.



1 It doesn't have any signs or signals on it.

2 Is that -- should that be allowable?

3 MR. WORLEY: If they don't use it  
4 much, one option may be gates and locks.

5 MS. CARROLL: So you want to put that  
6 as a possible access control?

7 MR. WORLEY: It's what we consider,  
8 one side.

9 MS. KLOEPPEL: That's if it's not used  
10 much.

11 MR. WORLEY: It's farm, seasonal,  
12 property for storage.

13 MS. CARROLL: Anybody else? We have a  
14 private crossing. We can't close. What  
15 would you like to see up there?

16 MR. FIELD: You start with a sign  
17 package. If there's something that you  
18 don't have the ability to investigate across  
19 the board in some states, like you were  
20 saying earlier, I don't think stop sign was

21 the way to go, although I thought I made

22 that point.

23 MS. CARROLL: Three class ones use

24 stop signs. You mentioned that you would

25 like to see yield signs?

1           MR. FIELD: In North Carolina, that's  
2           what we start with. The only way we put up  
3           a stop sign at a crossing is with an  
4           engineering violation site list. If it is  
5           determined by our division of traffic that  
6           it's not an appropriate use of the site  
7           issue, then we would go with a yield sign  
8           packet similar to what Norfolk Southern has  
9           been using, the low sign with the crossbucks  
10          and what not.

11          MR. COTHEN: Can I interject a thought  
12          or two on this? And I'm going to count on  
13          Mr. Ries, who was on the technical working  
14          group and others to bail me out when I  
15          overstep.

16          In that report on page 14, the group  
17          reported the Department of the  
18          Transportation's position, the Federal  
19          Highway Railroad Administration's position  
20          expressed in a memorandum that was widely

21 disseminated back in, oh, I don't know, this

22 was actually March.

23 MR. BROWDER: March of '96.

24 MR. COTHEN: I think earlier. And

25 what had happened was that we were getting

1 pressure from the transportation safety

2 board on stop signs.

3 We also had on staff a fellow named

4 Bruce George, who favored the use of stop

5 signs at highway rail crossings. And we

6 said -- we had conversation with Federal

7 Highway Administration and tried to drive

8 home the utility of a stop sign, and, of

9 course, there are a variety of

10 considerations that need to come into play.

11 But one of the questions that Anya was

12 trying to ask is: Is there a difference in

13 terms of the considerations that might apply

14 with respect to the selection of default

15 signage?

16 The considerations that were --

17 federal highway, federal rail suggested be

18 applied, this is in the public crossing

19 context, was that local and state police and

20 judicial officials commit to a program of

21 enforcement, no less vigorous than would  
22 apply on a highway intersection equipped  
23 with stop signs. That's a point that's got  
24 a double-edged sword. It might cut either  
25 way. Clearly, I have a program of

1 enforcement by public authorities of a stop  
2 sign at a highway rail crossing. However,  
3 it would establish a standard of care for  
4 the user, and to the extent the user is also  
5 made aware that it's private property, that  
6 may establish some degree of responsibility  
7 on the part of the user of the crossing.

8 The second was installation of a stop  
9 sign would not occasion a more dangerous  
10 situation. Taking into consideration both  
11 the likelihood and severity of highway rail  
12 collisions and other highway traffic risks  
13 than would exist with the yield sign.

14 And here, in my memory at least, what  
15 I was concerned was rear end collisions that  
16 can occur in a traffic stream. You place a  
17 stop sign, perhaps it's light rail traffic  
18 on the line, and people don't expect a  
19 train. And one out of three motorists  
20 decides to actually observe the stop sign,

21 and now we have proliferation of rear end

22 collisions.

23 One can argue that that's applicable

24 where you have commercial and industrial

25 use, particularly in mixed population. One



1 can argue that that consideration is  
2 inapplicable for likely used highway rail  
3 crossings.

4 There were then a number of  
5 considerations or conditions that were  
6 called out as indicating the use of a stop  
7 sign as being appropriate, higher train  
8 speeds, highway traffic mix, includes buses,  
9 hazardous materials, carriers or other large  
10 equipment, quite a few trains, passenger  
11 trains and so forth, including other  
12 geometry issues at the crossing. That might  
13 challenge the motorist in terms of picking  
14 out the train on approach.

15 Weighing against the highway is, other  
16 than secondary in character, recommended  
17 maximum of 400ADT in rural areas and 1500 in  
18 urban areas.

19 So one can argue to the extent that  
20 private crossings, ADTs are lower, that

21        maybe a stop sign would be less  
22        objectionable.  
23            The roadway's deepest ending grade to  
24        or through the crossing, sight distance in  
25        both directions is unrestricted in relation

1 to maximum closing speed and heavy vehicles  
2 use the crossing. Theirs may be more  
3 apropos of the reference of the difficulty  
4 of some heavy vehicles crossing but would  
5 argue against the stop sign.

6 Relatively contemporaneous with this  
7 document being published in the same general  
8 stream of discussion that was going on at  
9 FRA, we did generate closed private crossing  
10 guidelines. We noted that the states that  
11 had at that time acted to require specific  
12 signage for private crossings that opted for  
13 crossbuck and stop sign, and we suggested  
14 for discussion that that would be default  
15 signage.

16 Clearly, you know, there are  
17 circumstances where that doesn't work,  
18 shouldn't be applied. Clearly if you had  
19 the ability to do all the things you do on a  
20 public roadway it's probably not very smart

21 to start with mandatory yield and then  
22 option of stop sign. Don't get too many  
23 public traffic engineers out to these public  
24 crossings. It's one of our issues, so we're  
25 talking about a fairly complex calculus.

1 I just throw that in to further  
2 confuse anyone who isn't already.

3 MR. GILBERT: Typically, if you've got  
4 a private crossing, you've got a much lower  
5 automobile speed approach speed than you are  
6 at a public crossing, plus you are going to  
7 have, you know, probably surface treated or  
8 gravel treated approaches. So you are not  
9 going to be able to operate at 30 or  
10 40 miles an hour going across there. So I  
11 don't think you are going to have some of  
12 those issues as you would have at a public  
13 crossing stop sign.

14 MS. CARROLL: Thanks, Grady. That was  
15 really informative, because I had forgotten  
16 all that stuff.

17 MR. FIELDS: Grady, I agree with you.

18 MR. RIES: It might be useful if the  
19 railroads that do have a standard signage  
20 package, that they require or like to have

21 posted at their private crossings, if we  
22 could get a template of what the standard  
23 package is, what they look like so we can  
24 just compare with what the different  
25 railroads use.

1 MS. CARROLL: Anybody that has a  
2 standard suite of engineering designs for  
3 private crossings, if we could ask you to  
4 entertain us with whatever your views of the  
5 criteria, that would be very, very helpful  
6 in the process.

7 MR. RIES: Also, I think Oregon has a  
8 standard crossing sign package that they  
9 require in addition to California.

10 MS. CARROLL: I think California's  
11 just became binding, didn't it? Didn't they  
12 just pass legislation that included public  
13 as well as private?

14 MR. RIES: I'm not sure.

15 MS. CARROLL: Are there any special  
16 signs that anybody uses out there from this  
17 regional group? You mentioned the look both  
18 ways sign. I mean, does anybody say, you  
19 know, this is a private crossing, you know,  
20 you are not supposed to be here? Are there

- 21 signs that limit or supposed to restrict
- 22 public access? No public access? Do you
- 23 use that standard sign at all on private
- 24 crossings?
- 25 MR. BROWDER: There's no standard,



1 that's the point.

2 MS. CARROLL: Not for private  
3 crossings, but there are other standard  
4 signs. I'm saying did people use other  
5 standard signs?

6 MR. BROWDER: Yeah, but not that say  
7 private crossing.

8 MS. CARROLL: No, but might say no  
9 public access or restrictive use?

10 MR. BROWDER: I don't know. Where  
11 would that be?

12 MS. CARROLL: I don't know. I'm just  
13 asking the question.

14 MR. BROWDER: No, you are asking if  
15 there are signs. I'm saying there aren't.  
16 You can take the ones that are used in the  
17 MUTCD that may be applicable to private  
18 crossings, but there are no standards and  
19 practices for private crossing signs.

20 MS. CARROLL: That's correct. There

21 are no standards or practices, but does  
22 anybody use an MUTCD sign as part of their  
23 operating practice? A state or a railroad  
24 may use the look both ways sign or the yield  
25 sign.

1           MR. FIELD: We do have a location  
2           where we have a traffic signal, that's not  
3           prohibited. One of the legs is on a private  
4           road. We have got a sign there indicating  
5           stop at the stop mark on red, which is a  
6           standard MUTCD sign.

7           MR. RIES: I believe that the NSF  
8           private crossing sign indicates private  
9           crossing, no trespassing. So that would be  
10          useful.

11          Also a question that would be  
12          interesting to, you know, do the railroads  
13          also boast a emergency notification sign as  
14          part of their private crossing package? A  
15          1-800 number to report problems might be  
16          something to consider in a suite of signage.

17          MR. SCHWARTZ: I can tell you that  
18          Norfolk Southern does.

19          MR. CRUZ: One issue with signs that  
20          we have seen at several class one railroads

21 is that the crossing number to identify that  
22 particular location has faded, and a lot of  
23 times with the 1-800 number, the EMTs or  
24 emergency services have a hard time finding  
25 it, because the numbers are not on those

1 signs. The signs are actually not that  
2 good.

3 MR. RIES: I think over the years, the  
4 quality of the signage has improved as far  
5 as keeping the numbers there.

6 MS. CARROLL: Skull and cross bones?  
7 Anybody use skull and cross bones?

8 MR. RIES: Always expect a train.

9 MS. CARROLL: Always expect a train.

10 MR. FIELD: I always like the one on  
11 my e-mail, watch out for the damn train.

12 MS. CARROLL: How about those of you  
13 that have active devices at private  
14 crossings? I mean, you can consider a  
15 lockable gate active, it's sort of the users  
16 do the activity.

17 MR. RIES: Active is train activated.

18 MS. CARROLL: Well, there's an active  
19 with these people. Train activated private  
20 crossing. Anybody have any of those?

21 MR. CRUZ: They have some hump

22 crossings on the active side.

23 MS. CARROLL: Not on the passive?

24 MR. BROWDER: Well, all railroads that

25 have industries with new private crossings,

1 where there is any kind of substantial  
2 amount of vehicular traffic are going to  
3 require active warning devices in the  
4 agreement before they have -- give anybody  
5 authority for a new crossing. Shopping  
6 centers, sporting arenas. So that's a  
7 question that I can answer clearly they are  
8 all out there. There are limited numbers.  
9 And, again, we're not the highway authority.  
10 We are interested though in protecting our  
11 liability and our own people by ensuring  
12 that there is a significant level of  
13 protection provided to ensure safe operation  
14 over the crossings.

15 A good example happened twice at the  
16 same crossing in Kissimmee, Florida, where a  
17 private vehicle operated by the Kissimmee  
18 Power Authority was hit by an Amtrak train  
19 at a crossing with active warning devices.

20 MR. COTHEN: I thought it was

21 gentlemanly of you to leave out the part  
22 where the state police escorted them on to  
23 the crossing.  
24 MR. BROWDER: Florida State Police.  
25 MR. COTHEN: Florida State Police.



1 MR. BROWDER: And videotaping it.

2 MS. CARROLL: So Bill, when the  
3 railroads negotiate with industry, is it  
4 just based on volume of vehicles or type of  
5 vehicle as well? I mean, if you are dealing  
6 with --

7 MR. BROWDER: It's probably all of the  
8 above. And quite frankly, I would say there  
9 are many different aspects to be included,  
10 and usually the railroads that I'm familiar  
11 with, some of them even will use highway  
12 authority consultants to give them a  
13 perspective on what would be safe as far as  
14 warning devices are concerned.

15 MS. CARROLL: So do you know of  
16 anybody that has like a standard checklist  
17 of items that they hadn't addressed as they  
18 go through this negotiating contract?

19 MR. BROWDER: Yeah, the railroads have  
20 a standard -- not a standard checklist, but

21 they have a checklist, proprietary checklist

22 that they use.

23 MR. FIELD: In North Carolina, we

24 apply the same standard to a public use

25 private crossing that the railroad is

1 requiring signals to be engaged that we  
2 would of a private road.

3 MS. CARROLL: You use --

4 MR. FIELD: As far as pavement  
5 markings, warning signs, we require the same  
6 applications, but the issue we run into is  
7 we don't have the authority; the railroad  
8 does in that case. And what we'll do is we  
9 will work with the railroad as well as the  
10 developer and their consultants to determine  
11 what -- based on what plans they need to  
12 send to the railroad, the railroad engineer,  
13 the railroad still installs them just like  
14 they do on any crossing signal project.

15 MS. CARROLL: Any other topic or items  
16 to list under train activated warning  
17 devices at private crossings? How about  
18 ITS? Anybody ever use any ITS? I know in  
19 Minnesota they had the C3 product or  
20 whatever that they tried. I don't know if

21 they just demonstrated and that's it.

22 MR. BROWDER: There's nothing out

23 there that doesn't require an FRA waiver,

24 and quite frankly, the issue of failsafe

25 operation that have concern for meeting the

1 FRA guidelines where appropriate, has always  
2 been a concern for the railroads.

3 MS. CARROLL: How about grade  
4 separation?

5 MR. BROWDER: How about what?

6 MS. CARROLL: Grade separation at  
7 private crossing? Anybody done that?

8 MR. BROWDER: I'm sure it's been done,  
9 but it's so expensive that it's rare, and in  
10 many cases about the only times that that is  
11 going to occur is with a little help from  
12 our friends at the state that are interested  
13 in attracting a major industrial partner.  
14 And an example I can think of is Virginia,  
15 Coors Beer. I'm sure there are others, but,  
16 you know, when you expect to spend anywhere  
17 from five to \$25 million for an overpass or  
18 underpass, there's got to be a significant  
19 reason to do that at a private crossing.

20 MS. CARROLL: Coors didn't want to

21 spill their beer.

22 Do you have something to say?

23 MR. WHITEMORE: No, I was just going

24 to reiterate the same thing that Bill said,

25 is that we require a major food

1 distribution, you know, we had the example  
2 North Carolina DOT out in Asheville, we  
3 required Winn-Dixie to put an overpass in  
4 which they constructed at their expense a  
5 silica mining operation that required an  
6 overpass that still requires us to give them  
7 some property right easement to put the  
8 footers in across the railroad and stuff.  
9 We have to work those issues out. Very,  
10 very rare that somebody wants to spend the  
11 money.

12 MS. KLOEPPPEL: I guess I'd like to  
13 interject, if I could. I hear loud and  
14 clear that there are a lot of considerations  
15 that you think are identical for public and  
16 private crossings, such as the needs for  
17 sight distance and the need for consistent  
18 work profiles. But are there engineering  
19 and design considerations that maybe could  
20 be different at private crossings as opposed

21 to public? We've talked a lot about the  
22 signs, but we haven't really talked a lot  
23 about road design and intersection design.  
24 Realistically speaking, we're probably not  
25 going to be able to rebuild every private



1 crossing to a public roadway standard. Are  
2 there nevertheless some kind of guidelines  
3 that we can work toward?

4 MR. FIELDS: Jason Fields, NC DOT  
5 again. There are a lot of varying degrees  
6 of designs and construction of private grade  
7 crossings. There are some, you know, I  
8 drive a Suburban, and we are out doing these  
9 things in these locations. It scares me to  
10 death to cross the tracks, because I can't  
11 see anything. I think there should be some  
12 guidance as far as supplying an appropriate  
13 roadway width for a designed vehicle. You  
14 know, if it's a residence, it obviously  
15 would be a 24-foot wide crossing. Whereas,  
16 if you have a distributor, where you have  
17 trucks on it, it would probably be 26 or 28  
18 is the minimum for a two-lane crossing.

19 In addition, pavement depths vary  
20 greatly. You know, that's another issue.

21 Generally, across the tracks, you have  
22 asphalt, which is whatever the height of the  
23 rail is, but then as you taper out get off  
24 the edge of the ballast line, that pavement  
25 runs down to nothing. And it depends on who

1 the road master is, I think, as to what kind  
2 of ramification on the edge of the asphalt  
3 crossing. I think as a general guideline  
4 for a single-lane crossing, there should be  
5 nothing, in my opinion, less than 13-foot  
6 wide, just for a one-lane crossing, and  
7 that's with minimum, I think what any of  
8 them should be. You know, preferably you  
9 would want something 20 to 24-foot as far as  
10 the width of the crossing, just so you don't  
11 have people getting hung up on rails late at  
12 night, been at the bar or whatever else we  
13 all know that people generally do before  
14 they go and cross that crossing near their  
15 house.

16 And as far as pavement width, I think  
17 they should be controlled basically for ease  
18 of maintenance of railroad. Generally,  
19 there's a contractor that's putting that  
20 pavement in. The more that pavement

21       deteriorates, the more they have got to deal

22       with it.

23               We heard this morning that there's

24       issues with possible litigation from private

25       crossings and things of that nature.

1           You know, as far as approach, I would  
2 suggest, you know, a typical standard we  
3 used for signals and gates would be 15-foot  
4 offset. I think that's a reasonable  
5 distance to determine the pavement for  
6 approaches. So you have got a nice  
7 transition you got made from asphalt the  
8 whole time, versus going through gravel as  
9 you go up the ballast line. It's not really  
10 a good idea to have your back tires on a  
11 gravel approach if somebody decides to gun  
12 it because they see the train coming around  
13 the corner.

14           MS. KLOEPPPEL: Does anyone else have  
15 any other suggested considerations that  
16 would make a private crossing different from  
17 a public as far as engineering?

18           MR. PETTEWAY: I'd like to say  
19 something. I think for us, meaning DOT  
20 engineers, it's really hard for us to say

21 anything that's outside of state standards.  
22 I think in all aspects, when you have a  
23 private road that's at some point in time is  
24 going to be a state road, most generally you  
25 are going to find them wanting to build to

1       whatever standard, it may be the state  
2       standard or municipal standard, where  
3       somebody can take over the maintenance.

4             So in a lot of cases, I think from our  
5       perspective, we are going to want to see it  
6       built to state standards, so at some point  
7       in time it can't be taken over.

8             Now, there have been times where the  
9       municipality will take over, and their  
10      standards would be what we would require.

11      That may be a change there, but I really  
12      don't know from a state standpoint. I don't  
13      think we can look at anything that was less  
14      than what we would require.

15             MR. RIES: Do there need to be  
16      different design standards for the different  
17      types of crossings?

18             MR. FIELD: You would need two, I  
19      think, just for a single driveway. You are  
20      not going to necessarily have the same width

21 requirement you would for Long Beverage. So

22 I would say we don't have more than two

23 standards for that kind of thing.

24 MR. PETTEWAY: Right.

25 MR. WHITEMORE: Jason, that would be



1       assuming that you are driving a car over on  
2       it, but if you were having a tractor going  
3       across, you would have a different standard  
4       of a tractor going across the field from  
5       side to side versus an automobile.

6           MR. CRUZ: Or a tractor trailer --

7           MR. FIELD: Tractor trail there --

8           MR. WHITEMORE: The resident has a  
9       tractor trailer. The reason, I'm asking,  
10       you said there only should be two standards.  
11       I'm kind of saying let's kind of revisit  
12       that and say well, what's the use.

13          MR. FIELD: I think one issue you  
14       don't want to get bogged down with too many  
15       standards to pick from. If you are looking  
16       to have a relatively simple process for  
17       application across the board, you know,  
18       we're fortunate in North Carolina, we have  
19       got to look at stuff we do very often, maybe  
20       take the worst case scenario. Assume, okay,

21 the vehicle, maybe a tractor trailer for a  
22 single residence, what do you need for that?  
23 And, you know, use that as your narrower  
24 standard, if you will. If there's a larger  
25 standard, have a minimum requirement for a

1 two-lane road. If you have got a guard  
2 house going into a facility and a lane on  
3 both sides, obviously it's going to be eight  
4 feet wider to incorporate the fact that the  
5 guard house is on the other side. There's  
6 going to be exceptions to these rules  
7 anyway, as there always are. That's why we  
8 all have jobs.

9 MR. WHITEMORE: Me too.

10 MR. FIELD: Yeah, but perhaps maybe  
11 the two standards you should look at is  
12 single lane versus multilane and have a  
13 certain width generally off the cuff. If  
14 somebody says they are building a house on  
15 the other side, what do you all require?  
16 There's a general guideline well, if there's  
17 a tractor trailer and say somebody buys a  
18 house years down the road, and they own a  
19 truck, you know, if you run into that issue,  
20 maybe you use the worst case scenario of

21 that.

22 MR. CRUZ: The question I would have

23 is the standard that you talk about now

24 developing, is it for crossings that exist

25 already, or for new crossings that they are

1 planning to put in? Because if you are  
2 trying to build the standard based on  
3 existing crossings, the vertical clearance  
4 alone, and to be able to change that from  
5 the private stand point or requiring  
6 somebody to do that will be cost  
7 prohibitive. Most private crossings, I  
8 would say the ones that we visited, have I'd  
9 say 90 percent of them have to have a  
10 vertical clearance issue, and how are you  
11 going to address that?

12 MR. COTHEN: FRA is progressive and  
13 proven in railroad safety. I mean, I think  
14 realistically we all have to be talking  
15 about perhaps a gold standard for new  
16 crossings, both in terms of showing the  
17 necessary, if they are suitably configured  
18 by engineering, and what's realistic in  
19 terms of remediating acute problems out  
20 there with other crossings where there's a

21 long history of use and subtle expectations.

22 MR. YOUNG: George Young, NCDOT. If

23 we were able to establish standards for

24 these railroad crossings, how in the world

25 are we ever going to enforce them?

1           MR. COTHEN: Danny left because he can  
2           get out the draft of the guidelines. I  
3           can't believe we are this deep into this  
4           second meeting this just coming up. Tell  
5           the railroad to barricade the crossing. I  
6           mean, that's effectively what you would have  
7           to do if you had a federally led program.

8           MR. YOUNG: Who is going to be out  
9           there to determine whether or not any  
10          particular crossing, whether it's new or old  
11          crossing, meets the prescribed standard? Is  
12          it going to be the railroad's  
13          responsibility?

14          MR. COTHEN: State inspector.

15          MR. YOUNG: That's where I was afraid.

16          MR. COTHEN: That's an excellent  
17          question, and one that would have to be work  
18          out.

19          MR. BROWDER: That goes back to the  
20          program that I mentioned, that CSX has, and

21 the frustration that the railroad had in  
22 trying to implement some kind of programs  
23 where they did close crossings, which was  
24 completely negated in some locations by  
25 local judges issuing orders for them to



1       reopen the crossing. That's exactly what  
2       they tried to do.

3           MR. WHITEMORE: Just facts around  
4       Bill's statement, just so we understand the  
5       magnitude of the issue. We have 9,800 and  
6       change private crossings out there. We have  
7       680 agreements, okay? So when you look at  
8       were they are there and the rates that the  
9       people have, you know, now we are  
10      researching our deeds. We are trying to  
11      figure out if we give them a deed of right  
12      to somewhere, as we look through each one of  
13      these, I can't imagine we would have two or  
14      3,000 deed of rights for crossings, just  
15      assume 6 or 7,000 people, we have to  
16      litigate or pay off whoever, to get the road  
17      crossings closed or whatever, if we don't  
18      need them, it becomes a huge problem. And  
19      get them to sign an agreement if we do need  
20      them, you are crossing our property, we have

21 the expense and liability of that crossing  
22 being in place, what's your responsibility  
23 as a private owner as you come up with these  
24 guidelines, these standards for  
25 construction? Who is going to bear that

1 cost? And, you know, we keep coming to that  
2 well, barricade them. I say okay. This is  
3 a Shane Whitemore, not a railroad CSX  
4 perspective, if you say barricaid, that's  
5 what I wanted to do all along, going back to  
6 option one, just close it. It didn't have  
7 the right of clearance, didn't have the  
8 right to issue, I just wanted to close it  
9 anyway. We don't want it there.

10 MR. COTHEN: I just want to emphasize  
11 from the Federal Railroad Administration  
12 point of view, that kind of option has been  
13 discussed for legitimate safety reasons, and  
14 that is that, you know, these collisions  
15 derail trains and they harm employees and  
16 potentially a danger to the surrounding  
17 community. And even where the only person  
18 hurt is whoever is in the motor vehicle, and  
19 that's something that we want to avoid at  
20 all costs, which is why -- not all costs --

21 but every reasonable cost, which is why  
22 Miriam started with the statistics on the  
23 deaths at private crossings, but even when  
24 we don't get to that point, very often, you  
25 know, you traumatize railroad employees who

1 have been subjected to the event  
2 involuntarily, not something that they could  
3 have done anything about. And that's  
4 something that we usually don't have to  
5 raise from an FRA standpoint, because labor  
6 organizations will be the first to do so  
7 because their members are those at risk.

8 MS. SPURLOCK: Just two comments I  
9 wanted to make regarding municipality.

10 What I've seen in private crossings is  
11 the phenomenal costs involved, because some  
12 of these are around curves and things that  
13 would cost millions just to blow out the  
14 mountainside to give the municipality the  
15 approach. So that's something we would have  
16 to consider there, and also the single  
17 versus the multiple lanes. I've seen old  
18 probable dirt roads that were just paved  
19 over in communities in private crossings but  
20 they are only one car wide.

21           So if you set a new standard for  
22   private crossings being two lanes, what did  
23   you just do to the thousands of roads in all  
24   communities that are one-lane wide?  
25           MR. FIELD: I think one issue in

1 speaking to that -- we are only looking at  
2 two issues here -- one is protection of the  
3 crossing, and the other one is the designs  
4 that the crossing is put in at. If you  
5 drive all over probably any state and as the  
6 design changes have changed over time, you  
7 don't see the state agency and city agency  
8 go back and widening everything from the  
9 ground up. If we apply the new standard to  
10 utilize, it would be, you know, something I  
11 think should be applied on project, as they  
12 occur, as they are able to be addressed,  
13 because, you know, we have got plenty of  
14 roads out here that are 18-foot wide, even  
15 though our current pavement standard is 26,  
16 and you get up in the mountains, there are  
17 some places you have got 14 if you are  
18 lucky.

19 And, you know, I think perhaps the  
20 biggest thing to look at is the protection

21 of the cross itself. I mean, that's kind of  
22 a standard. We've taken on projects here in  
23 North Carolina on treating the existing  
24 condition as it is, but as we are getting  
25 into this private crossing issue, I think



1 it's important, as you all raised, to look  
2 at the engineering construction of the  
3 private crossing. And if a developer is  
4 going in to develop a thousand home  
5 community, which we have all over this  
6 state, there should be a standard he is held  
7 to that the railroad can lean on and say  
8 well, you know, according to FRA, this is  
9 what's required. This is not just ours,  
10 although we currently use that practice.  
11 But I think the biggest thing is look at the  
12 protection of the crossing and as a  
13 secondary have a standard to be utilizing  
14 private crossings can be addressed when  
15 feasible, when there's money available or  
16 when things change there that can be applied  
17 to that; not going out there and force  
18 everybody to change it today because of this  
19 new policy that's out.

20 MS. CARROLL: I have one other

21 thought. Back in 2003, we had a research  
22 needs workshop that FRA sponsored and we  
23 brought together universities, railroads,  
24 states, industry people, suppliers and we  
25 talked about what research needs there would

1 be for grade crossings. One of the topics  
2 that surfaced was limiting the access to  
3 railway lines, that was a topic of research.  
4 What I'm hearing is that the rail ways would  
5 love to have the ability to say you can't  
6 cross my tracks, because I'm under this  
7 criteria if I've got 50 trains a day and I,  
8 you know, such and such conditions, speeds  
9 of, you know, 90 miles an hour, let's not  
10 build a grade crossing here.

11 MR. YOUNG: Can't they do that anyway?

12 MS. CARROLL: I would divert to Grady  
13 on that one. But it was a research topic  
14 that came up that just came to mind based on  
15 the comment that CSX made.

16 MR. WHITEMORE: We didn't talk to him.

17 MR. STAYTON: That was Shane, that  
18 wasn't CSX.

19 MR. BROWDER: No, she's talking about  
20 other stuff.

21 MS. CARROLL: Grady, do you know of

22 any way that a railroad can ask for limited

23 access and to control access to their

24 crossings?

25 MR. COTHEN: Well, some of these folks

1 who deal with this on a daily basis can  
2 answer more specifically. But, you know, I  
3 think what we're facing here is, you know, a  
4 variety of state laws. We had one in the  
5 Midwest where an agricultural crossing can  
6 be demanded, unless we provide it in one of  
7 the states in the Midwest.

8 In some cases, particularly in the  
9 east, railroads are operating over  
10 easements, and the fee holder can be  
11 determined. They may have some residual  
12 right to demand access to cross the railroad  
13 et cetera, et cetera. I think it's  
14 infinitely complicated from a property law  
15 standpoint. You know, if we were to  
16 regulate in the area, we would regulate on  
17 the basis of safety, and under the commerce  
18 clause in the interest of getting trains  
19 over the railroad safely, and that would be  
20 our focus, and the costs would fall where

21 they may. You know, I can't imagine FRA

22 trying to determine how the costs would be

23 distributed.

24 MR. WHITEMORE: Except my

25 understanding talking with New York DOT,

1 that on their high-speed corridors they  
2 either have passed legislation or are in the  
3 process of working on legislation that says  
4 on a high-speed corridor, for safety reasons  
5 would take over denying or have a crossing  
6 removed, private crossing removed.

7 MR. RIES: I was thinking that's  
8 probably the only, from an FRA legislative  
9 regulatory perspective, would be our safety  
10 standards for high-speed trains, where  
11 crossings cannot be at 125 miles an hour or  
12 greater, there might be a hook there if you  
13 had a high-speed area and came and wanted to  
14 put in a crossing.

15 MR. WHITEMORE: I think that's what  
16 they've done, passenger high speed.

17 MS. CARROLL: Any other comments or  
18 questions, engineering design, anything in  
19 general?

20 MR. YOUNG: I guess I might just

21 question whether or not that's something you  
22 need to look at beyond classifying crossings  
23 for protection purposes. In other words, I  
24 thought we were here today to find out what  
25 kind of protection to provide existing



1 crossings and not to maybe establish a  
2 standard for construction.

3 MS. CARROLL: I think the charge was  
4 everything and anything that we can hear.  
5 So I think it's open to any inquiry, any  
6 safety discussion. With that, I'm going to  
7 turn it back over to Grady. I'm done with  
8 my piece.

9 MR. COTHEN: What I'd like to do is  
10 I'd like to ask parties if you would think  
11 about another one of these three dimensional  
12 things. We have got issues working here  
13 related to characteristics of, other than  
14 public crossings, which we will call private  
15 crossings for the heck of it, and these are  
16 crossings that our colleagues in the state  
17 DOT don't have full control over for one  
18 reason or another, and we refined some  
19 categories of private crossings that we  
20 began to etch out in Minnesota, and we will

21 feed that back and put that in the docket.

22 We talked about possible needs for

23 closure or basic signage, more advanced

24 signage, perhaps grade separation as

25 warranted. We've heard that all of those

1 really are relevant issues already in the  
2 field. And we noted that there are a  
3 variety of documents, resources available  
4 from the public crossing side that may  
5 provide guidance maybe on all fours, as we  
6 say in legalese, with the private crossing  
7 side, or it may not require distinctions to  
8 be made.

9 There's one aspect of this that we  
10 mentioned only in passing, and one of the  
11 reasons that we have such close association  
12 and only one with North Carolina DOT is  
13 their leadership in the high speed passenger  
14 service business, the sealed corridor  
15 project. And what they've shown is  
16 necessity of moving out with innovative or  
17 elaborate treatments to deal with not only  
18 the exposure to persons using the roadway,  
19 but also the exposure of passengers on  
20 trains. That's kind of the extreme example.

21           And in the northeast corridor, by the  
22           way, Washington and New York, each and every  
23           highway rail crossing, public and private,  
24           has been removed because of safety  
25           considerations on the passenger train side,

1 and a great deal of effort was put in to  
2 removing each and every crossing in Boston  
3 with only, I believe, 12 remaining in the  
4 state, all of which have very elaborate  
5 treatments. Some of them having elaborate  
6 treatments.

7 So another dimension for consideration  
8 is the degree of activity on the rail side,  
9 the speeds involved which drives accident  
10 severity both on the highway and the rail  
11 side and the mix of activity, freight,  
12 passenger, hazardous material and so forth.

13 And as we talk about what may be warranted,  
14 what may be standard in these circumstances,  
15 certainly we would want to take into  
16 account, as we consider the effective and  
17 proportional use of both public and private  
18 sources would be the degree and risk at the  
19 crossing related to the nature of the rail  
20 operation.

21           So that turns into a pretty elaborate  
22           and complicated set of public policy issues.  
23           And what you all need to do, don't do it  
24           while you are driving at home, keep your  
25           mind on driving, if you are taking public

1 transportation or perhaps sitting on the  
2 front porch with some ice tea this  
3 afternoon, if you have further thoughts  
4 about that subject or as a team, for  
5 instance, we can get the North Carolina DOT  
6 to get back together after the meeting and  
7 have another brainstorming session, we would  
8 love to have your thoughts, not only with  
9 regard to how you think things ought to come  
10 out, but as we've done today in several  
11 instances, what further inquiry you think we  
12 should make before we make any suggestion on  
13 behalf of the affected communities as to  
14 what direction we ought to go.

15 Okay. This is a big job, and I think  
16 we've had a good day in Raleigh. And is  
17 there anybody else who feels like they  
18 haven't had a chance to speak about their  
19 issues today before we move on, adjourn,  
20 that is?

21           Well, if not, the docket will remain  
22   open, and you are certainly invited to  
23   contribute.

24           We thank North Carolina DOT for their  
25   guidance and help to arrange the facility



1 and the day and helping us lead on. We  
2 thank everyone who has been in attendance  
3 and is in attendance for their participation  
4 in the meeting, and I'm going to go home and  
5 tell my bosses that the railroad showed up  
6 and talked, so everybody can relax.

7 With that, this public inquiry is  
8 adjourned.

9 (Whereupon the hearing was concluded  
10 at 3:17 p.m.)

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While traveling in Austria we were driving to the rail station via automobile. There was a cassette tape in the radio. All of a sudden the tape stopped playing and a voicer came over the radio warning about the recent rain that has caused mudslides. The voice stated that some highways and rail lines were closed due to this.

If this system works in Austria for emergency weather reports it could surely work in the good ol USA concerning approaching trains at private rail crossings. The railroads, communication and electronic experts can work out the details. This system would save lives warning motorists via radio, cell phones or navigation systems. Navigation systems would contact only the few who have the systems along with the radio but just about everyone has a cell phone on when they are driving.

Missouri  
Department  
of Transportation



Pete K. Rahn, Director

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October 6, 2006

Mr. Ron Ries  
Office of Safety  
Federal Railroad Administration  
1120 Vermont Avenue NW  
Washington DC 20590

FEDERAL RAILROAD  
ADMINISTRATION  
2006 OCT 19 AM 11:45  
OFFICE OF THE CHIEF COUNSEL

Re: Private Crossing Discussion Comment Period on FRA Docket No. 2005-23281

Dear Mr. Ries:

I am unable to attend the various hearings held around the country that involve safety inquiries for the various issues at private railroad crossings. I would like to submit the following comments on private crossings to be included in the compilation of comments that you receive. This is an issue that deserves attention and I salute the FRA for beginning the discussion on this important issue.

In our state, we have about 7,000 total crossings of which about 3,000 are private crossings. Private crossings in our state vary tremendously and defy a single description. This is because the vehicle traffic over the crossing could be anything from an isolated farm crossing used every few years by a lone tractor to a heavily used commercial business park used by hundreds of cars, delivery vehicles and commercial vehicles every day.

Our state statutes give us limited jurisdiction and options of what to do with private crossings, and federal laws and regulations on the subject of what procedures states should adopt are extremely limited in this area. We do investigate every fatality at a private crossing in our state, but our powers to attempt to remedy the private crossing after the accident or to prevent further accidents are unclear, mostly untested, and are not satisfactory in terms of designing an overall policy for all private crossings. Our state crossing inventory system does have subcategories of private crossings, which are private-farm, private-industrial and private-recreational. However, there are many crossings that do not fit neatly into any of these categories, and many change from one to the other without notice. Our inventory system is also devoid of much information on these crossings, as most have no information on vehicular traffic counts, signage requirements are unknown or vary widely, and even the name of the road may be unknown or may change from time to time.

Our mission is to provide a world-class transportation experience that delights our customers and promotes a prosperous Missouri.

Other problems with private crossings include: There is often no formal agreement between the landowner and the railroad establishing the crossing and no record of one, which leads to fights over when and if the crossing can be closed, the lack of consistent upkeep on crossing surfaces and whose responsibility it is to do so, and the variation on names used by our section, the landowner and the railroad on exactly what to "call" the crossing.

I would submit that as a place to start, private crossings have a definite "flow-chart" on how they are created, operated and maintained so there is at least a standard to follow, which I realize will not incorporate all of the existing private crossings, but at least would give a scenario to follow for best practices.

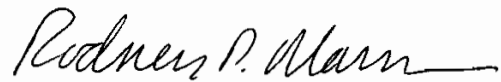
Then more importantly, there needs to be at least proposed a plan to further explore grouping of private crossings into further explanatory subcategories, and in addition that those subcategories would have specific requirements or procedures the landowner and railroad must follow in their dealings with these crossings. For instance, a category of "commercial crossing" would mean that although there is no public road over the crossing, the public is generally allowed to access the crossing and is in legal terms an invitee. This would encompass businesses, factories, amusement parks and the like that regularly build across railroad crossings and invite the public in for their own profit or as a way to do business. These types of crossings should have specific requirements put upon them such as those presently in effect for quiet zones that if there are accidents at the crossing, steps must be taken to make the crossing safer. Another category could be "restricted private crossings" in which the landowner has taken steps such as a locked gate at least certain times of the day or night to restrict access to the crossing, which in turn could provide incentives to the landowner and the railroad to restrict access to the crossing, which now there is no incentive for any party to do this. In return for the restriction and an ongoing commitment from the landowner that traffic over the crossing would be closely regulated, perhaps there could be some form of liability relief or relief from improvements being ordered. The private farm crossing category designation should also be explored and should also mean that the crossing really is a private farm crossing, not one that used to be a private farm crossing a few years ago and is now a business or home access. There should also be discussion of a notification requirement on the landowner and the railroad as to when the status changes, that they be required to notify their state railroad agency of record and the FRA, and that there be penalties assessed if this is not followed correctly. Lastly, serious consideration should be given to a uniform signage system for all railroads at all private crossings and a uniform rule on when or if the train whistle may be blown at a private crossing, as many railroads today will not blow the whistle if a crossing is private for any reason, (even if our agency requests it) although some will do so in certain circumstances.

Strictly speaking, there are now very little guidelines as to how private crossings are first made, how they are categorized and how they are changed. Unless and until there are some basic guidelines as to these issues, there will always be unsafe crossings that are regarded by the public as open to the public (and therefore impliedly approved by state and federal authorities) but in reality are private crossings much beyond the regulation of those entities.

Mr. Ron Ries  
October 6, 2006  
Page 3

Thank you for the opportunity to comment and I look forward to hearing more about this issue in the coming months as your studies and public hearings go forward.

Sincerely,

A handwritten signature in cursive script that reads "Rodney P. Massman". The signature is written in black ink and includes a horizontal line at the end.

Rodney P. Massman  
Administrator of Railroads  
Missouri Department of Transportation

C: Lisa Lemaster-ga

j:\massmr1\Private crossing concerns.doc

Michelle Silva

To the FRA Private Highway-Rail Grade Crossings Task Force

We are an operating railroad museum with part of our interpretive charter to display historic railroad crossing devices. The implications of the proposed task is to explore the establishment of forms of uniform standard warning devices. These could preclude the use of historic crossing warning devices in one of the last environments they can still be installed and displayed for historic purposes, i.e. the private railroad crossing. They cannot be used for public highway railroad crossings any longer. Yet the historic crossing devices still need to function in the environment they were created for to be historically interpretive. Many of the other issues of private crossings are of concern to us also but this comment focuses on the single issue of restricting the use of historic crossing warning equipment and devices for private railroad crossings.

Thank you

Steve Rusconi

Signal Department

Pacific Locomotive Association

Niles Canyon Railway

BEFORE THE UNITED STATES DEPARTMENT OF TRANSPORTATION  
FEDERAL RAILROAD ADMINISTRATION  
WASHINGTON, D.C. 20590

Safety of Private Highway-Rail Grade  
Crossings; Notice of Safety Inquiry

Docket No. FRA 2005-23281

**COMMENTS OF THE  
CALIFORNIA PUBLIC UTILITIES COMMISSION  
OF THE STATE OF CALIFORNIA**

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October 26, 2006

#254727

Docket No. FRA 2005-23281



## INTRODUCTION

The California Public Utilities Commission (CPUC or Commission) exercises rail safety oversight over railroads in California under the California Public Utilities Code and under the State Participation Plan with the Federal Railroad Administration (FRA), 49 Code of Federal Regulations (CFR), Parts 212.1 et seq. The CPUC also has exclusive jurisdiction over rail crossings within the state. Specifically in regards to private crossings, CPUC has the authority to determine the necessity for any private crossing and the place, manner, and conditions under which the crossing shall be constructed and maintained, and to fix and assess the cost and expenses.<sup>1</sup>

The Commission's General Order (G.O.) 75-D (administrative rules governing the standardization and use of warning devices at highway-rail crossings) has an entire regulation directed at warning devices at private highway-rail crossings. It requires a minimum of a STOP and "PRIVATE CROSSING" signs posted on each approach to a private highway-rail crossing.<sup>2</sup> It also requires a written agreement between the railroad and the party requesting the crossing.

The text of G.O. 75-D pertaining to private crossings reads:

### **7. PRIVATE AT-GRADE CROSSINGS**

7.1 Pursuant to Public Utilities Code Section 7537, the Commission has the authority to determine the necessity for any private at-grade crossing and the place, manner, and conditions under which the at-grade crossing shall be constructed and maintained, and to fix and assess the cost and expense thereof. The Commission exercises such

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<sup>1</sup> California Public Utilities Code §7537: The owner of any lands along or through which any railroad is constructed or maintained, may have such farm or private crossings over the railroad and railroad right of way as are reasonably necessary or convenient for ingress to or egress from such lands, or in order to connect such lands with other adjacent lands of the owner. The owner or operator of the railroad shall construct and at all times maintain such farm or private crossing in a good, safe, and passable condition. The commission shall have the authority to determine the necessity for any crossing and the place, manner, and conditions under which the crossing shall be constructed and maintained, and shall fix and assess the cost and expense thereof.

<sup>2</sup> General Order 75-D Section 7 pertains to private at-grade highway-rail crossings. The General Order is available on line at [http://www.cpuc.ca.gov/PUBLISHED/GENERAL\\_ORDER/60157.htm](http://www.cpuc.ca.gov/PUBLISHED/GENERAL_ORDER/60157.htm).

jurisdiction when it is either petitioned by one of the parties or Commission staff.

The establishment of a private at-grade crossing, other than a private at-grade crossing of the railroad tracks by the owning railroad, must be authorized through a written agreement between the railroad and the party requiring the crossing.

*Standard 1-X.* "PRIVATE CROSSING" sign shall be installed at all private at-grade crossings. See Figure 6 for additional specifications.

- 7.2 At all approaches to private at-grade crossings there shall be installed either a STOP sign (defined as a Standard R1-1 in the CA MUTCD) or an automatic warning device described in Sections 6.2 through 6.6.
- a) If a STOP sign is used, the Standard 1-X sign shall be mounted on the post below it.
  - b) If a Standard 8, 8-A, 9, 9-A, or 9-E device is used, the Standard 1-X sign shall be attached to the mast of the warning device below the flashing light signals.
- 7.3 The language contained in the lower portion of the "PRIVATE CROSSING" sign shown in Figure 6, commencing with and including the words "No Trespassing", shall be permitted at the option of the railroad.

The CPUC respectfully submits these comments regarding the FRA's Safety of Private Highway-Rail Grade Crossings; Notice of Safety Inquiry, on behalf of the CPUC and the people of the State of California. In this document the questions listed in the FRA's Notice of Safety Inquiry are shown in *italics*; they are followed by CPUC comments.

### **BACKGROUND**

Private crossings carry most, if not all, safety concerns that public crossings have. Collisions can and do occur that cause delay, property damage, hazmat spills, injury and death. The parties involved in the establishment and use of private crossings must be cognizant of the potential incidents which could occur at such crossings, and, where appropriate, government should exert safety authority to assure such risks are eliminated or minimized.

The following are two recent examples of railroad-motorist collisions at private crossings that affected public safety. CPUC Staff addressed safety concerns for each crossing with the property owners, railroads and public authorities, which will result in crossing upgrades:

**Example 1:**

In April 2005, a fatal collision at a private crossing in a rural desert area resulted in two fatalities. A similar accident had occurred at the same crossing in 2000. Investigation revealed that the passive crossing is utilized by various parties accessing a propane company, a planned energy generation facility, an electric substation, a water facility, and open space for recreation. Trains run at 79 mph through this area, and although there is clear visibility along the track, drivers do not always take adequate precautions and often disregard the posted STOP signs on approach to the track. The crossing is in a narrow, paved road between a main highway and private properties on the other side of the tracks. CPUC staff informed the property owner that the private nature of the crossing was no longer valid and that CPUC staff would seek closure of the crossing unless the warning devices were upgraded to modern public crossing safety standards and, further, that the local roadway agency needed to take authority for the crossing and the maintenance costs associated with these improved safety warning devices. The property owners agreed and are financing the upgrades; the County has agreed to be responsible for the crossing and its maintenance costs.

**Example 2:**

A private unpaved road in Ventura County crosses Union Pacific Railroad Company (UPRR) tracks. The private crossing provides access to a Christmas tree farm as well as to three separate private residences. During the winter holiday season about 100 vehicles traverse the crossing daily. Daily train traffic includes eight UPRR freight trains traveling at 60 miles per hour (mph), ten Amtrak passenger trains, and four Metrolink commuter trains traveling at 70 mph. The crossing warning devices include STOP and "PRIVATE CROSSING" signs. There have been a total of five reported collisions at the crossing since September 4, 1986. The collisions resulted in twenty injuries and two fatalities. The most recent incident occurred August 5, 2005, involving a dump truck and an Amtrak passenger train. CPUC staff recommended upgrading the warning devices to flashing light signals and gates, advance warning signs, and providing illumination. The Ventura County Transportation Commission has acquired special federal funding and, together with the UPRR, will upgrade the warning devices at the crossing to gates and flashing light signals. Maintenance costs will be borne by the railroad as specified in the crossing agreement negotiated with the Ventura County Transportation Commission. Although the crossing will remain a private crossing, automatic warning devices will be installed.

## COMMENTS

Question 1

*At-grade highway-rail crossings present inherent risks to users, including the railroad and its employees, and to other persons in the vicinity if a train were to derail into an occupied area or release hazardous materials. When passenger trains are involved, the risks are heightened. From the standpoint of public policy, how do we determine whether the creation or continuation of a private crossing is justified?*

CPUC Comments on Question 1

A private crossing is justified ONLY if it provides sole access to a parcel of land that has no other viable alternate access available that will not cross the railroad tracks. Private crossings have been thought of differently than public crossings because, in theory, only the private property owners and their invitees, guests, or employees use the crossing, and users should be aware of the existence of the crossing and associated hazard. This justified the opinion that there is no need for advance warning signage or automatic warning devices, as are typically used at public crossings. There is also the assumption that if a collision occurs at a private crossing, only the private property owner and the railroad may suffer the consequences of the crash, and therefore these two interested parties are solely responsible for the safety of the private crossing.

However, many private crossings are on farms which use temporary employees who may not be aware of the presence of the crossing and the associated hazards. Also, if trains carrying hazardous material or passengers are involved in a collision, then the surrounding community may be exposed to hazardous material or the passengers on-board the train may be injured or possibly killed. Therefore, train passengers and the general public, not only the property owner and the railroad, are exposed to the dangers of an accident at a private crossing. Also, unless the approaches to the private crossing are controlled (e.g., locked gates) or at least posted as private property, the public may use it (e.g., a lost driver). Therefore, individuals other than the invitee, guests, or employees of the property owner may use (with or without permission) the crossing.

Furthermore, if a private crossing is publicly used (such as ones that provide access to a business), the general public is exposed to the same level of hazard as with any public crossing. Anytime there is a probability that the public may be exposed to

harm by a private crossing, it becomes a public safety issue requiring diagnostic review and special consideration. In such cases, state government oversight of the crossing is needed.

Question 2

*Is the current assignment of responsibility for safety at private crossings effective? To what extent do risk-management practices associated with insurance arrangements result in “regulation” of safety at private crossings?*

CPUC Comments on Question 2

Currently, the railroads and private crossing owners share liability for the safety at private crossings. We do not have knowledge of insurance arrangements indemnifying property owners for damages resulting from accidents at private crossings. It is our understanding that railroads are self-insured with respect to personal injury liability. As such, risk management practices at private crossings are imposed primarily by state government regulations which pertain to private crossings and, secondarily, by the railroads’ (and, to some extent, property owners) own interests in minimizing their exposure to financial liability.

Because there are few controls at most private crossings assuring usage by only authorized parties, the use of private crossings can change over time. We are not confident that such changes in use would be identified in a timely manner and addressed by the railroad or the land owner. Railroads may not be aware of the changes use, and land owners may not be aware of the need to reevaluate the crossing and its warning devices based on changes in use. We recommend some mechanism where the local government identifies increased or changed land use in land locked parcels to identify such changes in the dynamics of the crossing and its use. With such a process, the appropriate state agency, the railroads and land owners could make informed decisions regarding the appropriate crossing treatments.

Question 3

*How should improvement and/or maintenance costs associated with private crossing be allocated?*

### CPUC Comments on Question 3

Generally, allocation of improvement and/or maintenance costs is agreed to by the landowner and the railroad as parties entering into the legal instrument establishing the private crossing. Private crossings can be created using the following legal instruments.

In general, we support the specified cost allocation for each type:

- a) Deeded crossings – crossings established at the time the property owner granted a right-of-way easement to the railroad for a rail line over the owner’s property.

For these situations, railroads should be responsible for all improvement and maintenance costs.

- b) Licensed crossings – crossings where the railroad granted a license to a property owner for a crossing of its tracks.

For these situations, property owner are generally responsible for all improvements and maintenance costs.

- c) Newly created crossings, i.e., crossings where a railroad or other property owner has sold property to a purchaser at some time after the railroad had obtained the right-of-way for the rail line – Occasionally, the railroad sells property to a private party that is land-locked between railroad tracks (usually within a “wye”), and then allows the owner to build a private crossing over one of its tracks.

In these situations the responsibility should be explicitly determined by contract between the railroad and the property purchaser.

In California, where the landowner and railroad do not agree, the Commission may apportion such costs. See: Cal. Pub. Util. Code § 7537.<sup>3</sup>

### Question 4

*Is there a need for alternative dispute resolution mechanisms to handle disputes that may arise between private crossing owners and the railroads?*

### CPUC Comments on Question 4

As previously noted, California law grants the CPUC the power to fix and assess

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<sup>3</sup> “...The commission shall have the authority to determine the necessity for any crossing and the place, manner, and conditions under which the crossing shall be constructed and maintained, and shall fix and assess the cost and expense thereof.”

costs for the construction and maintenance of private crossings. The CPUC allows for administrative legal review by public hearing in crossing matters. Administrative Law Judges (ALJs) hear crossing cases and prepare proposed decisions for consideration by the Commission in general. The Commission reviews the facts of the case and the proposed decision and issues its own carefully-reasoned written decision. Moreover, the CPUC has its own Alternative Dispute Resolution mechanism for these and other proceedings in which ALJs specially trained in mediation procedures and outcomes are used to assist in resolving such matters.

Question 5

*Should the State or Federal government assume greater responsibility for safety at private crossings?*

CPUC Comments on Question 5

The issues involved with private crossings include property rights, contract law, and the safety responsibility for the traveling public, all of which have been traditionally within the states' jurisdiction. Many of the grants of rights-of-way in California were created in the Nineteenth Century at the time of initial railroad line construction. Both the rights-of-way and the crossing agreements may be found in Deeds of Trust, Quit Claim Deeds, and contractual arrangements between the railroads and California landowners subject to the laws of the State of California. Therefore, we strongly recommend keeping the responsibility for the safety of private crossings with the states. The FRA may issue guidelines, for the benefit of states that do not have laws on this subject, and provide recommended language for laws or regulations on this subject.

In short, the CPUC contends that public and private crossing safety regulation is too dependent on state law in real property and contracts law, and is too focused on regional issues and concerns, to permit federal pre-emption of the field. Recommended federal guidelines may be valuable, wholesale federal pre-emption is not.

Question 6

*Should there be nationwide standards for warning devices at private crossings or for intersection design of new private grade crossings?*

CPUC Comments on Question 6

In California, each individual public crossing design is reviewed by a diagnostic team, comprised of experts, to recommend appropriate design considering the unique nature of individual highway-rail crossings. Private crossing design is generally specified between the railroad and land owner in their crossing agreement. In cases where a private crossing is used by the public, or trains carrying hazardous material, or in instances where passenger trains use the crossing, the existing guidelines for “public” crossings should apply.

In other cases, we recommend the FRA invite a group of experts to develop guidelines for the design of private crossings, similar to the Highway/Rail Grade Crossing Technical Working Group that issued the *Guidance on Traffic Control Devices at Highway-Rail Grade Crossings*.

Question 7

*How do we determine when a private crossing has a public purpose and is subject to public use?*

CPUC Comments on Question 7

Where crossings allow unfettered access of passage, and routinely invite the general public to use the crossing, a public purpose has been established. In such cases, guidelines for crossing treatments should be the same as for a public crossing. Public uses of crossings which could be classified as private include: crossings at shopping centers and malls (which are generally private property), crossings to public facilities (such as land fills, recreational areas and other unrestricted public lands), private roads to residential developments (mobile home parks, residential subdivisions, private country clubs) and other business and commercial enterprises offering goods or services to the public (Christmas tree lots, nurseries). As stated above, the potential of hazard to the public at all private crossings should be assumed to be the same as a public crossing, particularly where the public is invited to the property.

Additionally, in many cases, the conditions and use at private crossings have changed markedly from those when the agreement was first executed. As mentioned



above, this changed use should be addressed through crossing upgrades, or potentially, closure. However, it is very difficult to set a threshold for determining when a crossing is “publicly” used. (For example, can two private residences share a private crossing—can 10 residences? Where do you draw the line?)

For example, a crossing may have been established 50 years ago when only a farmer and its employees used the crossing so that the document creating the private crossing may be appropriate for the limited use expected 50 years ago. But, if 50 years later a local or farmers’ market is established on the property, or the property has been subdivided for residential or commercial use the changed usage at the crossing may pose a hazard to the general motoring public. The terms of agreement between the railroad and property owner have changed and so must be reevaluated. It is difficult to police the usage of each private crossing. Moreover, it is very difficult to set a threshold for determining when a crossing is “publicly” used. (For example, can two private residences share a private crossing—can 10 residences? Where do you draw the line?)

Consequently, the private property owner must be given the incentive to upgrade the warning devices at the crossing when the usage changes. Financial liability, in case of a collision, is one incentive for private property owners to provide proper warning devices at a crossing, but generally, it is not a compelling one until after an incident. Any guidelines on private crossings considered for adoption should address changes in use over time, and provide for reevaluation.

The best time to determine an increase in motor vehicle, bicycle, or pedestrian traffic at a rail crossing is when a developer seeks approval of new commercial or residential construction. For the past three years, the Commission has been reviewing proposed developments within the state and has provided written comments to local governments concerning potential impacts on public safety under the California Environmental Quality Act (CEQA) of 1970. This procedure permits the Commission to monitor proposed increases in all traffic at private or public crossings. Under CEQA, the

lead agency for the proposed development is required to respond to public comments concerning the project.

Question 8

*Should some crossings be categorized as commercial crossings rather than private crossings?*

CPUC Comments on Question 8

California does not believe a distinction should be made between a “commercial” crossing and a “private” crossing. California treats the crossing as a “private” crossing but, nevertheless, may require greater protections to pedestrians or the motoring public through the addition of improved safety warning devices similar, or identical to, public crossings. Also, there are public used crossings that are not commercial in nature, e.g., apartment buildings and mobile home parks.

Question 9

*Are there innovative traffic control treatments that could improve safety at private crossings on major rail corridors, including those on which passenger service is provided?*

CPUC Comments on Question 9

Private crossings should be treated much like public ones. Private crossings are subjected to the same kind of diagnostic safety review and the same level of state safety oversight as public crossings. Existing industry and state safety standards and practices should be maintained. The same innovative traffic control treatments considered for public crossings can often be used at private crossings.

Question 10

*Should the DOT request enactment of legislation to address private crossings? If so, what should it include?*

CPUC Comments on Question 10

We believe that the FRA has taken the appropriate steps to solicit public comment on the matter to determine the scope of the relevant issues relating to private crossings. It would be premature to consider adoption of new legislation regarding private crossings until the comments of the interested parties are made and considered. Only then will an

assessment of regulatory gaps be able to be fully reviewed and potential solutions considered.

### **CONCLUSION**

The California Public Utilities Commission applauds the initiative taken by the Federal Railroad Administration to reduce hazards associated with private at-grade highway-rail crossings. In our opinion, all private crossings should be provided with the same level of warning devices as public ones based on the use and geometry of the crossing. The dangers posed by a private and a public crossing on higher-speed passenger rail lines are basically similar since passengers as well as bicyclists, pedestrians, and motorists are placed at risk. Likewise, freight trains carrying hazardous material have similar potential for the dangerous release of those hazardous materials at both public and private crossings. California notes that all Class 1 railroads, and many short line railroads in the state, transport hazardous materials over their rail lines.

California contends that existing protections, particularly under state law, are sufficient to protect the traveling public so long as similar criteria for providing warning devices are used for both private and public crossings. For instance, private farm crossings used by temporary employees who may not be familiar with the crossings and the dangers associated with them should be considered for upgrades following diagnostic review and evaluation. Further, there are also many private crossings that provide public access to businesses or housing which also should be evaluated for warning protection improvements based on the same criteria as public crossings. The Commission recommends that the FRA assist in the formation of a Technical Working Group to

prepare general guidelines for identifying dangerous private crossings and recommend guidelines to be considered in upgrading or designing such crossings.

Respectfully submitted,

RANDOLPH L. WU.  
LIONEL B. WILSON  
JASON ZELLER  
PATRICK S. BERDGE

By: PATRICK S. BERDGE

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October 26, 2006

**CERTIFICATE OF SERVICE**

I hereby certify that I have this day served the foregoing document entitled COMMENTS OF THE CALIFORNIA PUBLIC UTILITIES COMMISSION OF THE STATE OF CALIFORNIA in Docket No. FRA 2005-23281, upon the Federal Railroad Administration in this proceeding by electronically forwarding the document in WORD and filling out and submitting the Document Submission Form to the U.S.D.O.T.'s electronic docket site (DMS) at: <http://dms.dot.gov> .

Dated at San Francisco, California, this 26<sup>th</sup> day of October, 2006.

/s/ Joanne Lark

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Joanne Lark

# Examination of Highway-Rail Grade Crossing Collisions Over 10 Years in Seven Midwestern States

**THIS FEATURE COMPARES FOUR MAJOR CLASSES OF WARNING DEVICES FOR HIGHWAY-RAIL GRADE CROSSINGS. OVERALL, THE ANALYSIS SHOWS THAT THE HIGHEST COLLISION RATES USING ANY BASIS OCCURRED AT LOCATIONS WHERE THE WARNING DEVICE WAS A STOP SIGN. THE PUSH TO UPGRADE CROSSINGS FROM CROSSBUCKS ONLY TO STOP SIGNS MAY BE CREATING A FALSE SENSE OF IMPROVED SAFETY.**

BY RICHARD A. RAUB

## INTRODUCTION

Although the literature has addressed the potential safety of various classes of highway-rail crossing warning devices, few studies have compared the safety of crossings for different device classes.

This feature examines the differences among classes of warning devices using collision and inventory data from the Federal Railroad Administration (FRA). It examines four specific warning device classes: crossbucks only, STOP signs, flashing lights and gates. There are other types of warnings, including yield signs and none; however, the number of collisions at these crossings are too few to perform meaningful analyses.

This feature compares collisions and collision rates along with personal injuries and property damage among different classes of warning devices in seven midwestern states. Data cover a 10-year period (1994–2003). Raw data for collisions include number of collisions, injuries, fatalities and vehicle damage cost. Data are further disaggregated into type of collision (train into vehicle or vehicle into train).

Collision and injury rates use number of crossings, average daily (motor vehicle) travel (ADT) and average number of daily trains. An exposure measure is derived from daily trains  $\times$  ADT (similar to one of the independent variables included in the hazard formula used to address the need for gates). Only collisions at public crossings as reported between vehicles and trains are used. Two

assumptions are made:

- The warning device listed in the crossing inventory on the date of the collision is the correct one. However, if the crash report carried a higher level of warning (such as gates over flashing lights), that level is used.

The device differed in less than 10 percent of cases. The collision report had the higher level of warning 75 percent of the time.

- The inventory has the best available data. ADT may not be updated for several years, crossings may be closed but not reported until another year and the number of daily trains can be highly variable over extended periods. Although discrepancies can exist, when the data are aggregated, especially over a region, these discrepancies should have a minimal overall effect on the analyses.

The discussion compares statistics by class of warning device as well as by state. It is limited to the states of Illinois, Indiana, Iowa, Michigan, Minnesota, Missouri and Wisconsin. The reason for selecting the midwestern states derived from a study originally performed covering crossings in Wisconsin. Other states were used to discover if the findings in Wisconsin were, perhaps, an anomaly.

Two important findings appeared and are addressed in the discussion section:

- Gates generally have the lowest collision rates. With few exceptions, STOP signs have higher rates than the use of crossbucks only.
- There is substantial variation in collision rates among the states for a given class of device.

## LITERATURE ON CROSSING WARNING DEVICES

Previous research analyzing collisions and collision rates by warning device is limited. Klein, Morgan and Weiner, using data from the Fatality Analysis Reporting System (FARS), compared the percentage of fatal collisions by class of warning device to the number of crossings with the device.<sup>1</sup>

They found that crossings with flashing lights were over-represented; that is, the percentage of fatal collisions at these crossings was higher than the percentage of these crossings in the inventory. Those with crossbucks were under-represented. Texas data showed that 58 percent of all collisions occurred at crossings with railroad gates or signals. The report did not address collision rates.

Sanders, McGee and Yoo found that the collision rates at passive crossings were similar regardless of whether they had STOP signs or crossbucks only.<sup>2</sup> Knoblauch, Hucke and Berg found that at crossings with flashing lights, drivers had not thought that the lights provided a creditable message.<sup>3</sup> Where only crossbucks were in place, drivers often missed seeing a train (especially at night).

Case studies by the National Transportation Safety Board (NTSB), covering 46 collisions at public crossings from December 1995 to August 1996, examined classes of warning devices.<sup>4</sup> They found that of the 46 collisions, 22 had occurred at crossings with STOP signs in place. In 59 percent of those incidents, drivers ignored the sign.

NTSB's specific interest in collisions at STOP-sign controlled crossings stemmed from the Federal Highway Administration's (FHWA) 1992 rule-making supporting the use of STOP signs: "Stop or yield signs may be used at the discretion of the responsible State or local jurisdiction for crossings that have 2 or more trains per day..."<sup>5</sup>

The rulemaking was in response to requirements in the Intermodal Surface Transportation Efficiency Act of 1991 (ISTEA). Warrants are found in Section 8B.07 of the *Manual on Uniform Traffic Control Devices*.<sup>6</sup>

Most of the work on warning devices has been directed toward the installation of gates. Numerous hazard formulas are available to help determine when gates are needed. For flashing lights, Knoblauch, Hucke and Berg suggested only reasons why collisions occurred.<sup>7</sup> Few studies have examined the use of STOP signs. Observational studies by Bezkorovainy and Holsinger and, later, by Burnham showed that motorists frequently disregarded STOP signs at grade crossings.<sup>8,9</sup>

Russell and Burnham suggested that both FHWA and ISTEA promulgations on STOP signs were designed to reduce liability on the part of railroads, even though all previous evidence had suggested that such indiscriminate use would be detrimental and would not promote safety interests.<sup>10</sup>

#### *Data and Methodology*

Data for this analysis were derived from two sources. Collision data were taken from the FRA Office of Safety Web site, using the download "7.01 Accident Data on Demand."<sup>11</sup> The category "Highway-Rail Accidents" came from a Statistical Analysis System (SAS, PC version 8.0) table covering 1994–2003. SAS also was used for statistical analysis.

Although the crossing inventory also is available on the FRA Web site, it provides only the most recent configurations. Because annual rates were to be used, the inventory had to reflect the crossing warning devices in place when the collision occurred. Each time the railroad revises the inventory for a crossing, the FRA Office of Safety creates a new record. Because of the large number of records for each state, only those covering 1994–2003 for the seven midwestern states were requested.

Some data manipulation was performed. Most important, the codes for the crossing warning device contained in the FRA collision file were not the same codes used by the FRA inventory file (for example, 01 was "gates" in the collision file, but 8 in the inventory file). Codes in the collision table were changed to match those in the inventory. This change allowed the merging of inventory and collision files.

Approximately 9 percent of the warning devices did not fall into the four classifications used in this feature. Of those, approximately 50 percent had no warning device listed. Because traffic volumes, daily trains and the number of crashes were so small, their inclusion, in total, would have made no difference. Moreover, rates computed for these devices were highly variable and of limited value for analysis.

The warning device code was adjusted to represent the highest level of warning system (crossbucks were the lowest and gates were the highest) on either the colli-

sion report or the inventory. Of the more than 9,000 crashes examined, the device codes differed in less than 9 percent of cases. The highest level of warning system was on the inventory approximately 25 percent of the time; the remainder was on the collision record.

During an early review of this feature, a question was raised regarding the quality of both FRA collision and inventory data. Issues with the inventory data have been noted. However, in comparing Klein, Morgan and Weiner to the FRA data, the latter appear more complete.<sup>12</sup> Klein, Morgan and Weiner used FARS data for 1998–2002 in the seven states. They noted 365 fatal collisions at grade crossings, of which 341 involved a collision with a train. A total of 395 persons were killed in these latter collisions. On the other hand, FRA showed 427 fatal collisions killing 496 persons (25 percent higher than the FARS values).

Collision rates used in the analysis have three bases: millions of crossing vehicles (MCV), which is the sum of ADT at the crossings divided by 1 million, average daily trains and an exposure factor. The latter is derived from the product of ADT and crossing trains. It has been used in many of the hazard formulas, including New Hampshire, Coleman-Stewart and Peabody-Dimmick, and in part in the current U.S. Department of Transportation formula.<sup>13</sup>

## **COLLISIONS AND COLLISION RATES**

### *National Data*

For the entire United States over 10 years (1994–2003), there were 33,159 railroad-reported collisions between trains and vehicles at public grade crossings. Of these collisions, 8,793 resulted in one or more injuries and 3,410 resulted in one or more fatalities to vehicle occupants, railroad employees and railroad passengers (see Table 1). A total of 12,243 persons were injured and 4,070 were killed.

Over 10 years, the percentage of collisions with an injury or fatality averaged 37 percent (higher than 31 percent for all highway crashes). The fatal collision rate at highway-rail crossings was 10.3 per 100 collisions. All highway crashes had a fatal rate of 0.6 per 1,000 (2001 data).<sup>14</sup> At highway-rail crossings, both total and

fatal collisions decreased by 44 percent over the past 10 years. Injury collisions decreased 50 percent.

*The Seven Midwestern States*

*Collisions and Collision Rates:* The seven midwestern states had a total of 9,060 collisions for 1994–2003, or an average of 906 per year (see Table 2). This value was 27.6 percent of the national total. The proportion of injury and fatal collisions paralleled the national proportions. However, a 54-percent overall decrease for the past 10 years exceeded the national 44-percent decrease.

Table 2 also displays other values used in the subsequent analysis. For the seven states, total vehicular damage recorded was \$37.7 million, or \$4,160 per collision (and did not include costs resulting from injuries and deaths or any costs to the railroads, employees, or passengers). Over this period, these states reported an annual average of 61,100 public at-grade crossings. Illinois had the most with 13,300, followed closely by Indiana with 10,200.<sup>15</sup> The remaining five states averaged between 6,300 and 8,000 crossings. ADT at all crossings was 1,650 vehicles, with an average of eight daily crossing trains.

The analysis of collisions for the midwestern states examined differences among the states and the warning devices. The numerators for the rates included: collisions, casualty (injury plus fatal collisions) and vehicle damage. Denominators included: number of crossings, MCV, number of trains and an exposure factor. For descriptive ease, factors are expressed in thousands or millions.

Also examined were other factors that may play a role in differentiating collision rates. The most prominent was the type of collision—train into vehicle or vehicle into train. Vehicles struck trains 20 percent of the time in Missouri to 40 percent in Michigan. Other associated factors included: year of the collision, weather, visibility, age and sex of driver, number of roadway lanes and timetable train speed.

One aspect stands out clearly in the analysis: Collision rates for a given class of warning device and a given base were not consistent from state to state. One state may have had the highest rate per 1,000 crossings at gated crossings, but not the highest at passive crossings.

Likewise, the rates varied for class of device dependent upon the basis. That is, the rate for collisions at STOP-sign controlled crossings may have been the highest when the basis was MCV, but not when it was 10,000 trains. To expound a simple conclusion such as “crossings with gates have the lowest collision rates” cannot be done without also providing the

**Table 1. All vehicle-train crashes and casualties nationally at highway-rail grade crossings.**

Year	Crashes			Injuries	Fatalities
	Number	Injury	Fatal		
1994	4,503	1,237	476	1,645	571
1995	4,153	1,147	419	1,623	523
1996	3,788	1,038	379	1,386	448
1997	3,414	939	341	1,310	418
1998	3,086	849	324	1,145	384
1999	3,090	846	307	1,262	363
2000	3,032	756	319	1,079	369
2001	2,843	726	320	1,038	386
2002	2,707	630	260	865	315
2003	2,543	625	265	890	293
Total (1994–2003)	33,159	8,793	3,410	12,243	4,070
Percent change from 1994	-43.5	-49.5	-44.3	-45.9	-48.7
Percent injury or fatality		26.5	10.3		

**Table 2. Crashes and crossing data for 1994–2003 (all warning devices) for seven midwestern states.**

State	10-year total				Average annual values			
	Crashes	Severity		Vehicle damage (millions)	Crossings	MCV* (100)	Trains (millions)	Exposure factor (000)
		Injury or fatal	Fatal					
Illinois	2,004	858	293	\$7.18	13,346	90.5	53.5	4.84
Indiana	1,941	691	196	\$7.32	10,173	67.6	34.4	2.32
Iowa	979	339	68	\$5.23	8,652	35.7	17.6	0.63
Michigan	1,181	517	110	\$4.18	8,062	76.9	18.2	1.40
Minnesota	1,013	370	93	\$5.49	7,586	30.0	15.0	0.45
Missouri	826	333	112	\$3.48	6,261	23.1	22.0	0.51
Wisconsin	1,116	447	74	\$4.79	7,037	53.1	14.6	0.73
Total	9,060	3,555	946	\$37.68	61,117	376.9	175.4	66.12
Average per state	1,294.3	507.9	135.1	\$4.16	8,731			
Average daily number per crossing						1,670	7.9	1.33

\*Note: ADT described as million crossing vehicles (MCV).



basis for the conclusion along with the state in which that observation arose.

*Collisions, Severity and Exposure Bases by Type of Warning Device:* Only four classes of warning devices were used for this analysis: crossbucks, STOP signs, flashing lights and gates. Other classes, such as no device, traffic signal and flagman, were excluded. They accounted for approximately 7 percent of all crossings (and more than 50 percent of these had no warning device), but less than 3 percent of crashes. Attempting to distribute these crashes over a 10-year period and seven states would have yielded limited valid data for statistical analysis.

For the seven midwestern states, these four classes of public crossings had 8,856 collisions from 1994–2003. Injuries and fatalities occurred in 3,503 of the collisions. The cost of vehicle damage was approximately \$37 million.

As shown in Table 3, 36 percent of the collisions occurred at crossings with only crossbucks as a warning device. Next highest were crossings with flashing lights, representing 28 percent of the collisions. Crossings with gates and STOP signs represented 23 percent and 13 percent, respectively.

Collisions with casualties had a similar percentage structure. However, a fatal collision was more likely to occur at gated crossings. The ratio between injury and fatal collisions was 1.5 to 1 at gated crossings versus approximately 3.3 to 1 for all other classes of device. Table 3 also shows the number of crossings with each of the four classes of warning device: daily MCV, the number of trains and the exposure factor.

Approximately 57 percent of crossings had only crossbucks. An additional 22 percent had flashing lights. These two devices accounted for almost 80 percent of all crossings in the seven states. Only 13 percent of all crossings had gates installed and, with few exceptions, they were two-quadrant. Eight percent had STOP signs.

When daily travel was considered, crossings with flashing lights carried 46 percent of the total MCV, or 41 million vehicles. Crossings with gates had the second highest volume; those with STOP signs were the lowest. ADT per crossing ranged from 445 at those with a

**Table 3. Crashes and crossing data for 1994–2003 (by warning device) for seven midwestern states.**

Device	Crashes		Injury and fatal		Fatal only		Damage (millions)
	Number	Percent	Number	Percent	Number	Percent	
Crossbucks	3,197	36.1	1,320	37.7	289	30.8	\$14,895
STOP signs	1,146	12.9	470	13.4	116	12.4	\$5,446
Flashing lights	2,445	27.6	959	27.4	234	25.0	\$9,369
Gates	2,068	23.4	754	21.5	298	31.8	\$7,520
Total	8,856		3,503		937		\$37,230
Average annual values							
Device	Crossings		Daily MCV*		Daily trains (000)		Exposure factor (000)
	Number	Percent	Total	Percent	Total	Percent	
Crossbucks	31,960	57.3	17,139	19.1	144.8	31.9	2.481
STOP signs	4,523	8.1	2,409	2.7	39.1	8.6	0.094
Flashing lights	11,983	21.5	41,294	45.9	89.1	19.6	3.678
Gates	7,327	13.1	29,062	32.3	181.3	39.9	5.268
Total	55,792		89,904		454.2		11.522
*Note: MCV = millions of crossing vehicles daily							

**Table 4. Average annual crash and casualty rates for 1994–2003 for seven midwestern states.**

Device	Crash rates			
	1,000 crossings	Annual values		
		100 MCV (00)	1 million trains	Exposure
Crossbucks	10.0	1.87	2.21	128.84
STOP signs	25.3	4.76	2.93	1,215.56
Flashing lights	20.4	0.59	2.75	66.47
Gates	28.2	0.71	1.14	39.26
Average	15.9	0.99	1.95	231.33

STOP sign to 3,950 at those with gates. Crossings with flashing lights averaged 3,400 vehicles; those with only crossbucks averaged less than 600. Gated crossings carried almost seven times the vehicular volume as when passive warning devices were in place.

For number of daily trains, gated grade crossings accounted for 40 percent of the total; crossbucks were second with 32 percent. STOP signs accounted for 8 percent, the lowest.

Combining trains and vehicles into an exposure factor yields more extreme differences. The exposure factor can give a relative likelihood of a vehicle and train being at the crossing at the same time

(and, thereby, of an opportunity for a collision). Gated crossings had an exposure factor of 2.1 times the value for crossbucks and 56 times that for STOP signs.

*Collision Rates for the Four Classes of Warning Device*

This section describes collision and casualty (injury and fatal combined) annual rates for: 1,000 crossings, 100 MCV, 1 million trains and the exposure factor. The bases represent the values for all crossings with that class of device. Because of large differences in the number of vehicles and trains at the different classes of crossings, using rates presents more meaningful comparisons.

Table 4 displays the rates. Only rates for all collisions are given. In general, the overall rates were approximately 2.5 times the casualty rates. For example, the average collision rate per 1,000 crossings for the four warning classes combined was 15.9. The casualty rate was 6.3.

*Rate Per 100 Million Annual Vehicles:* One common method of measuring exposure is by the number of drivers using the facility. The number of entering vehicles, for example, commonly is used to compute crash rates at intersections. Because of the magnitude of the annualized MCV, the base is expressed in 100 MCV (annual) and shown in 100s.

The rate for crossings with STOP signs as the warning device was 4.76 per 100 MCV. Crossings with only crossbucks in place had a rate of 1.87, 39 percent of the rate for crossings with STOP signs. For crossings with active warnings, the rates were 0.59 for flashing lights and 0.71 for gates. The large volume of traffic at crossings with active warnings weights the average value at 0.65 per 100 MCV. The differences between the rates at crossings with STOP signs and other warning devices was statistically significant.

*Rate Per 1 Million Annual Trains:* Using a basis of 1 million annual trains changed the ordering. STOP signs remained the highest with a rate of 2.93 per million trains. Flashing lights had the next highest rate, followed closely by locations with crossbucks only. The differences between the rates for STOP signs and the latter two classes of warning devices were significant.

Where passive devices were in place, the rate at grade crossings with crossbucks was 75 percent of the rate where STOP signs were installed. Only the rate at gated crossings (1.14 per 1 million trains) was significantly lower.

*Rate Based on Exposure Factor:* Using a factor that accounts for vehicles and trains combined displayed the greatest differentials. Gated crossings had the lowest rate of 39.26 per exposure. Flashing lights had a rate some 1.5 times higher. The rate of 129 where only crossbucks were in place was more than three times the rate for gated crossings. STOP signs had a rate of 12,166, approximately 31 times where gates were in place.

## **COLLISIONS AT HIGHWAY- RAIL GRADE CROSSINGS WHERE STOP SIGNS WERE INSTALLED WERE MORE LIKELY TO OCCUR THAN WITH ANY OTHER FORM OF WARNING SYSTEM.**

*Differences by State and Warning Device:* When rates are further disaggregated by state, a state that has the highest rate for one type of crossing warning device may not have the highest for another device among the states studied. Moreover, the ratio between the highest and lowest values will differ. For example, crossings with only crossbucks in Missouri had a rate of 2.68 collisions per 100 MCV. Wisconsin was the lowest with a rate of 1.40. The rate in Missouri was almost 200 percent higher than Wisconsin's.

Highway-rail crossings with STOP signs had the highest overall average collision rate of 4.76 per 100 MCV. The rate for Wisconsin, 10.42, was twice the average and 3.8 times that of Michigan. There was similar dispersion among the rates for crossings with flashing lights and gates. The highest rate for flashing lights of 0.80 per 100 MCV appeared in Indiana as opposed to the seven-state average of 0.59. At gates, the range lay between 1.22 in Iowa and 0.47 in Wisconsin.

### **COLLISION ELEMENTS AND THEIR RELATIONSHIP TO RATES**

A number of factors were captured on the inventory for each crossing and were examined to determine if there was a relationship between that factor and

collision rates. Because these factors often are ordinal, a non-parametric test is appropriate. Wilcoxon and the Kruskal-Wallis One Way Analysis of Variance are two tests of relationships among ranked values.<sup>16</sup>

Wilcoxon applies to two-sample cases and Kruskal-Wallis to *k* samples. For example, when comparing collision rates at crossings where the vehicle ran into a train and visa versa, all collision rates are ranked. The ranks are split into the two elements: vehicle into train and train into vehicle. The average of the ranks for each column should be similar (that is, rank values are distributed randomly among the two categories) if no statistical differences exist.

The factors listed below showed a statistically significant relationship with collision rates for one or more classes of warning systems:

- Manner of collision (train into vehicle or vehicle into train)
- Time of day (morning, afternoon, night)
- Weather (clear, rain, snow)
- Light conditions (day, dark)
- Timetable (maximum) train speed (using grouped speeds)
- Number of roadway lanes
- Crossing angle (angle of roadway to crossing)
- Age of driver (using age groupings)
- Sex of driver

Others variables that might be expected to relate to a collision showed none, including:

- Vehicle speed
- Actual train speed
- Location of collision (rural or urban, as indicated on the FRA file)
- Paved or unpaved crossings

Based on the tests, several observations can be drawn. First, for crossings with crossbucks, all factors except driver age appeared to have a significant relationship to collision rates based on MCV. However, determining which specific characteristic (for example, specific hour or set of hours) was different can not be done with the non-parametric tests used.

Collisions at crossings with flashing lights also had more than one-half of the

**Table 5. Crossings changing from crossbucks only to STOP signs for seven midwestern states (crash and crossing data for 1,939 crossings).**

Device	Total crossing years	Average years for device	Crashes	Casualties	Damage (000)	MCV	Daily trains
Crossbucks	9,158	4.72	192	102	1083.4	2.21	6.91
STOP signs	9,905	5.11	261	135	1432.8	2.17	8.22
Total	19,063	9.83	453	237	2516.2	4.37	15.13
Crash rates							
Device	Crashes	Rates per 100 crossings	Annual rate				
			100 MCV	1 million trains			
Crossbucks	192	2.10	23.82	7.61			
STOP signs	261	2.64	33.00	8.69			
Total	453	2.38	28.37	8.20			

factors showing significant relationships. On the other hand, few relationships were found between the factors and collision rates for crossings with STOP signs or with gates. However, crossings with STOP signs and with gates shared one commonality: With both types of warning, approximately 75 percent of the collisions involved a train running into a vehicle, compared to less than 65 percent at the other two major classes.

*Crossings Changed from Crossbucks to STOP Signs*

One question raised during the review of this feature addressed what happened to crossings where a change was made from crossbucks to STOP signs. In all seven states, 1,939 crossings went from crossbucks to STOP signs, or visa versa, over the past 10 years. As shown in Table 5, crossbucks were in place for an average of 4.7 years at the crossings, and STOP signs for 5.1 years. The numbers do not add to 10 because some crossings did not exist or did not have passive controls for the entire period.

There were collisions at only 175 of the 1,939 crossings. The rates when STOP signs were in place were slightly higher for the crossings that had only crossbucks. None of the differences was statistically significant.

**DISCUSSION AND CONCLUSIONS**

STOP-sign laws call for a motorist to come to a stop and yield to crossing traf-

fic before entering the intersection. In most cases, motorists do stop and yield. Collisions occur when motorists fail to stop or yield. The presumption behind their use at highway-rail crossings is that motorists will treat them the same as for roadway intersections.

Motorists should first completely stop and then proceed if a train is not present. Because motorists are stopping, there should be fewer collisions with trains than would occur at crossings where only crossbucks, which do not require the same action, are installed. This assumption was important because motorists often did not know how to treat the crossings with crossbucks.<sup>17</sup>

This feature originated with a request to examine the improvement in safety at crossings in Wisconsin, where STOP signs had replaced only crossbucks. Initial findings showed that crashes were over-represented at locations where STOP signs were installed. Initial findings led to examining highway-rail collisions in other midwestern states, which tended to share many geographic and population characteristics.

Using 10 years of collision data in seven midwestern states supported the initial findings. Not only in terms of percentages, but also in terms of rates, collisions at highway-rail grade crossings where STOP signs were installed were more likely to occur than with any other form of warning system.

As seen in this study, although cross-

bucks accounted for 58 percent of the crossings in the seven states, these locations had only 36 percent of all collisions. The other three classes were over-represented. For example, crossings with gates had 23 percent of the collisions but only 13 percent of the warning installations.

These statistics by themselves can be misleading. Gates usually are installed at crossings that have high traffic and train volumes. This is shown in Table 3, where the ADT for gated crossings was seven times greater than where only crossbucks were installed. Table 4 shows that collision rates at gated crossings were substantially lower.

What is surprising about the findings is the extremely high collision rates for crossings with STOP signs. Even for Michigan, which had the lowest STOP-sign crash rate, it was 21 percent higher than the rate for crossbucks only in that state. The Wisconsin rate of 10.4 crashes per 100 MCV was four times higher than the highest rate for crossbucks only. Although the rates per 1 million annual trains for STOP signs and flashing lights were the closest of any warning system, the rate for STOP signs was 7 percent higher.

Of the bases used for analysis, the more appropriate one appears to be based on exposure. This takes into account both the traffic volume at a crossing and the number of trains. In effect, it is a relative measure of exposure of drivers to a potential crash. The use of exposure shows that gated crossings have very low rates. On the other hand, the rates for STOP signs used for warnings far exceed any other type of warning device.

It also is important that even when STOP signs were installed at crossings that previously had only crossbucks, collision rates increased. This finding, although based on a small sample because of the very low likelihood of a collision at any passive crossing, further suggests that STOP signs may not provide the assumed level of enhanced safety.

Why the rates for highway-rail grade crossings with STOP signs should be so much higher than for any other form of warning device is not obvious. One possible explanation comes from some studies of STOP signs placed at roadways with low-volume intersecting traffic. Mounce

found that compliance decreased as cross-traffic volume decreased.<sup>18</sup> In their study of Texas intersections, Lumm and Stockton had a similar finding. They concluded that: "Stop signs do not reduce accident experience at low-volume intersections."<sup>19</sup>

One theory from the studies of drivers at low-volume intersections is that they come to regard STOP signs to have less meaning than the law intends. The low-volume highway-rail crossings would fall within this theory. Another theory is that drivers misjudge the speed of trains. They believe they have sufficient time to start and complete the crossing before the train arrives. That the collision at a STOP-sign controlled crossing is more likely to involve a train striking a vehicle than for crossbucks may support this hypothesis.

Another question raised in the preceding analysis is why the rates for the different classes of warning devices varied so substantially from state to state. A more extensive analysis of the data may show that certain crossing characteristics, such as angle of crossing, may have affected the rates. When these elements are controlled, the variations in rates from state to state may decrease.

Finally, no research appears to have been done comparing YIELD signs to STOP signs or to crossbucks at crossings. At least one study from the highway literature suggests that YIELD signs might be a better approach than STOP signs. The Lumm and Stockton work on low-volume intersecting roads found that significantly more motorists stopped or slowed below 5 miles per hour at intersections with YIELD signs than with STOP signs.<sup>20</sup>

They concluded that a STOP-sign controlled intersection was more likely to have a collision than one controlled by a YIELD sign or where no control was in place. All of these conclusions suggest that a comprehensive study of driver behavior at passive rail crossings with crossbucks, YIELD signs and STOP signs will provide information that can lead to improving safety at the grade crossings.

However, given the available data, even with their limitations, this feature raises a critical question. Should STOP signs be employed at highway-rail crossings as a type of warning device, or is some other passive warning device better?

The limited literature on STOP signs already has questioned the efficacy of STOP-sign use. The analysis in this feature raises even more questions, which argues the need for better research on driver behavior before further STOP-sign installation takes place.

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#### RICHARD A. RAUB

recently retired from the Northwestern University Center for Public Safety as senior research scientist. His primary research was devoted to traffic safety. He has authored or co-authored numerous articles in the field. In 2004, he was awarded the ITE paper of the year for his evaluation of the use of automated wayside horns at highway-rail crossings. In addition, he has been a member of the Illinois Chapter and now is affiliating with the Oregon Chapter. He is a member of several Transportation Research Board committees and is an active friend of Work Zone Safety as well as an original member of the Highway Safety Manual Joint Subcommittee. He received a B.A. in economics from Tufts University and an M.S. in transportation science from Northwestern University.



Planning District Commission

Metropolitan Planning Organization

Town of  
Ashland  
Counties of  
Charles City  
Chesterfield  
Goochland  
Hanover  
Henrico  
New Kent  
Powhatan  
City of  
Richmond  
Executive Director  
Paul E. Fisher

November 13, 2006

Docket Management Facility  
US Department of Transportation  
400 Seventh Street, S.W.  
Nassit Building  
Room PL -- 401  
Washington, D.C. 20590-0001

.13

RE: Docket No. FRA- 2005-23281, Notice No. 1

To Whom It May Concern:

In response to notice published in the July 27, 2006 Federal Register (Vol. 71, No. 144) under Department of Transportation, Federal Railroad Administration, concerning its notice on "Safety of Private Highway-Rail Grade Crossings; Notice of Safety Inquiry", the Richmond Area Metropolitan Planning Organization for Richmond, Virginia files the attached comments on behalf of the Technical Advisory Committee member for New Kent County (see attached comments).

Should you have any questions, please contact me by e-mail ([dllys@richmondregional.org](mailto:dllys@richmondregional.org)) or by calling me at 804-367-6001.

Sincerely,

Daniel N. Lysy  
Director of Transportation

DNL/dj  
Attachment

pc: Robert R. Setliff, MPO Chairman  
Kevin Page, VDRPT  
Members, MPO Technical Advisory Committee  
Paul Fisher, RRPDC Executive Director

**SAFETY OF PRIVATE HIGHWAY – RAIL GRADE CROSSINGS;  
NOTICE OF SAFETY INQUIRY**

**COMMENTS SUBMITTED BY  
NEW KENT COUNTY, VIRGINIA  
TECHNICAL ADVISORY COMMITTEE MEMBER  
November 13, 2006**

**Docket Number FRA-2005-23281, Notice No. 1**

1. Given the inherent risks to train-vehicle collisions, no new at-grade crossings of lines carrying or with the potential to carry passenger trains (commuter or city-to-city) should be permitted. All new crossings of lines carrying or with the potential to carry passenger trains should be grade separated. Funding should be made available to close all existing at-grade crossings on rails carrying or with the potential to carry passenger trains and either provide alternative access via existing grade separated crossings or construct new grade separated crossings. Priority should be given to those lines with the potential to serve as higher speed passenger rail corridors.

There is a material difference between granting new access and continuing existing access across rail rights-of-way. The former grants a right that does not exist and presumably provides economic and other benefits accrue to the landowners establishing the crossing. The full cost of providing an appropriate grade-separated access should rightfully be borne by the landowners. However, in the case of continuing existing access, the situation is largely reversed and it is presumed that there may be substantial economic detriment to curtailing or removing a right that exists. Thus it is reasonable to expect that the costs for establishing an appropriate crossing should be borne to a greater extent by the railroad and the public sector. In some cases, existing at-grade crossings are of such low volume and will remain at such low volume that with appropriate gate control, they can remain as at-grade crossings. Should the landowner change the use of the adjacent land in a manner that increases the volume, then they should bear some responsibility for contributing to the cost of reconstructing the crossing as a grade-separated crossing.

2. There is no foolproof way in which to assign responsibility for safety, however what would improve the situation would be for FRA to establish clear standards for what constitutes a “safe crossing” under various scenarios (traffic volume and speed, train volume and speed, etc.) in a way that creates a legal shield prohibiting negligence claims against the crossing owner and railroad if the crossing is constructed and operated in that manner. Then the courts can handle the rest. This is very similar to the way in which AASHTO establishes road design safety standards.

3. The costs of maintenance of private crossings should be borne by the private entity owning and benefiting from the private crossing. Improvements to at-grade crossings should similarly be borne by the private entity owning and benefiting from the crossing. Replacement of private at-grade crossings with grade-separated crossings or alternative access that permits removal of the at-grade crossing should be shared between the railroad, landowner and public sector with the public sector contribution increasing proportionally related to the amount of passenger service existing or projected on the line.
4. Each State DOT should be empowered to mediate and enforce resolution of crossing disputes between private landowners and railroads over existing or newly proposed private crossings. The DOT should also be allowed to approve limited deviations from the safety standards discussed above based on sound engineering practice which is thoroughly documented as part of the plans.
5. As noted above, the FRA should establish clear specifications and guidelines for safety at private (and public) crossings under various scenarios (traffic volume and speed, train volume and speed, etc.) which are then administered by the State DOT. Only the public sector has the incentive to put safety first and foremost and thus it cannot be left to either the landowners or the railroads.
6. Yes, there should most certainly be national standards for all crossings and crossing types—public and private. AASHTO has road standards, MUTCD has signage/markings standards and the crossing standards should be modeled after these very successful national standards.
7. “Public Purpose” should have a very limited scope and incorporate only public roads, public recreational trails, or access to public property.
8. Having certain private crossings designated as “commercial crossings” is potentially a good idea in that it would provide clarity and perhaps differentiate crossings with different traffic characteristics from others. This would also permit the development of crossing standards that take into account the larger and slower vehicle types that may use a commercial crossing with higher frequency.
9. The only treatment that will be certain of improving safety of rail crossings is to grade separate the rail and the road because no other treatment is self-enforcing in this manner. Longer arms that close the entire roadway as opposed to only the approaching lanes supplemented with fencing parallel to the roadway approaches that makes a turn just beyond the crossing gates to parallel the rail for a distance may serve to prevent some of the more stupid attempts to out-run a train, but impatient folks seem to have unlimited reserves of resolve to avoid being delayed. It is better to spend money on grade separation than on half-measures that really only invite folks to be ever more creative in ignoring them.

10. If US DOT does not feel it has the authority to develop and enforce standards for all crossings, then legislation granting that authority should be sought.



<http://csx-sucks.com/SiteDist.pdf> The facts are the FEDs have murdered 1000s of people at crossings private and public by sitting train speeds too high and ignoreing sight lines. Where's the MURDER charges on the bought officials?

The second facts is these Mickey Mouse signs were meant for horses and buggies for cryin out loud. Geez, how phoney can you government clowns get with the goof ball studies?

I see ALL the railroads state/Federal handmaidens are at hand at these cover the railroads murdering ways so called hearings but 1000's of private crossing users where NEVER notified of the illegal hearings. By the way where is the meeting in MY county with all the crossing users notified?

Pages 391

Okay. This is a big job, and I think we've had a good day in Raleigh. And is there anybody else who feels like they haven't had a chance to speak about their issues today before we move on, adjourn, that is?

FRA-2005-23281-1 Federal Register Publication 07/27/2006 U.S. DOT/FRA - Notice of Safety Inquiry PDF (202038 bytes)

PDF (207035 bytes)

4 Pages FRA-2005-23281-2 Comment(s) 09/18/2006 Roger Samuels - Comments TXT (765 bytes)

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1 Page FRA-2005-23281-3 Federal Register Publication 09/22/2006 U.S. DOT/FRA - Notice of Safety Inquiry PDF (55719 bytes)

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2 Pages FRA-2005-23281-4 Comment(s) 09/22/2006 Robert T. Pines - Comments TXT (588 bytes)

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391 Pages FRA-2005-23281-8 Comment(s) 10/19/2006 Roger Samuels - Comments TXT (812 bytes)

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1 Page FRA-2005-23281-9 Comment(s) 10/19/2006 Missouri Department of Transportation - Comments PDF (108641 bytes)

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3 Pages FRA-2005-23281-10 Comment(s) 10/24/2006 Steven J. Rusconi - Comments TXT (1041 bytes)

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1 Page FRA-2005-23281-11 Comment(s) 10/26/2006 California Public Utilities Commission - Comments DOC (79360 bytes)

PDF (134976 bytes)

14 Pages FRA-2005-23281-12 Report 11/16/2006 U.S. DOT/FAA - ITE Journal - Examination of Highway-Rail Grade Crossing Collisions Over 10 Years in Seven Midwestern States PDF (80105 bytes)

PDF (79951 bytes)

Observations of a former railroad engineering department employee now working in the private sector:

The private crossing issue is hardly new. For years, railroads have had to deal with adjoining landowners who want neither the fiscal responsibility or the liabilities that come with the use of a private crossing. This has been compounded by several generations of bad assumptions of "something for nothing" or just plain ignorance. Compounding this is the ignorance of city, county and state officials regarding regulations already on the books at State and Federal levels and suggested standards for road crossing design already presented by AASHTO, AREMA and others.

Most distressing to me as a technical professional is: (a) the blatant ignorance of city and county level officials in issues relating to public and private crossings in general and (b) the disturbing behavior of developers, real estate, title company and public sector consultants around railroad boundaries in general and private crossings in particular. The above mentioned individuals and entities have compounded the mess regarding private crossings multiple times over. Those same individuals do the public disservice with their woeful lack of training and knowledge regarding private at-grade crossings. Where problems and safety conflicts ought to be found and addressed during development or change in ownership, they are shamefully ignored.

(Q1) Is the current assignment of responsibility for safety at private crossings effective?

[A1] No, unfortunately, and it appears to be getting worse.

(Q2) To what extent do risk management practices associated with insurance arrangements result in "regulation" of safety at private crossings?

[A2] Adjacent landowners with an interest in a private crossing ought to share in the liabilities/risks in the use of a crossing. Changing the use of a private crossing and abuse of the right to use a private crossing is a chronic and growing problem. Those "risk management practices" in insurance arrangements can only help put the crossing user and the railroad on notice of what is expected of both parties.

(Q3) How should improvement and/or maintenance costs associated with private crossings be allocated?

[A3] Binding contracts between the crossing user and the railroad should always take precedence. Where a railroad has "grandfathered-in" rights to a private crossing (example: crossing in place since time of construction of the rail line by agreement), the railroad ought to say so. Where title to adjoining land(s) to the crossing has changed and the landowner has failed to notify the railroad of that change in crossing user, the burden should fall on the private crossing user to keep use of the crossing or agree to a new contract. (let the new private crossing user take up the issue of failure to disclose with the former owner, real estate and title people who have caused the problem.)

(Q4) Is there a need for alternative dispute resolution mechanisms to handle disputes that may arise between private crossing owners and the railroads.

[A4] At some point, YES. However that mechanism should not be left to be administered at the city or county level because that is a major source of the problem. Even at the state level (DOT, Public Utilities Commission, Railroad Commission, etc.), there is a startling lack of competent/ qualified administrators with any railroad background.

Also, some future determination of use of those private crossings ought to be made where crossings to serve "landlocked" land parcels no longer applies, thus allowing removal of a dangerous crossing only left in place as a convenience or shortcut. This should also apply to developers subdividing adjacent lands demanding a public crossing and "a second private crossing for emergency access" required by local government planners that creates unwanted risk(s) at that second crossing and unwanted uses of that second crossing.

(Q5)Should the State or federal government assume greater responsibility for safety at private crossings?

[A5]No, unless the state can force the private user to comply and join in a binding contract - or face loss of the use of a private crossing for not shouldering some of the responsibility. [Consequences for ignoring what ought to be common sense]

(Q6) How do we determine when a private crossing has a "public purpose" and is subject to public use?

[A6] That mechanism is already in place in most states with their Public Utilities Commissions, Railroad Commissions, Commerce Commissions, et. al. with the application/ decision processes already in use. What needs to be stopped is the unexplainable thinking that exists in some county and local government agencies that they can tell a railroad what to do without dealing with state and/or federal regulations on the books (Iowa and Ohio as example), without consulting with the railroad (crossing by local decree). Model law, such as what is in effect for railroad side clearances, would be a help and might prod states with ambiguous and hopelessly lopsided crossing laws (like Iowa) to re-write their state regulations.

(Q7)Should some crossings be categorized as "commercial crossings" rather than "private crossings"?

[A7] Only if it is a subset of private crossings or railroad company use crossings. If those commercial users of that crossing, that benefits them, do not want to assume risk for use of the crossing, then the answer is an emphatic NO. The public and the railroad should not subsidize or underwrite these crossings.

(Q8)Are there innovative traffic control treatments that could improve safety at private crossings on major rail corridors, including those on which passenger service is provided?

[A8] The technology exists, but as with public crossings (Section 400 funding) , the issue is who will pay for it? Under most conditions, it shouldn't be only the railroad. The railroad should not have to pay, with a few exceptions, for a private crossing's protection that is of no benefit to the railroad and should be preferably removed.

(Q9)Should the Department of Transportation request enactment of legislation to address private crossings? If so, what should it include?

[A9]

(1) Modify the existing Federal DOT Form 6180.71 to show, with private crossings, followed later by public crossings and railroad company use private crossings, the user of record and where an agreement exists to own, operate or maintain that crossing identified by railroad contract or in the public record. Have the railroad enter what record it has (49CFR1201 etc.) followed by the state agency now maintaining those records. For all new and just-retired crossings, from implementation date forward, have this information filled in.

State agencies and the railroad need to identify undocumented crossings that can be closed/removed after public notice. Counties need to notify adjoining landowners of possible removal in order to identify possible owner/users of record. (something that should have happened years ago when FRA/DOT mandated crossing reductions)

(2) Require states to post change of ownership or use of a private crossing as part of the transfer process in any land sale, lease or transaction that directly affect that crossing. (Put the onus on the title companies, real estate people and buyer/seller to account for the private crossing and its use- or lose use of it.)

(3) Require state and local agencies to document their right to use any at-grade crossing, public or private. (Expect local government and agencies to report poor recordkeeping or lack of (missing) records as a given. Railroad records, post Staggers Act will also have "issues")



Lewis S. "Mike" Eidson  
President

255 Aragon Avenue  
Coral Gables, FL 33134  
305-476-7400  
305-476-7444 Fax

December 6, 2006

Ron Ries  
Office of Safety  
Federal Railroad Administration  
1120 Vermont Avenue, NW  
Washington, DC 20590

**Re:   Safety of Private Highway-Rail Grade Crossings; Notice of  
Safety Inquiry  
Docket No. FRA-2005-23281**

Dear Mr. Ries:

The Association of Trial Lawyers of America (ATLA) hereby submits comments in response to the Federal Railroad Administration's (FRA) Notice of Safety Inquiry (Notice) soliciting comments on safety issues at private highway-rail grade crossings. *See* 71 Fed. Reg. 55543.

ATLA, with 55,000 members in the United States, Canada and abroad, is the world's largest trial bar. It was established in 1946 to safeguard victims' rights, strengthen the civil justice system, promote injury prevention, and foster the disclosure of information critical to public health and safety. ATLA believes that the federal government should not assume greater responsibility for safety at private crossings. The railroads are in the best possible position to assume the greatest responsibility for safety. Further, ATLA supports the use of alternative dispute mechanisms to handle rail safety disputes so long as the use of any such mechanism is non-binding and voluntarily agreed to by both parties.

**I.     The Federal Government Should Not Assume Additional  
Responsibility for Safety at Private Crossings**

**A.     Railroads Should Assume the Greatest Responsibility for  
Safety**

The FRA's rail safety audit indicated that there was an 11 percent increase in railroad grade crossing fatalities between 2003 and 2004.<sup>1</sup> The audit also clearly recognized that the possibility of collisions at grade crossings poses an increasing threat to the traveling public and presents many challenges for federal government oversight.<sup>2</sup>

<sup>1</sup> *Audit of Oversight of Highway-Rail Grade Crossing Accident Reporting, Investigations, and Safety Regulations*, Federal Railroad Administration, Report No.: MH-2006-016, at 2 (issued Nov. 28, 2005) ("FRA Audit").

<sup>2</sup> *Id.* at 4.

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In order to address this issue, the FRA Notice listed ten questions as topics for comments and consideration. One question asked whether the state or federal government should assume greater responsibility for safety at private crossings. ATLA believes this question misses the mark.

ATLA believes the railroads should assume full responsibility for rail (or public) safety at private crossings. Private highway rail grade crossings generally are governed by contracts between the railroad and the owner of the land upon which the private crossing is situated. Such contracts generally are negotiated for a time certain (likely one year) and either party has the right to terminate the agreement thereafter upon thirty days written notice. Therefore, the responsibilities of the parties are subject to the terms negotiated in the agreement. These contracts usually impose the duty to maintain safety upon the railroad company,<sup>3</sup> because it is in a unique position to be aware of hazards at crossings given that its operators pass through the crossings on a regular basis. Because the terms of these contracts vary depending upon the parties and the circumstances at each crossing, the FRA cannot and should not attempt to interject itself into existing and future contracts between the railroad and private individuals. No railroad should be relieved as a matter of law or regulation from any duty to keep a private crossing safe. Shifting the burden away from the entity with the most knowledge (i.e., the railroad) is bad public policy.

#### **B. Federal Funds Cannot Be Used to Address Safety at Private Crossings**

Traditional federal crossing safety improvement funds cannot be used for improvements at or for private crossings.<sup>4</sup> Congress only made limited high-speed rail funds available for crossing safety improvements (including private crossings) if the improvements would facilitate high-speed rail operations.<sup>5</sup> Lawmakers have barred additional program options of this type based on concerns over spending public funds for private infrastructure. Administrators of public funds generally are very concerned about expenditures that might be viewed as “improving” personal property. Therefore, the federal government cannot assume greater responsibility at private crossings, because it is prohibited from utilizing federal funds for this purpose.

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<sup>3</sup> However, in certain cases, there is unequal bargaining power between large, well-funded railroads and smaller individual property owners. These railroads often delegate the duty to maintain the crossing’s safety to the property owner. Certain landowners might agree to whatever provisions are necessary in order to obtain lucrative private crossing contracts. Therefore, contracts in which railroads delegate this duty should be carefully scrutinized. *See infra* Part II(A).

<sup>4</sup> Federal Railroad Administration, Highway-Rail Crossing Program, <http://www.fra.dot.gov/us/content/86>. *See also* Georgia Department of Transportation, <http://www.dot.state.ga.us/dot/operations/traffic-safety-design/SubUnit/rrfaq.shtml>.

<sup>5</sup> The Intermodal Surface Transportation Efficiency Act of 1991, P.L. 102-240.

### **C. Recent Data Indicates Problems with Federal Government Oversight**

The federal government cannot, and should not, be the sole body in charge of railroad safety. Federal regulations require railroads to report *all* highway-rail grade crossing incidents (public and private) regardless of the extent of damages and, as a result, public transportation authorities appear already to be overwhelmed by their responsibilities.<sup>6</sup> According to the FRA, railroads failed to report 21 percent of reportable public grade crossing collisions to the National Response Center (NRC).<sup>7</sup> The FRA's analysis showed that 115 collisions, which resulted in 116 fatalities, were reported to the FRA within 30 to 60 days after the collision, as required, but that was too late to allow federal authorities to promptly decide whether to conduct an investigation.<sup>8</sup>

Federal regulations also require the FRA to investigate all rail transportation incidents (public and private) that result in the death or injury of five or more persons or "when it appears that an investigation would substantially serve to promote railroad safety."<sup>9</sup> This is particularly troubling given that the FRA investigated only 9 of the 3,045 grade crossing collisions that occurred in 2004, and from 2000 to 2004, the FRA investigated only 13 percent of the most serious crossing collisions that the railroads reported.<sup>10</sup> Clearly, the flawed railroad safety system must be fixed to ensure that railroads are held accountable for critical safety issues, but the federal government lacks adequate resources to take on these additional responsibilities.

## **II. Alternative Dispute Mechanisms Are Suitable to Handle Rail Safety Disputes Subject to Certain Conditions, But the FRA Should Carefully Scrutinize Contracts Requiring Such Procedures**

### **A. Alternative Dispute Mechanisms Should Only Be Used When They are Non-Binding and Voluntarily Agreed to By Both Parties**

ATLA supports the use of alternative dispute resolution (ADR) where the process is non-binding and voluntarily agreed to by both parties. If the ADR provision in a contract meets these requirements, the process can provide a fair outcome to both parties and help to alleviate overcrowded dockets in the judicial system. Mandatory ADR, however, interferes with an individual's constitutional

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<sup>6</sup> 49 C.F.R. § 225.19(b).

<sup>7</sup> *Id.*

<sup>8</sup> *Id.* at 6-7.

<sup>9</sup> 49 C.F.R. § 225.31(a).

<sup>10</sup> FRA Audit at 7.

right to a jury trial<sup>11</sup> and limits the right of ordinary citizens to get redress or compensation for injuries.

ATLA's concerns regarding mandatory ADR generally do not apply where the parties are part of a collective bargaining agreement in which both sides have equal bargaining power. In a contract between a railroad and an individual owner of a land where a private crossing is situated, it is unclear whether the parties have equal bargaining power and whether any ADR language has been fully negotiated. An unequal distribution of bargaining power could result in arbitration clauses that include numerous unsatisfactory provisions which allow companies to select the arbitrators, set the arbitration in a location convenient for the company, exclude certain recoveries such as punitive damages against the railroad, shorten the statute of limitations, deny discovery, and eliminate the individual owner's right to appeal.<sup>12</sup> In situations where the FRA suspects an unequal bargaining power between the contracting parties, the agency must carefully scrutinize these contracts to determine if they include ADR mechanisms and, if so, whether they were voluntarily agreed to by both parties.

#### **B. ADR's Contributions to the Legal System are Mixed**

While ADR may have made contributions to our legal system, it is important to note that ADR has not been the solution to the nation's crowded court dockets that many had once hoped. Scholars have concluded that "while binding arbitration may well be preferable from the standpoint of certain segments of society – particularly large companies that draft the terms and court administrators and judges who can reduce their own workload – there is no reason to believe that society as a whole is better off with binding arbitration."<sup>13</sup>

The use of ADR has not significantly reduced the average time to dispose of civil lawsuits, or the average public or private expense to litigate cases.<sup>14</sup> As arbitrations increase in their complexity, they can become just as expensive as litigation.<sup>15</sup> As a result, arbitration costs can act as a barrier to the vindication of a

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<sup>11</sup> U.S. Const. amend. VII.

<sup>12</sup> Jean R. Sternlight, *Panacea or Corporate Tool?: Debunking the Supreme Court's Preference for Binding Arbitration*, 74 Wash. U. L. Q. 637, 638 (Fall 1996). Railroad companies are more likely than landowners to be involved in successive arbitration proceedings, because a locomotive may traverse numerous private crossings daily. Once a railroad company has selected an arbitrator who gives the company a favorable result, the company may select and pay the same arbitrator in future proceedings, resulting in a natural bias, as the arbitrator will be more likely to give the company favorable results in exchange for future business.

<sup>13</sup> *Id.* at 643.

<sup>14</sup> Deborah H. Hensler, *Our Courts, Ourselves: How the Alternative Dispute Resolution Movement is Re-shaping our Legal System*, 108 Penn St. L. Rev. 165, 195 (Summer 2003).

<sup>15</sup> 74 Wash. U. L. Q. at 694.



party's statutory rights.<sup>16</sup> Although ADR proponents argue that resolving a case through arbitration is cheaper than resolving a case through trial, the fact is that litigants dispose of most claims prior to trial.<sup>17</sup> Accordingly, the FRA should carefully consider not only the potential benefits but also the challenges associated with the process before the agency issues any regulations regarding ADR mechanisms.

ATLA appreciates this opportunity to submit comments in response to the Agency's Notice of Safety Inquiry regarding private highway-rail grade crossings. If you have any questions or comments, please contact Gerie Voss, ATLA's Regulatory Counsel at (202) 965-3500 ext. 748.

Sincerely,

A handwritten signature in black ink, appearing to read "Lewis S. Eidson". The signature is fluid and cursive, with a prominent initial "L" and "E".

Lewis S. "Mike" Eidson

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<sup>16</sup> *Green Tree Finance Corp. v. Randolph*, 531 U.S. 79, 89-91 (2000). Where a party cannot afford the costs of arbitration, the arbitration provision cannot be exercised.

<sup>17</sup> 74 Wash. U. L. Q. at 694 (citing Richard L. Marcus et al., *Civil Procedure: A Modern Approach*, 102-04 (2d ed. 1995) (observing that most legal claims are not litigated, and that only 3% of litigated claims are actually tried)).

As a private crossing owner I would like to add the following:

Points/History:

The UCTC (Ulster County Transportation Council MPO) is presently working on a 30-year strategy for transportation growth.

CSX is looking to re-establish a double rail system to handle their proposed expansion from approximately 34 trains per day to 54 trains on a daily basis.

The Town of Saugerties Economic Development zone, a Federal highway, runs along Kings Highway, parallel to the railroad. This three mile stretch of road has eleven of the town's 14 at-grade crossings. Only two of those crossings are protected by lights and gates. In fact, over the years, there has been an accident and/or death at every crossing. The frequency is increasing as the traffic and population increases.

On April 7, 2005, I became more personally effected. My husband, Joe, was killed in a train/car collision at our own private at-grade crossing.

Conditions along the railroad have been deteriorating since CSX assumed ownership of the Conrail line. The number of trains have increased while the maintenance has decreased.

Foliage is no longer maintained or removed from the CSX right-of-way. RR methods of stone shuffling and replacement increase the grade at the access points each year; the steeper grade reduces the visibility.

There are no CSX stop signs or other safety devices at the crossings...although CSX DID take the initiative to post signs containing 800 numbers to call in case the tracks were blocked by something that might put the train in danger! Residents have taken matters into their own hands to reduce the danger...widening the exit/entrance approaches...posting their own stop signs, etc.

Train speeds have increased along with the increased need to move freight economically.

Suggestions:

Immediately impose speed limits in residential and industrial areas with at grade crossings. At present, CSX follows only suggested speed limits they themselves have established (often times, without any input from the Town or County)

Install Standard stop signs and blinking caution lights. The lights would be activated by a signal from the locomotive when it was within 1/2 mile of the crossing.

Re-consider the location of the horns on the engines...approximately two years ago, the horns were moved from the front of the engines to the rear of the locomotive, behind the air conditioning units. This move has caused the warning signals to radiate out to the side of the train and can only be heard when the train actually passes the crossing. This has also triggered many requests for "quiet Zones" in our area.

Close the at-grade crossings, consolidating and redirecting the traffic to crossings with lights and gates via "collector" roads.

Return to former practices of educating the public (Stop-Look-Listen programs in schools and public meetings).

Thank you for the opportunity to imput suggestions and words of caution.

Sincerely,  
Barbara L Budik  
UCTC Member  
Chairman, Saugerties EDC  
Private Crossing Owner

BEFORE THE UNITED STATES DEPARTMENT OF TRANSPORTATION  
FEDERAL RAILROAD ADMINISTRATION  
WASHINGTON, D.C. 20590

Safety of Private Highway-Rail  
Grade Crossings; Notice of Safety  
Inquiry

Docket No. FRA 2005-23281

**COMMENTS OF RIO GRANDE PACIFIC CORPORATION AND  
NEW ORLEANS & GULF COAST RAILWAY COMPANY**

**November 29 2006**

**LAWRENCE J. ERNST - BAR #5363**  
**MARY BETH MEYER - BAR #19367**  
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Attorneys for Rio Grande Pacific Corporation and  
New Orleans & Gulf Coast Railway Company

**I. SUMMARY OF COMMENTS BY RIO GRANDE PACIFIC AND NEW ORLEANS & GULF COAST RAILWAY**

The only truly effective way to reduce the safety risks presented by private crossings is to eliminate as many private crossings as possible. A unifying federal approach is needed. Railroads must be recognized as interstate highways of commerce that must be allowed to operate without the interference and added risk of accidents and derailments caused by private crossings. Railroads must be able to control activities on the railroad right-of-way. Railroads must be given practical means of preventing new and expanded uses of existing private crossings and of eliminating existing private crossings wherever possible.

Rio Grande Pacific Corporation and New Orleans & Gulf Coast Railway Company urge the FRA to employ its regulatory authority or to support enactment of federal legislation giving the FRA authority to regulate private crossings as follows: (1) to give railroads the option to file suit in federal court to prevent landowners from installing unpermitted crossings on the railroad right of way and/or to remove crossings that pose safety hazards or interfere with railroad operations; (2) to establish uniform standards for design, construction and warnings to increase driver safety at private crossings and to ensure adequate drainage and reduce interference with track maintenance; (3) to establish alternative dispute resolution or administrative proceedings for the inexpensive, fair and speedy resolution of private crossing disputes; and (4) to establish a presumption that private crossings are hazardous and disfavored as a matter of federal law and that conflicting state laws are preempted.

The railroad's lack of access to federal court to challenge landowners' unpermitted use of the railroad right-of-way for crossings and the absence of uniform federal laws, procedures and standards for construction, permitting and closure of private crossings is a major obstacle to increasing safety by reducing the number of private crossings. The Railroads' only option at present is to seek recourse in hostile state courts applying divergent state property laws that tend to favor local landowners. Even when successful, state court litigation is very expensive and time consuming.

Federal transportation funds should be allocated for closing private crossings. States need money to build access roads to consolidate crossings. Funds should also be made available through grants or loans to enable landowners and/or railroads to acquire access rights and build private roads for alternate access to enable consolidation and elimination of crossings.

Lack of public funding is only part of the problem. So long as the law continues to favor the rights of landowners to insist on private crossings as a matter of convenience, there is no hope of progress even if reasonable levels of funding were made available to close crossings. Private railroad crossings should be presumed to be against public safety and disfavored as a matter of federal law, so as to shift the legal burden to landowners to prove necessity and entitlement in order to install or maintain private crossings. This step would give landowners incentive to seek public solutions for alternative access and/or to work cooperatively with neighbors and the railroad to find practical and affordable solutions.

Private crossings interfere with railroads' compliance with FRA track safety standards. The construction of crossings imposes additional and conflicting structural requirements and incorporates materials into the track structure that conflict with the FRA's requirements and standards for the roadbed and track structure. Crossings trap moisture, interfere with drainage and lead to premature deterioration of the underlying roadbed and track components. Crossings make regular maintenance of the roadbed and track much more difficult and costly. Regulatory standards or guidelines are needed to mitigate the inherent safety risks and harmful effects of crossings on railroad maintenance.

## **II. DISCUSSION OF RIO GRANDE'S AND NOGC'S EXPERIENCE WITH CONSOLIDATION AND CLOSURE OF PRIVATE CROSSINGS**

Rio Grande Pacific Corporation is a short line and regional railroad holding company founded in 1986 that owns four Class III railroads with operations in six states, the Idaho Northern and Pacific Railroad, The Nebraska Central Railroad, Wichita Tillman and Jackson Railway Company, the Thunder Mountain Line and New Orleans & Gulf Coast Railway Company. Rio Grande's subsidiaries have encountered many of the same legal obstacles identified in the previous meetings in Minnesota, North Carolina and California and learned from hard experience how difficult it is to meet the FRA's challenge to reduce the number of private crossings. Dealing with private crossings is exceptionally expensive and complicated. Landowners are the only ones deriving an economic benefit from private crossings and rightfully should bear the expense of construction and maintenance. However, landowners are generally unwilling to accept responsibility for the expense of properly constructed crossings, even when they are required by law to do so. Regulations and property laws vary widely from state to state. The absence of clear legal authority permitting railroads to close private crossings or legal standards or procedures for permitting private crossings has frustrated the railroads' efforts in the face of strong resistance on the part of landowners and nearly total absence of political will on the part of elected local officials, judges and lawmakers to address private crossing safety.

It is bad enough that the lack of federal standards leaves the railroads without the tools to prevent people from building crossings wherever and however they want. Even worse, the very absence of federal regulation in the private crossing area has actually been used against the railroad by opponents who wish to stymie railroad efforts to limit crossings. The FRSA statutory scheme generally bars the railroad in all but exceptional situations from filing suit in federal court where the judges who preside are less captive to the prejudices of voters and presumably more attuned to protecting federal interests in interstate transportation and commerce. The current FRSA enforcement scheme presents an exceptionally complicated and irrational checkerboard of federal preemption barring application of some, but not all, state safety laws and regulations. Although state laws that are in addition to and conflict with federal safety laws and regulations, are generally preempted, as a practical matter, determining which state laws are in addition to and conflict with federal laws and regulations is far from clear and inevitably leads to costly and time consuming litigation.

The ill-fated efforts of Rio Grande's subsidiary, New Orleans & Gulf Coast Railway Company, present a case study of the insurmountable problems facing railroads who have accepted the FRA's challenge of closing private crossings in the interest of public safety.

Louisiana, along with the majority of other states, does not regulate private crossings or establish safety standards for construction of private crossings or provide procedures for adjudicating whether new private crossings should be permitted or for closing existing crossings. NOGC's efforts to limit and close crossings have been met with widespread resistance and outright hostility on the part of local officials and landowners alike. Landowners have gone to court and obtained restraining orders from sympathetic state court judges preventing NOGC from removing redundant, worn out and improperly built crossings -- even when the closure would have left the property with another crossing for necessary highway access.

NOGC and its predecessors fortunately have had very few serious accidents at either public or private at grade crossings, but NOGC is well aware that this record should not instill a false sense of safety. To the extent that crossings are considered at all, they are perceived to be the railroad's responsibility -- and sole problem. The commonly held, though false, local attitude is that private crossings do not present a public safety problem because: (a) there have not been any major accidents or fatalities at private crossings, and (b) NOGC's slow operating speed (10 mph) eliminates any safety risk.

NOGC is currently litigating with landowners over its right to prevent construction of new crossings or to deny permits for expanded use of field crossings. Unfortunately, after several years and great expense, NOGC's federal lawsuit was recently dismissed for lack of federal jurisdiction and is on appeal to the U.S. Fifth Circuit Court of Appeals. NOGC must start over in state court.

#### **A. Background and Scope of NOGC's Private Crossing Problem**

NOGC operates 32 miles of main line track serving over twenty switching and industrial customers in the New Orleans area via interchange with the Union Pacific Railroad in Westwego, Louisiana. NOGC is the only railroad operating east of Avondale on the West bank of the Mississippi River and is the only rail link for such customers as ConocoPhillips Alliance Refinery, Harvest States grain elevator, Chevron Oronite refinery, Packard Pipe, the Port of Plaquemines and the proposed Millennium Port at the mouth of the Mississippi River.

When NOGC bought the railroad in 1999, the 24 mile Algiers to Myrtle Grove line was burdened with 276 public and private at grade railroad crossings. With a per mile average of 11.5 crossings per mile, it is surely one of the highest ratios of crossings anywhere in the country. Some stretches have as many as 30 per mile. Only 57 are public crossings. Of the private crossings; 111 are industrial, commercial or multi-family crossings; 23 are agricultural, undeveloped property or pedestrian crossings; and 85 are for single family residential use. Nearly half of the private crossings are gravel "bootleg" crossings installed by landowners without the permission or supervision of the railroad.

The disproportionately large number of crossings on NOGC's line is the result of a combination of factors:

- Louisiana Highway 23 lies adjacent to and parallels the NOGC's tracks for most of its length. This is the only north south highway that runs through a long narrow strip of

Mississippi River delta. The tracks cut off access to the highway from a narrow strip of land on the river side of the tracks. Roads that once fronted the river were eliminated by levee officials or fell out of use once Highway 23 was built, leaving no alternative access roads on that side of the tracks.

- The recent unchecked residential and commercial growth and change in use of previously agriculture property on the river side of the tracks;
- The lack of any regulation of public crossings at either the state or federal level;
- The complete lack of planning by State and local governments and absence of sufficient public road crossings and/or access roads; and
- Laxity of enforcement of property rights and failure by predecessor railroads to respond to evolving changes in use of crossings by landowners and to prevent installation of new crossings as properties were subdivided.

This railroad was originally built in 1888 by the New Orleans, Fort Jackson and Grand Isle Railroad. The railroad was originally built across largely undeveloped swamp and agricultural lands. The State built the highway alongside the tracks 30 or more years later. Historic railroad maps indicate that 64 plantation crossings were provided along this 24 mile stretch at the time the railroad was built, an average of 2.6 per mile. No deeds or other records setting the terms by which these agricultural crossings were established have survived due to hurricanes and courthouse fires. The use of many of these original crossings changed over time and the number of crossings grew as the plantations were repeatedly subdivided over the years. In many instances, landowners failed to exercise legal rights to use the original crossings and railroads tacitly allowed the installation and use of new crossings rather than enforce their property rights.

NOGC operates its trains at 10 mph over its entire line even though its route consists of both Class 1 and Class 2 rated track, in part to minimize the risk of accidents. There is a widespread tendency among local motorists to disregard traffic signs and pull out in front or outrun trains with little concerted law enforcement effort to curb such behavior. The large number of at grade railroad crossings multiplies the points of contact between moving trains and automobiles, increasing the probability of crossing accidents and derailments. The risk of accidents is increased by the lack of minimum safety standards for engineering of approaches, drainage, surface, sight distances, lighting, signage and automated warnings at private crossings. NOGC cannot ensure the safety of its operations or increase efficiency by increasing train speed to meet the anticipated industrial growth in its service area if it cannot eliminate a significant number of these crossings. NOGC has been forced to redirect its resources to private crossing maintenance issues rather than investing in upgrading its roadbed infrastructure.

#### **B. NOGC's Efforts to Address the Private Crossing Problem**

NOGC bought the line in 1999 and immediately launched a multi-front effort to eliminate as many private crossings as possible. NOGC engaged GCR Associates, a highly regarded



professional planning firm to survey, inventory and map each crossing, identifying its location, construction and use and then to prepare a closure and consolidation plan. GCR identified clusters of crossings that could be consolidated by use of access roads leading to public crossings or upgraded protected private crossings. NOGC sought to educate and enlist the support and cooperation of State and Parish officials about this public safety and infrastructure issue, using the planning proposals as a starting point. At the same time, NOGC began posting and removing redundant and unused crossings and focused on preventing new crossings and expanded uses of existing crossings. NOGC initiated a permit application and review process and required written agreements imposing indemnity and insurance requirements and clearly assigning responsibility for construction and maintenance to those wanting private crossings.

NOGC has had a high level of cooperation from its refinery customers and larger retail establishments who have agreed to permits and funded construction of properly engineered crossings and installation of active and passive safety devices. NOGC has otherwise encountered strong resistance from residential and commercial users.

Despite NOGC's efforts, state and local officials have not been supportive. The Louisiana DODT and local parish officials generally have cited the lack of available funding for reducing the number of private crossings. Even if resources were not a problem, it became apparent that there is a complete lack of political will to address an issue that is so unpopular with constituents. In some instances, lack of support has turned to active resistance. Parish officials have continued to approve new subdivisions without requiring developers to confirm access rights and without adequate construction and engineering standards for private crossings, and have allowed public dedication of improperly constructed and unprotected subdivision crossings and have failed to correct obstructed sight lines. Local officials sought enactment of an amendment to the major public crossing closure legislation enacted by the Louisiana legislature in 2005, specifically to impede closure of railroad crossings along Highway 23. *See* La. Rev. Stat. § 48:390(F).

### **III. NOGC'S RESPONSE TO FRA SPECIFIC AREAS FOR COMMENT**

#### **I. At-Grade Highway-Rail Crossings Present Inherent Risks To Users, Including The Railroad And Its Employees, And To Other Persons In The Vicinity Should A Train Derail Into An Occupied Area Or Release Hazardous Materials. When Passenger Trains Are Involved, The Risks Are Heightened. From The Standpoint Of Public Policy, How Do We Determine Whether Creation Or Continuation Of A Private Crossing Is Justified?**

##### **A. Private Crossings cannot be justified in the interest of public safety**

Every crossing increases the likelihood of accidents and derailments. NOGC's trains regularly transport tank cars carrying hazardous and toxic materials for NOGC's refinery customers and pass through densely populated residential and commercial areas in very close proximity to the Mississippi River and coastal waters, wetlands and marshes. Authoritative federal laws or regulations are needed to overcome the lack of political will and lack of local resources for eliminating and/or limiting private railroad crossings and to avoid the inherent prejudice of local courts and operation of state property laws that generally favor landowners.

One approach would be federal laws or regulations establishing that private railroad crossings are presumed to be against public safety and disfavored as a matter of law and to shift the legal burden to landowners to prove necessity and entitlement in order to install or maintain private crossings. This change in the law would provide necessary uniformity nationwide. This approach would give landowners the incentive to seek public solutions for alternative access and/or work cooperatively with neighbors to find practical and affordable solutions.

A unified federal solution is needed because state property laws are generally not attuned to specific safety issues at stake when the railroad attempts to limit access to the right of way for safety reasons. General tort laws are ill equipped to ensure public safety at private crossings. For example, the Louisiana statutory scheme for preventing landlocked properties from being removed from commerce by allowing the owner to cross over neighboring properties to reach the nearest public street is overwhelmingly oriented in favor of the individual landlocked owners and is clearly not designed to account for the public safety implications of permitting multiple railroad crossings side by side. The landlocked property laws were designed to resolve isolated cases in the agricultural era and are clearly not equipped to take the place of appropriate public planning and infrastructure in developing commercial and suburban areas. Many landowners have failed to exercised property rights against their vendors to use existing crossings for access, but have installed new crossings for convenience. Crossings were allowed to remain on sufferance rather facing costly and losing court battles.

Louisiana is among the majority of states that elect judges. It is extremely difficult for elected judges who must be responsive to the electorate to make decisions unfavorable to local landowners, even in the broader interest of public safety and welfare. Although lifetime appointments shield federal judges from the electoral pressures facing state court judges, federal courts are courts of limited jurisdiction and generally have not been deemed available to resolve property law disputes involving private railroad crossings, even when federal safety and economic regulations are implicated. It is anomalous that although the railroad industry is overwhelmingly governed by federal laws and regulations to ensure against enforcement of state laws that would impede their operation in interstate commerce, nevertheless, railroad lawsuits may be initiated in federal court only in exceptional circumstances.

Any procedure to evaluate the public utility of private crossings must give proper weight to the public welfare and account for the positive impact of railroad transportation as an environmentally responsible and safe alternative to transport by motor carrier. The economic impact of private crossings on railroad operations must also be addressed because private crossings increase liability exposure and redirect railroad time and resources away from essential track maintenance and inspection operations. Landowners must be responsible for installation and ongoing maintenance and upgrades for crossings engineered for site conditions and use. Landowners must maintain appropriate insurance and indemnify railroads against injuries and losses associated with crossing use.

**B. Unregulated Private Crossings Create Conflicts with Other Safety Regulations**

An overlooked consequence of private crossings that is highly relevant to the discussion of public policy is that the existence of unregulated private crossings directly and substantially conflicts with and impedes the Railroads' ability to maintain the track structure in accordance with the Track Safety Standards (49 CFR Part 213), which is one of its defined areas of responsibility. Crossings create additional safety issues and conflict with FRSA safety regulations that have not been previously addressed in these proceedings. First, large numbers of private crossings may counteract the effectiveness of the regulations requiring the sounding of locomotive horns at public crossings. *See* 49 C.F.R. § 222.1 *et seq.* Because of drivers' frequent inattention to trains and tendency to disregard of warning signs and signals, NOGC's engineers sound the locomotive horn at all crossings to warn of the approach of trains even though the regulations specifically do not require the sounding of horns at private crossings. 49 C.F.R. § 222.25. Where there are so many crossings in close proximity, train engineers are unable to blow the horn in the intended sequence and must blow a continuous blast. This situation allows motorists to become conditioned to the horn as background noise and increases the risk that motorists will fail to recognize the warning.

Installation of crossings also interferes with, adds to and conflicts with existing specific FRA track safety regulations relating to the construction and maintenance of the roadbed and track structure. 49 C.F.R. § 213, *et seq.* These provisions are intended to ensure that the roadbed and track provide the necessary structural support for railroad traffic and thereby reduce the risk of derailments. Insuring sufficient structural support has become more challenging as the permissible gross-weight-on-rail capacity of cars has increased over recent years. Crossings interfere with the roadbed and track structure in the following ways:

- Crossing materials impose additional and incompatible forces and materials on the standard road bed structure.
- Crossing materials trap moisture and interfere with proper drainage, thereby accelerating the deterioration of crossties and fouling of the ballast.
- Crossings interfere with visual inspection of the roadbed and track.
- The roadbed under crossings tends to settle at a different rate than for open track.
- Crossings render regular maintenance of the roadbed and track far more difficult and costly because crossing materials must be removed and replaced each time this work is performed. Mechanized tamping machines and ballast regulators are used to efficiently perform the track surfacing and alignment of the track. This work is needed to compensate for differential settlement, to correct discrepancies in cross-level, profile, and alignment and to refresh and replace fouled ballast. Differential settlement at crossings is exaggerated if crossings are skipped over. Removal and replacement of crossings so this work can proceed is very labor intensive and increasingly expensive.
- The need to remove crossings to perform required maintenance and the expense of replacing them acts to trigger confrontation between the landowners and railroad over who is responsible for the expense of installing and maintaining crossings.

These additional and cumulative crossing-related costs are substantial and impose an economic burden on short line railroads, in particular, which are generally small businesses which do not have unlimited resources. The inevitable result is that the railroads must divert and redirect significant funds away from, and to the detriment of, the maintenance and upgrading of the track and roadbed infrastructure as needed to increase efficiency and improve service to its shippers and future customers.

**II. Is The Current Assignment Of Responsibility For Safety At Private Crossings Effective? To What Extent Do Risk Management Practices Associated With Insurance Arrangements Result In “Regulation” Of Safety At Private Crossings?**

At present, there is no clear assignment of responsibility for safety at private crossings. There are no federal laws or regulations directly assigning responsibility for private crossings. There is no uniform law or policy assigning responsibility for safety at private crossings from state to state. The railroads’ specific regulatory role with respect to safety at *public* crossings is quite limited, however, that role vis a vis public crossings may provide an appropriate starting point for allocating railroad responsibility for private crossings.<sup>1</sup> As a practical matter, railroads bear a disproportionate share of responsibility and potential liability for private crossing safety.

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<sup>1</sup> The FRA Safety Advisory 2005-03; Highway-Rail Grade Crossing Safety, issued May 2, 2005, 70 FR 22750-22754, summarized the responsibilities owed by railroads to the FRA, acting on behalf of the public, that relate to *public* highway-rail grade crossing safety, as follows:

1. Inspect, test, and maintain grade crossing warning systems in accordance with 49 CFR Part 234 . . . .See FRA Safety Advisory 2002-1 (67 FR 3258; 01/23/2002) and FRA Safety Advisory 2004-03 (69 FR 48904; 8/11/2004).
2. Report all activation failures in writing within 15 days (49 CFR 234.9).
3. Maintain track structure in accordance with the Track Safety Standards (49 CFR Part 213). This includes maintaining adequately drained (non-fouled) ballast that otherwise could permit the existence of low ballast resistance adversely affecting the operation of grade crossing signals (49 CFR Sec. 213.103) and removing vegetation on railroad property that could interfere with preview of grade crossing warning signs and signals, whether active or passive (49 CFR Sec. 213.37).
4. Operate trains in accordance with applicable speed limitations imposed by Federal regulation (49 CFR Parts 213, 234 & 236) and the railroad's operating rules, timetables, and special instructions (see 49 CFR Parts 217 & 240).
5. Provide and maintain locomotive event recorders on all locomotives operating greater than 30 miles per hour, preserving data following any reportable event (49 CFR 229.135).
6. Provide and maintain locomotive auxiliary alerting lights on any lead locomotive operating greater than 20 miles per hour (49 CFR 229.125(d)).

**A. The Threat of Tort Liability Is an Ineffective Deterrent or Incentive for Landowners to Maintain the Safety of Private Crossings**

Private crossing holders are not compelled by any federal law or regulation and few, if any state laws, to bear responsibility for safety at private crossings. Tort liability remains the primary means of assigning overall responsibility for safety. Railroads are generally not responsible for maintaining private crossings under Louisiana law, however, railroads may be held liable for the condition of private crossings if a crossing is known to be defective or if the railroad voluntarily assumed a duty to maintain the crossing. Private crossing holders would be legally liable for accidents attributable to the condition of private crossings and face the threat of tort liability under Louisiana law. The risk of liability, however, has not deterred the proliferation of private crossings or encouraged the consolidation or sharing of crossings. The absence of serious accidents at private crossings along the NOGC line and lack of public awareness may be partially responsible for this. Even though the FRA's statistics have shown that the overwhelming majority of crossing accidents are not due to any fault on the part of railroads, there is nothing to prevent tort plaintiffs from suing the railroad whenever an accident take place at private crossings, even when there is no evidence that the railroad was at fault.

**B. Insurance Is Not a Practical Approach for Managing Risk at Public Crossings**

Managing the risk of private crossings by using insurance arrangements is not a realistic option. There are no federal or state laws or regulations to compel private crossing holders to maintain even minimal liability insurance. NOGC's experience has shown that landowners are either unwilling or unable to carry appropriate levels of liability insurance due to the high cost and a lack of available coverage options, particularly for residential crossings. In connection with its recent discussions with landowners, NOGC asked an independent agent to investigate the availability of liability and property coverage for residential and commercial private crossings after landowners objected to the condition in NOGC's crossing agreement requiring crossing holders to obtain appropriate levels of liability coverage and name NOGC as an additional insured. All home and business owners in Southeast Louisiana are facing an insurance crisis in the wake of hurricane Katrina, with many insurers pulling out of this market altogether or substantially raising rates. The State sponsored insurer of last resort has requested huge rate increases making commercial and residential coverage prohibitively expensive in the near term. Even without this obstacle, the agent was unable to identify any carriers offering policies or endorsements extending such coverage in this marketplace. Whether driveway crossings would be considered part of the covered premises is subject to interpretation under the standard coverage terms in homeowners' policies. Coverage for liability assumed under contract is generally excluded under homeowners' coverage and not available via endorsement.

**III. How Should Improvement And/Or Maintenance Costs Associated With Private Crossing Be Allocated?**

Landowners, as the only ones deriving an economic benefit from the crossings, should rightly bear the expense of construction and maintenance. Railroads derive no economic benefit whatsoever from crossings, but practically speaking must bear the additional costs of crossings

unless they are reimbursed by the parties benefiting from the crossings. Railroads must also shoulder the substantial additional track maintenance costs where track is covered by crossings. Private crossing holders, however, are not compelled by any federal law or regulation and few, if any state laws, to bear responsibility for the cost of installation or upkeep of crossings built to industry standards or to pay for appropriate lighting and signage.

**IV. Is There A Need For Alternative Dispute Resolution Mechanisms To Handle Disputes That May Arise Between Private Crossing Owners And The Railroads?**

Railroads and landowners would benefit from alternative dispute mechanisms for handling disputes over private crossings such as arbitration or administrative hearings. Such a procedure must permit resolution of disputes in a fair, uniform, speedy and cost effective manner. Without fairness, speed and low cost, such a system would merely add a layer of needless administrative expense to the situation.

The standards for determining whether to permit or maintain a private crossing must begin with the uniformly applied presumption that private crossings are safety hazards and are disfavored as a matter of federal law and that conflicting state laws are preempted. The landowner seeking to install or maintain private crossings would bear the burden of proving actual need for the crossing, not inconvenience, and must demonstrate that a crossing can be safely constructed with appropriate visibility, signage and other safety measures and must accept responsibility for the cost of construction and ongoing maintenance. This alternative procedure and presumption would apply notwithstanding a claim of prior right or entitlement pursuant to deed, agreement or prescriptive easement. The required showing of need would require the landowner to pursue whatever legal recourse he may have against the persons who sold or subdivided the property without access and would entail showing that there were no physically feasible and safer alternative options without undue expense. The consideration of undue expense must weigh the present and future construction and maintenance costs to the railroad as well as the costs to the landowner of acquiring and constructing alternative access roads. This change in the law would give landowners incentive to seek public solutions for alternative access and/or work cooperatively with neighbors to find practical and affordable solutions.

To support this effort, funds should be allocated to the States for closure and consolidation of private crossings. These funds could be used directly by State DOTs or localities to build public access roads or made available by means of grants or loans to landowners to acquire property for access and to build private access roads. Railroads could also apply for funds for buy outs if necessary to achieve closures.

**V. Should The State Or Federal Government Assume Greater Responsibility For Safety At Private Crossings?**

The federal government should assume ultimate responsibility and authority for safety at private crossings. There is a virtual absence of state or federal regulation of private crossings. Railroads operate in interstate commerce. A uniform federal approach is necessary and preferable to forcing railroads to comply with a confusing variety of conflicting state regulations and procedures. A federal solution is needed to give the railroads the tools to eliminate and

permit private crossings, to establish standards and to allocate responsibility for liability at and construction and maintenance of private crossings.

**VI. Should There Be Nationwide Standards For Warning Devices At Private Crossings, Or For Intersection Design Of New Private Grade Crossings?**

Federal regulations are needed to adopt, implement and enforce nationwide safety standards for design and construction of crossings and appropriate warning devices at private crossings. The relative lack of existing state regulation establishes both the need and opportunity for establishing a uniform approach to private crossing safety.

**VII. How Do We Determine When A Private Crossing Has A ‘Public Purpose’ And Is Subject To Public Use?**

The determination of whether a crossing is “public” or “private” should consider the safety risks to the public associated with use of a particular crossing rather than the present federal classification of “public” based on whether the road or driveway is maintained by a public body charged with maintaining public streets or roads. As the testimony in prior hearings has indicated, under the present classification, the decision to dedicate a crossing road as a public street is often driven by the desire to avoid responsibility for maintenance and safety rather than an appropriate consideration of actual use of the crossing. The common public perception is that crossings should be considered “public” when they are heavily used by the public. It makes no sense from a safety standpoint to have a different standard for construction of heavily used private crossings than for public road crossings with comparable traffic.

**VIII. Should Some Crossings Be Categorized As ‘Commercial Crossings’, Rather Than As ‘Private Crossings’?**

A more rational approach would be to categorize crossings by volume of traffic and public safety implications of particular uses of crossings rather than purely on ownership and/or maintenance responsibility. Refinery crossings which contemplate limited public access but are used by trucks transporting hazardous materials must be regulated not as commercial crossings, but so as to minimize the risk to public safety. The category of private crossing should apply where measures are taken to restrict access.

**IX. Are There Innovative Traffic Control Treatments That Could Improve Safety At Private Crossings On Major Rail Corridors, Including Those On Which Passenger Service Is Provided?**

The emphasis should be on strengthening the ability of states and railroads to eliminate private crossings. The use of access roads to permit the closure of private crossings and consolidation around a limited number of well constructed and protected crossings is such an innovative approach.

**X. Should The Department Of Transportation Request Enactment Of Legislation To Address Private Crossings? If So, What Should It Include?**

Rio Grande Pacific and NOGC strongly support federal legislation or regulation to address private crossings in the following areas:

1. To establish federal standards for design and construction of private crossings;
2. to allocate responsibility for construction, maintenance and liability for private crossings to the landowners who benefit from private crossings;
3. to establish a private right of action and federal jurisdiction to allow railroads to file suit in federal court to enjoin landowners from installing crossings that interfere with railroad operations, violate safety standards or regulations or present a safety hazard;
4. to establish a presumption that private crossings are safety hazards and are disfavored as a matter of federal law and that conflicting state laws are preempted. Landowners must bear the burden of proving actual need for any new or expanded crossing, not inconvenience and must accept responsibility for the cost of construction and maintenance of a crossing built to federal standards. This presumption would apply over and above a claim of right pursuant to deed, agreement or prescriptive easement.
5. to establish an alternative federal dispute resolution mechanism or administrative procedure for the uniform, fair, inexpensive and speedy resolution of private crossing and permitting disputes; and
6. to provide federal funds for closure of private crossings to States for construction of public access roads for consolidation and closure of crossings or made available by loans or grants to landowners or railroads to acquire access rights and build driveways to consolidate crossings.



BEFORE THE UNITED STATES DEPARTMENT OF TRANSPORTATION  
FEDERAL RAILROAD ADMINISTRATION  
WASHINGTON, D.C. 20590

Safety of Private Highway-Rail  
Grade Crossings; Notice of Safety  
Inquiry

Docket No. FRA 2005-23281

**COMMENTS OF RIO GRANDE PACIFIC CORPORATION AND  
NEW ORLEANS & GULF COAST RAILWAY COMPANY**

**November 29 2006**

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**I. SUMMARY OF COMMENTS BY RIO GRANDE PACIFIC AND NEW ORLEANS & GULF COAST RAILWAY**

The only truly effective way to reduce the safety risks presented by private crossings is to eliminate as many private crossings as possible. A unifying federal approach is needed. Railroads must be recognized as interstate highways of commerce that must be allowed to operate without the interference and added risk of accidents and derailments caused by private crossings. Railroads must be able to control activities on the railroad right-of-way. Railroads must be given practical means of preventing new and expanded uses of existing private crossings and of eliminating existing private crossings wherever possible.

Rio Grande Pacific Corporation and New Orleans & Gulf Coast Railway Company urge the FRA to employ its regulatory authority or to support enactment of federal legislation giving the FRA authority to regulate private crossings as follows: (1) to give railroads the option to file suit in federal court to prevent landowners from installing unpermitted crossings on the railroad right of way and/or to remove crossings that pose safety hazards or interfere with railroad operations; (2) to establish uniform standards for design, construction and warnings to increase driver safety at private crossings and to ensure adequate drainage and reduce interference with track maintenance; (3) to establish alternative dispute resolution or administrative proceedings for the inexpensive, fair and speedy resolution of private crossing disputes; and (4) to establish a presumption that private crossings are hazardous and disfavored as a matter of federal law and that conflicting state laws are preempted.

The railroad's lack of access to federal court to challenge landowners' unpermitted use of the railroad right-of-way for crossings and the absence of uniform federal laws, procedures and standards for construction, permitting and closure of private crossings is a major obstacle to increasing safety by reducing the number of private crossings. The Railroads' only option at present is to seek recourse in hostile state courts applying divergent state property laws that tend to favor local landowners. Even when successful, state court litigation is very expensive and time consuming.

Federal transportation funds should be allocated for closing private crossings. States need money to build access roads to consolidate crossings. Funds should also be made available through grants or loans to enable landowners and/or railroads to acquire access rights and build private roads for alternate access to enable consolidation and elimination of crossings.

Lack of public funding is only part of the problem. So long as the law continues to favor the rights of landowners to insist on private crossings as a matter of convenience, there is no hope of progress even if reasonable levels of funding were made available to close crossings. Private railroad crossings should be presumed to be against public safety and disfavored as a matter of federal law, so as to shift the legal burden to landowners to prove necessity and entitlement in order to install or maintain private crossings. This step would give landowners incentive to seek public solutions for alternative access and/or to work cooperatively with neighbors and the railroad to find practical and affordable solutions.

Private crossings interfere with railroads' compliance with FRA track safety standards. The construction of crossings imposes additional and conflicting structural requirements and incorporates materials into the track structure that conflict with the FRA's requirements and standards for the roadbed and track structure. Crossings trap moisture, interfere with drainage and lead to premature deterioration of the underlying roadbed and track components. Crossings make regular maintenance of the roadbed and track much more difficult and costly. Regulatory standards or guidelines are needed to mitigate the inherent safety risks and harmful effects of crossings on railroad maintenance.

## **II. DISCUSSION OF RIO GRANDE'S AND NOGC'S EXPERIENCE WITH CONSOLIDATION AND CLOSURE OF PRIVATE CROSSINGS**

Rio Grande Pacific Corporation is a short line and regional railroad holding company founded in 1986 that owns four Class III railroads with operations in six states, the Idaho Northern and Pacific Railroad, The Nebraska Central Railroad, Wichita Tillman and Jackson Railway Company, the Thunder Mountain Line and New Orleans & Gulf Coast Railway Company. Rio Grande's subsidiaries have encountered many of the same legal obstacles identified in the previous meetings in Minnesota, North Carolina and California and learned from hard experience how difficult it is to meet the FRA's challenge to reduce the number of private crossings. Dealing with private crossings is exceptionally expensive and complicated. Landowners are the only ones deriving an economic benefit from private crossings and rightfully should bear the expense of construction and maintenance. However, landowners are generally unwilling to accept responsibility for the expense of properly constructed crossings, even when they are required by law to do so. Regulations and property laws vary widely from state to state. The absence of clear legal authority permitting railroads to close private crossings or legal standards or procedures for permitting private crossings has frustrated the railroads' efforts in the face of strong resistance on the part of landowners and nearly total absence of political will on the part of elected local officials, judges and lawmakers to address private crossing safety.

It is bad enough that the lack of federal standards leaves the railroads without the tools to prevent people from building crossings wherever and however they want. Even worse, the very absence of federal regulation in the private crossing area has actually been used against the railroad by opponents who wish to stymie railroad efforts to limit crossings. The FRSA statutory scheme generally bars the railroad in all but exceptional situations from filing suit in federal court where the judges who preside are less captive to the prejudices of voters and presumably more attuned to protecting federal interests in interstate transportation and commerce. The current FRSA enforcement scheme presents an exceptionally complicated and irrational checkerboard of federal preemption barring application of some, but not all, state safety laws and regulations. Although state laws that are in addition to and conflict with federal safety laws and regulations, are generally preempted, as a practical matter, determining which state laws are in addition to and conflict with federal laws and regulations is far from clear and inevitably leads to costly and time consuming litigation.

The ill-fated efforts of Rio Grande's subsidiary, New Orleans & Gulf Coast Railway Company, present a case study of the insurmountable problems facing railroads who have accepted the FRA's challenge of closing private crossings in the interest of public safety.

Louisiana, along with the majority of other states, does not regulate private crossings or establish safety standards for construction of private crossings or provide procedures for adjudicating whether new private crossings should be permitted or for closing existing crossings. NOGC's efforts to limit and close crossings have been met with widespread resistance and outright hostility on the part of local officials and landowners alike. Landowners have gone to court and obtained restraining orders from sympathetic state court judges preventing NOGC from removing redundant, worn out and improperly built crossings -- even when the closure would have left the property with another crossing for necessary highway access.

NOGC and its predecessors fortunately have had very few serious accidents at either public or private at grade crossings, but NOGC is well aware that this record should not instill a false sense of safety. To the extent that crossings are considered at all, they are perceived to be the railroad's responsibility -- and sole problem. The commonly held, though false, local attitude is that private crossings do not present a public safety problem because: (a) there have not been any major accidents or fatalities at private crossings, and (b) NOGC's slow operating speed (10 mph) eliminates any safety risk.

NOGC is currently litigating with landowners over its right to prevent construction of new crossings or to deny permits for expanded use of field crossings. Unfortunately, after several years and great expense, NOGC's federal lawsuit was recently dismissed for lack of federal jurisdiction and is on appeal to the U.S. Fifth Circuit Court of Appeals. NOGC must start over in state court.

#### **A. Background and Scope of NOGC's Private Crossing Problem**

NOGC operates 32 miles of main line track serving over twenty switching and industrial customers in the New Orleans area via interchange with the Union Pacific Railroad in Westwego, Louisiana. NOGC is the only railroad operating east of Avondale on the West bank of the Mississippi River and is the only rail link for such customers as ConocoPhillips Alliance Refinery, Harvest States grain elevator, Chevron Oronite refinery, Packard Pipe, the Port of Plaquemines and the proposed Millennium Port at the mouth of the Mississippi River.

When NOGC bought the railroad in 1999, the 24 mile Algiers to Myrtle Grove line was burdened with 276 public and private at grade railroad crossings. With a per mile average of 11.5 crossings per mile, it is surely one of the highest ratios of crossings anywhere in the country. Some stretches have as many as 30 per mile. Only 57 are public crossings. Of the private crossings; 111 are industrial, commercial or multi-family crossings; 23 are agricultural, undeveloped property or pedestrian crossings; and 85 are for single family residential use. Nearly half of the private crossings are gravel "bootleg" crossings installed by landowners without the permission or supervision of the railroad.

The disproportionately large number of crossings on NOGC's line is the result of a combination of factors:

- Louisiana Highway 23 lies adjacent to and parallels the NOGC's tracks for most of its length. This is the only north south highway that runs through a long narrow strip of

Mississippi River delta. The tracks cut off access to the highway from a narrow strip of land on the river side of the tracks. Roads that once fronted the river were eliminated by levee officials or fell out of use once Highway 23 was built, leaving no alternative access roads on that side of the tracks.

- The recent unchecked residential and commercial growth and change in use of previously agriculture property on the river side of the tracks;
- The lack of any regulation of public crossings at either the state or federal level;
- The complete lack of planning by State and local governments and absence of sufficient public road crossings and/or access roads; and
- Laxity of enforcement of property rights and failure by predecessor railroads to respond to evolving changes in use of crossings by landowners and to prevent installation of new crossings as properties were subdivided.

This railroad was originally built in 1888 by the New Orleans, Fort Jackson and Grand Isle Railroad. The railroad was originally built across largely undeveloped swamp and agricultural lands. The State built the highway alongside the tracks 30 or more years later. Historic railroad maps indicate that 64 plantation crossings were provided along this 24 mile stretch at the time the railroad was built, an average of 2.6 per mile. No deeds or other records setting the terms by which these agricultural crossings were established have survived due to hurricanes and courthouse fires. The use of many of these original crossings changed over time and the number of crossings grew as the plantations were repeatedly subdivided over the years. In many instances, landowners failed to exercise legal rights to use the original crossings and railroads tacitly allowed the installation and use of new crossings rather than enforce their property rights.

NOGC operates its trains at 10 mph over its entire line even though its route consists of both Class 1 and Class 2 rated track, in part to minimize the risk of accidents. There is a widespread tendency among local motorists to disregard traffic signs and pull out in front or outrun trains with little concerted law enforcement effort to curb such behavior. The large number of at grade railroad crossings multiplies the points of contact between moving trains and automobiles, increasing the probability of crossing accidents and derailments. The risk of accidents is increased by the lack of minimum safety standards for engineering of approaches, drainage, surface, sight distances, lighting, signage and automated warnings at private crossings. NOGC cannot ensure the safety of its operations or increase efficiency by increasing train speed to meet the anticipated industrial growth in its service area if it cannot eliminate a significant number of these crossings. NOGC has been forced to redirect its resources to private crossing maintenance issues rather than investing in upgrading its roadbed infrastructure.

#### **B. NOGC's Efforts to Address the Private Crossing Problem**

NOGC bought the line in 1999 and immediately launched a multi-front effort to eliminate as many private crossings as possible. NOGC engaged GCR Associates, a highly regarded

professional planning firm to survey, inventory and map each crossing, identifying its location, construction and use and then to prepare a closure and consolidation plan. GCR identified clusters of crossings that could be consolidated by use of access roads leading to public crossings or upgraded protected private crossings. NOGC sought to educate and enlist the support and cooperation of State and Parish officials about this public safety and infrastructure issue, using the planning proposals as a starting point. At the same time, NOGC began posting and removing redundant and unused crossings and focused on preventing new crossings and expanded uses of existing crossings. NOGC initiated a permit application and review process and required written agreements imposing indemnity and insurance requirements and clearly assigning responsibility for construction and maintenance to those wanting private crossings.

NOGC has had a high level of cooperation from its refinery customers and larger retail establishments who have agreed to permits and funded construction of properly engineered crossings and installation of active and passive safety devices. NOGC has otherwise encountered strong resistance from residential and commercial users.

Despite NOGC's efforts, state and local officials have not been supportive. The Louisiana DODT and local parish officials generally have cited the lack of available funding for reducing the number of private crossings. Even if resources were not a problem, it became apparent that there is a complete lack of political will to address an issue that is so unpopular with constituents. In some instances, lack of support has turned to active resistance. Parish officials have continued to approve new subdivisions without requiring developers to confirm access rights and without adequate construction and engineering standards for private crossings, and have allowed public dedication of improperly constructed and unprotected subdivision crossings and have failed to correct obstructed sight lines. Local officials sought enactment of an amendment to the major public crossing closure legislation enacted by the Louisiana legislature in 2005, specifically to impede closure of railroad crossings along Highway 23. *See* La. Rev. Stat. § 48:390(F).

### **III. NOGC'S RESPONSE TO FRA SPECIFIC AREAS FOR COMMENT**

#### **I. At-Grade Highway-Rail Crossings Present Inherent Risks To Users, Including The Railroad And Its Employees, And To Other Persons In The Vicinity Should A Train Derail Into An Occupied Area Or Release Hazardous Materials. When Passenger Trains Are Involved, The Risks Are Heightened. From The Standpoint Of Public Policy, How Do We Determine Whether Creation Or Continuation Of A Private Crossing Is Justified?**

##### **A. Private Crossings cannot be justified in the interest of public safety**

Every crossing increases the likelihood of accidents and derailments. NOGC's trains regularly transport tank cars carrying hazardous and toxic materials for NOGC's refinery customers and pass through densely populated residential and commercial areas in very close proximity to the Mississippi River and coastal waters, wetlands and marshes. Authoritative federal laws or regulations are needed to overcome the lack of political will and lack of local resources for eliminating and/or limiting private railroad crossings and to avoid the inherent prejudice of local courts and operation of state property laws that generally favor landowners.

One approach would be federal laws or regulations establishing that private railroad crossings are presumed to be against public safety and disfavored as a matter of law and to shift the legal burden to landowners to prove necessity and entitlement in order to install or maintain private crossings. This change in the law would provide necessary uniformity nationwide. This approach would give landowners the incentive to seek public solutions for alternative access and/or work cooperatively with neighbors to find practical and affordable solutions.

A unified federal solution is needed because state property laws are generally not attuned to specific safety issues at stake when the railroad attempts to limit access to the right of way for safety reasons. General tort laws are ill equipped to ensure public safety at private crossings. For example, the Louisiana statutory scheme for preventing landlocked properties from being removed from commerce by allowing the owner to cross over neighboring properties to reach the nearest public street is overwhelmingly oriented in favor of the individual landlocked owners and is clearly not designed to account for the public safety implications of permitting multiple railroad crossings side by side. The landlocked property laws were designed to resolve isolated cases in the agricultural era and are clearly not equipped to take the place of appropriate public planning and infrastructure in developing commercial and suburban areas. Many landowners have failed to exercised property rights against their vendors to use existing crossings for access, but have installed new crossings for convenience. Crossings were allowed to remain on sufferance rather facing costly and losing court battles.

Louisiana is among the majority of states that elect judges. It is extremely difficult for elected judges who must be responsive to the electorate to make decisions unfavorable to local landowners, even in the broader interest of public safety and welfare. Although lifetime appointments shield federal judges from the electoral pressures facing state court judges, federal courts are courts of limited jurisdiction and generally have not been deemed available to resolve property law disputes involving private railroad crossings, even when federal safety and economic regulations are implicated. It is anomalous that although the railroad industry is overwhelmingly governed by federal laws and regulations to ensure against enforcement of state laws that would impede their operation in interstate commerce, nevertheless, railroad lawsuits may be initiated in federal court only in exceptional circumstances.

Any procedure to evaluate the public utility of private crossings must give proper weight to the public welfare and account for the positive impact of railroad transportation as an environmentally responsible and safe alternative to transport by motor carrier. The economic impact of private crossings on railroad operations must also be addressed because private crossings increase liability exposure and redirect railroad time and resources away from essential track maintenance and inspection operations. Landowners must be responsible for installation and ongoing maintenance and upgrades for crossings engineered for site conditions and use. Landowners must maintain appropriate insurance and indemnify railroads against injuries and losses associated with crossing use.

## **B. Unregulated Private Crossings Create Conflicts with Other Safety Regulations**

An overlooked consequence of private crossings that is highly relevant to the discussion of public policy is that the existence of unregulated private crossings directly and substantially conflicts with and impedes the Railroads' ability to maintain the track structure in accordance with the Track Safety Standards (49 CFR Part 213), which is one of its defined areas of responsibility. Crossings create additional safety issues and conflict with FRSA safety regulations that have not been previously addressed in these proceedings. First, large numbers of private crossings may counteract the effectiveness of the regulations requiring the sounding of locomotive horns at public crossings. *See* 49 C.F.R. § 222.1 *et seq.* Because of drivers' frequent inattention to trains and tendency to disregard of warning signs and signals, NOGC's engineers sound the locomotive horn at all crossings to warn of the approach of trains even though the regulations specifically do not require the sounding of horns at private crossings. 49 C.F.R. § 222.25. Where there are so many crossings in close proximity, train engineers are unable to blow the horn in the intended sequence and must blow a continuous blast. This situation allows motorists to become conditioned to the horn as background noise and increases the risk that motorists will fail to recognize the warning.

Installation of crossings also interferes with, adds to and conflicts with existing specific FRA track safety regulations relating to the construction and maintenance of the roadbed and track structure. 49 C.F.R. § 213, *et seq.* These provisions are intended to ensure that the roadbed and track provide the necessary structural support for railroad traffic and thereby reduce the risk of derailments. Insuring sufficient structural support has become more challenging as the permissible gross-weight-on-rail capacity of cars has increased over recent years. Crossings interfere with the roadbed and track structure in the following ways:

- Crossing materials impose additional and incompatible forces and materials on the standard road bed structure.
- Crossing materials trap moisture and interfere with proper drainage, thereby accelerating the deterioration of crossties and fouling of the ballast.
- Crossings interfere with visual inspection of the roadbed and track.
- The roadbed under crossings tends to settle at a different rate than for open track.
- Crossings render regular maintenance of the roadbed and track far more difficult and costly because crossing materials must be removed and replaced each time this work is performed. Mechanized tamping machines and ballast regulators are used to efficiently perform the track surfacing and alignment of the track. This work is needed to compensate for differential settlement, to correct discrepancies in cross-level, profile, and alignment and to refresh and replace fouled ballast. Differential settlement at crossings is exaggerated if crossings are skipped over. Removal and replacement of crossings so this work can proceed is very labor intensive and increasingly expensive.
- The need to remove crossings to perform required maintenance and the expense of replacing them acts to trigger confrontation between the landowners and railroad over who is responsible for the expense of installing and maintaining crossings.



These additional and cumulative crossing-related costs are substantial and impose an economic burden on short line railroads, in particular, which are generally small businesses which do not have unlimited resources. The inevitable result is that the railroads must divert and redirect significant funds away from, and to the detriment of, the maintenance and upgrading of the track and roadbed infrastructure as needed to increase efficiency and improve service to its shippers and future customers.

**II. Is The Current Assignment Of Responsibility For Safety At Private Crossings Effective? To What Extent Do Risk Management Practices Associated With Insurance Arrangements Result In “Regulation” Of Safety At Private Crossings?**

At present, there is no clear assignment of responsibility for safety at private crossings. There are no federal laws or regulations directly assigning responsibility for private crossings. There is no uniform law or policy assigning responsibility for safety at private crossings from state to state. The railroads’ specific regulatory role with respect to safety at *public* crossings is quite limited, however, that role vis a vis public crossings may provide an appropriate starting point for allocating railroad responsibility for private crossings.<sup>1</sup> As a practical matter, railroads bear a disproportionate share of responsibility and potential liability for private crossing safety.

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<sup>1</sup> The FRA Safety Advisory 2005-03; Highway-Rail Grade Crossing Safety, issued May 2, 2005, 70 FR 22750-22754, summarized the responsibilities owed by railroads to the FRA, acting on behalf of the public, that relate to *public* highway-rail grade crossing safety, as follows:

1. Inspect, test, and maintain grade crossing warning systems in accordance with 49 CFR Part 234 . . . .See FRA Safety Advisory 2002-1 (67 FR 3258; 01/23/2002) and FRA Safety Advisory 2004-03 (69 FR 48904; 8/11/2004).
2. Report all activation failures in writing within 15 days (49 CFR 234.9).
3. Maintain track structure in accordance with the Track Safety Standards (49 CFR Part 213). This includes maintaining adequately drained (non-fouled) ballast that otherwise could permit the existence of low ballast resistance adversely affecting the operation of grade crossing signals (49 CFR Sec. 213.103) and removing vegetation on railroad property that could interfere with preview of grade crossing warning signs and signals, whether active or passive (49 CFR Sec. 213.37).
4. Operate trains in accordance with applicable speed limitations imposed by Federal regulation (49 CFR Parts 213, 234 & 236) and the railroad's operating rules, timetables, and special instructions (see 49 CFR Parts 217 & 240).
5. Provide and maintain locomotive event recorders on all locomotives operating greater than 30 miles per hour, preserving data following any reportable event (49 CFR 229.135).
6. Provide and maintain locomotive auxiliary alerting lights on any lead locomotive operating greater than 20 miles per hour (49 CFR 229.125(d)).

#### **A. The Threat of Tort Liability Is an Ineffective Deterrent or Incentive for Landowners to Maintain the Safety of Private Crossings**

Private crossing holders are not compelled by any federal law or regulation and few, if any state laws, to bear responsibility for safety at private crossings. Tort liability remains the primary means of assigning overall responsibility for safety. Railroads are generally not responsible for maintaining private crossings under Louisiana law, however, railroads may be held liable for the condition of private crossings if a crossing is known to be defective or if the railroad voluntarily assumed a duty to maintain the crossing. Private crossing holders would be legally liable for accidents attributable to the condition of private crossings and face the threat of tort liability under Louisiana law. The risk of liability, however, has not deterred the proliferation of private crossings or encouraged the consolidation or sharing of crossings. The absence of serious accidents at private crossings along the NOGC line and lack of public awareness may be partially responsible for this. Even though the FRA's statistics have shown that the overwhelming majority of crossing accidents are not due to any fault on the part of railroads, there is nothing to prevent tort plaintiffs from suing the railroad whenever an accident take place at private crossings, even when there is no evidence that the railroad was at fault.

#### **B. Insurance Is Not a Practical Approach for Managing Risk at Public Crossings**

Managing the risk of private crossings by using insurance arrangements is not a realistic option. There are no federal or state laws or regulations to compel private crossing holders to maintain even minimal liability insurance. NOGC's experience has shown that landowners are either unwilling or unable to carry appropriate levels of liability insurance due to the high cost and a lack of available coverage options, particularly for residential crossings. In connection with its recent discussions with landowners, NOGC asked an independent agent to investigate the availability of liability and property coverage for residential and commercial private crossings after landowners objected to the condition in NOGC's crossing agreement requiring crossing holders to obtain appropriate levels of liability coverage and name NOGC as an additional insured. All home and business owners in Southeast Louisiana are facing an insurance crisis in the wake of hurricane Katrina, with many insurers pulling out of this market altogether or substantially raising rates. The State sponsored insurer of last resort has requested huge rate increases making commercial and residential coverage prohibitively expensive in the near term. Even without this obstacle, the agent was unable to identify any carriers offering policies or endorsements extending such coverage in this marketplace. Whether driveway crossings would be considered part of the covered premises is subject to interpretation under the standard coverage terms in homeowners' policies. Coverage for liability assumed under contract is generally excluded under homeowners' coverage and not available via endorsement.

### **III. How Should Improvement And/Or Maintenance Costs Associated With Private Crossing Be Allocated?**

Landowners, as the only ones deriving an economic benefit from the crossings, should rightly bear the expense of construction and maintenance. Railroads derive no economic benefit whatsoever from crossings, but practically speaking must bear the additional costs of crossings

unless they are reimbursed by the parties benefiting from the crossings. Railroads must also shoulder the substantial additional track maintenance costs where track is covered by crossings. Private crossing holders, however, are not compelled by any federal law or regulation and few, if any state laws, to bear responsibility for the cost of installation or upkeep of crossings built to industry standards or to pay for appropriate lighting and signage.

#### **IV. Is There A Need For Alternative Dispute Resolution Mechanisms To Handle Disputes That May Arise Between Private Crossing Owners And The Railroads?**

Railroads and landowners would benefit from alternative dispute mechanisms for handling disputes over private crossings such as arbitration or administrative hearings. Such a procedure must permit resolution of disputes in a fair, uniform, speedy and cost effective manner. Without fairness, speed and low cost, such a system would merely add a layer of needless administrative expense to the situation.

The standards for determining whether to permit or maintain a private crossing must begin with the uniformly applied presumption that private crossings are safety hazards and are disfavored as a matter of federal law and that conflicting state laws are preempted. The landowner seeking to install or maintain private crossings would bear the burden of proving actual need for the crossing, not inconvenience, and must demonstrate that a crossing can be safely constructed with appropriate visibility, signage and other safety measures and must accept responsibility for the cost of construction and ongoing maintenance. This alternative procedure and presumption would apply notwithstanding a claim of prior right or entitlement pursuant to deed, agreement or prescriptive easement. The required showing of need would require the landowner to pursue whatever legal recourse he may have against the persons who sold or subdivided the property without access and would entail showing that there were no physically feasible and safer alternative options without undue expense. The consideration of undue expense must weigh the present and future construction and maintenance costs to the railroad as well as the costs to the landowner of acquiring and constructing alternative access roads. This change in the law would give landowners incentive to seek public solutions for alternative access and/or work cooperatively with neighbors to find practical and affordable solutions.

To support this effort, funds should be allocated to the States for closure and consolidation of private crossings. These funds could be used directly by State DOTs or localities to build public access roads or made available by means of grants or loans to landowners to acquire property for access and to build private access roads. Railroads could also apply for funds for buy outs if necessary to achieve closures.

#### **V. Should The State Or Federal Government Assume Greater Responsibility For Safety At Private Crossings?**

The federal government should assume ultimate responsibility and authority for safety at private crossings. There is a virtual absence of state or federal regulation of private crossings. Railroads operate in interstate commerce. A uniform federal approach is necessary and preferable to forcing railroads to comply with a confusing variety of conflicting state regulations and procedures. A federal solution is needed to give the railroads the tools to eliminate and

permit private crossings, to establish standards and to allocate responsibility for liability at and construction and maintenance of private crossings.

**VI. Should There Be Nationwide Standards For Warning Devices At Private Crossings, Or For Intersection Design Of New Private Grade Crossings?**

Federal regulations are needed to adopt, implement and enforce nationwide safety standards for design and construction of crossings and appropriate warning devices at private crossings. The relative lack of existing state regulation establishes both the need and opportunity for establishing a uniform approach to private crossing safety.

**VII. How Do We Determine When A Private Crossing Has A ‘Public Purpose’ And Is Subject To Public Use?**

The determination of whether a crossing is “public” or “private” should consider the safety risks to the public associated with use of a particular crossing rather than the present federal classification of “public” based on whether the road or driveway is maintained by a public body charged with maintaining public streets or roads. As the testimony in prior hearings has indicated, under the present classification, the decision to dedicate a crossing road as a public street is often driven by the desire to avoid responsibility for maintenance and safety rather than an appropriate consideration of actual use of the crossing. The common public perception is that crossings should be considered “public” when they are heavily used by the public. It makes no sense from a safety standpoint to have a different standard for construction of heavily used private crossings than for public road crossings with comparable traffic.

**VIII. Should Some Crossings Be Categorized As ‘Commercial Crossings’, Rather Than As ‘Private Crossings’?**

A more rational approach would be to categorize crossings by volume of traffic and public safety implications of particular uses of crossings rather than purely on ownership and/or maintenance responsibility. Refinery crossings which contemplate limited public access but are used by trucks transporting hazardous materials must be regulated not as commercial crossings, but so as to minimize the risk to public safety. The category of private crossing should apply where measures are taken to restrict access.

**IX. Are There Innovative Traffic Control Treatments That Could Improve Safety At Private Crossings On Major Rail Corridors, Including Those On Which Passenger Service Is Provided?**

The emphasis should be on strengthening the ability of states and railroads to eliminate private crossings. The use of access roads to permit the closure of private crossings and consolidation around a limited number of well constructed and protected crossings is such an innovative approach.

**X. Should The Department Of Transportation Request Enactment Of Legislation To Address Private Crossings? If So, What Should It Include?**

Rio Grande Pacific and NOGC strongly support federal legislation or regulation to address private crossings in the following areas:

1. To establish federal standards for design and construction of private crossings;
2. to allocate responsibility for construction, maintenance and liability for private crossings to the landowners who benefit from private crossings;
3. to establish a private right of action and federal jurisdiction to allow railroads to file suit in federal court to enjoin landowners from installing crossings that interfere with railroad operations, violate safety standards or regulations or present a safety hazard;
4. to establish a presumption that private crossings are safety hazards and are disfavored as a matter of federal law and that conflicting state laws are preempted. Landowners must bear the burden of proving actual need for any new or expanded crossing, not inconvenience and must accept responsibility for the cost of construction and maintenance of a crossing built to federal standards. This presumption would apply over and above a claim of right pursuant to deed, agreement or prescriptive easement.
5. to establish an alternative federal dispute resolution mechanism or administrative procedure for the uniform, fair, inexpensive and speedy resolution of private crossing and permitting disputes; and
6. to provide federal funds for closure of private crossings to States for construction of public access roads for consolidation and closure of crossings or made available by loans or grants to landowners or railroads to acquire access rights and build driveways to consolidate crossings.



# Brotherhood of Railroad Signalmen

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August 30, 2006

Michelle Silva, Docket Clerk  
Attn: Docket No. FRA-2005-23281, Notice No. 1  
U.S. Department of Transportation Dockets  
400 Seventh Street, S.W, Room PL-401  
Washington, DC 20590-0001

Dear Madam:

**BEFORE THE  
DEPARTMENT OF TRANSPORTATION  
FEDERAL RAILROAD ADMINISTRATION  
MINNEAPOLIS, MINNESOTA**

Safety of Private highway-Rail Grade Crossings; Notice of Safety Inquiry; Public Hearing  
Docket No. 2005-23281, Notice No. 1

**WRITTEN COMMENTS  
OF THE  
BROTHERHOOD OF RAILROAD SIGNALMEN**

The Brotherhood of Railroad Signalmen (hereinafter referred to as "BRS"), in response to a request by the Federal Railroad Administration (FRA), submit the following written comments for consideration on issues related to the safety of private highway-rail grade crossings, referenced as Docket No. FRA-2005-23281, Notice No. 1. We appreciate the opportunity to participate in FRA's effort.

The purpose of this public hearing is to examine: the current practices concerning responsibility for safety at private grade crossings; the adequacy of warning devices at private grade crossings, and the relative merits of a more uniform approach to improving safety at private crossings.

In the public notice the FRA asked for comments on the following bullet points:

- At-grade highway-rail crossings present inherent risks to users, including the railroad and its employees, and to other persons in the vicinity should a train derail into an occupied area or release hazardous materials. When passenger trains are involved, the risks are heightened. From the standpoint of public policy, how do we determine whether creation or continuation of a private crossing is justified?

It is the position of the BRS that the FRA should prohibit the creation of new private crossings and work toward eliminating as many existing private crossings as possible. The best way to reduce accidents and fatalities is through the elimination of unprotected private crossings. If FRA determines that it wants to allow the creation of new private crossings, then the new crossings should have, at a minimum, a set of grade crossing signal system flashing light signals.

- Is the current assignment of responsibility for safety at private crossings effective? To what extent do risk management practices associated with insurance arrangements result in "regulation" of safety at private crossings?

Clearly, the current assignment of responsibility for safety at private crossings is not as effective as it needs to be due to the increase of accidents over the past 20 years.

- How should improvement and/or maintenance costs associated with private crossings be allocated?

Improvement and maintenance costs should be split equally between the State government, Federal government and the property owner. However, each case should be evaluated on its own merit. There may be some cases where the responsibility allocation should be adjusted. The State & Federal government for instance should split the cost of a crossing warning system where school buses or other public transportation entity utilizes the crossing.

- Is there a need for alternative dispute resolution mechanisms to handle disputes that may arise between private crossing owners and the railroads?

The BRS does not believe that there is a need for alternative dispute resolution mechanisms as this time.

- Should the State or Federal government assume greater responsibility for safety at private crossings, or for intersection design of new private crossings?

Yes, the State and Federal governments should assume greater responsibility for safety at private crossings. As evidenced by the data contained in Docket No. FRA-2005-23281 there is a known safety problem at private crossings. There are far too many accidents and an unacceptable number of fatalities along with these accidents. As stated previously, the BRS believes that there should be no private crossings created in the future unless they are equipped with active crossing warning devices. If the DOT/FRA is going to allow for the creation of future private crossings, then the State and Federal governments should have regulatory oversight for intersection design of these new private crossings.

- Should there be Nationwide standards for warning devices at private crossings, or for intersection design of new private grade crossings?

The BRS contends that there should be Nationwide standards for warning devices at private crossings and for intersection design. The BRS believes that the standards should be patterned after, or similar to, the ones found in the Manual on Uniform Traffic Control Devices (MUTCD) Part 8, Traffic Controls for Highway-Rail Grade Crossings. By taking this action, users of private crossings will be conditioned to respond to the stimuli that they encounter at any other highway-rail grade crossing.

- How do we determine when a private crossing has a 'public purpose' and is subject to 'public use'?

A private crossing should be defined as one used by a sole landowner or lessee. Once any other individuals routinely use the crossing it shall no longer be considered a private crossing but as a public crossing.

- Should some crossings be categorized as 'commercial crossings' rather than as 'private crossings'?

Some "private crossings" are indeed "commercial crossings." Oftentimes the only vehicular traffic on a private crossing will be trucks servicing a local industry. For example cement trucks going in and out of stone quarry next to the railroad tracks. It is imperative that any "private crossing" that serves an industry should be held to the same standards for the highway-rail grade crossing signal system requirements. Due to the types of trucks and materials that they carry, the severity of an accident at these crossings would be greater than an accident between a car and a train. Trucks carrying hazardous materials pose an even greater danger.

- Are there innovative traffic control treatments that could improve safety at private crossings on major rail corridors, including those on which passenger service is provided?

The BRS has not seen any "innovative traffic control treatments" that could improve safety at private crossings, but basic grade crossing flashing light signals are proven technology



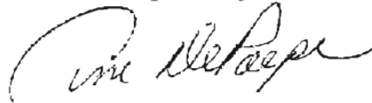
that would instantly decrease the hazards inherent with all crossings that lack an active warning system.

- Should the Department of Transportation request enactment of legislation to address private crossings? Is so, what should it include?

Yes, the DOT should request enactment of legislation to address private crossings. As stated previously, there is not enough being done to reduce accidents and fatalities at private crossings. At a minimum the legislation should include the sight line distances; signage requirements; and at a minimum, grade crossing signal system flashing light signals.

The Brotherhood of Railroad Signalmen appreciates this opportunity to participate in the discussion of issues related to the safety of private highway-rail grade crossings and I am ready to answer any questions that you may have at this time.

Respectfully submitted,



Tim DePaepe  
BRS Director of Research

**ACTION:** Notice of Limitation on Claims for Judicial Review of Actions by FHWA and other Federal agencies.

**SUMMARY:** This notice announces actions taken by the FHWA and other Federal agencies that are final within the meaning of 23 U.S.C. 139(j)(1). These actions relate to a proposed highway project. U.S. Route 101 Willits Bypass Project between kilo post R69.4 and R78.9 (post mile R43.1 to 49.0) in Mendocino County, State of California. These actions grant approvals for the project.

**DATES:** By this notice, the FHWA is advising the public of final agency actions subject to 23 U.S.C. 139(j)(1). A claim seeking judicial review of the Federal agency actions on the highway project will be barred unless the claim is filed on or before July 5, 2007. If the Federal law that authorizes judicial review of a claim provides a time period of less than 180 days for filing such claim, then that shorter time period still applies.

**FOR FURTHER INFORMATION CONTACT:**

Maiser Khaled, Director, Project Development & Environment, Federal Highway Administration, 650 Capitol Mall, Suite 4-100, Sacramento, CA 95814, weekdays between 7 a.m. and 4 p.m., telephone 916-498-5020, [maiser.khaled@fhwa.dot.gov](mailto:maiser.khaled@fhwa.dot.gov). For U.S. Fish and Wildlife Service, Ray Bosch, Wildlife Biologist, Endangered Species Program, Arcata Fish and Wildlife Office, telephone 707-822-7201, [ray\\_bosch@fws.gov](mailto:ray_bosch@fws.gov).

For National Oceanic and Atmospheric Administration—National Marine Fisheries Service, Thomas Daugherty, Fisheries Biologist, Ukiah Office, Telephone 707-468-4057, [Tom.Daugherty@noaa.gov](mailto:Tom.Daugherty@noaa.gov). For California Department of Transportation, Jeremy Ketchum, Senior Environmental Planner, 2389 Gateway Oaks Dr., Sacramento, CA 95833, weekdays between 8 a.m. and 5 p.m., (916) 274-0621, [jeremy\\_ketchum@dot.ca.gov](mailto:jeremy_ketchum@dot.ca.gov).

**SUPPLEMENTARY INFORMATION:** Notice is hereby given that the FHWA and other Federal agencies have taken final agency actions subject to 23 U.S.C. 139(j)(1) by issuing approvals for the following highway project in the State of California: U.S. Route 101 Willits Bypass Project between kilo post R69.4 and R78.9 (post mile R43.1 to 49.0) in Mendocino County. This project would reduce delays, improve safety, and provide at least a Level of Service C for interregional traffic on U.S. 101 in the vicinity of the City of Willits, Mendocino County, California. This

would be accomplished by constructing a four-lane freeway around the city of Willits, in Mendocino County, from 0.8 mile south of the Haehl Overhead to 2.9 miles south of Reynolds Highway. The actions by the Federal agencies, and the laws under which such actions were taken, are described in the Final Environmental Impact Statement (FEIS) for the project, approved on November 25, 2006, in the Record of Decision (ROD) issued on December 18, 2006, and in other documents in the FHWA project files. The FEIS, ROD, and other project records are available by contacting the FHWA or the California Department of Transportation at the addresses provided above. The FHWA FEIS and ROD can be viewed and downloaded from the project Web site <http://www.dot.ca.gov/dist1/d1projects/willits/reports.htm> or viewed at public libraries in the project area.

This notice applies to all Federal agency decisions as of the issuance date of this notice and all laws under which such actions were taken, including but not limited to:

1. *General:* National Environmental Policy Act (NEPA) [42 U.S.C. 4321-4351]; Federal-Aid Highway Act [23 U.S.C. 109].
2. *Air:* Clean Air Act, 42 U.S.C. 7401-7671(q).
3. *Land:* Section 4(f) of the Department of Transportation Act of 1966 [49 U.S.C. 303].
4. *Wildlife:* Endangered Species Act [16 U.S.C. 1531-1544 and Section 1536], Marine Mammal Protection Act [16 U.S.C. 1361], Anadromous Fish Conservation Act [16 U.S.C. 757(a)-757(g)], Migratory Bird Treaty Act [16 U.S.C. 703-712], Magnuson-Stevens Fishery Conservation and Management Act of 1976, as amended [16 U.S.C. 1801 *et seq.*].
5. *Historic and Cultural Resources:* Section 106 of the National Historic Preservation Act of 1966, as amended [16 U.S.C. 470(f) *et seq.*]; Archeological Resources Protection Act of 1977 [16 U.S.C. 470(aa)-11]; Archeological and Historic Preservation Act [16 U.S.C. 469-469(c)].
6. *Social and Economic:* Civil Rights Act of 1964 [42 U.S.C. 2000(d)-2000(d)(1)]; Farmland Protection Policy Act (FPPA) [7 U.S.C. 4201-4209].
7. *Wetlands and Water Resources:* Clean Water Act, 33 U.S.C. 1251-1377 (Section 404, Section 401, Section 319); Coastal Barrier Resources Act, 16 U.S.C. 3501-3510; Coastal Zone Management Act, 16 U.S.C. 1451-1465; Land and Water Conservation Fund (LWCF), 16 U.S.C. 4601-4604; 42 U.S.C. 300(f)-300(j)(6); Emergency Wetlands Resources Act, 16 U.S.C. 3921, 3931;

TEA-21 Wetlands Mitigation, 23 U.S.C. 103(b)(6)(m), 133(b)(11); Flood Disaster Protection Act, 42 U.S.C. 4001-4128.

8. *Hazardous Materials:* Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), 42 U.S.C. 9601-9675; Superfund Amendments and Reauthorization Act of 1986 (SARA); Resource Conservation and Recovery Act (RCRA), 42 U.S.C. 6901-6992(k).
9. *Executive Orders:* E.O. 11990 Protection of Wetlands; E.O. 11988 Floodplain Management; E.O. 12898, Federal Actions to Address Environmental Justice in Minority Populations and Low Income Populations; E.O. 11593 Protection and Enhancement of Cultural Resources; E.O. 13175 Consultation and Coordination with Indian Tribal Governments; E.O. 11514 Protection and Enhancement of Environmental Quality; E.O. 13112 Invasive Species.

(Catalog of Federal Domestic Assistance Program Number 20.205, Highway Planning and Construction. The regulations implementing Executive Order 12372 regarding intergovernmental consultation on Federal programs and activities apply to his program.)

**Authority:** 23 U.S.C. 139(j)(1).

Issued on: December 28, 2006.

**Gene K. Fong,**  
Division Administrator, Federal Highway Administration.

[FR Doc. E6-22596 Filed 1-4-07; 8:45 am]

**BILLING CODE 4910-RY-P**

## DEPARTMENT OF TRANSPORTATION

### Federal Railroad Administration

[Docket No. FRA-2005-23281, Notice No. 3]

#### Safety of Private Highway-Rail Grade Crossings; Notice of Safety Inquiry

**AGENCY:** Federal Railroad Administration (FRA), Department of Transportation (DOT).

**ACTION:** Notice of safety inquiry.

**SUMMARY:** On July 27, 2006, the FRA published a notice announcing its intent to conduct a series of open meetings throughout the United States, in cooperation with appropriate State agencies, to consider issues related to the safety of private highway-rail grade crossings. This notice indicated that the first of these meetings would be held August 30, 2006, in Fort Snelling, Minnesota. On September 22, 2006, the FRA published a second notice, which announced that FRA had scheduled subsequent meetings, to be held on September 27, 2006, in Raleigh, North

Carolina; October 26, 2006, in San Francisco, California; and December 6, 2006, in New Orleans, Louisiana. This Notice No. 3 announces that the FRA has scheduled an additional meeting, to be held on February 15, 2007, in Syracuse, New York.

At the meeting, FRA intends to solicit oral statements from private crossing owners, railroads and other interested parties on issues related to the safety of private highway-rail grade crossings, which will include, but not be limited to, current practices concerning responsibility for safety at private grade crossings, the adequacy of warning devices at private crossings, and the relative merits of a more uniform approach to improving safety at private crossings. FRA has also opened a public docket on these issues, so that interested parties may submit written comments for public review and consideration.

**DATES:** The public meeting will be held in Syracuse, New York on February 15, 2007, at the Doubletree Hotel, 6301 State Route 298, Syracuse, New York, 13057, beginning at 9:30 a.m.

Persons wishing to participate are requested to provide their names, organizational affiliation and contact information to Michelle Silva, Docket Clerk, FRA, 1120 Vermont Avenue, NW., Washington, DC 20590 (telephone 202-493-6030). Persons needing sign language interpretation or other reasonable accommodation for disability are also encouraged to contact Ms. Silva. Additional public meetings will be announced as they are scheduled.

**FOR FURTHER INFORMATION CONTACT:** Ron Ries, Office of Safety, FRA, 1120 Vermont Avenue, NW., Washington, DC 20590 (telephone 202-493-6299); Miriam Kloepfel, Office of Safety, FRA, 1120 Vermont Avenue, NW., Washington, DC 20590 (telephone 202-493-6299); or Kathryn Shelton, Office of Chief Counsel, FRA, 1120 Vermont Avenue, NW., Washington, DC 20590 (telephone 202-493-6038).

**SUPPLEMENTARY INFORMATION:** For additional information, please see the initial notice, published July 27 in the **Federal Register** (citation: 71 FR 42713) and available at <http://a257.g.akamaitech.net/7/257/2422/01jan20061800/edocket.access.gpo.gov/2006/pdf/06-6501.pdf>

#### Request for Comments

While FRA solicits discussion and comments on all areas of safety at private highway-rail grade crossings, we particularly encourage comments on the following topics:

At-grade highway-rail crossings present inherent risks to users,

including the railroad and its employees, and to other persons in the vicinity should a train derail into an occupied area or release hazardous materials. When passenger trains are involved, the risks are heightened. From the standpoint of public policy, how do we determine whether creation or continuation of a private crossing is justified?

Is the current assignment of responsibility for safety at private crossings effective? To what extent do risk management practices associated with insurance arrangements result in "regulation" of safety at private crossings?

How should improvement and/or maintenance costs associated with private crossing be allocated?

Is there a need for alternative dispute resolution mechanisms to handle disputes that may arise between private crossing owners and the railroads?

Should the State or Federal government assume greater responsibility for safety at private crossings?

Should there be Nationwide standards for warning devices at private crossings, or for intersection design of new private grade crossings?

How do we determine when a private crossing has a "public purpose" and is subject to public use?

Should some crossings be categorized as "commercial crossings", rather than as "private crossings"?

Are there innovative traffic control treatments that could improve safety at private crossings on major rail corridors, including those on which passenger service is provided?

Should the Department of Transportation request enactment of legislation to address private crossings? If so, what should it include?

Issued in Washington, DC, on December 29, 2006.

**Jo Strang,**

*Associate Administrator for Safety.*

[FR Doc. E6-22606 Filed 1-4-07; 8:45 am]

**BILLING CODE 4910-06-P**

## DEPARTMENT OF TRANSPORTATION

### Research and Innovative Technology Administration

[RITA-2006-26758]

#### Statement Regarding a Coordinated Framework for Regulation of a Hydrogen Economy

**AGENCY:** Research and Innovative Technology Administration, U.S. Department of Transportation.

**ACTION:** Notice of inquiry and request for public comment.

**SUMMARY:** The purpose of this **Federal Register** notice is to inform the public of current U.S. statutes and regulations that may be applicable to a hydrogen economy and to request comments on their interface. This notice describes and indexes several statutory and regulatory provisions of each major Federal agency and discusses possible applications of these provisions to aspects of a hydrogen economy, including construction and certification of transportation/ports infrastructure, the use of fuel cells to power automobiles and generate electricity for homes and businesses, and effects on public safety and health. The notice also describes the regulatory jurisdictions of each Federal agency in the context of a hydrogen economy. In addition, public comments are invited on a Web site that was created to depict the regulatory framework of a hydrogen economy. The Web site is located at <http://hydrogen.gov/regulations.html>. Comments will be used to improve the Web site.

**DATES:** Comments must be received on or before March 6, 2007.

**Public Participation:** The Ad Hoc Committee on a Regulatory Framework for a Hydrogen Economy (Ad Hoc Committee) of the Interagency Working Group on Hydrogen and Fuel Cells (IWG), which is part of the Executive Office of the President's National Science and Technology Council (NSTC), is seeking comments and advice from individuals, public interest groups, industry and academia on this statement regarding the framework for regulation of a hydrogen economy.

The Ad Hoc Committee members include the Office of Science and Technology Policy (OSTP), Department of State (DOS), U.S. Department of Transportation (DOT) (including the Federal Aviation Administration (FAA), Federal Highways Administration (FHWA), Federal Railroad Administration (FRA), National Highway Traffic Safety Administration (NHTSA), Federal Transit Administration (FTA), the Maritime Administration (MARAD), Federal Motor Carrier Administration (FMCSA), Pipeline and Hazardous Materials Safety Administration (PHMSA) and Research and Innovative Technology Administration (RITA)), Department of Agriculture (USDA), Department of Labor's (DOL's) Occupational Safety and Health Administration (OSHA), Environmental Protection Agency (EPA), National Aeronautics and Space Administration (NASA) and Federal

**ACTION:** Notice of Limitation on Claims for Judicial Review of Actions by FHWA and other Federal agencies.

**SUMMARY:** This notice announces actions taken by the FHWA and other Federal agencies that are final within the meaning of 23 U.S.C. 139(j)(1). These actions relate to a proposed highway project. U.S. Route 101 Willits Bypass Project between kilo post R69.4 and R78.9 (post mile R43.1 to 49.0) in Mendocino County, State of California. These actions grant approvals for the project.

**DATES:** By this notice, the FHWA is advising the public of final agency actions subject to 23 U.S.C. 139(j)(1). A claim seeking judicial review of the Federal agency actions on the highway project will be barred unless the claim is filed on or before July 5, 2007. If the Federal law that authorizes judicial review of a claim provides a time period of less than 180 days for filing such claim, then that shorter time period still applies.

**FOR FURTHER INFORMATION CONTACT:**

Maiser Khaled, Director, Project Development & Environment, Federal Highway Administration, 650 Capitol Mall, Suite 4-100, Sacramento, CA 95814, weekdays between 7 a.m. and 4 p.m., telephone 916-498-5020, [maiser.khaled@fhwa.dot.gov](mailto:maiser.khaled@fhwa.dot.gov). For U.S. Fish and Wildlife Service, Ray Bosch, Wildlife Biologist, Endangered Species Program, Arcata Fish and Wildlife Office, telephone 707-822-7201, [ray\\_bosch@fws.gov](mailto:ray_bosch@fws.gov).

For National Oceanic and Atmospheric Administration—National Marine Fisheries Service, Thomas Daugherty, Fisheries Biologist, Ukiah Office, Telephone 707-468-4057, [Tom.Daugherty@noaa.gov](mailto:Tom.Daugherty@noaa.gov). For California Department of Transportation, Jeremy Ketchum, Senior Environmental Planner, 2389 Gateway Oaks Dr., Sacramento, CA 95833, weekdays between 8 a.m. and 5 p.m., (916) 274-0621, [jeremy\\_ketchum@dot.ca.gov](mailto:jeremy_ketchum@dot.ca.gov).

**SUPPLEMENTARY INFORMATION:** Notice is hereby given that the FHWA and other Federal agencies have taken final agency actions subject to 23 U.S.C. 139(j)(1) by issuing approvals for the following highway project in the State of California: U.S. Route 101 Willits Bypass Project between kilo post R69.4 and R78.9 (post mile R43.1 to 49.0) in Mendocino County. This project would reduce delays, improve safety, and provide at least a Level of Service C for interregional traffic on U.S. 101 in the vicinity of the City of Willits, Mendocino County, California. This

would be accomplished by constructing a four-lane freeway around the city of Willits, in Mendocino County, from 0.8 mile south of the Haehl Overhead to 2.9 miles south of Reynolds Highway. The actions by the Federal agencies, and the laws under which such actions were taken, are described in the Final Environmental Impact Statement (FEIS) for the project, approved on November 25, 2006, in the Record of Decision (ROD) issued on December 18, 2006, and in other documents in the FHWA project files. The FEIS, ROD, and other project records are available by contacting the FHWA or the California Department of Transportation at the addresses provided above. The FHWA FEIS and ROD can be viewed and downloaded from the project Web site <http://www.dot.ca.gov/dist1/d1projects/willits/reports.htm> or viewed at public libraries in the project area.

This notice applies to all Federal agency decisions as of the issuance date of this notice and all laws under which such actions were taken, including but not limited to:

1. *General:* National Environmental Policy Act (NEPA) [42 U.S.C. 4321-4351]; Federal-Aid Highway Act [23 U.S.C. 109].
2. *Air:* Clean Air Act, 42 U.S.C. 7401-7671(q).
3. *Land:* Section 4(f) of the Department of Transportation Act of 1966 [49 U.S.C. 303].
4. *Wildlife:* Endangered Species Act [16 U.S.C. 1531-1544 and Section 1536], Marine Mammal Protection Act [16 U.S.C. 1361], Anadromous Fish Conservation Act [16 U.S.C. 757(a)-757(g)], Migratory Bird Treaty Act [16 U.S.C. 703-712], Magnuson-Stevens Fishery Conservation and Management Act of 1976, as amended [16 U.S.C. 1801 *et seq.*].
5. *Historic and Cultural Resources:* Section 106 of the National Historic Preservation Act of 1966, as amended [16 U.S.C. 470(f) *et seq.*]; Archeological Resources Protection Act of 1977 [16 U.S.C. 470(aa)-11]; Archeological and Historic Preservation Act [16 U.S.C. 469-469(c)].
6. *Social and Economic:* Civil Rights Act of 1964 [42 U.S.C. 2000(d)-2000(d)(1)]; Farmland Protection Policy Act (FPPA) [7 U.S.C. 4201-4209].
7. *Wetlands and Water Resources:* Clean Water Act, 33 U.S.C. 1251-1377 (Section 404, Section 401, Section 319); Coastal Barrier Resources Act, 16 U.S.C. 3501-3510; Coastal Zone Management Act, 16 U.S.C. 1451-1465; Land and Water Conservation Fund (LWCF), 16 U.S.C. 4601-4604; 42 U.S.C. 300(f)-300(j)(6); Emergency Wetlands Resources Act, 16 U.S.C. 3921, 3931;

TEA-21 Wetlands Mitigation, 23 U.S.C. 103(b)(6)(m), 133(b)(11); Flood Disaster Protection Act, 42 U.S.C. 4001-4128.

8. *Hazardous Materials:* Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), 42 U.S.C. 9601-9675; Superfund Amendments and Reauthorization Act of 1986 (SARA); Resource Conservation and Recovery Act (RCRA), 42 U.S.C. 6901-6992(k).
9. *Executive Orders:* E.O. 11990 Protection of Wetlands; E.O. 11988 Floodplain Management; E.O. 12898, Federal Actions to Address Environmental Justice in Minority Populations and Low Income Populations; E.O. 11593 Protection and Enhancement of Cultural Resources; E.O. 13175 Consultation and Coordination with Indian Tribal Governments; E.O. 11514 Protection and Enhancement of Environmental Quality; E.O. 13112 Invasive Species.

(Catalog of Federal Domestic Assistance Program Number 20.205, Highway Planning and Construction. The regulations implementing Executive Order 12372 regarding intergovernmental consultation on Federal programs and activities apply to his program.)

**Authority:** 23 U.S.C. 139(j)(1).

Issued on: December 28, 2006.

**Gene K. Fong,**  
Division Administrator, Federal Highway Administration.

[FR Doc. E6-22596 Filed 1-4-07; 8:45 am]

**BILLING CODE 4910-RY-P**

## DEPARTMENT OF TRANSPORTATION

### Federal Railroad Administration

[Docket No. FRA-2005-23281, Notice No. 3]

#### Safety of Private Highway-Rail Grade Crossings; Notice of Safety Inquiry

**AGENCY:** Federal Railroad Administration (FRA), Department of Transportation (DOT).

**ACTION:** Notice of safety inquiry.

**SUMMARY:** On July 27, 2006, the FRA published a notice announcing its intent to conduct a series of open meetings throughout the United States, in cooperation with appropriate State agencies, to consider issues related to the safety of private highway-rail grade crossings. This notice indicated that the first of these meetings would be held August 30, 2006, in Fort Snelling, Minnesota. On September 22, 2006, the FRA published a second notice, which announced that FRA had scheduled subsequent meetings, to be held on September 27, 2006, in Raleigh, North

Carolina; October 26, 2006, in San Francisco, California; and December 6, 2006, in New Orleans, Louisiana. This Notice No. 3 announces that the FRA has scheduled an additional meeting, to be held on February 15, 2007, in Syracuse, New York.

At the meeting, FRA intends to solicit oral statements from private crossing owners, railroads and other interested parties on issues related to the safety of private highway-rail grade crossings, which will include, but not be limited to, current practices concerning responsibility for safety at private grade crossings, the adequacy of warning devices at private crossings, and the relative merits of a more uniform approach to improving safety at private crossings. FRA has also opened a public docket on these issues, so that interested parties may submit written comments for public review and consideration.

**DATES:** The public meeting will be held in Syracuse, New York on February 15, 2007, at the Doubletree Hotel, 6301 State Route 298, Syracuse, New York, 13057, beginning at 9:30 a.m.

Persons wishing to participate are requested to provide their names, organizational affiliation and contact information to Michelle Silva, Docket Clerk, FRA, 1120 Vermont Avenue, NW., Washington, DC 20590 (telephone 202-493-6030). Persons needing sign language interpretation or other reasonable accommodation for disability are also encouraged to contact Ms. Silva. Additional public meetings will be announced as they are scheduled.

**FOR FURTHER INFORMATION CONTACT:** Ron Ries, Office of Safety, FRA, 1120 Vermont Avenue, NW., Washington, DC 20590 (telephone 202-493-6299); Miriam Kloepfel, Office of Safety, FRA, 1120 Vermont Avenue, NW., Washington, DC 20590 (telephone 202-493-6299); or Kathryn Shelton, Office of Chief Counsel, FRA, 1120 Vermont Avenue, NW., Washington, DC 20590 (telephone 202-493-6038).

**SUPPLEMENTARY INFORMATION:** For additional information, please see the initial notice, published July 27 in the **Federal Register** (citation: 71 FR 42713) and available at <http://a257.g.akamaitech.net/7/257/2422/01jan20061800/edocket.access.gpo.gov/2006/pdf/06-6501.pdf>

#### Request for Comments

While FRA solicits discussion and comments on all areas of safety at private highway-rail grade crossings, we particularly encourage comments on the following topics:

□ At-grade highway-rail crossings present inherent risks to users,

including the railroad and its employees, and to other persons in the vicinity should a train derail into an occupied area or release hazardous materials. When passenger trains are involved, the risks are heightened. From the standpoint of public policy, how do we determine whether creation or continuation of a private crossing is justified?

□ Is the current assignment of responsibility for safety at private crossings effective? To what extent do risk management practices associated with insurance arrangements result in “regulation” of safety at private crossings?

□ How should improvement and/or maintenance costs associated with private crossing be allocated?

□ Is there a need for alternative dispute resolution mechanisms to handle disputes that may arise between private crossing owners and the railroads?

□ Should the State or Federal government assume greater responsibility for safety at private crossings?

□ Should there be Nationwide standards for warning devices at private crossings, or for intersection design of new private grade crossings?

□ How do we determine when a private crossing has a “public purpose” and is subject to public use?

□ Should some crossings be categorized as “commercial crossings”, rather than as “private crossings”?

□ Are there innovative traffic control treatments that could improve safety at private crossings on major rail corridors, including those on which passenger service is provided?

□ Should the Department of Transportation request enactment of legislation to address private crossings? If so, what should it include?

Issued in Washington, DC, on December 29, 2006.

**Jo Strang,**

*Associate Administrator for Safety.*

[FR Doc. E6-22606 Filed 1-4-07; 8:45 am]

**BILLING CODE 4910-06-P**

## DEPARTMENT OF TRANSPORTATION

### Research and Innovative Technology Administration

[RITA-2006-26758]

#### Statement Regarding a Coordinated Framework for Regulation of a Hydrogen Economy

**AGENCY:** Research and Innovative Technology Administration, U.S. Department of Transportation.

**ACTION:** Notice of inquiry and request for public comment.

**SUMMARY:** The purpose of this **Federal Register** notice is to inform the public of current U.S. statutes and regulations that may be applicable to a hydrogen economy and to request comments on their interface. This notice describes and indexes several statutory and regulatory provisions of each major Federal agency and discusses possible applications of these provisions to aspects of a hydrogen economy, including construction and certification of transportation/ports infrastructure, the use of fuel cells to power automobiles and generate electricity for homes and businesses, and effects on public safety and health. The notice also describes the regulatory jurisdictions of each Federal agency in the context of a hydrogen economy. In addition, public comments are invited on a Web site that was created to depict the regulatory framework of a hydrogen economy. The Web site is located at <http://hydrogen.gov/regulations.html>. Comments will be used to improve the Web site.

**DATES:** Comments must be received on or before March 6, 2007.

**Public Participation:** The Ad Hoc Committee on a Regulatory Framework for a Hydrogen Economy (Ad Hoc Committee) of the Interagency Working Group on Hydrogen and Fuel Cells (IWG), which is part of the Executive Office of the President's National Science and Technology Council (NSTC), is seeking comments and advice from individuals, public interest groups, industry and academia on this statement regarding the framework for regulation of a hydrogen economy.

The Ad Hoc Committee members include the Office of Science and Technology Policy (OSTP), Department of State (DOS), U.S. Department of Transportation (DOT) (including the Federal Aviation Administration (FAA), Federal Highways Administration (FHWA), Federal Railroad Administration (FRA), National Highway Traffic Safety Administration (NHTSA), Federal Transit Administration (FTA), the Maritime Administration (MARAD), Federal Motor Carrier Administration (FMCSA), Pipeline and Hazardous Materials Safety Administration (PHMSA) and Research and Innovative Technology Administration (RITA)), Department of Agriculture (USDA), Department of Labor's (DOL's) Occupational Safety and Health Administration (OSHA), Environmental Protection Agency (EPA), National Aeronautics and Space Administration (NASA) and Federal

**ACTION:** Notice of Limitation on Claims for Judicial Review of Actions by FHWA and other Federal agencies.

**SUMMARY:** This notice announces actions taken by the FHWA and other Federal agencies that are final within the meaning of 23 U.S.C. 139(j)(1). These actions relate to a proposed highway project. U.S. Route 101 Willits Bypass Project between kilo post R69.4 and R78.9 (post mile R43.1 to 49.0) in Mendocino County, State of California. These actions grant approvals for the project.

**DATES:** By this notice, the FHWA is advising the public of final agency actions subject to 23 U.S.C. 139(j)(1). A claim seeking judicial review of the Federal agency actions on the highway project will be barred unless the claim is filed on or before July 5, 2007. If the Federal law that authorizes judicial review of a claim provides a time period of less than 180 days for filing such claim, then that shorter time period still applies.

**FOR FURTHER INFORMATION CONTACT:**

Maiser Khaled, Director, Project Development & Environment, Federal Highway Administration, 650 Capitol Mall, Suite 4-100, Sacramento, CA 95814, weekdays between 7 a.m. and 4 p.m., telephone 916-498-5020, [maiser.khaled@fhwa.dot.gov](mailto:maiser.khaled@fhwa.dot.gov). For U.S. Fish and Wildlife Service, Ray Bosch, Wildlife Biologist, Endangered Species Program, Arcata Fish and Wildlife Office, telephone 707-822-7201, [ray\\_bosch@fws.gov](mailto:ray_bosch@fws.gov).

For National Oceanic and Atmospheric Administration—National Marine Fisheries Service, Thomas Daugherty, Fisheries Biologist, Ukiah Office, Telephone 707-468-4057, [Tom.Daugherty@noaa.gov](mailto:Tom.Daugherty@noaa.gov). For California Department of Transportation, Jeremy Ketchum, Senior Environmental Planner, 2389 Gateway Oaks Dr., Sacramento, CA 95833, weekdays between 8 a.m. and 5 p.m., (916) 274-0621, [jeremy\\_ketchum@dot.ca.gov](mailto:jeremy_ketchum@dot.ca.gov).

**SUPPLEMENTARY INFORMATION:** Notice is hereby given that the FHWA and other Federal agencies have taken final agency actions subject to 23 U.S.C. 139(j)(1) by issuing approvals for the following highway project in the State of California: U.S. Route 101 Willits Bypass Project between kilo post R69.4 and R78.9 (post mile R43.1 to 49.0) in Mendocino County. This project would reduce delays, improve safety, and provide at least a Level of Service C for interregional traffic on U.S. 101 in the vicinity of the City of Willits, Mendocino County, California. This

would be accomplished by constructing a four-lane freeway around the city of Willits, in Mendocino County, from 0.8 mile south of the Haehl Overhead to 2.9 miles south of Reynolds Highway. The actions by the Federal agencies, and the laws under which such actions were taken, are described in the Final Environmental Impact Statement (FEIS) for the project, approved on November 25, 2006, in the Record of Decision (ROD) issued on December 18, 2006, and in other documents in the FHWA project files. The FEIS, ROD, and other project records are available by contacting the FHWA or the California Department of Transportation at the addresses provided above. The FHWA FEIS and ROD can be viewed and downloaded from the project Web site <http://www.dot.ca.gov/dist1/d1projects/willits/reports.htm> or viewed at public libraries in the project area.

This notice applies to all Federal agency decisions as of the issuance date of this notice and all laws under which such actions were taken, including but not limited to:

1. *General:* National Environmental Policy Act (NEPA) [42 U.S.C. 4321-4351]; Federal-Aid Highway Act [23 U.S.C. 109].
2. *Air:* Clean Air Act, 42 U.S.C. 7401-7671(q).
3. *Land:* Section 4(f) of the Department of Transportation Act of 1966 [49 U.S.C. 303].
4. *Wildlife:* Endangered Species Act [16 U.S.C. 1531-1544 and Section 1536], Marine Mammal Protection Act [16 U.S.C. 1361], Anadromous Fish Conservation Act [16 U.S.C. 757(a)-757(g)], Migratory Bird Treaty Act [16 U.S.C. 703-712], Magnuson-Stevens Fishery Conservation and Management Act of 1976, as amended [16 U.S.C. 1801 *et seq.*].
5. *Historic and Cultural Resources:* Section 106 of the National Historic Preservation Act of 1966, as amended [16 U.S.C. 470(f) *et seq.*]; Archeological Resources Protection Act of 1977 [16 U.S.C. 470(aa)-11]; Archeological and Historic Preservation Act [16 U.S.C. 469-469(c)].
6. *Social and Economic:* Civil Rights Act of 1964 [42 U.S.C. 2000(d)-2000(d)(1)]; Farmland Protection Policy Act (FPPA) [7 U.S.C. 4201-4209].
7. *Wetlands and Water Resources:* Clean Water Act, 33 U.S.C. 1251-1377 (Section 404, Section 401, Section 319); Coastal Barrier Resources Act, 16 U.S.C. 3501-3510; Coastal Zone Management Act, 16 U.S.C. 1451-1465; Land and Water Conservation Fund (LWCF), 16 U.S.C. 4601-4604; 42 U.S.C. 300(f)-300(j)(6); Emergency Wetlands Resources Act, 16 U.S.C. 3921, 3931;

TEA-21 Wetlands Mitigation, 23 U.S.C. 103(b)(6)(m), 133(b)(11); Flood Disaster Protection Act, 42 U.S.C. 4001-4128.

8. *Hazardous Materials:* Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), 42 U.S.C. 9601-9675; Superfund Amendments and Reauthorization Act of 1986 (SARA); Resource Conservation and Recovery Act (RCRA), 42 U.S.C. 6901-6992(k).
9. *Executive Orders:* E.O. 11990 Protection of Wetlands; E.O. 11988 Floodplain Management; E.O. 12898, Federal Actions to Address Environmental Justice in Minority Populations and Low Income Populations; E.O. 11593 Protection and Enhancement of Cultural Resources; E.O. 13175 Consultation and Coordination with Indian Tribal Governments; E.O. 11514 Protection and Enhancement of Environmental Quality; E.O. 13112 Invasive Species.

(Catalog of Federal Domestic Assistance Program Number 20.205, Highway Planning and Construction. The regulations implementing Executive Order 12372 regarding intergovernmental consultation on Federal programs and activities apply to his program.)

**Authority:** 23 U.S.C. 139(j)(1).

Issued on: December 28, 2006.

**Gene K. Fong,**  
Division Administrator, Federal Highway Administration.

[FR Doc. E6-22596 Filed 1-4-07; 8:45 am]

**BILLING CODE 4910-RY-P**

## DEPARTMENT OF TRANSPORTATION

### Federal Railroad Administration

[Docket No. FRA-2005-23281, Notice No. 3]

#### Safety of Private Highway-Rail Grade Crossings; Notice of Safety Inquiry

**AGENCY:** Federal Railroad Administration (FRA), Department of Transportation (DOT).

**ACTION:** Notice of safety inquiry.

**SUMMARY:** On July 27, 2006, the FRA published a notice announcing its intent to conduct a series of open meetings throughout the United States, in cooperation with appropriate State agencies, to consider issues related to the safety of private highway-rail grade crossings. This notice indicated that the first of these meetings would be held August 30, 2006, in Fort Snelling, Minnesota. On September 22, 2006, the FRA published a second notice, which announced that FRA had scheduled subsequent meetings, to be held on September 27, 2006, in Raleigh, North

Carolina; October 26, 2006, in San Francisco, California; and December 6, 2006, in New Orleans, Louisiana. This Notice No. 3 announces that the FRA has scheduled an additional meeting, to be held on February 15, 2007, in Syracuse, New York.

At the meeting, FRA intends to solicit oral statements from private crossing owners, railroads and other interested parties on issues related to the safety of private highway-rail grade crossings, which will include, but not be limited to, current practices concerning responsibility for safety at private grade crossings, the adequacy of warning devices at private crossings, and the relative merits of a more uniform approach to improving safety at private crossings. FRA has also opened a public docket on these issues, so that interested parties may submit written comments for public review and consideration.

**DATES:** The public meeting will be held in Syracuse, New York on February 15, 2007, at the Doubletree Hotel, 6301 State Route 298, Syracuse, New York, 13057, beginning at 9:30 a.m.

Persons wishing to participate are requested to provide their names, organizational affiliation and contact information to Michelle Silva, Docket Clerk, FRA, 1120 Vermont Avenue, NW., Washington, DC 20590 (telephone 202-493-6030). Persons needing sign language interpretation or other reasonable accommodation for disability are also encouraged to contact Ms. Silva. Additional public meetings will be announced as they are scheduled.

**FOR FURTHER INFORMATION CONTACT:** Ron Ries, Office of Safety, FRA, 1120 Vermont Avenue, NW., Washington, DC 20590 (telephone 202-493-6299); Miriam Kloeppe, Office of Safety, FRA, 1120 Vermont Avenue, NW., Washington, DC 20590 (telephone 202-493-6299); or Kathryn Shelton, Office of Chief Counsel, FRA, 1120 Vermont Avenue, NW., Washington, DC 20590 (telephone 202-493-6038).

**SUPPLEMENTARY INFORMATION:** For additional information, please see the initial notice, published July 27 in the *Federal Register* (citation: 71 FR 42713) and available at <http://a257.gakamaitech.net/7/257/2422/01jan20061800/edocket.access.gpo.gov/2006/pdf/06-6501.pdf>

#### Request for Comments

While FRA solicits discussion and comments on all areas of safety at private highway-rail grade crossings, we particularly encourage comments on the following topics:

□ At-grade highway-rail crossings present inherent risks to users,

including the railroad and its employees, and to other persons in the vicinity should a train derail into an occupied area or release hazardous materials. When passenger trains are involved, the risks are heightened. From the standpoint of public policy, how do we determine whether creation or continuation of a private crossing is justified?

□ Is the current assignment of responsibility for safety at private crossings effective? To what extent do risk management practices associated with insurance arrangements result in "regulation" of safety at private crossings?

□ How should improvement and/or maintenance costs associated with private crossing be allocated?

□ Is there a need for alternative dispute resolution mechanisms to handle disputes that may arise between private crossing owners and the railroads?

□ Should the State or Federal government assume greater responsibility for safety at private crossings?

□ Should there be Nationwide standards for warning devices at private crossings, or for intersection design of new private grade crossings?

□ How do we determine when a private crossing has a "public purpose" and is subject to public use?

□ Should some crossings be categorized as "commercial crossings", rather than as "private crossings"?

□ Are there innovative traffic control treatments that could improve safety at private crossings on major rail corridors, including those on which passenger service is provided?

□ Should the Department of Transportation request enactment of legislation to address private crossings? If so, what should it include?

Issued in Washington, DC, on December 29, 2006.

**Jo Strang,**

*Associate Administrator for Safety.*

[FR Doc. E6-22606 Filed 1-4-07; 8:45 am]

**BILLING CODE 4910-06-P**

## DEPARTMENT OF TRANSPORTATION

### Research and Innovative Technology Administration

[RITA-2006-26758]

#### Statement Regarding a Coordinated Framework for Regulation of a Hydrogen Economy

**AGENCY:** Research and Innovative Technology Administration, U.S. Department of Transportation.

**ACTION:** Notice of inquiry and request for public comment.

**SUMMARY:** The purpose of this *Federal Register* notice is to inform the public of current U.S. statutes and regulations that may be applicable to a hydrogen economy and to request comments on their interface. This notice describes and indexes several statutory and regulatory provisions of each major Federal agency and discusses possible applications of these provisions to aspects of a hydrogen economy, including construction and certification of transportation/ports infrastructure, the use of fuel cells to power automobiles and generate electricity for homes and businesses, and effects on public safety and health. The notice also describes the regulatory jurisdictions of each Federal agency in the context of a hydrogen economy. In addition, public comments are invited on a Web site that was created to depict the regulatory framework of a hydrogen economy. The Web site is located at <http://hydrogen.gov/regulations.html>. Comments will be used to improve the Web site.

**DATES:** Comments must be received on or before March 6, 2007.

**Public Participation:** The Ad Hoc Committee on a Regulatory Framework for a Hydrogen Economy (Ad Hoc Committee) of the Interagency Working Group on Hydrogen and Fuel Cells (IWG), which is part of the Executive Office of the President's National Science and Technology Council (NSTC), is seeking comments and advice from individuals, public interest groups, industry and academia on this statement regarding the framework for regulation of a hydrogen economy.

The Ad Hoc Committee members include the Office of Science and Technology Policy (OSTP), Department of State (DOS), U.S. Department of Transportation (DOT) (including the Federal Aviation Administration (FAA), Federal Highways Administration (FHWA), Federal Railroad Administration (FRA), National Highway Traffic Safety Administration (NHTSA), Federal Transit Administration (FTA), the Maritime Administration (MARAD), Federal Motor Carrier Administration (FMCSA), Pipeline and Hazardous Materials Safety Administration (PHMSA) and Research and Innovative Technology Administration (RITA)), Department of Agriculture (USDA), Department of Labor's (DOL's) Occupational Safety and Health Administration (OSHA), Environmental Protection Agency (EPA), National Aeronautics and Space Administration (NASA) and Federal



Federal Railroad Administration

# Private Grade Crossing Open Public Meetings

Presented by  
Robert Pressley, P.E.  
 **Gannett Fleming**

in conjunction with  
NCDOT Rail Division Engineering & Safety Branch

September 27, 2006

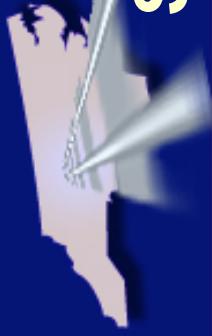
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RAIL DIVISION

**ENGINEERING AND SAFETY BRANCH**



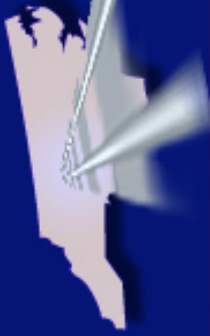
A-7-756





# Studies Involving Private Crossings

- Private Crossing Safety Initiative  
NCDOT Rail Division / North Carolina Railroad / Norfolk Southern (NS) – Raleigh to Charlotte, 140 track miles
- Traffic Separation Study  
Charlotte Area Transit System / NCDOT Rail Division – NS ‘O’ Line – Charlotte to Mooresville, 30 track miles
- Western North Carolina Area Crossing Studies  
NCDOT Rail Division – NS ‘S’ Line – Salisbury to Asheville – 143 track miles



# General Findings

1. 92 private crossings evaluated in the three studies including:
  - 39 providing residential access



Crossing 721718H Cornelius



# General Findings

1. 92 private crossings evaluated in the three studies including:
  - 18 providing farm access



Crossing 722977X  
Guilford Co.

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RAIL DIVISION  
**ENGINEERING AND SAFETY BRANCH**





# General Findings

1. 92 private crossings evaluated in the three studies including:
  - 29 providing industrial access



Crossing 729522H  
Long View





# General Findings

1. 92 private crossings evaluated in the three studies including:
  - 6 providing commercial access



Crossing 729425G  
Blue Ridge  
Broadcasting

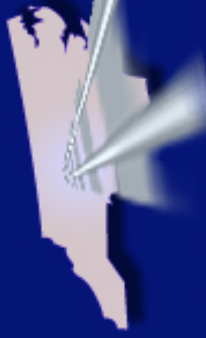
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RAIL DIVISION  
**ENGINEERING AND SAFETY BRANCH**





## General Findings

2. Written Agreements
  - No written agreements between the operating railroad and the crossing owner found in public land records
  - Written agreements between the operating railroad and the crossing owner were found for 25 of 92 crossings (**NS Archives**)



# General Findings

3. Crossing warning devices included:
- None -- 39



Crossing 904131T Guilford Co.

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RAIL DIVISION  
**ENGINEERING AND SAFETY BRANCH**





# General Findings

3. Crossing warning devices included:
  - Crossbucks -- 39

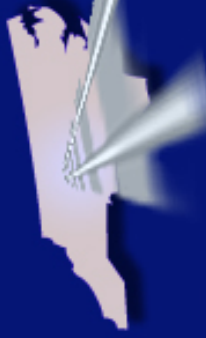


Crossing 722974C Guilford Co.

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RAIL DIVISION  
**ENGINEERING AND SAFETY BRANCH**







# General Findings

3. Crossing warning devices included:
  - Gated -- 5



Crossing 904230A Davidson Co.





# General Findings

3. Crossing warning devices included:
  - Gates/Flashers -- 9



Crossing 726293N Durham Co.

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RAIL DIVISION  
**ENGINEERING AND SAFETY BRANCH**





## General Findings

4. Industrial crossings pose special hazards
  - Public Service Company of NC – propane storage and distribution facility
  - Ingles Markets, Inc. – food service storage and distribution
  - N.C. Equipment Company – heavy equipment sales and services
  - Rankin Fryar – quarry and demolition landfill operations



## General Findings

5. Some residential crossings serve multiple properties
  - Byrdsville Road – 67 residential units
  - Terrell's Trailer Park – 12 residential units
  - Ethel Lane – 18 residential units
  - Stroup Farm Road – potential to access 300 undeveloped acres
  - 8400 Old Concord Road – 7 residential units



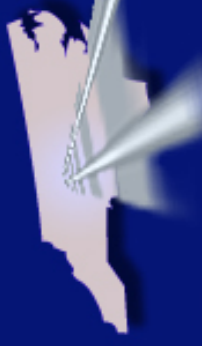
## Solutions Are Expensive

- Public Service Company of NC
  - Provide alt. access -- \$850,000
- Ingles Markets
  - Relocate crossing -- \$1,100,000
- Stroup Farm Road
  - Build grade separation -- \$10,000,000
- Richard C. Roberts
  - Acquire property/close crossing -- \$65,000



## Solutions Are Expensive

- Terrell's Trailer Park
  - Install gates/flashers -- \$150,000
- Huntersville Crossings
  - Upgrade 1 public crossing/consolidate 5 private -- \$980,000



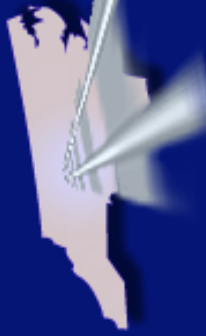
# Examples of Recommended or Implemented Enhancements

## Public Service Co. of NC



Construct access to NC-54

Close Existing Crossing



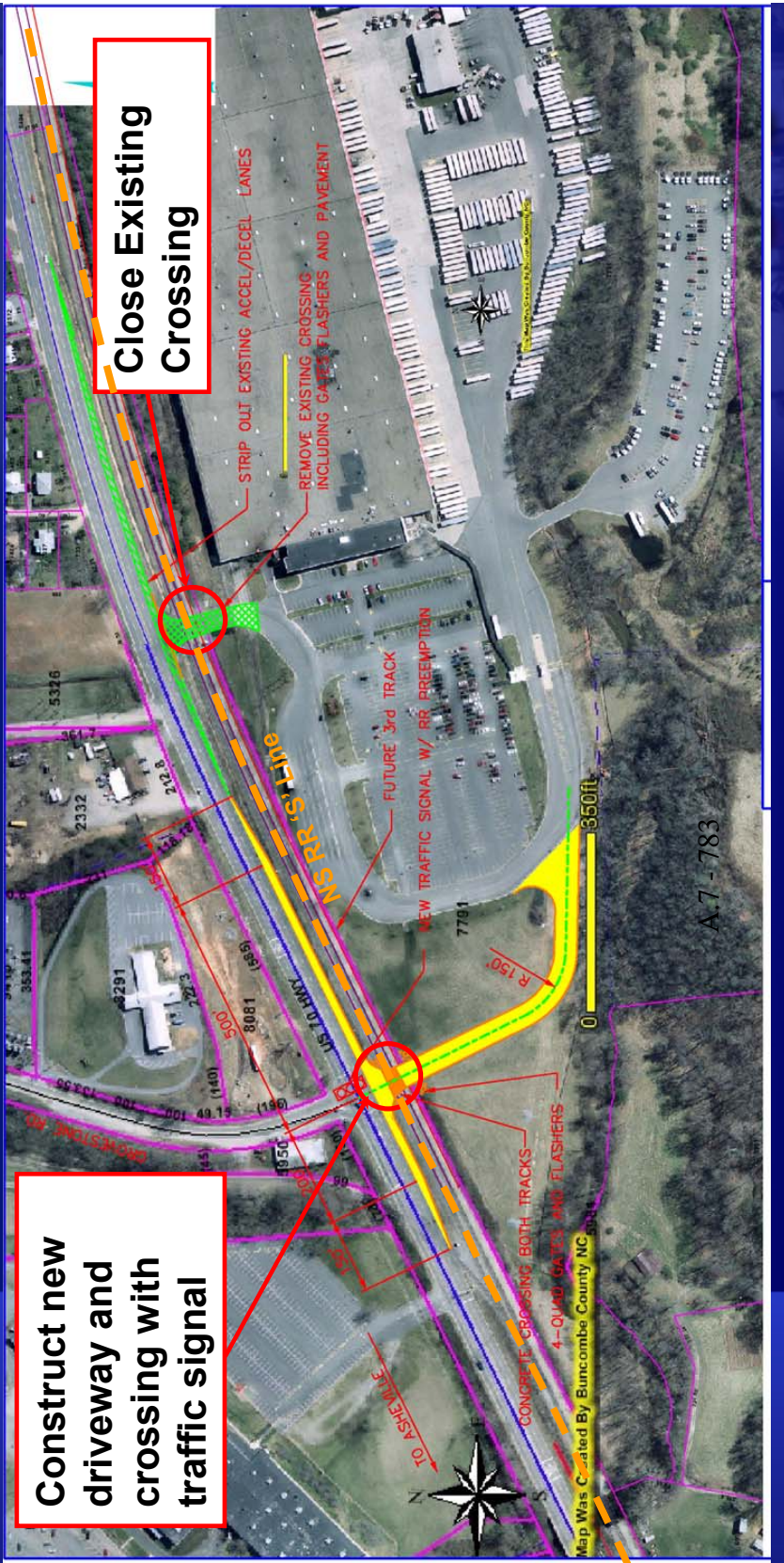
# Examples of Recommended or Implemented Enhancements Ingles Markets (near Asheville)

Existing Conditions





# Examples of Recommended or Implemented Enhancements Ingles Markets (near Asheville)

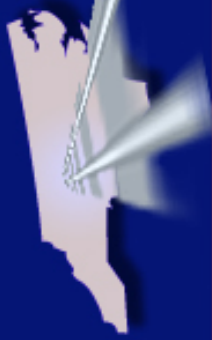




# Examples of Recommended or Implemented Enhancements

## Stroup Farm





# Examples of Recommended or Implemented Enhancements

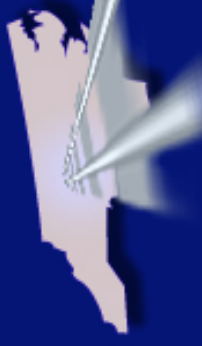
Stroup Farm area – Duke Power Substation



# Examples of Recommended or Implemented Enhancements

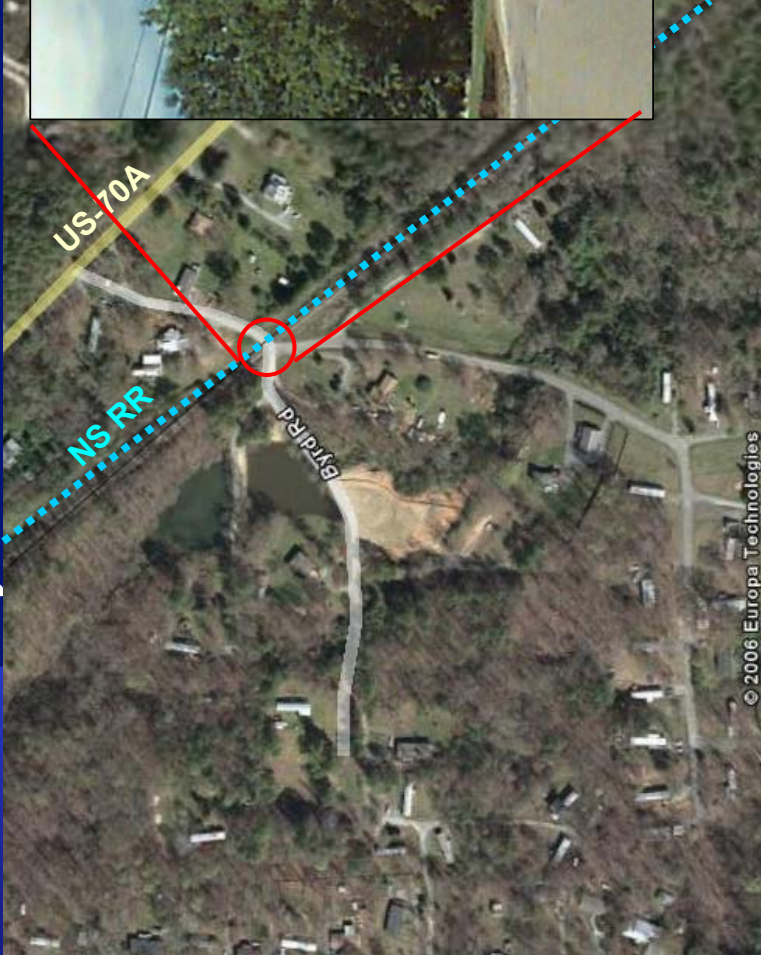
## Stroup Farm Area Private Crossings





# Examples of Recommended or Implemented Enhancements

## Byrdsville Road



© 2006 Europa Technologies

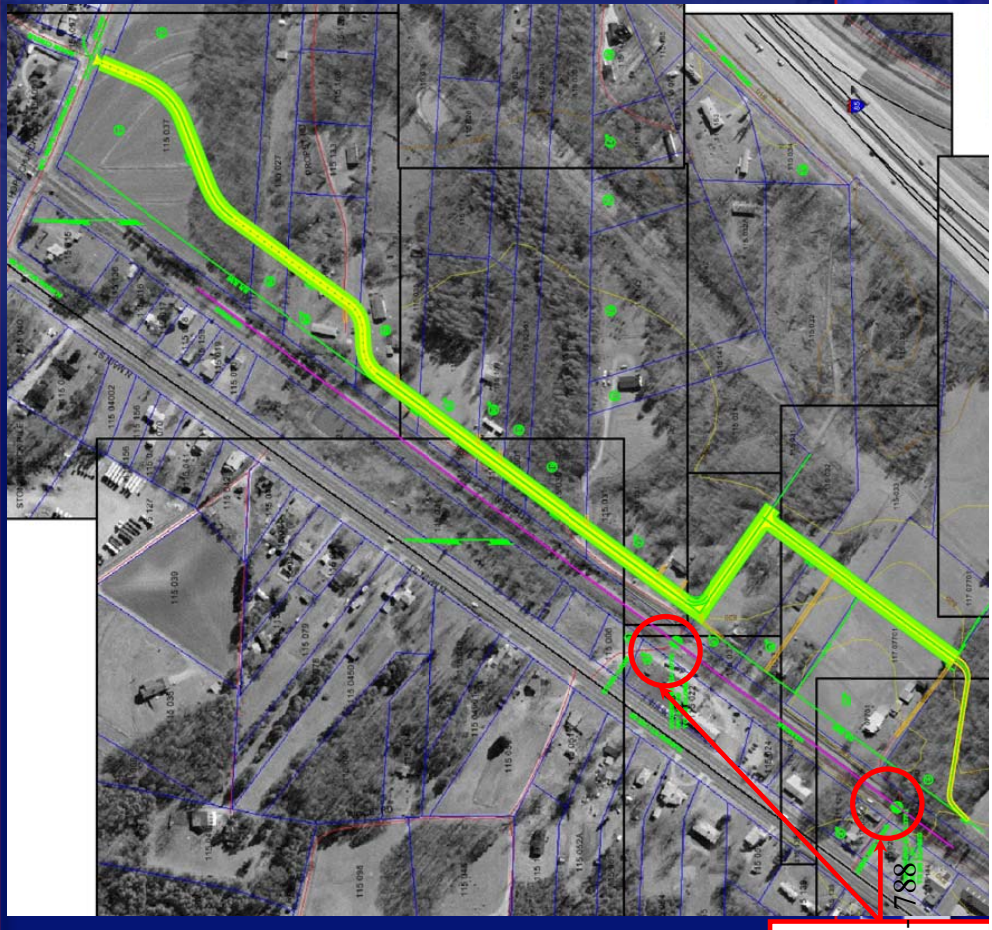




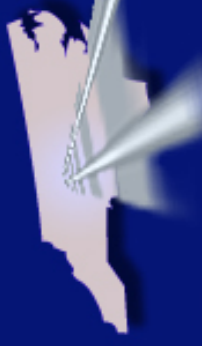
# Examples of Recommended or Implemented Enhancements

Ethel Lane

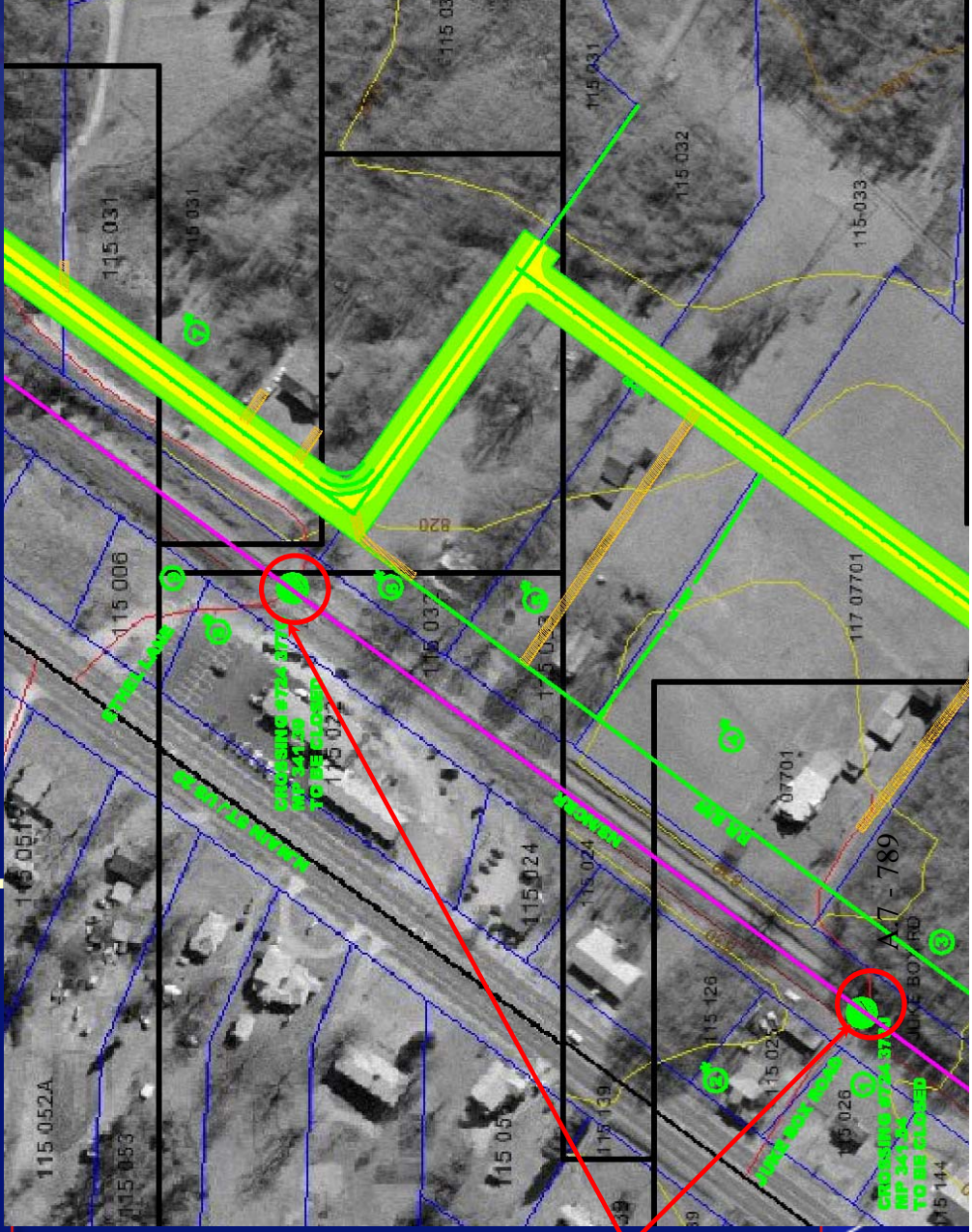
Juke Box  
Rd.



Close Existing  
Crossings and  
construct new  
road



# Examples of Recommended or Implemented Enhancements



Ethel Lane  
Juke Box  
Rd.

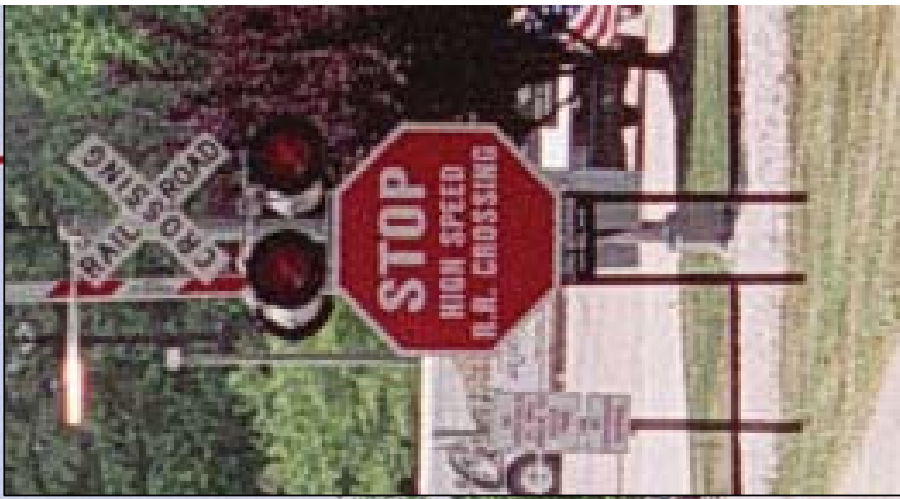
**Close Existing  
Crossings and  
construct new  
road**



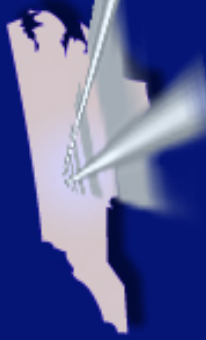
# Examples of Recommended or Implemented Enhancements



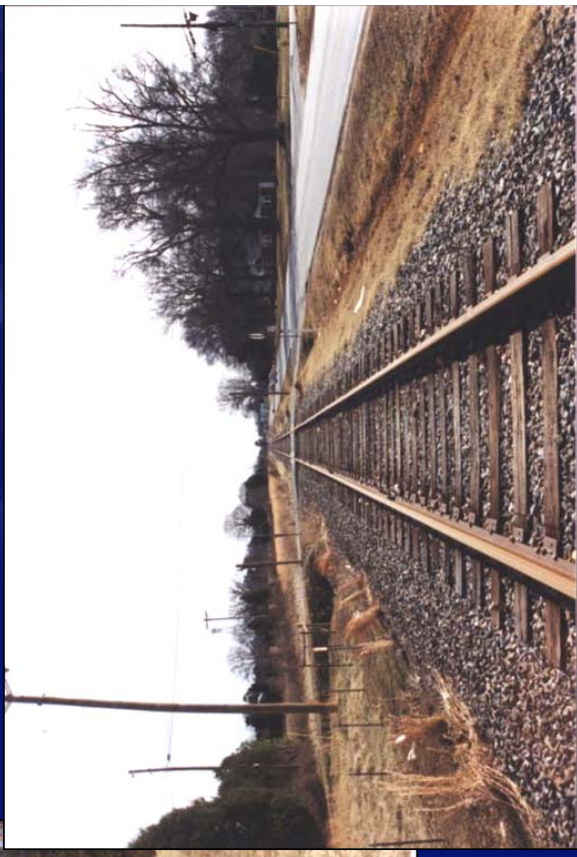
## Long Beverage





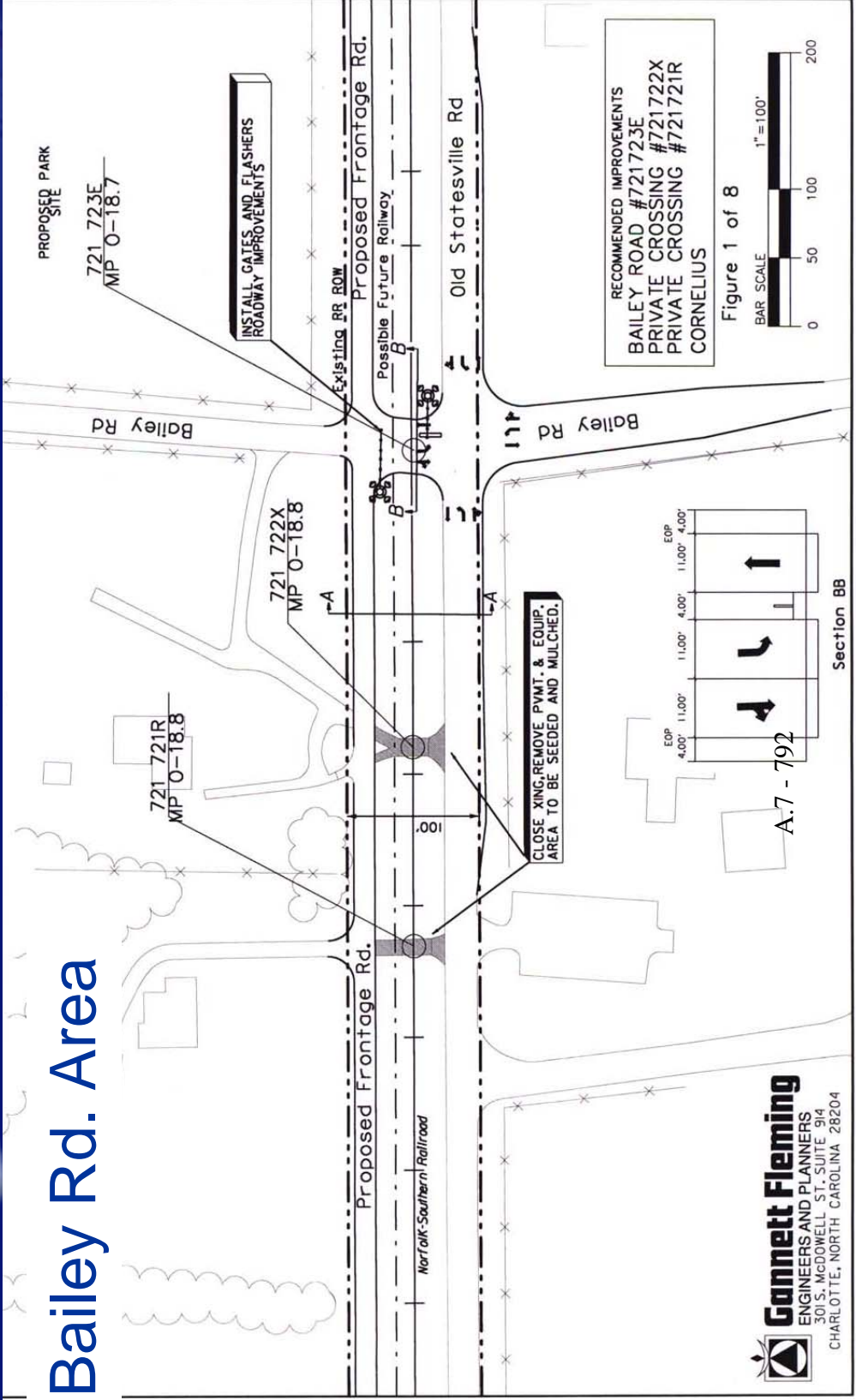


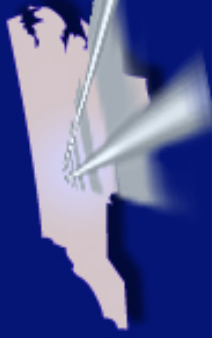
# Examples of Recommended or Implemented Enhancements Bailey Road area – Mecklenburg Co.



# Examples of Recommended or Implemented Enhancements

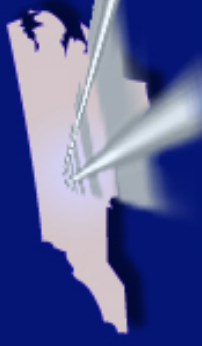
## Bailey Rd. Area





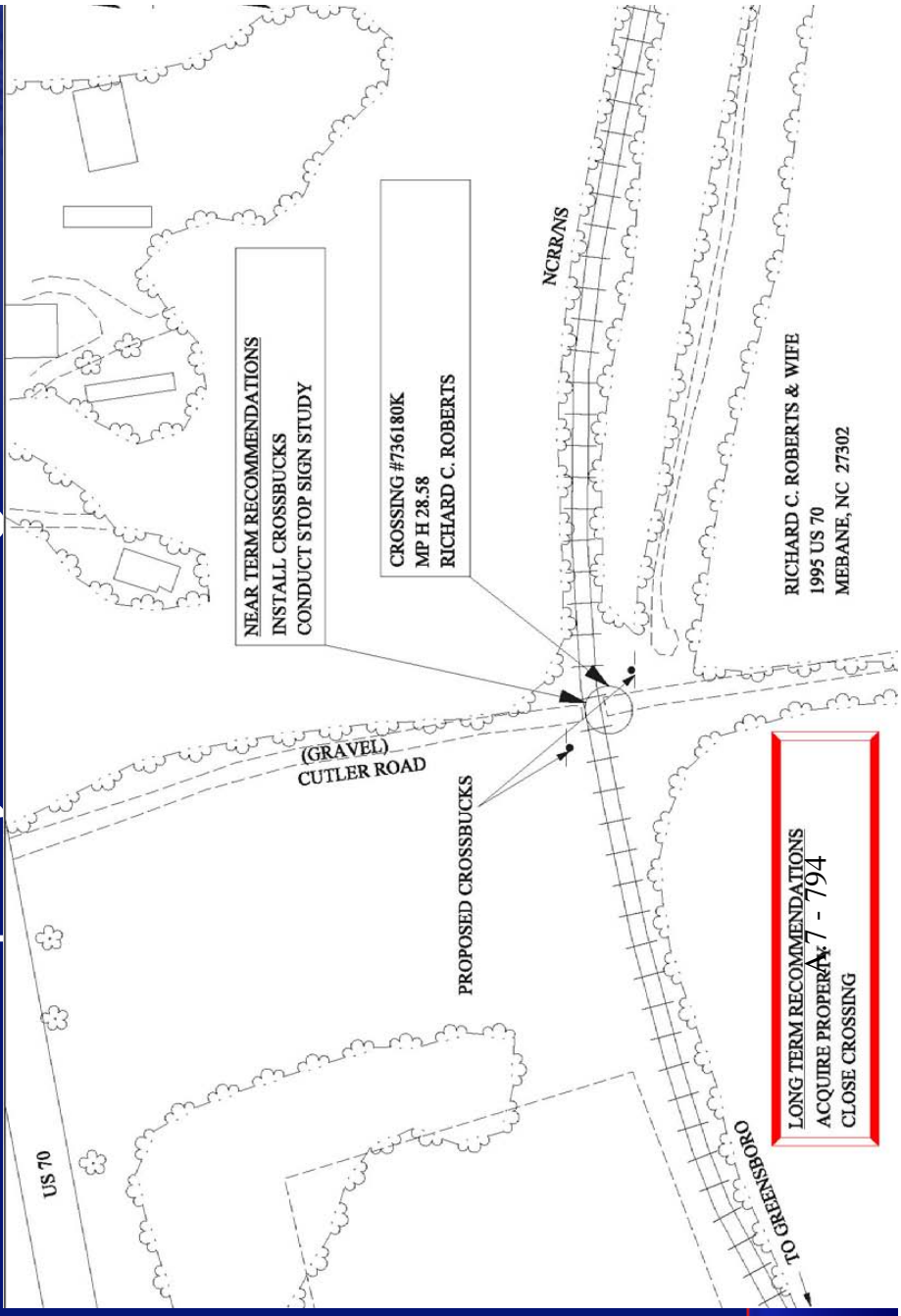
# Examples of Recommended or Implemented Enhancements Roberts Property – Alamance Co.





# Examples of Recommended or Implemented Enhancements

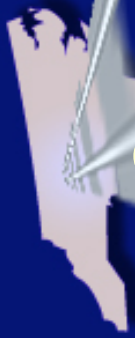
## Roberts Property – Orange Co.





## Conclusions about Private Crossings

- Enhancements/closures difficult to resolve
  - Agreements are between RR & private owner
  - Uncertainty about state, federal jurisdiction
- Can be frequently dangerous
  - Industrial hazards
  - Poor sight distance, little or no protection
  - Increased traffic, esp. from development



## Conclusions about Private Crossings (2)

- Enhancements often expensive
  - Often requires additional frontage roads to connect properties to public crossing
  - Can require grade separation or total property acquisition
  - Cost/benefit analysis difficult (FRA Graded model not set up for private crossings)
  - Legal implications?
- Additional study needed
  - Legal framework, cost/benefit models



# Questions?

Robert Pressley, P.E.



**Gannett Fleming**

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704.375.2438

Paul Worley, C.P.M.

NCDOT Rail Division Engineering & Safety Branch

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919.715.8740



Here's 35 crossings just in Missouri in 2006 crossing lights were STOLEN off public crossings the robbing railroads could move to the private railroad crossings if the FEDS are sooo concerned all of a sudden. The question is why the FRA railroad cronies are not in jail for allowing complete crossing workovers when gates are added when a 12 year old moron could just add gates to the existing lights for 20% of the cost. There's crossing lights/gates sitting all over the country on dead tracks not being moved and the FRA is worried about private crossings. Yeah right ---private crossings are the only place where the courts haven't been bought where the railroads can KILL FOR FREE at the blind pieces of crap crossings. This crap of court shaping for the railroads by the FEDS is illegal as hell or would be if the FEDS were not dirty co-conspirators in 1000s of railroad murders by NO law in violation of the FRA real job is.

19 0.092409 063104F BNSF MO BUCHANAN ST JOSEPH ILLINOIS&CHEER 0 0 0 0 0 06/06 GT  
85 3 60 YES 2 6,500

80 0.067688 063104F BNSF MO BUCHANAN ST JOSEPH ILLINOIS&CHEER 0 0 0 0 0 FL 85 3  
60 YES 2 6,500

208 0.042933 063121W BNSF MO BUCHANAN ST JOSEPH FOURTH ST. 0 0 0 0 0 06/06 GT 73  
3 45 YES 2 1,170

15 0.107520 063121W BNSF MO BUCHANAN ST JOSEPH FOURTH ST. 0 0 0 1 0 FL 73 4 45  
YES 2 1,170

415 0.031281 063112X BNSF MO BUCHANAN ST JOSEPH HICKORY ST 0 0 0 0 0 06/06 GT 79  
2 60 YES 2 500

252 0.040044 063112X BNSF MO BUCHANAN ST JOSEPH HICKORY ST 0 0 0 0 0 FL 79 2 60  
YES 2 500

417 0.031089 667700B BNSF MO WRIGHT MOUNTAIN GR HIGH ST. 0 0 0 0 0 06/06 GT 31 1  
40 YES 2 2,355

255 0.039892 667700B BNSF MO WRIGHT MOUNTAIN GR HIGH ST. 0 0 0 0 0 FL 31 1 40  
YES 2 2,355

443 0.030051 330053J KCS MO JASPER JOPLIN 9TH STREET 0 0 0 0 0 03/06 GT 24 2 50  
YES 2 3,100

269 0.039057 330053J KCS MO JASPER JOPLIN 9TH STREET 0 0 0 0 0 FL 24 2 50 YES 2  
3,100

510 0.027599 664598M BNSF MO PHELPS ROLLA 7TH STREET 0 0 0 0 0 06/06 GT 9 1 45  
YES 2 8,300



306 0.036997 664598M BNSF MO PHELPS ROLLA 7TH STREET 0 0 0 0 0 FL 9 1 45 YES 2  
8,300

514 0.027567 095216T BNSF MO BUCHANAN RUSHVILLE BLANK 0 0 0 0 0 06/06 GT 48 1 60  
YES 2 1,016

308 0.036969 095216T BNSF MO BUCHANAN RUSHVILLE BLANK 0 0 0 0 0 FL 48 1 60 YES 2  
1,016

538 0.026839 669024P BNSF MO BARTON GOLDEN CITY US 160 0 0 0 0 0 06/06 GT 27 1  
50 YES 2 1,960

323 0.036332 669024P BNSF MO BARTON GOLDEN CITY US HIGHWAY 160 0 0 0 0 0 FL 27 1  
50 YES 2 1,960

568 0.026010 663884P BNSF MO JEFFERSON FESTUS MILL AVE 0 1 0 0 0 06/06 GT 11 1  
40 YES 2 5,600

3 0.183807 663884P BNSF MO JEFFERSON FESTUS MILL AVE 1 0 0 1 1 FL 11 1 40 YES 2  
5,600

569 0.025998 667845M BNSF MO HOWELL POMONA 0 0 0 0 0 06/06 GT 30 1 45 YES 2  
1,602

33 0.084976 667845M BNSF MO HOWELL POMONA 0 0 0 0 1 FL 30 1 45 YES 2 1,602

575 0.025880 293587Y KCS MO JACKSON BLUE SPRING WOODS Rd. 0 0 0 0 0 03/06 GT 5  
1 40 YES 2 16,190

340 0.035474 293587Y KCS MO JACKSON BLUE SPRING WR OODS CHAPEL 0 0 0 0 0 FL 5 1  
40 YES 2 16,190

669 0.023308 664599U BNSF MO PHELPS ROLLA 6TH STREET 0 0 0 0 0 06/06 GT 9 1 45  
YES 2 5,500

393 0.033062 664599U BNSF MO PHELPS ROLLA 6TH STREET 0 0 0 0 0 FL 9 1 45 YES 2  
5,500

716 0.022260 083705U BNSF MO HOLT FORTESCUE BLANK 0 0 0 0 0 06/06 GT 43 1 50 YES  
2 690

419 0.032030 083705U BNSF MO HOLT FORTESCUE BLANK 0 0 0 0 0 FL 43 1 50 YES 2 690

795 0.020649 330143H KCS MO MCDONALD GOODMAN SPLITO AVE 0 0 0 0 0 03/06 GT 24 1  
40 YES 2 1,243

465 0.030385 330143H KCS MO MCDONALD GOODMAN SPLITLOG AVE 0 0 0 0 0 FL 24 1 40  
YES 2 1,243

858 0.019575 079383B BNSF MO RANDOLPH CLARK MADISON RD 0 0 0 0 0 06/06 GT 45 2  
45 YES 2 564

136 0.053081 079383B BNSF MO RANDOLPH CLARK MADISON RD 0 0 0 0 0 NO 45 2 45 YES  
2 564

862 0.019528 330031J KCS MO JASPER WACO MO YY 1 0 0 0 0 03/06 GT 24 1 50 YES 2  
1,085

506 0.029195 330031J KCS MO JASPER WACO 0 0 0 0 0 FL 24 1 50 YES 2 1,085

907 0.018686 330039N KCS MO JASPER JOPLIN ELK ROAD 0 0 0 0 0 03/06 GT 20 1 50  
YES 2 1,200

65 0.071830 330039N KCS MO JASPER JOPLIN ELK ROAD 0 0 0 0 1 FL 20 1 50 YES 2  
1,200

968 0.017871 664600L BNSF MO PHELPS ROLLA ROLLA 0 0 0 0 0 06/06 GT 9 1 35 YES 2  
2,880

578 0.027366 664600L BNSF MO PHELPS ROLLA ROLLA 0 0 0 0 0 FL 9 1 35 YES 2 2,880

1101 0.016073 293585K KCS MO JACKSON BLUE SPRING MAIN 0 0 0 0 0 03/06 GT 5 1 40  
YES 2 5,075

668 0.025278 293585K KCS MO JACKSON BLUE SPRING MAIN 0 0 0 0 0 FL 5 1 40 YES 2  
5,075

1120 0.015859 005352X BNSF MO RAY CAMDEN CO RD 10 0 0 0 0 06/06 GT 93 2 55 NO  
1 111

856 0.021746 005352X BNSF MO RAY CAMDEN CO RD 10 0 0 0 0 HS 66 2 55 NO 1 111

1166 0.015556 005014A BNSF MO CLARK KAHOKA SANTA FE ST 0 0 0 0 0 06/06 GT 61 4  
90 YES 2 76

177 0.046104 005014A BNSF MO CLARK KAHOKA SANTA FE ST 0 0 0 0 0 XB 61 4 90 YES 2  
 76

1193 0.015311 330046Y KCS MO JASPER JOPLIN 5TH ST 0 0 0 0 0 03/06 GT 24 1 50 YES  
 2 600

702 0.024359 330046Y KCS MO JASPER JOPLIN 5TH ST 0 0 0 0 0 FL 24 1 50 YES 2 600

1298 0.014262 329835B KCS MO CASS CLEVELAND MAIN ST 0 0 0 0 0 03/06 GT 24 1 55  
 YES 2 493

779 0.023058 329835B KCS MO CASS CLEVELAND MAIN ST 0 0 0 0 0 FL 24 1 55 YES 2  
 493

1349 0.013875 329863E KCS MO CASS DREXEL MAIN ST. 0 0 0 0 0 03/06 GT 24 2 55 YES  
 2 461

808 0.022566 329863E KCS MO CASS DREXEL MAIN ST. 0 0 0 0 0 HS 24 3 55 YES 2 461

1405 0.013236 329865T KCS MO BATES DREXEL ETHEL STREET 0 0 0 0 0 03/06 GT 24 1  
 55 YES 2 411

858 0.021743 329865T KCS MO BATES DREXEL ETHEL STREET 0 0 0 0 0 FL 24 1 55 YES 2  
 411

1493 0.012552 293588F KCS MO JACKSON BLUE SPRING VALLEY VIEW 0 0 0 0 0 03/06 GT  
 5 1 40 NO 2 2,779

921 0.020843 293588F KCS MO JACKSON BLUE SPRING VALLEY VIEW RO 0 0 0 0 0 FL 5 1  
 40 NO 2 2,779

1549 0.012198 063537L BNSF MO MARION HANNIBAL ROUTE "JJ" 0 0 0 0 0 06/06 GT 19 1  
 60 YES 2 447

957 0.020369 063537L BNSF MO MARION HANNIBAL ROUTE "JJ" 0 0 0 0 0 FL 19 1 60 YES  
 2 447

1655 0.011330 330157R KCS MO MCDONALD ANDERSON MILL STREET 0 0 0 0 1 03/06 GT 24  
 2 40 YES 2 380

22 0.092617 330157R KCS MO MCDONALD ANDERSON MILL STREET 0 0 1 0 0 XB 24 2 40  
 YES 2 380

1672 0.011235 664604N BNSF MO PHELPS ROLLA WALKER ST 0 0 0 0 0 06/06 GT 9 1 35  
 YES 2 930

1036 0.019055 664604N BNSF MO PHELPS ROLLA WALKER ST 0 0 0 0 0 FL 9 1 35 YES 2  
 930

1697 0.011003 673268F BNSF MO GREENE SPRINGFIELD HASELINE RD 0 0 0 0 0 06/06 GT  
 23 1 50 YES 2 280

1058 0.018732 673268F BNSF MO GREENE SPRINGFIELD HASELINE RD 0 0 0 0 0 FL 23 1  
 50 YES 2 280

1757 0.010505 079382U BNSF MO RANDOLPH CLARK VANDERPOPLARS 0 0 0 0 0 06/06 GT 45  
 2 45 NO 2 526

347 0.035252 079382U BNSF MO RANDOLPH CLARK VANDERPOPLARS 0 0 0 0 0 NO 45 2 45  
 NO 2 526

1883 0.009752 330120B KCS MO NEWTON NEOSHO BURR CROSSING 0 0 0 0 0 03/06 GT 24 1  
 40 YES 2 200

31 0.085927 330120B KCS MO NEWTON NEOSHO BURR CROSSING 0 0 0 0 2 FL 24 1 40 YES  
 2 200

1950 0.009312 063122D BNSF MO BUCHANAN ST JOSEPH FRANCIS ST 0 0 0 0 0 06/06 GT  
 61 3 45 YES 2 50

413 0.032255 063122D BNSF MO BUCHANAN ST JOSEPH FRANCIS ST 0 0 0 0 0 NO 61 3 45  
 YES 2 50

2143 0.008355 005345M BNSF MO RAY HENRIETTA CO RD 319 0 0 0 0 0 06/06 GT 93 2 79  
 NO 1 48

655 0.025606 005345M BNSF MO RAY HENRIETTA CO RD 319 0 0 0 0 0 OS 66 2 79 NO 1  
 48

2181 0.008228 330014T KCS MO JASPER ASBURY MAIN STREET 0 0 0 0 0 03/06 GT 24 2  
 50 YES 2 130

500 0.029363 330014T KCS MO JASPER ASBURY MAIN STREET 0 0 0 0 0 XB 24 2 50 YES 2  
 130

2226 0.007996 070172Y BNSF MO HOLT FOREST CITY BLANK 0 0 0 0 0 06/06 GT 57 2 60  
 YES 2 25

1496 0.014313 070172Y BNSF MO HOLT FOREST CITY BLANK 0 0 0 0 0 FL 57 2 60 YES 2  
 25

2251 0.007878 070142G BNSF MO ANDREW AMAZONIA BLANK 0 0 0 0 0 06/06 GT 57 1 60  
 NO 2 125

535 0.028390 070142G BNSF MO ANDREW AMAZONIA BLANK 0 0 0 0 0 NO 57 1 60 NO 2 125

2268 0.007747 095361S BNSF MO PLATTE FARLEY KISKER RD 0 0 0 0 0 06/06 GT 45 2 60  
 NO 1 169

554 0.028020 095361S BNSF MO PLATTE FARLEY KISKER RD 0 0 0 0 0 NO 45 2 60 NO 1  
 169

2276 0.007697 005263F BNSF MO CHARITON MARCELINE CO RD 223 0 0 0 0 06/06 GT 62  
 2 90 NO 1 56

557 0.027881 005263F BNSF MO CHARITON MARCELINE CO RD 223 0 0 0 0 0 XB 62 2 90  
 NO 1 56

2526 0.006588 070139Y BNSF MO ANDREW AMAZONIA BLANK 0 0 0 0 0 06/06 FL 57 1 60  
 NO 2 30

1085 0.018418 070139Y BNSF MO ANDREW AMAZONIA BLANK 0 0 0 0 0 NO 57 1 60 NO 2 30

2528 0.006581 669800M BNSF MO GREENE ASH GROVE 0 0 0 0 0 06/06 GT 21 1 40 YES 2  
 100

1040 0.019034 669800M BNSF MO GREENE ASH GROVE 0 0 0 0 0 SS 10 4 40 YES 2 100

2564 0.006497 095196J BNSF MO PLATTE IATAN COUNTY RD 0 0 0 0 0 06/06 FL 46 1 60  
 NO 2 40

1099 0.018201 095196J BNSF MO PLATTE IATAN COUNTY RD 0 0 0 0 0 NO 46 1 60 NO 2  
 40

2667 0.006185 005264M BNSF MO CHARITON MARCELINE CO RD 219 0 0 0 0 06/06 GT 62  
 2 90 NO 1 31

757 0.023403 005264M BNSF MO CHARITON MARCELINE CO RD 219 0 0 0 0 0 XB 62 2 90  
NO 1 31

2713 0.005963 293572J KCS MO JACKSON OAK GROVE CLINTON 0 0 0 0 0 03/06 GT 5 1 40  
YES 2 704

802 0.022711 293572J KCS MO JACKSON OAK GROVE CLINTON 0 0 0 0 0 XB 5 1 40 YES 2  
704

2758 0.005675 861088B BNSF MO MACON COLLEGE MOU ST ROUTE T 0 0 0 0 0 06/06 GT 3  
1 25 YES 2 670

1052 0.018819 861088B BNSF MO MACON COLLEGE MOU STATE ROUTE T 0 0 0 0 0 FL 10 1  
20 YES 2 670

2798 0.005533 861093X BNSF MO RANDOLPH COLLEGE MOU STATE C 0 0 0 0 0 06/06 GT 3  
1 25 YES 2 630

1082 0.018432 861093X BNSF MO RANDOLPH COLLEGE MOU STATE RT C 0 0 0 0 0 FL 10 1  
20 YES 2 630

2813 0.005490 070171S BNSF MO HOLT FOREST CITY BLANK 0 0 0 0 0 06/06 GT 57 5 60  
NO 2 10

2034 0.010266 070171S BNSF MO HOLT FOREST CITY BLANK 0 0 0 0 0 FL 57 5 60 NO 2  
10

2835 0.005350 330184M KCS MO MCDONALD NOEL S KINGS HIGHWA 0 2 0 0 0 03/06 GT 24  
1 40 YES 2 50

92 0.062987 330184M KCS MO MCDONALD NOEL 1 0 0 0 0 XB 24 1 40 YES 2 50

3010 0.004660 063528M BNSF MO MARION HANNIBAL ROAD 413 0 0 0 0 1 06/06 GT 19 1  
60 YES 1 30

105 0.058865 063528M BNSF MO MARION HANNIBAL ROAD 413 0 0 0 1 0 XB 19 1 60 YES 1  
30

3012 0.004646 070143N BNSF MO ANDREW AMAZONIA BLANK 0 0 0 0 0 06/06 GT 57 2 60  
NO 2 30

1084 0.018418 070143N BNSF MO ANDREW AMAZONIA BLANK 0 0 0 0 0 NO 57 2 60 NO 2 30

3057 0.004514 442252W UP MO COLE CENTERTOWN OLD STAGE ROAD 0 0 0 0 1 04/06 GT 23  
1 70 NO 1 85

108 0.057970 442252W UP MO COLE CENTERTOWN OLD STAGE ROAD 0 0 0 1 0 XB 23 1 70  
NO 1 85

3153 0.004196 664376D BNSF MO FRANKLIN ST CLAIR PUBLIC 0 0 0 0 0 06/06 GT 9 1 40  
YES 2 100

1214 0.016867 664376D BNSF MO FRANKLIN ST CLAIR PUBLIC 0 0 0 0 0 NO 9 1 40 YES 2  
100

3451 0.003134 079378E BNSF MO PLATTE KANSAS CITY COUNTY RD 0 0 0 0 0 06/06 GT 45  
2 45 NO 1 20

1654 0.013031 079378E BNSF MO PLATTE KANSAS CITY COUNTY RD 0 0 0 0 0 NO 45 2 45  
NO 1 20

3526 0.002897 293263W KCS MO PIKE BOWLING GRE RD 53 0 0 0 0 03/06 GT 5 2 40  
YES 1 100

1779 0.012139 293263W KCS MO PIKE BOWLING GRE RD 53 0 0 0 0 0 XB 5 2 40 YES 1  
100

3532 0.002858 442243X UP MO MONITEAU CENTERTOWN CO.RD. 0 0 0 0 0 05/06 GT 23 1  
70 NO 1 16

2941 0.005609 442243X UP MO MONITEAU CENTERTOWN CO.RD. 0 0 0 0 0 FL 23 1 70 NO 1  
16

3648 0.002466 330029H KCS MO JASPER WACO RD 284 0 0 0 0 03/06 GT 24 1 50 YES 2  
5

2006 0.010483 330029H KCS MO JASPER WACO RD 284 0 0 0 0 0 XB 24 1 50 YES 2 5

3935 0.001583 442251P UP MO COLE CENTERTOWN CO. RD 0 0 0 0 0 04/06 GT 23 1 70 NO  
1 5

2596 0.006933 442251P UP MO COLE CENTERTOWN CO. RD 0 0 0 0 0 XB 23 1 70 NO 1 5

4132 0.000754 861087U BNSF MO RANDOLPH COLLEGE MOU COUN. RT # 0 0 0 0 0 06/06 GT  
3 1 25 NO 1 30

2695 0.006535 861087U BNSF MO RANDOLPH COLLEGE MOU COUNTY RT # 0 0 0 0 0 XB 10 1  
20 NO 1 30

4152 0.000503 861085F BNSF MO RANDOLPH COLLEGE MOU COUNTY RT 0 0 0 0 0 06/06 GT  
3 1 25 NO 1 10

3210 0.004430 861085F BNSF MO RANDOLPH COLLEGE MOU COUNTY RT # 0 0 0 0 0 XB 10 1  
20 NO 1 10



Hmmm, why do the railroad signal people give a damn who pays for the safety lights/gates when they should be in prison for KNOWINGLY letting the railroads overcharge for new (really refurbished stolen used junk) and steal existing equipment?



U.S. Department  
Of Transportation

# Memorandum

**Research and  
Special Programs  
Administration**

John A. Volpe  
National Transportation Systems Center

**Subject: Safety at Private Crossings Public Meeting  
Fort Snelling, MN**

**Date:** October 12, 2006

**From:** Steven Peck

**Reply to  
Attn of:** RTV-3D

**To:** Miriam Kloeppe  
Federal Railroad Administration

The first of a series of public meetings on the safety at private highway-rail grade crossings in the United States was held on August 30, 2006 in the Bishop Henry Whipple Federal Building in Fort Snelling, MN. Hosted by the Federal Railroad Administration (FRA), Office of Safety, the public meetings are being conducted regionally in an effort to start a national discussion on the challenging issue of improving safety at the nation's largely unregulated private highway-rail grade crossings.

Private crossings are owned by private property owners for their personal use, not the use of the public. There are over 94,000 private highway-rail grade crossings in the United States that provide access to a multitude of different types of properties including residential, agricultural, industrial, and commercial. Each type of private crossing can offer its own unique safety characteristics and concerns.

Representatives from Class I railroads, State Agencies (Departments of Transportation), Unions, Federal Agencies, Non-profit Organizations, and Industry attended the public meeting to begin discussion on the safety at private crossings in an effort to assist the FRA in addressing this long standing issue.

The meeting began with formal introductions and welcoming statements leading directly into a brief presentation provided by the FRA. The presentation was utilized as a foundation for the meeting by providing background and statistical information regarding private grade crossings in the United States. Topics mentioned included the national highway-rail grade crossing inventory, examples of unique state responsibilities, Federal responsibilities regarding private crossings, private crossing agreement legal makeup, and examples of private crossing safety treatments. The presentation ended with a list of topical areas provided to assist in the guidance of the discussion.

Four individuals provided formal statements:

**Susan Aylesworth, Minnesota Department of Transportation (MNDOT)**

Welcome to Minnesota, we are glad you all came and we are honored to be chosen as the first of several public meeting locations on this topic. Just by way of information, *Minnesota has about 2,000 - 2,500 private railroad crossings* and this interestingly, *we do have a rule that talks about the appropriate crossing treatment at private crossings*, it's just that *we don't think we have jurisdiction to implement it*. That is an interesting quirk that may be unique to Minnesota, but our rules do talk about what is appropriate at private crossings and pretty much mirrors what we would expect to see at a public railroad crossing. One other issue that we struggle with, and maybe some of will you speak to this later, is that *we are unsure of what the definition of a private crossing is*.

We often times go out and if the public is using a location, we can't be sure whether that public use continues on both sides of the track and therefore should be counted as a public crossing or whether we should defer and leave it as a private crossing. And sometimes the railroads don't know that either. So it will be very interesting to hear what comments people make and *what issues they raise of course with Quiet Zone this is an issue too so we are looking forward to this discussion on this timely topic*.

**Bob Vander Clute, Executive Vice President, American Association of Railroads (AAR)**

In many cases *railroads have no authority to close or relocate private crossings or condition the use on the institution of appropriate safety measures*. For example, a private crossing may exist as the result of a deed granted when the railroad right-of-way was created. Or a state might require a railroad to grant farmers "suitable and convenient crossings," that they may continue in existence regardless of the frequency of which they are used.

Another issue is the nature of private crossings might change without the analysis of safety implications. A crossing that might only have been used by a land owner when first created could turn into a busy residential, industrial or commercial crossing later. If the crossing were a public crossing, a diagnostic team might evaluate the consequences of the *change in use*. In the case of a private crossing however, there is no mandate that such an examination take place. Typically the *users of private crossings should bear the cost of the safety improvements at the crossing for the benefit they receive from the crossing; however, it may be appropriate for public funding to be provided at private crossings that resemble public crossings*.

In the railroad's experience, insurance requirements do not drive the safety measures undertaken at a private crossing.

**Tim DePaepe, Director of Research, Brotherhood of Railroad Signalmen (BRS)**

Our first comment is that it's our position that the FRA should *prohibit the creation of new private crossings and work toward eliminating as many existing private crossings as possible*. However, if the FRA determines that it wants to allow the creation of new private crossings, then the *new (private) crossings should have at a minimum a set of grade crossing signal system flashing light signals*.

You also asked about how the improvement in our *maintenance costs* with private crossings should be allocated. We believe they should be *split equally between the state government*,

*federal government and the property owner*; however, each case should be evaluated on its own merit. There may be some cases where the responsibility allocation should be adjusted. The *state and federal government, for instance, should split the cost of the crossing warning system where school bus or other public transportation entity may utilize the crossing.*

But we believe the *state and federal government should assume greater responsibility*, you know, clearly by -- if no other reason, by the amount of fatalities that are happening.

We believe that *no private crossing should be created in the future* unless they are equipped with active crossing warning devices. And we also believe there should be *nationwide standards for warning devices at private crossings and for intersection design*. We believe they should be patterned after the standards contained in the *Manual on Uniform Traffic Control Devices, Part 8* which is subtitled Traffic Controls for Highway-Rail Grade Crossings. By taking this action, the users of the private crossings will be conditioned to respond to the stimuli that they encounter at other highway-rail grade crossings. We believe that *there should be consistency in the message for the warning* so that if there are public or private they get the same message and they take -- they take the same behavior.

It's our position that a *private crossing* should be defined as one used by a *sole land owner or lessee*. Once any other individuals routinely use the crossing, it should no longer be considered a private crossing but as a public crossing.

We believe it's imperative that any *private crossing that serves an industry should be held to the same standards for the highway-rail grade crossing signal system requirements*. Due to the types of trucks and materials that they carry, the severity of an accident at these crossings would be greater than an accident between a car and a train.

We believe you should *stick with proven technology* and utilize that.

We believe they (USDOT) *should request enactment of legislation to address private crossings*. At a minimum, the legislation should include the *site-line distances, signage requirements and grade crossing signal flashing light signals*.

### **Patty Abbate, Director, Citizens for Rail Safety (CRS)**

The subject of railroad safety of these railroad (private) crossings remains such *a critical issue that we at Citizens for Rail Safety are currently working with professors and researchers at the University of Tennessee in a study that is exploring this very subject*. Findings and recommendations from this study will be released in the fall of 2006. Along with the Federal Railroad Administration, we recognize that private railroad grade crossings present a unique set of challenges where safety is concerned. The lack of a uniform approach to safety for the nearly 100,000 private railroad crossings continues to be one of the main reasons why we are still faced with a conundrum of how to ensure safety at these sites. Unfortunately accidents and deaths at private crossings continue to occur.

*The rise in rail traffic that economists predict over the next decade will further put safety issues to the test at these private crossings.* At this time, it is critical that we find a solution to the growing safety concerns that loom before us here. We also recognize that *all private crossings are not created equal.* Some are used infrequently and others are used so extensively that the term "*commercial crossing*" should be used instead of private crossing. Private crossing *rights vary from crossing to crossing with legal rights of ownership and usage blurred.*

As the railroads, government, private industry and citizens take a closer look at this situation, together we need to consider revisiting a recommendation made back in '99 *to treat private crossings the same as public crossings with all the same safety regulations in place.* We need to *explore public private governmental partnerships* to ensure that the most dangerous private highway-rail grade crossings are protected with active warning devices. We need to *actively eliminate the number of private crossings whenever possible.*

The meeting was opened for discussion following the background information and formal introductions. Grady Cothen, Acting Associate Administrator for Safety Standards, FRA mediated the first half of the meeting, and Anya Carroll, Principal Investigator, Highway-Rail Grade Crossing Team, Volpe Center mediated the second half. During the open discussion many topics were mentioned and discussed both mediators guided the participants by utilizing the topical questions listed in the Federal Register Notice but allowing relevant, divergent discussion to materialize.

**At-grade highway-rail crossings present inherent risks to users, including the railroad and its employees, and to other persons in the vicinity should a train derail into an occupied area or release hazardous materials. When passenger trains are involved, the risks are heightened. From the standpoint of public policy, how do we determine whether creation or continuation of a private crossing is justified?**

Many attendees stated that the decision making process is lacking nationwide. Each state may have unique rules and regulations regarding private crossings and these rules and regulations are not always clearly known. Many participants felt that a nationwide process similar to established processes for public highway-rail grade crossings are needed.

In addition, local jurisdictions are urged to keep new developments private in order to alleviate the public from assuming responsibility. There may even be financial incentives for new developments to stay private.

- MNDOT:
  - No regulation capability over private crossings with the exception of insured, private farm crossings
  - Cost prohibitive to close private crossings
- Wisconsin Department of Transportation (WisDOT)
  - Railroads negotiate with private land owners regarding the agreement and installation of new private crossings
  -

- BRS:
  - Prohibit the creation of new private crossings
  - Eliminating as many existing private crossings as possible
  - New private crossings should have at a minimum a set of grade crossing signal system flashing light signals.

**Is the current assignment of responsibility for safety at private crossings effective? To what extent do risk management practices associated with insurance arrangements result in “regulation” of safety at private crossings?**

In many cases as a result of the age and specific arrangements with many of the private crossing agreements that have been made, no legal documentation is available to provide a basis for negotiations to modify or close the crossings. In some cases, there is no legal documentation available that formally acknowledges a private crossing. Insurance issues have not affected or restricted private crossing operation.

- AAR:
  - Insurance requirements do not drive the safety measures undertaken at a private crossing.

**How should improvement and/or maintenance costs associated with private crossing be allocated?**

Maintenance costs vary depending on the state and legal agreement between the railroads and private landowners. In some cases, the cost is split by the railroad and private owner while in other cases the railroad is responsible for the cost of maintenance. No organization appears to want to assume the financial responsibility associated with maintenance of new private crossings.

- WisDOT:
  - Railroads negotiate new private crossings details directly with private land owner.
  - Local jurisdictions do not want to assume the responsibility of maintenance over private crossings.
- BRS:
  - Split equally between the state government, federal government and the property owner (\*However, each case evaluated on its own merit).
  - State and federal government should split the cost of the crossing warning system where school bus or other public transportation entity may utilize the crossing.
- AAR:
  - Typically, railroads are responsible to research the original deed and negotiate maintenance costs with the private land owners.

**Is there a need for alternative dispute resolution mechanisms to handle disputes that may arise between private crossing owners and the railroads?**

A few states will provide mediation support between railroads and private land owners but the majority of cases are dealt with directly between railroads and private land owners or in extreme cases, through a court of law.

- WisDOT:
  - Railroad must negotiate with private owner regarding new private crossings.
  - Railroad responsible to research original deed and negotiate with owner.

**Should the State or Federal government assume greater responsibility for safety at private crossings?**

Most states lack the resources for current requirements and desires related to public crossings let alone the additional resources that would be required to assume a greater responsibility with private crossings. Some states do provide greater guidance and regulation

Many participants feel that the Federal Highway Administration (FHWA) has limited interest regarding highway-rail crossings in general, especially private crossings. This may be a result of crossing safety being viewed as low priority at FHWA due to the fact that crossing fatalities are a small percent of the total number of highway incidents and there are resource limitations within FHWA.

- WisDOT:
  - State is responsible for 50% of the maintenance cost at public crossings, however they are currently paying roughly 25%
  - Lack of funding available for grade separation
- MNDOT:
  - Mandates that yield signs are installed at all private crossings.
  - Currently spending 25% of available Section 130 funds on public crossing improvements.
  - FRA does not have the jurisdiction to enforce regulation on many highway warning devices associated with crossing safety.

**Should there be nationwide standards for warning devices at private crossings, or for intersection design of new private grade crossings?**

The general consensus was that nationwide standards would be beneficial. The first step would be to have an applicable nationwide definition of a private crossing and possibly a means to differential the varying types of private crossings. Different states require a varying degree of requirements, however, all agree something needs to be done.

- MNDOT:
  - Mandates that yield signs are installed at all private crossings.

**How do we determine when a private crossing has a ‘public purpose’ and is subject to public use?**

Most participants were in agreement that a clear, nationwide definition of private crossing is needed in order to determine if it has a public purpose and subject to public use. In addition to a clear definition, the answer may still be difficult to ascertain. In some cases, the users of a crossing may vary making it difficult to determine if the public is using the crossing. In other cases, there may be unsolicited users such as delivery companies or trespassers.

There are instances where private crossings provide access to the public for commercial sites on private property. In addition, the public may have to utilize a private crossing for seasonal or recreational access to a boat ramp or marina.

- WisDOT:
  - If the roadway on both sides of a crossing is not public, then the crossing is defined as a private crossing regardless of who utilizes the crossing.

**Should some private crossings be categorized as “commercial crossings” rather than as “private crossings”?**

There were a multitude of private crossing uses discussed in great detail. This list expands beyond solely distinguishing commercial crossings. Some categories can be heavily used by the public such as commercial, seasonal, and recreational. Others such as industrial or military may provide access for heavy trucks and hazardous materials. Each type or category may have a unique set of safety concerns.

Categories mentioned:

#	Category	#	Category
1	Agricultural / Farm	7	Government / Public Facilities
2	Industrial	8	Military
3	Commercial	9	Railroad Internal Facility
4	Residential	10	Recreational
5	Non-Vehicular (e.g. Pedestrian / Bicycle)	11	Seasonal
6	Institutional (e.g. University)	12	Temporary (e.g. Logging, Construction)

**Are there innovative traffic control treatments that could improve safety at private crossings on major rail corridors, including those on which passenger service is provided?**

Most agreed that the implementation of any safety warning devices would be beneficial. There was some agreement with the implementation of proven warning devices currently in use as opposed to unproven, innovative technologies. The North Carolina Department of Transportation experience regarding private warning devices utilized during the work that was conducted on their state high-speed rail corridor was referenced as a possible point of investigation and data research.



**Should the Department of Transportation request enactment of legislation to address private crossings? If so, what should it include?**

This topic was not fully addressed or discussed in any detail.

#

CC: file  
Grady Cothen  
Ron Ries  
Anya Carroll



U.S. Department  
Of Transportation

# Memorandum

**Research and  
Special Programs  
Administration**

John A. Volpe  
National Transportation Systems Center

**Subject: Safety at Private Crossings Public Meeting  
Raleigh, NC**

**Date:** October 13, 2006

**From:** Steven Peck

**Reply to  
Attn of:** RTV-3D

**To:** Miriam Kloeppe  
Federal Railroad Administration

The second of a series of public meetings on the safety at private highway-rail grade crossings in the United States was held on September 27, 2006 in the McKimmon Conference and Training Center, North Carolina State University, Raleigh, NC. Hosted by the Federal Railroad Administration (FRA), Office of Safety, the public meetings are being conducted regionally in an effort to start a national discussion on the challenging issue of improving safety at the nation's largely unregulated private highway-rail grade crossings. This meeting was conducted with the focus on engineering treatments to improve safety at private crossings.

Private crossings are owned by private property owners for their personal use, not the use of the public. There are over 94,000 private highway-rail grade crossings in the United States that provide access to a multitude of different types of properties including residential, agricultural, industrial, and commercial. Each type of private crossing can offer its own unique safety characteristics and concerns.

Representatives from Class I railroads, State Agencies (Departments of Transportation), Unions, Federal Agencies, Industry, and concerned citizens attended the public meeting to continue discussion on the safety at private crossings in an effort to assist the FRA in addressing this long standing issue.

The meeting began with formal introductions and prepared statements that lead directly into a brief presentation provided by the FRA set a basis for the discussion. The presentation was utilized as a foundation for the meeting by providing background and statistical information regarding private grade crossings in the United States, and briefly surmised key points from the first public meeting held in Minnesota on August 30, 2006.

Five individuals provided formal statements prior to open meeting discussion:

**Pat Simmons, Director, Rail Division, North Carolina Department of Transportation**  
**(NCDOT)**

In Washington, as here in Raleigh, in North Carolina, *public partnerships* are again in vogue, and today's topic of dealing with private crossings will, I hope, get us to that topic a little bit as well.

One of the challenges that we have in administering our program is *we do not as a state have direct authority over private crossings*. So that's an area where I'm not seeking more responsibility or more authority, but *we need tools to improve safety*.

And one of the things that we value a great deal is that we have been able to partner with all of these folks to *improve safety through elimination of crossings that were redundant* or in addition to what we normally needed. That's always presented some challenges.

**Paul Worley, Assistant Director, Engineering and Safety, NCDOT**

Following a great part of the implementation of Sealed Corridor, the NCDOT has taken the same off-the-shelf or clear-minded solutions approach to private crossings on the Raleigh and Charlotte border. We emphasized *closure* and *alternate access* of possible signalization of high volume crossings, *signage* and even consider *new mandates and laws*.

There are many challenges for private crossings, as Miriam mentioned, and some that we see and deal with every day. First of all, *as a private issue, there are generally no public funds for capital improvements on the state or federal level or maintenance beyond special grant funds*, which we have been fortunate to receive.

There are varied types. I will name just a few, and you may even have more. *Private use residential, farm, industrial, plant to plant, railroad*, private crossings, and then there are the *public use crossings residential development, business, industrial, recreational and even golf cart crossings*, and those are important.

*Private agreements and deeds* may cover the crossings and *involve multiple parties* over many years. And then finally *resources to maintain an accurate inventory of private crossings in a comprehensive manner are not there* either at the federal or state level.

USDOT, railroads through AREMA and AAR, the states through AASHTO, and rail transport operators through APTA should collaborate to *develop a consistent approach*, such as was done with the Crossing Technical Work Group document was developed through ITE.

*Stakeholders*, federal and state agencies, local government, transit authorities, railroads and private crossing owners may eventually *need to develop a methodology to share costs associated with grade crossing safety treatment, construction and maintenance* based on local conditions and needs and users.

*Disputes are handled through the courts in the local area* which presents a challenge to the ruling party, since they can be *biased towards the landowner*, and litigation is always costly for both parties. There is merit in the *development of an unbiased committee to determine the*

*outcome of these disputes*. Because railroads engage in interstate commerce, *dispute resolution should be considered for handling at the federal level*, perhaps by the FRA through their regions, using crossing safety managers in support of the effort.

*Nationwide federal guidelines* should be considered for development of our stakeholders through AASHTO, AREMA, APTA and the National Committee on Uniform Traffic Control Devices guidelines, rather than regulation would allow all parties to work through the process incrementally and learn accordingly. So if we can work through the process of *guidelines and best practices*, that may be a good approach. *Innovative and cost effective approaches* should be encouraged, researched and tested for the common good.

A technical working group with *identified stakeholders should be considered to develop guidelines* or criteria that distinguish between a true private crossing versus one that has a public purpose. This technical work group can also contribute *guidance for warning device selection and application* for private crossings.

The categories utilized in the national crossing inventory should be reviewed to differentiate between *potential traffic volumes and/or service to single versus multiple users at recreational, commercial, industrial crossings and residential*.

To date, *innovative treatments have not provided either reduced cost or adequate safety improvements* to justify their use for any but experimental institution in controlled test environment.

There are *many issues to resolve prior to making this determination on enactment of legislation* to address private crossings. Examples include:

- How are all of the users of the crossings going to be determined?
- How can all the agreements be gathered and input into a national database?
- How are private crossings, where agreements cannot be found, to be handled?
- How will all of the dirt/gravel highways be addressed regarding the approaches to private crossings?
- How are safety improvements to be funded?
- How are national security concerns for the railroad infrastructure and commodities to be addressed?

**Bob Pressley, Senior Project Manager, Gannett Fleming**

Our findings of all of these three studies within 313 track miles, we found:

- **92 private crossings**
  - 39 provided residential access
  - 18 provided access to farms
  - 29 provided industrial access
  - 6 provided commercial access
    - e. g., Billy Graham radio station

- **No written agreements** recorded in the public land records  
Norfolk Southern found 25 agreements in their archives

### **Warning device Applications**

39 had none, 39 had crossbucks, 5 had gates and locks, 9 had gates and flashers.

### **Industrial crossings:**

- Public Service Company of North Carolina operates a propane storage and distribution facility 100 tractor trailer loads of propane in during the winter.
- Ingles Markets, large grocery store chain operating in six states warehouse facility located on private crossing.
- North Carolina, equipment company
- Low board trucks and trailers
- Heavy equipment
- Rankin Fryar, quarry and demolition

### **Residential crossings:**

- Serve more than one residence
- 67 residential units
- Terrell's Trailer Park
- 12 units
- Ethel Lane
- 18 residential units
- Stroup Farm
- Potential to serve 300 acres of farm land proposed for redevelopment as residential

*Solutions can be very expensive.*

Finally, we think there probably is additional study needed, some type of *a cost benefit model* probably should be developed to deal with this issue.

### **John Perry, West Virginia Public Service Commission**

*A large number of incidents* that occur within our state have been at private crossings, whether they are commercial grade or a residential area.

### **Tina Medlin, Private Citizen**

I basically came today to educate myself, because I am currently *affected by improvements in the railroad*. I have property that borders a railroad that I've had for 20 some-odd 14 years. I purchased this property, and my access is a prescriptive easement contained within the railroad right-of-way.

The house had been there since the turn of the century, that's the 1900s, not 2000, but several years after I purchased it, I tried to sell it, and then I found that I had *no recorded legal access*. But the attorney said my *prescriptive easement was good enough to allow me to continue to have access*, even though it was unrecorded.

In the last two years, the hundred acres to the north of me was purchased by a developer and an *industrial park is going in*. Access to that particular property had been along a dirt road, *a private crossing*, that's going to be the *access to the industrial park* that's going in. I'm a little concerned because the industrial park that is going in next to me has got a siding, so there will actually be *a crossing across the railroad track and the siding*, and it's going to be a reload center, where they are taking railroad cars and off loading and then loading them onto other trains, loading them onto other 18 wheelers, and there will also be some storage facilities there too.

The prepared statements and presentations led directly into the open discussion focused on engineering treatment for safety at private crossings and were moderated by Anya Carroll, Principal Investigator, Rail and Transit Systems Division, Volpe Center.

### **Would it be valuable for a group to establish a base line parameter?**

The group believed that a baseline parameter would be valuable and is needed. Outreach would need to be made to as many stakeholders as possible and a list of organizations that should be involved was drafted. Mention was made of the 2002 Technical Working group that had planned to revisit the work in 2007 (five year anniversary). The 2002 Technical Working group had diverse audience participation because it held meetings at regional conferences.

#### **Organizations to be involved:**

Federal Highway Administration (FHWA)  
FRA  
Railroads  
Planning Associations  
Track Maintenance  
Federal Motor Carrier Safety Administration (FMCSA)  
ITE (2002 Technical Working Group)

#### **American Association of Railroads (AAR)**

- No one from highway side is helping the improvement
- AASHTO can be active at supporting the engineering aspects

### **Passive Crossing Categorization**

In addition, the group discussed categorizing private crossings based on different characteristics. The list of categories created at the first meeting in Minnesota was used for reference. Mention of terminology being investigated in Canada was also discussed.

#### **Private Crossing Categories from MN – Desired changes**

Commercial vs. Recreational  
Distinguish between Industrial vs. Low Density  
ADT should be criteria for within Commercial

## **NCDOT**

- Military - public access roads within the military base; versus you have military purpose roads, where you have tanks and other heavy equipment. [Equipment vs. Non-equipment]
- Should use ADT and types of traffic to differentiate within a private crossing category (e.g. Commercial Wall-mart vs. Commercial mom & pop television repair shop).
- Restricted vs. unrestricted could be determined by the presence of a gate.

## **SPURLOCK**

- Should look into using the description restricted and unrestricted that Transport Canada is utilizing
  - Restricted would be somebody's really private property
  - Unrestricted - This would be going into industrial yard.
- Frequency of use could be another way to categorize.

## **Data Collection**

What the best method and who should be responsible for passive crossing data collection was discussed.

## **NCDOT**

- NC collects commercial versus industrial and residential, recreational, institutional.
- States are in the best position to collect data regarding private crossings.
- There are issues with training University students to collect data
- Safety concerns when entering private property

## **Distinguish Public from Private Crossings**

A means to distinguish a private crossing from a public crossing was addressed.

## **FRA**

- Changing from private to public could be confusing and cause funding issues.
- Best approach is to create sub-categories for private crossings
- Private crossings with public access and no gates could mean ok for public use
- Ownership of land not the number of vehicles that utilize a crossing determines whether it is public or private.

## **Engineering Design Suggestions**

There were many views and suggestions regarding what would be considered optimal engineering implementations. Currently there is no uniformity on signage being implemented. There are also currently no proven Intelligent Transportation Systems technologies available to address the issue. Current safety treatments mentioned ranged from the State of California and three Class I railroads installing "STOP" signs at private crossings to some Class I railroads installing their own warning signs. All agreeing that crossing closure would be the best scenario although not usually an option.

## **NCDOT**

- Closure is ideal however the right-of-way would need to be acquired to achieve closure
- Issues determine the use of STOP or YIELD sign
- Difficultly with geometrics – especially approaches on private property
  - Evaluate each location
  - Private crossings often have to follow their geometry
- Consider that you have to stay on Right-of-way if you are using public funds (with exceptions).
- Developers should be subject to certain standards at private crossings

## **CSX**

- Property rights acquisition
  - Condemn order
  - Compensate / negotiate with owner
  - Relocate access point

## **Norfolk Southern:**

Stop signs give opportunity to see if a train is coming vs. a yield sign when vehicle is moving.

## **Treatment Options by Crossing Type**

Currently implemented engineering safety treatments that are utilized at public crossings were discussed by type, Passive and Active. The application of public crossing standards to private crossing was made.

### ***Passive Crossing***

- Lockable gates (e.g. seasonal, storage, etc.)
- Signage
  - STOP signs (e.g. CA and three Class I railroads)
  - YIELD signs
  - LOOK signs
  - Pavement markings – STOP bar
  - Unique Railroad company signs (e.g. BNSF sign)

### ***Active Crossings***

- Hump crossing signs
- Agreement with Railroad and Industry regarding large volume vehicles and types of vehicles
- Railroad check list for priority

## **Crossing Separation**

Grade separation was discussed briefly. All agreed that there are usually financial restrictions to grade separation. One example between a major industrial location and the railroads was sited at a cost of \$5-25 million to complete.



**How can the Railroad ask for Limited Access?**

**CSX**

NY State – a high-speed rail line has the authority to deny usage of private crossings.

#

CC: file  
Grady Cothen  
Ron Ries  
Anya Carroll



U.S. Department  
Of Transportation

# Memorandum

**Research and  
Special Programs  
Administration**

John A. Volpe  
National Transportation Systems Center

**Subject: Safety at Private Crossings Public Meeting  
San Francisco, CA**

**Date:** November 24, 2006

**From:** Steven Peck and Anya A. Carroll

**Reply to  
Attn of:** RTV-3D

**To:** Miriam Kloeppe  
Federal Railroad Administration

The third of a series of public meetings on the safety at private highway-rail grade crossings in the United States was held on October 26, 2006 in the Philip Burton Federal Building and Courthouse, San Francisco, CA. Hosted by the US DOT's Federal Railroad Administration (FRA), Office of Safety, the public meetings are being conducted regionally in an effort to start a national discussion on the challenging issue of improving safety at the nation's largely unregulated private highway-rail grade crossings. This meeting was conducted with the focus on responsibilities for safety at private crossings.

Private crossings are owned by private property owners for their personal use, not the use of the public. There are over 94,000 private highway-rail grade crossings in the United States that provide access to a multitude of different types of properties including residential, agricultural, industrial, and commercial. Each type of private crossing can offer its own unique safety characteristics and concerns.

Representatives from Class I railroads, State Agencies (Departments of Transportation), Unions, Federal Agencies, Industry, and concerned citizens attended the public meeting to continue discussion on the safety at private crossings in an effort to assist the FRA in addressing this long standing issue.

The meeting began with formal introductions and welcoming speeches by the honorable Clifford C. Eby, Deputy Administrator, Federal Railroad Administration and Mr. Vahak Petrossian, Manager, Rail Transit and Crossing Branch, California Public Utilities Commission (CPUC). Following Deputy Administrator Eby and Mr. Petrossian, there were two prepared statements, one from the CPUC and the other from the California Department of Transportation (CalTrans) that lead directly into a brief presentation provided by the FRA used to set a basis for the discussion. The presentation was utilized as a foundation for the meeting and briefly summarized key points from the previous two public meetings held in Minnesota and North Carolina. The ensuing open discussion was structured to address the issue of responsibility through the use of case study examples and hypothetical situations.

Summary of the formal statements prior to the open meeting discussion:

**Vahak Petrossian, Manager, Rail Transit & Crossings Branch, California Public Utilities Commission (CPUC)**

Private crossing, it's a major issue, and unfortunately, *the major problem is the private property owners who don't participate in these proceedings*. They are the ones that I think need to be heard, need to participate, and take responsibility for a lot of the private crossings on the railroad. Fifty years ago the crossing was established, there was nothing there, maybe one farmhouse and over the years we continue with it. We think that *the folks who give authority to a new development, whether it's the city government, the local governments giving business licenses or something, they also have a responsibility to address railroad safety*.

**Daren Gilbert, Supervisor, Rail Crossings Engineering Section, California Public Utilities Commission (CPUC)**

The CPUC exercises rail safety oversight over railroads in California under the California Public Utilities Code and under the State Participation Program with the USDOT Federal Railroad Administration. The CPUC also has *exclusive jurisdiction over highway rail crossings in the State*. Specifically, in regards to private crossings, the *CPUC has the authority to determine the necessity for any private crossing and the place, manner, and conditions under which the crossing shall be constructed and maintained, and to fix and assess the costs and expenses of that crossing*.

The *Commission's General Order 75 (D)* contains administrative rules governing the standardization and use of warning devices at highway-rail crossings, and has an entire *regulation directed at warning devices at private highway rail crossings*. It requires a *minimum of a stop and private crossing sign posted on each approach to the private highway-rail crossing*. General Order 75 (D) also requires a written agreement be developed to authorize the crossing between the parties.

Unless the approaches to the private crossings are controlled, for example, by locked gates or at least posted as private property, the public, for example, may be using it, therefore, individuals other than the invitee, guests, and employees of the property owner may use with or without permission many private crossings. Furthermore, if a private crossing is publicly used, such as ones that provide access to a business, then the general public is exposed to the same level of hazard as with any other public crossing. *Anytime there is a probability that the public may be exposed to harm by a private crossing, it becomes a public safety issue requiring diagnostic review and special consideration*. In such cases, *state government oversight of the crossing is appropriate*.

*Currently, the railroads and private crossing owners share the liability for the safety at private crossings*, the property owners share an interest in minimizing their exposure to financial liability. Because there are few controls at most private crossings assuring usage by only authorized parties, the use of the private crossings can change over time. *We are not confident that such changes in use would be identified in a timely manner and addressed by the railroad or the landowner*.

We recommend some mechanism where the State or local government identifies increased or changed land use in landlocked parcels through permitting or project approval to identify such changes in the dynamics in the highway-rail grade crossing and its use. The best time to determine an increase in motor vehicle, bicycle, or pedestrian usage at railroad crossings is when the developer seeks approval of new commercial or residential projects. For the past three years, the CPUC has been reviewing proposed developments, and concerning potential impact on public safety under the California Environmental Quality Act (CEQA).

Under CEQA, the lead agency for the proposed development is required to respond to public comments concerning the project. There are, however, *many instances where we are not aware of private crossings, and therefore, cannot make specific recommendations*. As to costs, generally, allocation of improvement and/or maintenance costs is agreed to by the landowner and railroad as parties entering into the legal instrument establishing the private crossing. We believe this is appropriate. In California, where the landowner and railroad do not agree, the Commission may apportion such costs.

The CPUC allows for administrative legal review by public hearing in crossing matters. Administrative law judges hear crossing cases and prepare proposed decisions for consideration by the Commission. The *CPUC has its own alternative dispute resolution mechanism*. The issues involved with private crossings include *property rights, contract law, and the safety responsibility for the traveling public*, all of which have traditionally been within the State's responsibility.

Many of the grants of rights-of-way in California were created in the 19th century at the time of the initial railroad line construction. Both the rights-of-way and the crossing agreements may be found in deeds of trust, quit claim deeds, and other contractual arrangements between the railroads and landowners subject to the laws of the State of California. Therefore, *we strongly recommend keeping the responsibility of the safety of private crossings with the States*. The FRA may issue guidelines, for the benefit of States that do not have laws on this subject and provide recommended language for laws and regulations. However, the CPUC contends that *public and private crossing safety regulation is too dependent on State law and real property and contracts law, and is too focused on regional issues and concerns to permit Federal preemption of the topic*. Recommended Federal guidelines may be valuable, wholesale federal preemption is not.

In California, private crossing design is generally specified between the railroad and the landowner in the crossing agreement. In cases *where a private crossing is used by the public or trains carrying hazardous material or passenger trains, existing guidelines for public crossings should be used*.

In other cases, *we recommend the FRA invite a group of experts to develop guidelines for the design of private crossings, similar to the highway-rail grade crossing technical working group that issued the guidance on traffic control devices at public highway rail grade crossings*.

Where crossings allow unfettered access of passage and routinely invite the general public to use the crossing, a public purpose has been established. In such cases, ***guidelines for crossing treatments should be the same as used for public crossing.***

***Public uses of crossings, which could be classified as private, include crossings at shopping centers and malls, which are generally private property, crossings to public facilities, such as landfills, recreational areas and other unrestricted public lands, private roads to residences, such as mobile home parks, residential subdivisions and private country clubs, and other businesses and commercial enterprises offering goods or services to the public, such as Christmas tree lots or nurseries.***

It is extremely difficult to police the usage of each private crossing. Consequently, the private property owner must be given the incentive to upgrade the warning devices at the crossing when the usage changes. Financial liability, in case of a collision, is one incentive for private property owners to provide proper warning devices at a crossing, but generally not a compelling one until after an incident occurred. ***Any guidelines on private crossings considered for adoption should address the changes in use over time and provide for re-evaluation.***

California ***does not believe a distinction should be made between a commercial and private crossing.*** California treats the crossing as a private crossing, but this may require greater protections to pedestrians or the motoring public, through the addition of improved safety warning devices similar to or identical to public crossings.

We believe that FRA has taken appropriate steps to solicit public comment on the matter to determine the scope of the relevant issues relating to private crossings. It would be ***premature to consider adoption of new legislature regarding private crossings*** until the comments of the interested parties are made and considered. Only then will an assessment of regulatory gaps be able to be fully reviewed and potential solutions considered.

In our opinion, ***all private crossings should be provided with the same level of warning devices as public ones based on the use and geometry of the crossing.*** The danger posed by a private and a public crossing on high speed passenger rails are basically similar, since passengers, as well as bicyclists, pedestrians and motorists are placed at risk. Likewise, freight trains carrying hazardous materials have similar potential for the dangerous release of those hazardous materials at both private and public crossings.

***California contends that existing protections, particularly under State law, are sufficient to protect the traveling public provided appropriate criteria for providing warning devices are used for both public and private crossings.*** The Commission recommends that the ***FRA assist in the formation of a technical working group to prepare general guidelines for identifying dangerous private crossings and recommend guidelines to be considered in upgrading or designing such crossings.***

**Steve Cates, Chief, Office of Rail Equipment and Track Construction, California  
Department of Transportation (CalTrans)**

In California, we have accidents at private crossings, *probably 40 or 50 of them a year*. And they cause delays, death, and damage to private property, and that's something that I would like to see addressed.

CalTrans provides inner city rail service. We *carry over four-and-a-half million passengers a year on three different routes*. Currently we own 88 rail cars and 17 locomotives. We have *a rail highway grade crossing improvement program* with many different funding sources. There is the Federal 1010, 1103 funds for crossing improvements and high speed rail corridors. We have the Federal section 130 funds that are provided through the U.S. Department of Transportation Federal Highway Administration (FHWA). Those are for improvements on public crossings. And we also have a program here in California, a Section 190 grade separation program. And by the way, our 130 and 190 programs are jointly administered with the CPUC. *These programs provide over \$35 million a year to improvement of safety at grade crossings. And we also contribute about \$ 60,000 a year to Operation Lifesaver.*

Here are some statistics about California. We have about *12,400 grade crossings; 4,500 of those or about 36 percent are private crossings*, the remainder (about 7,700) are public crossings. We have about 150 crashes at grade crossings every year in California. A hundred and thirty of those are public crossings, about *20 of those a year are at private crossings*. And of those 20, two to three involve a passenger train.

The State doesn't have a specific financial aid program to improve private crossings, although we do have a PUC in California which fortunately has regulatory authority over the private crossings. *We have used Federal 1010 and 1103 funding for high speed rail corridor to consolidate and close private crossings.*

The railroad and private crossing owner have shared the cost of most of these improvements and the costs were primarily to install, like concrete crossing panels. When CalTrans move forward and upgrade tracks, put in double tracks or triple tracks or whatever, we'll replace and upgrade the cross bucks and that sort of thing, at private crossings. But State funds have not been used to directly pay for these improvements. We structure our contracts and agreements so the funds don't go through the railroad and through the private crossing owner. *Most private crossings don't have train-activated warning devices and have poor crossing surfaces and approaches to the crossing.*

I believe that the FRA or some Federal agency should *take a leadership role in developing some standards or guidelines for crossing protection, consolidation, and clear, safe private crossings. We need to take a look at low cost warning devices*. The guidelines, I believe, should be similar to those that are put forth in the manual of uniform traffic control devices (MUCTD).

I think that the *Federal Railroad Administration should take a more pro-active approach to provide funding for improvements at private crossings*. And they, in fact,

have done so through the Section 1010 and 1103 program where we're allowed to use funds to make improvements to private crossings, particularly in the area of closure and consolidation. I would look forward to an increase in funding through that program, *with funds distributed on some type of formula basis* to provide a stable funding mechanism so we could go in and close, consolidate, and improve crossings in these high speed rail corridors, particularly private crossings, and we would reduce the risks that are associated with those crossings. I think that this *program should be restructured to include demonstration projects*. A reasonable working group or some other working group that would identify projects to *test the feasibility of new technologies*.

**(Question: Do you have some set guidelines or policies that you use in determining which private crossings would be subject for closure or grade separation? How do you make those decisions?)** It's been pretty much opportunistic. The railroads are knowledgeable as to who might be more readily interested in improving those crossings. So I think they're kind of the experts on private crossings on their tracks, but all of the work we've done, other than when we're going through an upgrading or putting in new tracks, it's just been purely kind of opportunistic.

The prepared statements and presentations led directly into the open discussion focused on crossing responsibility. The format of the discussion was based around a series of case studies and hypothetical scenarios that were moderated by Anya Carroll, Principal Investigator, Rail and Transit Systems Division, Volpe Center.

### Case Studies

**What rights are assigned to the holder of a long-established prescriptive easement? Does the developer/railroad have responsibilities toward the affected crossing holder? If so, what? Do State governments (outside the court systems) bear a responsibility for crossings created via prescriptive easements?**

The *State of California does not permit crossings by prescriptive rights*. California is addressing crossing issues through the environmental document process. This process does provide a *dispute resolution forum and procedure*. The *State of Washington does witness prescriptive easements* however the representative present was unaware of the legal issues surrounding them.

**Who bears responsibility for safety at the crossing, the developer, homeowners, or railroad? If a city or county chooses to convert it to a public crossing, who is responsible for reporting this to the State and railroad? Who will know, and when, regarding land development?**

There are public hearings held for zoning changes however prior experience is that *cities and towns do not consider the impact on the crossing*. California has been requesting additional funding and staff in an effort to get more involved in this process and meet with local planners to address rail safety. However, many stakeholders learn of crossing issues when there is an incident or a complaint. *Caltrans*: In California, it is illegal to widen crossings and not the roadway approaches resulting in bottlenecks. There is a strict timeline for response that the State must respond within and the environmental team

must evaluate and comment on impacts of crossings (new and upgrades). *Union Pacific (UP) Railroad: California is the only state that is addressing this issue.* Caltrans and the CPUC are extremely helpful to the railroad companies regarding applications for new crossings.

**If a private crossing is converted to a public crossing, who is notified?**

Both California and Washington State have similar, formal processes that must be followed. In California, the CPUC can approve an application without a hearing. Washington State uses the process to diagnose and evaluate crossings for elimination. *UP Railroad:* In most states, the railroad is not notified. If they were notified, it would be a good opportunity to promote rail safety at crossings in the general proximity.

**Is there a process for identifying the crossing holder? Can the crossing be closed by the railroad? Are there statutory or regulatory restrictions that govern this situation?**

The only current processes used for identifying the crossing holder is research and posting notification of closure at a crossing. *In California, there is a well defined regulatory process for posting a closure notice.*

**Hypothetical Scenarios**

**What if the US DOT establishes a requirement that every private crossing have a standard formal agreement. Crossings for which an agreement cannot be found or created will be closed.**

*The state of California requires a written agreement for private crossings.* This requirement would be expensive for the railroad companies. There is also a legal issue with existing deeds.

**Standard formal agreements could be customized. Who would maintain agreements?**

Any deed, or formal agreement should be filed in the county records office and a copy should be held by both parties in the agreement. *Caltrans:* There are issues (e.g. emergency service) with trying to close private crossings used by land locked property with no other access. Would land locked property be exempt? *Leave control to the States, not the Federal Government.*

**What if a new independent Federal agency (similar to the Surface Transportation Board) were created to oversee the resolution of private crossing disputes?**

*The State of California has a dispute resolution process in place.* Federal recommendations or guidelines would assist states that do not currently have a dispute resolution process however local interests will not want to deal with the Federal government. *CPUC:* CA has to threaten private owners with crossing closure to get private owners involvement. *Control needs to be left with the states, not the Federal government.*



**What if the US DOT provided guidance or standards on crossing design and warning device implementation at private crossings?**

*CPUC:* The Federal government should use the *same guidelines from public crossings for private crossings*. The minimum warning device requirement at a private crossing should be a stop sign and private crossing sign. This is the mandated minimum in California.

**Stop signs and private crossing signs are standard at most private crossings across the United States (default). How do we feel about stop vs. yield signs as the default?**

The National Committee on Uniform Traffic Control Devices (NCUTCD) is currently discussing this issue, the use of signage for private roadways with public use (e.g. shopping center). The MUTCD should be followed. *CPUC:* The MUTCD states the minimum requirements when federal funds are used on public roadways. *Encourage public roadway authority to take over private crossings with public usage.*

*Caltrans:* At private crossings this should be a railroad requirement because it will be on the railroad right-of-way. *AAR:* The cost effectiveness of any implementation needs to be investigated (resource expenditure vs. safety improvement).

**What if organizations such as American Association of State Highway and Transportation Officials (AASHTO), American Railway Engineering and Maintenance of Way Association (AREMA), and the NCUTCD were to include sections on private crossings in all existing guidance and standards documents?**

The meeting *participants agreed that the inclusion of additional guidance for private crossings safety in existing guidance and standards documents could be beneficial*. If a private crossing with public use is not identified and converted to a public crossing, it could potentially have increased safety risk if it were to be equipped with safety treatments based on private crossing guidance. *METROLINK:* More guidance the better, however increased funding is required. *CPUC:* Guidance should be based on *usage of the crossing and the frequency and speed of trains* that traverse the crossing. Specialty guidance could be used to establish *minimum guidelines for low volume/specialty crossings*.

**What if the railroads were to require all private crossing holders to obtain liability insurance?**

The railroads do not always have the legal right to require private crossing holders to obtain liability insurance. This right depends on the contract or agreement between the railroads and the private holders. *UP Railroad:* It is not easy to get these types of liability policies.

**What if a Federal Agency (FRA or other) established a process governing the creation, evaluation, and improvement of private crossings?**

*CPUC:* *This is the formula for preemption. Preemption is not the answer*. The Federal Transit Authority (FTA) has the *state safety oversight process*. If a state does not have a process, they must adopt the federal process. If a Federal agency (FRA or other) establishes a process, it is not going to improve safety at private crossings.

**What if the ultimate responsibility for safety at private crossings resided with State Agencies?**

California and Washington believe the *responsibility currently resides with State Agencies and should remain that way*. The North Carolina Department of Transportation's use of funding incentives (Section 1010 & 1103 HSR) to close private crossings during their Sealed Corridor Program was referenced for others to investigate. **UP Railroad:** There needs to be additional guidance and incentives for closure and improvements. *The Federal government's important role is in policy and consolidation and closure policy.*

**What if the ultimate responsibility for safety at private crossings resided with the railroads?**

The two railroad companies present UP Railroad and Norfolk Southern Corporation stated that railroads do not have the ability to control crossing usage and they have no regulatory authority at crossings.

**What if a private crossing were categorized based on traffic levels and type of use?**

General consensus was that *basing categorization on traffic levels and type of use is not a good idea*. It would be extremely difficult to develop a threshold and remain committed. What would this threshold be and how would you calculate it? Categorization would need to be tied to some goal. **UP Railroad:** Categorization based on traffic level and type of use would hinder crossing consolidation. UP Railroad would caution the FRA regarding the use of traffic levels for categorization.

**What data to collect to support analysis? How to collect it?**

Caltrans: There are *no resources to collect private crossing data*. California can not collect public crossing information and there are twice as many private crossings.

**How do we simplify the problem? E.g. Survey form for locomotive engineers, satellite data, or use Geographic Information Systems (GIS) to collect information.**

**CPUC:** *Consider new funding similar to Section 130 Funding for private crossing improvements*. There should be certain criteria to meet and address regarding private crossings. **Caltrans:** Global Positioning Systems (GPS) and aerial photography are limited. Interplant and industrial crossings would not get any info from GPS. Frequently those crossings are on private roads. **Volpe Center:** A recent study on the San Joaquin HSR Corridor looking at data gathering techniques will be released shortly by the FRA Office of Research & Development. That report provides information on data gathering techniques in California on the San Joaquin HSR corridor by Caltrans.

#

CC: file  
Grady Cothen  
Ron Ries  
Anya Carroll



U.S. Department  
Of Transportation

# Memorandum

**Research and  
Special Programs  
Administration**

John A. Volpe  
National Transportation Systems Center

**Subject: Safety at Private Crossings Public Meeting  
New Orleans, LA**

**Date:** December 26, 2006

**From:** Steven Peck and Anya A. Carroll

**Reply to  
Attn of:** RTV-3D

**To:** Miriam Kloeppe  
Federal Railroad Administration

The fourth of a series of public meetings on the safety at private highway-rail grade crossings in the United States was held on December 6, 2006 in the Chateau Sonesta New Orleans Hotel conference center, New Orleans, LA. Hosted by the US DOT's Federal Railroad Administration (FRA), Office of Safety, the public meetings are being conducted regionally in an effort to start a national discussion on the challenging issue of improving safety at the nation's largely unregulated private highway-rail grade crossings. This meeting was conducted with the focus on responsibilities for safety at private crossings.

Private crossings are owned by private property owners for their personal use, not the use of the public. There are over 94,000 private highway-rail grade crossings in the United States that provide access to a multitude of different types of properties including residential, agricultural, industrial, and commercial. Each type of private crossing can offer its own unique safety characteristics and concerns.

Representatives from Class I railroads, State Agencies (Departments of Transportation), Unions, Federal Agencies, Industry, and concerned citizens attended the public meeting to continue discussion on the safety at private crossings in an effort to assist the FRA in addressing this long standing issue.

The meeting began with formal introductions and welcoming speeches by Mr. Grady Cothen, Deputy Associate Administrator, Office of Safety, Federal Railroad Administration and Mr. Richard Savoie, P.E., Deputy Chief Engineer, Louisiana Department of Transportation and Development (LADOTD). Following Deputy Associate Administrator Cothen and Mr. Savoie, Ms. Miriam Kloeppe conducted a brief overview presentation on behalf of the FRA to provide a basis for the public meeting. Five prepared statements were then given by: the Louisiana Operation Lifesaver, the Rio Grande Pacific Corporation, Railroad Controls Limited, the Association of Trial Lawyers of America, and on behalf of himself, John Van Mol, Farmer. The statements lead directly into the open discussion. The ensuing open discussion was structured to address the issue of private crossing data elements through a description of currently available data, current uses for the data and hypothetical scenarios for additional desired data and usage.

Summary of the formal statements prior to the open meeting discussion:

**Richard Savoie, Chief Engineer, Louisiana Department of Transportation and Development (DOTD) spoke first.** In Louisiana, for public crossings we have a federal regulation that says: "*Public roads means any road under the jurisdiction of and maintained by public authority and open to public travel is declared as public via public authority vote, resolution, or some other legal means, and the local road authority has maintained the road on both sides of the crossing over the past three years.*" *Private crossings -- is a crossing where the property on both sides or at least one side of the railroad track is private property. Public authority responsibility: Advance warning signs and pavement markings shall be maintained in accordance with the MUTCD, the Manual of Uniform Traffic Control Devices, at public crossings. But there's no authority at private crossings.*

In Louisiana, as I mentioned, we have a total of 9,079 crossings. Of those, 3250 are public, 2787 are private, and since 1976, 866 were closed and 2,176 have been abandoned. *Of those 2787 private crossings, 1690 are to private farms. We have a lot of farm industry in Louisiana. Three hundred forty-three (343) are at a private residence, 26 are to private recreation, 678 to private industry, and 50 pedestrian.* We typically rank in the *top five of railroad-crossing crashes and fatalities nationwide.* But as of the first half of 2006, I'm pleased to announce that *Louisiana is now tenth in the nation.* It's not a good thing, but we're moving in the right direction. *Grade-crossing collisions are usually caused by motorist error...* the state troopers came to our defense and they said ninety-eight to ninety-nine percent is driver error. This pie chart is cut up: *Did not stop, 49%, Stopped on tracks, 26%, Drove around the gates, 12%, Stopped and didn't proceed 7%, and other, 6%.* So you can see from this it really tells a bleak story of what the drivers do when it comes to crossings.

Grade-crossing warning devices upgrades work, it cut the accident fatality rate by 93%. *Louisiana has a revised statute: 48:390.1 was modified to give Department of Transportation authority to close existing public crossings on non-state-maintained highways.* On the Department of Transportation closure criteria, greater than four crossings per mile in a rural area, less than 2,000 vehicles per day and less than two trains per day. When alternative routes are available, *(we should avoid) skewed angle crossings that present hazards, curved tracks and complex crossings, those with multiple tracks and long switching periods causing blocked crossings.* Those are the things we would like to attack.

When it comes to the 9,000 total crossings, the 1331 public crossings without warning devices, if we were to install signals at those locations, it would cost us between two hundred to four hundred million dollars. *At \$8 million a year, it would take us twenty-five to fifty years to address.* We are working with mayors and public entities to close some of these crossings. **Ms. Betsey Tramonte, Executive Director, Louisiana Operation Lifesaver spoke next.** We were asked to come here today to discuss what private crossings mean to Operation Lifesaver. Our national mission statement says: "*Operation Lifesaver is a nonprofit international continuing public education program, first established in 1972, to end collisions, deaths, and injuries at places where roadways cross train tracks and on railroad rights-of-way.*" *There's no distinction between a public roadway and a private roadway.* We have trained and certified speakers that provide free safety training for various professions and all age groups to increase

public safety around railroad tracks. In summary, looking at *public crossings versus private crossings, Operations Lifesaver's goal is to stop crashes at places where roadways cross train tracks*. Our organization educates the public on safety at all highway-rail grade crossings independent of the highway's owner.

**Mary Beth Meyer, Christovich & Kearney law firm spoke next.** We have been counsel to the New Orleans and Gulf Coast Railway Company, in particular Rio Grande Railway Corporation in New Orleans. And we're here today because in many ways *this railroad is sort of a poster child for the problems that railroads are facing with private crossing issues*.

What we have within New Orleans and Gulf Coast railroads is a small railroad company, *short-line railroad, small business, who is trying to deal with closing private crossings* and has had a very difficult time of it in -- on every front, basically.

When Rio Grande acquired this railroad in 1999, there were 276 at-grade crossings. How do we know there were that many? We created an inventory.... to define exactly what kind of crossings we had, and this map maps out each and every one of these. We have an *inventory list that defines exactly what kind of use all of these crossings are put to: Private, industrial, commercial, and multifamily residential. We have a very limited or no-access issue for a lot of the length of this line. Entergy faced difficulties with implementing a permitting program: very, very high resistance from local landowners into entering agreements or agreeing to consolidate crossings. We have worked out an agreement with the landowner-developer only to have the landowner turn around and go to the local government, in this case the parish, to have it declared a public crossing and then basically renege on all the agreements they had made about signage, controls, passive controls.*

The railroad serves a number of refinery customers in the parish and a large grain elevator near the terminus of a line and is an important contributor to the local economy and commerce in the area. *We're not finding a very welcoming environment from the local authorities in trying to implement some of the proposals that we've made about crossing consolidations.*

*So over the years we've had a problem of changing use and also a failure to properly police. We have very few crossing agreements in place. Most of those are with our commercial and industrial users,* and we have had very good cooperation for the most part in the industrial and commercial, the Kmart, the -- you know, large users.

We are currently *involved in litigation over this situation because of the strong resistance that we have gotten from local landowners.* We've filed a federal lawsuit that was recently, after being maintained for several years and at great expense, near the trial to be dismissed for lack of jurisdiction by the federal court. *There is the lack of federal standards and regulations addressing this in any way have really hampered the railroad's effort to deal with landowners.*

We also found it very difficult to establish jurisdiction based on other federal regulations created by the local laws which a lot of people have been relying on to get these crossings. And they say *they're entitled to them out of necessity because they're enclosed properties.*

One of the safety issues that we have faced and identified in this situation is ***a real conflict with the track maintenance and regulations and standards that are on the books. What we have is a nightmare in trying to do any kind of programmed maintenance. These crossings create drainage problems, they cause premature deterioration of the crossties, and really have a very substantial negative impact on the maintenance and the stability of the underlying roadbed.*** We need some help in a regulatory sense, because there are no standards to point to. There is no voice out there saying ***private crossings are safety hazards and they're disfavored***, and if you need a crossing, you, user, it is up to you to really show you have some sort of entitlement or right, some need, no alternative, and that you've exhausted all of your state property rights in order -- against your ancestors' entitled to get a passage across the tracks. We have found is ***the lack of regulation has not just been the neutral. It has really hurt us in trying to bring home the importance of limiting the number of crossings.***

And ***we obviously need some standards for how these are built and how they are protected, and we are looking for a uniform national approach*** we think is appropriate to drive home the importance of the safety aspects. We have handled this in a responsible way and have responded to the challenge to close crossings, but ***without the tools to do that, we are very severely limited.***

**Richard Bertel, Chairman and CEO of Rio Grande Pacific Corporation, Fort Worth, the parent company of the New Orleans and Gulf Coast railroad** spoke next. Rio Grande has four railroads. We operate in six states, and the NOGC is the smallest in terms of miles of the railroads that we operate. We are a very small business, operating in a heavily regulated environment that is very hostile, particularly in Louisiana. We have 276, or we had 276 (crossings) when we took over. We serve a Chevron refinery and a bulk terminal at Marrero. Some of the miles on our railroad exceed thirty crossings the mile. ***Over the last two years, we've spent about \$600,000 in legal expense, gone through discovery, gone to court without so much as getting a hearing, and we get turned back to the state courts, where the outcome is foregone as far as I can see. For a small railroad with this much traffic in hazardous material, we think that these scarce resources could have been applied more efficiently with the application of just a modicum of reason and common sense. We have had a high level of cooperation with the refineries, the large commercial entities, and the people that provide the jobs in the community (to close crossings).***

Some conclusions that I've tried to put together: ***It's imperative that we start to recognize that the railroads are in fact interstate highways of commerce.*** And that's confirmed by many years of ICC and SCC doctrine, which requires this. ***Railroads should have the right, if given the responsibility via safety mandate of the FRA, to control what goes on over, under, around, and through our railroad rights-of-way. No one should be able to build or alter the track structure without our consent and permission.***

But let me leave you with a hypothetical solution that may bear some discussion or it may not. ***So let's assume the following:*** There's 90,000 private crossings in the United States, \$150,000 a crossing you could actively protect them, that's about \$13 billion, we'll call it 15 billion, FRA allocates \$15 billion to the state DOTs purposes of adding active warning protection to all private crossings, the DOTs will have to determine the need based upon federal guidelines, the

railroads will build and maintain the crossings, users of the private crossings would pay the state DOTs an interest rental based on the investment.

What's the cost benefit - If the DOTs can close crossings, they get to keep the money, and the interest rental that the stakeholders pay to use the crossings would go into a fund for the maintenance of these private crossings in the future administered by the states.

It would take five years to do all this, to protect all these crossings, \$3 billion a year for five years one time, and you could take the money out of the RIF program.

- The federal government would get its desired objective of fewer crossing accidents
- The state DOTs would get massive new bureaucracies around the country
- The railroads would get crossing protection
- My insurance premiums hopefully would go down
- The person who actually uses the crossings would have to pay

***Finally, we appreciate the FRA declaring a safety emergency in Louisiana to stop the insanity of the state and local inaction on the subject of private crossings.***

**Rick Campbell, Railroad Controls, Limited spoke next.** Private crossings are an issue that we deal with, and I'm going to qualify that "we." I work for a firm called Railroad Controls Limited. But part of my duties, we're very active in support of standards and recommended practices within the railroad industry. And I'm involved with both AREMA, which is the American Railway Engineering and Maintenance of Way Association, and highway-rail grade crossings, and I'm also involved with a group called the National Committee on Uniform Traffic Control Devices, or NCUTCD.

NCUTCD is made up of slightly over 200 professionals that are involved with all elements of traffic-control devices, traffic and transportation engineering. Within the NCUTCD there are various subcommittees or technical committees, as they're referred to, one of which is the Railroad and Light Rail Transit Technical Committee, of which I serve as chair, being elected by my peers.

Within our technical committee we have responsibility to comment to FHWA on parts 8 and 10 of the NCUTCD. One of the things that we wrestle with within our technical committee is private highway-rail grade crossings. Private highway-rail grade crossings are a unique issue within NCUTCD because NCUTCD is a document that is actually set up to deal with public travel and addresses issues relative to that public travel.

***NCUTCD deals with roads that are open to travel. And "open to public travel" is a term that's not defined in the Code of Federal Regulations.*** There is an underlying effort on behalf of the national committee, who has convened a task force to deal with traffic-control devices on private property. Tom Hicks, Chair of that Task Force, says, "***Our goal has been to prevent stop signs.***" And I'm sure everybody in here has driven through some type of private facility where you find a green stop sign or a stop sign that may be square or round because it was part of an architectural enhancement. The goal of the Task Force is to ***set-up guidelines for traffic-control devices on private property.***

*The real issue has to deal with expectation of access: Does the public have the expectation of access to the crossing, to the intersection within a mall, to whatever the facility might be where there's some traffic-control-device requirement? And this issue of course extends beyond private crossings. It gets into that, the area that we find with malls and shopping centers and businesses or business parks where there's actually a large number, a significant number of vehicles, publicly operated vehicles that access that private property.*

*I would like to encourage FRA to give consideration maybe to the fact that there's a need for a third classification that we apply besides public and private. And I would like to suggest that FRA consider what we call semipublic. And semipublic would be an access way, and specifically narrowed to our hearing today, a highway-rail grade crossing that is owned by other than a public agency but to which the public expects free access. And examples of that could be of course shopping centers and various commercial establishments. It could be a large facility or crossing to access a single facility such as a fast-food restaurant or a convenience store. We generally find that these semipublic crossings could fall into categories such as industrial, commercial, recreational, or to access multifamily homes.*

So I would like to propose that we at least give consideration to the term "*semipublic*" as it might apply to highway-rail grade crossings and all types of traffic-control devices. *We would still retain the category as private crossings, but we would generally define that as crossings that there is no public expectation of free access.* And examples of those might be crossings that serve a single residence or a crossing that a landowner has for access from field to field or for access from a public roadway to a field or private access outside of a residence. Those are crossings that are generally assumed not to have just open access to the public, and in many cases they're fenced and locked; or in the case of a driveway to a residence, one that there's very limited access by the public, generally the landowners or residents of the residence and service providers, such as delivery trucks, commercial vehicle operators who could have training to be able to deal with access over these crossings and private facilities. Some thoughts that we've struggled with within the *Railroad and Light Rail Technical Committee involve if we do have a private or a semiprivate-type crossing, do we have a need for a specific traffic-control devices to deal with access over that crossing?*

Many states -- of course *California, through their Public Utilities Commission*, has taken a lead in development of a *sign to be used at private crossings which clearly denotes the crossing is private.* We also support the fact that *if the public has access, we believe in standardization*, which would then involve the use of traditional crossbuck and supporting advance warning signage.

I think that it would behoove FRA to be able to step in and try and assist with the problems that we've heard with private crossings and access to private facilities, but as I say, to take it to the step that we look at, *Does the public have some expectation of free access? We need a methodology to be able to apply standardized traffic-control devices and at the same time to go through a diagnostic process as is already spelled out in part 8 of the NCUTCD.* And as part of that, the *semipublic crossing would go through permitting-type process that we would like to see FRA have oversight over this.* And things that would be considered to be part of this permitting process would be to define the responsibility for access over the crossing: Who's



actually responsible for -- who is the jurisdiction responsible for the crossing? Ultimately that of course would carry over to responsibility for traffic-control devices at the crossing and of course for maintenance at the crossing. ***And as part of that agreement that if the responsible agency failed to fulfill its goal to install or maintain devices, surface access, vegetation, all the items that we could consider issues at crossings, that the crossing would automatically be closed, that there would be no recourse other than to have the crossing closed.*** And that alone would serve as an incentive to a commercial or an industrial-type facility to continue the maintenance and access-way improvements necessary to retain the crossing in an open and passable condition. ***I encourage you to move forward with regulation and to be able to have enough regulatory teeth to be able to give us some form of control where we can actually provide a level of enforcement to persons wishing to create a private or a semipublic crossing over a railroad.***

**Ben Saunders, Former Chair Trial Lawyers Railroad Law Section, American Trial Lawyers, ATLA spoke next.** We can talk about regulation, making the federal government bigger, having the politics that we have, having the courts do this and the courts do that. But what's the problem? The problem once again, you observed it, sir: ***The problem is that you have to have an inability for a human being who either works for a railroad or a human being who's driving a vehicle to interact.***

And where is the solution to this problem? It's been in Washington for years. National Transportation Safety Board for years has published and advocated what is called -- and once again I'm on the page with you -- ***positive train separation.*** All of y'all ought to do yourselves a favor and drive down Airline Highway on your way home and go by what's called the Cold Storage Facility, where the Kansas City Southern and IC -- I can't remember which railroad -- has a few telephone poles built up with a ***roadway that goes under it*** so that when a train is coming from New Orleans going to Baton Rouge, ***the trucks going to the cold storage can't -- cannot -- interact with the train.***

So how do we design it out? ***By not having the train operate in a fashion that it can interact with an eighteen-wheeler or a lowboy hang up, a chemical truck, and, going down, a mom and a pop who are having an argument in the car and they stop on top of the track and get whacked.*** You go to Italy and you don't cross the track. A bar doesn't just come down like this. The bar comes across, and you don't have a choice. You do not have the option of driving across the track. That's a solution. You can't drive around. You'd have to drive through the barrier. That's No. 1.

No. 2, do something cheap, like the cold storage, when they're going through Nebraska through the corn fields and you want to have a situation where the truck is going to some processing plant and ***you don't want that eighteen-wheeler to have any ability to interact with the train.*** And then obviously, if you look again at Metairie Road, you have to build in some instances, overpasses, but the engineering and the ***technologies are there.***

**John Van Mol, Private Citizen, spoke next.** I'm a farmer. I have a cotton gin interest in a grain elevator. This is one of the farms that I farm, and ***it's owned by four different landowners.*** The Union Pacific Railroad is identified right here, running through the middle of it. July the 7th of 2005, ***in an attempt to live up to the rules and regulations that the Federal Rail***

*Administration has set forth, they came through and posted all the private crossings along the breadth of this property that we're farming with the exception of this 427-860-D which at that time and for the last fifty years prior to that was always believed to be a public road. We offered to the railroad to exchange crossing for crossing. There was no negotiating with the railroad. The cotton gin ran out of cotton. I'm one of the principal people involved in the gin, so our cotton -- I'm a co-op, but I'm the last. And it cost me dearly, just kind of a haphazard way that the railroad has pursued this, in my mind. Now, this meeting is all about safety, and I am interested in safety. And I am trying to see things from the railroad's point of view, and **I understand that I have a crossing that is not a continuous crossing.** My men and machinery are not continuously crossing that railroad. **We use these crossings seasonally but when using them we're using them a lot.** We put a lot of emphasis on safety in our operation. And in talking to the railroad, they are very anxious to remove absolutely as many private crossings as they can. But I propose for my -- for the well-being of my farm, I think that it would be very easy if **this crossing were reestablished for me to gate it to where it's denied access during off-period times.** When we're not using it, we go for a month or two months or three months at a time. It's not abandoned. Basically it's used very infrequently. **Cable that crossing or gate that crossing some kind of way.** I'm willing to do that. **I'm willing personally to be responsible for who comes and goes across the crossings.***

## **DATA ELEMENTS**

Ms. Miriam Kloeppe, on behalf of the FRA presented background information regarding current data collection and usage by the FRA. Currently, most of the data available pertains to public crossings and is used in prioritizing safety treatments and funding allocation. In addition to this background information, Ms. Kloeppe described some of the data fields that have been suggested for collection from the NTSB and other sources. These data fields include sight distance, presence of curves on the roadway and track, angle of intersection, presence of nearby intersections, and latitudinal and longitudinal coordinates. This list was utilized to initiate conversation on data elements that members of the audience felt would be beneficial to collect.

***Railroad Controls Limited (RCL)** requested the typical **class of vehicle** using crossings be identified and included. In addition, RCL would like the **approach grade and sight distance identified.***

The ***LADOT*** would like a new classification system, possibly the ***semi-public and private depictions*** described by ***RCL***, utilized. However they do not feel it is feasible to collect private crossing data.

The ***Union Pacific Railroad (UPRR)*** feels it is difficult to collect data such as average annual daily traffic (***AADT***) for private crossings because of roadway conditions, e.g. traditional roadway counting devices could not be utilized on dirt roads

In addition to desired data, the FRA inquired as to methods for data collection, such as ***FRA Proxy*** options.

The ***UPRR*** suggested the use of ***statistical sampling*** as opposed to complete data collection.

The *Brotherhood of Railroad Signalmen (BRS)* mentioned that Class I railroads are currently collecting *latitudinal and longitudinal information* for all crossings and using *Geographic Information Systems (GIS) to map their railroads*. In addition, private crossings should be broken down into *categories*.

The *American Association of Railroads (AAR)* stated that the basis for any regulation or action taken by the FRA needs to be *increased safety*, this includes *data collection*. Also, most of the existing private crossing information is collected and submitted by the railroads, the FRA needs to seek *alternative ways of collecting data*. In addition, the FRA should improve the *existing crossing inventory forms to make them more user-friendly and create electronic inventory submission*.

The *LADOTD* is concerned about the *legal issues with submitting crossing information to the FRA crossing inventory*. Some information should remain private not public and there may be issues with the Department of Homeland Security. The focus should be on closing public crossings and consolidating private crossings.

The *City of Laredo* suggested using the *revenue generated by the fuel tax to fund data collection* and to require the railroad companies to supply the data.

*Railroad Controls Limited* reiterated their stance and usage of the *terms semi-public and private in reference to private crossing definition and categorization*. Semi-public refers to a private roadway that is open to public travel. Private refers to a private roadway that is not open to public travel.

## **HYPOTHETICAL SCENARIOS**

The open discussion continued with a series of hypothetical scenarios being proposed to the attendees by Ms. Anya A. Carroll, Principal Investigator, Volpe National Transportation Systems Center. These scenarios were utilized to initiate open dialog and discussion regarding data needs and collection methodologies.

### **What if the FRA in partnership with Federal Highway Administration (FHWA) developed a secure WEB site where States and railroads could login in to input data?**

The *AAR* would like to know why this has not been done; highway-rail crossing issues are not FRA issues alone, they should be viewed as a *One Department of Transportation system*. The *AAR* is committed to the current crossing inventory and feels that if the current inefficiencies are addressed that the process will improve.

The *LADOT* feels that this is a good idea however many of the railroad companies do not have the staff needed to collect and submit all of the data. The *LADOT* is also concerned about *how secure the supplied data will be and how the FRA will protect the data*. There is concern about legal action taken as a result of information being made public; they feel this

information should be used for engineering uses only. *This is the reason why the LADOT has not submitted information to the crossing inventory.*

The *BRS* feels that there is no motivation for States and railroads to collect and submit data. If data submission is not made mandatory, then it will remain a low priority.

The *City of Laredo* requested *clarification on data security, public availability, and access to data.*

**What if the State supplied information; Blocks 21-25 on the USDOT Crossing Inventory Forms was used in conjunction with a Geographical Information System (GIS) platform to locate and map private crossings?**

The *LADOTD* stated that it currently *does have some GIS information* however it is focused on State systems. There is concern with trespassing in order for the state to collect data regarding private crossings and the security of data once submitted.

The *Rio Grande and Pacific Railroad (RGPRR)* stated that *they currently have much of the data that the FRA is seeking* however it would be a large and expensive administrative job to submit this data. The RGPRR inquired as to FRA interaction with the Surface Transportation Board (STB) regarding these issues.

The *AAR* informed everyone that some *States hire contractors to collect crossing data*, one example is the State of Ohio. This is an option for States that have the funding but do not have the available staff.

**What if States were required to collect the data?**

The *LADOTD* does not feel this is good idea due to *trespassing concerns with private property.*

**What if Railroads were required to collect the data?**

The *UPRR* and *CSX Corporation (CSX)* feel it would be a *monumental burden* on the railroads and too great a responsibility to require the data collection regarding private crossings of them. What benefit to railroad would this bring?

The *AAR* is not positive that the railroads are capable of *collecting the data.*

**What if the Federal Government created a team to collect the data?**

*CSX* pointed out that there are currently huge discrepancies between the existing data that the Federal Government, State Governments, and railroads have.

The *AAR* mentioned that the railroads submit the data to the States and Federal Government and that the reason for the disconnect is the *current inventory process.*

The *UPRR* feels that if the *Federal Government was responsible for collecting the data that there would be uniformity because a single entity would be collecting data.*

**What if track geometry cars were utilized to automate data collection?**

The *UPRR* already has *precision information from their equipment for all roads.*

The *AAR* stated that some railroads *currently use automated data collection but the quantity and quality of data is limited.*

**What if in the course of responding to a mandate on private crossing agreements, the railroad is required to assign a crossing ID number and update the USDOT crossing inventory?**

The *AAR*: suggested that *FRA track inspectors be responsible for collecting data* when they are in the field conducting inspections. In addition, low cost (less than \$50,000) *non-fail safe alternative warning devices need to be investigated and developed for low volume crossings.*

The *BRS* feels that the *railroads possess the ability to collect the data* and are the holders of the data. The *FRA* needs to impose a restriction or deadline to force the railroads to prioritize data collection. The *FRA* does not have the resources, staff and funding, to collect the data. Regarding *low cost alternative warning devices, there are liability issues* with non-fail safe systems.

The *LADOTD* suggested the use or requirement of *permitting crossings with serious legal consequences for violations.* Louisiana needs Federal level jurisdiction because the local jurisdiction acts in favor of private landholders. *LADOTD also feel that engineering alone is not the solution* due to financial limitations and in many cases, there is more involved than just an engineering issue.

The *FRA* posed the following questions: Do we need a process? What is it? If issued, how to proceed? They followed this with a reference to the Minnesota Guidestar Low Cost Active Warning Demonstration in response to the *AAR*'s suggestion.

The *Association of Trial Lawyers of America (ATLA)* reiterated their statement that the *solution is in engineering - barrier gates and trestle bridges.*

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CC: file  
Grady Cothen  
Ron Ries  
Anya Carroll

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UNITED STATES DEPARTMENT OF TRANSPORTATION  
FEDERAL RAILROAD ADMINISTRATION

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HEARING OF  
SAFETY AT PRIVATE HIGHWAY RAIL GRADE CROSSINGS  
SAN FRANCISCO, CALIFORNIA  
OCTOBER 26, 2006

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UNITED STATES DEPARTMENT OF TRANSPORTATION  
FEDERAL RAILROAD ADMINISTRATION

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Hearing of: Safety at Private Highway-Rail Grade  
Crossings Public Meeting, taken on behalf of USDOT, at Philip  
Burton Federal Building and Courthouse, 450 Golden Gate  
Avenue, California/Nevada Room, San Francisco, California,  
94102, commencing at 9:30 a.m., Thursday, October 26, 2006,  
before KAREN BAUER, CSR No. 6291.

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8 GEORGE ELSMORE  
9 STATE OF CALIFORNIA PUBLIC UTILITIES COMMISSION

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1 MR. COTHEN: Good morning.  
2 Can you hear me.  
3 We're getting used to the sound system here.  
4 It appears that the mikes up here are live-wire floor  
5 mikes out there.  
6 Okay. We'll do a safety briefing first, which  
7 is, of course, our custom.  
8 LeeAnn, would you do our safety briefing,  
9 please?  
10 MS. DICKSON: Assistant safety crossing manager.  
11 Safety briefing: If anything happens, don't wait for an  
12 alarm foran earthquake. If an earthquake happens,  
13 you'll feel it. Don't worry about that. Go out this  
14 door, make an immediate left, follow the restroom signs.



15 You'll see the lunch cart. Make a right. You'll see a  
16 staircase. Go down the staircase, out the building, and  
17 wait in the street. That's probably the best place to  
18 be. Who knows CPR? Julie is our CPR person. There is a  
19 telephone out here.

20 Who's got cell phones? Everybody?

21 We're in the Nevada Room on the second floor at  
22 450 Golden Gate Avenue in San Francisco. Thank you.

23 Restrooms. Just pretend you're going out for  
24 an earthquake and stop at the door that says restrooms.

25 MR. COTHEN: Thanks, Lee Ann. It's always good to  
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1 get your first mistake out of the morning.

2 Appreciate that.

3 This is FRA's conference on Safety at Private  
4 Highway-Rail Grade Crossings. I see a lot of familiar  
5 faces in the room, and some new ones for us. But glad  
6 you're here.

7 It's our desire today to cover as much  
8 information as we can. As you know, we're on a bit of a  
9 road show here to try to capture issues, sentiment,  
10 questions, views from around the country on this subject.

11 My name is Grady Cothen. I'm Deputy Associate  
12 Administrator for safety standards.

13 And we're pleased to have with us today  
14 Clifford Eby, who is our Deputy Administrator,  
15 immediately to my right. FRA staff are working on this  
16 from Washington, and the field are led by Ron Ries. I'll  
17 ask Ron to introduce his staff members, and then we'll  
18 ask Anya Carroll to introduce her staff from the National  
19 Transportation System Center.

20 Ron?

21 MR. RIES: You've already met LeeAnn Dickson from  
22 Region 7, one of our great crossing safety team members,  
23 and Charlie Hagood is also here for us.

24 Good to see you.

25 Also from the headquarters staff, Miriam

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1 Kloeppel, who is ramrodding this effort.

2 We're glad to have everybody here and look  
3 forward to having some questions and good input to our  
4 discussion today.

5 MS. CARROLL: Good morning. My name is Anya  
6 Carroll. I'm principal investigator of Highway Railway  
7 Crossing Safety Research in support of FRA at the Volpe  
8 Center in Cambridge.

9 With me today I've got Steven Peck (phonetic),  
10 who is one of our mechanical engineers and Mirna Gustave,  
11 who is our conference coordinator for this event.

12 MR. GRADY: We also have as counsel for this  
13 proceeding Assistant Chief Counsel for Safety, Mark  
14 Tessler, and we'll hear from Mark in a few minutes.

15 I would like to start out by asking Cliff Eby  
16 to give us a charge and introduction to the subject  
17 matter.

18 MR. EBY: My name is Cliff Eby, last name spelled  
19 E-b-y.

20 Good morning. Welcome. And it's a pleasure  
21 being here before you on behalf of our new Secretary of  
22 Transportation, Mary Peters and Administrator Boardman  
23 (phonetic), we really appreciate your attendance here  
24 today and want to thank you all for coming to discuss  
25 something very important, the highway grade crossing  
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1 conference.

2 What I want to do, to get started, is first  
3 kind of give you some background on the issue, and then  
4 get into my message. So if you haven't gotten into that  
5 coffee, you have about five minutes for the caffeine to  
6 kick in so then you can really concentrate on the  
7 message.

8 According to the nation on grade crossing  
9 inventory, we have about 94,000 private crossings  
10 nationwide, each with its own unique history, uses, and  
11 local circumstances.

12 Over the course of the past decade, an average  
13 of more than 400 accidents per year have occurred at  
14 these private crossings, resulting in 30 to 40 deaths, on  
15 average, annually.

16 Take, for example, what happened in Castle  
17 Rock, Washington. On July 3rd, 2006, a southbound Amtrak  
18 train struck a passenger vehicle at a private crossing.  
19 The road leading to this crossing is a county road. The  
20 county maintenance ends shortly before the crossing, and  
21 the private roadway extends beyond. The crossing  
22 dead-ends after serving 11 residents.

23 According to the Amtrak engineer, the collision  
24 occurred when the motorist entered the crossing after a  
25 northbound freight train had cleared it. The train crew  
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1 and train passengers were not injured in the accident.  
2 All four occupants of the vehicle were killed.

3 In another instance, an Amtrak train struck an  
4 empty gravel truck at a Private Highway Rail Grade  
5 Crossing near Jackson, Mississippi. The private roadway  
6 at this crossing is used by an excavating company and by  
7 two residences.

8 In this incident, one train crew member and 15  
9 passengers sustained injury, and a truck driver was  
10 killed.

11 Let's step back for a moment and consider what  
12 happened at public crossings in the past. Records from  
13 as far back as 1917 show that, on average, more than 2000  
14 people died in accidents at Highway Rail Grade Crossings.  
15 Although crossings did occur, such as upgrades to active  
16 warnings devices, there was no uniform program on a  
17 national scale to help evaluate crossings and to  
18 determine which ones were most hazardous.

19 The arbitrator approach for selecting crossing  
20 improvement changed when Congress enacted The Highway  
21 Safety Act of 1973. It includes the funding for the  
22 national grade crossing inventory and provided funds for  
23 crossing improvements to any state that established a  
24 system for prioritizing its crossing improvement.

25 This funding program still exists today and is  
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1 known as the Section 130 Program.

2 Since the creation of the national inventory  
3 and the Section 130 Program, state's railroads and the  
4 U.S. D.O.T. have worked together to systematically  
5 improve safety at public grade crossings.

6 With further contributions from other programs,  
7 such as Operation Lifesaver and the additional regulatory  
8 changes such as the addition of locomotive crossing  
9 lights and rail car reflectorization, the number of  
10 fatalities have fallen from about 2000 per year to around  
11 300 to 400.

12 However, the nation-wide success with safety at  
13 public crossings has not been measured at private  
14 crossings. Where fatalities at the public crossing have  
15 declined by more than 30 percent in the last decade  
16 alone, the fatality count at private crossings has  
17 remained largely static. The realization that safety at  
18 private crossings could also be improved through  
19 establishing some nation-wide framework is not  
20 particularly new.

21 In fact, in 1993, the FRA hosted an open  
22 meeting to initiate industry-wide discussions on the  
23 subject. Following that meeting, the U.S. D.O.T. published  
24 the 1994 Highway Safety Action Plan, in which it proposed  
25 to develop national minimum standards for private

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1 crossings.

2 In 1997, the National Transportation Safety  
3 Board published a study on safety at passive Highway Rail  
4 Grade Crossings in which it recommended that the U.S.  
5 D.O.T. and the states, together, determine governing  
6 oversight responsibility for safety at private crossings.

7 In 1999, the NSTB, again, recommended that the  
8 U.S. D.O.T. eliminate any differences between public and  
9 private crossings with regard to funding, or with regard  
10 to requirements for safety improvements.

11 In 2004, the U.S. D.O.T. published an updated  
12 Action Plan in which the FRA committed to leading an  
13 effort to define responsibility for safety at private  
14 crossings.

15 Today's meeting is a vital part of that effort.  
16 Enough on the background. Let me give you my perspective  
17 on why Joe Boardman asked me to get involved with private  
18 grade crossings.

19 USA World Reader in providing a safety  
20 environment for its citizens, and recently, we've seen it  
21 elevate as a top priority at corporations, at government,  
22 Federal, State and local, and with parents and children.  
23 Ground transportation, in particular, has made tremendous  
24 strides in my lifetime. In the past 10 years, accident  
25 rates and death tolls have dropped dramatically. Safer

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1 cars have more than offset the increases in people and  
2 vehicles on our highways. Drunk driving awareness and  
3 enforcement has greatly reduced unnecessary injury to

4 millions. And better engineering to roads has made our  
5 road designs safer.

6 For the railroad industry, there has been a  
7 host of initiatives that have resulted in improvement to  
8 death and injury rates in all but two areas, trespassing  
9 and private grade crossings. And we're here to work on  
10 the latter.

11 Why is it we have cut the accident rate by  
12 almost half at public crossings over the last 10 years,  
13 but see no improvement at private crossings?

14 Why aren't we more effective at private  
15 crossings? Why does Operation Lifesaver seem to plug on  
16 public crossings, but not at private crossings? This is  
17 what we're here to learn.

18 But if I have learned one thing in my time in  
19 business, it is that nothing moves on its own. It takes  
20 ownership. And nobody really wants to own private grade  
21 crossing safety. Instead, each of us has chosen to erect  
22 barriers.

23 Railroads tell us they have no authority at  
24 private crossing, but their safety message tells a  
25 different story.

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1 Railroads say everybody owns safety, but  
2 apparently not at a private crossing.

3 Railroads say every accident is preventable,  
4 but not at a private crossing.

5 Railroads say safety is a way of life, but that  
6 life stopped at private crossings.

7 I'm not here to pick on railroads. In fact, if  
8 I had to pick on any group that has moved safety forward,  
9 it's the railroad's actions to put signage at private  
10 crossings.

11 I believe everybody here is equally to blame.  
12 FRA is responsible for enforcement of nationwide railroad  
13 safety standards, but nationwide stopped at public roads  
14 just short of private crossings. Again, not at private  
15 crossing.

16 We learned in Minnesota that the state has  
17 regulations and requirements for private crossings, but  
18 doesn't believe it has jurisdiction to enforce them. In  
19 Castle Rock, the city I talked about before where four  
20 residents were killed, it's a place where each generation  
21 passed along to their children a sense of safety.

22 As you learned just last week, a Walsh  
23 Construction truck and a backhoe were involved in a  
24 crossing incident. According to the Walsh's website, it  
25 places the highest premise on safety, but apparently one

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1 of its employees didn't at the crossing.

2 And, finally, to my friends in labor, they want  
3 to do away with private crossings and then think the  
4 Federal, State, and local governments should share in  
5 paying for a solution. They, too, want to pass the buck  
6 on ownership.

7 So we all have legitimate reason for  
8 eliminating these barriers. Until each of us is willing

9 to own the problem, like we have for other safety areas,  
10 we don't see any real improvement at private crossings.

11 Let me conclude by urging each of you to speak  
12 up, tell us your ideas, experiences, and viewpoints. The  
13 issues we will be discussing today are often complex, and  
14 we need your input in order to develop the best possible  
15 response to this problem.

16 MR. COTHEN: Thank you, Cliff. I think that's a  
17 charge.

18 It's particularly propitious that we're in  
19 California with this particular discussion. We decided  
20 after an initial session covering a broad range of issues  
21 that we would try to, in the second portion of our day,  
22 first portion of our day to focus our initial remarks for  
23 anyone who would like to make them, the second portion of  
24 our day to focus on topic areas.

25 So we've tried focussing on engineering. And  
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1 today we thought we would focus on what Cliff talked  
2 about just then, and that's responsibility of taking  
3 ownership of the issues.

4 As we go forward, we'll talk about data needs  
5 and then we'll try to bring it altogether. But it's  
6 particularly appropriate that we're in California to have  
7 this conversation because if you had to pick a state out  
8 of the 50 that's tried to take ownership of the problem,  
9 it's the State of California.

10 And the California Public Utilities Commission  
11 is the regulatory agency that deals with Highway Rail  
12 Grade Crossing issues in California. And so I'm  
13 particularly happy to be able to introduce our colleague  
14 of many years, Vahak Petrossian, of the California PUC.

15 Vahak, could you please give us a welcome and a  
16 charge, and if you would also introduce your colleagues.

17 You're here from the commission.

18 MR. PETROSSIAN: I'll be short, so I'll do it from  
19 here, if that's possible.

20 MS. CARROLL: If you want to use the microphone, you  
21 can turn it on.

22 MR. PETROSSIAN: Can't you hear me? I'm loud  
23 enough.

24 First of all, I would like to say Richard  
25 Clark, our Director of Consumer Safety Division would  
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1 have liked to have been here, himself, to welcome  
2 everyone. And unfortunately, he's out of town and was  
3 unable to be here.

4 I would like to introduce a couple of people  
5 that are with the Commission here.

6 Pat Berdge, our staff counsel, and George  
7 Elsmore, who manages our railroad operations safety  
8 branch. And we have other staff present, and a little  
9 later on we'll present the Commission's view.

10 I want to welcome the FRA. I want to thank the  
11 FRA for taking this on, and particularly for choosing  
12 California as one of the venues, and we ordered really  
13 nice weather for you. Just for that, because I know it's

14 real pretty cold back east.  
15 The folks at FRA have been pretty helpful. Ron  
16 Grady and Anya pick up the phone and give us whatever we  
17 need, and we really appreciate that.

18 Private crossing. It's a major issue. And  
19 unfortunately, the major problem is the private property  
20 owners who don't participate in these proceedings,  
21 because -- there are some of them. And they're the ones  
22 that I think that need to be heard, need to participate,  
23 and take responsibility for a lot of the private  
24 crossings at the railroad.

25 A lot of times the issue is that 50 years ago  
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1 the crossing was established. There was nothing there.  
2 Maybe one farmhouse. Over the years we continue with  
3 it. And we're taking on a role where we're looking at  
4 the environmental portion of it. And we think that the  
5 folks who give authority to that building, whether it's  
6 the city government, the local governments giving  
7 business licenses or something, they also have a  
8 responsibility to address railroad safety. So that's the  
9 issue.

10 We want to welcome you. We want to wish you  
11 the best. And hopefully, we'll look forward to your  
12 report. And hopefully, it will be helpful to all of us.

13 Thank you for coming to California.

14 MR. COTHEN: Thank you very much. We appreciate  
15 your courtesy and continuing support of all of our  
16 activities.

17 And the same to George, who is our colleague on  
18 the compliance program. We're glad you're here.

19 We also have with us, and we'll introduce in a  
20 little while, representatives of the California  
21 Department of Transportation.

22 We appreciate you being here.

23 And we'll hear from Steve, and his colleague,  
24 perhaps, in a little bit.

25 Steve, do you want to say anything?

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1 MR. CATES: I want to thank all of you for being  
2 here. I think this is an important event. We have an  
3 opportunity to talk about private crossings. I'm going  
4 to speak pretty much from a parochial viewpoint at being  
5 responsible for our passenger rail equipment and grade  
6 crossings.

7 We do wind up with accidents at private  
8 crossings, which probably 40 or 50 of them a year are  
9 here in California. And they cause delays, death, and  
10 damage to private property, and that's something that I  
11 would like to see addressed.

12 I'm glad to be here. Thank you.

13 MR. COTHEN: Thank you.

14 Can I ask Mark Tessler, who is counsel for the  
15 proceeding, to provide the officer's statement.

16 MR. TESSLER: Thank you.

17 As Grady said, I'll be the legal officer for  
18 today's meeting. The purpose of the meeting is to enable

19 the public to provide information to FRA about issues  
20 relating to the safety of Private Highway Rail Grade  
21 Crossings. We're here to listen to you and to provide an  
22 opportunity for you to state your views on the record for  
23 review and consideration.

24 In order to produce an equal opportunity to  
25 express your views, the following procedures will be used  
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1 for anyone who wishes to be permitted to make an oral  
2 statement.

3 Persons representing the same organization,  
4 here as a group, at the beginning of your statement,  
5 please identify yourself, spell your name and identify  
6 whether you are appearing as an individual or as a  
7 representative of the group.

8 It would also be helpful if you have a business  
9 card, to present it to the reporter today.

10 At the end of your statement, after, FRA  
11 representatives may ask questions in order to obtain  
12 clarifications of your points made during your statement.

13 We'll then move on to the next oral statement.  
14 If you refer to documents in your statement that have not  
15 yet been provided to FRA, please provide a copy of it to  
16 an FRA representative so it can be added to the public  
17 docket.

18 Today's meeting is being transcribed and will  
19 become a part of the public docket on this issue.

20 The transcript of the meeting and all documents  
21 related to this inquiry will be available for viewing and  
22 downloading at D.O.T.'s docket management website at  
23 <http://fra.dot.gov>. And please note, there is no www in  
24 that address. And the entire public docket will be  
25 available for viewing at the department's

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1 transportationdocket room, at 400 Seventh Street,  
2 Southwest Washington, D.C. Thank you.

3 MR. COTHEN: If anyone actually shows at the docket  
4 room, I'll buy you lunch. What we try to do at the  
5 beginning of each session, is most of us are new. And  
6 so, Miriam Kloepfel, who is an operation research analyst  
7 for the highway staff will give us a foundation in terms  
8 of further description of the problem area following  
9 Cliff's remarks. And then I'll ask you all to sign up,  
10 not literally sign up, but step forward and speak to the  
11 broad range of issues involving all of us.

12 MS. KLOEPPPEL: Good morning. My name is Miriam,  
13 K-l-o-e-p-p-e-l.

14 As Grady said, I'm going to kind of give a  
15 baseline so that we're all at least familiar with the  
16 same sort of information, and you can use it as a spring  
17 board for other conversations.

18 I thought I would start out with a slide that  
19 shows basically that -- it doesn't really matter what the  
20 geographic region is, a private crossing still  
21 constitutes a significant percentage of all at-grade  
22 crossings. The total count nationwide is about 94,000.

23 Although accidents at public crossings have

24 declined, as Cliff had noted, over the past 20 years, and  
25 is, in fact, declining by one-third over the past decade  
00023

1 alone, the number of accidents at private crossings has  
2 remained comparatively stable, a decline of 10 percent  
3 only in the past decade. In most years, the number of  
4 fatalities occurring in accidents at private crossings  
5 exceed the number of on- duty deaths among railroad  
6 employees in all rail operations.

7 The FRA maintains a national inventory of all  
8 crossings, public, private, or pedestrian, at grade or  
9 grade separated.

10 The data are used by many State, Federal, or  
11 private organizations for research, or for resource  
12 allocation.

13 It's updated by the States and by the railroads  
14 on a voluntary, not mandatory basis. As you can see,  
15 only about one third of the records for private crossings  
16 have been updated within the past five years, and a  
17 significant portion of the records have never been  
18 updated.

19 Analysis on data of this quality must  
20 necessarily be somewhat tentative. The data for public  
21 crossings are typically updated much more often than  
22 that.

23 This is not a slide that I expect anyone to  
24 actually read off of the screen. I put this up here for  
25 illustrative purposes. This is a shot of the form on  
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1 which crossing data are collected for the national  
2 inventory. Almost all the data elements are required for  
3 public crossings. For private crossings, however, only  
4 the sections I have shaded are collected.

5 As a result, even when the private crossing  
6 record is up-to-date, potentially useful data are not  
7 collected. This slide shows a small sample of the data  
8 collection differences.

9 As you can see, train counts, number of highway  
10 lanes, these are elements that we often use in analysis  
11 of the public crossings, and data like that, we just  
12 don't get from the private.

13 According to the FRA's 2002 compilation of  
14 state laws and regulations affecting highway rail grade  
15 crossings, the State's approaches to private crossing  
16 safety are highly varied.

17 Take, for example, these examples of the extent  
18 of control held over the creation or closure of private  
19 crossings.

20 Here are some examples of the degree to which  
21 traffic control devices are standardized at private  
22 crossings.

23 According to that same compilation, more than  
24 half of the States have no laws or regulations at all  
25 related to private crossings.

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1 The American Association of State Highway and  
2 Transportation Officials, or AASHTO, a standing committee



3 on rail transportation which people nickname SCORT which  
4 provides an arena whereby member states and the railroads  
5 can exchange technical information, review existing  
6 legislation and regulations, and propose changes or new  
7 legislation or regulations.

8           Currently SCORT has adopted a resolution, on  
9 railroad safety, improvement, and enforcement calling for  
10 research and development into improved and lower-cost  
11 technologies for warning systems.

12           The resolution also believes that any future  
13 comprehensive national transportation program must  
14 continue to provide funds for consolidating, separating,  
15 or otherwise protecting railroad highway grade crossings.

16           Neither the committee's policy, statements, nor  
17 its resolution make any overt distinction between public  
18 and private crossings, but it should be remembered that  
19 the majority of members represent states. And so their  
20 jurisdiction is unlikely to extend beyond that of the  
21 member states.

22           The Federal government, in the guise of various  
23 U.S.D.O.T. agencies, does offer some regulations or  
24 guidance, documents that may touch on safety at private  
25 crossings. As you can see in this sample, however, none  
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1 of these really covers a significant portion of the  
2 nation's private crossings.

3           In fact, there is no Federal regulation or  
4 guidance that promotes safety at private grade crossings  
5 by specifically or uniformly addressing the special  
6 issues presented at private crossings.

7           Some private crossings may be used only  
8 seasonally, like certain farm crossings used only for  
9 agriculture equipment movements, or they may be used only  
10 for routine personal use, like crossings that serve  
11 residences.

12           Other private crossings, such as this  
13 industrial access crossing, are used extensively for  
14 private business purposes by employees, contractors, and  
15 suppliers. In still other cases, they may be used very  
16 heavily by the public to enter commercial facilities.

17           I hope you can see it, but this slide also  
18 illustrates that in some cases, there is no alternative  
19 access provided to the private properties for the  
20 crossing holder.

21           The rights assigned to the private crossing  
22 holders vary greatly. A holder of the right or privilege  
23 to cross may hold outright ownership of the underlying  
24 property, may have a documented easement over the  
25 railroad property. Where it's recognized the holder may  
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1 have a prescriptive easement or squatter's rights. There  
2 may be a documented license under contract, or maybe only  
3 a verbal license subject to revocation without notice.

4           Railroads may require the crossing holders to  
5 purchase insurance or provide some other protection in  
6 the event of a collision at the crossing. Contracts or  
7 other legal documents may further define

8 responsibilities, such as maintenance of the crossing  
9 surface, or providing notifications under stated  
10 conditions.

11 The FRA solicits discussion and comments on all  
12 areas of safety at private crossings, but particularly  
13 encourages discussion on the following topics:

14 At-grade highway-rail crossings present an  
15 inherent risk to all users, including the railroad and  
16 its employees, as well as to other persons in the  
17 vicinity should a train derail into an occupied area or  
18 release hazardous materials.

19 From the standpoint of public policy, how do we  
20 determine whether creation or continuation of a private  
21 crossing is justified?

22 How do we determine when a private crossing has  
23 a public purpose, and is subject to public use?

24 How should improvement or maintenance  
25 responsibility be allocated?

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1 Is there a need for alternative dispute  
2 mechanisms to handle disputes between private crossing  
3 owners and railroads?

4 Should some crossings be categorized as  
5 commercial crossings, rather than as private crossings?

6 Should there be nationwide standards for  
7 warning devices at private crossings, or for intersection  
8 design for newly created private crossings?

9 Are there innovative traffic control devices  
10 that could improve safety at private crossings on major  
11 rail corridors, including those on which passenger  
12 service is provided?

13 Is the current assignment of responsibility for  
14 safety at private crossings effective?

15 Do risk management practices associated with  
16 insurance arrangements result in regulation of safety at  
17 private crossings?

18 Should the State and Federal governments  
19 cooperatively work to determine responsibility and to  
20 provide oversight?

21 Should the U.S. D.O.T. request enactment of  
22 legislation to address private crossings? If so, what  
23 should it include?

24 Now, there is some standardization of  
25 treatments at public crossings across the nation. For

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1 example, the confirmation and use of signs, signals,  
2 pavement markings, and any other traffic control devices  
3 placed at public crossings generally conform to the  
4 guidance provided in the Manual on uniform traffic  
5 control devices.

6 In addition, in 2002, the Department of  
7 Transportation published a guidance document created  
8 through the efforts of a technical working group made up  
9 of representatives from both the public and the private  
10 sectors.

11 In most states, however, there is no such  
12 standardization at private crossings.

13           The arrangement of private crossing signs can  
14 be highly individual. And sign maintenance may be  
15 sketchy, or almost non-existent.  
16           Yes, there is a sign there.  
17           To gather information on the current state of  
18 the art, as well as new ideas about possible solutions to  
19 existing problems, the FRA is holding a series of public  
20 meetings, the first of these was held in August 30 in  
21 Fort Snelling, Minnesota.  
22           This is not a complete list of organizations  
23 represented at the meeting in Fort Snelling, but rather  
24 those who provided either formal statements or  
25 substantial input during the meeting.

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1           Numerous topics were discussed in Fort  
2 Snelling, but to my mind, they fell into a few different  
3 categories. First, it seemed that attendees agreed there  
4 is no existing process that would provide consistent  
5 structures to create or to evaluate the relative need for  
6 new private crossings or to upgrade or close existing  
7 private crossings.

8           Attendees also seemed to indicate that  
9 different parties often used different definitions to  
10 decide whether a crossing was public or private.

11           In addition, much of the discussions centered  
12 on the fact that private crossings are created for a wide  
13 variety of reasons. For example, residential,  
14 industrial, commercial, institutional, or governmental or  
15 temporary. And they may be used to varying degrees by  
16 members of the general public, they may be traversed by  
17 users ranging from pedestrians to construction vehicles  
18 or hazardous materials tank trucks.

19           The second of the meetings was held in Raleigh,  
20 North Carolina. Again, this is a list of not of everyone  
21 who attended but of the people who actually provided  
22 statements or input.

23           We listened to the State of North Carolina  
24 discussing their private crossing safety initiative and  
25 the process they used and some of the criteria that they

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1 used to establish a need for upgrades and so forth.

2           Basically, the conversation centered on the  
3 need for a baseline set of traffic control devices. They  
4 thought that there were even more categories of private  
5 crossings than those that we had discussed before, and  
6 they made some suggestions about the appropriate types of  
7 design standards that would be acceptable to the states.

8           Well, let's move on. I would like to open the  
9 discussion now, but I'll leave this information up on the  
10 screen in case any of you would also like to provide  
11 written statements to the docket.

12           MR. COTHEN: Thank you, Miriam.

13           For the rest of the day we've got two pieces.  
14 The first is we would like to hear from those who would  
15 like to make some opening statements, some general  
16 statements. It's a small group, so we're not going to  
17 try to constrain the length. At least not at the outset.

18                   And then we will go to a discussion format in  
19 which we'll discuss some case studies and hypothetical  
20 scenarios as a way of trying to tease out the issues if  
21 we can.

22                   I'm happy to start with representatives from  
23 the State of California. First, Daren Gilbert from PUC.

24                   Did you want to say anything preparatory before  
25 Daren begins?

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1                   Daren is supervisor of the rail crossing  
2 engineering section, California Public Utilities.

3                   If you could spell your name for the record?

4                   MR. GILBERT: Sure. My name is Daren Gilbert,  
5 D-a-r-e-n, G-i-l-b-e-r-t.

6                   MR. COTHEN: Welcome to California.

7                   MR. GILBERT: Again, my name is Daren Gilbert. I'm  
8 supervisor of the rail crossings engineering section.

9                   I have prepared comments that will be  
10 supplemented by filed comments at a later time.

11                   The California Public Utilities Commission  
12 exercises rail safety oversight over railroads in  
13 California under the California Public Utilities Code and  
14 under the State Participation Program with the Federal  
15 Railroad Administration.

16                   The CPUC also has exclusive jurisdiction over  
17 highway rail crossings in the State.

18                   Specifically in regards to private crossings,  
19 the CPUC has the authority to determine the necessity for  
20 any private crossing and the place, manner, and  
21 conditions under which the crossing shall be constructed  
22 and maintained, and to fix and assess the costs and  
23 expenses of that crossing.

24                   Also, the Commission's General Order 75 (D),  
25 which contains administrative rules governing the

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1 standardization and use of warning devices at  
2 highway-rail crossings, and has an entire regulation  
3 directed at warning devices at private highway rail  
4 crossings.

5                   It requires a minimum of a stop and private  
6 crossing sign posted on each approach to the private  
7 highway rail crossing.

8                   General Order 75 (D) also requires a written  
9 agreement be developed to authorize the crossing between  
10 the parties.

11                   Private crossings carry most, if not all, of  
12 the safety concerns that public crossings have.

13                   Collisions can and do occur which cause delay,  
14 property damage, Hazmat spills, injury, and death. The  
15 parties involved in the establishment and use of private  
16 crossings must be cognizant of the potential incidents  
17 which could occur at such crossings and where appropriate  
18 government should exert safety authority to assure such  
19 risks are eliminated or minimized.

20                   The following are two recent examples of  
21 train-vehicle collisions at private crossings that  
22 affected public safety. CPUC staff addressed the safety

23 concerns for each crossing with the property owners, the  
24 railroads, and public authorities which result in  
25 crossing upgrades.

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1 And the first example occurred in April 2005.  
2 A fatal collision at a private crossing in a rural desert  
3 area resulted in two fatalities.

4 A similar incident had occurred at the same  
5 crossing in the year 2000. Investigation revealed that  
6 the passive crossing is utilized by various parties  
7 accessing a propane company, a planned energy generation  
8 facility, an electric substation, a water facility, and  
9 open space for recreation.

10 Passenger trains run through this area at 79  
11 miles per hour. Although there is clear visibility along  
12 the track in both directions, drivers have not always  
13 taken adequate precautions and often disregard the posted  
14 stop signs on approach to the track.

15 The crossing is an a narrow paved road between  
16 a main highway and private properties on the other side  
17 of the tracks.

18 CPUC staff took the position that the private  
19 nature of the crossing was no longer valid and that the  
20 CPUC staff would seek closure of the crossing unless the  
21 warning devices were upgraded to modern public crossing  
22 safety standards and, and further, that the local roadway  
23 agency needed to take authority for the crossing and ther  
24 maintenance costs associated with these improved safety  
25 warning devices.

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1 The property owner ultimately agreed and are  
2 financing the upgrades and the county has agreed to  
3 become the responsible agency for that particular  
4 crossing. So that was a positive outcome.

5 In the second example, a private unpaved road  
6 in Ventura County crosses the Union Pacific Railroad  
7 tracks. The private crossing provides access to a  
8 Christmas tree farm, as well as to three separate private  
9 residences.

10 During the winter holiday season about 100  
11 vehicles traverse the crossing daily.

12 Daily train traffic includes eight Union  
13 Pacific freight trains travelling at 60 miles per hour,  
14 10 Amtrak passenger trains, and four Metrolink commuter  
15 trains traveling up to 70 miles per hour. The crossing  
16 warning devices include STOP and private crossing signs.  
17 There have been a total of five reported collisions at  
18 this crossing since 1986.

19 The collisions resulted in 20 injuries and two  
20 fatalities.

21 The most recent incident occurred in August  
22 2005, involving a dump truck and an Amtrak passenger  
23 train.

24 The CPUC recommended upgrading the warning  
25 devices to flashing light signals and gates, advance

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1 warning signs, and providing illumination at the

2 crossing.

3           Ultimately, the Ventura County Transportation  
4 Commission has acquired special Federal funding and  
5 together with the UPRR, will upgrade the warning devices  
6 at the crossing to gates and flashing light signals.  
7 Maintenance costs will be borne by the railroad as  
8 specified in the crossing agreement negotiated with the  
9 Ventura County Transportation Commission. Although the  
10 crossing will remain a private crossing, automatic  
11 warning devices will be installed.

12           Overall, a private crossing is only justified  
13 if it provides sole access to a parcel of land that has  
14 no other viable alternative access available, which does  
15 not cross the tracks.

16           Private crossings have been thought of  
17 differently than public crossings because, in theory,  
18 only the private property owners and their invitees, and  
19 guests, and employees use the crossing, and should  
20 therefore be aware of the existence of the crossing and  
21 associated hazard.

22           This justified the opinion that there was no  
23 need for having warning signage or automatic warning  
24 devices, as are typically used at public crossings.

25           There is also the assumption that if a

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1 collision occurs at a private crossing, only the private  
2 property owner and the railroad may suffer the  
3 consequences of the crash, and therefore, these two  
4 interested parties are solely responsible for the safety  
5 of the private crossing.

6           However, many private crossings are on farms  
7 which use temporary workers who may not be aware of the  
8 presence of the crossing and its associated hazards.

9           Also, if trains that carry hazardous materials  
10 or passengers which are involved in the collision, then  
11 the surrounding community may be exposed to the hazardous  
12 material or the passengers on board the train may be  
13 injured or potentially killed. Therefore, train  
14 passengers and the general public, not only the property  
15 owner and the railroad, are exposed to the dangers of an  
16 accident at private crossings.

17           Also, unless the approaches to the private  
18 crossings are controlled, for example, by locked gates or  
19 at least posted as private property, the public, for  
20 example, a lost driver may be using it, therefore,  
21 individuals other than the invitee, guests, and employees  
22 of the property owner may use with or without permission  
23 many private crossings.

24           Furthermore, if a private crossing is publicly  
25 used, such as ones that provide access to a business,

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1 then the general public is exposed to the same level of  
2 hazard as with any other public crossing. Anytime there  
3 is a probability that the public may be exposed to harm  
4 by a private crossing, it becomes a public safety issue  
5 requiring diagnostic review and special consideration.

6           In such cases, state government oversight of

7 the crossing is appropriate.

8           Currently, the railroads and private crossing  
9 owners share the liability for the safety at private  
10 crossings, and the railroads -- to some extent, the  
11 property owners share an interest in minimizing their  
12 exposure to financial liability.

13           Because there are few controls at most private  
14 crossings assuring usage by only authorized parties, the  
15 use of the private crossings can change over time. We  
16 are not confident that such changes in use would be  
17 identified in a timely manner and addressed by the  
18 railroad or the landowner.

19           Railroads may not be aware of the changes in  
20 use. And landowners may not be aware of a need to  
21 re-evaluate the crossing and its warning devices based on  
22 that changed use.

23           We recommend some mechanism where the State or  
24 local government identifies increased or changed land use  
25 in landlocked parcels through permitting or project  
00039

1 approval to identify such changes in the dynamics in the  
2 crossing and its use.

3           With such a process, the appropriate State  
4 agency, the railroads and land owners could make informed  
5 decisions regarding the appropriate crossing treatment.

6           The best time to determine an increase in motor  
7 vehicle, bicycle, or pedestrian usage at railroad  
8 crossings is when the developer seeks approval of new  
9 commercial or residential projects.

10           For the past three years, the Public Utilities  
11 Commission has been reviewing proposed developments, and  
12 concerning potential impact on public safety under the  
13 California Environmental Quality Act.

14           This procedure permits the Commission to  
15 monitor proposed increases in traffic at crossings.

16           Under C.E.Q.A., which is the California  
17 Environmental Quality Act, the lead agency for the  
18 proposed development is required to respond to public  
19 comments concerning the project. There are, however,  
20 many instances where we are not aware of private  
21 crossings, and therefore, cannot make specific  
22 recommendations.

23           As to costs, generally, allocation of  
24 improvement and/or maintenance costs is agreed to by the  
25 landowner and railroad as parties entering into the legal  
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1 instrument establishing the private crossing. We believe  
2 this is appropriate. In California, where the landowner  
3 and railroad do not agree, the Commission may apportion  
4 such costs.

5           The CPUC allows for administrative legal review  
6 by public hearing in crossing matters. Administrative  
7 law judges hear crossing cases and prepare proposed  
8 decisions for consideration by the Commission.

9           In general, the Commission reviews the facts of  
10 the case and the proposed decision, and issues its own  
11 carefully reasoned decision.

12                   Moreover, the CPUC has its own alternative  
13 dispute resolution mechanism for these and other  
14 proceedings in which ARJ's specially trained in mediation  
15 procedures and outcomes are used to assist in resolving  
16 such matters.

17                   The issues involved with private crossings  
18 include property rights, contract law, and the safety  
19 responsibility for the traveling public. All of which  
20 have traditionally been within the State's  
21 responsibility.

22                   Many of the grants of rights-of-way in  
23 California were created in the 19th century at the time  
24 of the initial railroad line construction. Both the  
25 rights-of-way and the crossing agreements may be found in  
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1 deeds of trust, quit claim deeds, and other contractual  
2 arrangements between the railroads and landowners subject  
3 to the laws of the State of California.

4                   Therefore, we strongly recommend keeping the  
5 responsibility of the safety of private crossings with  
6 the States.

7                   The FRA may issue guidelines, for the benefit  
8 of States that do not have laws on this subject and  
9 provide recommended language for laws and regulations.  
10 However, the CPUC contends that public and private  
11 crossing safety regulation is too dependent on State law  
12 and real property and contracts law, and is too focused  
13 on regional issues and concerns to permit Federal  
14 preemptions of the field. Recommended Federal guidelines  
15 may be valuable, wholesale federal preemption is not.

16                   In California, each individual public crossing  
17 design is reviewed by a diagnostic team, comprised of  
18 experts, to recommend an appropriate design considering  
19 the unique nature of the individual highway rail  
20 crossings.

21                   Private crossing design is generally specified  
22 between the railroad and the landowner in the crossing  
23 agreement.

24                   In cases where a private crossing is used by  
25 the public or trains carrying hazardous material or  
00042

1 passenger trains, existing guidelines for public  
2 crossings should be used.

3                   In other cases, we recommend the FRA invite a  
4 group of experts to develop guidelines for the design of  
5 private crossings, similar to the highway rail crossing  
6 technical working group that issued the guidance on  
7 traffic control devices at highway rail crossings. Where  
8 crossings allow unfettered access of passage and  
9 routinely invite the general public to use the crossing,  
10 a public purpose has been established.

11                   In such cases, guidelines for crossing  
12 treatments should be the same as used for public  
13 crossing.

14                   Public uses of crossings, which could be  
15 classified as private, include crossings at shopping  
16 centers and malls, which are generally private property,



17 crossings to public facilities, such as landfills,  
18 recreational areas and other unrestricted public lands,  
19 private roads to residences, such as mobile home parks,  
20 residential subdivisions and private country clubs, and  
21 other businesses and commercial enterprises offering  
22 goods or services to the public, such as Christmas tree  
23 lots or nurseries.

24 As stated above, the potential hazard to the  
25 public at private crossings should be assumed to be the  
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1 same for those at public crossings, particularly where  
2 the public is invited to the property.

3 Additionally, many conditions and use of  
4 private crossings have changed markedly from those when  
5 the agreement was first executed.

6 As mentioned above, this changed use should be  
7 addressed through crossing upgrades or potentially,  
8 closure. However, it's very difficult to set a threshold  
9 for determining when a crossing is publicly used.

10 For example, can two private residences share a  
11 private crossing? Can 10? Where do you draw the line?

12 For example, a crossing may have been  
13 established 50 years ago when only a farmer and its  
14 employees used the crossing so that the document creating  
15 the private crossing may have been appropriate for the  
16 limited use expected 50 years ago. But if fifty years  
17 later, a local farmer's market is established on the  
18 property, the changed useage at the crossing may pose a  
19 hazard to the general motoring public. The terms of  
20 agreement between the railroad and property owner have  
21 changed and so must be re-evaluated.

22 It is extremely difficult to police the usage  
23 of each private crossing. Consequently, the private  
24 property owner must be given the incentive to upgrade the  
25 warning devices at the crossing when the useage changes.  
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1 Financial liability, in case of a collision, is  
2 one incentive for private property owners to provide  
3 proper warning devices at a crossing, but generally not a  
4 compelling one until after the incident occurred.

5 Any guidelines on private crossings considered  
6 for adoption should address the changes in use over time  
7 and provide for re-evaluation.

8 California does not believe a distinction  
9 should be made between a commercial and private crossing.  
10 California treats the crossing as a private crossing, but  
11 this may require greater protections to pedestrians or  
12 the motoring public, through the addition of improved  
13 safety warning devices similar to or identical to private  
14 crossings -- or to public crossings, rather.

15 Also, there are public used crossings that are  
16 not commercial in nature. For example, to an apartment  
17 building or mobile home park.

18 Private crossings, again, should be treated  
19 much like public ones. Private crossings are subjected  
20 to the same kind of diagnostic safety review and level of  
21 safety oversight as public crossings. Existing industry

22 and State safety standards and practices should be  
23 maintained. The same innovative traffic control devices  
24 considered for public crossings can often be used at  
25 private crossings.

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1 We believe that FRA has taken appropriate steps  
2 to solicit public comment on the matter to determine the  
3 scope of the relevant issues relating to private  
4 crossings. It would be premature to consider adoption of  
5 new legislature regarding private crossings until the  
6 comments of the interested parties are made and  
7 considered. Only then will an assessment of regulatory  
8 gaps be able to be fully reviewed and potential solutions  
9 considered.

10 In conclusion, the California Public Utilities  
11 Commission applauds the initiative taken by Federal  
12 Railroad Administration to reduce hazards associated with  
13 private crossings.

14 In our opinion, all private crossings should be  
15 provided with the same level of warning devices as public  
16 ones based on the use and geometry of the crossing.

17 The danger posed by a private and a public  
18 crossing on high speed passenger rails are basically  
19 similar, since passengers, as well as bicyclists,  
20 pedestrians and motorists are placed at risk.

21 Likewise, freight trains carrying hazardous  
22 materials have similar potential for the dangerous  
23 release of those hazardous materials at both private and  
24 public crossings.

25 California notes that all class one railroads

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1 and many short line railroads in the state transport  
2 hazardous materials over their rail lines.

3 California contends that existing protections,  
4 particularly under State law, are sufficient to protect  
5 the traveling public provided appropriate criteria for  
6 providing warning devices are used for both public and  
7 private crossings.

8 The Commission recommends that the FRA assist  
9 in the formation of a technical working group to prepare  
10 general guidelines for identifying dangerous private  
11 crossings and recommend guidelines to be considered in  
12 upgrading or designing such crossings.

13 Thanks very much.

14 MR. COTHEN: When we come back at a quarter to the  
15 hour, we'll offer the opportunity of colleagues on the  
16 FRA panel to address any follow-up questions to Daren,  
17 and then we'll proceed.

18 Thank you.

19 (Recess taken.)

20 MR. COTHEN: Back on the record, if we may.

21 You always know if you come to California,  
22 you're going to learn something.

23 When I was a resident at Central Valley, we  
24 used to say the Golden State, that California leads the  
25 nation. I guess you all still say that out here, don't

00047

1 you?

2 We're grateful to the PUC for beginning to give  
3 us something to really chew on from the point of view of  
4 the regulatory agency responsible here in the State. And  
5 we'll get to hear some more as we go forward.

6 We are also happy to have Steve Cates from the  
7 California Department of Transportation here.  
8 California, of course, is extremely proactive in  
9 fostering passenger rail, inner city and commuter rail.

10 Come on up, Steve, so we have the benefit of  
11 hearing from California D.O.T., from their perspective on  
12 the issue of private crossings.

13 Welcome, if you could, for the Court reporter,  
14 do the same for us here.

15 MR. CATES: Okay. Thank you. I'm Steve Cates, last  
16 name spelled C-a-t-e-s.

17 Probably take about 10 minutes to kind of go  
18 over my comments.

19 California Department of Transportation has a  
20 pretty aggressive passenger rail program. I want to talk  
21 about our rail program and what we do in regard to grade  
22 crossings. Our passenger rail program has a number of  
23 elements. We have a capital program, and an operations  
24 program, a grade crossing program, and a rolling stock  
25 program.

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1 In our capital program, we spend about a  
2 hundred fifty million dollars a year for improvement to  
3 the class one railroads to operate our passenger trains.  
4 Those would be for increasing capacities and for improving  
5 running times. The types of projects we would be  
6 involved with would be for track and signal improvements  
7 in those areas where we're going to be running our  
8 trains.

9 We have an operations program. We provide  
10 inner city rail service. We carry over four-and-a-half  
11 million passengers a year on three different routes.  
12 Those routes are the Pacific Surf Liner, the San Joaquin  
13 and the Capital Corridor. The Surf Liner operates from  
14 San Luis Obispo down to San Diego, on the coast on Union  
15 Pacific tracks. The San Joaquin route operates for the  
16 most part on PNSF, but it also operates on UP tracks.  
17 Bay Area and Sacramento are the origination points, so it  
18 kind of operates like a J., meets in Stockton and then  
19 goes down through Fresno and Bakersfield.

20 And we have the Capital Corridor which we  
21 started and which we have spun off, and it's operated by  
22 the Capital Corridor Joint Powers Authority that operates  
23 between Auburn through Sacramento and to San Jose.

24 We also have an inner city passenger rail  
25 rolling stock program. We acquire passenger cars and

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1 locomotives. Currently we own 88 rail cars and 17  
2 locomotives.

3 I kind of feel personally connected with 60 of  
4 those. I did the inspection testing here, and I have  
5 done that on about a dozen more of the cars, the

6 inspection taking place at the manufacturing plant in  
7 Hornell, New York. Whenever one these guys get whacked  
8 at a grade crossing, I feel kind of vulnerable about it.  
9 But we're also working on funding for some additional  
10 cars. We're going to try and purchase 7 new cars and  
11 about 10 more locomotives. Our service is expanding 10  
12 to 15 percent a year and we need those vehicles to take  
13 care of our standing room only crowds during peak  
14 service.

15 We also have a rail highway grade crossing  
16 improvement program. And we have different funding  
17 sources for this. There is the Federal 1010, 1103 funds  
18 for crossing improvements and high speed rail corridors.  
19 We have the Federal section 130 funds that are provided  
20 through the U.S. Department of Transportation.

21 So those are for improvement on public  
22 crossings.

23 And we also have a program here in California,  
24 a Section 190 grade separate program. And by the way,  
25 our 130 program and our 190 programs are jointly

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1 administered with the Public Utilities Commission.

2 These programs provide over \$35 million a year  
3 to improvement of safety at grade crossings. And we also  
4 contribute about 60,000 a year to Operation Lifesaver.

5 Here are some statistics about California. We  
6 have about 312,400 grade crossings; 4,500 of those or  
7 about 36 percent are private crossings. The remainder of  
8 about 7700 are public crossings.

9 We have about 150 crashes at grade crossings  
10 every year in California. A hundred and thirty of those  
11 are public crossings, about 20 of those a year are at  
12 private crossings.

13 And of those 20, two to three involve a  
14 passenger train. Typically, that would be a Metrolink  
15 train or one of the trains that we subsidize.

16 Now, to give you the real story of kind of how  
17 things work from my perspective, I have equipment staff,  
18 I have grade crossing staff. I am on the same floor as  
19 our budget staff and our Federal aide liaison. We're all  
20 on the same floor, and I'm across the street from the  
21 Governor's office, so I have got all these people looking  
22 at me.

23 When we get in an accident at a grade crossing,  
24 particularly at a private crossing, my equipment staff  
25 come to me and say what are you going to do to fix this

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1 crossing? We've gotten in three accidents in the last  
2 ten years and you're not doing anything to take care of  
3 that. Plus, we've got all of the corrugation taken off  
4 the side of my cars. And it's going to be two years  
5 before I get it back in service.

6 Then I have my grade crossing staff. You can't  
7 fix that. That's a gift of public funds. You can't use  
8 public funds. Those are highway funds. Those have to be  
9 spent on public crossings. The Governor is across the  
10 street. I'm on the third floor. So he's got to yell and

11 look up at me. You have to reduce your budget and cut  
12 your staff. So that's what I have to deal with in trying  
13 to improve grade crossings in California.

14 So what are the current practices? What do we  
15 do?

16 Well, the State doesn't have a specific  
17 financial aide program to improve private crossings,  
18 although we do have a Public Utilities Commission in  
19 California which fortunately has regulatory authority  
20 over the private crossings. We have used Federal  
21 Sections 1010 and 1103 high speed rail corridor funds to  
22 consolidate and close private crossings. And we've  
23 worked with and through the class one owner railroads to  
24 improve private crossing services during straight  
25 supported passenger rail track and signal projects.

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1 The railroad and private crossing owner have  
2 shared the cost of most of these improvements. And the  
3 costs were primarily to install lining, like concrete  
4 crossing panels. And when we go through and upgrade  
5 tracks, put in double tracks or triple tracks or  
6 whatever, we'll replace and upgrade, you know, the cross  
7 bucks and that sort of thing, at private crossings.

8 But State funds have not been used, what I  
9 call, to directly pay for these improvements. Because of  
10 all these people talking at me, we've got to be real  
11 sneaky when we go out there and make improvements at  
12 private crossings, so we structure our contracts and  
13 agreements so the funds don't go through the railroad and  
14 through the private crossing owner.

15 Now, I put out on the front, a hand-out of some  
16 of the things we've done with the 1103 money at private  
17 crossings. I have examples of other newsletters, and it  
18 has a picture right here of a grade separation project  
19 that we did. This was on a public crossing, but we've  
20 done two of these at private crossings where we've used  
21 standard railroad bridges. All of these have been on  
22 BNSF class one tracks. One has been in Merced at a  
23 private crossing. The other we're constructing now in  
24 Oakley, not too far from here. It's a private crossing  
25 where we undercut and build a roadway underneath the

00053

1 railroad tracks. Our costs to do that runs just a little  
2 over a million dollars, between one and a half million  
3 dollars through our negotiations with the railroad and  
4 the private landowner.

5 So the public investment has been pretty  
6 limited. If we go out and improve a grade crossing, if  
7 we put in automatic warning gates, all of the track  
8 signal circuitry to detect the trains approaching the  
9 grade crossing, put in median islands or some form of  
10 delineators, we're talking about three-quarters of a  
11 million dollars.

12 So the cost to us to construct these grade  
13 separations is not that much more than it would be to  
14 provide active warning devices at those crossings.

15 So, do I think that warning devices at private

16 crossings are adequate? No way. I don't think that  
17 private crossings, you know, have adequate warning  
18 devices.

19 Daren talked about an accident there that  
20 occurred with -- it was one of our trains hit a dump  
21 truck. It was out near Selmas. And I'll talk about that  
22 a little bit more in a minute.

23 Most private crossings don't have train-activated  
24 warning devices and have poor crossing surfaces and  
25 approaches to the crossing.

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1 So should there be a uniform approach to  
2 improving safety at private crossings? Yes. I believe  
3 that the FRA or some Federal agency should take a  
4 leadership role in developing some standards or  
5 guidelines for crossing protection, consolidation, and  
6 clear, safe private crossings.

7 We need to take a look at low cost warning  
8 devices. The guidelines, I believe, should be similar to  
9 those that are put forth in the manual of uniform traffic  
10 control devices.

11 And, again, Daren didn't think that those  
12 should have a regulatory effect. And I would agree, I  
13 think they should be guidelines. There seems to be too  
14 many variabilities at these public crossings, but at  
15 least some guidelines that would give us some direction  
16 on how to proceed, and less costly warning devices and  
17 train detection systems, other than those that are  
18 currently used at public crossings need to be considered  
19 as long as they provide adequate warning.

20 Now, should the Federal government provide  
21 financial assistance to improve the safety of private  
22 crossings? And I think that the Federal Railroad  
23 Administration should take a more pro-active approach to  
24 provide funding for improvements at private crossings.

25 And they, in fact, have done so through the

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1 Section 1010 and 1103 program where we're allowed to use  
2 funds to make improvements to private crossings,  
3 particularly in the area of closure and consolidation.

4 However, all of these funds for the last  
5 several years have been earmarked, and so this hasn't  
6 really operated too much as a grant program. I would  
7 look forward to an increase in funding through that  
8 program, with funds distributed on some type of formula  
9 basis to provide a stable funding mechanism so we could  
10 go in and close, consolidate, and improve crossings in  
11 these high speed rail corridors, particularly private  
12 crossings, and we would reduce the risks that are  
13 associated with those crossings.

14 And I think that this program should be  
15 restructured to include demonstration projected at maybe  
16 the working group. And a reasonable working group or  
17 some other working group that would identify projects to  
18 test the feasibility of new technologies.

19 So that's kind of what I wanted to present. I  
20 don't know if we have anybody here from Venture County.

21 I don't know, Freddy or Dave may talk about  
22 that a little bit. Since Daren brought up the accident  
23 at Selmas in Venture County, I wanted to explain a little  
24 bit about that particular crossing and what's being done  
25 there. Because this is something that the State of

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1 California hasn't been directly involved with, although  
2 we have been involved indirectly along with Union Pacific  
3 Railroad, the Public Utilities Commission and Operation  
4 Lifesaver and Metrolink, Amtrak, Highway Patrol have all  
5 been involved with the Ventura County Transportation  
6 Commission.

7 A few years ago Ventura County -- well, the  
8 Ventura County Transportation Commission undertook a  
9 review of all of the grade crossings on their main line  
10 track in Ventura County.

11 They identified, and they, also, in doing this --  
12 kind of backtrack here -- they took a look at all of the  
13 accidents that occurred at those crossings in the last 10  
14 years. Went out, conducted a survey of those crossings  
15 and identified improvements that they thought should make  
16 at those crossings.

17 There were 13 private railroad crossings on the  
18 main line track there that have had accidents in the last  
19 10 years. And, in fact, one of those was the crossing  
20 that Daren talked about.

21 Well, Ventura County Transportation Commission  
22 has gotten together with Operation Lifesaver, Union  
23 Pacific, Metrolink, Amtrak, the Highway Patrol and  
24 different farming interests in the Selmas area in working  
25 through Operation Lifesaver to educate the public on rail

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1 crossing safety issues, particularly at private  
2 crossings. And they're installing stop, look and listen  
3 signs both in English and in Spanish at these grade  
4 crossings.

5 They're also working with the Union Pacific  
6 Railroad to replace a bridge. This is a vehicular bridge  
7 that would allow workers to access different fields, and,  
8 as a result of this, they'll be able to close a couple of  
9 private crossings.

10 Last year, with the assistance of Representative  
11 Elton Gallegly, G-a-l-l-e-g-l-y, the Ventura County  
12 Transportation Commission was able to seek an earmark of  
13 \$494,000 in Federal assistance. Those earmarked funds  
14 will be running through my office. And those funds,  
15 since they were earmarked, are going to be used to  
16 install flashing gates -- flashing lights and automatic  
17 gates at two private crossings. And those are the two  
18 that had the highest accident rates. One of those is the  
19 crossing where one of my trains hit a dump truck.

20 The ironic thing about that that was a dump  
21 truck, it was a subcontractor on a CalTrans highway  
22 project, so my train hit my dump truck subcontractor.

23 But Ventura County, they don't own or control  
24 any of these tracks. But they've worked with the  
25 railroads and with others to improve safety, and I think

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1 they're to be commended.

2 That's something else that's being done here in  
3 California besides what we're doing with the Public  
4 Utilities Commission, with CalTrans, with the railroads,  
5 and then, also, with Metrolink. And I don't know if  
6 Metrolink is going to speak with -- are you going to be  
7 talking later or --

8 MR. MATHIEU: I could mention right now, the two  
9 crossings that we're talking about, Metrolink did.

10 MR. TESSLER: Excuse me, could you identify yourself  
11 for the reporter.

12 MR. MATHIEU: Okay. My name is Ron Mathieu, and I  
13 work for the Southern California Regional Rail Authority,  
14 which is Joint Powers Authority that runs the Metrolink  
15 commuter rail system. And I just wanted to just bring up  
16 a point that Steve, and, also, Daren mentioned about  
17 these two private crossings in Ventura County. They are  
18 on the Union Pacific main line, but Metrolink and some  
19 staff at Metrolink did work with the Ventura County  
20 Transportation Commission -- which is VCTC -- to secure  
21 funding.

22 We initially looked at five private crossings.  
23 But I think the money that was secured only covered two  
24 crossings. And that was the Hangel (phonetic) Tree Farm  
25 in Selmas Ranch private crossing, and I got an E-Mail

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1 here that -- I wanted to mention that the automatic  
2 warning devices are now active at those crossings. I  
3 just wanted to bring that up because both had mentioned  
4 that they were going to be installed, but they are  
5 installed.

6 MR. CATES: So I can go back to my equipment staff  
7 and say neener, neener, neener we got those installed.

8 MR. MATHIEU: They're going to be doing some press  
9 event and they've mentioned they were installed.

10 So I wanted to add that for the record.

11 MR. CATES: Okay. That concludes my comments. I do  
12 want to remind you, I have this little newsletter. This  
13 is probably from January of 2006, and it shows an example  
14 of the crossing that we did with the 1103 funds.

15 And then I've also included an executive  
16 summary for our California rail plan, and both of those  
17 are out on the table in front. So, thank you.

18 MR. COTHEN: Thanks, Mr. Cates.

19 Do we have any follow-up questions from the FRA  
20 panel, for either of our California folks?

21 MR. RIES: Appreciate the comments and the  
22 information you provided.

23 Do you have some set guidelines or policies  
24 that you use in determining which private crossings would  
25 be subject for closure or grade separation? How do you

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1 make those decisions?

2 MR. CATES: It's been pretty much opportunistic.  
3 We're going to be on track upgrade projects working with  
4 the railroad, for the most part, public projects



5 managers, both Union Pacific and BNSF Railroad are  
6 familiar with the private crossings. They're  
7 knowledgeable as to who might be more readily interested  
8 in improving those crossings. So I think they're kind of  
9 the experts on private crossings on their tracks, but all  
10 of the work we've done, other than when we're going  
11 through an upgrading or putting in new tracks, it's just  
12 been purely kind of opportunistic.

13 One of them was the 130 project that was  
14 recommended in Oakley. We started looking at the  
15 national highway system map, saw that it was a roadway,  
16 that it had been relinquished by the county years before  
17 and was under private ownership. A chain across it and  
18 private crossing signs on it for a number of years. We  
19 took a look at how could we make that improvement.

20 This is going to be opened up for public use,  
21 and again, this is a problem that we have in  
22 administering highway funds. But to be able to use the  
23 highway funds, it has to be a -- what they call public  
24 highway. And to meet that definition it has to be under  
25 the ownership, control, and maintenance of a highway  
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1 department authorized under statute to perform that  
2 function.

3 In this particular case, the acquisition of the  
4 properties on the far side of the track were being  
5 acquired by the Sanitation District, a parks district,  
6 and I think it was an irrigation or water district.

7 And school buses were going to be using this  
8 crossing in addition to sanitation trucks carrying  
9 hazardous waste. So we were quite concerned about the  
10 risks that were going to be posed at this particular  
11 crossing.

12 We operate at 79 miles an hour through there,  
13 and NSF operates at 65 miles an hour with the freight  
14 trains. And we got together with -- actually, it was the  
15 attorney from the sanitation district who negotiated with  
16 the sanitation district and the railroad to use some left  
17 over funds that we had had through the 1103 program. So  
18 it was just -- that's kind of how that one came about.

19 MR. RIES: I also had a question for Daren.

20 Certainly, I think there is a wealth of  
21 knowledge that since California has taken a very  
22 pro-active, you know, stance in working in private  
23 crossings, probably one of the few States that does that,  
24 how much staff time would you say is dedicated to private  
25 crossings?

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1 MR. GILBERT: Wow, that's tough to estimate.  
2 Different staff spent a different amount of time. I  
3 probably would venture a guess somewhere between five to  
4 10 percent.

5 MR. RIES: Okay. And that's out of how big of a  
6 staff would you say?

7 MR. GILBERT: Out of a staff of -- current staff of  
8 about a dozen field people.

9 MR. ELSMORE: I would like to add -- my named is

10 George Elsmore, E-l-s-m-o-r-e.

11 I have rail safety staff and we investigate  
12 every fatality at the private crossings where there is a  
13 vehicle or trespasser, so we have a pretty significant  
14 allocation of resources there, as well.

15 MR. TESSLER: Grady?

16 MR. COTHEN: Mr. Gilbert, I understand that when you  
17 said that the uses change at private crossings over the  
18 years, and subsequently, the PUC can order improvement to  
19 the crossing, such as automatic warning devices, and you  
20 mentioned that after you order it, there is a dispute  
21 resolution and different processes, but you ultimately  
22 can order those improvements installed?

23 MR. GILBERT: Yes, it's my understanding that we  
24 have the authority to order warning devices at private  
25 crossings.

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1 MR. TESSLER: Have there been challenges?

2 MR. BERDGE: Not at this point. Pat Berdge,  
3 B-e-r-d-g-e, star counsel for California PUC.

4 MR. TESSLER: When you do order those allocations of  
5 costs, could you give us an idea of how it is allocated,  
6 generally?

7 MR. BERDGE: It hasn't happened in a long time.  
8 Usually, the parties settle. And there is an agreement  
9 by the parties, between the railroad and the property  
10 owner to allocate the costs, maintenance, and  
11 construction of the crossing protections.

12 MR. TESSLER: But your testimony said that you  
13 allocate the costs. Do you provide --

14 MR. BERDGE: This is a code provision.

15 MR. TESSLER: Do you allocate and they can change  
16 it?

17 MR. BERDGE: They can change whatever they want. If  
18 they have an agreement, then the Commission is going to  
19 step back and let the agreement get filed, and that will  
20 be used in allocating the costs.

21 All we're saying, basically, is that the  
22 California Public Utilities Code provides that the  
23 Commission can allocate if there is a dispute between the  
24 parties. Ultimately, it's the California PUC's call.

25 MR. TESSLER: But you had mentioned it hasn't

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1 happened recently.

2 MR. BERDGE: That's correct.

3 Can I explain one thing? This is in the  
4 Patterson case, the one that Daren talked about. It did  
5 not go to the Commission. It was the staff that wrote to  
6 the private property owner and said that until Union  
7 Pacific will post a 30-day notice unless you will pay for  
8 upgrades. And the private property owner, along with the  
9 others, made that agreement. And so they are going to  
10 pay for the upgrades and then turn the road approaching  
11 the private crossing over to the county.

12 But that did not go to a Commission decision,  
13 but the Commission is the one that makes the ultimate  
14 decision if it needs to be, but an agreement was made at

15 that point.

16 MS. HARRIS: Yes, I'm Carol Harris. And I'm here on  
17 behalf of the AAR and, also, Union Pacific Railroad.

18 But actually, speaking from my experience here  
19 in California representing Union Pacific on these  
20 matters, and I would agree that the CPUC processes --  
21 well, the CPUC's processes do provide an impetus for  
22 reaching agreements which have been very useful, in  
23 particular, the ADR processes in some of the CPUC's  
24 cases.

25 But there was one other mechanism that I'm not  
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1 sure that Daren discussed, or maybe he didn't mention  
2 that we have used, and that is, also, I think an  
3 interesting tool that we have here in California, and  
4 that is -- I'm not going to be able to get the Code  
5 Section exactly right. I think it's 1202 something. But  
6 it's a section that provides that where the Commission  
7 determines that a private crossing is publicly used and  
8 no one is taking responsibility for it, the Commission  
9 can order it closed if the Public Roadway Authority  
10 refuses to take responsibility.

11 This is kind of a lost interpretation of the  
12 provision. But essentially, that is a mechanism for  
13 putting pressure on local roadway authorities to take  
14 responsibility for the crossing.

15 And in some of these publicly used private  
16 crossings, we actually think that's an important remedy  
17 because if it becomes a public crossing, then you have an  
18 entity that is responsible not only for the crossing,  
19 itself, but for the adjoining roadway, and the  
20 engineering of the roadway can often be an important  
21 factor in the safety of the crossing.

22 So that's, I think, a very helpful provision.  
23 We have invoked it. The railroad has. Because we had a  
24 case in San Luis Obispo where we sought to get a crossing  
25 closed that was publicly used. It was across from a  
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1 university campus, and we had widespread use with both  
2 pedestrians and automobiles. We had captive homeowners  
3 that were landlocked. We had a whole variety of uses.  
4 We had some school dorms that were not actually adjoining  
5 owners, but they had a -- they had developed an improved  
6 access to this private crossing for their residents.

7 And through the Commission's procedures, we  
8 brought all of the parties to the table, and that case  
9 ultimately settled with an agreement between the railroad  
10 and all of the private entities that were using the  
11 crossing. We did not have a public entity take over the  
12 roadway.

13 It was a complicated situation in which the  
14 university owned the roadway on one side, and the county  
15 owned it on -- the county's property began on the other  
16 side, but we had to ultimately handle it through a  
17 private crossing agreement. That was the only way that  
18 we could get that one resolved. But we were able to fund  
19 improvements to the crossing, and finally, most

20 importantly, have a mechanism for enforcing safety using  
21 the crossing, and we did manage to use Operation  
22 Lifesaver funds.

23 Even though it is a private crossing, Operation  
24 Lifesaver became actively involved, so there is  
25 precedence for use of those funds at private crossings.

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1 But I have to tell you, that it was a very  
2 expensive, complicated negotiation, very difficult to get  
3 anybody to come to the table if they're not already under  
4 the PUC's jurisdiction and reasonably threatened to  
5 eliminate the crossing. We were able to bring them in.  
6 So, that was our experience.

7 There is a couple of reasons. Sometimes there  
8 is actually another reason. I just want to mention why  
9 it can be helpful to ask the public roadway authorities  
10 to take responsibility for these publicly used private  
11 crossings. And that is because of the law enforcement.  
12 With a public crossing, there is nobody that is going to  
13 enforce safety, enforce safe driver behavior at a private  
14 crossing. And if a public roadway authority takes  
15 responsibility for the crossing, then you have some  
16 additional legal mechanisms that kick in. So that's been  
17 our experience there.

18 MR. COTHEN: Carol, we'll come back to you a little  
19 bit later to pick up any other items that you have.

20 Anya, did you want to follow-up with the sale  
21 rep?

22 MS. CARROLL: Good morning again. Thank you all for  
23 coming. I'm enjoying this conversation immensely. My  
24 interest is in the agreements.

25 My question would be to Daren. One: Is there  
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1 a form, a standard form that is started as a baseline,  
2 used as a baseline for these agreements?

3 Secondly: Who is the responsible party for  
4 holding the agreement as current? Who updates that  
5 agreement when necessary?

6 And thirdly: Just as a case in point, from our  
7 Raleigh, North Carolina meeting it was found that there  
8 were a very small number of formal agreements that could  
9 be found in North Carolina in their crossing safety  
10 initiative, the private crossing safety initiative, and  
11 the most were found within the railroads archives.

12 So, I have a whole series of questions about  
13 these agreements and where are -- where they're found,  
14 what the baseline is, and who's responsible for keeping  
15 them up-to-date.

16 MR. GILBERT: Well, I think that you'll find that  
17 other case is very similar to North Carolina. And  
18 probably, the appropriate parties to address that too is  
19 the railroads. There is no form.

20 We don't hold the agreements, and quite often  
21 when issues arise regarding private crossings, the  
22 railroad can't put their hands on an agreement or it  
23 can't locate it. It may exist, probably, in the archives  
24 that you spoke of. But in support, they're difficult to

25 come by and sometimes impossible to find.

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1 MR. Petrossian: If I could follow-up.

2 That's why this year we adopted General Order  
3 75 (D). In that -- I'm loud enough?

4 In that general order, it requires that there  
5 be a written agreement between the railroad and the  
6 private property owner. And, again, we used that in the  
7 Patterson case. We wrote to them saying, send us your  
8 agreement, and nobody did. And since there is no  
9 agreement, we are going to request that the railroad  
10 close the crossing. So now that we have that instrument,  
11 which became effective just last month, September 23rd,  
12 if I'm not mistaken, the Commission has another tool to  
13 use to make sure there is a written agreement between the  
14 private property owner and the railroad.

15 MS. CARROLL: So, within that framework, do you have  
16 a baseline form for the agreement that addresses certain  
17 pieces and parts, or it's just open, it could be a verbal  
18 agreement, or does it have to be a written agreement?

19 MR. PETROSSIAN: It says in the general order.

20 MR. BERDGE: Also, as we found out in our visit to  
21 the Volpe Center, most of these agreements are in deeds  
22 of the property through which the railroad runs its line.  
23 And there are a great number of easements in the valley,  
24 in the San Joaquin Valley that have easements, but no  
25 crossings, but could have crossings.

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1 The matter is also complicated by the fact that  
2 when UP purchased or merged with SP, those records are  
3 much harder -- those SP records are much harder to find  
4 now with the merger after the merger.

5 MR. COTHEN: Any further follow-up?

6 MR. MATHIEU: One more comment. Metrolink again.  
7 That's one of our concerns, also as a public agency that  
8 purchased right-of-ways from the freight railroads, we  
9 had to go over responsibilities for many public and  
10 private crossings, and finding agreements was a big issue  
11 for us.

12 And we found out that a lot of these  
13 agreements, you know, they're in deeds, or the agreements  
14 covered, you know, installation of crossing stop signs,  
15 those type of things.

16 And as we're dealing with these private  
17 crossing owners, the uses changed in trying to update  
18 agreements, or to get them responsible for the  
19 installation of automatic warning devices has been  
20 difficult. But what we've done is the member agencies  
21 that make up the Southern California Regional Rail  
22 Authority, they've developed their own agreements.

23 So we have what used to be a small two-page  
24 farm crossing or private crossing agreement, now is a  
25 little bigger agreement. So we do have a standard that

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1 they've developed.

2 MR. COTHEN: Then we ask that the Commission provide  
3 a copy of General Order 75 (D) for our docket so that we

4 can kind of look at the detail of that and understand.  
5 MR. PETROSSIAN: And the language I refer to is  
6 going to be in the formal statement, as well.  
7 MR. COTHEN: Good. Thank you. And that, also, that  
8 Metrolink provide an example with any details extracted  
9 that would be unnecessary for the public docket, but just  
10 see the format of the crossing agreement that you all are  
11 using, please. I appreciate it.  
12 MR. BERDGE: The General Order 75 (D) is online, and  
13 in our comments we give the HTTP URL address.  
14 MR. COTHEN: Then all the better. Thank you.  
15 MR. RIES: I just have a follow-up about the written  
16 agreements.  
17 Is it required that the agreements be filed  
18 with the Commission or they just have to make them  
19 available on demand?  
20 MR. PETROSSIAN: Yes, the second.  
21 MR. RIES: On demand.  
22 MR. COTHEN: You have more filing room than we do in  
23 our building.  
24 We'll pick back up with Carol, if she has  
25 anything else.

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1 I wanted to recognize Bob Boston, who is  
2 another one of our State representatives from the region.  
3 Bob is with the Washington Utilities and Transportation  
4 Commission, which is a part of FRA State participation.  
5 And we're among many of its associations, as well as a  
6 sponsor of rail passenger service along with the  
7 Washington D.O.T., and the regulatory body.  
8 So, Bob, could you just add anything that you  
9 think would be helpful from your standpoint?  
10 MR. BOSTON: Thank you, Grady.  
11 I'm a rail safety specialist with the Utilities  
12 and Transportation Commission, and also, the State  
13 coordinator for Washington Operation Lifesaver. Just a  
14 few short comments.  
15 Washington State is one of the States that does  
16 not regulate private crossings. They're basically just a  
17 contract between the railroads and the private crossing  
18 owners. And, as you know from earlier comments today, we  
19 had a terrible four-fatality collision at a private  
20 crossing a few months back. And we've also seen a spike  
21 in what we call second train incidents at crossings, some  
22 at private crossings. We've had a bunch at some public  
23 crossings, too, especially with pedestrians up near  
24 Seattle.

25 The Utilities and Transportation Commission has  
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1 a grant program called Grade Crossing Protection Funds or  
2 GCPF for short. People can put in for different types of  
3 safety improvements.  
4 Washington Operation Lifesaver has put in for  
5 some education grants under that. A couple of weeks ago,  
6 I noticed that in the GCPF form it talked about private  
7 crossings. Even though the Commission does not regulate  
8 them, it talked about private crossing improvements,

9 requesting funds for those. So since we have the second  
10 train incidents that have been occurring in Washington,  
11 Operation Lifesaver put in for some signage at private  
12 crossings where there are two tracks -- two or more  
13 tracks, and especially in the corridor between Vancouver,  
14 Washington and Bellingham. We estimate there is probably  
15 50 private crossings that have at least two tracks. Some  
16 of them may be just a passing track, but some of them are  
17 double main line, and we designed a sign at private  
18 crossings.

19 No, MUTCD, the Manual on Uniform Traffic  
20 Devices, no code on that. So we came up with a sign  
21 that's it's an 18-by-12 inch sign that says, "Two tracks.  
22 Watch for second train." And we hope to put these up at  
23 crossings. We're going to do some diagnostic at the  
24 crossings, and to check for other things, like sight  
25 distance and things like that. Even though there is no  
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1 regulatory jurisdiction or different entities, Washington  
2 Operation Lifesaver will be working together on that,  
3 hopefully, to get something done there and maybe reduce  
4 what's happening at the private crossings.

5 The Commission also is starting to show some  
6 interest at private crossings, and the information coming  
7 back from this meeting is going to be very, very helpful  
8 to take back on that.

9 Some other things we've done at private  
10 crossings, especially in the Columbia River, George,  
11 we've been working a lot with the migrant farm worker  
12 communities, doing a lot of Operation Lifesaver education  
13 to bilingual people. A lot of private crossings are in  
14 the fields where they work.

15 And there has been some incidents of where a  
16 train may be stopped on the track and then the workers  
17 are anxious to get on the feild, and they're crawling  
18 through the train, and there is possibly another train is  
19 coming on the second train track or the danger of the  
20 train moving. Of course, we put up some English/Spanish  
21 signs warning them of that and to see what we can do on  
22 that. And basically, those are a couple of things we've  
23 got going for private crossings.

24 I will give this to the panel to take back, and  
25 any recommendations you have on this, good idea, bad or  
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1 nay, we would welcome your comments on this.

2 Thank you.

3 MR. COTHEN: Thanks, Bob.

4 Any follow-up, Mr. Ries?

5 MR. RIES: Bob, in addition to the two-track sign,  
6 is there any other guidance for private crossing signage  
7 in Washington?

8 MR. BOSTON: No. There is not even any -- there is  
9 no guidance for any signs, that I know of. And, of  
10 course, private crossings don't have a two-track sign at  
11 all, like your public crossings, underneath the cross  
12 buck where it says the tracks. So we wanted to get  
13 something that was similar to a danger sign with the red

14 oval that will say "two tracks" in it. And then, of  
15 course, "watch for second train below it." But no  
16 guidelines, that I know of.

17 MR. RIES: Thank you.

18 MR. GILBERT: One question. I'm wondering, are you  
19 guys funding those signs, the installation and  
20 acquisition of those, or are you making them available?

21 MR. BOSTON: The funding would come from the  
22 Utilities and Transportation Commission, if they approve  
23 our grant. We estimated how many signs we would need,  
24 and then most of the signs probably would go below the  
25 stop sign. But in some cases, like what's up on the

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1 screen there, you can see three signs on the post. We  
2 might have to have an additional post with the other sign  
3 on it, but the Utilities and Transportation Commission  
4 would be funding it through their grade crossing  
5 protection fund grants.

6 MS. CARROLL: Bob, I have a question for you.

7 Your grade crossing protection funds that you  
8 mention, that's a State-funded program?

9 MR. BOSTON: Yes, it is.

10 MS. CARROLL: Is it set aside from a tax, a gas tax,  
11 highway tax?

12 MR. BOSTON: I'm really not sure where it derives  
13 out of. It used to be for grade crossing improvements  
14 only, and then I believe two years ago State legislature  
15 said it could be used for trespass problems, as well. So  
16 we have been through Operation Lifesaver. We have been  
17 submitting precedents.

18 MS. CARROLL: Is there information that documents  
19 that funding source?

20 MR. BOSTON: Yes, I'm sure there is. And I could  
21 make that available.

22 MS. CARROLL: I would like to see a copy of it.

23 MR. BOSTON: Okay.

24 MS. CARROLL: Thank you.

25 MR. COTHEN: Anything else for Mr. Boston?

00077

1 Okay. Thanks very much.

2 I guess I better look at the cell phone because  
3 the watch is on eastern time and that will be alarming.

4 Does anybody know the cafeteria?

5 Why don't we take our break at a quarter till.

6 I think we previously heard from Carol Harris.

7 Carol was a general commerce counsel for the Union  
8 Pacific Railroad, formerly known as Southern Pacific  
9 Transportation Company.

10 MS. HARRIS: Not exactly.

11 MR. COTHEN: Kind of slow burn there on that one.

12 And Carol is also representing the Association  
13 of American Railroads today.

14 Are there other things you wanted to bring to  
15 our attention, Carol, before we break for lunch?

16 MS. HARRIS: There were some questions about these  
17 agreements. Many of these agreements take the form of  
18 license agreements because in order to cross our



19 property, it is required that the adjoining property  
20 owners hold a property license right.

21           There are other situations, though, where they  
22 have deeded rights or where we are actually operating on  
23 their property. And even there, we are pushing for some  
24 kind of agreement so that we can monitor the use of the  
25 crossing.

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1           And so with the General Order 75 (D), we hope  
2 it will be helpful in that effort.

3           But in terms of a standard form, each of the  
4 railroads has developed terms and conditions for their  
5 railroad. It is often necessary to negotiate some of  
6 those terms and conditions, and that becomes a very  
7 complicated, very difficult process. I get involved in  
8 it. I'm not a contract lawyer. It's very painful to  
9 have to go through these long agreements and hash through  
10 everything.

11           And we often get people involved on the other  
12 side that are -- we can get a lot of legal resources  
13 poured into these negotiations on the other side. If  
14 it's a development that's at issue, and if enough money  
15 is involved in the project, you get a very, very  
16 complicated, very difficult negotiation. But to some  
17 extent, you do need some customization of the agreements  
18 in some cases.

19           So, it's a situation that is a difficult one,  
20 but we're doing our best to get good agreements in  
21 effect.

22           And we've also found most of our agreements, I  
23 would like to report, we occasionally have situations  
24 where we can't. But we don't just lose them. We have a  
25 good mechanism, and so we're administering and keeping

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1 them and keeping what's negotiated.

2           I think, finally, the other thing is someone  
3 mentioned that a lot of the progress tends to be  
4 opportunistic. And I think that is our experience. It  
5 is very difficult to get the attention of adjoining  
6 landowners who have no reason to communicate with the  
7 railroad and no interest in getting involved with  
8 anything that might be complicated or expensive. And so,  
9 it usually is when there are developments that are at  
10 issue and they're seeking to permit developments that we  
11 actually will be in contact with these folks, or when  
12 there is an incident, unfortunately, that often provides  
13 a catalyst for making changes.

14           The California Environmental Quality Act does  
15 provide another avenue for engaging with development  
16 interests because if we are alerted in time and become  
17 part of the environmental review process, we can often  
18 push for some improvements.

19           And then, finally, one other mechanism that  
20 we've found that is quite helpful is that we have tried  
21 to stress in Commission proceedings the FRA concept of  
22 taking the corridor approach to crossings. And so we  
23 have urged that the Commission also do this. So if

24 someone wants to open a new crossing -- and these are  
25 public roadway authorities that typically file the  
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1 application -- we have urged that they have to look at  
2 the adjoining crossings. In fact, all of the crossings  
3 under their jurisdiction, and demonstrate that they have  
4 made their best effort to rationalize them, and we've  
5 pushed this pretty strenuously.

6 And we've seen some situations where it's blown  
7 through, and where the Commission, itself, that has been  
8 willing to look at the situation and some additional  
9 crossings so that a community can't come in and build one  
10 new crossing that is totally up to the current standard  
11 while that crossing is in the middle of three or four  
12 crossings that are very substandard. We've managed to  
13 shed some light on those crossings that deal more with  
14 the public crossings than with the private, but sometimes  
15 we're able to bring the condition of the private  
16 crossings in, as well, put pressure on the roadway  
17 authority to either take responsibility for the crossing  
18 or help us get through with the property owners.

19 All of these things, though, are very  
20 time-consuming and often very difficult.

21 MR. COTHEN: If I could add something for a moment.  
22 Then Mr. Schwartz is from -- he's one of our camp  
23 followers. Probably the last of the meetings that he'll  
24 be allowed to attend.

25 MR. SCHWARTZ: Stewart Schwartz, with Norfolk  
00081

1 Southern Corporation.

2 With regards to the types of agreements that  
3 exist, it probably bears repeating, at least in our case,  
4 there are portions of our railroads that are now 175  
5 years old.

6 And the railroads that exist today is literally  
7 the product of the mergers of hundreds, and multiple  
8 hundreds of predecessor railroads. So to the extent that  
9 agreements exist, there is little to no uniformity at  
10 all.

11 Going forward for those limited number of  
12 circumstances where we may be able to renegotiate  
13 existing agreements or execute new agreements, we would  
14 attempt to have some uniformity in the form that we use.

15 As Carol pointed out, there is usually some  
16 necessity for customization to meet the unique  
17 circumstances. But, in our case, we have 10,000 private  
18 crossings, and I can't say with any certainty how many of  
19 those are actually covered by an agreement or deed or  
20 easement or any other writing. But I could state with  
21 some fair level of confidence that there is little to no  
22 uniformity in those agreements at all. And probably, in  
23 most cases, little ability to force a renegotiation under  
24 ordinary circumstances.

25 MR. COTHEN: So, it raises a really interesting  
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1 question about how you proceed on a national basis in  
2 terms of some kind of guidelines for moving the process

3 forward. Where do you start with the individual crossing  
4 at the corridor? Do you start with the premise that we  
5 would need to document first and improve first?  
6 Fascinating complex of issues.

7 What we'll do at this point is take a one-hour  
8 lunch break. Cafeteria is to your left.

9 I don't know, Mirna, are we going to be able to  
10 secure the room, do we know? The room will be secured.

11 When we come back, if you would like to make  
12 some further general statement from your point of view  
13 that you have not been able to make at this point, could  
14 you identify yourself to the chair and we'll arrange for  
15 that before we enter the general topical discussion.

16 Thank you very much. And we'll be in recess  
17 until a quarter to 1:00.

18 (Recess.)

19 AFTERNOON SESSION

20 MR. COTHEN: We'll go back on the record.

21 Ron, do you want to give us the arrangements  
22 for our next meeting, then we'll ask him to tell us about  
23 the Transportation Research Board.

24 MR. RIES: Our next public meeting on private safety  
25 will be in New Orleans on December 6th at 800 Iberville  
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1 Street in New Orleans. It will be the last one for this  
2 year, and we're looking at a potential fifth one later on  
3 the first part of next year in the New York area. That's  
4 still tentative, but we're aiming in that direction.

5 MR. COTHEN: Then, in the interim, between the New  
6 Orleans session and the final meeting, probably in  
7 February, we do have Transportation Research Board  
8 activities. Anya Carroll is the chair of the committee  
9 that deals with highway and real crossing issues.

10 Anya?

11 MS. CARROLL: Yes, the Transportation Research  
12 Board's 86th annual meeting will be held January 21st  
13 through the 25th in the Woodley Park area, the three  
14 hotels up there.

15 The Grade Crossing Committee, which I chair,  
16 has two paper sessions and also a panel session  
17 scheduled. We don't have specific times just yet, but  
18 the panel session is in support of this effort. It's on  
19 the safety of private crossings. So that will be  
20 sometime during January 21st through the 25th in  
21 Washington, D.C.

22 MR. COTHEN: So watch the site for additional detail  
23 there.

24 Okay. Mr. Burcat, are you available now?

25 MR. BURCAT: I'm available. I have a couple images  
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1 I think would be helpful that I can put up there and make  
2 my comments from there, as well.

3 MR. COTHEN: Come on up, and as before, if you'll  
4 identify yourself for the record, please, when you get to  
5 the podium.

6 MR. BURCAT: Good afternoon. My name is Peter  
7 Burcat. I'm an attorney from the Bay Area. I'm also

8 chair of the railroad section of the Association of Trial  
9 Lawyers of America, so I'm making some comments based  
10 upon my affiliation with the Trial Lawyers of America,  
11 and also as a practicing attorney that handles cases  
12 involving the railroads. In particular, involvement with  
13 private railroad crossing cases.

14 Certain comments were made today that we  
15 certainly agree with, in particular, Mr. Gilbert's  
16 comments regarding responsibility, whether it should go  
17 to Federal government FRA or remain with the States, and  
18 we agree that it should remain with the States.

19 The States can certainly, as Mr. Gilbert said,  
20 take care of the responsibility of the particular  
21 crossings. And in particular, the reason we think that  
22 that's important is because you can't just take the 50  
23 States and group them together and say we're going to  
24 treat all of these States as the same, because each State  
25 is different, especially in topography. So if we look at  
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1 crossings in one State, they're totally different than  
2 crossings in another State.

3 For example, the plain States are very wide  
4 open. Lots of visibility, very little things blocking  
5 the crossings, in most cases.

6 You go out to places like Colorado, we got  
7 mountainous States where we have mountainous crossings.  
8 If you go down South, we've got a lot of vegetation  
9 issues in crossings down there. We feel it's very  
10 important that the responsibilities remain with the  
11 States.

12 Moving responsibility to the FRA also raises  
13 the issue of invoking preemptions, and we know we've got  
14 that issue with public crossings. Preemptions has not  
15 worked to upgrade dangerous crossings. And to now invoke  
16 preemptions as a possible remedy and a possible way to  
17 avoid updating these crossings is not going to work. And  
18 all it's going to do is further immunize responsible  
19 parties, and that's not helping.

20 And the obligation here and the responsibility  
21 here, and I think everybody agrees what we want is to  
22 protect the public. And the public includes people that  
23 are going to use the crossing. It's going to include  
24 railroad employees on the trains and it's going to  
25 include passengers on the trains. And we've heard that  
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1 that's a consideration and concern of who is going to use  
2 this crossing, not just motorists and pedestrians, just  
3 public that's crossing it. But it's also who is on that  
4 train. If the train were to derail, who might become  
5 injured.

6 And that's our concern. What is the true  
7 agenda? And the agenda needs to be safety. And how are  
8 we going to get that safety issue handled in the best  
9 way?

10 And again, we'll say it again, that we think  
11 that agreeing with Mr. Gilbert, that is with the  
12 individual States.

13 Here in Northern California, for those that are  
14 from out-of-State, we have a passenger rail service from  
15 San Francisco down to Gilroy, California. CalTrans  
16 basically operates trains under agreement with Amtrak on  
17 UP tracks or CalTrain tracks.

18 CalTrains has adopted a crossing safety  
19 analysis system, system safety analysis system. It's  
20 working. They're looking at crossings, and CalTrains is  
21 basically taking out all of the private crossings under  
22 the rails that they are under control of, which would be  
23 San Francisco to San Jose. San Jose down to Gilroy,  
24 unfortunately, doesn't fall under the purview of the  
25 CalTrains system, and there is no system safety analysis.

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1 I am not personally familiar with the FRA  
2 having developed a similar system safety analysis, which  
3 I think needs to be done.

4 I'm also concerned that the FRA has taken under  
5 its wing public crossings. And with all due respect,  
6 there are still many, many dangerous public crossings out  
7 there, and they're not being handled the way they should  
8 be handled.

9 FRA taking on now private crossings, in  
10 addition to the public crossings is going to overload a  
11 system that's already not working the way it should work  
12 completely. Therefore, once we've got the public  
13 crossings adequately taken care of and we don't have any  
14 more dangerous public crossings, then we can look at  
15 expanding. But we're not at that point right now.

16 As I said, public crossings have guidelines and  
17 regulations regarding warning devices that are to be  
18 used, the condition of the crossings, things that are  
19 very important and very good for public safety. We don't  
20 have that with private crossings, and we, therefore, have  
21 private crossings that look like this.

22 This is a private crossing here in the Bay  
23 Area, UP tracks, UP freight trains. I don't know what  
24 the count is that use these tracks. We also had Amtrak  
25 trains. The rate of speed on these particular tracks is

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1 79 miles an hour. That is not a safety crossing, that's  
2 something that needs to be taken care of, crossings like  
3 this.

4 And the warning devices at this same crossing,  
5 this is the only warning device at the crossing. Defaced  
6 signs are not being maintained. So the question comes  
7 down to whose responsibility is it. Whose responsibility  
8 is it to take care of that crossing? Whose  
9 responsibility is it to take care of this crossing to  
10 allow something like that to exist and endanger not only  
11 the people that are going to drive across that, and that  
12 is a business in that particular property. They would  
13 sell tire, wood, and repair automobiles. There is a  
14 number of people who would cross that crossing, but  
15 regardless, even if we were not to consider the people  
16 that cross the crossing, we have to worry about the  
17 Amtrak trains with the hundreds of people on board. We

18 have to worry about the freight trains with HAZMATS  
19 coming over that crossing, and with the employees on  
20 those trains and the people that live in this area.  
21 There is a town of probably about 15,000 people. That's  
22 our concern.

23 We want to find what's the best way we're going  
24 to take care of crossings like this. And again, we'll  
25 agree with the position of Mr. Gilbert, that we should  
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1 leave that with the States right now.

2 And, Mr. Gilbert, this needs to be addressed  
3 here in California, crossings like this. There have been  
4 collisions at this crossing, including at least one  
5 fatality, that I'm aware of, and other collisions  
6 involving injuries.

7 Thank you.

8 MR. COTHEN: Thank you, sir.

9 Any questions from the panel with this  
10 presenter?

11 Hearing none, okay.

12 Ron Mathieu from Metrolink is back with us.

13 Ron, you want to make some additional remarks?

14 MR. MATHIEU: The Southern California Regional  
15 Authority.

16 We inherited a lot of private crossings from  
17 freight railroad. We have all kinds of issues from port  
18 crossings that we've worked on to poor line of sights,  
19 but, you know, in addition, we've inherited crossings  
20 like, for instance, there is one in the Santa Cruz area  
21 that's it's an engineering construction company, and they  
22 transport like heavy equipment. I got some photos I can  
23 show you, but this type of thing where, you know, steel  
24 welding equipment and equipment that goes over this  
25 crossing, and a lot of times they don't contact us to get  
00090

1 a flagman out there. And these things are unsafe. And a  
2 train coming around the corner and seeing something like  
3 that could present big problems.

4 I've seen some other derailments, and it's not  
5 pretty. Liability, of course, is a big issue. And how  
6 do we address liability with these old agreements? How  
7 do we get the new owners to take responsibility? Most of  
8 them will. If it's a small farm owner, they can't afford  
9 to pay for upgrades, flashing gates and enhance the  
10 crossing. So these are all issues that we're dealing  
11 with, which we could seek for protections from liability.

12 We're trying to do that as we renew the  
13 agreements and get the new license agreements. As Carol  
14 mentioned, other members and agencies that own the  
15 property have a license type of agreement with more  
16 indemnification. We're trying to see that. I would like  
17 to see where ever we can get some more funding, whether  
18 it's from the State or the Federal, to pay for some of  
19 these upgrades. Local agencies don't like to take  
20 responsibility for private crossings, but again, we're  
21 seeing the use change, we're seeing what used to be, say,  
22 let's say, one-family crossing is now a multiple-family

23 crossing.

24           We've got locations where there is a private  
25 school in Orange County, where they're selling parts of  
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1 the property and incurring more ball fields, and there is  
2 school buses that use these private crossings, so we've  
3 got all kinds of different types of issues that we're  
4 dealing with.

5           Let's see. What else do I have?

6           You know, with respect to responsibility, if we  
7 could find out where we do obtain some funding, I don't  
8 know whether it's State.

9           Steve, do you know any State funding? You  
10 mentioned in your talk that there was some Operation  
11 Lifesaver money or --

12           MR. CATES: We put money into Operation Lifesaver  
13 for marketing and publications and that sort of thing.  
14 But when we use funds out of the public transit account,  
15 there is no exclusive prohibition against using that on a  
16 non-highway system. If we use highway funds, Federal or  
17 State highway funds, we absolutely are prohibited from  
18 using those on a private structure. But when we go in  
19 and do upgrades for our trap and signal projects with the  
20 railroads, the railroads are going through an upgrading.  
21 Let's say we're doing 20 miles of track and we'll  
22 identify the grade crossings and the private crossings,  
23 and the railroad will work with the private owners to do  
24 some grading and some things like that.

25           And some instances, we put in concrete panels,  
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1 but we have the way we, I guess, write our agreements,  
2 it's not our money that does that. We enter into a  
3 cooperative agreement with the railroad, and there is  
4 usually a cost-sharing. And so the railroad agrees to  
5 pay, let's say, a certain percentage of the cost to put  
6 in this track and upgrade this 10 or 20 miles or whatever  
7 it happens to be. And so we pretend like all of those  
8 improvements at the private crossing are done with the  
9 railroads' share of the funds.

10           Now, that doesn't deal with the issue of  
11 liability. I'm scheduled to be deposed in a couple of  
12 weeks over some work that, I guess, was done at a private  
13 crossing. I'm not -- I don't even recall exactly what it  
14 was we did, but I'm being deposed, I guess, to find out  
15 what do I know about this. So it doesn't hold the State  
16 Highway Department exempt through the discovery process  
17 when we've done this sort of thing.

18           So that becomes a real concern when my  
19 attorneys now are, you know, admonishing me to be very  
20 careful about what we do at these crossings.

21           MR. MATHIEU: That brings up a question.

22           I know, Carol, you talked a little about  
23 liability and licensing agreements, Carol, and my  
24 question is: As a railroad operating through a crossing,  
25 is it better to have the public crossing have more  
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1 protection as a public crossing versus a private crossing

2 with a good, solid agreement? Which would be better  
3 protection as far as liability?

4 MS. HARRIS: I want to hesitate about opining. This  
5 is actually beyond my expertise. I don't litigate these  
6 cases, so I haven't really got the experience. I just  
7 know that it's much better to have someone responsible  
8 for the crossing. And it has to do with the ownership or  
9 the responsibility for the adjoining roadway.

10 In most cases, that's kind of where you look,  
11 is whose road is it that is crossing the track? And if  
12 it's a private road, obviously what we want is a good,  
13 solid agreement. But if we can't get that, there have  
14 been situations in which we would prefer to have a public  
15 roadway authority take responsibility for that road, and  
16 so that we can work with them under the accepted formula  
17 for the public roadways.

18 MR. COTHEN: Ron, do you have anything else for us?

19 MR. MATHIEU: That's it for now. I may in a little  
20 while.

21 MR. COTHEN: We'll go around the room as many times  
22 as we need to here within the budgeted hour.

23 I did want to make clear one thing, and that is  
24 we talk about responsibility. And I hear some anxiety in  
25 the room about taking on responsibility that's not firmly

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1 placed on one. That's being called a volunteer. And the  
2 Federal Administration knows about being a volunteer. In  
3 1994, stepped forward with the rest of the Department of  
4 Transportation and said we want to do some more about  
5 highway railroad crossing safety. We will search the  
6 statute books in vein to find any mandates for us to do  
7 that.

8 We just sensed that there was a void in terms  
9 of leadership with regard to highway rail crossing safety  
10 on a national basis, and we wanted to see if we could  
11 work with our colleagues from California and Louisiana  
12 and Minnesota and North Carolina and others to make  
13 things better. And that, in essence, is what we're doing  
14 here with regard to private crossing problems. And that  
15 is to gather as much wisdom as we can from those who have  
16 been working in the field and take it to the next level.

17 But from a statutory point of view, we're not  
18 burdened with that responsibility. We're just burdened  
19 with that responsibility from a moral perspective, I  
20 think.

21 Okay. Now is the time that I enjoy most about  
22 these meetings, when I relinquish the chair to my  
23 colleague to hear the discussion on some scenarios and  
24 what else that our teams have laid out for discussion.

25 Miriam will take the first.

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1 MS. KLOEPPPEL: I'm sorry, I thought we had this  
2 loaded.

3 MS. CARROLL: I thought we did, too.

4 MS. KLOEPPPEL: Technical situation seems to be taken  
5 care of. All of this is a small set of very sketchy  
6 little case studies in the hopes that they would prompt



7 some good discussion between people. So if you have  
8 additional comments or if you want to diverge, feel free.  
9 This is literally just a springboard. It's not  
10 something that I intend to use to specifically adhere to.  
11 I would just start here.

12 This is actually something that was mentioned  
13 to us at one of our meetings. We have the sole access to  
14 an historical home. It has been provided for 75 years by  
15 a precriptive easement. A developer purchased the  
16 surrounding property and is planning to put in a large  
17 industrial complex to which he wants to put in a siding.  
18 The siding he wants to put in eliminates the private  
19 crossing leading to the residence.

20 I have a suspicion that's it's different in  
21 every State.

22 I guess the first question I would have is: Is  
23 there any organization that is designed to oversee or  
24 adjudicate any differences between this one property  
25 owner and another when it impinges on a private crossing  
00096

1 like this?

2 MR. GILBERT: The PUC process could be utilized to  
3 resolve the disputes between the parties.

4 MS. KLOEPPPEL: How would you hear about it? Would  
5 it come up in the Courts?

6 MR. GILBERT: They would have to file a complaint  
7 with the Commission. The property owner whose private  
8 crossing was eliminated would have to file a complaint,  
9 or the party who wanted to build the crossing -- or build  
10 the siding, I guess, would have to file a complaint to  
11 demonstrate that the crossing was unneeded.

12 MS. KLOEPPPEL: Carol, you wanted to --

13 MS. HARRIS: I just wanted to say that you can't get  
14 a crossing by prescription in California. So that's  
15 actually an important difference maybe between California  
16 and other States. It's something other States should be  
17 looking at because that's almost impossible to monitor.  
18 You get people that build outlaw crossings and you have  
19 to be ever vigilant if you have a State that has  
20 prescriptive rights.

21 MS. KLOEPPPEL: Asking, what is the mechanism for  
22 prohibiting? Is it simply just not recognized totally  
23 within State law?

24 MS. HARRIS: Here is the problem: If they're  
25 landlocked, you could post the crossing. If you found  
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1 that it was one that was under a prescriptive claim, you  
2 could post it for closure. But then they could argue  
3 that public convenience and necessity requires their  
4 access. They would have to argue that to the Public  
5 Utilities Commission. But when they did, then they would  
6 be forced into an agreement. They would be forced to  
7 deal with the railroad. So that would be the way it  
8 would work, I think.

9 MS. KLOEPPPEL: What about in other States, would it  
10 be -- Bob, do you have anything like that prohibiting  
11 preemptive easements in Washington?

12 MR. BOSTON: Not that I'm aware of.  
13 MS. KLOEPPPEL: So they can just spring up like that?  
14 MR. BOSTON: Yeah. And I think they have, in  
15 conversations with Steve Mills from BNSF Railway who  
16 deals a lot with private crossings, they have found some  
17 in eastern Washington that just sprung up, farmer out in  
18 the field put some planks across mainline tracks to get  
19 his tractor across and stuff like that. And they could  
20 spring up occasionally.  
21 MS. KLOEPPPEL: Are you aware of anything within your  
22 State statutes, or even in the case law or whatever,  
23 which indicates the duration of time after which a  
24 preemptive easement has some kind of force?  
25 MR. BOSTON: No.

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1 MS. KLOEPPPEL: Okay. I had a few questions. And  
2 let's see.  
3 So in some sense, what rights are assigned to  
4 the holder of a long established preemptive easement, it  
5 sounds like it's different from State to State.  
6 Does anyone have any other perspective on that?  
7 Some of you railroads operate through quite a few States.  
8 I was curious to see what your experience might have  
9 been.

10 (No answer.)

11 MS. KLOEPPPEL: I think actually a number of these  
12 have already been addressed, and I'm going to move  
13 forward.

14 In this case, a developer converts farmland to  
15 a large residential neighborhood. A private crossing  
16 that serves the farm suddenly sees a vast increase in  
17 traffic counts and the type of vehicles using the  
18 crossing.

19 This is something that we've been talking about  
20 a lot this morning. And one of the questions that I  
21 still have, even after hearing what California does and  
22 what other States might do is, who's going to know about  
23 the changes to the crossing? How soon is the railroad  
24 going to find out about a change like this?

25 Steve?

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1 MR. CATES: I'm not sure how the railroad is going  
2 to find out, but there should be a public hearing process  
3 under the California Environmental Quality Act that would  
4 set forth the conditions for the developer to change that  
5 farmland to a residential neighborhood. Since there is a  
6 change in zoning, it would be a public hearing one.

7 Kevin, you've done a lot of these. It would  
8 more than likely entail an amendment to their general  
9 plan, so there would be a long -- not a long -- but there  
10 would be a fairly lengthy hearing process.

11 I was director of the Environmental Counsel of  
12 Sacramento for five years, and my experience is a process  
13 like that probably would span a period of two or more  
14 years.

15 MS. KLOEPPPEL: In your experience, has the question  
16 of grade crossing safety come up in these environmental

17 hearings?

18 MR. CATES: You know, I'm kind of embarrassed to say  
19 this, but I worked for CalTrans at that time and I was an  
20 executive director on the California -- the Sacramento --  
21 Environmental Counsel of Sacramento. And I can't  
22 remember when it was. It was around 1985 or so.

23 Even though I worked for CalTrans and worked  
24 financing rail projects, it never really occurred to me  
25 to even consider the impacts at the railroad grade

00100

1 crossing. And our experience at CalTrans is that cities  
2 and counties do not consider the impact at public or  
3 private railroad grade crossings when they are  
4 entertaining changes in their land use.

5 We had a situation in Sacramento County,  
6 Sheldon Road. A developer developed property, owned  
7 property on one side of the railroad crossing. The road  
8 was widened all the way up to the crossing, and then a  
9 barrier was put on that lane. And it was just two lanes  
10 on the other side. And so, you know, the county didn't  
11 do anything to mitigate the traffic impacts from the  
12 crossing and allowed the roadway to be widened right to  
13 that crossing. And I have seen that in a number of  
14 instances.

15 MS. KLOEPPPEL: I saw your hand first.

16 MR. BOLES: And the widening is actually illegal in  
17 California. Under our General Order 72(B), Part Three  
18 makes it illegal to make a bottleneck at a rail crossing.  
19 Also, for the development, we now, as Carol Gilbert (sic)  
20 had mentioned earlier, we look at environmental documents  
21 for even major projects, there are some minor projects  
22 that are categorically exempt that we don't have the  
23 staff to review at this time, but it's almost improbable  
24 for a project right now to go through without our staff  
25 getting involved.

00101

1 MR. MATHIEU: I want to say what Kevin said. Our  
2 agency also looks at amended plans for local agencies,  
3 but we do comment on any adjacent developments to the  
4 railroads. And railroad traffic impacts is one of the  
5 big areas we comment on. So we look at that, as well.

6 MS. KLOEPPPEL: Carol, you had your hand up?

7 MS. HARRIS: I just wanted to say that CalTrans,  
8 another wing of CalTrans actually was very helpful in one  
9 of the cases that we dealt with, which is an application  
10 for a new crossing where it turns out that CalTrans  
11 Division 3, which is outside of --

12 MR. CATES: Our District 3.

13 MS. HARRIS: -- had submitted comments in an  
14 environmental review process for an industrial park  
15 pointing out the grade crossing access and grade crossing  
16 problems, and it was very helpful in the context of the  
17 later Public Utilities Commission proceeding. And I  
18 think we, also, in addition to the efforts that the PUC  
19 is making to try to monitor these developments on long  
20 right of way that could impact crossings, we're  
21 independently trying to get on the early side of the

22 curve where we can, and to get comments in the record in  
23 the environmental review process.

24 MS. KLOEPPPEL: Steve, you had --

25 MR. CATES: Carol mentioned our comments from our  
00102

1 District 3, our division of rail worked with our District  
2 3 on commenting on that, and what has led to this  
3 commenting.

4 Up until about a year ago, we had a legal  
5 theory that CalTrans could not comment on the impacts at  
6 railroad grade crossings where there are local streets  
7 and roads. We only have direct authority or explicit  
8 authority to be a responding agency or to comment when it  
9 impacts a State highway. But apparently, there has been  
10 some changes in State law, and we've come up with this  
11 legal theory that our passenger rail service, passenger  
12 rail service both provided by CalTrans and by Amtrak and  
13 by the commuter rail agencies provide an alternate route  
14 to the freeway, to the State Highway, and, therefore, if  
15 a development has an impact on a grade crossing, our  
16 districts are required to review and evaluate the  
17 environmental document and comment on those potential  
18 impacts to the grade crossings.

19 So we've kind of developed this kind of new  
20 theory on how we're approaching that. We issued a  
21 directive on that about a year ago.

22 MR. GILBERT: I wanted to mention a couple of things  
23 about the environmental process here in California.

24 The environmental documents go through a State  
25 clearing house, so that's where everybody gets their  
00103

1 notice about projects and environmental reviews that are  
2 underway. And the agency generating environmental  
3 documents must respond to comments it receives.

4 However, we find that they don't always respond  
5 in the proper manner, and getting local officials who  
6 sometimes have other motivations in approving projects to  
7 fully appreciate the comments that we do offer regarding  
8 pedestrian/motor safety along the rail corridors is  
9 sometimes an uphill battle. And there are times when our  
10 comments are sort of not completely in order, at least  
11 minimized, and the projects, you know, ultimately go  
12 forward.

13 Our goal is to ensure that the crossings are  
14 upgraded as appropriate pursuant to the development, but  
15 we find that that doesn't always occur, even if we raise  
16 the flag.

17 So then we're left with the dilemma: Do we  
18 challenge the environmental document?

19 You know, obviously, that involves a lot of  
20 staff time and a lot of effort on legal staff and, you  
21 know, we haven't challenged one specifically yet, but I  
22 think there are some projects that may merit such a  
23 challenge.

24 MS. KLOEPPPEL: That's interesting.

25 So at the moment the only method you have for  
00104

1 challenging or disputing something is through a complex  
2 and time intensive process?

3 MR. GILBERT: Right. You would have to challenge  
4 them in their C.E.Q.A. approval process.

5 MR. CATES: And there are specific timelines  
6 established by statute in which you have to respond  
7 during different parts of the process. So, one: You  
8 have to be noticed that this action is being taken by the  
9 local agency, and two: You have to actually have read  
10 that notice and respond within the appropriate period of  
11 time or you miss your window of opportunity to comment.  
12 So that provides a burden, too.

13 MR. BOLES: I would like to add on to Steve. If  
14 they do minimize your comments, you can then give  
15 comments to their comments and file them prior to the  
16 Board of Supervisors or City Counsel approving the  
17 project, and then you can only legally litigate against  
18 specific comments that you have made. And that's pretty  
19 much the mechanism.

20 MS. KLOEPPPEL: How long would this take?

21 MR. BOLES: Well, you get the initial notice. And  
22 the standard is 30 days review period, even though it can  
23 be up to a hundred and eighty days. And then, depending,  
24 generally, it can be 14 days that you have to do your  
25 follow-up comments.

00105

1 MS. HARRIS: Let me explain the context in which  
2 this arises, this suggestion that the public agency,  
3 either the PUC and/or the Department of Transportation,  
4 or separately, the railroads are injecting themselves  
5 into land use planning decisions and the environmental  
6 review process associated with that. And we, too, are in  
7 the same position where we have submitted comments and we  
8 see that our comments are really not being given as much  
9 weight as they should in that environmental process or  
10 are being glossed over.

11 We also have the very difficult question of  
12 asking: Are we going to expand the kind of resources  
13 that you have to expand to find a land use planning  
14 decision that doesn't maybe directly, immediately impact  
15 the railroad, but will only impact it after the fact?

16 For example, when we get complaints about horn  
17 blowing and we get requests for new crossings, one thing,  
18 as far as crossings go, the PUC, they actually sort of  
19 have an ace in their hand in this process, because if  
20 they do flag in the environmental review process that  
21 they may have difficulty getting approval for a crossing  
22 before the PUC, and that gets ignored, when that  
23 application comes before the PUC, it can be a very rough  
24 process for the applicant, public authority that is  
25 seeking the crossing. So they have, later, when the

00106

1 actual application is filed, they do have some clout in  
2 that process. But even that's difficult because of the  
3 public convenience and necessity considerations.

4 MR. GILBERT: One more comment.

5 We have -- in order to try to get out our

6 message, we have requested from our State Department of  
7 Finance some increased funding to hire additional people  
8 to supplement what we're doing on the environmental side  
9 so we can get out and meet with local planners and county  
10 officials that are approving these projects to make sure  
11 that they understand the repercussions on the rail  
12 corridors, and specifically, the crossing.

13 So we are hopeful that we will be given new  
14 bodies to go forth and do that work.

15 MS. KLOEPPPEL: Dave?

16 MR. PETERSON: The comment I would like to make is  
17 we're doing a lot of discussion about what California,  
18 which, on our system is one of the very few States that  
19 actually has a mechanism in place to address the  
20 situation exactly like this. The vast majority of States  
21 we have, we operate in, there is nothing in place to even  
22 call attention to the railroad, the State, or if the  
23 State has a regulatory body that they need to look at  
24 safety aspects of private crossings that are being  
25 converted into a large residential development or a large  
00107

1 commercial area.

2 And, typically, what will alert us in the  
3 crossing safety area is that either an incident occurs  
4 or, as Carol Harris mentioned, complaints come in  
5 pertaining to whistle noise. And there is a definite gap  
6 in place here. This is even worse in States, the  
7 non-regulatory States where we operate in where there is  
8 not a PUC where we can go to and say, hey, this is now de  
9 facto public crossing and the road authority needs to  
10 take it into their road system to make sure all of the  
11 signage that's in place for motorists are going to  
12 conform with the MUTCD.

13 It is a real problem that exists out there, and  
14 we see it, unfortunately, far more frequently than we  
15 care to and what you would think.

16 MS. KLOEPPPEL: Thank you.

17 Any other comments?

18 I did have an additional question on this one.  
19 What if the city or some public entity chooses to adopt  
20 the crossing, make it public. Is there any mechanism for  
21 reporting this to the State and to the railroad?

22 Go ahead.

23 MR. PETERSON: Well, as I mentioned, when we were in  
24 Fort Snelling, in some cases there is, but in many cases  
25 both neither the railroad or the State agency that keeps  
00108

1 track of the crossing records are not updated by the  
2 Public Road Authority or the political body that they  
3 have accepted a private roadway into the public road  
4 network so we can make sure that the signage is correct,  
5 that it's now being reviewed by the State and the  
6 railroad out there providing the data that's needed for  
7 evaluating the crossing devices on a regular basis in  
8 accordance with the CFR. And in many States, that  
9 mechanism does not exist.

10 MS. KLOEPPPEL: Okay. Go ahead.

11 MR. JINBACHIAN: Varouj Jinbachian, J-i-n-b-a-c-h-i-a-n,  
12 with the Public Utilities Commission.

13 I had a recent project like this where it was a  
14 private crossing and there was a development, and the  
15 city took over the private crossing and filed a formal  
16 application with us for a new public crossing. We met  
17 with them and they operated the warning devices, so there  
18 is a formal process.

19 MS. KLOEPPPEL: In the State of California?

20 MR. JINBACHIAN: Yes.

21 MS. KLOEPPPEL: Any other States?

22 Is there a process in Washington?

23 MR. BOSTON: If it goes to a public crossing, if  
24 they take a private crossing and want to convert it into  
25 a public crossing process, very much like California PUC,  
00109

1 it goes to a hearing Commission.

2 MS. KLOEPPPEL: Is a hearing a time-intensive  
3 process?

4 MR. JINBACHIAN: It's not always necessarily a  
5 hearing. If they file an application and all of the  
6 parties are in agreement, then we draft and it goes on to  
7 their consent agenda. And there is no hearing held in  
8 that case. If there is a contested matter, then there  
9 are hearings held.

10 MR. BOSTON: Very similar in Washington.

11 MS. KLOEPPPEL: So it's not necessarily a long and  
12 arduous process and doesn't take necessarily a whole lot  
13 of staff time?

14 MR. JINBACHIAN: Correct.

15 MS. HARRIS: The benefit, though, of this process is  
16 that it does allow for diagnostic, and the railroad would  
17 be allowed in that diagnostic. And so you've kind of got  
18 a meeting of the minds where the public railway agency,  
19 the regulatory Commission, and the railroad, determine  
20 what is needed at the crossing to accommodate the  
21 intended use, and it also provides an opportunity for  
22 evaluating the potential for possibly eliminating  
23 crossings that are nearby, as well as grade separation.  
24 So these provide valuable opportunities when this occurs  
25 to try to promote rail safety, generally.

00110

1 MS. KLOEPPPEL: Great.

2 Anyone else?

3 Very simple case here. You have a private  
4 crossing that is apparently unused in various places.  
5 Are there processes for identifying the crossing holder?  
6 Is this something that -- I understand, on occasion, this  
7 is something that railroads are faced with.

8 Do you have any process?

9 MS. HARRIS: I have had a lot of experience with  
10 this one. The process for identifying the crossing  
11 holder, of course, is to review to the extent you can the  
12 applicable deeds and the crossing agreements. In  
13 addition, if you go a step further and get access to  
14 title records, sometimes that gives you some clues, but  
15 that is a very arduous process. And in California -- I

16 think maybe Union Pacific is the only one that's actually  
17 required to do this -- we're supposed to post private  
18 crossings before we close them to give notice to anybody  
19 who is using them before we actually close them.

20           Where we haven't posted them -- and that  
21 actually led to this requirement where we post them -- we  
22 did close some that we thought were not being used some  
23 years ago, and there was -- there were regulatory  
24 processes in response where we had to open some of them,  
25 not all of them, but some of them where we had landlocked  
00111

1 users.

2           So then, again, California has a pretty well  
3 defined process here for dealing with these situations.  
4 I think in other areas, I think it's a little bit wild  
5 and wooly.

6           I know in Nevada where I've also had some  
7 experience, we have crossings pop up and we have  
8 crossings that we have removed sometimes without  
9 retribution. But sometimes we've had to reinstate them.  
10 So it's hard to know that a crossing has actually been  
11 abandoned or isn't used.

12           In a definitive way, sometimes you have an  
13 absentee owner that comes back and suddenly has a use.  
14 And that happened at one of our California crossings. We  
15 had an absentee owner, and the crossing was being used by  
16 high school students to access a river. And it was very  
17 unsafe. And that was one of the ones we closed, but the  
18 owner was in negotiation with the local sanitation  
19 district to sell the property. And so it became a very  
20 costly process for us because we had title companies, we  
21 had a whole battalion of people fighting to reinstate  
22 that crossing.

23           And so, for the railroad, this is an enormous  
24 expenditure of resources to deal with these situations.  
25 It shouldn't be underestimated.

00112

1           MS. KLOEPPPEL: Thank you.

2           You've answered a couple of these.

3           Any other comments, questions?

4           Anya?

5           MS. CARROLL: I've got a lot of questions coming up.

6           MS. KLOEPPPEL: Thank you for your comments. I think  
7 they've given us more that we can dig into at this point.

8           I'm going to hand it over to Anya Carroll who  
9 is going to go through some scenarios here.

10          MS. CARROLL: Thanks, Miriam.

11          We're going to shift the pace a little bit.

12 It's getting late in the afternoon. People probably want  
13 some coffee.

14          We're going to go to some game show questions  
15 and answers. There is no wrong answers. There is only  
16 right answers.

17          MR. MATHIEU: Do we have a prize?

18          MS. CARROLL: We got a prize. You get a picture of  
19 my dog. How is that?

20          MR. CATES: Can we get it signed?



21 MS. CARROLL: By the dog, yeah. She has signed  
22 birthday cards.

23 MR. CATES: That way, I can show it to my dog.

24 MS. CARROLL: So what we would like to do, we did  
25 some brainstorming on the FRA team and came up with some  
00113

1 scenarios that we would like you to think about and give  
2 us some possible responses to.

3 What would happen if U.S. D.O.T. establishes a  
4 requirement that every private crossing have a standard  
5 formal agreement, and for those crossings for which the  
6 agreement cannot be found or could not be created, they  
7 would be closed?

8 MR. BOLES: Can I ask you one question?

9 MS. CARROLL: No questions, only answers.

10 MR. BOLES: Would you consider a deeded agreement to  
11 be a reasonable agreement from something from the 19th  
12 century?

13 MS. CARROLL: That's up for debate. In California  
14 it says it has to be a written agreement. You know,  
15 maybe we're looking at a standard formal agreement.  
16 Would that include deeds? Would that include preemptive  
17 easements? Would that include written? That's up for  
18 debate.

19 MR. MATHIEU: Can we make it a requirement that even  
20 private crossings have a current or updated standard  
21 formal agreement, not an old 1920 agreement, but  
22 something that's current?

23 MR. GILBERT: That changes it a lot, though. That  
24 changes the amount of work that the railroad would have  
25 to go through. I mean, that's a big change. When we  
00114

1 discussed this in the context of our revised General  
2 Order, we talked about a number of different vehicles  
3 that could be the formal agreements that we're talking  
4 about.

5 And we were talking contractual agreements,  
6 deeds, and some of these documents we realize are over a  
7 hundred years old.

8 But that having been said, Ron's point is well  
9 taken. The agreement established a hundred years ago is  
10 probably not valid today.

11 MS. CARROLL: Carol?

12 MS. HARRIS: Unfortunately, the deed that was  
13 established a hundred years ago probably is valid today,  
14 and that's going to be a real serious impediment to this  
15 proposal because you'll find yourself in court right  
16 away. There are court remedies that those deed holders  
17 can resort to if we were to tell them we're going to  
18 close your crossing if you don't sign this paper. We  
19 would find ourselves crosswise quite quickly.

20 MR. JINBACHIAN: I think the important point there  
21 is that the agreement has to be found. If they don't  
22 have that piece of paper, they can't go to court. If  
23 they do have it, then there is no problem. So I think  
24 that might work.

25 MR. PETROSSIAN: I think you needed to change the

00115

1 question and not use the word "standard". I don't know  
2 if there is such a thing as a standard formal agreement.

3 MS. CARROLL: That's not to say that a standard  
4 agreement can't be customized based on comments that  
5 we've heard earlier based on terms and conditions that  
6 are negotiated between the railroad and the holder.

7 But is there a need for a baseline standard  
8 agreement that people could use and then negotiate to  
9 that standard so everybody starts off having certain  
10 aspects covered?

11 MR. BURCAT: Yes. My question would go to who has  
12 the onus to have a copy of that agreement?

13 Obviously, the railroads would be very happy to  
14 have all private crossings closed for safety purposes.

15 Does the onus fall on the property owner to  
16 maintain the copy of that agreement or the railroad to  
17 maintain a copy of that agreement?

18 MS. CARROLL: Good question.

19 What's the answer?

20 MR. MATHIEU: I think both parties are party to it.

21 It said if there is two parties to the  
22 agreement, the private entity that owns the crossing and  
23 the railroad, they should both have copies of the  
24 agreement.

25 MS. CARROLL: But if FRA or U.S. D.O.T., whether it

00116

1 be a Federal highway or FRA establishes this requirement,  
2 shouldn't they have a formal copy of that agreement to  
3 say that it's sanctioned and it would be archived, and in  
4 yet, a third place?

5 MR. PETROSSIAN: The other thing is in California is  
6 deeds can be recorded with the county recorders, so you  
7 would have a formal record.

8 MS. CARROLL: Within the locality?

9 MR. PETROSSIAN: Yeah.

10 MS. CARROLL: So in that county if it's a legally  
11 enforceable agreement, then I think that would be fine.

12 MR. CATES: But it may or may not have been filed  
13 with the county recorder at the time like a license  
14 agreement, revokable permits, things like that, that the  
15 railroad typically issues.

16 If I were a landowner, I don't think I would go  
17 to the county. It would never occur to me to go to the  
18 county recorder to file something.

19 MR. JINBACHIAN: Then they don't have one, and  
20 they're out of luck.

21 MR. CATES: Unless you can find a copy.

22 MS. CARROLL: I think to search back to find some of  
23 these records, from what we've heard in North Carolina  
24 and somewhat what we've heard today here, is that even to  
25 find these kinds of documents is very difficult.

00117

1 So anything further, Carol?

2 MS. HARRIS: Another problem is that you're going to  
3 negotiate a class between the Federal regulation and the  
4 State provisions for public convenience and necessity,

5 and I think that that is something that would have to be  
6 addressed in imposing this requirement because those are  
7 very significant competing interests.

8 MR. CATES: Also, the Federal Constitution doesn't  
9 give the Federal government the authority over States'  
10 rights to control property. So you're dealing with the  
11 property rights. That's the exclusive authority of the  
12 State.

13 MS. RANDOLPH: I think from the practical aspect of  
14 the second part to your question, you're going to have a  
15 lot of issues created on the local level. You're going  
16 to have calls come in to you from the mayor, from city  
17 counsel members, State senators, and, in particular,  
18 first responders, fire personnel, police officers if you  
19 go out and close a crossing. And there is no alternative  
20 access or try to close it. There is going to be a lot of  
21 problems. It's going to take a lot of time to do it and  
22 you won't be able to do it.

23 MS. CARROLL: So, if one of these -- say, then,  
24 landlocked property, since its sole access would be  
25 exempt from this kind of agreement if there is  
00118

1 alternative access?

2 MS. RANDOLPH: Of course.

3 MS. WATSON: Then you might have somebody like one  
4 of those previous situations come along and build  
5 something that blocks other alternate accesses, then  
6 you're stuck in that landlocked situation again, which  
7 you can't necessarily predict.

8 MR. PETROSSIAN: I don't know if you really want to  
9 go there, because then you have the due process issue  
10 with at least the PUC. So, if we wanted to close a  
11 crossing, the property owner could go to the Commission,  
12 get a formal hearing that will take a year and a lot of  
13 resources to do that, especially with 4500 crossings in  
14 the State, so I don't know if the U.S. D.O.T. wants to  
15 take this on and have a huge warehouse to put all of  
16 these agreements in.

17 MR. COTHEN: We were going to contract that to the  
18 Volpe Center.

19 MS. CARROLL: Okay. So that was a great discussion  
20 on that question.

21 And I think earlier in the day we've heard from  
22 a number of you who said leave the control with the  
23 States. We don't want the Feds involved in regulating  
24 private property. So I think that what you've stated  
25 supports those previous statements, so let's go to  
00119

1 question number two.

2 Everybody ready?

3 A new independent. What if a new independent  
4 Federal agency, similar to the Surface Transportation  
5 Board were created to oversee the resolution of private  
6 crossing disputes?

7 MR. PETROSSIAN: We have it here at the PUC. I  
8 don't think that that would help us at all.

9 MS. CARROLL: So what we've heard today is at the

10 PUC you actually have a dispute resolution process?

11 MR. PETROSSIAN: My suggestion would be that the FRA  
12 come up with some kind of legislation or other  
13 recommendations for those States like Washington that do  
14 not have it. But we do have the alternate dispute  
15 resolution, and we do have due process. We have the  
16 hearing process. So that is already taken care of in  
17 California.

18 MS. CARROLL: Okay. Thank you very much.  
19 Carol?

20 MS. HARRIS: You would need to get a new  
21 jurisdictional grant of authority of some sort to be able  
22 to also involve the private parties that are using the  
23 crossing. I mean, that's one of the dilemmas that we  
24 always face is that we have the regulatory agency and  
25 they regulate the railroad, but it's only when we can  
00120

1 somehow get a private party to come into the Commission  
2 proceeding, usually because they want something or  
3 they're about to have something taken away, that the  
4 Commission actually even has some ability to influence  
5 their behavior or condition.

6 The crossing, you would have the same problem  
7 at the Federal level. You'd be dealing with private  
8 parties and you would be looking for legal case to get  
9 hooks on them, and that can be quite difficult.

10 MS. CARROLL: Thank you.

11 MR. JINBACHIAN: I want to get back on what Vahak  
12 was recommending about giving recommendations to a State.  
13 If the recommendation comes from Federal government, that  
14 politically it might be easier to get State legislature  
15 to adopt a new law. So that might be helpful in that  
16 respect.

17 MS. CARROLL: So is there a consensus that some  
18 support would be nice in this -- California may be  
19 pro-active and ahead of the curve, in front of all of the  
20 other States on this, but maybe if some of the railroads  
21 would comment -- are other States moving in that  
22 direction or would they -- would they find this helpful?

23 MR. SCHWARTZ: They're certainly not moving in that  
24 direction. I can say that with some level of assurance  
25 from the standpoint of private property owners. Already  
00121

1 got a form and forum and that's called county courthouse.

2 MS. CARROLL: Right.

3 MR. SCHWARTZ: And getting divested in the county  
4 courthouse and jurisdiction is likely to be a battle of  
5 monstrous portions. The interests involved in preventing  
6 loss of that jurisdiction would be rather substantial, as  
7 you can imagine. Local interests are just not wanting to  
8 have to deal with Federal agencies that are going to be a  
9 whole lot less sympathetic to them than the local elected  
10 judge is going to be. And that's a reality that you have  
11 to face square right in front of you in dealing with an  
12 issue like this.

13 MS. CARROLL: Okay. Thank you very much.  
14 Any other comments on this question?

15 MR. PETROSSIAN: Can I piggyback on what Carol said?  
16 And that's the regulation of PUC over the railroad.  
17 When we tell the private property owner we  
18 can't enforce anything on them, but what we did was we  
19 told the private property owner that unless you do this,  
20 we're going to tell the railroad to close the crossing.  
21 So, that's where our --  
22 MS. CARROLL: Your hook?  
23 MR. PETROSSIAN: Yeah.  
24 MS. CARROLL: Okay. Well, every hook we can get is  
25 a good catch. More fish that way.

00122

1 Question number three: What if -- and we could  
2 fill in the blanks here -- anybody could do this -- what  
3 if the U.S. D.O.T. provided guidance or standards on  
4 crossing design and warning device implementation at  
5 private crossings?

6 MR. JINBACHIAN: I think it should be the private or  
7 public crossing. They should be treated the same. So in  
8 that respect, since there is the technical working  
9 groups, guidance documents should be applied to private  
10 crossings. So I don't know if there is a new need for a  
11 standard for private crossings only.

12 MS. CARROLL: But a technical working group, I was  
13 involved in that group. We did not discriminate between  
14 the types of crossings that you see more of, as far as  
15 being private, like the industrial crossings and  
16 recreational crossings and those types of crossings. If  
17 you have propane tankers going across this railroad track  
18 at such a frequency, you might need to have gates and  
19 lights, that kind of thing.

20 MR. JINBACHIN: My point is if we were looking at  
21 public crossings, we would consider all those, what you  
22 just mentioned. So if we're looking at private  
23 crossings, again, look at the same issues. And if  
24 they're valid, then we recommend gates. If not, it  
25 doesn't make a difference. If it's a private or public

00123

1 crossing, we're going to look at how it's being used, the  
2 railroad traffic and all of the other important factors.

3 MS. CARROLL: Okay. Any other comments on this one?

4 MR. COTHEN: Let me just revise the question a  
5 little bit. We said this is a great thing to bring the  
6 issue of responsibility to California because they're  
7 taking responsibility. It's also, you know, there's also  
8 a downside to that, and that is that the rest of the  
9 nation, by and large, is not so well situated.

10 Let's put aside -- let's assume that California  
11 is in a state of nature and, therefore, we don't have  
12 engineering expertise at a State level to apply to  
13 private crossing issues. Okay. We don't have public  
14 roadway authorities taking responsibility. We don't have  
15 regulatory agencies taking responsibility. One of the  
16 assumptions that we've sort of made over the years,  
17 subject to it being revised, was that if somebody was  
18 going to deal with a private crossing issue in the  
19 absence of the active involvement of a State regulatory

20 agency or State D.O.T., that we would need to have some  
21 warrants for what fits in various types of crossings that  
22 were reasonably standard or we wouldn't make much  
23 headway. We don't have the engineering expertise to  
24 apply to it, again, in California, which is the State of  
25 nature, or Oklahoma, or wherever.

00124

1 Is there any prospect, given the complexity of  
2 the issue, that we might call out some baseline warrants  
3 for various types of engineering improvements, and would  
4 that help in terms of providing some degree of uniformity  
5 with regard to the safety improvements of private  
6 crossings?

7 MS. CARROLL: You would start off with a minimum  
8 requirement of a stop sign and a private crossing sign.

9 MR. COTHEN: Can I retrogress a little bit.

10 California and a couple other States have  
11 provided for use of a cross buck with a stop sign as  
12 default, three major class one train railroads have  
13 signage campaigns across the nation basically taking that  
14 kind of pattern. So either by State law or as a result  
15 of railroad actions, that is the default signage at the  
16 majority of private crossings in the United States.

17 And we actually had suggested the same thing in  
18 draft guidelines that were put in a file drawer  
19 somewhere. Thereafter, they had some, you know, 10 years  
20 ago, and that was long after California had also been a  
21 league away. And we tried to have a discussion about  
22 this at our last stop. And I think it was fine, but I  
23 would like to hear more on it. Right now, where the  
24 committee for uniform traffic devices seems to be headed  
25 on the public side is default signage would be cross buck

00125

1 with a yield sign. Stop sign is indicated based on an  
2 engineering study and some other criteria that are called  
3 out in the technical working for it and Federal Highway  
4 Administration memo, and we hear from time to time that  
5 it makes sense just to apply the Manual for Uniform  
6 Traffic Control Devices or MUTCD, to private crossings,  
7 as well with some experience. How do we feel about this?  
8 Is the cross buck and stop sign the appropriate default  
9 signage?

10 MR. PETERSON: I would like to comment a little bit  
11 about the National Committee For Uniform Traffic Control  
12 Devices, working on -- dealing with signage at private  
13 roadways.

14 What they did was they were discussing signage  
15 at roadways that are private roads that have public  
16 character. And, accordingly, when you have a road that  
17 meets that criteria, they were recommending that the  
18 standard signage that is normally in the manual for  
19 uniform traffic devices for public roads be used on those  
20 roadways.

21 Where that applies to private railroad  
22 crossings is if you have a private roadway that has  
23 public character, such as it goes into a shopping mall or  
24 to a recreational area, in those circumstances they feel

25 like cross bucks with a yield sign or cross bucks with a  
00126

1 stop sign, when a study shows it as being warranted,  
2 should be considered.

3 It was specifically with the ones with public  
4 character. I just wanted to put a little clarification  
5 on that.

6 The majority of the crossings that we run into  
7 on my railroad don't fall under that character. They're  
8 going to be private crossings for the single user or  
9 private crossings serving a farm access or something  
10 along that line.

11 MS. CARROLL: Thank you, Dave.

12 MR. JINBACHIAN: I'm not an attorney. As I  
13 understand the rules with MUTC, that applies even on  
14 public roads where you get Federal funding for the  
15 project then you have to comply with the MUTC.

16 MS. CARROLL: Minimum.

17 MR. JINBACHIAN: If it's a private crossing that is  
18 not getting any Federal funding, how can the Federal  
19 government require any type of warning devices, which was  
20 something that Steve brought up earlier? I think it's a  
21 constitutional issue.

22 MR. CATES: I think it would be through the  
23 regulatory authority, through the railroads, then the  
24 signage would be installed on the road right-of-way.

25 MR. JINBACHIAN: It would be railroad required, not  
00127

1 a property owner requirement.

2 MR. CATES: I think that's the way it would have to  
3 be.

4 MR. COTHEN: There has been a little further  
5 background. There has been discussion within the  
6 Department of Sanitation about applying the MUTCD  
7 criteria to private crossings, and at one point, the  
8 Federal Highway Administration entertained that.

9 Further conversation in the department the  
10 feeling was that it would perhaps be an empty statement  
11 to say you need to do this, but number one, we have no  
12 authority to tell you to do it, and number two: We have  
13 no money to tell you to go do it. And that's the reality  
14 of the Federal Highway program, of course, in terms of  
15 the limitation of the scope of that grand mechanism.

16 And so it was felt that through the process  
17 that we're trying to set in motion here we would make  
18 whatever decisions needed to be made at the Federal  
19 level, which might include the requirement to go for  
20 additional regulations or whatever.

21 Certainly, the Federal Railroad Administration  
22 could, I believe, require -- counsel, I think, feels the  
23 same, having worked on the issue as long as I have --  
24 that the Federal Railroad Administration could require  
25 minimum signage be placed on railroad property if that

00128

1 were an appropriate role for us to undertake. There is  
2 no requirement that would issue regulations in the area.

3 MS. CARROLL: Carol?

4 MS. HARRIS: Yeah. Just putting on my AAR hat, I do  
5 want to caution, it's easy when you're operating mainly  
6 in one State that has a well developed regulatory scheme  
7 to things that might be simple or easy, but when we go to  
8 all of the States, you've got so many different  
9 situations, it would be very important. Just as MUTCD  
10 process involves a lot of technical input and technical  
11 review, it would be important to have that on any effort  
12 to provide guidance or standards that would operate  
13 independently under an FRA umbrella, but additionally,  
14 you need to look at cost effectiveness, and you need to  
15 look at what would be involved with implementation.  
16 Because I think the worst things would be to create a  
17 situation where you had a lot of resources being expended  
18 for something that didn't buy that much incremental  
19 safety, particularly where you've got different standards  
20 that have been adopted and that are working reasonably  
21 well in different parts of the country. I think it would  
22 require very careful review to come up with something  
23 that would be reasonable and that could be successfully  
24 done.

25 MS. CARROLL: On, yeah, the document that we've been  
00129

1 discussing, besides the MUTCD is the technical working  
2 groups, the U.S. D.O.T. technical working groups guidance  
3 on warning device applications. That was done over a 12  
4 to 16-month period of time. It brought in private and  
5 public stake holders, as well as the railroads, the  
6 utilities, the suppliers, and it allowed the group to  
7 come up with a consensus by crossing type, passive  
8 crossing, active crossing, grade separation, and it came  
9 up with performance guidance as basically what the  
10 document holds. And it was a very good effort and it was  
11 a nationwide consensus effort looking at who is doing  
12 what and what works right.

13 So I think over the course of the three  
14 meetings we've had now, including this one, that document  
15 keeps resounding as a good performance guidance document  
16 for use, and we just want to know how do we need to  
17 change it for private crossings versus public crossings,  
18 and our friends from PUC say why don't you use the same  
19 thing.

20 MS. HARRIS: Well, I have to actually add an  
21 important caveat here. I am not sufficiently familiar  
22 with that work to really be able to state a position on  
23 behalf of the AAR, but I know that's something that they  
24 would want to be able to opine on, and I'm sorry that I'm  
25 not.

00130  
1 MS. CARROLL: That was part of the participants that  
2 generated that document, so...

3 MR. CATES: One thing about the guidance document,  
4 it's a guidance document only, it's not a regulatory  
5 document like the MUTCD. So on State highway projects,  
6 if we were to go out and apply standards, we would be  
7 looking to the MUTCD and not to the guidance document.

8 Now, the guidance document may be referenced



9 during an engineering analysis or engineering study as  
10 providing some direction to the traffic engineers to an  
11 appropriate evaluation technique or methodology or  
12 whatever at the crossing, but it wouldn't -- it doesn't  
13 establish a warrant and it doesn't establish a standard.

14 The other issue Carol talked about was the  
15 economic impacts. That's one of the things that you're  
16 supposed to do in every engineering analysis is consider  
17 and evaluate the economic impact of the proposed  
18 improvements.

19 If we look at putting in just some signage  
20 probably cost about \$2,000.00, to put in a post with a  
21 couple of signs on it, but I'm not sure what our average  
22 cost is to improve a grade crossing with flashing lights  
23 and gates, but it's probably around \$275,000.

24 Now, if you've got a landowner that, you know,  
25 I mean, if Union Pacific came to me and said, oh, Steve,  
00131

1 um, we need you to contribute \$275,000, you know, to put  
2 in some gates and lights here in your driveway so you can  
3 be protected, I'm not really sure that I should state in  
4 public what I would tell you people. But you know that's  
5 close to the value of my home, you know.

6 So how do you enforce something like that? I  
7 would just say, fine, if you guys want to pay for it, I  
8 would be happy to have it, but I don't want that bell  
9 ringing at any time that I'm here, so you need to go  
10 through a quiet zone process. And, you know, I can just  
11 imagine all kinds of problems with this when we get into  
12 the dollar value.

13 MR. COTHEN: And when we get to the next stop in New  
14 Orleans, we'll be talking about data sheets. And the  
15 reason we need data is in order to make decisions that  
16 are cost effective. And so I'm sure that the California  
17 Department of Transportation and California PUC will be  
18 very supportive of our need to gather that data, as you  
19 have been over the years.

20 MR. CATES: We don't have traffic -- good traffic  
21 counts of public crossings, so we can't give you any at  
22 the private crossings. I mean, that's just a real  
23 problem for me. I go to look at these grade crossings  
24 and many times the traffic information is 15, 20 years  
25 old.

00132

1 MS. CARROLL: Or it's extrapolated from the closest  
2 State highway available?

3 MR. CATES: Yes.

4 MS. CARROLL: Okay. I think we're going to move on.

5 MR. PETROSSIAN: I think when you're extrapolating  
6 the role of the private crossings, that is major public  
7 use, like you're talking about the shopping centers or a  
8 development, then I think that's when we need to  
9 encourage the Public Road Authority to take it over. And  
10 then at that time, then we go into diagnostic and require  
11 whatever bells and whistles are necessary. And if it's a  
12 public road, then we can also, over Section 130 funds,  
13 hear if it's there.

14           So I think that one of the things that may be  
15 needed is to encourage States to maybe pass the  
16 legislation requiring local governments that when they  
17 are granting development rights and they're going to get  
18 sales tax revenue and property tax revenues, that along  
19 with that they pick up that public crossing as a public  
20 road. So that, I think, goes hand-in-hand.

21           MR. CATES: I think that's a good idea because  
22 that's confusing when we're doing these 130 projects. A  
23 lot of times we found that grade crossing, in fact, is in  
24 public use but not owned by the city or county, and so we  
25 can't use Federal funds to make improvements to that  
00133

1 crossing.

2           MS. CARROLL: Okay. Thank you. I think that was a  
3 very great point you made there.

4           We're going to move on because we have more  
5 than 10 questions, I think, and we don't want to stress  
6 you out too much.

7           So what if -- moving on, we're going to talk a  
8 lot about guidance and performance guidance and standards  
9 and guidelines. What if organizations such as AASHTO,  
10 AREMA, the National Committee on Uniform Traffic Control  
11 Devices were to actually include sections on private  
12 crossings in all of their existing guidance and  
13 standards, say they picked up on public use/ private  
14 crossing issue, would it be useful to have guidance in  
15 these areas, in these documents that said that this is  
16 what you need to do? Besides the fact we don't know who  
17 is going to pay for them.

18           MR. CATES: Yeah, because then it provides something  
19 for the traffic engineer to, you know, cite in his  
20 engineering analysis.

21           MR. MATHIEU: With respect to railroads, more  
22 guidance or stuff we have to hang on our hats, the better  
23 for us to come in and say you should have this.

24           You tell the private property owner you need to  
25 have gates. Why? Because we feel it's safer. But the  
00134

1 more guidance or documentation I think the better we  
2 would get. But, of course, funding is going to be a big  
3 issue. And I think funding could be -- if funding comes  
4 from the Federal government or where ever it can be used  
5 as an incentive. Going back to the previous question,  
6 issue number two, I think what if you were either going  
7 to get agreement or close the crossing, what if we were  
8 to use funding as a way to get them to -- incentive to  
9 sign the agreement? If we were to help them, say, 50  
10 percent of the costs or something, through some type of  
11 sources, that would give them incentive to sign the  
12 agreement, so...

13           MS. CARROLL: Thank you, Ron.

14           MR. MATHIEU: And, yes, I want to repeat my answer  
15 to one of the previous questions, to treating public same  
16 as private, one of the concerns I have is for private  
17 crossings is you have a lower threshold or warning  
18 devices are lower for public where you have public used

19 private crossing for at a mall, your public usage,  
20 because it's public, someone might say we should put a  
21 passive sign, whereas a public one, you might have to use  
22 a gate. So standards might work against us. So I would  
23 want to caution against having separate standards for  
24 private crossings.

25 MS. CARROLL: Well, I guess the way -- from what I  
00135

1 was hearing from the discussion, maybe we should separate  
2 like there is now, a farm crossing is treated differently  
3 and has a different definition than a private crossing,  
4 or there is a special category of private crossing.

5 In our meeting in Fort Snelling the consensus  
6 of the group was you have to define all of the different  
7 types of private crossings to be able to categorize them  
8 in a way that makes them -- you look at the user type,  
9 the frequency of the vehicles and the trains, and to  
10 start to collect the data that you need to do a risk  
11 analysis.

12 MR. GILBERT: I think that would be a critical part  
13 of any sort of inclusion in the existing standards or  
14 guidelines or development of your own. If the document  
15 that you come up with requires Steve to put \$275,000 in  
16 warning devices at the end of his driveway, then  
17 something has gone horribly wrong. It should be based on  
18 the usage, the crossing, and the expected traffic, and I  
19 wouldn't expect warning devices -- active warning devices  
20 at the end of a driveway for a single residence, so I  
21 think that's an important distinction.

22 MS. CARROLL: Unless they get an awful lot of mail  
23 deliveries.

24 MR. PETROSSIAN: And then once you go into doing  
25 that analysis, that's the same as diagnostic for public  
00136

1 crossings.

2 MS. CARROLL: Exactly.

3 MR. GILBERT: The only benefit that may arise out of  
4 it is that you would capture the extremely low use  
5 crossings and the specialized crossings that maybe you  
6 could establish some minimum guidelines for.

7 MS. CARROLL: Right.

8 MR. GILBERT: Which you wouldn't necessarily expect  
9 on public roadways.

10 MS. CARROLL: Right.

11 Well, thank you. That was a very good  
12 discussion on that one.

13 MR. PETROSSIAN: You should have sent the questions  
14 out beforehand.

15 MS. CARROLL: You should have had railroads on one  
16 side, States on the other. We should have types.

17 Here is the next question. What if the  
18 railroads were to require all private crossing holders to  
19 obtain liability insurance?

20 MR. SCHWARTZ: Easier said than done.

21 MR. PETROSSIAN: It's a contractual agreement.

22 MS. CARROLL: It's good if you can get a contract.

23 MR. SCHWARTZ: The railroad doesn't always have that

24 the ability to require it. If the railroad is holding  
25 its title to the property at the acceptance of a property  
00137

1 owner, how could he go back to the property owner and say  
2 we demand that you have insurance, we have an easement on  
3 somebody's property for railroad right-of-way, or if we  
4 have that railroad right-of-way by means of a deed,  
5 which, in the deed has a requirement for a crossing, how  
6 does the railroad go back to the property owner and say,  
7 well, you had this by deed, but we demand that you have  
8 liability insurance when we contract for a private  
9 crossing. We routinely have that. But that's only where  
10 we have the ability to contract.

11 MS. CARROLL: Right. So is it an exception versus  
12 the rule or is it the rule versus the exception?

13 MR. SCHWARTZ: I'm not sure I can say which is  
14 which.

15 MS. CARROLL: Carol?

16 MS. HARRIS: Well, it's actually quite difficult  
17 even to get agreements where you have mutual private  
18 parties involved to bring everybody to the table to get  
19 them to sign the same agreement and they have different  
20 situations in terms of their ability or their inclination  
21 to secure liability insurance. So it's different.

22 We often have, when we're in negotiation with  
23 licensees, they will ask us where can they get this  
24 insurance. And it's -- this isn't simple or easy,  
25 either, to get those policies. Then there is quite an  
00138

1 administrative and maintenance process, just to be sure  
2 that the policy each year is reinstated.

3 So it's a big job and one that I think it's not  
4 really a one-size-fits-all.

5 MR. COTHEN: Thank you.

6 Are we through with that one?

7 MS. CARROLL: Yep.

8 MR. COTHEN: Time for a break. Let's take no more  
9 than 10 minutes so that everybody will be able to get  
10 close to an early quitting day, hopefully.

11 (Recess taken.)

12 MS. CARROLL: We're going to move on now to question  
13 number six. If I could have everybody come back and join  
14 us, that would be wonderful.

15 What if a Federal agency, FRA, established a  
16 process of working the creation, evaluation and  
17 improvement of private crossings, it's a little bit  
18 different than setting standards and guidance for what  
19 you put there, criteria for creation, evaluation, and  
20 upgrades?

21 MR. GILBERT: That sounds like a combination of  
22 requiring an agreement and setting up guidelines and  
23 standards. I think it's a combination of question two  
24 and four.

25 MS. CARROLL: So is that a good thing or bad thing?  
00139

1 MR. SCHWARTZ: Are you talking about something that  
2 would apply only to the creation of new crossings or

3 would it apply to existing crossings as well?

4 MS. CARROLL: Well, you can take it by subcategory  
5 so we can talk about it, just creation or we can talk  
6 about just evaluation of those crossings, either by  
7 diagnostic or change of views or you can talk about  
8 improvements such as standard guidance, performance  
9 guidance, a body of work.

10 MR. PETROSSIAN: I guess the question is does FRA or  
11 any other Federal agency have a process in governing the  
12 creation or evaluation from a public crossing?

13 MS. CARROLL: Good question.

14 MR. COTHEN: Got us there.

15 MS. CARROLL: So it will be retrofit, we'll do prior  
16 crossings first and then work backwards?

17 MR. CATES: From the perspective of CalTrans, our  
18 only authority is one where we're using the Federal  
19 Section 130 funds and then we follow the regulatory  
20 process and guidelines set forth for that program. But  
21 other than that, we don't have any authority over any of  
22 that creation evaluation or improvement of any crossing  
23 unless we're using those Federal funds.

24 MR. COTHEN: Let me just clarify that there is  
25 public participation, clearly, with respect to public  
00140

1 roadways, and it doesn't have to be at the Federal level,  
2 it can be at the State or local level, county, city,  
3 State of California, the California PUC.

4 We're thinking about the rest of the nation in  
5 the absence of any public involvement in decision-making  
6 related to private crossings when the national network  
7 serves the nation as a whole and public interests at  
8 large is involved.

9 So, you know, we're not trying to transfer the  
10 template from public crossings to private crossings here  
11 in this hypothetical that we're asking.

12 What we are saying is in the absence of action  
13 at the State level, elsewhere, is there any opportunity  
14 for some helpful role from the Federal side so that the  
15 public interest in some way is considered as these  
16 crossings are created and as the uses of these crossings  
17 change?

18 MS. CARROLL: Peter?

19 MR. BURCAT: What is the formula for preemptions?  
20 It's the three ingredients you put into the pot, stir it  
21 up and out comes preemptions, and that's not going to  
22 improve the safety at these private crossings.

23 MR. PETROSSIAN: I think the other way to do it is  
24 how the FTA did the safety oversight of light rail  
25 transit, for instance.

00141

1 MS. CARROLL: State safety oversight?

2 MR. PETROSSIAN: What you could do is say if a State  
3 does not have rules, you require them to adopt the rules,  
4 and this is what, you know, if it has told every State  
5 that when you have a rail transit agency in your State,  
6 you have to have a State safety oversight agency so you  
7 could establish -- you know, require the States to

8 establish a private crossing safety oversight within the  
9 State system and then create, evaluate and improve  
10 private crossings.

11 MS. CARROLL: Okay. Thank you.

12 Moving along, what if question number seven,  
13 the ultimate responsibility for safety at private  
14 crossings resided with State agencies? I think that's  
15 what I've heard all day.

16 MR. GILBERT: I think we're in agreement with that.

17 MS. CARROLL: California is in agreement.

18 How about Washington State?

19 MR. BOSTON: Oh, yeah.

20 MR. CATES: I'll disagree with Vahak.

21 MR. PETROSSIAN: We rarely disagree. This is the  
22 first time.

23 MS. CARROLL: I'm surprised you're sitting next to  
24 each other.

25 Did you have a comment?

00142

1 MR. CATES: We're sitting next to LeeAnn Dickson  
2 from the FRA.

3 MS. CARROLL: Community.

4 MR. CATES: Yeah. This isn't agreement or  
5 disagreement because I think you've already discussed  
6 you've got lots of different situations in different  
7 places. But I think one thing where the Federal  
8 government has played an important role has been in  
9 adopting a policy in favor of minimization of crossings  
10 and in favor of encouraging a corridor approach,  
11 encouraging a consolidation closure of crossings.

12 I would be very unhappy if they were to retreat  
13 from that. And I think that that certainly should  
14 encompass private crossings and that there may be some  
15 opportunities to add some additional teeth, to add some  
16 incentives and some additional tools that railroads or  
17 States could use to promote those goals.

18 MS. CARROLL: Did I hear you correctly? Additional  
19 guidance on incentives that could be used?

20 MR. CATES: Yes, incentives.

21 MS. CARROLL: Tools?

22 MR. CATES: And even monetary incentives could be  
23 quite helpful.

24 MS. CARROLL: I know in our meeting in Raleigh,  
25 North Carolina, they had Section 1010 funding and they

00143

1 did a corridor approach and did a whole piece on the high  
2 speed rail related to private crossings, so they had  
3 money for improvements, and that is one thing that they  
4 have collected is incentives to close crossings, both  
5 public and private, and to actually negotiate upgrading  
6 crossings nearby to close some private crossings. So we  
7 do have some information from North Carolina as a  
8 particular State, right.

9 MR. JINBACHIAN: Carol mentioned, I think, the  
10 action plan is that what you were referring to earlier,  
11 Carol, and what that reminded me of, when we're adopting  
12 our General 75 (D), in there we had language saying in

13 support of the Federal policy or reducing crossings,  
14 we're adopting the policy of reducing mainline crossings  
15 in California. So if they're addressing Federal policy  
16 like this, it would help us to say we're doing what the  
17 Feds are recommending.

18 MS. CARROLL: Right. Okay.

19 Any other comments?

20 MR. MATHIEU: Sounds like a collaborative effort,  
21 Federal and State guidelines or guidance documents.

22 MS. CARROLL: Public, private partnerships is what  
23 we like to try and support.

24 Anybody else on this question?

25 MR. BOSTON: Is that standard procedure of class one  
00144

1 railroads? I know in Washington State PNSF private  
2 crossings they will offer a landowner, you know, money to  
3 close a crossing.

4 Is that pretty much standard across the nation?

5 MS. CARROLL: Um, from our North Carolina  
6 experience, they've had many different incentives they've  
7 used. They've bought property, they've provided  
8 alternate access to a crossing that has a higher level,  
9 maybe a public crossing that has a higher level of  
10 warning device application. So there are various  
11 incentives that they've used from that particular State.

12 Anybody else?

13 Okay. Question number 8. I can tell you just  
14 can't wait.

15 What if the ultimate responsibility for safety  
16 at private crossings resided with the railroads?

17 Carol.

18 MS. HARRIS: I do need to go on record with this  
19 because we have no ability in many cases even to know who  
20 is using that private crossing. We can't regulate the  
21 behavior of the motorists except to the extent that we're  
22 able to get agreements that have some teeth, and so we  
23 are not familiar with the vehicular use of crossings or  
24 with the engineering of crossing roads or all of those  
25 things that are really unrelated to the expertise and the  
00145

1 traditional problems of railroads, and we have no ability  
2 to control them. So it would be, we think, inappropriate  
3 to proceed in this vein.

4 MS. CARROLL: I would agree with that.

5 MS. RANDOLPH: Many times you'll have trucks and  
6 other vehicles using the right-of-way following the  
7 track, not necessarily on the crossing, close to the  
8 private crossing. As Carol said, the railroad doesn't  
9 even know they're out. There's lots of times they're  
10 supposed to notify the railroad, but sometimes they  
11 don't, and they don't even know they're out there.

12 If you put the onus on the railroad to be  
13 completely responsible for a private crossing, that's a  
14 big burden to chew off.

15 MS. CARROLL: Okay. I guess that's a consensus.

16 MS. RANDOLPH: Trespassing.

17 MS. CARROLL: Moving on to number 9. What if a

18 private crossing were categorized based on traffic levels  
19 and types of use?

20 We talked a little bit about this in regard to  
21 the Manual of Uniform Traffic Control Devices and the  
22 AASHTO green book and also AREMA.

23 MR. JINBACHIAN: Should I assume that you're  
24 referring to vehicular traffic and type of use or both?

25 MS. CARROLL: Both rail and highway and pedestrian.  
00146

1 This stemmed from our discussions in Minnesota.

2 MR. JINBACHIAN: Do you mean -- when you say  
3 categorized, do you mean different categories of private  
4 crossings whether it warrants this or whether it's  
5 categorized as private or public?

6 MS. CARROLL: Both. I mean, I think in one of our  
7 discussions internally after the meeting in Minnesota,  
8 and possibly after North Carolina, we looked at a matrix  
9 approach that was maybe three or four dimensional as a  
10 categorization of private crossings. We had that  
11 discussion.

12 MR. PETROSSIAN: I don't see the difference between  
13 this and public crossings in terms of the diagnostics  
14 required for the upgrades. But let's say you categorize  
15 and you say this category requires this minimum warning  
16 device. Who's going to pay for it?

17 MR. CATES: Is this like a warrant, like if it has  
18 20,000 cars a day, you put --

19 MS. CARROLL: It could be considered public use.  
20 Maybe it then goes into a public category.

21 MR. BOLES: What happens if it has 19,000 cars?  
22 It's really hard to come up with a threshold and make it  
23 stick.

24 MS. CARROLL: From Minnesota BRS stood up and said  
25 more than one user, it's public.

00147

1 MR. BOLES: Two users.

2 MS. CARROLL: The brotherhood of railroad signalman  
3 in their testimony.

4 MR. JINBACHIAN: If it's less than one user, you  
5 don't need a crossing, so...

6 MS. CARROLL: Well, how do you determine that? And  
7 that's what we're going to try to do in New Orleans and  
8 think about data.

9 Okay. Any other discussion on this one?

10 Yes, Carol?

11 MS. HARRIS: Well, I think it can be useful for  
12 different purposes to make distinctions between  
13 crossings, different types of private crossings, but I  
14 think those distinctions need to be made in light of what  
15 the activity is, whatever it is that you're going to be  
16 doing with your rule or your guidance or whatever it is.  
17 It needs to be tied to something and not just occurs as  
18 kind of a free form exercise. It seems to me it needs to  
19 be in relation with certain goals, objectives, regulations.

20 MS. CARROLL: So it has to be tied to something?

21 MS. HARRIS: Yes.

22 MS. CARROLL: Dave?



23 MR. PETERSON: Two comments on this. The first one  
24 is I was in Minnesota and heard the BRS make that  
25 comment, and one thing I would like to point out to the  
00148

1 FRA is frequently the railroads, where we have two  
2 farmers that have crossings that are within, just for  
3 example, a hundred and fifty feet apart from one another,  
4 on either side of a fence we will end up putting one  
5 crossing right at the fence, like that serves two  
6 property owners. We eliminated one unnecessary crossing,  
7 and it's still a private crossing. It still basically  
8 hasn't changed the character. It's a farm crossing. And  
9 I would hate to see some sort of recommendation come out  
10 that would basically hinder the consolidation of  
11 unnecessary crossings because now, suddenly, the only way  
12 we can do that is to convert something like that into a  
13 public roadway.

14 The next thing I just wanted to point out about  
15 generating traffic levels. As Steve mentioned just a  
16 minute ago, it's very difficult getting accurate traffic  
17 counts on our public crossings across the United States.  
18 And on private crossings it is going to be next to  
19 impossible to really determine traffic counts. You have  
20 to have a hard roadway surface if you're even going to  
21 use the type of equipment that can count vehicular  
22 traffic.

23 Many of these private crossings are on dirt  
24 paths or gravel roads and you can't put a traffic count  
25 on something like that.

00149

1 The other thing is some of these private  
2 crossings may go nine months out of the year with zero  
3 traffic counts, and then during harvest time there may be  
4 a very brief period of intensive traffic, high traffic  
5 intensity.

6 Well, you know, as all traffic engineers that  
7 will be in this room will tell you is that you don't base  
8 traffic counts off your peak volumes. It's based over an  
9 annualized volume.

10 So how do you do this?

11 I just want to caution the FRA, if you're  
12 dealing with traffic levels, the very best you could hope  
13 for is getting a shotgun by someone just making a wild  
14 guess as to what the traffic levels are from vehicular  
15 traffic at these crossings, and it could prove very  
16 expensive to try to ascertain what that traffic level is.

17 My company, alone, has 11,000 private crossings  
18 and going tracking, trying to come up with some sort of  
19 level of traffic on those will be quite a challenge.

20 MS. CARROLL: Thank you, Dave.

21 Our next meeting in New Orleans is going to  
22 discuss data, but we always like to have opinions from  
23 our previous groups of participants to help us out for  
24 the next one.

25 Any other thoughts on this one?

00150

1 Here's where you get to ask a question.

2 Anybody have a burning question?  
3 MR. MATHIEU: That's number 10.  
4 MS. CARROLL: I have one, if you don't have any.  
5 I think we've stretched you quite a lot today.  
6 My question would be regarding our next meeting  
7 which is going to be on data and data issues.  
8 What would it take to collect the data that's  
9 necessary to support a risk analysis, to support the  
10 categorization of private crossings in a supportive way,  
11 and what mechanisms would you think of to come up with  
12 those kinds of processes?  
13 MR. CATES: How would you do that? We've got 4500  
14 crossings like this. I'm going to reference the FRA  
15 crossing database. This is some data I pulled off of  
16 your website last week. Right across the end of the Bay  
17 Bridge over here, Contra Costa County, we have 280  
18 private crossings, 144 public crossings.  
19 Now, cities and counties in Contra Costa County  
20 have a hard time updating vehicular traffic counts on  
21 public crossings. There is almost twice as many private  
22 crossings in that county.  
23 Where are you going to get the folks to do this  
24 sort of thing? I mean, it's just, to me, an incredible  
25 challenge.

00151

1 MR. COTHEN: I shouldn't say this, unfunded  
2 mandates.  
3 MR. CATES: Well, we have that in California State  
4 law. If we impose a requirement on a Municipal  
5 government, our State Constitution requires the State  
6 government to pay for that mandate. So, I mean, at the  
7 State level we would have a very difficult time doing  
8 that.  
9 MR. COTHEN: And I think when we get to a question  
10 like this, and it's obviously a very difficult one and it  
11 has recurred in the discussions that we've had to this  
12 point, how do you simplify that problem; right?  
13 MS. CARROLL: That's correct.  
14 MR. COTHEN: We know we can't get traffic counts on  
15 4500 private crossings.  
16 MR. CATES: We can't get them on 77 public  
17 crossings.  
18 MR. COTHEN: If we got them in three years, they  
19 would be out-of-date; right?  
20 So, the question becomes: How do you simplify  
21 the problem?  
22 I don't know. Do you use survey forms with  
23 locomotive engineers? Is there a satellite imaging firm  
24 that's got something that will serve? I don't know what.  
25 Do we decide that we really want to take data only on

00152

1 commercial and industrial crossings? How do we get to  
2 the point where we can be meaningful about this?  
3 And we talked earlier about the need for the  
4 engineer who goes out there, and nobody is going out  
5 there because there is no engineer from a public  
6 authority to go out there in States other than

7 California? But in California you're going to go out  
8 there and make a determination about what is cost  
9 effective. How do you know what's cost effective if  
10 there are not any national level studies, let alone State  
11 level studies.

12 And we know we have very few data points here,  
13 so we've got to claim every one we possibly can so long  
14 as we can maintain a reasonable quality.

15 As we move forward towards the end of the  
16 discussion, if you can help us think about how we  
17 simplify the problem and maybe get a strategy to improve  
18 what we know so we can do better going forward.

19 MR. JINBACHIAN: Speaking of funding mandates, have  
20 you considered establishing a new funding similar to  
21 Section 130, saying all rail lines that are carrying  
22 passenger rails going above "X" miles an hour should have  
23 warning devices, then you start with those, then you have  
24 the money available for operating these warnings devices.  
25 And similar to the Section 130 program through the States  
00153

1 where you go ahead as crossings and saying we're going to  
2 start with double tracks, high speed passenger rail, and  
3 we'll start updating those, maybe something like that.

4 MS. CARROLL: Grady, do you want to talk about track  
5 standards? They do include public and the private.

6 MR. COTHEN: We have requirements above 110 miles an  
7 hour that crossings be barricaded, and above 125 miles an  
8 hour that you can't -- there is no way to physically  
9 cross -- not barricade it, but that there be effective  
10 restraint for vehicles, typical vehicles operating at  
11 typical speeds. And there is a requirement for  
12 submission of a plan for that in the safe standards. And  
13 above 125 miles an hour crossings are forbidden. And  
14 then we have discussed in the past how it makes sense,  
15 certainly, that it shows you how modest our expectations  
16 are that above 79 miles an hour that each of the public  
17 crossings certainly should have a minimum of flashing  
18 lights and gates, and that's in the guideline document,  
19 not in a regulation.

20 Truthfully, when we started talking about these  
21 things in the early '90s, people said you're nuts, you'll  
22 never be able to do that. There is a high speed rail  
23 lobby, et cetera, et cetera. And everybody took their  
24 medicine very easily to the extent that we wondered why  
25 in the world we weren't more ambitious. And it's because  
00154

1 from a cost benefit standpoint we think the returns are  
2 there and more can be done.

3 So I think that this is a difficult problem for  
4 the government agency at this stage in our history  
5 because, let's face it, the categorical programs are not  
6 in favor, earmarks are.

7 And so where do you go with it from a public  
8 policy standpoint?

9 I think that one of the things that we're  
10 trying to consider with your help is who benefits if we  
11 have a national passenger rail policy?

12           We know among those who will benefit will be  
13 those who use the passenger rail system. And if we have  
14 State funded passenger rail, we know among those who will  
15 benefit are the passengers. And in that service,  
16 commuter rail, as well.

17           The problem on the freight side is a little  
18 more complicated without public funding, and certainly,  
19 the user of the crossing benefits substantially on the  
20 other hand when the railroad changes its operations.  
21 Maybe the equation shifts a little bit and we've seen  
22 with respect to public crossings, the STB and  
23 environmental proceedings ordering railroads to engage in  
24 transactions that shift traffic to contribute to crossing  
25 improvements.

00155

1           Against that fairly complex background, and I  
2 guess I could go on a little longer, but you all don't  
3 want to listen to it and I don't want to bore you with  
4 it, we're trying to look at this very specialized and  
5 difficult problem.

6           And I think at this point we're saying let's  
7 not take any options off the table. At the same time,  
8 let's not assume that we're going to be able to take a  
9 particular block of resources, whether they're the  
10 railroad's resources or the landlocked property owner's  
11 resources or the Federal taxpayer's resources, throw them  
12 at the problem and have the problem resolved.

13           Solutions are probably fairly subtle, may  
14 involve contributions from a variety of sources. If we  
15 can figure out exactly what the problem is, how to target  
16 the resources to do the most good and who needs to  
17 participate in the solution, then we'll have made some  
18 headway.

19           Steve.

20           MR. CATES: Kind of some thoughts and a suggestion  
21 on that. When one of my trains is involved in a grade  
22 crossing accident, damage usually runs anywhere from  
23 about 15 to 2 or \$300,000 to the locomotive and usually  
24 the second -- the first car in the train.

25           We also wind up with a delay.

00156

1           So when we're on a mainline railroad, either  
2 single or double track, we're usually hanging up traffic  
3 put through that railroad line.

4           Same thing happens to us when the freight  
5 railroad has a grade crossing accident. Usually takes an  
6 hour to three hours to clear that. I'm not sure what the  
7 requirements are on freight railroads, but whenever we've  
8 been involved in a grade crossing accident, I have been  
9 on the train, I have had to assist the conductor on both  
10 the walk-through inspection and roll-by inspection. That  
11 usually takes 30 minutes or so.

12           Um, so you have a substantial delay in traffic.  
13 You're hanging up trains for miles. CalTrans has a  
14 contract, I don't know, or traffic people who do traffic  
15 counts where they hire a consulting firm to go out and do  
16 some traffic counts for local jurisdictions who fail to

17 submit their traffic counts to CalTrans under the Federal  
18 requirement. And this has probably been a year or more  
19 since I talked to the folks that were involved in that  
20 contract, but they told me it's probably around \$150.00  
21 per traffic count for a roadway section. So if we took a  
22 look at, let's say, main line private crossings, I'm  
23 going to assume, just make a wild guess, there is 1500  
24 private crossings on main line railroad tracks in  
25 California at \$150 to get a traffic count at those

00157

1 crossings, that's \$225,000. That's about what it costs  
2 for one accident. That's from a risk analysis. You  
3 know, that's not a lot of money to spend compared to what  
4 it costs if you avoid one accident eventually by  
5 collecting this data. So as soon as the FRA provides us  
6 with \$225,000.

7 But, I mean, that's a way to do this. We hire  
8 a private company to do that where we don't get good  
9 traffic counts from cities and counties, that's not very  
10 expensive.

11 MR. GILBERT: I think Anya's question was more  
12 global.

13 Were you talking about identifying the  
14 locations and presence of crossings and getting traffic  
15 counts and train counts? Is it the overall data  
16 collection that you were inquiring about?

17 MS. CARROLL: Well, being involved with grade  
18 crossing safety research for numerous years now, I have a  
19 sensitivity toward data issues and data quality issues.  
20 And I think there are techniques and tools that the  
21 States and the railroads are using that could easily tap  
22 into a source to collect this data, inspections, track  
23 inspections. You can get GPS locations of private  
24 crossings, public crossings. I mean, if you have an  
25 accident and you're out there, you collect certain

00158

1 amounts of data, whether it be a public or a private  
2 crossing.

3 I'm trying to open up things out of the box of  
4 ways. GIS platforms, I know the railroads are using GIS  
5 platforms for their networks to stimulate mobility and  
6 productivity on the railroads.

7 Could you use that kind of platform and layer  
8 that with your road network and maybe extrapolate  
9 whatever road data is there for a nearby private  
10 crossing?

11 I'm just trying to stimulate other possible  
12 ways we could gather data that may be not in use now.

13 And this is -- California is a wonderful forum  
14 to do this because you are so pro-active with the way you  
15 approach both public and private crossings.

16 MR. CATES: Yeah, we've just entered into a  
17 cooperative contract with the NSF in regard to other  
18 track improvements on the San Joaquin Valley line, and  
19 they're working with a company -- I don't know exactly  
20 what it's called or how it works, but they put a GPS unit  
21 on a train, on one of our rail cars, and then they have a

22 plane that flies over and takes area photos and does GPS  
23 coordination. And from that we'll be able to identify  
24 all public and private crossings through the aerial  
25 survey.

00159

1 So, that's -- I don't remember what the cost  
2 is.

3 MS. CARROLL: Except for the deeded ones that don't  
4 exist yet.

5 MR. CATES: And some of them, visually, you're not  
6 going to be able to identify very clearly, even with a  
7 good aerial photo. But there is different ways of doing  
8 these things. And there is a lot of information that's  
9 available. And as these GIS systems become more readily  
10 available, it's easier to do things like this.

11 MS. CARROLL: Anybody else have a --

12 MR. PETERSON: As far as GPS?

13 MS. CARROLL: GIS.

14 MR. PETERSON: Tie it in with what we're talking  
15 about that will work on main line crossings, but we've  
16 got a number of these private crossings that are off the  
17 main line on industrial leads or intra plant that's not  
18 going to even address any of those.

19 MR. CATES: You'd never get like --

20 MR. PETERSON: And also, on intra plant crossings,  
21 typically there is one D.O.T. number that covers the  
22 whole plant, and the plant, itself, may have dozens of  
23 crossings within it. And that is in accordance with  
24 FRA's guidelines for assigning D.O.T. numbers.

25 MS. CARROLL: Well, should we consider intra plant

00160

1 crossings as a separate entity or is that actually within  
2 your purview of the industry?

3 MR. PETERSON: Frequently those crossings are on  
4 privately owned tracks within the plant, and as a  
5 railroad employee trying to get into some of those plants  
6 to look at crossing issues, I can tell you, I,  
7 personally, had challenges getting into -- especially if  
8 it's like a chemical plant. You just don't know what's  
9 back up in there, and they really don't want you to know.

10 MS. CARROLL: Okay. Well, maybe we should take  
11 Steve's idea and look at main line private crossings to  
12 start with.

13 MR. PETERSON: That's from a collision standpoint, I  
14 have not done any analysis at all, but I would venture to  
15 say the preponderance of the incidents that we're looking  
16 at on these private crossings are main lines. It's  
17 certainly where the greater severity of any incidents  
18 would be, would be on the main lines as opposed to the  
19 industrial leads.

20 MS. CARROLL: Okay. Thanks, Dave.

21 Anybody else have a thought?

22 Yes, Bob?

23 MR. BOSTON: I had a question for Steve.

24 When he was talking about the costs of a  
25 collision, like at private crossings, is there a formula

00161

1 that you use for economic delay, like if a collision  
2 delays so many freight trains or passenger trains, do  
3 they have a formula to figure out how much that is  
4 costing railroads or costing --

5 MR. CATES: We don't. I guess we could take our  
6 ticket price and divide it by the minutes of travel and  
7 come up with something. Or, as an example, at this  
8 grade crossing where we hit the dump truck, that train,  
9 it was annulled. The leading wheels on the truck of the  
10 cab car hit the ground. We had 160 passengers on there.  
11 If you figure \$10.00 an hour, something, and times 160  
12 passengers times half a dozen hours.

13 And we had 15 people that -- well, I think we  
14 had 18 people went to the hospital, three crew members  
15 and about 15 passengers.

16 And you figure, what, about 700 bucks per  
17 ambulance. There is a way you could figure those things  
18 out. And I'm sure insurance companies would have ways of  
19 doing that.

20 But, to us, it's a good will sort of thing.  
21 You have folks that aren't ever going to ride the train  
22 again, so it impacts us from our ability to provide an  
23 alternate mode of transportation other than hopping in  
24 your car.

25 MR. BOSTON: Does anybody from the railroads have a  
00162

1 formula or a freight train being delayed an hour, is  
2 there a cost analysis that they did or --

3 MR. PETERSON: It can be calculated. It depends on  
4 the type of train that is delayed whether it's a unit  
5 train or, say, if it's a local.

6 Switching local, there is quite a number of  
7 variables that go into it. We do have a group within the  
8 railroad that can do that kind of analysis. And I'm sure  
9 the other railroads have done the same thing.

10 MR. BOSTON: I can imagine the cost is quite high.

11 MS. CARROLL: Okay. Well, I'm done with my portion  
12 of this afternoon's session.

13 I would like to welcome you to Washington for  
14 the TRB annual meeting, if you can make it. And if you  
15 happen to be there, the Highway Rail Crossing, Grade  
16 Crossing Committee would love to see you at both their  
17 technical paper sessions, at their session on safety of  
18 private crossings, and also our committee meeting.

19 So, if you're able and willing to be in  
20 Washington, we would love to see you.

21 Thanks very much.

22 MR. BURCAT: What's that date?

23 MS. CARROLL: January 21st through January 25, 2007.

24 And you can go up to the TRB website. It's --  
25 I think it's WWW.DTRB.ORG. And the Highway Grade Rail

00163

1 Crossing Committee's number is AHB 60.

2 MR. COTHEN: Thank you for leading that discussion,  
3 and Miriam, as well.

4 But tremendous thanks to everybody who has been  
5 in attendance today and has taken the opportunity to

6 speak on the record or just conduct a conversation on the  
7 side about the subject matter. It's very helpful to us  
8 to hear from a group so actively engaged in a variety of  
9 ways in this issue.

10 I do want to encourage you, related to the next  
11 topic of discussion, as Anya said, will be data needs.  
12 We need data to evaluate and develop strategies that may  
13 be helpful for reducing risk at private highway grade  
14 rail crossings.

15 I think, clearly, it would be helpful to all of  
16 us to have data that's more current to target existing  
17 programs, both public and private, whether it's a  
18 railroad's effort to get an agreement or State agency's  
19 effort to improve service and safety on a passenger rail  
20 line, or whatever the need might be.

21 Certainly, having the data available is going  
22 to be helpful.

23 And then, if, at some point, Federal Railroad  
24 Administration or some other body crafts recommended or  
25 required standards and/or processes, certainly, you need  
00164

1 to have good data to undergo that kind of approach.

2 Cliff, any final words for us?

3 MR. EBY: Administrative Board, and I thank you for  
4 your active participation today.

5 From my standpoint, as a first-time attendee,  
6 it was a very informative session.

7 I think I can confirm four things from my  
8 standpoint about private grade crossings. One: The  
9 complexity of the problem; two: The diversity of it;  
10 three: California's pro-active and progressive approach  
11 to grade crossings. And that there is really no oleo  
12 solution here. If you don't know what oleo solution is,  
13 one that you spread around, the same solution everywhere.

14 So thank you for your participation. And I  
15 hope to see you in New Orleans.

16 MR. COTHEN: We're adjourned.

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18  
19  
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21  
22  
23  
24  
25



1 UNITED STATES DEPARTMENT OF TRANSPORTATION

2 FEDERAL RAILROAD ADMINISTRATION

3

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6

7 SAFETY AT PRIVATE HIGHWAY-

8 RAIL GRADE CROSSINGS

9 PUBLIC MEETING

10 Chateau Sonesta Hotel

11 800 Iberville Street

12 New Orleans, Louisiana 70112

13 Wednesday, December 6, 2006

14 9:30 a.m. - 5:00 p.m.

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1 PANEL:

2 GRADY C. COTHEN, JR., Chair  
Acting Associate Administrator for Safety

3 USDT, FRA

4 MARK H. TESSLER  
Assistant Chief Counsel for Safety

5 USDT, FRA

6 RONALD E. RIES  
Staff Director

7 USDT, FRA

8 MIRIAM KLOEPPEL  
Operations Research Analyst

9 USDT, FRA

10 ANYA A. CARROLL  
Principal Investigator

11 USDT Volpe Center

12 ...oOo...

13 Introductory Agenda:

14 MARK TESSLER  
Meeting Format and Rules of Conduct

15

16 RONALD RIES  
Safety Briefing

17 RICHARD L. SAVOIE, P.E.  
LA DOTD

18 Welcome address

19 MIRIAM KLOEPPEL  
Introduction of Topics

20 to be Covered

21 ...oOO...

22 Presentations and Statements:

23 BETSEY TRAMONTE  
Operation Lifesaver

24 Louisiana

25

1 RICHARD BERTEL  
Chairman and CEO  
2 Rio Grande Pacific Corporation

3 RICHARD CAMPBELL  
President  
4 Railroad Controls Limited

5 BEN B. SAUNDERS  
Davis & Saunders, PLC  
6 American Association  
of Trial Lawyers

7  
JOHN VAN MOL  
8 Farmer

9 ...oOo...

10 Discussion:

11 MIRIAM KLOEPPPEL  
Discussion Moderator  
12 Identification of  
needed data

13  
ANYA CARROLL  
14 Discussion Moderator  
Methods of gathering  
15 data

16 ...oOo...

17

18

19

20

21

22

23

24

25

1 OTHER ATTENDEES (not a complete list):

2 W. L. (BILL) BARRINGER, JR.  
3 Director Grade Crossing Safety]  
4 Norfolk Southern Corporation

4 WILLIAM M. BROWDER  
5 Director of Operations  
6 Association of American Railroads

6 DAVID A. BURLESON  
7 General Manager  
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20 SHANE WHITEMORE  
Director  
21 CSX Transportation

22  
23  
24  
25

1 P R O C E E D I N G S:

2 MR. COTHEN: Good morning. This is the  
3 Federal Railroad Administration's Public  
4 Conference on Safety at Highway-Rail Crossings.  
5 You probably figured out from the signs out there  
6 there's a population of individuals in here who  
7 are interested in railroads and crossing safety,  
8 individuals in the communities. The first thing  
9 we always like to do at our meetings is a safety  
10 briefing. I'll ask Ron Ries, who is our staff  
11 director for highway-rail crossings, to do that  
12 briefing.

13 MR. RIES: Good morning. It's good to see  
14 everybody here. We appreciate your presence. We  
15 don't anticipate any problems, but just in case  
16 we do, we want to make sure everyone's aware of  
17 how to exit the building safely. The nearest  
18 exit is out the doors to the right. You go  
19 across Canal Street, and we'll meet over there.

20 In case we need emergency responders  
21 to come, we've been directed the best way to do  
22 it is to use the house phone and call the -- dial  
23 0 to call the hotel operator, and they will call  
24 911 and give them directions. The house phones  
25 are in the -- built into the walls, so when you

1 see the white rectangular box, you open up that  
2 door, there's phones in there.

3 Do we have any folks that are CPR  
4 certified? We are in good shape. Hopefully  
5 nothing will happen, but we have someone here to  
6 take care of it. Are there any folks that do not  
7 want to be resuscitated? And we're not going to  
8 take a vote. You can't nominate people.

9 The washroom facilities, if you exit  
10 the room, take a left, go down the hall, take  
11 another left, and right when you get to the end  
12 of that hallway, it's just on the opposite wall  
13 on the right side.

14 I think that takes -- we do have some  
15 cards for the stenographer, so if you walk over  
16 there, don't trip over those hazards.

17 MR. COTHEN: Thank you, Ron. We'll do  
18 introductions next. My name's Grady Cothen,  
19 G-R-A-D-Y, C-O-T-H-E-N, and I'm Deputy Associate  
20 Administrator for Safety Standards and Program  
21 Development at the Federal Railroad  
22 Administration. That's a long bureaucratic title  
23 that means that I do rule-making and policy  
24 development for the FRA in the safety area.

25 Our counsel for this proceeding, from

1 whom you'll hear in a little while, is Mark  
2 Tessler. He's Assistant Chief Counsel for Safety  
3 at FRA. I'm going to ask Ron Ries to introduce  
4 others from the Federal Railroad Administration  
5 who are present here from his staff at Volpe  
6 Center, and also colleagues from the Federal  
7 Highway Administration.

8 MR. RIES: Thank you. The Federal  
9 Railroad Administration has eighteen people or  
10 positions that work full-time in grade-crossing  
11 safety and trespass prevention across the  
12 country. We are very fortunate we have four here  
13 today from Region 5, which encompasses Louisiana.  
14 Carolyn Cook? Carolyn, if you'll just identify  
15 yourself.

16 She just stepped out? Oh, here's  
17 Carolyn coming in, right on cue. Also Jerry  
18 Martin is here, as well as Richard Washington.  
19 Richard is our newest grade-crossing manager.  
20 And from Region 3, to the east, Tom Drake is here  
21 as well. So we appreciate their being here.

22 Also from Washington, D.C., is Miriam  
23 Kloeppel, who we'll be hearing making  
24 presentations during this. Miriam is an  
25 operation research analyst that works with grade-



1 crossing safety.

2                   From the Volpe National Transportation  
3 Center -- if you're not familiar with Volpe, they  
4 do a lot of the research for FRA and also the  
5 department as a whole. They're the ones who have  
6 been putting together these series of workshops,  
7 and we appreciate all the good work they're  
8 doing. Anya Carroll is here. We have Steve Peck  
9 out in back. Pearl Garcia. I think Pearl's out  
10 of the table, and Mirna Gustave also is out on  
11 the table.

12                   And we work very closely with our DOT  
13 partners. We have two representatives from the  
14 Federal Highway Administration here for the  
15 Louisiana Division: Mary Stringfellow and Seve  
16 Cerna (phonetic).

17                   So we appreciate all that, and we look  
18 forward to a very productive meeting.

19                   MR. COTHEN: Thank you, Ron. What we've  
20 tried to do with the series of conferences is to  
21 elicit as much input as we could regionally.  
22 Many of you know that we started this road show  
23 in Minnesota and moved to North Carolina and  
24 California and now to New Orleans, and we'll  
25 finish it up in Syracuse in -- we believe in

1 February.

2                   Our effort has been, as I said, to  
3 elicit regional input that gives us a bigger  
4 picture, a more complete picture, a picture with  
5 finer resolution of the dimensions of the  
6 private-crossing challenge across the country.

7                   We've been very pleased to be joined  
8 in hosting these meetings by State Departments of  
9 Transportation and the Public Utilities  
10 Commissions who work on highway-rail crossing  
11 safety issues every day and whose role is key to  
12 the solution of crossing safety -- resolution of  
13 crossing-safety issues.

14                   We're very pleased that Louisiana  
15 Department of Transportation has recently  
16 championed the creation of the first state-level  
17 action plan for highway-rail crossing safety,  
18 taking the model of the Secretary's 1994 and 2004  
19 action plans at the national level. That has  
20 been a very productive activity, and I know that  
21 there's a lot happening in Louisiana as a result  
22 of the Department of Transportation in the  
23 legislature and across the state.

24                   Our topic today presents a uniquely  
25 difficult one for all of us because of the fact

1 that we don't have public roadways involved, but  
2 we're still here together to think about these  
3 issues and discuss them. We're very happy to  
4 have to welcome us to New Orleans, Louisiana,  
5 Richard Savoie -- I know I can get it -- Deputy  
6 Chief Engineer from Louisiana Department of  
7 Transportation and Development. So, Richard, if  
8 you'll come forward and bring greetings, please,  
9 sir.

10 MR. SAVOIE: Thank you, Grady. It's a  
11 pleasure to be here this morning. I was asked to  
12 do this and I think one of the reasons was maybe  
13 my accent. I'm not sure. But if any of y'all  
14 have trouble understanding anything I said today,  
15 there's plenty of folks from DOTD that may be  
16 able to interpret some of the things I did say  
17 today.

18 But it is a pleasure to be in New  
19 Orleans. As a matter of fact, I was telling  
20 somebody it's my first time back since the storm,  
21 so I didn't know what to expect. But the traffic  
22 was still here and there was still some clutter  
23 in the streets -- I'll call it clutter. And but  
24 I saw some guys working on cleaning that stuff up  
25 this morning. But it's a pleasure to be here.

1                   Just a few things about Louisiana.  
2   Some of y'all may have read the morning  
3   newspapers or listened to the news. Louisiana is  
4   fortunate enough to have a \$2.4 billion surplus  
5   of funds, and lo and behold, the legislature  
6   says, "We don't want to come to Baton Rouge to  
7   spend it." You know, who would have ever thought  
8   that you'd have a trough full of money and nobody  
9   would want to come to town to spend it? So I  
10   think the governor will convince them that  
11   hopefully they will start on Friday.

12                   The DOTD has been actively pursuing  
13   trying to get some of those funds to do some  
14   improvements on our facilities. We've got a  
15   backlog of \$13 billion worth of needs, and so  
16   even if we got the whole 1.6, it would only knock  
17   off the top of the mountain. So she's working  
18   hard on that, and DOTD has a plan to help her to  
19   put some of that surplus into our infrastructure.

20                   Just another little thing is that  
21   DOT's undergoing a lot of changes in management,  
22   and we've addressed a whole lot of areas in the  
23   department. A lot of things are coming out.  
24   It's part of Secretary Bradberry's goals and part  
25   of the remembrance of this administration is that

1 DOTD did on to change, and one of them is  
2 reducing the DOTD staff.

3                   And one of those things is dear to my  
4 heart. You know, cutting employees is never a  
5 fun thing to do, but District 02 here in Bridge  
6 City was ravaged really hard by the storm, so  
7 some of our organizational structure has been  
8 really hurt by the storms, and DOTD has knocked  
9 back to the 5200 employees that we would have  
10 liked to have, but the Secretary has got a goal  
11 to have about 4800 staff back -- down to 4800  
12 staff by end of December.

13                   Well, right now he's going to have  
14 trouble getting up to the 4800, because all we  
15 have is about 4600, plus or minus, on board. So  
16 that's some of the things that we're undergoing,  
17 just some of the things that just -- you never  
18 understand why things are going on.

19                   Just a little bit of -- I'd like to do  
20 a little bit of chuckle before I get into the  
21 real briefing here, but I was reading this  
22 morning admission requirements are a 3.0 GPA, and  
23 an ACT score of 22 won't actually get you into  
24 LSU. So LSU is truly an institution of higher  
25 learning. We're glad to have them coming to the

1 Sugar Bowl. Maybe more citizens will be here to  
2 be able to watch the game instead of going to the  
3 Rose Bowl. But anyhow -- and hopefully the  
4 payout is the same, so they'll all be the same.

5 But one thing that really confuses me  
6 on a lighter note is lo and behold, you know, how  
7 the world is changing. And one of the things  
8 that has really perplexed me is the Nebraska  
9 football now runs the West Coast offense, so --  
10 and that has a little bit of a touch with one of  
11 the folks in the audience, a good friend of mine,  
12 my favorite fan.

13 FROM THE FLOOR: Thanks, Richard.

14 MR. SAVOIE: You're welcome. Now we get  
15 down to the serious side of why all of us are  
16 basically here. In Louisiana public crossings we  
17 also have a federal reg that says:

18 "Public roads means any road under the  
19 jurisdiction of and maintained by  
20 public authority and open to public  
21 travel is declared as public via public  
22 authority vote, resolution, or some  
23 other legal means, and the local road  
24 authority has maintained the road on  
25 both sides of the crossing over the

1 past three years."

2 Private crossings -- and I'll get further  
3 into the slides. I'll show you the numbers of  
4 each that we have. But it is a crossing where  
5 the property on both sides or at least one side  
6 of the railroad track is private property.

7 Public authority responsibility:  
8 Advance warning signs and pavement markings shall  
9 be maintained in accordance with the MUTCD, the  
10 Manual of Uniform Traffic Control Devices, at  
11 public crossings. But there's no authority at  
12 private crossings.

13 In Louisiana, as I mentioned, we have  
14 a total of 9,079 crossings. Of those, 3250 are  
15 public, 2787 are private, and since 1976, 866  
16 were closed and 2,176 have been abandoned. Of  
17 those 2787 private crossings, 1690 are to private  
18 farms. We have a lot of farm industry in  
19 Louisiana. Three hundred forty-three are at a  
20 private residence, 26 are to private recreation,  
21 678 to private industry, and 50 pedestrian.

22 We're really working on this in  
23 Louisiana. We'll talk a little bit about the  
24 budget later on. We do have a budget surplus,  
25 but it's a tough thing in our budget partition to

1 divvy out the money when it comes to railroads.  
2 But we typically rank in the top five of  
3 railroad-crossing crashes and fatalities  
4 nationwide. But as of the first half of 2006,  
5 I'm pleased to announce that Louisiana is now  
6 tenth in the nation. It's not a good thing, but  
7 we're moving in the right direction.

8                   Grade-crossing collisions usually  
9 caused by motorist error. I was reading in the  
10 newspaper this morning about accidents on  
11 highways, and the state troopers came to our  
12 defense and they said ninety-eight to ninety-nine  
13 percent is driver error.

14                   Well, the thing is, at grade  
15 crossings, look at all of this slide, how this  
16 pie chart is cut up: Did not stop, forty-nine  
17 percent. Stopped on tracks, twenty-six percent.  
18 Unfortunately, drove around the gates, twelve  
19 percent. Stopped and didn't proceed at seven,  
20 and other, six percent. So you can see from this  
21 it really tells a bleak story of what the drivers  
22 do when it comes to crossings.

23                   Grade-crossing warning devices  
24 upgrades works, but it cut the accident fatality  
25 rate by ninety-three percent. As you can see,



1 there's the passive crossings or passive  
2 locations. The rates of injury and fatality are  
3 high. Flashing lights reduces that, and when you  
4 have the gates and the signals, it really takes  
5 its toll on reducing those type of accidents.

6                   And Louisiana has a revised statute.  
7 48:390.1 was modified to give Department of  
8 Transportation authority to close existing public  
9 crossings on non-state-maintained highways. It's  
10 something we talk about frequently. We're trying  
11 to get municipalities and parishes to close some  
12 of these crossings.

13                   On the Department of Transportation  
14 closure criteria, greater than four crossings per  
15 mile in an urban area, greater than one crossing  
16 per mile in a rural area, less than 2,000  
17 vehicles per day and less than two trains per  
18 day.

19                   And then also, you know, when you want  
20 to think about it, when alternative routes are  
21 available, skewed angle crossings present  
22 hazards, curved tracks and complex crossings,  
23 those with multiple tracks switching long periods  
24 blocked: Those are the things we would like to  
25 attack.

1                   And that's basically the end of my --  
2 no. I think there's more to it than that.

3                   MR. SUAREZ: That was it.

4                   MR. SAVOIE: That was it? Okay. Let me  
5 just talk about -- I thought I had some slides  
6 about the money.

7                   MR. SUAREZ: You did, but --

8                   MR. SAVOIE: I did. Let me just back up.  
9 I just skipped over that. I had some notes.

10                   When it comes to the 9,000 total  
11 crossings, if we were to address some of this, we  
12 have a budget partition of only \$8 million  
13 annually in the railroad program, \$8 million out  
14 of a \$400 million program. That's not a whole  
15 lot of money, but the budget needs are there.

16                   Some of the issues that cause us to  
17 not be able to put up flashing signals and gates  
18 is they cost between a hundred and fifty to three  
19 hundred thousand dollars each. And as I said, if  
20 we have \$8 million per year of money in our  
21 program, it doesn't take long to suck that up.

22                   With the 1331 public crossings and  
23 passive warning locations, if we were to install  
24 gates and signals at those locations, it would  
25 cost us between two hundred to four hundred

1 million dollars. At \$8 million a year, it would  
2 take us twenty-five to fifty years to address.  
3 So that some issues there.

4                   We've talked about it. We have issues  
5 at these locations. We are working with mayors  
6 and public entities to close some of these  
7 crossings. It's a huge job. I don't want it to  
8 be said that it relies totally on Bill  
9 Shrewsberry's shoulders, because it's not just  
10 his responsibility. It has to be a mindset that  
11 we try to do ourselves. So I guess I'm kind of  
12 preaching to the choir here, but sometimes we  
13 have to hear ourselves also.

14                   So thank y'all folks for coming to New  
15 Orleans. We appreciate y'all, and spend some  
16 money here if you have some. I know it's close  
17 to Christmas. I plan to stop at the shop across  
18 the street, and hopefully not because of a safety  
19 issue, but I plan to spend a few hours in town  
20 here myself. Thank y'all for coming, and enjoy  
21 y'all's stay.

22                   MR. COTHEN: Could I get Bill Shrewsberry  
23 and Mark Suarez to stand? And if you all  
24 could -- Bill, could you just start by kind of  
25 introducing yourself and the role of your

1 personnel here?

2 MR. SHREWSBERRY: Okay. I'm Bill  
3 Shrewsberry, highway-rail safety engineer for  
4 DOTD.

5 I have been responsible working for  
6 the federal safety program for the department for  
7 years, trying to work with consolidation of  
8 railroad agreements for public projects. I've  
9 got several of my staff here.

10 Mark Suarez is our new supervisor for  
11 the railroad unit. And we've got Kim Brunte  
12 (phonetic) here, who works with me in the unit.  
13 Gretchen Ferguson is from our district office for  
14 the department, and has worked, helped us  
15 coordinate and facilitate the interaction with  
16 the railroads and negotiations with the public  
17 for her district and area of the state, and  
18 that's been very helpful. Thank you.

19 MR. COTHEN: Thank you very much.

20 MR. SUAREZ: The one thing I'd like to say  
21 is, I've supervised Bill for a little over a year  
22 now, and his group, and they are a very  
23 hardworking group. We try like crazy to do the  
24 right thing and aggressively go after things.  
25 The new law, we haven't actually used the law,

1 but it gets what we want.

2 But rather than negotiate a win-win  
3 deal with the closure program, instead of jamming  
4 it down their throat, so so far we've been pretty  
5 successful with that as opposed to forcing them  
6 to close. We work with the railroads, and the  
7 railroads are donating a little bit of money in  
8 closures, so I think it's a win-win deal as  
9 opposed to if we use the law, we're not going to  
10 give them any money.

11 I also want to introduce a couple of  
12 people, too. Betsey Tramonte is our Operation  
13 Lifesaver person for Louisiana, and she's  
14 actually putting together a venue for National  
15 Operation Lifesaver education program for  
16 drivers' ed, I believe is what it is.

17 And then we also have Karla Schiro.  
18 Karla is one of our safety -- she's in our Safety  
19 Division and she handles a lot of money on the  
20 non-railroad part, but she gets involved  
21 sometimes using other safety money to affect some  
22 railroad crossings also. She's here today  
23 representing our Safety Division. And I don't  
24 believe anybody else from DOTD is here.

25 We want to recognize Mary

1 Stringfellow, from our FHWA Baton Rouge office,  
2 and Seve Cerna (phonetic). Seve also deals with  
3 us a lot on the railroad stuff in Baton Rouge,  
4 and they're our mentors and counterparts in this  
5 area.

6                   And of all of the people that need to  
7 be recognized, Mary's taken a very strong focus  
8 and was the leader in the action plan that you  
9 referred to. Mary gets all the credit for  
10 pushing the hurdle along, and I want to  
11 compliment her for that.

12                   MR. COTHEN: Very good, Mark. Thank you  
13 so much for arranging representation at the  
14 meeting and for introducing your colleagues,  
15 including your federal colleagues on the federal  
16 highway side.

17                   This is the -- I guess I shouldn't say  
18 this, but this is the first meeting I think we've  
19 had with the Federal Highway Administration. And  
20 it matters so much from district to district what  
21 kind of personalities we have, and I think Mark  
22 has spoken well to that issue here, and we  
23 appreciate it. And I know our Federal Highway  
24 Administration colleagues are very busy people  
25 and have other fish to fry, and no fish are fried

1 better than here in New Orleans.

2 Mark Tessler, legal officer's  
3 statement, please.

4 MR. TESSLER: Thank you, Grady. As Grady  
5 stated, I'm the legal officer for the state at  
6 public meetings. The purpose of the meeting is  
7 to provide an opportunity for the public to  
8 provide information to the FRA about issues  
9 related to safety at private rail-grade  
10 crossings. I'm here to listen to you and to  
11 provide an opportunity for you to state your  
12 views on the record for review and consideration.

13 In order to provide an equal  
14 opportunity to express your views, the following  
15 procedure will be used: Anyone who wishes will  
16 be permitted to make an oral statement. Persons  
17 representing the same group may appear together.

18 At the beginning of your oral  
19 statement, please identify yourself, spell your  
20 name, and identify whether you are appearing as  
21 an individual or as a representative of an  
22 organization. It may also be helpful, if you  
23 have a business card, to provide it to the court  
24 reporter.

25 At the end of your statement,

1 representatives of FRA may ask questions in order  
2 to clarify your points made during your  
3 statement. We will then move on to the next  
4 person wishing to make an oral statement. If  
5 you'll be referring to a document in your  
6 statement or if you have a prepared statement,  
7 please provide it to me either before or after  
8 your statement so that it can be added to the  
9 public docket of this meeting.

10                   Today's meeting is being transcribed  
11 and will be part of the public docket on this  
12 issue. The transcript of this and the other  
13 public meetings in this series and all other  
14 documents related to the inquiry will be  
15 available for viewing and downloading at the  
16 Department of Transportation's Web site  
17 management -- document center, excuse me, at  
18 <http://dms.dot.gov>, and the entire docket is also  
19 available for inspection and viewing at the  
20 Department of Transportation headquarters in  
21 Washington, D.C., at 400 Seventh Street  
22 Southwest. Thank you, Grady.

23                   MR. COTHEN: Thanks, Mark. At this point  
24 in the proceedings, as some of you know, our camp  
25 followers know, because we have some folks who've



1 been to previous meetings, we ask Miriam Kloeppe  
2 to introduce the topic of the day, give us a  
3 little background and perspective and a little  
4 flavor of what we picked up along the road to  
5 date. Miriam is an operations research analyst  
6 on our highway-rail crossing safety staff.  
7 Miriam?

8 MS. KLOEPPPEL: Thank you, Grady. Good  
9 morning, everyone. Thank you for coming.

10 Those of you who have already seen  
11 this, just try not to snort too loud. Private-  
12 crossing safety has for some time been a matter  
13 of concern to the United States Department of  
14 Transportation and to other federal agencies. In  
15 1993 the FRA hosted an open meeting to initiate  
16 industry-wide discussions.

17 In its 1994 Rail-Highway Safety Action  
18 Plan, the US DOT proposed to develop national  
19 minimum standards for private crossings. In its  
20 1997 study on safety at passive grade crossings,  
21 the NTSB -- National Transportation and Safety  
22 Board; I'm sorry -- highlighted the need for some  
23 system to improve private-crossing safety and  
24 recommended that the US DOT, in conjunction with  
25 the states, determine governmental oversight

1 responsibility for safety at private crossings.

2           In 1999 the NTSB weighed in again in  
3 its report on private-grade-crossing accidents in  
4 Portage, Indiana. In this case, the NTSB  
5 recommended that the DOT eliminate any  
6 differences between public and private crossings  
7 with regard to funding or requirements for safety  
8 improvements.

9           In 2004, the US DOT published an  
10 updated action plan in which the FRA committed to  
11 leading an effort to define responsibility for  
12 safety at private crossings. Today's meeting is  
13 a vital part of that effort.

14           About 1:00 p.m. on May 30th, 2006,  
15 Amtrak train No. 350 struck an empty gravel truck  
16 at a private highway crossing near Jackson,  
17 Michigan. The train was traveling at about  
18 seventy-four miles per hour with the cab car in  
19 the lead when the truck entered crossing in front  
20 of the train.

21           One train crew member and fifteen  
22 train passengers received minor injuries. The  
23 truck driver sustained fatal injuries. The  
24 private road at the accident crossing is used by  
25 an excavating company and by two residences, and

1 on average fewer than thirty highway vehicles and  
2 a dozen trains, eight of which are Amtrak trains,  
3 traverse the crossing daily.

4 It's estimated that the crossing was  
5 created in 1948, and there is no record of any  
6 maintenance contract between the business owner  
7 and/or the Southern Railway, the track owner.

8 About 4:40 p.m. on July 3rd, 2006, a  
9 southbound Amtrak train struck a passenger  
10 vehicle at a private crossing near Castle Rock,  
11 Washington. According to the Amtrak engineer,  
12 the accident occurred when the motorist entered  
13 the crossing after a northbound Union Pacific  
14 train cleared it. The train crew and train  
15 passengers sustained no injuries, but all four  
16 motor-vehicle occupants sustained fatal injuries.

17 The road leading to this crossing is a  
18 county road with county maintenance, and shortly  
19 before the crossing the private road that extends  
20 beyond the crossing dead ends after serving  
21 eleven residences. About sixty trains daily  
22 traverse this crossing. It is not known when  
23 this crossing was created, and no maintenance  
24 contract has been located for this crossing.

25 About 7:00 p.m. on June 21st, 2006,

1 Metro train 921, traveling south, struck a truck  
2 trailer traversing a private grade crossing near  
3 Lemont, Illinois. A piece of the trailer became  
4 wedged under the snowplow of the locomotive. The  
5 locomotive derailed at the crossing.

6 The driver of the tractor-trailer was  
7 not injured. There were 170 passengers aboard  
8 the train. Five passengers claimed minor injury  
9 and were treated and released. No train crew  
10 members reported any injury.

11 This crossing serves two commercial  
12 facilities, to which there is no other access.  
13 Roughly twenty-eight trains and fewer than thirty  
14 highway vehicles use this crossing daily, and the  
15 crossing is maintained by the CN, but there is no  
16 formal agreement.

17 I would like to note that about six  
18 months prior to this accident, another accident  
19 occurred at this same crossing. The truck driver  
20 in the December 2005 accident sustained fatal  
21 injuries.

22 Now I've sort of rolled into some  
23 additional background here. According to the  
24 FRA's 2002 compilation of state laws and  
25 regulations affecting highway-railroad grade

1 crossings, more than half of the states have no  
2 laws or regulations related to private crossings.

3           The federal government, in the guise  
4 of their agency, US DOT agencies, does offer some  
5 regulations or guidance documents that may touch  
6 on safety at private crossings. As you can see  
7 in this sample, however, none of these really  
8 covers a significant portion of the nation's  
9 private crossings.

10           As a matter of fact, there is no  
11 federal regulation or guidance that promotes  
12 safety at private grade crossings by specifically  
13 or uniformly addressing the special issues  
14 presented at private crossings.

15           Some private crossings may be used  
16 only seasonally, like certain farm crossings used  
17 only for agricultural equipment, or they may be  
18 used only for routine personal use, like  
19 crossings that serve residences.

20           Other private crossings, such as this  
21 industrial-access crossing, are used extensively  
22 but for private business purposes by employees,  
23 contractors, and suppliers. In still other  
24 cases, they may be used very heavily by the  
25 public to enter commercial facilities. In some

1 cases, there's no alternative access. As this  
2 slide here shows, these two businesses have no  
3 other way to get in.

4           The rights assigned to private  
5 crossing holders vary greatly. The holder of the  
6 right or privilege to cross may hold outright  
7 ownership of the underlying property, or they may  
8 have a documented easement of the railroad  
9 property.

10           Where it's recognized, the holder may  
11 have a prescriptive easement, or squatter's  
12 rights. There may be a documented license under  
13 contract, or maybe only a verbal license subject  
14 to revocation without notice.

15           Railroads may require crossing holders  
16 to purchase insurance or to provide some other  
17 protection in the event of a collision at a  
18 crossing. Contracts or other legal documents may  
19 further define responsibilities such as  
20 maintenance of the crossing surface or providing  
21 notifications under stated conditions.

22           There is some standardization of  
23 treatment at public crossings across the nation.  
24 For example, the confirmation and use of signs,  
25 signals, pavement markings, and any other

1 traffic-control devices placed at public  
2 crossings generally conform to the guidance  
3 provided in the Manual on Uniform Traffic Control  
4 Devices.

5           In addition, in 2002, the Department  
6 of Transportation published a guidance document  
7 created through efforts of a technical working  
8 group made up of representatives from both the  
9 public and the private sectors. In most states,  
10 however, there is no such standardization at  
11 private crossings.

12           The arrangement of private crossing  
13 signs can be highly individual, and sign  
14 maintenance may be sketchy or almost nonexistent.  
15 Just to bear in mind, there is a cross mark in  
16 there.

17           To gather information on the current  
18 state of the art as well as ideas about possible  
19 solutions to existing problems, the FRA is  
20 holding a series of public meetings such as this  
21 one. The first of these was held on August 30th  
22 in Fort Snelling, Minnesota. The others are  
23 listed, as you can see.

24           In Fort Snelling -- this is not a  
25 complete list of those who attended, just those

1 who seemed to have the most to say at the time.  
2 The discussion in Fort Snelling centered around  
3 the issue that there was a strong perception that  
4 there is no existing process that would provide  
5 consistent structures to create or to evaluate  
6 the relative need for a new private crossing or  
7 to have a grade crossing.

8           The attendees also seemed to indicate  
9 different parties also use different definitions  
10 to decide whether a crossing is public or  
11 private, and a good deal of discussion centered  
12 on the fact that the private crossings are  
13 created for a wide variety of reasons -- for  
14 example residential, industrial, commercial,  
15 institutional, or governmental, or even  
16 temporary; and they may be used to varying  
17 degrees by members of the general public and may  
18 be traversed by users ranging from pedestrians to  
19 construction vehicles or hazardous-materials tank  
20 trucks.

21           The second meeting was held in  
22 Raleigh, North Carolina, and this is again some  
23 of the attendees. The conversation in North  
24 Carolina centered largely on engineering  
25 solutions, and we learned about North Carolina's



1 private-crossing safety initiative, discussed the  
2 need for a baseline set of traffic-control  
3 devices at private crossings, again delved into a  
4 discussion of what are the uses and categories  
5 for private crossings, and solicited and received  
6 some suggestions for design standards, both in  
7 traffic control and in actual roadway design for  
8 private crossings.

9                   Our third meeting was held in San  
10 Francisco, California, and there was a short list  
11 of some of the attendees, again various states  
12 and railroads and some private citizens. In  
13 California and San Francisco, the meeting was  
14 very informative regarding the methods that the  
15 state of California is able to employ in order to  
16 learn what's happening in terms of improvements  
17 or changes to private crossings.

18                   A lot of the discussion centered on  
19 California's ability to use this California  
20 Environmental Quality Act to find out what was  
21 going on at crossings. We discussed a few case  
22 studies and went through a body of hypothetical  
23 questions just to solicit some information on how  
24 they felt the responsibilities should be assigned  
25 at private crossings.

1                   And as Mark mentioned, we are  
2     soliciting not only oral statements, but if  
3     anybody wants to submit a written statement, he's  
4     welcome to do so at the U.S. Docket Management  
5     System, and I will just leave this slide up here  
6     in case anyone wants to write it down.

7                   That's all I've got for right now.  
8     Thank you.

9                   MR. COTHEN: Thank you, Miriam. What we  
10    try to do at these meetings is to first make it  
11    possible for anyone who wants to make an initial  
12    statement, any issues they have, any suggestions  
13    that they have, on the record, and then go to a  
14    discussion format led by our safety staff here in  
15    the Volpe Center.

16                   We have, in addition to the prepared  
17    statements shown here from Betsey Tramonte, who  
18    has previously been introduced to you, an  
19    appearance, I believe, by Jim Kvedaras with CN;  
20    is that correct? Is Jim here?

21                   MR. KVEDARAS: I'm here.

22                   MR. COTHEN: There you go. Are you going  
23    to speak on the record?

24                   MR. KVEDARAS: I am not prepared to speak  
25    on the record.

1 MR. COTHEN: Okay.

2 MR. BROWDER: That was to warn you, Grady.

3 MR. COTHEN: I keep trying, Bill. You  
4 know, I keep trying to tease out these railroad  
5 participants if there's any way I possibly can.

6 That was taken from -- you probably  
7 called and said you were coming.

8 MR. KVEDARAS: I called to say I was  
9 coming, yes.

10 MR. COTHEN: Then we have from Rio Grande  
11 Pacific Mary Beth Meyer and Richard Bertel.  
12 We'll look forward to hearing from you all. And  
13 Rick Campbell has been solicited to come and  
14 brief us on behalf of the National Committee on  
15 Patrol Guards regarding safety activities with  
16 his committee, a subcommittee of the national  
17 committee, but we'll hear from Rick.

18 I haven't gotten from the front desk  
19 others that may wish to make opening statements,  
20 so we'll hold them while we're hearing from these  
21 folks, and then if you're prompted, or as we used  
22 to say in the South in certain religious forums,  
23 if the spirit moves you, we'll be happy to hear  
24 from you on any issues or concerns that you have  
25 in this area.

1                   So let's start with Ms. Betsey  
2 Tramonte, the executive director of Louisiana  
3 Operation Lifesaver. We'll start with education.

4                   MS. TRAMONTE: While we're waiting for my  
5 PowerPoint to come up -- oh, there it goes -- I  
6 first want to get a show of hands from everyone  
7 here who's heard of Operation Lifesaver, been to  
8 an Operation Lifesaver event, familiar with the  
9 program in any way, shape, or form.

10                   Okay. That's pretty much almost  
11 everyone here, which is great, so I'm not going  
12 to spend a lot of time in this prepared statement  
13 on discussing what Operation Lifesaver is, what  
14 Operation Lifesaver does. Most of you in this  
15 room know that.

16                   We were asked to come here today to  
17 discuss what private crossings mean to Operation  
18 Lifesaver. And the first way I thought to  
19 approach this would be to look at our national  
20 mission statement. Our national mission  
21 statement says:

22                   "Operation Lifesaver is a nonprofit  
23 international continuing public  
24 education program, first established in  
25 1972, to end collisions, deaths, and

1                   injuries at places where roadways cross  
2                   train tracks and on railroad rights-of-  
3                   way."

4                   As you see in that mission statement, it  
5                   says, "Where roadways cross train tracks."  
6                   There's no distinction between a public roadway  
7                   and a private roadway.

8                   Next, how does Operation Lifesaver  
9                   save lives? We have trained and certified  
10                  speakers that provide free safety training for  
11                  various professions and all age groups in order  
12                  to increase public safety around railroad tracks.  
13                  Once again, there's no designation between, A, a  
14                  public road that crosses railroad tracks, or a  
15                  private road.

16                  In summary, looking at public  
17                  crossings versus private crossings, Operations  
18                  Lifesaver's goal is to stop crashes at places  
19                  where roadways cross train tracks. Our  
20                  organization educates the public on safety at all  
21                  highway-rail intersections, regardless of the  
22                  highway's owner.

23                  And that's what I'm here to state  
24                  today: That is what Operation Lifesaver does  
25                  when we go to the presentations. It is as a

1 whole, to a whole community, to all age groups,  
2 regardless of what crossings they live near, be  
3 those crossing public or private.

4 And honestly, that is all that I have  
5 as a prepared statement, just to inform you of  
6 that. If you have any questions for me, this is  
7 my contact information. I'm also -- I can e-mail  
8 a presentation to you if you need, and I have  
9 business cards.

10 Does anyone have any questions or --  
11 no one has any questions?

12 MR. COTHEN: He has a question.

13 MS. TRAMONTE: Yes, sir?

14 MR. BROWDER: Bill Browder, from the  
15 Association of American Railroads.

16 You obviously represent Louisiana  
17 Operation Lifesaver. Could you give us how that  
18 fits into the national picture in terms of the  
19 forty-eight other state organizations, the  
20 national organization, and how that's set up with  
21 a board of directors, and maybe talk a little bit  
22 about the fact that your current national  
23 director, after fifteen years, is leaving at the  
24 end of the year?

25 MS. TRAMONTE: Okay. Well, our current

1 president, Jerry Hall, is leaving at the end of  
2 this year. To answer your question, Mr. Browder,  
3 I guess you would like me to describe what the  
4 structure is of Operation Lifesaver, and --

5 MR. BROWDER: And how do you get your  
6 money?

7 MS. TRAMONTE: Well, we get our money  
8 several different ways. On a national level we  
9 receive money from Congress, and then it's up to  
10 the states on an individual level to get funding  
11 within the states. I can only speak to Louisiana  
12 Operation Lifesaver, because I'm the spokesperson  
13 of that program.

14 And I can tell you here in Louisiana  
15 we receive money from the railroads. All of the  
16 Class I railroads pitch in in contributions to  
17 us. We also have short-line railroads. I  
18 believe we have three that pay a small sum in.

19 Then we also have public money,  
20 federal money. We receive money from the  
21 Louisiana Highway Safety Commission, and then we  
22 also receive money from the Louisiana Department  
23 of Transportation and Development.

24 And as I say, I can only speak to  
25 Louisiana Operation Lifesaver. That's what we

1 do. If you were to look at our budget, two  
2 thirds of our money comes from those state  
3 agencies and then a third of our money comes from  
4 railroad contributions.

5 MR. BROWDER: Thank you.

6 MS. TRAMONTE: Does that answer your  
7 question?

8 MR. BROWDER: Sure.

9 MS. TRAMONTE: Okay. Anyone else? Okay.  
10 Thank you very much.

11 MR. COTHEN: Thank you, Betsey. Just to  
12 fill it out, the Federal Highway Administration  
13 and the Federal Railroad Administration are proud  
14 funding partners as well -- and the Federal  
15 Transit Administration, Ron reminds me. And  
16 we're proud to serve on the National Program  
17 Development Council. So now all the officers are  
18 disclosed, and we're proud of them.

19 Anya has been featuring her menagerie  
20 here during this road show.

21 The Union Pacific system includes a  
22 railroad operating in Louisiana, both in New  
23 Orleans, and I believe we have Mary Beth Meyer;  
24 is that correct?

25 MS. MEYER: That's correct.



1           MR. COTHEN: Mary Beth, we don't have  
2 mikes at the table here, so if you wouldn't mind  
3 coming to the podium, that will assist in getting  
4 an accurate record. Ms. Meyer, I believe, is  
5 counsel to the railroad?

6           MS. MEYER: Yes.

7           MR. COTHEN: Okay. Please introduce  
8 yourself again, and when we have your voice,  
9 spell your name and also identify your  
10 affiliation more precisely.

11           MS. MEYER: Good morning. My name is Mary  
12 Beth Meyer, and I'm with the Christovich &  
13 Kearney law firm. And we have been counsel to  
14 the New Orleans and Gulf Coast Railway Company,  
15 in particular Rio Grande Railway Corporation in  
16 New Orleans. And we're here today because in  
17 many ways this railroad is sort of a poster child  
18 for the problems that railroads are facing with  
19 private crossing issues.

20                        What we have within New Orleans and  
21 Gulf Coast railroads is a small railroad company,  
22 short-line railroad, small business, who is  
23 trying to deal with a -- has stepped up to the  
24 plate to, you know, meet the challenge of closing  
25 private crossings and has had a very difficult

1 time of it in -- on every front, basically.

2                   The statistics themselves say a lot.

3 I think if we had a nationwide contest for the  
4 highest percentage of railroad crossings, we  
5 would get the blue ribbon. This railroad, New  
6 Orleans and Gulf Coast, was founded in 1888-'89,  
7 was built around 1890. It's been there for well  
8 over a hundred years, predated all kinds of the  
9 development in this area that has created a lot  
10 of this problem.

11                   When the NOGC -- when Rio Grande  
12 acquired this railroad in 1999, there were 275,  
13 276 at-grade crossings. How do we know there  
14 were that many? We know that because one of the  
15 first things that the company did out of the gate  
16 was to do an inventory. They hired a local  
17 well-respected planning -- professional planning  
18 company to help look at the situation and advise  
19 them on how to deal with the situation.

20                   We created an inventory of these -- we  
21 have the maps over here that I should have  
22 probably brought up to show you this a little bit  
23 better. Created an inventory to define exactly  
24 what kind of crossings we had, and this is a --  
25 if you want to take a look at these later, you

1 can certainly see that.

2                   This is an aerial view, and this map  
3 maps out each and every one of these. We have an  
4 inventory list that defines exactly what kind of  
5 use all of these crossings are put to: Private,  
6 industrial, commercial, multifamily residential.  
7 We have succeeded in closing a number of  
8 crossings since then, but the numbers are still  
9 very high.

10                   These are primarily in Jefferson and  
11 Plaquemine Parish, Louisiana. And one of the  
12 reasons we have this problem, you can see from  
13 this illustration, is the proximity of the  
14 railroad to the Mississippi River and to the only  
15 -- basically only north-south highway running  
16 through Plaquemine Parish, Highway 23, which is  
17 on the -- the tracks are on the river side of the  
18 highway, obviously.

19                   So we have a real situation where we  
20 have a very limited or no-access issue for a lot  
21 of the length of this line. This is -- just  
22 shows some of these representative crossings.  
23 Many of them are just -- you can see how they're  
24 situated right on top of each other, many, you  
25 know, in clusters that are so close that it's

1 unimaginaire that there hasn't been more sharing  
2 just on a voluntary basis.

3           Among the crossings that we see, this  
4 first one up here, Madison Street, the railroad  
5 actually runs through the city street for a good  
6 long way and as it was initially built that way,  
7 and it runs right down through the city of Gretna  
8 and for quite a distance. So you see very close  
9 proximity.

10           This is Mardi Gras World over in  
11 Algiers, and a train runs very close, and there's  
12 just a series of access points there. As you get  
13 farther down, you start seeing more kind of  
14 typical configuration over here with Wright  
15 Avenue, and then the motel, used-car lots.  
16 Windsor Place subdivision is the one that's in  
17 the bottom middle slot, and then this is a  
18 particular example of one of the problems we  
19 face.

20           Entergy sees -- has had a -- faced a  
21 lot of the same problems that were identified in  
22 the other hearings along the way of the  
23 difficulties with implementing a permitting  
24 program: very, very high resistance from local  
25 landowners into entering agreements or agreeing

1 to consolidate crossings.

2                   And we've also had the instance where  
3 we have worked out an agreement with the  
4 landowner-developer only to have the landowner  
5 turn around and go to the local government, in  
6 this case the parish, to have it declared a  
7 public crossing and then basically renege on all  
8 the agreements they had made about signage,  
9 controls, passive controls.

10                   And also in this case we have a high  
11 wall that blocks sight, a visual view of the  
12 track, and it creates a huge problem. And this  
13 is -- despite a lot of efforts, remains in place  
14 as a definite -- a serious problem there. School  
15 busses will no longer go in there, because it is  
16 a problem, and yet we've had a difficult time  
17 trying to get the attention of the local  
18 authorities to deal with this situation.

19                   As you get into the more rural area,  
20 we go from very dense commercial development in  
21 the upper part of the line, through Jefferson  
22 Parish primarily, and then in the community of  
23 Belle Chasse, which is a very densely crowded  
24 suburban area. And this is as you get into the  
25 more industrial and less developed, more rural

1 areas.

2                   The railroad serves a number of  
3 refinery customers in the parish. And a large  
4 grain elevator at the end of the -- near the  
5 terminus of a line and is an important --  
6 certainly is an important contributor to the  
7 local economy and commerce in the area. It is a  
8 very significant part of the local infrastructure  
9 yet is not recognized for its contribution in  
10 this peculiar situation with the traffic down  
11 there.

12                   We also constantly need to remind  
13 them, the local people, of the fact that we keep  
14 so many trucks off the roads down there. We have  
15 a real congestion bottleneck where the Highway 23  
16 crosses the industrial -- one of the industrial  
17 canals, and so we have a huge traffic-bottleneck  
18 problem with this one main highway there already.

19                   So we're keeping many thousands of  
20 trucks off the roads each year and saving on that  
21 infrastructure, but we're not finding a very  
22 welcoming environment from the local authorities  
23 in trying to implement some of the proposals that  
24 we've made about crossing consolidations.

25                   When the railroad was acquired, we --

1 as I mentioned, we went to a local planning  
2 company. We prepared a very detailed and well-  
3 thought-out crossing-plan proposal to show the  
4 municipalities, the local governments in the  
5 state, proposals around which we could work to  
6 consolidate many of these crossings.

7                   This is just one example. This is a  
8 stretch of the railroad as it runs through  
9 Jefferson Parish, which is a New Orleans suburb  
10 on the west bank of the Mississippi, and this is  
11 a largely commercial and residential development  
12 area.

13                   This area we're looking at right now  
14 is a big, more or less undeveloped tract  
15 surrounded by -- there's a large Wal-Mart complex  
16 to the right and then a big intersection with a  
17 number of businesses to the right. We have the  
18 situation here where we have a public-owned  
19 right-of-way that is to the -- it would be above  
20 the tracks.

21                   The tracks are in turquoise on this --  
22 no. I'm sorry. It's the red. We have a public-  
23 owned right-of-way, a fifty-foot right-of-way  
24 that is available for access roads and is --  
25 presents an opportunity to create an access-road

1 situation there.

2                   This is a cluster, for example, a  
3 cluster of four residences here, and -- four or  
4 five residences, and this is one example of the  
5 kind of proposals that we have on several  
6 alternative proposals here involving use of an  
7 access road to combine and eliminate crossings  
8 and get around a use of an access road here as  
9 demonstrated in this lower slide, this smaller  
10 slide.

11                   So these are the sorts of proposals  
12 that we have come up with and funded the study to  
13 address, really, the clusters of crossings all up  
14 and down the right-of-way.

15                   This is another example from the lower  
16 rural part around a citrus nursery and orchard in  
17 which there were a number of crossings,  
18 essentially to one property. And again the work  
19 involved, you know, identifying how to close  
20 crossings, and with the goal in all of these  
21 cases to have fewer but well-constructed,  
22 properly signalized or protective crossings and  
23 to ultimately end up with a lot better  
24 infrastructure and a lot safer environment.

25                   In this part of the line, we don't



1 have the availability of that publicly owned  
2 buffer on the other side. In fact we have in  
3 many instances a very close, very narrow right-  
4 of-way and close -- houses in close proximity  
5 to the tracks, so we have more of a problem in  
6 trying to identify ways to consolidate.

7           These are just a couple of examples  
8 just to show the kind of work that we have done  
9 to try to, you know, get some consensus and to,  
10 you know, work on proposals around consolidation.

11           We have not enjoyed a lot of success  
12 in going to local authorities, and I think one of  
13 the main -- you know, the bottom line in many  
14 cases is the bottom line: The lack of funding  
15 resources and attention to this.

16           I think we have a preoccupation with  
17 the public-crossing problem that is -- you know,  
18 affects many communities in the state, and we  
19 have local parishes without a lot of money to --  
20 you know, for road infrastructure.

21           In this case we have a very peculiar  
22 development pattern where you had primarily  
23 plantation areas that were -- when the railroad  
24 went in, they were an appropriate number of farm  
25 crossings in place. There was no highway there

1 until well into the '20s, and we did not have a  
2 problem created by the railroad. The problem  
3 grew up around the railroad.

4 Over the years, we have the typical  
5 situation of properties being subdivided and  
6 subdivided again and again, and every time  
7 someone has purchased one of those subdivided  
8 properties, their idea is to punch out and create  
9 their own crossing to the highway. So over the  
10 years we've had a problem of changing use and  
11 also a failure to properly police.

12 In many cases we've had this  
13 development pattern existing for quite a long  
14 time. We have very few crossing agreements in  
15 place. We have -- most of those are with our  
16 commercial and industrial users, and we have had  
17 very good cooperation for the most part in the  
18 industrial and commercial, the Kmart's, the -- you  
19 know, large users, but we have had this sort of  
20 tolerance of these for quite a while, and there's  
21 a great deal of resistance to having the game  
22 plan change.

23 We see down here this sort of gravel.  
24 There's a series of gravel crossings in the  
25 residential areas where we have circular

1 driveways. We have a lot of multiple people with  
2 multiple crossings who are very reluctant to take  
3 them out. When we have -- we have a lot of  
4 bootleg crossings, what we call them, basically  
5 people who come in the middle of the night and  
6 dump gravel down and call it a crossing.

7                   And when we have gone in to take these  
8 out and have been then faced with people going to  
9 court and getting a TRO against the railroad and  
10 preventing the railroad from taking them out and  
11 inviting a costly legal battle at that point.

12                   In fact we are currently involved in  
13 litigation over this situation because of the  
14 strong resistance that we have gotten from local  
15 landowners. That's ongoing right now, and I  
16 can't -- I don't want to get too much into the  
17 specifics of the situation but except to point  
18 out that we've filed a federal lawsuit in order  
19 to try to, I guess, even the playing field a  
20 little bit here.

21                   Louisiana is among the majority of  
22 states that has an elected judiciary, and its  
23 people elect judges who go to bat for them,  
24 essentially. And this is a very unpopular  
25 situation in these areas, and we face an

1 extremely difficult battle in the local courts in  
2 trying to convince them of the safety issues that  
3 this presents.

4                   We've filed a federal lawsuit that was  
5 recently, after being maintained for several  
6 years and at great expense, only to get to the --  
7 down to the -- near the trial to be dismissed for  
8 lack of jurisdiction by the federal court, and  
9 which sort of leads into one of the problems I  
10 would like to raise just from a regulatory and  
11 legal aspect here; and that is, the lack of  
12 federal standards and regulations addressing this  
13 in any way has really hampered the railroad's  
14 effort to deal with landowners.

15                   "Well, there's no federal regulation,  
16 so it can't be a safety issue, because they would  
17 have done something about it." That's one of the  
18 attitudes we face. "If this was such a problem,  
19 why haven't the -- you know, why haven't the feds  
20 done something?" And also, in a very concrete  
21 and specific way, means that it not only doesn't  
22 help us; it really has impeded our effort to call  
23 attention to this problem and to gain any  
24 traction.

25                   It has really essentially -- was one

1 of the problems underlying the fact that we were  
2 unable to establish jurisdiction in the federal  
3 court. If you don't have diversity  
4 jurisdictions, for you non-lawyers out there,  
5 unless you can show that you are an out-of-state  
6 railroad, you aren't going to be able to  
7 establish federal jurisdiction. So we -- it was  
8 a direct impediment in that instance.

9           We also found it very difficult to  
10 establish jurisdiction based on the conflicts  
11 with other federal regulations created by the  
12 local laws which a lot of people have been  
13 relying on to get these crossings. And they say  
14 they're entitled to them out of necessity because  
15 they're enclosed properties.

16           And that's one of the issues that's  
17 presented in the lawsuit, is whether these are in  
18 fact -- you know, whether they have properly  
19 followed the law and whether these are enclosed  
20 properties. But we've had a difficult time, you  
21 know, showing that this is a kind of local law  
22 situation that creates a conflict with the  
23 federal law.

24           One of the safety issues that we have  
25 faced and identified in this situation is a real

1 conflict with the track maintenance and  
2 regulations and standards that are on the books.  
3 And what we have is a -- just a nightmare in  
4 terms of trying to do any kind of programmed  
5 maintenance and to try to, you know, maintain and  
6 upgrade the roadbed itself.

7                   With this many crossings, you know,  
8 using mechanized tamping and regulating  
9 machinery, it's just very impractical, and it  
10 undermines the utility of using those mechanized  
11 systems to do that kind of work, because you've  
12 got to pull up every crossing and then you  
13 automatically have a conflict with that crossing  
14 owner who wants their crossing put back. They  
15 don't want to pay for it.

16                   So then you have -- you know, you have  
17 an automatic conflict built in and you'll have  
18 these same owners who want their crossing but,  
19 you know, don't want to maintain it, don't want  
20 to have any part of it except it's the railroad's  
21 problem, and you fix it. And that's been a lot  
22 of the reaction.

23                   So these crossings create drainage  
24 problems, they cause premature deterioration of  
25 the crossties, and really have a very substantial

1 negative impact on the maintenance and the  
2 stability of the underlying roadbed.

3               So we really do have a problem and a  
4 conflict, but it's not clearly defined, and  
5 without any standards for crossings to address  
6 the drainage problems and the profile problems  
7 and the -- what's appropriate for a residence,  
8 what's appropriate for a commercial farm  
9 development, what's appropriate in these  
10 instances.

11               So we have faced really every issue  
12 there is out there facing all the other  
13 railroads, but multiplied times ten. So I just  
14 wanted to propose that we do need -- we need some  
15 help in a regulatory sense, because there are no  
16 standards to point to.

17               There is no voice out there saying  
18 private crossings are safety hazards and they're  
19 disfavored, and if you need a crossing, you,  
20 user, it is up to you to really show you have  
21 some sort of entitlement or right, some need, no  
22 alternative, and that you've exhausted all of  
23 your state property rights in order -- against  
24 your ancestors' entitled to get a passage across  
25 the tracks.

1                   And we need a very strong statement  
2 to, you know, give railroads who are trying to  
3 step up and do the right thing something to go  
4 on. I mean, what we have found is the lack of  
5 regulation has not just been the neutral. It has  
6 really hurt us in trying to bring home the  
7 importance of limiting the number of crossings.

8                   And we obviously need some standards  
9 for how these are built and how they are  
10 protected, and we are looking for a uniform  
11 national approach we think is appropriate to  
12 drive home the importance of the safety aspects  
13 and to -- you know, to help the railroads, like  
14 Entergy, who stepped up to the plate only to have  
15 kind of hit a brick wall at every turn.

16                   We have approached local governments  
17 and the state, and we have really not -- and with  
18 detailed planning, which we did, you know, at  
19 great expense on our dime. We have, I believe,  
20 handled this in a responsible way and have  
21 responded to the challenge to close crossings,  
22 but without the tools to do that, we are very  
23 severely limited.

24                   So that's some of the points I would  
25 like to make. And I think Rick Bertel, of Rio



1 Grande Pacific, would probably like to add  
2 something from the standpoint of a small-business  
3 owner who is trying to operate a railroad in this  
4 regulatory environment.

5 MR. BERTEL: Thank you, Mary Beth.

6 MR. COTHEN: Rick, if you would introduce  
7 yourself again and spell your name for the  
8 record. Proceed.

9 MR. BERTEL: Sure. My name is Richard  
10 Bertel. I'm the chairman and CEO of Rio Grande  
11 Pacific Corporation in Fort Worth, which is the  
12 parent company of the New Orleans and Gulf Coast.  
13 I appreciate the opportunity to speak today and  
14 would like to share some of our experiences in  
15 Louisiana as well as some observations and a  
16 couple of our frustrations.

17 Mary Beth has told me I can't talk  
18 about pending litigation, lawyers, public  
19 officials, or state officials, so I'm through  
20 with my speech. But I hope -- if I've offended  
21 anybody here, I hope I'm an equal-opportunity  
22 offender.

23 A couple of statistics about who we  
24 are and what we do. Rio Grande has four  
25 railroads. We operate in six states, and the

1 NOGC is the smallest in terms of miles of the  
2 railroads that we operate. We acquired the  
3 property in, as Mary Beth said, in 1999. It  
4 originally was twenty-four miles, and it's been  
5 expanded now to thirty-six miles and goes from  
6 Avondale to Gouldsborough, from Gouldsborough to  
7 Myrtle Grove.

8                   One point that I'd like to get across  
9 to the people that are here is that while our  
10 parent company is the Rio Grande Pacific, the  
11 only thing we have in common with, like, Union  
12 Pacific is the Pacific. We are a very small  
13 business, operating in a heavily regulated  
14 environment that is very hostile, particularly in  
15 Louisiana.

16                   Let me just give you a couple of  
17 statistics. For example, the total revenues of  
18 the New Orleans and Gulf Coast annually are  
19 exceeded by Union Pacific in three hours. So the  
20 first day UP works three hours, they've generated  
21 more revenue than we do in an entire year.

22                   We have eighteen employees. The ones  
23 that made it back after the Katrina episode, a  
24 lot of them have stayed, a lot of them haven't.  
25 Employing people is a difficult thing in New

1 Orleans at best right now, so anybody that needs  
2 a job, see me after the meeting.

3 Our total maintenance-of-way  
4 expenditures on the railroad are approximately  
5 \$30,000 per mile per year, which is approximately  
6 what Union Pacific pays on their -- or what it  
7 costs Union Pacific to maintain the fifty-six-  
8 odd-thousand miles of track that they have.

9 Our maximum speed is ten miles an  
10 hour, even though we do try to maintain the  
11 railroad to a higher standard than that. Since  
12 we acquired the property, we have, as Mary Beth  
13 mentioned, brought in highly mechanized,  
14 modernized equipment, surfacing equipment,  
15 alignment equipment, tie equipment, ballast  
16 regulators.

17 We've done a tremendous amount of  
18 ditching and drainage work and, of course,  
19 crossings. I'm not sure if it came out, but we  
20 have 276, or we had 276 when we took over. Now  
21 you never know unless you go look, because  
22 they're like rabbits: They just show up.

23 And the typical problem that we have  
24 is that somebody goes out and decides that you're  
25 going to sell part of their lot to the neighbor,

1 and he doesn't ask, he doesn't talk to anybody,  
2 doesn't care; goes and gets his load of gravel or  
3 a load of asphalt and he comes out there, and the  
4 first time we know about the crossing is when  
5 it's installed.

6                   And we inspect the track every day.  
7 Something on the order of ninety percent of the  
8 traffic that we handle on this railroad is  
9 hazardous, because we serve a Chevron refinery  
10 and a bulk terminal at Marrero. Some of the  
11 miles on our railroad exceed thirty crossings to  
12 the mile. I'm not sure if that came out.

13                   And over the last two years, we have  
14 spent approximately \$15,000 per mile per year in  
15 our failed effort to deal with the bootleg-  
16 crossing dilemma by going through the courts.  
17 Put another way, we've spent about \$600,000 in  
18 legal expense in that period of time, gone  
19 through discovery, gone to court without so much  
20 as getting a hearing, and we get turned back to  
21 the state courts, where the outcome is foregone  
22 as far as I can see.

23                   That \$600,000 would have gone a long  
24 way back in the track. It also exceeds the net  
25 income of the whole railroad for the period. For

1 a small railroad with this much traffic in  
2 hazardous material, we think that these scarce  
3 resources could have been applied more  
4 efficiently with the application of just a  
5 modicum of reason and common sense.

6           You know, Mary Beth alluded to the  
7 number of trucks. If you take the volume of cars  
8 that we handle and you do the math, it's about  
9 50,000 trucks a year that don't run on Highway 23  
10 because of the railroad.

11           In keeping with the code of scoundrels  
12 that Mary Beth alluded to, I can't talk about  
13 lawyers or cases. I'm going to share just a  
14 couple of vignettes about some of the  
15 frustrations that we have with regard to these  
16 crossings.

17           Our effort, as she mentioned, is a  
18 comprehensive study. We hired a prominent  
19 engineering firm, we met with parish officials,  
20 we met with the state. We came up with a  
21 consolidation plan to reduce and eliminate  
22 crossings, because we thought that was the  
23 mandate -- was going back fifteen or twenty  
24 years, when this all started, to reduce  
25 crossings.

1                   And I think the reduction of crossings  
2 has been successful, as the statistics have borne  
3 out, while we're still talking about private  
4 crossings. We have -- as she mentioned, we've  
5 had a high level of cooperation with the  
6 refineries, the large commercial entities, the  
7 people that provide the jobs in the community,  
8 because they understand that there is such things  
9 as liability and generating jobs and trying to,  
10 you know, do something productive or good for the  
11 worker.

12                   The first case that I'd like to talk  
13 about, and I can't mention the name, was one of  
14 these situations where the person had a crossing  
15 to get from Highway 23. They had an existing  
16 crossing to get across the railroad to get to  
17 their trailer. And they decided unilaterally  
18 that one wasn't enough; they needed another  
19 crossing, so that when they went across the track  
20 it was easy to turn around and come back over the  
21 second crossing on what you'd call a U-turn.

22                   And so our maintenance-and-way people  
23 protested and said, "If you do that, you have to  
24 go through the following process: You have to  
25 get a permit, you have to discuss the

1 construction," and we went through an exhaustive  
2 procedure where we took all the permits for all  
3 the Class I railroads that operate in Louisiana.

4 We did what I would think would be a  
5 remarkable cut-and-paste job on all of them,  
6 submitted it through counsel. We came up with a  
7 permitting process that was less onerous than any  
8 of the Class I's currently have.

9 Our offender with the bootleg crossing  
10 said, "Well, we're not doing that. There's no  
11 way we're going to do that." So we said, "If you  
12 put the crossing in, we're going to remove it."  
13 They put the crossing in, and we did remove it.

14 And we got slapped with a lawsuit  
15 where we were sued for -- I believe it was in the  
16 hundreds of thousands of dollars, because the  
17 mother of the person who owned the trailer was an  
18 elderly lady, and she suffered pain and suffering  
19 because she was afraid that the ambulance could  
20 not be turned around, even though they had an  
21 existing crossing. So that's why kind of where  
22 this odyssey sort of started.

23 I would move on to the next deal, next  
24 little story, which deals with Plaquemines  
25 Parish. Plaquemines Parish decided that they

1 needed to get to an area that they wanted to do  
2 some excavating work. And so they contacted our  
3 offices. They were told about the permitting  
4 process. They asked for an application, we  
5 forwarded it, and we didn't hear anything.

6           So one of our managers was down here  
7 one day. He's driving down the street and comes  
8 over a hill, and he sees a big yellow Caterpillar  
9 bulldozer sitting in the middle of our main line.  
10 And being a curious kind of guy, he thought he'd  
11 go over and check it out. He went over, and of  
12 course the Caterpillar dozer belonged to the  
13 parish, and it was broken down in the middle of  
14 the track.

15           So in a friendly tone of voice, I'm  
16 sure, he asked the guys with the parish if they  
17 would mind removing the dozer off of our main  
18 line, because we tried to run trains up and down  
19 it once in a while. And there was a ruckus about  
20 that, and some threats, you know, and "By God  
21 this" and "By God that," and "We'll get to the  
22 bottom of it."

23           Well, eventually, when they got the  
24 dozer off, we discovered that they had broken the  
25 rail with their illegal movement across the



1 track. It was 112-pound rail, and it broke the  
2 rail and did some other damage that amounted to  
3 about \$7,000. And we managed to collect a  
4 thousand of it and had to write off most of the  
5 rest, or all of the rest of it. So even the  
6 parish disregards the rules when it comes to  
7 crossing your property.

8                   And what scares me is the guy who  
9 winds up responsible for this, is that had they  
10 moved the dozer and not known anything about the  
11 rail, if they had not discovered that the rail  
12 was broken, and the next train through there was  
13 the chemical train had come through there and  
14 derailed, with the hazmats bill, I'd be on CNN  
15 explaining something that really had nothing to  
16 do with me. And so these are the kinds of issues  
17 that are very sensitive to small companies that  
18 operate railroads.

19                   Another little story we had a problem  
20 with, when we found out that our railroad right-  
21 of-way exists within the state right-of-way  
22 through a portion of the railroad, we thought,  
23 "Well, this permitting process will be easy.  
24 We'll go to the state, we'll work through the  
25 state," because the people have to have a permit

1 for the state to access Highway 23.

2 Well, that process is not utilized,  
3 and so we weren't able to piggyback our own  
4 permitting process onto the state's, because they  
5 disregard their own process. And it's difficult  
6 to enforce that, because -- you know, our  
7 process -- because they say, "Hey, we don't have  
8 to do that because we don't want to. Take us to  
9 court."

10 The next little story that I got was  
11 -- Mary Beth talked to you about this one  
12 crossing, and there was an agreement negotiated  
13 with the developer. It was approved by the  
14 lawyers. It was several pages.

15 It described in specific detail what  
16 the developer had to do upon the sale of various  
17 lots within the subdivision: He had to put up  
18 active warning devices, they had to clear sight  
19 lines. There were all these things to do.

20 Then the last item on the contract was  
21 to the extent -- and I could get the language --  
22 it says, "Unless this crossing is deemed to be a  
23 public crossing by some agency." So the next  
24 week the local parish proclaims it's a public  
25 crossing, and the whole agreement is abrogated.

1 There's no active warning, there's a sight  
2 distance that is in violation of Louisiana state  
3 law, and as Mary Beth described, the school  
4 busses won't even go in there now.

5 Of course the first call we get, hey,  
6 we need to replace the surface on the crossing  
7 now that it's a public crossing, which doesn't  
8 endear us to the process.

9 I'm almost done. In some of the  
10 pending litigation we have now, one of the lead  
11 attorneys has repeatedly told us that the issue  
12 -- we removed a crossing when we told -- when  
13 somebody wouldn't agree to a permit, or they  
14 wouldn't negotiate with us. They just said, "Go  
15 pound sand."

16 So we removed the crossing. We were  
17 sued in court, and the attorney says, "This issue  
18 has nothing to do with safety." So once the  
19 crossing was out and he went out there and  
20 looked, there were found some defective ties in  
21 the crossing. He threatened us with another  
22 letter and said, "If you don't come out and  
23 correct these track deficiencies in accordance  
24 with the CFR, we're going to call the FRA and  
25 gets them down on your throat."

1                   And so it was kind of interesting that  
2 the lawyers can hide behind the fact that there's  
3 no federal oversight of the surface or of the  
4 whole process, but then once it's removed and is  
5 found to be unsafe, they want to also run and  
6 say, "Okay. We're going to call FRA if you don't  
7 come out here right now and fix it."

8                   We're short-handed, and so now that  
9 I've got a couple of lawyers that are qualified  
10 track inspectors, you know, I think we can  
11 probably fix it. You know, in the lawsuit they  
12 said that safety wasn't an issue, because we're  
13 only going ten miles an hour. And of course  
14 obviously he's never seen a grain car turn over  
15 at ten miles an hour or he's never had to pick  
16 one up or he's never seen a chemical car turn  
17 over.

18                   But my goal is not to be on CNN. I  
19 really don't want to do that. And these guys  
20 are -- I mean, they are a threat to safety.  
21 We're kidding ourselves if we say otherwise. And  
22 I got served with papers yesterday on a crossing  
23 accident that happened in April, and it was  
24 interesting.

25                   I would like to read about our

1 egregious stealth train, if I could. This  
2 accident happened in April. It was investigated  
3 by our people and by the insurance company ad  
4 infinitum. This is just part of it. It says:

5 "Suddenly and without warning, the  
6 railroad train operated by our employee  
7 attempted to cross a private driveway  
8 and struck the vehicle, causing a  
9 violent collision and causing plaintiff  
10 to sustain painful and serious personal  
11 injury and economic damage."

12 Well, Louisiana state law says you have to  
13 stop -- I believe -- I get these mixed up because  
14 I'm in different states and the standards aren't  
15 the same, but it's fifty feet. It's fifteen to  
16 fifty. And so this railroad goes parallel to a  
17 major highway. These guys ring and blow the  
18 whistle and bell and, you know, they do all the  
19 appropriate things.

20 Somebody drives out in front. They  
21 can't see the train, which is okay. And we --  
22 you know, our ten miles an hour, the attorney  
23 doesn't think this is a safety issue, but I'm  
24 going to have to defend this lawsuit. And it  
25 starts to lose its fun as a railroad owner when

1 the lawyers wind up working for them.

2                   And it says we failed to maintain  
3 control of our vehicles and railroad train,  
4 failed to keep a proper lookout, driving in a  
5 careless and reckless manner, failing to see what  
6 should have been seen, failing to properly and  
7 timely sound the warning horns and lights and  
8 whistles on the railroad train, failing to safely  
9 cross the private drive over the railroad tracks.

10                   We didn't go out in the street and get  
11 this guy. I mean, "All of the above acts are in  
12 violation of the laws and orders of the Parish of  
13 Plaquemines, State of Louisiana, and are pleaded  
14 herein and so copied."

15                   My final -- there's a recent one which  
16 has happened and didn't happen in Louisiana,  
17 because we do kind of watch this issue in other  
18 places that we operate in. Several years ago we  
19 had a fatality where -- a crossing accident in  
20 Nebraska. And our train crews operate 24/7, 365  
21 out there.

22                   And it was about 1:00 o'clock in the  
23 morning. We had an ethanol train that was moving  
24 between two points at ten miles an hour. A guy  
25 in an eighteen-wheeler who was estimated to be

1 going in excess of eighty miles an hour hit -- I  
2 believe it was the forty-fourth car in the train,  
3 hit it so hard it knocked the tank car into the  
4 corn field.

5                   It was a fatality. It split the cab  
6 of the truck. One side was on one side of the  
7 track and the tank was on the other side of the  
8 track. The cab was full of uppers and pills and  
9 stuff that the driver was taking to stay awake.  
10 And the highway patrol shows up and they say,  
11 "What were you guys doing out here?"

12                   And that is endemic of the problem.  
13 We have instances all the time where we're in the  
14 right place, doing what we're supposed to be  
15 doing, what we're mandated under federal law and  
16 certificated by the Surface Transportation Board.  
17 And why don't we arrest some of these people or  
18 write them a ticket when they do something like  
19 this?

20                   I mean, I watched this earlier this  
21 morning, and how many tickets are written when  
22 somebody violates these laws? I mean, if they  
23 start writing tickets for stuff like that, when  
24 we go to court, juries pay attention to that.  
25 But we just ignore it, you know.

1                   And to bring this to a close, some  
2 conclusions that I've tried to put together:  
3 It's imperative that we start to recognize that  
4 the railroads are in fact interstate highways of  
5 commerce. And that's confirmed by many years of  
6 ICC and SCC doctrine, which requires this.

7                   You can't get in the railroad business  
8 just because you feel like it. You have to go  
9 before the Surface Transportation Board, get a  
10 certificate to operate, because it's a public  
11 necessity and convenience. That's why we're  
12 here.

13                   As such, railroads should have the  
14 right, if given the responsibility via safety  
15 mandate of the FRA, to control what goes on over,  
16 under, around, and through our railroad  
17 rights-of-way. No one should be able to build or  
18 alter the track structure without our consent and  
19 permission.

20                   At least notify us, because if I'm  
21 going to be responsible for that car that gets  
22 dumped over, I don't want some joker that knows  
23 nothing about what he's doing filling the track  
24 structure full of God knows what.

25                   If we've seen much consolidation in



1 the railroad business, we've also seen much  
2 consolidation in the field and plaintiff  
3 attorneys that are a significant threat to our  
4 industry. Over and over we see the same law  
5 firms that sponsor the beer-and-barbecue meetings  
6 teaching our employees about the railroad  
7 lottery.

8                   Moving now into the injury and  
9 plaintiff work for trespasser litigation, let's  
10 have some kind of help on trespassers. I was  
11 looking at some of these statistics from the 2004  
12 study, and it showed from '90 to 2002 on public  
13 crossings where there's an active protection,  
14 that's dropped -- the fatality rate's dropped  
15 about forty-five or fifty percent, and that may  
16 be even better now. And the trespasser  
17 fatalities are flat.

18                   Well, it doesn't take a rocket  
19 scientist to figure out that the crossings that  
20 are protected are helping us, and the trespassers  
21 are not helping us. You know, rather than fine  
22 the railroad for enforcing it on the -- fines on  
23 the railroad to make us the keeper of the safety,  
24 let's involve some of the other people that make  
25 things unsafe. Because we're trying.

1                   I think the railroad industry right  
2 now has one of the safest records it's ever had.  
3 The absurdity of continued safety inaction is  
4 malfeasance in face of the empirical evidence  
5 stretching back to the early '90s, when we  
6 started looking at these crossings.

7                   How many more years, how many more  
8 seminars must the public sector study the issue  
9 before it acts? Without a federal solution,  
10 we'll be meeting at these type conferences in  
11 another fifteen years.

12                   In Louisiana, state and local  
13 transportation agencies have been absent at best  
14 and openly hostile for the most part. Economics  
15 and politics will always trump sanity in the  
16 public sector, even to the detriment of the  
17 public and the regulated. What are we supposed  
18 to tell our customers who follow the rules, the  
19 people that enter into the agreements, the people  
20 that get permits, the people that do it right?

21                   Is our experience of being twice  
22 thrown out of federal court here or remanded back  
23 to the state court, it's only -- we're beginning  
24 to see other squatters being emboldened by that  
25 procedure: pipeline people and other people with

1 encroachments.

2                   Finally, let me -- I've ranted and  
3 raved here. I got my five minutes in the sun  
4 here. But let me leave you with a hypothetical  
5 solution that may bear some discussion or it may  
6 not. In my railroad career, I've had the  
7 opportunity to travel around the world and look  
8 at the acquisition of railroads in Australia and  
9 South America, Africa, Canada, Khazakstan, and  
10 other places.

11                   And one of the things when we were  
12 trying to acquire a railroad in the late '90s in  
13 Australia that was interesting to me that the  
14 Australian National Railroad at that time had a  
15 policy is if there was a crossing, it was going  
16 to be protected, active protection. And I mean  
17 Australia had at the time, like, 19 million  
18 people, and it's the size of the United States.  
19 We've got 300 million, so it's a little different  
20 game.

21                   But the point is, you go out into the  
22 agriculture and the wheat fields or wherever, and  
23 if there was a crossing, it was protected. They  
24 took the attitude that if it was important enough  
25 to be there, it was important enough to be

1 protected.

2                   So let's assume the following:

3 There's 90,000-odd private crossings in the  
4 United States. And my good friend Rick Campbell  
5 -- don't quote him and don't put this in the  
6 record -- but he seems to think for \$150,000 a  
7 crossing you could actively protect them, all  
8 these crossings. You do the math. That's about  
9 \$13 billion.

10                   So let's add a little federal creep,  
11 and we'll call it 15 billion, because these kind  
12 of programs have a way of expanding, taking more  
13 time, being more costly. I mean, what do we  
14 spend in fifteen minutes in Iraq? I don't know,  
15 but \$15 billion is a lot of money.

16                   But if this is a serious problem for  
17 enough of us to have conferences and meetings and  
18 study it for twenty years, I think we should talk  
19 about this. Let's bring all the stakeholders to  
20 the table.

21                   Let's say, for example, that the FRA  
22 allocates \$15 billion to the state DOTs for  
23 purposes of adding active warning protection to  
24 all private crossings. The DOTs will have to  
25 determine the need based upon federal guidelines.

1 The railroads will build and maintain just the  
2 same as the public crossings, the same as we do  
3 now, once the state DOTs determine whatever state  
4 crossings stay or go.

5           Users of the private crossings would  
6 pay the state DOTs an interest rental based on  
7 the investment. You get a crossing, you have to  
8 pay for it. And this is all -- within the final  
9 analysis, this is all about money, anyway, and  
10 how you spend the money to get the safety:  
11 What's the cost benefit?

12           If the DOTs can close crossings, they  
13 get to keep the money. I'm sure that some scheme  
14 like that with an incentive might close a lot of  
15 crossings. The interest rental that the  
16 stakeholders use on the crossings would go into a  
17 fund for the maintenance of these private  
18 crossings in the future, administered by the  
19 states.

20           And realistically, I figured, talking  
21 to Rick, that minimally it would take five years  
22 to do all this, to protect all these crossings.  
23 If the FRA says go tomorrow, time you gear up,  
24 build them, and install them, it's going to take  
25 five years. So you could probably do this at \$3

1 billion a year for five years one time, and you  
2 could take the money out of the RIF program.

3                   Finally, well, and what that would do  
4 is that the federal government would get its  
5 desired objective of fewer crossing accidents,  
6 because the statistics show that the protected  
7 crossings have declined fifty or sixty percent.  
8 The state DOTs would get massive new  
9 bureaucracies around the country, which would  
10 make them happy.

11                   The railroads would get crossing  
12 protection, which frankly helps me, because I get  
13 tired of looking at that insurance guy every  
14 year. And they just shake their head say, "How  
15 did you go from 276 crossings to 300 crossings?"  
16 And I said, "Well, it's kind of difficult,  
17 because people just go out there and build them.  
18 I have no control over that."

19                   And my insurance premiums hopefully  
20 would go down. And the person who actually uses  
21 the crossings, and we're kind of in a user-paid  
22 society these days, would have to pay. And if  
23 you want to turn it into a social program or  
24 socialism, then the states could administer --  
25 you know, you can gouge through commercial guys

1 and give it away to the guy in the small rural  
2 house or trailer. That's -- for two cents you  
3 got my solution.

4           Oh, yes. Finally, we appreciate the  
5 FRA declaring a safety emergency in Louisiana to  
6 stop the insanity of the state and local inaction  
7 on the subject of private crossings. This is a  
8 real problem. It deals with real businesses like  
9 mine and like the big guys. You know, waiting  
10 another twenty years to get an answer really  
11 defeats the purpose of coming to these kind of  
12 conferences.

13           Thank you for allowing me to provide  
14 my thoughts and observations, and I'll be around  
15 if anybody has questions. Thank you.

16           MR. COTHEN: Thank you, Rick, for that.  
17 You'll also find a very complete statement on the  
18 subject in the public document if you want to  
19 revisit some of those points. Mary Beth?

20           MS. MEYER: Right. That's the point I was  
21 going to make in closing, very quickly. The  
22 insurance question that you addressed, we have  
23 looked into that and find that it's just a  
24 nonstarter for users in the local market in  
25 particular because of the insurance crisis we're

1 in. But beyond that, residential users, you  
2 know, insuring around the liability issues is a  
3 very, very difficult nut to crack here.

4 Thank you.

5 MR. COTHEN: Thank you. The docket again  
6 is identified in the material that you've been  
7 provided, No. 23281, and it's available online at  
8 dms.dot.gov. And you can go there and find  
9 transcripts of the prior meetings as well as  
10 written submissions to the public docket.

11 We're now going to take, for  
12 everyone's comfort and convenience, a fifteen-  
13 minute break, after which we'll hear from Mr.  
14 Campbell. So please return promptly at thirty-  
15 five minutes after the hour.

16 (Following a brief recess, the proceedings  
17 continued as follows:)

18 MR. COTHEN: Mr. Rick Campbell, of  
19 Railroad Controls Limited, has been solicited to  
20 speak today and help us understand the  
21 relationship among this issue, public-crossing  
22 issues, and highway-based traffic control  
23 standards, and in particular the thought that  
24 folks are putting into the issue of public-access  
25 private grade crossings.



1                   So, Rick, please come forward,  
2     introduce yourself for the record, and proceed.  
3     Thank you for being here.

4                   MR. CAMPBELL: Good morning. I'm Rick  
5     Campbell, and the spelling is C-A-M-P-B-E-L-L,  
6     like the soup. No relation. And I have the  
7     pleasure of knowing most everyone in this room  
8     from various dealings and meetings that we've  
9     attended. And I wanted to thank FRA and Grady  
10    and his staff for inviting me to speak today.

11                   Private crossings are an issue that we  
12    deal with, and I'm going to qualify that "we." I  
13    work for a firm called Railroad Controls Limited.  
14    But part of my duties, we're very active in  
15    support of standards and recommended practices  
16    within the railroad industry.

17                   And I'm involved with both AREMA,  
18    which is the American Railway Engineering and  
19    Maintenance of Way Association, and highway-rail  
20    grade crossings, and I'm also involved with a  
21    group called the National Committee on Uniform  
22    Traffic Control Devices, or NCUTCD.

23                   And NCUTCD -- to give you a little  
24    background on NCUTCD, they are a private  
25    organization. They're not connected with FHWA.

1 They do date back to the 1920s through various  
2 associations and organizations. And NCUTCD is  
3 made up of slightly over 200 professionals that  
4 are involved with all elements of traffic-control  
5 devices, traffic and transportation engineering.

6           Within the NCUTCD there are various  
7 subcommittees or technical committees, as they're  
8 referred to, one of which is the Railroad and  
9 Light Rail Transit Technical Committee, of which  
10 I serve as chair, being elected by my peers.

11           Within our technical committee we have  
12 responsibility to comment to FHWA on parts 8 and  
13 10 of the NCUTCD, part 8 being the section that  
14 deals with railroads and part 10 being the  
15 section that deals with transit, specifically  
16 light rail transit but also other types of  
17 transit such as streetcars and on-rail running.

18           Within that group, of course, we're  
19 responsible for changes, edits, comments to those  
20 particular parts of the manual, and it's  
21 interesting because one of the things that we  
22 wrestle with within our technical committee is  
23 private highway-rail grade crossings.

24           And private highway-rail grade  
25 crossings are a unique issue within NCUTCD

1 because NCUTCD is a document that is actually set  
2 up to deal with public travel and addresses  
3 issues relative to that public travel.

4 NCUTCD -- and I'm going to read an  
5 excerpt here regarding NCUTCD from comments on  
6 the FHWA Web site -- is that at the present time  
7 NCUTCD deals with roads that are open to public  
8 travel. And "open to public travel" is a term  
9 that's not defined in the Code of Federal  
10 Regulations.

11 There is an underlying effort on  
12 behalf of the national committee, who has  
13 convened a task force to deal with traffic-  
14 control devices on private property. And what's  
15 interesting is this task force spun out of  
16 traffic-control issues on private property for  
17 things that you might consider like shopping  
18 centers and malls.

19 And their goal is, as Tom Hicks, who  
20 has served as chair of that task force, has told  
21 me: He says, "Our goal has been to prevent green  
22 stop signs." And I'm sure everybody in here has  
23 driven through some type of private facility  
24 where you find a green stop sign or a stop sign  
25 that may be square or round because it was part

1 of an architectural enhancement.

2           But while it had a specific traffic-  
3 control function, it didn't conform to standards  
4 within the NCUTCD. Hence this development of the  
5 task force to be able to go in and try and set up  
6 guidelines for traffic-control devices on private  
7 property.

8           One of the things I think that we get  
9 sidetracked on in part of this entire process is  
10 the whole public-private-type issue: Who owns  
11 the land, or who actually is the titleholder to  
12 the access way for whatever facility it is?

13           And it strikes me that that's not  
14 really not the issue; that we've dealt with  
15 public and private ownership, but the real issue  
16 has to deal with expectation of access: Does the  
17 public have the expectation of access to the  
18 crossing, to the intersection within a mall, to  
19 whatever the facility might be where there's some  
20 traffic-control-device requirement?

21           And this issue of course extends  
22 beyond private crossings. It gets into that, the  
23 area that we find with malls and shopping centers  
24 and businesses or business parks where there's  
25 actually a large number, a significant number of

1 vehicles, publicly operated vehicles, that access  
2 that private property, if you will.

3           And as part of that, I would like to  
4 encourage FRA to give consideration maybe to the  
5 fact that there's a need for a third  
6 classification that we apply besides public and  
7 private. And I would like to suggest that FRA  
8 consider what we call semipublic.

9           And semipublic would be an access way,  
10 and specifically narrowed to our hearing today, a  
11 highway-rail grade crossing that is owned by  
12 other than a public agency but to which the  
13 public expects free access.

14           And examples of that could be of  
15 course shopping centers and various commercial  
16 establishments. It could be a large facility or  
17 crossing to access a single facility such as a  
18 fast-food restaurant or a convenience store. We  
19 generally find that these semipublic crossings  
20 could fall into categories such as industrial,  
21 commercial, recreational, or to access  
22 multifamily homes.

23           So I would like to propose that we at  
24 least give consideration to the term "semipublic"  
25 as it might apply to highway-rail grade crossings

1 and all types of traffic-control devices. We  
2 would still retain the category as private  
3 crossings, but we would generally define that as  
4 crossings that there is no public expectation of  
5 free access.

6                   And examples of those might be  
7 crossings that serve a single residence or a  
8 crossing that a landowner has for access from  
9 field to field or for access from a public  
10 roadway to a field or private access outside of a  
11 residence.

12                   Those are crossings that are generally  
13 assumed not to have just open access to the  
14 public, and in many cases they're fenced and  
15 locked; or in the case of a driveway to a private  
16 residence, one that there's very limited access  
17 by the public, generally the landowners or  
18 residents of the residence and service providers,  
19 such as delivery trucks, commercial vehicle  
20 operators who could have training to be able to  
21 deal with access over these crossings and private  
22 facilities.

23                   So that begs the question. Once we  
24 can define what this particular crossing is, is  
25 how do we actually deal with private crossings

1 and need for traffic-control devices? And some  
2 thoughts that we've struggled with within the  
3 Railroad and Light Rail Technical Committee  
4 involve if we do have a private or a semiprivate-  
5 type crossing, do we have a need for a specific  
6 traffic-control device to deal with access over  
7 that crossing?

8                   Many states -- of course California,  
9 through their Public Utilities Commission, has  
10 taken a lead in development of a sign to be used  
11 at private crossings which clearly denotes that  
12 the crossing is private. And of course the  
13 underlying statement there would be that there's  
14 no trespassing allowed to the general public.

15                   And if we support that type of sign  
16 within our technical committee, that there does  
17 need to be a distinction that the crossing is off  
18 limits to the general public and that the  
19 specialized sign could possibly be adopted for  
20 these semipublic crossings, however, we also  
21 support the fact that if the public has access,  
22 we believe in standardization, which would then  
23 involve the use of traditional crossbuck and  
24 supporting advance warning signage.

25                   So just in closing with my comments, I

1 think that it would behoove FRA to be able to  
2 step in and try and assist with the problems that  
3 we've heard with private crossings and access to  
4 private facilities, but as I say, to take it to  
5 the step that we look at, Does the public have  
6 some expectation of free access?

7                   And if so, we need a methodology to be  
8 able to apply standardized traffic-control  
9 devices and at the same time to go through a  
10 diagnostic process as is already spelled out in  
11 part 8 of the NCUTCD. And as part of that, the  
12 semipublic crossing would go through permitting-  
13 type process that we would like to see FRA have  
14 oversight over this.

15                   And things that would be considered to  
16 be part of this permitting process would be to  
17 define the responsibility for access over the  
18 crossing: Who's actually responsible for -- who  
19 is the jurisdiction responsible for the crossing?  
20 Ultimately that of course would carry over to  
21 responsibility for traffic-control devices at the  
22 crossing and of course for maintenance at the  
23 crossing.

24                   And as part of that agreement that if  
25 the responsible agency failed to fulfill its goal



1 to install or maintain devices, surface access,  
2 vegetation, all the items that we could consider  
3 issues at crossings, that the crossing would  
4 automatically be closed, that there would be no  
5 recourse other than to have the crossing closed.

6 And that alone would serve as an  
7 incentive to a commercial or an industrial-type  
8 facility to continue the maintenance and access-  
9 way improvements necessary to retain the crossing  
10 in an open and passable condition.

11 And finally, in closing, I'd just like  
12 to encourage FRA generally in the private-  
13 crossing endeavor, that this is an issue that  
14 both the national committee and numerous states  
15 that I work with wrestle with: How we deal with  
16 treatments at private crossings and what rules  
17 apply?

18 And I certainly applaud your effort to  
19 deal with this. I encourage you to move forward  
20 with regulation and to be able to have enough  
21 regulatory teeth to be able to give us some form  
22 of control where we can actually provide a level  
23 of enforcement to persons wishing to create a  
24 private or a semipublic crossing over a railroad.

25 Thank you.

1           MR. COTHEN: We have notice of two  
2 additional individuals who would like to present  
3 on behalf of themselves or others. The first is  
4 Mr. Ben Saunders, Association of Trial Lawyers of  
5 America; and then on behalf of himself, Mr. John  
6 Van Mol, who introduced himself this morning and  
7 can give us a perspective from a point of view of  
8 private-crossing owners, which we very much look  
9 forward to as well.

10           So let me ask Mr. Saunders to step  
11 forward and introduce yourself for the record,  
12 spell your name, if you would, and proceed.

13           MR. SAUNDERS: My name is Ben Saunders,  
14 and I served about ten years ago as chairman of  
15 what's called the Trial Lawyers Railroad Law  
16 Section. It's at the American Trial Lawyers,  
17 ATLA, which I know from some of the earlier  
18 comments is not necessarily a word or a group  
19 that's very engendered by the business industry  
20 or defense lawyers.

21           But the truth is that ATLA represents  
22 us. And when I say "us," I mean you and me.  
23 ATLA's purpose is people. And so that I don't  
24 misconstrue where I'm coming from or you don't  
25 misconstrue or downplay what I have to say, let

1 me say this: I don't do pedestrian crossing  
2 cases, so the folks with the short-line railroad  
3 here in Louisiana, I don't represent those folks  
4 that have the circular driveways going across  
5 your track.

6                   Who I do represent are the locomotive  
7 engineers. And those locomotive engineers share  
8 a unity of interest with the railroads in that  
9 the railroads don't want to lose their engines or  
10 their engineers. And we're not talking about a  
11 situation where the train hits a car, where the  
12 train always wins. We're talking about  
13 situations like this gentleman referred to  
14 earlier about the industries that he serves with  
15 the highly flammable cars and leakages into  
16 communities.

17                   And I don't do class actions either;  
18 okay? So I really don't have a dog in the  
19 crossing fight or the class-action fight. I only  
20 care about the guys operating the trains, because  
21 that's my chosen profession, just like this other  
22 gentlemen writes through the NCUTCD. So that's  
23 where I'm coming from, so it's not like here's  
24 one of those trial lawyers looking to play the  
25 lawsuit lottery. That's not my game. I don't

1 have a dog in that fight.

2                   But what I do say is this: Jolie  
3 Molatores (phonetic) was the FRA director several  
4 years ago, and she asked a group of us to come up  
5 and talk to her. She said, you know, "I want to  
6 be responsive, more responsive to the people who  
7 I'm chosen to serve and not just the industries  
8 that I also have the privilege of serving. And I  
9 know that you guys represent the people, and I  
10 want to hear at least what you have to say."

11                   And what we had to say was, you know,  
12 corporations -- I went to a very liberal Catholic  
13 law school here in New Orleans. It was a Jesuit  
14 school, and they said, "You know, corporations  
15 are fictitious persons and corporations exist to  
16 serve the people."

17                   And this gentleman said, "Jolie  
18 Molatores, even though she philosophically  
19 disagrees with me, you know," he says, "we're  
20 here -- we're here to protect the people. We  
21 want to have separations so these accidents can't  
22 happen."

23                   So although we may philosophically be  
24 coming from different parts of the country, at  
25 the end of the day we agree that the name of the

1 game here is to serve the people and use the  
2 money that we can get from the government to make  
3 life safe for the railroad, the railroad  
4 engineer, and those people who have these,  
5 quote -- I'm using this as kind of a joke --  
6 these circular driveways across railroad tracks,  
7 which are ridiculous, aren't they?

8 FROM THE FLOOR: Amen.

9 MR. SAUNDERS: I knew you'd like that. So  
10 my point being, we can talk about regulation,  
11 making the federal government bigger, having the  
12 politics that we have, having the courts do this  
13 and the courts do that.

14 But what's the problem? The problem  
15 -- once again, you observed it, sir: The problem  
16 is that you have to have an inability for a human  
17 being who either works for a railroad or a human  
18 being who's driving a vehicle to interact.

19 And where is the solution to this  
20 problem? It's been in Washington for years. The  
21 National Transportation Safety Board for years  
22 has published and advocated what is called -- and  
23 once again I'm on the page with you -- positive  
24 train separation. What is positive train  
25 separation? You can't have an interaction with

1 human beings.

2                   Why? Because we can make all the  
3 rules you folks want to make, all the  
4 regulations, pass responsibility, have your  
5 insurance-premium quote go up sky high. In New  
6 Orleans we know how bad insurance is. Look at  
7 the Hurricane Katrina claims. This poor fellow's  
8 trying to run a small company, and his premiums  
9 are skyrocketing. Okay.

10                   So you've to say how you solve the  
11 problem. The problem is solved by not having an  
12 interaction. So does it cost \$3 million a  
13 crossing or \$300,000 a crossing? Do all  
14 overpasses have to be built? That's not what the  
15 National Transportation Safety Board said.

16                   All of y'all ought to do yourselves a  
17 favor and drive down Airline Highway on your way  
18 home and go by what's called the Cold Storage  
19 Facility, where the Kansas City Southern and  
20 IC -- I can't remember which railroad -- has a  
21 few telephone poles built up with a roadway that  
22 goes under it so that when a train is coming from  
23 New Orleans going to Baton Rouge, the trucks  
24 going to the cold storage can't -- cannot --  
25 interact with the train.

1                   That's the shortcut we took from  
2 Metairie to Uptown to go to law school since the  
3 '60s. Never been a wreck there, because they  
4 can't interact. Don't worry about reading the  
5 sign. You can preach "Stop, look, and listen"  
6 all you want. You can put up flashing lights,  
7 you can put up stop signs there. It's your  
8 responsibility. It's not the state's  
9 responsibility.

10                   But look at this problem: Human  
11 beings are going to operate like human beings.  
12 Governor Blanco said, "Oh, my uncle was killed by  
13 Union Pacific. He just forgot to stop one day."  
14 I understand that Governor Blanco at the hearings  
15 in Baton Rouge, I understand that, because people  
16 err. To err is human. We make mistakes.

17                   So how do we design it out? By not  
18 having the train operate in a fashion that it can  
19 interact with an eighteen-wheeler or a lowboy  
20 hang up, a chemical truck, and, going down, a mom  
21 and a pop who are having an argument in the car  
22 and they stop on top of the track and get  
23 whacked; okay?

24                   So my suggestion to everyone is -- and  
25 it's not really part of the paper. ATLA made a

1 presentation or a paper. This gentleman has  
2 that. Y'all can read all of that. But my  
3 comments are, Why don't we use our heads? Sir,  
4 you mentioned everybody in Europe. I've been to  
5 Europe and I've watched in every country in  
6 Europe the positive train separation.

7                   He was talking about Australia and  
8 going to the Far East and so forth and so on, but  
9 I've watched it. You go to Italy and you don't  
10 cross the track. A bar doesn't just come down  
11 like this. The bar comes across, and you don't  
12 have a choice.

13                   You do not have the option of driving  
14 across the track. That's a solution. You can't  
15 drive around. You'd have to drive through the  
16 barrier. You can't hook a left then a right and  
17 get around it. That's No. 1.

18                   No. 2, do something cheap, like the  
19 cold storage, when they're going through Nebraska  
20 through the corn fields, and you want to have a  
21 situation where the truck is going to some  
22 processing plant and you don't want that  
23 eighteen-wheeler to have any ability to interact  
24 with the train.

25                   And then obviously, if you look again



1 at Metairie Road, you have to build in some  
2 instances overpasses, but the engineering and the  
3 technology are there. And again, if we can spend  
4 billions and billions and billions of dollars  
5 freeing Iraq, why can't we spend a few million  
6 protecting our people: You, me, the good guys  
7 like him and the bad guys like me, the trial  
8 lawyers? What's wrong with that?

9 And I say that facetiously, and that's  
10 my whole speech.

11 MR. COTHEN: Somebody behind me was  
12 talking about how we couldn't get out of here  
13 without talking about Metairie Road. Ben's taken  
14 care of it, so let's just let it lie. Thank you,  
15 sir.

16 Mr. John Van Mol, still with us?  
17 There he is. Could you come up, please, and  
18 identify yourself for the record and proceed.

19 MR. VAN MOL: I'm John Van Mol. I'm a --  
20 looks like I'm kind of slim and minority here  
21 this morning. I don't work for the railroad, I  
22 don't work for the government, I'm not an  
23 attorney, and I have been known to drive a truck  
24 from time to time.

25 It's just from listening to some of

1 you guys this morning that kind of makes me  
2 wonder if we did away with the lawyers and the  
3 truck drivers, from the railroad's point of view  
4 we'd be in pretty good shape. I don't know how  
5 Wal-Mart would fare, or the grocery store.

6 I'm a farmer. I have a cotton gin,  
7 interest in a grain elevator. And all of these  
8 things put me in basically the same predicament  
9 most of you are in: We have people that work for  
10 us that depend on us to make decisions for them.  
11 We have a responsibility to their families.

12 Sometimes when I'm really frustrated  
13 with different employees, I try to remind myself  
14 that that guy's out here buying diapers for  
15 somebody. And that's important to me, that it's  
16 a person, just like you alluded to a minute ago.

17 This is one of the farms that I farm,  
18 and it's owned by four different landowners. The  
19 Union Pacific Railroad is identified right here,  
20 running through the middle of it. Highway 71 is  
21 the northernmost border.

22 This piece of property belongs to one  
23 landowner, this piece of property belongs to  
24 another, this piece of property belongs to a  
25 fellow that fought in the Battle of the Bulge,

1 D-Day plus zero, and he's not very railroad-  
2 friendly, by the way. And this piece of property  
3 here belongs to another landowner.

4                 July the 7th of 2005, in an attempt to  
5 live up to the rules and regulations that the  
6 Federal Rail Administration has set forth, they  
7 came through and posted all the private crossings  
8 along the breadth of this property that we're  
9 farming with the exception of this 427-860-D,  
10 which at that time and for the last fifty years  
11 prior to that was always believed to be a public  
12 road.

13                 It was -- on public record it was  
14 called the Oilfield Road. According to our farm  
15 management team, the Oilfield Road is a little  
16 further down, but according to the public record  
17 that's the way it was. That was July the 7th  
18 when they were posted.

19                 August 18th: We started harvesting  
20 corn and we stopped shelling corn long enough to  
21 attend a meeting, a public hearing, public  
22 gathering that the Union Pacific had in the small  
23 town of Cheneyville, underneath an oak tree out  
24 by the bank where they used to gather to play  
25 dominoes. So it was kind of a real nice, relaxed

1 atmosphere.

2                   At that time I met with a railroad  
3 representative and gave him basically a list of  
4 the crossings, private crossings, that were --  
5 that I was involved in, and asked him that these  
6 crossings be left in place. At that time I also  
7 inquired about this crossing, No. 427-860-D,  
8 which is the main corridor for the entire acreage  
9 there.

10                   The farm headquarters is located here,  
11 where it's identified as a shop. And of course  
12 we service the different fields from that area.  
13 That was the 22nd of August.

14                   The 26th of August: I'm sitting in my  
15 pickup, and the phone's been buzzing, buzzing,  
16 buzzing, buzzing. I know all of y'all have one  
17 of those. And I'm ignoring it because I'm doing  
18 something else.

19                   And then the radio comes through, and  
20 the train hit it. The train hit the truck. The  
21 train hit the truck. I didn't know if one of my  
22 sons was in that truck or not, because I have a  
23 number of children. So it's not just a fatality  
24 anymore. All of a sudden it's real personal.

25                   So the safety aspect of everything

1 we're talking about here today is not just  
2 rhetoric as far as I'm concerned. It's real.  
3 And for just a few -- until I heard him on the  
4 radio saying -- you know, talking to someone  
5 else, I was very concerned that my eighteen-year-  
6 old son, soon to leave for college in just a few  
7 days, could possibly have been involved. That  
8 was the 26th of August.

9           Of course the truck driver in his  
10 infinite wisdom, who was unhurt, filed a lawsuit  
11 the next day against the railroad. I kind of  
12 want to tell the whole truth and be fair to  
13 everyone. And you know, it wasn't my truck. It  
14 was an independent trucker that I had hired. But  
15 he filed a lawsuit against the railroad.

16           But just kind of some notes from my  
17 diary to let you know the framework of the  
18 average citizen, August 27th: Elevators are  
19 full. River traffic on the Red and the  
20 Atchafalaya rivers has stopped.

21           August the 28th: All trucks are full.  
22 Can't find a truck anywhere. August the 29th:  
23 Katrina hits New Orleans 6:00 a.m. September the  
24 8th: We finish up going to Cheneyville, moved to  
25 Alexandria, another farm.

1                   September the 9th: The Union Pacific  
2 Railroad posted this crossing. And I don't know  
3 how to do this. There we go. Union Pacific came  
4 along and put us a little sign there saying that  
5 it was now subject to closure. So be it. They  
6 posted the crossing.

7                   September the 12th: We're exfoliating  
8 cotton as fast as we can. There are three more  
9 storms out in the Caribbean. September 22nd, ten  
10 days later: We're picking this field of cotton  
11 very close to this sign, and I walked by the sign  
12 and I noticed that -- in my mind I think to  
13 myself, "Well, the railroad has done it again.  
14 They're duplicating what they did. Somebody  
15 forgot to do it last time." But I had spoken to  
16 the man in charge of the railroad, who spoke with  
17 authority and said that he was in charge. And he  
18 said this is a public road. It's not subject to  
19 closure.

20                   The next morning at 5:00 a.m. we moved  
21 out on the highway to go up to the Alexandria  
22 farm to pick cotton. September 24th: Rita makes  
23 landfall. We had sixteen inches of rain. That's  
24 what it looked like after that (indicating). I  
25 don't know if y'all can see, but the next time we

1 saw this sign, I personally saw it, it did not  
2 stand out in my mind very clear.

3 I had just lost enough money for all  
4 of us to retire on from the storm. The letters  
5 are washed off. Not a big deal. Nothing to be  
6 extremely concerned about.

7 In February, I see a track crew doing  
8 some maintenance on the railroad. In passing by,  
9 I stopped. There was a piece of broken rail on  
10 the ground. This crossing has a tendency to hold  
11 water close to the crossing here. It would hold  
12 water and it would have spongy places. I don't  
13 know if any of y'all are familiar with that in  
14 maintaining your tracks.

15 But they had taken a backhoe and dug  
16 some trenches alongside of the track, and there  
17 was a broken piece of rail. And the workers led  
18 me to believe that "We're repairing the track.  
19 It's bad and soft, and we'll be back." That was,  
20 I believe, to be mid-February.

21 In mid-April we rolled back in. We're  
22 starting to plant, to do plowing operations. And  
23 the track still isn't back. The railroad is  
24 not -- from a personal point of view, has not  
25 been real responsive to phone calls. It's seldom

1 that I call someone at the railroad and they  
2 answer the telephone. Quite often it takes a  
3 number of days of repeated messages, that sort of  
4 thing.

5           And that's kind of downplayed once you  
6 get them on the phone. They're the only ones  
7 that are really very busy, although according to  
8 my wife, I quite often work ninety-hour weeks.  
9 But anyway, we finally got ahold of the railroad,  
10 and the landowner and I and my partner met with  
11 the railroad.

12           And at that meeting they made it clear  
13 that this crossing was going to be closed and  
14 that we had adequate -- I'm going to go back  
15 here. Let's see. That's not right. They said  
16 we have adequate crossings.

17           "We're going to take your main road  
18 out, and you have a crossing here," which that's  
19 D-Day. And I'm not trying to put down D-Day.  
20 D-Day is very old. He's paid his dues. He  
21 doesn't like to be fooled with.

22           But we have a crossing here. We also  
23 have another crossing here. And here's our  
24 headquarters, by the way. So "That's adequate.  
25 Be happy with what you have. Good luck to you.



1 So if you want to try to put in an application,  
2 you can put in an application. In fact you don't  
3 have applications on file with the Union Pacific  
4 Railroad on any of these crossings, and as far as  
5 the Union Pacific is concerned, they're all  
6 subject to closure."

7 And you know, "The railroad, the Union  
8 Pacific Railroad, does not owe you a crossing.  
9 The railroad does not owe you a right-of-way.  
10 And as long as there's any possibility of you  
11 getting to that property any other way, that must  
12 be totally exhausted first."

13 Well, that building right there is  
14 movable. It can be moved. So can the railroad  
15 track. You can just get plumb outlandish with  
16 how much money you can spend, but in the course  
17 of just trying to make the best of a bad  
18 situation, we said, "Okay. We have to farm,  
19 because it's kind of like raising children: Once  
20 you have them, you've got to keep going."

21 We started putting our guys out on the  
22 highway, whatever we needed to normally go down  
23 this little 500-foot distance and cross the  
24 railroad track and disperse on the other side of  
25 the farm. We were going south to one side of the

1 farm and north to the other side. But our  
2 problem is, this is a real sharp curve in the  
3 road. Like here, this is normally a sugarcane  
4 field.

5                   So it's basically from where you're at  
6 right there on, you're blind. And that's really  
7 a lot easier trip to the center of the farm to go  
8 down this road than to enter the highway in this  
9 very sharp curve. Can y'all see that truck?  
10 That's one of your truck drivers, guys. He's  
11 probably doing seventy miles an hour around that  
12 curve, and it just so happened that we caught it.

13                   But you can see the road goes up and  
14 banks and dips back down. We have a number --  
15 this year we've had two separate occasions where  
16 people came around this curve and made a beeline  
17 through those first two telephone poles you see  
18 on the slide right there. You can see the  
19 dropoff there by that telephone pole. It's four  
20 or five feet of it.

21                   We go down this road. After we go  
22 down this road, we're going to turn in by this  
23 sign. And that's all well and good, but our  
24 equipment quite often is twenty feet or wider,  
25 and so we really have a problem occupying both

1 the shoulder and the lane in the highway that we  
2 were traveling down.

3                   And when we turn in this road, we  
4 actually have to slow down enough to maneuver  
5 around some obstacles here. The road has not  
6 held up. You know, the railroad pointed out to  
7 me that the economics of two roads being easier  
8 to maintain than one is not their concern.

9                   To this point and date I've spent  
10 about ten, twelve thousand dollars improving  
11 drainage along these roads in order to help them  
12 stand up to the increased traffic of putting all  
13 that traffic on one. We've cleaned out some  
14 ditches. We've done a number of things, and it  
15 still doesn't hold up.

16                   This particular slide right here is a  
17 module truck driver. I don't know if you're  
18 familiar with what a cotton module looks like.  
19 It's very heavy. He came into the road, loaded  
20 cotton, and went back out. That's one trip, and  
21 it rained, so it wasn't as easy.

22                   We also have a northern route that we  
23 can go back to get back to these same places.  
24 And it's a nice, wide-open road right there. We  
25 have a pretty narrow crossing right there, too.

1 This also you can see that railroad crossing is  
2 in place. We offered to the railroad to exchange  
3 crossing for crossing. There was no -- from our  
4 standpoint, there was no negotiating with the  
5 railroad.

6 The only option that I was given was  
7 "You remove three crossings," which, you know,  
8 I'm not the landowner, so I have to go and have  
9 body parts cut off, literally get scalped, and  
10 ask for these things.

11 These men, the people were not  
12 interested in giving up their access, but I went  
13 and asked anyway. And the prospect of giving  
14 three crossings up in order to get the main  
15 road -- crossing at the main road reestablished  
16 was a bit much. It just didn't work.

17 We needed our crossing put back in. I  
18 still need my crossing put back in. We're good  
19 people. We're just trying to take care of our  
20 people. We have never had a problem with the  
21 railroad before. We've always been a good  
22 neighbor to the railroad, and we're not --

23 You know, as a farmer, the railroad  
24 comes through quite often and leaves all kinds of  
25 obstacles for us to pick up and take care of.

1 And I understand it is their right-of-way, but  
2 the railroad in itself creates some safety  
3 hazards, too, and putting folks back out on the  
4 highway was a concern of mine.

5           This slide right here represents a  
6 good percentage of my cotton crop, as you can see  
7 it across the railroad track right there. That  
8 cotton sat there for six weeks longer than it  
9 should have, through the month of October while  
10 it rained because the Mexican went through the  
11 field and ruined the road when he shouldn't have,  
12 but it would have normally been very accessible.

13           The cotton gin ran out of cotton. I'm  
14 one of the principal people involved in the gin,  
15 so our cotton -- I'm a co-op, but I'm the last.  
16 And it cost me dearly, just kind of a haphazard  
17 way that the railroad has pursued this, in my  
18 mind.

19           Now, this meeting is all about safety,  
20 and I am interested in safety. And I am trying  
21 to see things from the railroad's point of view,  
22 and I understand that I have a crossing that is  
23 not a continuous crossing.

24           My men and machinery are not  
25 continuously crossing that railroad. Even a

1 public road, there's not continuous use of the  
2 crossing. We use these crossings seasonally,  
3 but -- we use them seasonally, but when we're  
4 using them, we're using them a lot. We put a lot  
5 of emphasis on safety in our operation.

6           And in talking to the railroad, they  
7 are very anxious to remove absolutely as many  
8 private crossings as they can. But I propose for  
9 my -- for the well-being of my farm, I think that  
10 it would be very easy if this crossing were  
11 reestablished for me to gate it to where it's  
12 denied access during off-period times. When  
13 we're not using it, we go for a month or two  
14 months or three months at a time. It's not  
15 abandoned. Basically it's used very  
16 infrequently.

17           Cable that crossing or gate that  
18 crossing some kind of way. I'm willing to do  
19 that. I don't know -- I believe previous  
20 speakers alluded to that sort of thing. You just  
21 can't rip them all out, just like you can't get  
22 rid of all the truck drivers and all the people  
23 who cause the inconvenience.

24           But I haven't heard that really  
25 mentioned here, but I need -- and I'm willing

1 personally to -- like the man -- I'm sorry, I  
2 didn't catch your name -- but be responsible for  
3 who comes and goes across the crossings. And I  
4 don't have a circular driveway or anything.

5 Thank y'all very much.

6 MR. COTHEN: Thank you very much, sir.

7 Are there others who want to speak in  
8 a general way to these issues before we  
9 adjourn -- recess; excuse me -- for a lunch  
10 break? After which we'll have a topical  
11 discussion.

12 Hearing none, first I'd like to thank  
13 all of the speakers this morning, starting with  
14 the Louisiana DOT for the welcome introduction,  
15 and I'd like to thank all the speakers for their  
16 contributions and for their courtesy to others  
17 and the sense of inclusiveness that they  
18 maintained in addressing the issues.

19 We have waited until late, and  
20 therefore we'll be probably difficult to get  
21 food. And so is there any objection to a 2:00  
22 o'clock restart? Is there anybody who is going  
23 to lose in terms of discussion? Can we do that?  
24 Would you -- it's okay. Not wanting to be  
25 blamed. Okay.

1                   Let's come back at 2:00 o'clock. I  
2 don't anticipate that we'll go terribly late this  
3 afternoon, but we do have this until 5:00, and so  
4 we'll see you back at 2:00 o'clock sharp, please.

5                   Thank you.

6                   (After a lunch recess, the proceedings resumed  
7 as follows:)

8                   MR. COTHEN: I'm pleased to turn over the  
9 proceedings to Miriam Kloeppele to begin the first  
10 two sessions of discussion for the afternoon. I  
11 would encourage any of those around the back who  
12 are interested in filling in and joining directly  
13 into the discussion to do so, as several folks  
14 have had to leave for the afternoon. So you're  
15 welcome at the table.

16                   MS. KLOEPEL: Good afternoon, everyone.  
17 As Grady mentioned, this is going to be a more  
18 focussed discussion, this part of the meeting, in  
19 which we hope to really isolate, if possible,  
20 what kind of data are needed, and if we identify  
21 which data are needed, how do we get those data.

22                   A quick review: This is just a  
23 tabulation of the number of private crossings,  
24 percentages throughout our geographic regions.  
25 As you can see, in each of our geographic



1 regions, the FRA geographic regions, private  
2 crossings do constitute a significant percentage  
3 of all crossings.

4           In total, I didn't put the number on  
5 the slide, but we have about 93,000 private  
6 crossings nationwide. In recent years, in the  
7 last ten years -- oops; excuse me -- looks like  
8 about twenty years here, we've had a significant  
9 improvement in the number of collisions,  
10 accidents at public and public grade crossings,  
11 thirty percent in the past ten years, but we have  
12 had more or less a static performance at private  
13 crossings in that same decade. The improvement  
14 or change has only been about ten percent, and  
15 the numbers are small, so that ten percent could  
16 be an artifact of small numbers.

17           I also want to emphasize that you're  
18 to free feel free to interrupt me at any point.  
19 This is just a series of slides with some of the  
20 current experience at private crossings. If you  
21 have any questions or comments, please speak up.

22           What we have in this slide is the  
23 incidence at both public and private crossings  
24 per 100 crossings, and we've broken it out by  
25 warning-device type. It's quite possible that

1 you can't see because the letters are probably a  
2 little small, but we've got it broken by gates,  
3 lights, other active warning devices, crossbucks,  
4 stop signs, and other; so some other kind of  
5 sign, and also crossings at which there's  
6 nothing, or for which the field in our database  
7 in the national inventory was blank.

8                   We normalized it by the number of --  
9 by 100 crossings with warning-device type in  
10 order to give a kind of picture, a grounds for  
11 real comparison. And it does appear, based on  
12 this, that we may have some, an abnormally high  
13 incidence at private crossings.

14                   Based on our inventory, this is the  
15 number of private crossings by the type of  
16 development. In the first column we've got farm  
17 or agricultural crossings. The second column is  
18 residential driveways, essentially. The third  
19 column is recreational, so access to parks or  
20 some sort of thing like that.

21                   Industrial. And in fact nationwide it  
22 looks like industrial crossings constitute about  
23 twenty-three percent of all the private  
24 crossings. Those that are categorized as  
25 commercial are only .3 percent of the crossings,

1 and we do still have a number of records: 1.8  
2 percent for which there's -- that field is blank.

3 Yes, sir?

4 FROM THE FLOOR: Do you have a breakdown  
5 of accidents per type?

6 MS. KLOEPPPEL: I think I may. Yes:  
7 Number of incidents at private crossings by type  
8 of development. In fact, let me step back for a  
9 second.

10 Here's the number of crossings. For  
11 farm crossings, sixty percent of crossings, 28.7  
12 percent of the accidents or incidents. The  
13 industrial crossings, again, 23.6 percent, but  
14 30.4 percent of the incidents.

15 And most interestingly to me, we have  
16 1.8 percent of the crossings for which we don't  
17 have the information, but 27.9 of the incidents  
18 occur at those crossings where we don't have that  
19 information. Don't yet know why that would be,  
20 but it is something that's raising questions:  
21 What characteristics of those crossings makes it  
22 so?

23 We also broke it up by the number of  
24 number of incidents by the type of train  
25 equipment and the train speed. The light blue

1 column is for freight trains. That's long  
2 freight trains, single cars, or a cut of cars.  
3 The dark blue column is for passenger or commuter  
4 operations.

5                   And the kind of teal green one is for  
6 anything else, and that includes work trains,  
7 yard or switching trains, like locomotives. And  
8 as you go across the bottom from left to right,  
9 you're getting an increase in speed, and of  
10 course it makes sense that we're seeing more  
11 incidents of higher speeds in the passenger  
12 operations. So I don't know if there's anything  
13 particularly startling about this.

14                   FROM THE FLOOR: It's purple up here on  
15 the screen.

16                   MS. KLOEPPPEL: Is it? Thank you. I guess  
17 I'll look up there. Light blue here, but --

18                   FROM THE FLOOR: Light purple, dark  
19 purple.

20                   MS. KLOEPPPEL: Dark purple? All right. I  
21 beg your pardon. No deep purple.

22                   In the US DOT national grade crossing  
23 inventory, thirty-two percent of the private-  
24 crossing records have been updated since 2001.  
25 Twenty-one percent of the private-crossing

1 records have never been updated since they were  
2 created in the early '70s.

3 I don't expect you to read this. This  
4 is just a shot of the form, the inventory form.  
5 I just wanted to demonstrate that for a public  
6 crossing, whoever is filling it out, railroad or  
7 state, almost all of those fields on both of  
8 these pages need to be filled out. That's for  
9 public.

10 For private crossings, only the area  
11 I've shaded is necessary. As you can see, that  
12 brings about a huge disparity in the amount and  
13 type of data that are available for -- between  
14 the two types. Yes, sir?

15 MR. SHREWSBERRY: I wanted to clarify that  
16 only the public tax graded crossings are filled  
17 out.

18 MS. KLOEPPPEL: That's true. Thank you. I  
19 guess there's not much point in doing it for the  
20 ones that are grade separated. I appreciate the  
21 correction.

22 I wanted to step back and think about  
23 the uses to which these data are put, and in this  
24 case principally we're talking about public  
25 crossings. Many people have many different

1 reasons for collecting and using these data, and  
2 these are just a few of the -- it's just an  
3 example of a few.

4           In many cases they are used for  
5 resource allocation or prioritizing which  
6 crossings are supposed to get some kind of  
7 treatment. And examples of programs where we do  
8 that, we have the US DOT formula, the resource-  
9 allocation formula, and there are various state  
10 formulae.

11           Data are also used to help us  
12 determine which warning devices are more  
13 appropriate for a given crossing, and a couple of  
14 examples of programs to assist in that is the  
15 GradeDec allocation system, which has been  
16 created and is run by the FRA's office policy.

17           And there is also the FRA's quiet zone  
18 calculator, and some people are familiar with  
19 that. When you're trying to develop a quiet  
20 zone, we have an online tool that enables people  
21 to see what the effect of a change in the warning  
22 device would have on the risk that's present in  
23 that crossing.

24           And another purpose for the collection  
25 of data would include, say, the warning-device

1 evaluation: How effective is a particular  
2 warning device? And in that case, the example I  
3 have is the North Carolina field-corridor study.

4 Here I've just listed the data  
5 elements that are used in the US DOT resource-  
6 allocation formula, and this formula gets used in  
7 the quiet-zone calculator and is one of the  
8 formulae that can be used by GradeDec. And in  
9 fact a number of states also use this for their  
10 allocations.

11 My point here is that these are fields  
12 that are important for public-crossing  
13 evaluation. And the red box at the bottom  
14 outlines basically sort of whether or not that  
15 data would be available for a private crossing.  
16 So out all of those fields, you get -- sort  
17 of you get the warning devices present and you  
18 get accident frequency at private crossings.

19 This is just a quick shot of the  
20 quiet-zone calculator, and basically we have the  
21 same issue. The same fields are being required  
22 here, and you're going to have the same issue of  
23 most of these data not being available for  
24 private crossings.

25 In the past, a number of different

1 sources have recommended other data collection,  
2 and I'm not here just focussing on private  
3 crossings. If there are other data fields that  
4 people think are of value in determining risk at  
5 a crossing or anything like that, I encourage you  
6 to speak up and talk about it here today. I  
7 don't want to just focus on whether it's  
8 available for public and not for private.

9                   And to sort of spur that conversation  
10 on, I looked back at the NTSB study on passive  
11 crossings. They had some recommendations wherein  
12 they suggested that people collect information on  
13 the sight distance available, the presence of  
14 curves on the roadway or the tracks, angle of  
15 intersection or the presence of nearby  
16 intersections.

17                   And they had a catchall phrase in  
18 there about any other data that affects the  
19 safety at a crossing. And also we do collect  
20 latitudes and longitudes, but it may be possible  
21 for us to do even more with it than what we're  
22 trying to do.

23                   If anybody has any other suggestions  
24 about data, we'd certainly love to hear about  
25 them. Yes, sir?



1           MR. CAMPBELL: Miriam, I might throw out a  
2 few things to think about, and maybe this will  
3 spur the conversation a little bit.

4           Having done some research tools for  
5 some different railroads to do analysis of  
6 private crossings, you need to look at -- some of  
7 the things you need to look at are additional  
8 physical characteristics, like the approach and  
9 departure grade for the crossing on both sides,  
10 in both directions.

11           Another thing you need to know is the  
12 typical class of vehicle that operates over the  
13 crossing; like, for example, a residential  
14 crossing is more than -- in all likelihood it  
15 will be a passenger car, SUV, or pickup truck,  
16 you know, a smaller vehicle, where an industrial  
17 crossing will be a larger vehicle.

18           We did some rough analysis of the  
19 quality of the surface, because a degraded  
20 surface will obviously increase the time to  
21 clear. And then once you get those other  
22 elements with what NTSB has recommended, you can  
23 look at and develop essentially a clearing-sight  
24 distance.

25           In other words, for the given class of

1 vehicle, approach grade, distance across the  
2 crossing the NCUTCD, you can calculate a time  
3 required for that vehicle to be able to start up  
4 and clear the crossing. And it's important, one  
5 of the things that's happened at a lot of private  
6 crossings is installation of a stop sign. But  
7 when we introduce a stop at a crossing, the  
8 clearing-sight distance grows exponentially.

9                 So if you take the clearing-sight  
10 distance, then you can take the maximum  
11 authorized speed of the trains on that given  
12 section of the track and determine a sight  
13 distance that you need to be able to adequately  
14 clear, because some of the crossings we go in and  
15 put these treatments in, and we create a scenario  
16 where, based on physical characteristics,  
17 vegetation, either on or off the railroad right-  
18 of-way, generally off, it generally is crops or  
19 vegetation off the railroad right-of-way where  
20 you can't actually come to a stop to comply with  
21 the rules, start up and clear prior to train  
22 arrival at maximum authorized speed.

23                 So there are some inherent hazards  
24 that need to be understood, and collecting some  
25 additional data would help to be able to gather

1 that information.

2 MS. KLOEPPEL: And is that a complete list  
3 of the additional elements that you found useful  
4 or --

5 MR. CAMPBELL: As far as my brain right  
6 this minute. I could probably e-mail you a list  
7 of them all.

8 MS. KLOEPPEL: That would be great.  
9 Anyone else with other suggested data?

10 What about the prospect of requiring  
11 for private crossings the same data that you have  
12 for public crossings or these critical fields  
13 that are used in evaluations? Mr. Shrewsberry?

14 MR. SHREWSBERRY: Well, I like what Rick  
15 was saying about the classifications a little bit  
16 more from a semipublic to fully private. But one  
17 of my concerns as an engineer, although we're  
18 involved in the public crossings, which are  
19 parish or counties or cities or states approach  
20 roadways, we have issues collecting data as far  
21 as the traffic for these public reads.

22 It would be very, very difficult to do  
23 it for private, you know. But I think the way  
24 Rick's presented this option would be good to  
25 look at and get some guidance federally from

1 that, you know, that I just don't think it's  
2 really feasible to get all the data that for  
3 every one of these crossings.

4 We've got almost as many private  
5 crossings as public, and we work to try to keep  
6 our data fairly well up to date, but I just don't  
7 think it's realistic to get the other data for  
8 the private ones.

9 MS. KLOEPPPEL: Yes, sir?

10 MR. MEYER: I just want to second that  
11 point. As I understand it, we have a tremendous  
12 number of private crossings all over the system,  
13 many of which may see only a handful of vehicles  
14 a day.

15 Furthermore, some of these are dirt  
16 roads, which makes data collection even more  
17 difficult, because the -- somebody can correct me  
18 on whatever these vehicle-counting devices are --  
19 they usually lay some kind of tube across the  
20 road.

21 From what I understand, those are  
22 ineffective on dirt roads, because you actually  
23 have to have a live human being counting every  
24 car that goes by, so realistically it would be a  
25 nearly impossible task to achieve for every

1 there ways we can get at it without putting a man  
2 on the ground?

3 MR. MEYER: Gabriel Meyer, Union Pacific.

4 One thing we would be open to  
5 exploring would be, I think you're describing  
6 here, some kind of a proxy, some kind of  
7 statistical sampling process whereby we look at a  
8 certain number of private crossings in a given  
9 area that appear to have similar characteristics,  
10 and then we can use our data sample to  
11 extrapolate from there. I don't know exactly how  
12 we would pursue that, but again, it's something  
13 we would be willing to consider.

14 MS. KLOEPPEL: Mr. DePaepe?

15 MR. DePAEPE: Tim DePaepe, Brotherhood of  
16 Signalmen.

17 I want to step back just a little bit  
18 when it comes to identifying. Before breaking  
19 down into various types, semiprivate and private,  
20 my comments are mainly directed at Class I right  
21 now, but they will expand to Class II railroads.

22 A lot of railroads are doing GPS  
23 mapping of their territories and their  
24 properties. As they do this type of mapping,  
25 they should be able to identify the exact

1 private crossing.

2 MS. BRUNTE: (Inaudible) right-of-way  
3 issues can be (inaudible) obstruction (inaudible)  
4 bushes on a lot of issues (inaudible).

5 MR. TESSLER: Excuse me. Before you make  
6 a comment, could you introduce yourself so the  
7 court reporter can -- and obviously she can't  
8 hear you.

9 MR. MEYER: Gabriel Meyer, with Pacific  
10 Railroad.

11 MS. BRUNTE: Kim Brunte.

12 MS. KLOEPPPEL: Well, if we acknowledge  
13 that not all fields can be readily collected, are  
14 there proxies? Are there other ways to get at a  
15 sort of what -- what if we grouped crossings?  
16 I'm just talking off the top of my head here.  
17 You can shoot me down.

18 Suppose we had the private crossings  
19 and the semiprivate crossings and the public  
20 crossings. Within the private category, what if  
21 you had just sort of boxed-in categories: You  
22 had fewer than ten vehicles a day or fewer than a  
23 hundred vehicles a day? And then in semiprivate  
24 you'd probably have more opportunity to collect  
25 the data. But also in other types of data, are

1 location of any crossing, be it public, private,  
2 semiprivate, or highway-rail grade, to get exact  
3 longitude and latitude locations of where these  
4 are at.

5           Then once you have that data, you can  
6 break it down into the smaller categories if you  
7 want. That's the first problem, because, as you  
8 know, with both public and private crossings,  
9 regardless if passive or active, they're  
10 miscategorized, and that database is still not  
11 one hundred percent correct. That's how you get  
12 the total amount of crossings and exactly where  
13 they're at. Then you can break it down from  
14 there.

15           My recommendation, as I've said in the  
16 past at other forums, we're not leery of any  
17 regulation, but if they're going to use these  
18 technologies, they should be required to do that  
19 specific type of mapping when they map their  
20 territory for their turnouts and everything else.  
21 They should be required to map every crossing, be  
22 it stone, rock, asphalt, or whatever.

23           MS. KLOEPPPEL: Thank you. Mr. Browder?

24           MR. BROWDER: Bill Browder, Association of  
25 American Railroads.

1                   Let me preface my remarks by  
2 reiterating from 23 CFR the FHWA highways portion  
3 that railroads derive absolutely no benefit from  
4 highway-rail grade crossings. Therefore, any  
5 enforcement of potential actions by government  
6 agencies, including the FRA, need to have a  
7 substantial safety basis, including the  
8 collection of data.

9                   And the reason that I would suggest  
10 that is because AAR has concerns about the  
11 expenses involved for our members in these  
12 endeavors. I can tell you from my thirty-six-  
13 plus years' experience with Class I railroads  
14 that we don't have an excess of staff  
15 engineering, operations, transportation people to  
16 collect, maintain, conduct diagnostic testing of  
17 these particular crossings. Okay. That's my  
18 preface.

19                   Now, back to the subject at hand,  
20 taking another step back with Timmy, he's flashed  
21 up the inventory form up there, and I can relate  
22 to the public inventory form, which is a  
23 partnership between the highway authority and the  
24 railroad or the rail operator for that territory.

25                   Now, for the part you have in blue for



1 the private crossings, do you have any  
2 perspective on who are the people who submit that  
3 for private crossings? That's a yes-or-no  
4 question, and if it's a yes, maybe you can give  
5 us a number or a percentage.

6 MS. KLOEPPPEL: I don't -- I believe it  
7 would be a hundred percent railroad.

8 MR. BROWDER: That would be my first  
9 guess. And you're talking about expanding this  
10 forum into areas that are in my opinion somewhat  
11 unrelated to the expertise, let alone  
12 capabilities, of the railroad to collect.

13 Whether the data-driven information  
14 could be useful to safety, we have always  
15 attempted to be good corporate citizens of local,  
16 state, and federal communities in conducting this  
17 thing.

18 In fact, AAR developed this form in  
19 the early '70s. And again, we're glad to share  
20 it with people and we were pleased, as a matter  
21 of fact, after I came with AAR in 1995, to see it  
22 renamed US DOT form from the AAR form. I  
23 certainly get less calls than I used to.

24 But seriously, I think it's something  
25 that we need to look after, because again, just

1 reiterating my point, I totally agree with you,  
2 Miriam. The railroads and my members and the  
3 short lines probably do submit a hundred percent  
4 of the information that you receive on private  
5 grade crossings.

6 I couple that with the idea that FRA  
7 is the regulator of the railroads, not the  
8 highway authorities or other people. And I get  
9 concerned especially since, if I remember  
10 correctly, this administration and previous  
11 administrations and friends in Congress have  
12 proposed that this inventory be mandatory and  
13 become part of the Code of Federal Regulations.

14 And in talking about it, it's going to  
15 put an additional burden on what I feel from my  
16 rough calculations, we probably spend in the  
17 neighborhood in terms of highway-rail grade  
18 crossings, 250 to 300 million dollars a year  
19 right now on those crossings. And --

20 MS. KLOEPPPEL: Nationwide?

21 MR. BROWDER: Excuse me?

22 MS. KLOEPPPEL: Nationwide, you're saying?

23 MR. BROWDER: Nationwide annually. And  
24 again, from the AAR's perspective for our  
25 members, have become very much concerned about

1 any additional monetary burden that may be placed  
2 on them in terms of developing data as such. And  
3 I would urge everyone to look at alternative ways  
4 and constructive means to obtain data that's  
5 safety related to improve the situation.

6 MS. KLOEPPPEL: Now you've beat me to the  
7 punch. I was going to ask if there were any  
8 suggestions for alternative ways, and it's  
9 obvious that this could -- I mean, a wholesale  
10 demand that everybody fill out all of the data  
11 elements for all private crossings would be  
12 obviously very burdensome, but I would love to  
13 hear from people about what they think in terms  
14 of other ways to get at the information or  
15 whether in fact all of it would be necessary.

16 MR. BROWDER: I was very much encouraged  
17 at a recent meeting in West Virginia, the Eastern  
18 Region Grade Crossing Conference by FRA's Tom  
19 Wall, who is involved with this inventory and  
20 some of the items that he distributed for making  
21 the inventory forms more user friendly.

22 And I understand secondhand, although  
23 I don't have the details, that there is some sort  
24 of a pilot project under way that would promote  
25 the electronic submission of the data for these

1 inventory forms to the inventory system.

2 I would share with you a comment from  
3 one of my members who told me antidotally that,  
4 given the opportunity and two or three hundred  
5 thousand dollars in money, that they could fix  
6 the problem of having to submit the current  
7 process on this inventory form which that member  
8 had told me cost them many, many times more than  
9 the current process.

10 And I would urge that maybe there's  
11 some kind of capability, notwithstanding the  
12 progress that Tom's making with the process, that  
13 this could be something to be considered, not  
14 just for private crossings but for the whole  
15 crossing-inventory program.

16 Now, I don't know the details, but I'd  
17 be more than happy to put you in touch with this  
18 member and see if they can put their mouth where  
19 their money is. I'm through.

20 MS. COOK: Okay. Bill, did you mean to  
21 say that the current process -- oh, I'm sorry.  
22 This is Carolyn Cook with the Federal Railroad  
23 Administration. Did you mean to say that the  
24 current process cost many more times than the  
25 process that (inaudible)?

1           MR. BROWDER: That's what I meant to say,  
2 is that this member claims, and I have no reason  
3 to doubt their claim, that with a good programmer  
4 and a couple hundred thousand dollars with a  
5 contractor, they could solve this problem that  
6 both the states and the railroads have with the  
7 submission of these inventory forms, both public  
8 and private, and make it so that it is a more  
9 current, effective tool that could be used in  
10 terms of data collection.

11                   What are you shaking your head for?

12           MS. KLOEPPEL: I think we would love to  
13 hear from this constituent of yours.

14           MR. BROWDER: Okay. Well, we're going to  
15 have to -- we'll do more than love to hear from  
16 him, but maybe we can talk, because I'm not  
17 familiar and AAR's not familiar with this  
18 process. I've been to the point where I've  
19 gotten so frustrated with the idea in the current  
20 format, even though I know the AAR would support  
21 such an effort, that I would be more than happy  
22 to approach this member and see if we can do some  
23 constructive things together.

24           MS. KLOEPPEL: Okay. Thank you. Mr.  
25 Shrewsberry?

1           MR. SHREWSBERRY: Bill Shrewsberry,  
2 Louisiana DOTD.

3           I want to just bring up a couple of  
4 things for the record. This initial inventory  
5 was basically developed for the Highway Safety  
6 Act about thirty years ago, and the form that's  
7 on there now is not necessarily the inventory  
8 that we started out with, nor that Louisiana has  
9 within our database system.

10           Some of this form was developed -- I  
11 know I had some concerns as a state when this  
12 form was introduced in the other fields and  
13 various responsibilities. Also the attorney  
14 general's office, the state attorney general's  
15 office and the department has been concerned  
16 about the regularly availableness of this  
17 information, which was developed for the purposes  
18 of engineering tools to help distribute limited  
19 federal railroad-safety funds.

20           There have been legal issues. I'm not  
21 an attorney. I'm going to try to see if the AG's  
22 office or someone else can better articulate what  
23 I'm trying to say. But there have been Homeland  
24 Security issues and other issues about the  
25 availability of the data that started out to help

1 evaluate the public at-grade crossings.

2                   You know, but since I didn't have  
3 much input on this form that's got developed  
4 here, one of the things Louisiana does in  
5 thinking outside the box is our most significant  
6 thing is to close crossings of convenience for  
7 effective consolidation.

8                   There's not a reference within the  
9 form what's up and down the line in all of this  
10 thing, the proximity of crossing on the rail.  
11 Our database for Louisiana deals with rail, and  
12 there's a program that we have where computer  
13 people have set up one, two, three, four down  
14 that line.

15                   I don't think the inventory form was  
16 set up that way. But when we're looking at  
17 things to move into the future, we've got to look  
18 at closing public crossings and definitely  
19 consolidating these private crossings. And there  
20 doesn't seem to be a place within the individual  
21 form to deal with that.

22                   You know, one of the first things we  
23 asked when we got the surveys all over the state  
24 is, Can this crossing be closed? That's the  
25 first thing that we look at from our engineering

1 responsibility. And that needs to be addressed  
2 if we're going to be looking at these things.  
3 What's up and down the rail line is some of the  
4 other things.

5                   And that's just kind of thinking  
6 outside of the box for the record. Thank you.

7                   MS. KLOEPPPEL: That's what I was hoping  
8 for. Thank you. Anyone else have any additional  
9 comments about the types of data that might be  
10 valuable? Carolyn?

11                   MS. COOK: Carolyn Cook with FRA.

12                   Does GradeDec have the ability to look  
13 at a corridor by linking in the information and  
14 bringing in the mile posts and DOT? Is that a  
15 tool that would be good for corridor analysis?

16                   MS. KLOEPPPEL: It's intended for corridor  
17 analysis, but I'm not sure how it -- it may rely  
18 upon the user to tell it what the crossings are  
19 in the corridor. I don't think that they have  
20 any fancy algorithm to identify subdivision and  
21 division and mile post or anything like that.

22                   Anyone else? Well, I thank you all  
23 for your comments. We have one in the back?

24                   MR. ZELLER (phonetic): Yes. Just a quick  
25 one. I'm Pete Zeller, for Laredo.



1                   I was just going back to your data and  
2 your chart there. It seems like we need to  
3 figure out what "other" is, because you've got  
4 thirty percent of your accidents occurring in a  
5 category that you have no clue as to what type of  
6 crossing it is.

7                   MS. KLOEPPPEL: That's a good comment. How  
8 should we get that data? I'm just being mean.  
9 Thank you for your comment.

10                  MR. ZELLER: Well, no. I can go to -- you  
11 know, talking about the funding, the fuel tax  
12 would have been a great way to fund it.

13                  MS. KLOEPPPEL: Interesting point.

14                  MR. BROWDER: Whose fuel tax are you  
15 talking about?

16                  MR. ZELLER: Yours.

17                  MS. KLOEPPPEL: Mr. Campbell?

18                  MR. CAMPBELL: Rick Campbell. Miriam, are  
19 you going to move on to other elements or are you  
20 going to --

21                  MS. KLOEPPPEL: We can, but I'm trying  
22 to --

23                  MR. CAMPBELL: Well, what I wanted to  
24 clear up, and maybe it's relevant to stick this  
25 in now. This isn't a data-related issue, but two

1 or three people have mentioned in discussion and  
2 comments made about my suggestion of a third  
3 category, and two or three times I've heard the  
4 term "semiprivate." And I want clarify that.

5 I specifically called it a semipublic  
6 crossing. And let me read from NCUTCD in chapter  
7 1. We have a series of definitions, and number  
8 56 is a public road. And it's "any road or  
9 street under the jurisdiction of and maintained  
10 by a public agency and open to public travel."

11 Now, I think we can split the  
12 categories to semipublic and private pretty  
13 simply if we take the public-road definition and  
14 say, "Any road or street under the jurisdiction  
15 of and maintained by a private entity and open to  
16 public travel," and a private road or a private  
17 crossing could be "any road or street under the  
18 jurisdiction of and maintained by a private  
19 entity and not open to public travel."

20 So I split those categories out, but I  
21 think it's important that we consider semipublic.  
22 And part of the idea, we've had some conversation  
23 over lunch, and one issue was in regards to the  
24 consolidation plan that Mr. Bertel had talked on  
25 his railroad, and one of the elements that I

1 talked about as part of my proposal was that a  
2 private crossing would include a driveway or  
3 access way for a single residence.

4 Now, the type of plan that was  
5 proposed with a consolidation project where  
6 driveways from multiple homes were consolidated  
7 to a single crossing, that would change the  
8 status of that crossing from private to  
9 semipublic.

10 And part of the logic behind the whole  
11 semipublic thing is that FRA, either through  
12 their regulatory process, and hopefully in  
13 conjunction with FHWA, a key player with this,  
14 through this designation of semipublic, would  
15 pull in the availability in some instances of the  
16 use of public funds, and that the designation or  
17 determination to do that would be made as part of  
18 the diagnostic process, so all elements of the  
19 diagnostic process at a semipublic crossing would  
20 apply, including determination as to adequacy of  
21 traffic-control devices.

22 It could be, if a semipublic crossing  
23 it to serve a mall owner, that it's determined  
24 that a hundred percent of the cost of the devices  
25 and maintenance would be paid by the property

1 owner. But in the case of a semipublic  
2 crossing -- see, I'm making the same mistake -- a  
3 semipublic crossing that served residences, that  
4 there may be either a ninety-percent public share  
5 or some split as determined by the diagnostic  
6 team as to the types of devices and cost share  
7 and funding for these devices.

8 So there's some method to my madness  
9 about semipublic instead of semiprivate. I just  
10 wanted to kind of clarify the record on that.

11 MS. KLOEPPPEL: I very much appreciate the  
12 clarification. I'm sorry. I'm one of the guilty  
13 parties. Thank you. Yes, sir?

14 MR. ZELLER: Going back to your point, how  
15 do you get the data, as the gentleman pointed out  
16 here, you make the railroad provide the data.  
17 That's how you get it.

18 MS. KLOEPPPEL: Could you say your name  
19 again, please, for the court reporter?

20 MR. ZELLER: Pete Zeller, with Laredo.

21 MS. KLOEPPPEL: Thank you. Any other  
22 comments, questions?

23 MR. DePAEPE: Tim DePaepe on behalf of  
24 Railroad Signalmen.

25 I would just like to point out to all

1 the members here that many other parties have  
2 commented on this at previous public hearings,  
3 like my organization commented extensively about  
4 the definitions, because the original notice  
5 asked for specific comments on about nine  
6 different items. So if you'd like to see those  
7 comments without them all being repeated again,  
8 they're on the Web site. I'd like to be point  
9 that out.

10 MS. KLOEPPPEL: Thank you, Tim. I think  
11 we've sort of reached a lull in the conversation,  
12 and I may now rely on Anya Carroll to revive it.  
13 Thank you.

14 MS. CARROLL: Thank you. Good afternoon,  
15 everybody.

16 FROM THE FLOOR: Good afternoon.

17 MS. CARROLL: Nap time's over. What we're  
18 going to do for the second half of this afternoon  
19 is do some brainstorming. We're going to be  
20 creative. We've discussed a lot of topics about  
21 what types of data, how we use the data.

22 Well, now it's time to put on your  
23 thinking caps and think about, Well, how could we  
24 possibly collect this data? Let's think out of  
25 the box, as Bill Shrewsberry had mentioned. So

1 we're going to go through a number of scenarios  
2 here, and I'd like it to be interactive.

3 FROM THE FLOOR: There she is. Can't get  
4 away from that dog.

5 MS. CARROLL: That's my female black  
6 Labrador, Shadow. She's six years old.

7 So we've developed a scenario, maybe  
8 eight to ten scenarios that we would like to have  
9 you help us work through today, this afternoon,  
10 and brainstorm together as a community to see if  
11 we could come up with any answers.

12 So the first one is, and we've touched  
13 upon this a little bit, the one where the FRA in  
14 partnership with FHWA developed a secure Web site  
15 where states and railroads could log in their  
16 input data on the inventory. This is being done  
17 for private crossings, but also it would be  
18 available for public crossings.

19 MR. BROWDER: Haven't we already done  
20 that? That's what I just said a few minutes ago.

21 MS. CARROLL: You beat me to the punch,  
22 Bill. You were being creative before it was time  
23 to be creative.

24 MR. BROWDER: All right. I'll strike my  
25 comment.

1 MS. CARROLL: Is there -- do you have any  
2 feedback from the state of Louisiana? Is this a  
3 possibility? Mr. DePaepe?

4 MR. DePAEPE: Tim DePaepe, for the  
5 Brotherhood of Signalmen.

6 What's the motivation? Why do it with  
7 a secure Web site if they're not doing it now? I  
8 mean, I'm all for this. I think it's a great  
9 thing. But if it's not required as far as the  
10 priority list, this gets put way to the bottom.

11 MS. CARROLL: Accessibility and  
12 flexibility to be able to do it in an easier  
13 manner, to provide the data, whether it's  
14 mandatory or voluntary.

15 MR. BROWDER: The answer is, it's not at  
16 the bottom, Tim. Everybody does it now. All  
17 forty-nine states, all Class I railroads do it  
18 now. It's a very significant factor in looking  
19 at data, and they do it voluntarily. And it  
20 works very well, as it has for the last thirty  
21 years, when AAR had it.

22 And it will continue to work well,  
23 despite the inefficiencies of the current  
24 process. And if we could get by the inefficiency  
25 of the current process, we could do it better,

1 more efficiently and more timely.

2 MR. DePAEPE: I stand corrected. I  
3 appreciate the response, Bill. It's just in my  
4 personal experience out in the field, I've found  
5 that provided to leave wanting for better  
6 accuracy. But I stand corrected by AAR, and God  
7 bless them.

8 MR. BROWDER: To stand on what Tim's  
9 saying, it is very fortunate in the United States  
10 that a lot of his people from the BRS are now  
11 responsible for light-rail and transit facilities  
12 that are under construction or expansion in the  
13 United States, because in my view, this should  
14 not be an FRA endeavor. It should be DOT.

15 And I understand and I've heard Ron  
16 say it and other people say that this should be a  
17 one-inventory system for all of the highway-rail  
18 grade crossings. And as a matter of fact, Tom  
19 Wall and I work very closely with APTO to develop  
20 their standards and practices for grade  
21 crossings.

22 And quite frankly, the encouraging  
23 thing is that the signal maintainers and  
24 supervisors are the people that have ensured that  
25 a lot of these light-rail and rail-transit



1 crossings that are concentric to the ones that  
2 the Class I's have, have gotten into the system  
3 that FRA maintains for the DOT. So this system  
4 basically works. Could it be more efficient?  
5 The answer is yes.

6 MR. SHREWSBERRY: Bill Shrewsberry, State  
7 of Louisiana DOT.

8 I like this idea. Louisiana works  
9 very hard to upgrade its state internal database  
10 with regard to public crossings. You know, there  
11 are some things that are cross-referenced to the  
12 old grade crossing information form that was done  
13 over ten years ago for individual information as  
14 far as circuitry and other stuff.

15 If this could be made available, now  
16 we have old data to call the railroads and talk  
17 to us to try to enter it into our database. But,  
18 you know, our computer people would have to talk  
19 with y'all to be sure it is.

20 But we work real hard. Some of the  
21 railroads don't have the staff to update this,  
22 but we work hard to oversee the public program  
23 for our limited funds.

24 I think it is being done, but because  
25 of the problems with FRA and the communication

1 effort, we do not report to the FRA. We keep it  
2 internally and evaluate that, you know, when  
3 changes are made. And that's got to be resolved  
4 between our attorneys and what they tell us  
5 today. Thank you.

6 MS. CARROLL: Thank you. In the back?

7 MR. ZELLER: I was going to ask what the  
8 "secure" means.

9 MS. CARROLL: In this day and age of high  
10 tech, there are multiple ways that you could  
11 provide secure Web sites with multiple levels of  
12 log-ins, depending on what you want to give  
13 people access to. So one scenario would be  
14 similar to your logging in to get your e-mail,  
15 that if you are a state and you wanted to input  
16 for state data, that you log in with a secure  
17 password. And that allows you to change your  
18 data, but it doesn't allow you to change any  
19 railroad data.

20 MR. ZELLER: My question was on the lines  
21 of public records and public information and  
22 public information, knowing that some of this  
23 information would not be available to the public.

24 MR. COTHEN: Let me address that.  
25 Currently national inventory information clearly

1 is available online in full detail to anyone who  
2 wants it. And the Department of Transportation,  
3 U.S. Department of Transportation, does not  
4 consider any of that information to be security-  
5 sensitive information.

6           The individual states have their own  
7 issues and policies, depending upon their own  
8 state law, liability incurred and so forth, and  
9 under current circumstances we have no way to  
10 break through that. In fact I think what we're  
11 interested in maintaining for national purposes,  
12 which is a slightly different focus than the  
13 state DOT, which IS allocating resources in  
14 realtime, what we're looking at trying to do is  
15 to have a database program that is suitable for  
16 safety analysis.

17           It's suitable for safety analysis and  
18 it may be a basis for building tools that can be  
19 used in defining risk. Risk is the probability  
20 of a mishap times the length and severity of the  
21 mishap.

22           And we're not exactly where we need to  
23 be across the nation in that regard, with regard  
24 to our investment policies, but we're not far  
25 off, because almost everybody is looking at the

1 likely frequency of events and through the use of  
2 diagnostic teams and other risk-ranking factors.

3           The Federal Railroad Administration  
4 over the past few years has issued regulations on  
5 alerting lights, probably attributable to about  
6 ten-percent reduction in the collision rate out  
7 there from the mid-'90s forward.

8           Recently there have been requirements  
9 for locomotive reflectorization, freight-car  
10 reflectorization, which has sort of taken hold  
11 for freight or whatever. It may be a bust or it  
12 may be a boom. We'll see. But certainly, before  
13 it's over, it will be 1.6 million units in North  
14 American rolling stock.

15           And we have issued a (inaudible) rule  
16 which is affecting hundreds of communities across  
17 the community. In each of those efforts, we used  
18 all the safety data we could find that seemed to  
19 be relevant, certainly including the inventory  
20 data, as a basis for understanding what the  
21 exposure was.

22           We can't go much farther. We can go  
23 farther, but there's a limit to how far we can go  
24 in safety analysis on a national basis in order  
25 to build public policy and provide tools to all

1 of those folks who actually need to make things  
2 happen without having adequate data, particularly  
3 in the private-crossing areas we're discussing  
4 today, being able to associate that with  
5 collision risk and likely severity of those  
6 collisions.

7                   You know, we've talked earlier during  
8 the day about solutions that might be available,  
9 but all those solutions cost money, and may cost  
10 money because it's necessary to resolve disputes  
11 among folks who have an interest in crossings  
12 that could be in the category of excess  
13 crossings, depending upon the ability to  
14 consolidate money associated with doing  
15 engineering improvements.

16                   We've spent on the board of \$4 billion  
17 since the 1976 Act. If you upgraded that based  
18 on inflation, it still would be more than about  
19 probably ten, something like that.

20                   And then to talk about spending \$15  
21 billion on private crossings again, one tenth of  
22 the problem worked off, actually more like one  
23 fiftieth going back to 1976, something that's  
24 going to be hard to swallow for the public fisc  
25 at the national level, just as it be would be to

1 say the level for railroad grades to make  
2 contributions to it or individual property owners  
3 were asked to make contributions to it.

4           But why? We need to figure out where  
5 the biggest problems are. The only way to do  
6 that is to get the data to conduct analysis that  
7 doesn't disintegrate as not being statistically  
8 significant the first time somebody touches it.

9           And believe me, we have been in those  
10 disputes. It doesn't matter how much reason you  
11 use or how much common sense you use. People  
12 want statistical cases that are really nice and  
13 firm, and even then they're going to argue with  
14 you. So objectively, just having a good data,  
15 data of adequate quality to include reasonable  
16 currency, because things change out in the world.  
17 And if we can't get it all at once, we might just  
18 get enough of it early enough to make a  
19 difference in people's lives without breaking the  
20 bank. Yes, sir?

21           MR. SUAREZ: Mark Suarez, with Louisiana  
22 DOT.

23           The point I needed to make, when you  
24 say secure Web site, what is it secure from?

25           MR. COTHEN: Thank you for raising that

1 point. It's an ambiguous term. You can have a  
2 secure Web site that is secure insofar as it  
3 authenticates the user who's inputting data --  
4 that's the reference that Anya was making -- so  
5 that we know that it's Louisiana DOT or New  
6 Orleans and Gulf Coast Railroad or whoever it is  
7 who's entering the data in those respective  
8 fields, so the data is sourced. And I think  
9 that's what Anya was talking about.

10                   The second aspect of the problem at  
11 issue is access to the data. And we don't -- as  
12 I said, from our point of view we're looking to  
13 get data that we can work with it every day and  
14 have credibility in terms of the work that we've  
15 done with it for National.

16                   And I understand that that creates an  
17 issue for some states, and one would hope it  
18 wouldn't, because there's -- obviously there's a  
19 provision of federal law that's supposed to  
20 protect against misuse of data gathered in  
21 support of a Section 130 resource allocation.

22                   Why that isn't effective is difficult  
23 for me to say, but if -- you know, if we're going  
24 to get at the remainder of the highway-rail  
25 crossing safety problem in our generation, we're

1 going to need good data out. We're going to need  
2 enough of it for it to be meaningful, and we're  
3 going to have to understand a great deal about  
4 the richness of diversity within the data. Not  
5 every community is alike.

6           So there are things that we need to do  
7 from the federal level to make it more possible  
8 for state agencies or others to provide current  
9 data in sufficient detail. That could be  
10 certainly a subject of discussion here. Thank  
11 you for bringing us back to that.

12           MR. SUAREZ: The next point I wanted to  
13 make, Louisiana's legal jurisprudence, as I  
14 understand it, the term for this matter, our  
15 attorney general's office wants very much to meet  
16 with the FRA legal group to determine ways to  
17 protect that data, and we would provide it if it  
18 was protected from legal discovery.

19           If it's on a Web site that anybody can  
20 access, that means lawyers are going to sue us to  
21 access that data and use it against us, even  
22 though it's supposed to be protected. The  
23 attorney general's office pretty much has told us  
24 not to deliver the data that are not protected.

25           FHWA -- Mary -- she's not here --



1 verbally told me over and over again she concurs  
2 with the attorney general's office on that  
3 matter, because of the, I guess, more lawyers per  
4 capita than any other place. And so we're on the  
5 cusp of completely getting it stopped or not  
6 being able to stop it.

7                   And that, you know, as the gentleman  
8 said earlier, a lot of local judges have local  
9 constituencies and local flavors of the local  
10 lawyers, and they're going to rule in favor of  
11 those people for the state over the federal  
12 government if they get a chance to do it in some  
13 cases.

14                   But data has to be secured or somehow  
15 protected to where it can only be used for  
16 engineering reevaluation, not be used for legal  
17 discovery. I mean, that's what it supposedly  
18 says, but it's not quite the case.

19                   MR. COTHEN: Let me ask Mark Tessler for  
20 his recommendation. He's a lawyer and he sits in  
21 on those discussions, and I'm sure he'd welcome  
22 the opportunity to do so.

23                   MR. TESSLER: I'll speak to you. I'll be  
24 happy to meet with you folks.

25                   MR. COTHEN: I have a follow-up-question:

1 What success are Louisiana lawyers having at  
2 getting at the data currently?

3 MR. SUAREZ: Well, because it's not on the  
4 FRA database, they're not getting it. If it's on  
5 the FRA database, as it currently stands anybody  
6 can get to it, so it will be readily available  
7 for them.

8 And I guess I'm not saying they  
9 wouldn't use the data exactly verbatim, but they  
10 could pull together enough data to come up with  
11 some kind of semblance of "You're negligent" or  
12 "You're this" or "You're that" because of the  
13 preponderance of data that's out there.

14 They can find that data and use that  
15 data to develop their plan of attack to have an  
16 overall summary on how they would go after  
17 something. So absence of data means they got to  
18 figure it out on their own, and that's tough to  
19 do.

20 Now, if you have the data in front of  
21 you, you can twist data around and you can come  
22 up with some kind of preponderance that, okay.  
23 DOT and FHWA decided to work on this crossing.  
24 Why don't you work on these other fourteen  
25 crossings? Or why do you pick this one instead

1 of that one? Those kind of things.

2 I mean, that's supposed to be  
3 protected; right? But if they can get their  
4 access to it and somehow try to come up with some  
5 kind of negligence, local orders are going to  
6 rule. If you're going to have to go to federal  
7 court, you're going to have to go to the Supreme  
8 Court and things like that to get it overturned.  
9 So --

10 MR. COTHEN: So the compulsory process  
11 thus far has not been successful in requiring you  
12 to turn over your database to the lawyers?

13 MR. SUAREZ: No. They can't do it.  
14 That's how we've prevented it. But it's in the  
15 FRA database, which is currently available on the  
16 Web. It's there for them to use. I'm speaking  
17 to this matter, and I really think that I'm  
18 trying to explain something I have no expert  
19 ability to do so. I prefer the lawyers discuss  
20 this in great detail, and they can discuss it at  
21 a level of intelligence that we can't discuss  
22 here, because I just don't have that background  
23 and ability.

24 But I've heard them say over and over  
25 and over again that they want to talk to the FRA

1 before they give them the data and they want  
2 guarantees that the data won't be made available.

3 MR. COTHEN: Right. And you know, we're  
4 currently not in a position to give those kind of  
5 guarantees.

6 MR. SUAREZ: Right. So it would take  
7 changes in the law.

8 MR. COTHEN: One of the issues that we  
9 noticed for comment here was that we do need  
10 legislation related to the private-crossing  
11 issue, and we made legislation related to a  
12 variety of things. It might affect public  
13 crossings as well. And I don't know where that  
14 takes us, but it's certainly worthy of  
15 discussion, and there are a variety of ways to do  
16 that.

17 So just setting that issue aside for  
18 now, Mark, if you don't want to pursue it more  
19 here, we'll, I guess, pick up with Anya's  
20 (inaudible).

21 MS. CARROLL: Okay. Bill, did you have  
22 another comment to make?

23 MR. SHREWSBERRY: No.

24 MS. CARROLL: Okay. Well, that was  
25 thinking out of the box. We got lots of

1 interesting issues that came out of that what-if  
2 caution.

3                   Let's go to the next one: What if the  
4 state supplied information blocks 21 through 25  
5 on the US DOT crossing inventory forms that  
6 Miriam showed earlier were used in conjunction  
7 with a geographical information system platform  
8 to locate and map private crossings?

9                   This was mentioned, I think, by Tim  
10 DePaepe as far as the railroads' capability to  
11 collect this data for their own use. Does  
12 anybody have any thoughts on this particular  
13 scenario? Mr. Shrewsberry?

14                   MR. SHREWSBERRY: Bill Shrewsberry, for  
15 Louisiana DOT.

16                   When this was first brought up a while  
17 back, my concern as a state agency was, although  
18 we have gone out there and done some checks for  
19 GIS for public crossings, at private crossings  
20 could we be considered trespassers if we're going  
21 out there and doing a field survey?

22                   And some of these crossing are only  
23 accessible by the railroad and other things, so I  
24 don't necessarily think the state should be doing  
25 that if they want to go this way. I also think

1 it needs to be protected information. Thank you.

2 MS. CARROLL: So your point is that it's  
3 probably the railroad operator who has access to  
4 the crossing should be the responsible party to  
5 collect this data and use it in their platform?

6 MR. SHREWSBERRY: I don't think -- again,  
7 I don't think the states can just go out there on  
8 the railroad property or private crossings and  
9 get that data in an easy manner.

10 MS. CARROLL: Can I ask a clarifying  
11 question before we have another one? Does the  
12 state of Louisiana have a GIS platform base for  
13 their road network or their rail network or  
14 their --

15 MR. SHREWSBERRY: We do in theory, so --  
16 however accurate it is, just like some of the  
17 platforms of the FRA are different levels of  
18 accuracy. But -- I'm not the GIS expert, but I  
19 know we do have different areas that we're  
20 working with, and our computer people work with  
21 the FRA for the inventory database.

22 MR. SUAREZ: Right. Mark Suarez.

23 They use the ESRI platform for GIS,  
24 and we do have our state road network in there to  
25 a certain degree of accuracy. We have very poor

1 representation of the city streets and parish  
2 roads, and our primary focus is on funding of  
3 doing projects on the state system. So the other  
4 system is very much not a part of the mainstream  
5 GIS solution, because we have no jurisdiction  
6 over those city streets or parish roads. So --

7 MS. CARROLL: But DOTD does have the  
8 capability. They are -- they do have the GIS,  
9 however accurate and whatever characteristics it  
10 has.

11 MR. SUAREZ: It has an arc map or ESRI arc  
12 map.

13 MS. CARROLL: ESRI?

14 MR. SUAREZ: Yes.

15 MS. CARROLL: Yes?

16 MS. MEYER: Mary Beth Meyer, Christovich &  
17 Kearney law firm, representing NOGC.

18 My comment really is, we have an  
19 inventory, we have the data; but to communicate  
20 that would be very expensive. I mean, for us to  
21 input it, to draw it out -- I mean, how do we --  
22 is there a way to get that information to you  
23 that, you know, would not require administrative  
24 time that we don't have to give to that? It's  
25 expensive to ferret that information out. You

1 know, how would we do that?

2 MR. SUAREZ: Technically if you have the  
3 crossing number and the lat and long for the  
4 crossing number, it's a matter of -- it's in a  
5 spreadsheet format. It's a matter of seconds for  
6 inputting that data into a system if the lats and  
7 longs are accurate.

8 I mean, sometimes you put lat/long in  
9 a database and in a system, and the lat/long  
10 might end up in Texas instead of south Louisiana  
11 because there's an error in the data, a  
12 typographical error or something.

13 MS. MEYER: Talking about, like, Excel  
14 spreadsheets talking to your Excel spreadsheet,  
15 or --

16 MR. SUAREZ: Well, no. Do you know what  
17 the lat/long is, or latitude-longitude  
18 coordinate?

19 MS. MEYER: We have that information.

20 MR. SUAREZ: If you have that coordinate  
21 and it's accurate, you have it tied to the  
22 crossing number, it can be sucked into the GIS  
23 database in a matter of seconds and displayed in  
24 any existing map feature base.

25 MS. MEYER: Somebody has to type in, you



1 know --

2 MR. SUAREZ: If you have --

3 MS. MEYER: -- data-entry that  
4 information, that's part of my point.

5 MR. SUAREZ: If you have it on a  
6 spreadsheet, that's always (inaudible). If you  
7 don't have it in a -- if you have it in  
8 individual sheets, somebody would have to capture  
9 that data in one form, a spreadsheet, and then  
10 that could be entered, captured, and drawn into  
11 the database.

12 MS. MEYER: Electronically?

13 MR. SUAREZ: Correct.

14 MS. MEYER: Thank you.

15 MR. COTHEN: Let's just take a little  
16 detour to the sidetrack here, if you don't mind,  
17 and let Ron Ries address briefly with you some of  
18 the issues that we're looking at, the  
19 opportunities that we're looking at with regard  
20 to the inventory.

21 We understand that we have a  
22 responsibility on behalf of all stakeholders to  
23 make the process as easy as it can be made. I  
24 think that part of the difficulty is that we all  
25 use a different data format sometimes. We define

1 our fields differently.

2           There are even multiple ways to  
3 designate lat and long, apparently. At some  
4 point the Bureau of Transportation Statistics is  
5 supposed to resolve a uniform way of doing that,  
6 if they haven't already.

7           We would hope that the federal  
8 grantees would, over time, accommodate that, but  
9 we currently do accept in a prescribed format  
10 electronic downloads of information to update the  
11 inventory, so it's not a manual process.  
12 However, compatibility of databases is always a  
13 big issue. Ron knows more about this, so he can  
14 bail me out.

15           MR. RIES: That's exactly one of the big  
16 issues that we're dealing with as the states and  
17 the railroads develop databases for their -- to  
18 do their job. They each did it independently,  
19 and as a result, probably no two states' database  
20 or two railroads' databases are identical.

21           And so when you try and put that into  
22 one big database, you get all sorts of  
23 compatibility issues. So we have, you know,  
24 fifty states with different databases. We have  
25 650 railroads with different databases.

1                   And for example, if we code the DOT  
2 inventory codes crossing services 1 through 9,  
3 and state codes crossing services, you know, 1  
4 through 15, and a railroad does it A through E or  
5 whatever, getting that information to translate  
6 is a big issue.

7                   We've had some very serious  
8 discussions with our safety-data folks about  
9 looking at really analyzing and putting a  
10 contract out to look at ways that we can overcome  
11 these issues. So we're really looking at finding  
12 a way that we can make it easier for everyone to  
13 update.

14                   One of the things that we are doing  
15 proactively is we're working with one of the  
16 Class I railroads on XML format. I'm certainly  
17 not an IT person or a software person, but  
18 basically it's a software-driven Web-based system  
19 that will automatically check for accuracy and  
20 look for problems in the data development and do  
21 batch updates through the Internet almost  
22 realtime from the time it's put in. And we can  
23 take a look at the information and make sure that  
24 it fits right.

25                   Another thing that we are -- a couple

1 of other things that we're doing now, we  
2 inventoried and established some specific sets of  
3 business rules for the inputting of data to avoid  
4 the issue of states providing information in a  
5 certain data element; the railroad comes in,  
6 provides information, and that same data element  
7 wipes out the information. So every data element  
8 will have pretty much just one party that would  
9 be -- that we would accept that data from.

10 Certainly we would work in conjunction  
11 with the state; say, you know, "We'll be the  
12 clearing house. The railroad should give us the  
13 information, and we'll send it on to FRA." And  
14 we'll certainly accept that type of information  
15 as well. Those rules are in place.

16 About four years ago we had a series  
17 of outreach meetings on the inventory and what's  
18 needed, what would be desired, ways we can make  
19 it better. And we're very close to putting out  
20 summaries of that and actually encourage you to  
21 be checking your e-mails, looking for inventory  
22 contacts, passing the word on down, because we'll  
23 have something on there for you to look at in the  
24 very near future.

25 Then the other thing -- this is part

1 of the lat/long, the GIS system -- we also are  
2 setting up lat/long boundary rules, so if we get  
3 a lat/long and it's supposed to be in the state  
4 of Louisiana and it shows up in Texas, we're not  
5 going to accept that.

6 We need to narrow that down to within  
7 a county, and we're looking at protocols to help  
8 assure that the information that's in there now,  
9 the information is submitted (inaudible).

10 We're looking at data elements that  
11 are entered in the (inaudible), and we certainly  
12 have issues like that. And we do take electronic  
13 in almost any format you can think of for  
14 updating inventory from database to Excel sheets.  
15 We have several products that FRA has developed  
16 itself for that.

17 So we really do -- we hear very loud  
18 and clear we have issues with making it more  
19 easier and more productive for putting  
20 information into the inventory, and we are  
21 looking at attacking it from several different  
22 directions right now.

23 MR. BROWDER: Any more questions to go?  
24 While you're waiting for that, may I make one  
25 other comment? Bill Browder, from the AAR.

1                   I notice one group that is noticeably  
2 absent from today's session, and I really  
3 wouldn't have thought about them except that  
4 today's session is on data -- is that there have  
5 been a number of states who have their own state  
6 inventory system that have used contractors to  
7 create and update and maintain these states'  
8 systems.

9                   And Anya, you're asking a lot of  
10 questions that, when I think about it, you ought  
11 to ask them, too, because they've got a wealth of  
12 experience. The first one that comes to my mind  
13 is Ohio. I know that Susan Kirkland and the Ohio  
14 Rail Development Commission paid big bucks to  
15 some contractor that I met at a regional meeting,  
16 and there are others out there.

17                   And you guys probably know them better  
18 than I ever would, but there's a resource that  
19 you ought to go to if you're looking at data  
20 collection, and get their feedback on what they  
21 think, not only of your ten questions -- I'll be  
22 glad to give -- and will tell you what I think of  
23 the ten questions, but also what they have for  
24 input to the system itself.

25                   Are you back up?

1 MS. CARROLL: Getting there.

2 MR. BROWDER: That's what they say about  
3 me sometimes.

4 MS. CARROLL: I know there are numerous  
5 states that have actually worked on automating as  
6 much as they can and integrating it into more a  
7 multi-use database. Texas is one. Illinois is  
8 another state that we could work with on a case-  
9 study basis, possibly, to determine best  
10 practices for data collection using their  
11 contractors. So I think that's a very good  
12 comment, and we've captured it.

13 Sorry. Please excuse the  
14 technological interruption. The plug was  
15 unplugged from the wall.

16 MR. BROWDER: I feel like I know this dog.

17 MS. CARROLL: Shadow's a good girl. What  
18 can I say?

19 MR. BROWDER: I'll bring my dogs.

20 MS. CARROLL: I actually was asked at our  
21 last meeting for an autographed picture.

22 MR. RIES: Bob, while we're finishing up,  
23 just to sort of let you know, we've sent out over  
24 700 invitations twice or three times for this  
25 meeting, and all the state inventory contacts and

1 Section 130 folks were all made aware of this.  
2 So we -- one of the things we will be doing is  
3 looking at ways we can improve the inventories  
4 and certainly getting information from the people  
5 that use it on the state and locals that are out  
6 there.

7 MS. MEYER: I'm just curious about what  
8 kind of interface you have with the Surface  
9 Transportation Board about these issues and the  
10 economic implications of a lot of these  
11 proposals. Are you talking to the Surface  
12 Transportation Board about any of these issues?

13 MR. COTHEN: FRA briefs STB on issues from  
14 time to time. We do not have an active dialogue  
15 with the STB at this point on any crossing issues  
16 of which I'm aware, and we're certainly happy to  
17 do so.

18 As you know, the STB functions much  
19 differently than the executive agency, and they  
20 do their business in a rather more formal way.  
21 So when we provide briefings, it's a very tightly  
22 targeted subject matter, relevant and in an  
23 appropriate format and forum. It's something we  
24 think we should be doing. And --

25 MR. RIES: Also, I was just going to say



1 we have occasions when we work to provide data.  
2 One example is when the STB was looking at the  
3 D&E Powder River Culm Basin. We provided a lot  
4 of coordination on grade-crossing incidents and  
5 inventory through that, in that process. So  
6 there are some times when there is discussion  
7 with that.

8 MS. CARROLL: Mr. Browder?

9 MR. BROWDER: Just one brief comment,  
10 Grady, was -- Bill Browder again, from AAR.

11 You've jogged my memory. I'm so  
12 doggone old that I forget. But during the heat  
13 of the Conrail/Norfolk Southern/CSX situation, it  
14 came to AAR's attention, and we actually made  
15 this recommendation as part of a policy to  
16 Administrator Molatores, that they consider a  
17 formal relationship with STB in consideration of  
18 abandonments and changes whereby it would be a  
19 requirement that crossings involved in those  
20 processes be provided for use in relation to the  
21 US DOT inventory.

22 I don't think it ever was pursued. I  
23 could be wrong. But the idea would be -- and it  
24 came from the fact that one of your staff, Ron,  
25 told me that he had 6200 crossings in

1 Pennsylvania that were not resolved as far as  
2 status was concerned, and that obviously it had  
3 come about through holes in the crack between the  
4 Conrail to CSX and NS situation.

5           And one way to overcome that issue  
6 would be an application to the STB that it  
7 require that such be included, as it does now,  
8 that the administrator included -- and this was  
9 another one of our suggestions -- that the train  
10 traffic sign that's been incorporated into the  
11 FRA practice for changes that come about as a  
12 result of change in ownership, that that's  
13 something that you might want to consider and  
14 would provide an excellent resource in data.  
15 That's it. Sorry for reminding.

16           MR. COTHEN: That's good.

17           MS. CARROLL: We talked a little bit about  
18 this. What if states were required to collect  
19 the data on private crossings? And we touched on  
20 this a little bit. Mr. Shrewsberry?

21           MR. SHREWSBERRY: Bill Shrewsberry,  
22 Louisiana DOTD. Not a good idea.

23           MS. CARROLL: Bill, I think you were out  
24 of the room when Bill made this comment a few  
25 minutes earlier. And you had referred to a

1 statement or a premise before that you think that  
2 it's the railroads that provide pretty much all  
3 of the private-crossing data to the FRA.

4 MR. BROWDER: Miriam first made that. I  
5 just affirmed it.

6 MS. CARROLL: Okay. Well, Bill mentioned  
7 that as he, as a state employee, may be  
8 considered a trespasser on private property if he  
9 were going to try and collect data from a grade  
10 crossing.

11 MR. BROWDER: That's an interesting  
12 perception. I don't know that it would have a  
13 factual basis, but anything's possible.

14 MS. CARROLL: Yes?

15 MR. BERTEL: Rick Bertel. As an operator  
16 of a railroad that's been there 120 years here in  
17 the state of Louisiana, as late as last week I  
18 was accused of being a trespasser on my own  
19 railroad. So, you know, all of this data  
20 collection is -- I support it, I applaud it. It  
21 will make neat charts and graphs. I know we need  
22 data for everything.

23 But I'm just trying to figure out is  
24 in my lifetime, are we going to talk about a  
25 solution to the private-crossing problem that

1 deals with what we're here to talk about?

2 MS. CARROLL: I'll divert that question to  
3 Grady.

4 MR. BERTEL: They're part of inventory. I  
5 can't keep up with them, because they keep  
6 putting them in so fast I have no authority from  
7 anywhere to stop them.

8 MR. BROWDER: But you're not going to get  
9 the funding without data, and the data supports  
10 funding requests. Analysis of the data requires  
11 the proof that there's an issue here that has to  
12 be solved, so you got to have the data to have  
13 the analysis to have the funding. So it's like a  
14 circular Catch-22.

15 MR. BERTEL: But have we not proved any  
16 data with the public crossings over the fifteen  
17 or eighteen years that we've been doing this?

18 MS. CARROLL: Oh, we've decreased the  
19 incident rate by close to fifty percent. We've  
20 been very successful.

21 MR. BERTEL: Is there any relationship  
22 between a public crossing and a private crossing?

23 MR. COTHEN: One of the interesting  
24 questions is whether or not the models that we  
25 use to evaluate the likelihood of future events

1 at public crossings, whether they're transferable  
2 or not. It would be nice to be able to do a good  
3 study to test the hypothesis that that's the  
4 case.

5 Let me just say one thing. We have  
6 our colleagues from the city of Laredo back here,  
7 but I do want to say that we're letting -- we're  
8 trying to let you all talk. If you want to hear  
9 us talk, you'd better look at your watch, because  
10 we do have to be out of here before 5:00, but I  
11 assure you we won't be out of here a minute  
12 before 5:00.

13 The FRA team, individually and  
14 collectively, is beginning to acquire some views  
15 on the subject. Mark Tessler and I were involved  
16 in the 1994 session on private-crossing  
17 guidelines which FRA drafted and put on the  
18 table. It's remarkable the number of themes from  
19 that document that are similar to the filing by  
20 the New Orleans and Gulf Coast Railroad.

21 And the railroad said, "No. We don't  
22 want guidelines." And we said, "Well, the  
23 administration's changing. The administrator's  
24 interested in private crossings. Seems like it's  
25 going by the board. We're going to have to come

1 back to this at some point." And here we are.

2                   And you know, it's our desire at this  
3 point to put together a package of suggestions to  
4 the federal railroad administrator, and he'll be  
5 chairing the last of these meetings in Syracuse,  
6 hopefully in February, and come out with some  
7 sort of policy on this issue in consultation with  
8 our colleagues in the US DOT.

9                   And then that could send us to a  
10 legislative proposal, a regulatory proposal, a  
11 suggestion that this -- we're going to be chasing  
12 our tails forever, and that there's nowhere to  
13 go, and therefore over the next decade we're  
14 going to have to accept on the order of 400  
15 fatalities. I don't think that's the answer,  
16 that last one.

17                   MS. CARROLL: Sir?

18                   MR. ZELLER: I just wanted to address that  
19 very thing: Exactly what would it take to  
20 implement something, to mandate the states to do  
21 it? Would it take an amendment to the just-  
22 passed transportation bill, or is it something  
23 that would be done in the reauthorization that's  
24 coming up in three or four years?

25                   Exactly how would that be done? I

1 think we spoke to that issue of the legislative  
2 process, to actually do that, force the states to  
3 do it. I don't know that it's necessarily a bad  
4 idea. They're likely to push it down to the MBO  
5 anyway.

6 MR. COTHEN: And again, we've got two  
7 subject matters here: One is keeping the  
8 inventory current and at as high quality as  
9 possible. And we introduced that issue of  
10 additional data elements may be useful for both  
11 public and private crossings.

12 That's a bucket of issues right there;  
13 okay. That bucket of issues, we have previously  
14 addressed some portion of them that made  
15 legislative proposals from US DOT that we make  
16 updating of the inventory periodically a  
17 mandatory item.

18 But that doesn't answer the question  
19 about the other bucket, and that's the unique set  
20 of problems associated with private highway-rail  
21 crossings with which we've done much less work  
22 over the years, I think we can say collectively  
23 in the room, everybody perhaps except the  
24 railroads. And you can see an excellent example  
25 this morning: a short-line railroad has done

1 extensive work in the area with little  
2 satisfaction.

3                   But from the public sector, our  
4 contributions have been minimal. And the  
5 question before the house is, Is there more that  
6 we could do productively, cost effectively, from  
7 the point of view of having it be a safer place  
8 out there for the users of those crossings,  
9 whether it be the railroad or the road user?

10                  MS. CARROLL: Thank you, Grady. We're  
11 going to try and move through these questions a  
12 little bit more quickly. What if the railroads  
13 were required to collect the data on private  
14 crossings? Consensus, opinions? The statement  
15 was made that --

16                  MR. MEYER: Gabriel Meyer, Union Pacific.

17                    I just want to restate what I already  
18 said earlier: For us to go out and collect data  
19 on all of the private crossings would be a  
20 monumental burden, and I would question what, if  
21 any, benefit is going to come from that.

22                  MR. BROWDER: And Bill Browder. I would  
23 question our authority to obtain data on private  
24 crossings.

25                  MS. CARROLL: You mean the highway data?



1           MR. BROWDER: Yeah. Highway, any data. I  
2 mean, you don't clarify the data that you're  
3 talking about, so I'm not going to clarify the  
4 data that I'm going to collect. I'll just make  
5 it all-encompassing, as you have --

6           MS. CARROLL: Okay.

7           MR. BROWDER: -- and say it's of -- you  
8 know, I don't know that we could do it.

9           MS. CARROLL: Okay. Any other comments on  
10 the question?

11                   Moving right along, what if the  
12 federal government created a team to collect the  
13 data?

14           MR. HARRIS: We'd all agree with that.

15           MS. CARROLL: Your name, sir?

16           MR. HARRIS: Randy Harris, CN. I've got  
17 agreement: The burden on the railroad would  
18 be -- I mean, look at the job we're doing now.  
19 To be honest with you, none of our inventories  
20 coincide with the federal government, let alone  
21 with the states, the individual states we operate  
22 in.

23                   I've recently done some work on our  
24 inventory from Memphis south down through here,  
25 and I couldn't believe the discrepancies between

1 our inventory, the GS 32, the FRA's database, and  
2 the individual states' inventory. If someone --  
3 if there was one person that could do it all and  
4 farm it out to the railroads and the states, it  
5 would be wonderful.

6 MS. CARROLL: Can anybody else comment on  
7 that?

8 MR. BROWDER: It's hard to conceive --

9 MS. CARROLL: Mr. Browder?

10 MR. BROWDER: This is Bill Browder.

11 It's hard to conceive that a railroad  
12 person would make that comment in light of the  
13 fact that we, the railroads, are the ones who  
14 submitted the data originally to FRA. So where  
15 is the disconnect? I would maintain it's not  
16 with the railroads. It's with the process.

17 MS. CARROLL: Any other comments?

18 MR. MEYER: Gabriel Meyer, Union Pacific.

19 Just as an observation, this is  
20 something that I think we would seriously  
21 consider if it were offered on the table. The  
22 one observation I would have about this, and I  
23 think it's a positive one, is that if you had the  
24 federal government doing this, there would  
25 probably be much more uniformity in the data

1 collection.

2                   And although I don't have firsthand  
3 knowledge of how one railroad's data collection  
4 may differ from another's, I think anytime you  
5 have one central body with its own formal rules  
6 and procedures for collecting the data, I think  
7 overall quality of the data gathered will be  
8 better. It's like apples to apples as opposed to  
9 apples to oranges.

10                  MS. CARROLL: Thank you. I think that's a  
11 very good comment. Anyone else?

12                   Moving along, what if track geometry  
13 cars were utilized to automate their data  
14 collection at private crossings?

15                  MR. RADDY (phonetic): Paul Raddy, Union  
16 Pacific. The Union Pacific already has on track  
17 precision-measurement vehicles that measure  
18 locations for signals and crossings, and that's  
19 been in place for years. I don't know how or if  
20 that information is available.

21                  MS. CARROLL: Does that include private  
22 crossings as well as --

23                  MR. RADDY: All of the crossings.

24                  MS. CARROLL: All road crossings.

25                  MR. BROWDER: Yours gets submitted,

1     though, doesn't it, your grade-crossing  
2     information from the track geometry cars?

3             MR. RADDY:   There was a point brought up,  
4     too:  We don't go down our yard tracks, so it  
5     wouldn't necessarily cover integrity, but it does  
6     cover many lines at this time.

7             MS. CARROLL:  And how many miles per year  
8     do you cover?

9             MR. RADDY:  I'm not sure what the total  
10    is.  I know the entire system has been covered.

11            MS. CARROLL:  Okay.  Any other railroads  
12    have a comment?  Mr. Browder?

13            MR. BROWDER:  Automate the data-collection  
14    system.  Basically I think there's some railroads  
15    that are doing that now and incorporate that into  
16    providing changes and updates to the inventory  
17    system.  But that's a very limited number of  
18    fields in the total collection of the data.

19                    You're not talking about trying to  
20    collect -- I mean, there's a wealth of other data  
21    that is included on that inventory form that has  
22    absolutely no relation to the track geometry  
23    cars, such as train speeds, number of trains,  
24    capacity.

25                    Number of tracks might be able to be

1 collected, but there are a number of other areas,  
2 and certainly the highway side of the information  
3 would not be able to be collected by a track  
4 geometry car.

5 MS. CARROLL: Not to say that all the data  
6 could be collected, but pieces of the data may  
7 be -- could be automatically collected to feed  
8 into the entire database. Anybody else?

9 MR. RIES: I was just going to point out  
10 for the benefit of the discussion that Bill is  
11 certainly right: There is data out there that  
12 could be captured by track geometry cars.

13 There's also some other things that  
14 with some of the technology that's out there, and  
15 demonstration of a laser linear (phonetic) system  
16 that could be mounted on a track geometry car,  
17 and the resolution to get to the back of it, and  
18 even how many tracks, measure the width of the  
19 crossing and all sorts of other.

20 So there's some technology out there  
21 that, you know, probably goes above and beyond  
22 just lat/long, but certainly they don't capture  
23 just one particular part of it. I think  
24 currently in the DOT inventory about eighty  
25 percent of the records have lat/longs on them.

1                   Some of them are actual measures -- I  
2 think the majority of them are actual measures  
3 interpolated by other GIS systems, and  
4 (inaudible) did some work with us on that.

5                   We also are taking the office policies  
6 GIS system and doing a match on what they have on  
7 their system for records of grade crossings and  
8 matching it to the DOT inventories and finding  
9 the mismatching and working on resolving that.

10                  MS. CARROLL: Does anybody else have a  
11 comment on this one? Okay.

12                  No. 7: What if in the course of  
13 responding to a mandate on private-crossing  
14 agreement the railroad is required to assign a  
15 crossing ID number and update the US DOT crossing  
16 inventory?

17                  MR. BROWDER: Well, who does it now but  
18 the railroads?

19                  MS. CARROLL: Well, we -- obviously I  
20 don't think we know who's supplying it. It's a  
21 question that I think we need to answer as to  
22 who's supplying the private-crossing data. You  
23 seem to indicate and think it's a hundred percent  
24 of the railroads that's responding.

25                  MR. BROWDER: Well, again, and Miriam did,

1 too. I think that that's factual, that at least  
2 the vast lion's share of the information being  
3 submitted on private crossings and ID numbers --  
4 I know that when it was initially done and when  
5 it's updated, including the track geometry car-  
6 type things, that the submissions come from the  
7 railroads on private crossings.

8 MS. CARROLL: Okay. Anybody else?

9 MR. DRAKE: Tom Drake, FRA.

10 Anya, I think I understand what you've  
11 got here on No. 7. Are you saying that -- are  
12 you suggesting that the government mandates a  
13 uniform private-crossing-agreement scheme? Okay.

14 I think that would be a good idea,  
15 because we don't have it right now, and here in  
16 Louisiana we've heard the problems this morning.  
17 I've not seen that problem in Region 3. Maybe  
18 we're fortunate.

19 How about, as well as being required  
20 to assign a crossing ID number and update the  
21 crossing inventory, what about the civilian party  
22 to the agreement? In other words, the user makes  
23 this part of their consideration for getting the  
24 agreement, let them absorb the burden. They want  
25 the agreement, they want the crossing.

1                   The crossing, as stated earlier, is of  
2 no benefit to the railroad. It is to the user.  
3 And this would be a small price to pay with a  
4 tax, if you wish, a safety tax. But it could be  
5 applied evenly at probably a fairly low cost.

6                   Here I am being generous with the  
7 taxpayers' money, but we do that sometimes. But  
8 I think that would be a good idea.

9                   MS. CARROLL: So you would include the  
10 private property owner as supplying basically the  
11 roadway data to supplement the railway data?

12                   MR. DRAKE: Let them participate.

13                   MS. CARROLL: Yes, sir?

14                   MR. WHITEMORE: Shane Whitemore, CSX  
15 Transportation.

16                   As part of this process, if you're  
17 suggesting that as somebody comes to the railroad  
18 and if you mandated an agreement process, you  
19 know, and you have categories of crossings that  
20 they have to fall into a certain briefing that  
21 they have to have a primary agreement with the  
22 railroad, then the application process could  
23 include the data elements that you desire.

24                   It shouldn't -- you know, you just  
25 send out the application to them and then work



1 through the issues, and they have to fill that  
2 data in prior to (inaudible). But there is going  
3 to be a burden on the railroad going back and  
4 forth to validate all those fields are filled in.  
5 But there is a benefit.

6 Now, I'm going to go on and AAR will  
7 probably beat me up, but there is a benefit to  
8 the railroads to get these crossings under some  
9 type of formal arrangement, right, which they  
10 don't have today. So if there was a mandate that  
11 said, you know, hypothetically it said you have  
12 to have some type of arrangement. Either you  
13 have a deed restriction or you have some other  
14 kind of requirement that's there.

15 We're going to say you have to have an  
16 arrangement with the railroad, because it's a  
17 safety issue. We have to know who's using the  
18 crossing and how it's being used, and here's this  
19 form with these data elements that we need to be  
20 filled out, whether it be electronic submissions  
21 or whatever it is. It could be a benefit to the  
22 railroad industry, help them both out.

23 MS. CARROLL: Mr. Browder?

24 MR. BROWDER: Bill Browder, from the AAR.

25 I haven't polled the AAR members, but

1 Shane's, I think, on target for our -- what I've  
2 heard from our members. I have not heard any  
3 objection to this.

4 My question, though, Anya, is, What  
5 prompts this question to begin with? Is there  
6 some sort of data-driven basis that you or FRA is  
7 aware of that there is some egregious shortcoming  
8 in the inventory in terms of initial reporting or  
9 maintenance of private-crossing ID numbers?

10 MS. CARROLL: Not necessarily the ID  
11 numbers, but as Miriam's -- one of Miriam's  
12 graphs showed that 27.9 percent of the incidents  
13 were at private crossings that have no  
14 information. They were blank fields. They had a  
15 crossing ID, but there was no information to  
16 determine where it fit into type of land use or  
17 warning-device category and the like.

18 MR. BROWDER: Then I submit that your  
19 problem would not be solved by the assignment of  
20 an ID number to private crossings, because if I  
21 understand you correctly, that's currently being  
22 done by the railroads or somebody in terms of its  
23 status. So what's the point of the question?

24 MR. COTHEN: No. I think, Bill, you know,  
25 we have -- based on the number of records that

1 have been updated since initially submitted, we  
2 have a pretty strong feeling that there are  
3 crossings out there that don't exist. It  
4 wouldn't surprise us if we found many public  
5 crossings that were supposed to be out there, and  
6 you go to take a picture, and it's not there.  
7 The rail's been pulled up.

8                   And conversely, there's some surprise  
9 crossings out there. You know, Mr. Bertel's  
10 going to go back home this evening, and he may  
11 see one he didn't know was there when he left  
12 this morning. And you can hardly blame him that  
13 that's not in the inventory.

14                   From time to time we do need to  
15 refresh the inventory and know that we have a  
16 current record on it, because otherwise what you  
17 end up doing is you end up dividing by larger and  
18 smaller numbers for any particular routine,  
19 statistical routine you do than you should have,  
20 and getting results that are very likely  
21 misleading.

22                   So we think we -- you know, we're  
23 pretty sure we might need some additional data  
24 elements. And if we need some additional data  
25 elements, it's not going to be any easier to keep

1 the voluntary system.

2                   Maybe we do need more partners doing  
3 this so that we have those who control movements  
4 over the private crossing kicking in some  
5 additional information. Maybe we need to have an  
6 ability for a railroad surveyor in an obvious  
7 case where there's a problem to go out and take a  
8 look at the geometry of the crossing the same way  
9 Rick Campbell was talking about earlier, to  
10 determine whether or not that combine can  
11 possibly stop and get over that crossing, because  
12 it may be the railroad, and it may be that the  
13 railroad's train encounters that combine on that  
14 crossing to the detriment of both.

15                   So we're looking for currency of data,  
16 but also real live partnerships out there that  
17 permit us to all manage the safety case in  
18 realtime as much as possible.

19                   MR. BROWDER: Grady, in light of your  
20 comments and in light of Anya bringing up about  
21 track geometry for us, AAR would like to throw  
22 back to the FRA a suggestion that we had put  
23 forward several times before: That since  
24 operating-practices inspections normally make  
25 inspections in company with railroad-track

1 personnel online and over grade crossings, that  
2 they might monitor and provide input information  
3 for the inventory. Just a suggestion.

4 MR. COTHEN: Is this suggestion part of  
5 track inspectors or ordinary practices?

6 MR. BROWDER: Well, either one or both.  
7 On occasions where they are in a situation where  
8 they are involved with highway-rail grade  
9 crossings, why not ask them to be the additional  
10 eyes and ears to the railroad people in looking  
11 at and seeing if we have done our job correctly,  
12 and if not, bring it -- either bring it to our  
13 attention rather than mandating a regulation or  
14 ensuring that it gets included in the inventory.  
15 It's a rhetorical question. You don't have to  
16 answer it.

17 MR. COTHEN: Well, actually it's not a  
18 rhetorical question. Actually it's a -- and we  
19 keep finding or trying to find ways of those who  
20 are invested in the FRA part of the grade-  
21 crossing program in leveraging our resources.

22 And if we can get a GIS in place that  
23 gives us a good trail of what we have out there  
24 so that we can put it in the hands of FRA  
25 personnel who are on the property, readily usable

1 material for checking the data on file --

2 MR. TESSLER: Excuse me, Grady. Somebody  
3 -- there is an undercurrent of noise. The court  
4 reporter's having difficulty hearing. If we  
5 could have one person speak at a time. Thank  
6 you.

7 MR. COTHEN: Thank you, Mark.

8 There's a possibility of doing  
9 something on that order. I would point out,  
10 however, that we are out there on an average of  
11 about once a year, and your track inspectors are  
12 there twice a week on the main lines.

13 MS. CARROLL: Tim DePaepe?

14 MR. DePAEPE: Tim DePaepe, Brotherhood of  
15 Railroad Signalmen.

16 That was my point earlier about  
17 prioritization. It was not a slap at the  
18 railroads or the short lines or anyone else that  
19 they're not doing this, but it's like any data  
20 collection that we've tried to get collectively  
21 through labor and management or through the FRA:  
22 Possessors of the data are the railroads  
23 themselves.

24 And I was going to make up the point  
25 earlier that we had this gentleman, a COO, who

1 said his numbers changed on a daily basis, and  
2 he's there -- I mean, his people are there. And  
3 every time they do their inspection, they're not  
4 surprised to find a new one.

5           Well, a lot of that may be just  
6 indigenous to the short lines, where they maybe  
7 don't have the personnel that the Class I's have.  
8 But the railroads possess the ability to collect  
9 this data. I'm all for trying any other ways to  
10 get that data, but if there's not a commitment by  
11 the railroads --

12           And as Bill has said, there has been a  
13 commitment. They've tried to do a good job. As  
14 the other gentleman back here just said, he was  
15 surprised at the differences between his data  
16 that he just got and the data the state got and  
17 the data the FRA had. So we've got to start with  
18 the railroads.

19           And again, I don't know if it warrants  
20 regulation, but if you don't put -- you know, I  
21 worked seventeen years in the field as a signal  
22 maintainer. I was asked once in seventeen years  
23 to go get the numbers that the railroad had put  
24 on every crossing designating what it was, what  
25 the DOT number was. In seventeen years I was

1 asked to do it once, just on my territory.

2                   It wasn't a system-wide, it wasn't a  
3 railroad-wide procedure. And again, that's just  
4 my bias, my situation. My suggestion would be,  
5 and I don't care what the time frame is, I would  
6 throw out: Make it something reasonable. Ten  
7 years, twenty years, I don't care. It's better  
8 than no year that we have now.

9                   We've got to put some restriction,  
10 because then people will make it a priority to  
11 get it done. Because on the railroads, there's  
12 always something else more to do. As someone who  
13 worked in a craft that did a lot of things  
14 required by regulations, the priority is, if it's  
15 a monthly task, if it's a quarterly task, a  
16 semiannual or annual or five years, a ten-year  
17 task, you did the tasks that were due first, and  
18 everything else waited.

19                   So if you had -- and the ones that had  
20 no timeline, if you can get all this done, you  
21 can go that get list for us, Tim, and that list  
22 probably never got done.

23                   And that's the only way you're going  
24 to get at that data. And saying and even  
25 suggesting that the government do it, you've got



1 what, 800 fellow people in the FRA? You've got a  
2 small handful of actual inspectors that go and do  
3 anything when it comes to the nuts and bolts of  
4 the track in maintenance and engineering.

5 Unless you know about a whole boatload  
6 of money that's coming in to FRA that I'm not  
7 aware of, I don't see you getting this done that  
8 way.

9 MS. CARROLL: Thank you, Tim. Mr. Suarez?

10 MR. SUAREZ: I'm Mark Suarez, from  
11 Louisiana DOT.

12 You know, thinking out of the box is  
13 something I like to do, but I have to ask a  
14 question: How much of this cargo we're hauling  
15 that's dangerous, has all these issues for  
16 Homeland Security Richard talked about earlier in  
17 the day, the stuff that he's hauling up from the  
18 coast, and all these private crossings showing up  
19 that he has no way to combat?

20 To me, it would seem like a serious  
21 safety risk for the government and the FRA to  
22 deal with, to address, because one derailment  
23 wipes out a town or whatever because he doesn't  
24 even know the crossing existed, and they hit it,  
25 and it derails a train.

1                   Is there a possibility -- and maybe  
2   it's a question you'll have later on --  
3   permitting private crossings through the FRA, and  
4   the railroad has to be involved also to prevent  
5   these fly-by-night crossings that come up with  
6   serious legal ramifications if you do that,  
7   because, I mean, you're endangering everybody in  
8   that area with potential derailment of a poison  
9   car. Okay?

10                   And I just can't comprehend that  
11   that's even a possibility that people could do  
12   that for the simple fact that, you know, those  
13   kind of things are going to be accidental  
14   terrorist acts, when you get out there and you  
15   build a crossing, that they have no jurisdiction,  
16   authorization, or ability to do.

17                   And you know, downtown New Orleans,  
18   downtown wherever, hometown, you know, a little  
19   bitty old podunk place, you wipe out everybody.  
20   And it's just -- I'm just thinking out of the  
21   box: Why wouldn't we permit those crossings?

22                   Why wouldn't we have FRA permit for  
23   private crossings to mandate that everything's  
24   done exactly right and in accordance to any  
25   standards that we might come up with? Is that

1 something that has been brought up, or a  
2 possibility?

3 MR. COTHEN: Okay. We have not used the  
4 word "permitting," to my knowledge, in any of the  
5 questions that we've raised for this proceeding,  
6 but implicit in the discussion that we have had  
7 about responsibilities and about whether or not  
8 there's a warrant for any crossing to be out  
9 there to start with is the notion of putting a  
10 -- should there be some kind of threshold showing  
11 in this case, not of public need but of  
12 sufficient private need and that is not in  
13 concert with the public interest, so that the  
14 crossing could be maintained? And that all goes  
15 to under what conditions? And that goes to what  
16 kind of traffic; right? And what are the  
17 characteristics of the rail traffic involved?

18 And so it's a complex set of issues,  
19 and I don't think we want to find ourselves as a  
20 federal government with 95,000, or however many  
21 it turns out to actually be, permits showing up  
22 in our mail system, particularly since all our  
23 mail gets irradiated in Ohio, and it's virtually  
24 unreadable when it's received.

25 But I do think that one of the

1 questions, Mark, that we're raising in this  
2 proceeding is, Do we need a process with  
3 criteria? If we do, what kind of process should  
4 it be? How might it be executed? If there are  
5 conflicts that arise associated with it, how  
6 might those be resolved?

7                   It might be you could be involved in  
8 administration of the process you know, first of  
9 all, who has a stake in that process? If you  
10 have a semipublic crossing, do the local -- state  
11 and local authorities have an interest in the  
12 process? All of those things we've got to  
13 wrestle until we get them in hand. Yes, sir?

14                   MR. SUAREZ: And I guess, again, I guess  
15 the point I'm trying to make is that Mr. Richard  
16 has already indicated that the local authorities  
17 have no vested interest in the railroad. They  
18 have a vested interest in their local political  
19 body, political people, the votes they're going  
20 to get.

21                   So it has to come from a federal-  
22 mandated, federal-jurisdictional-type thing to  
23 solve the problems that we're going to face.  
24 There's no state issues that that we can get  
25 ourselves involved in that would allow us to

1 solve this problem.

2 I mean, we had that state law, the  
3 closure law, and it came about because of some  
4 serious accidents that occurred back to back to  
5 back. And, you know, that still put us in a  
6 position where we can be overturned by local  
7 governmental jurisdictional-legal-type mechanisms  
8 or courts of law.

9 And federal cases are much harder to  
10 defeat than federal jurisprudence. The federal  
11 law, federal courts, in my opinion, would seem to  
12 have more weight. For instance, let's just give  
13 you an example. We'll do a rough -- we'll -- we  
14 have a lot of Operation Lifesaver stuff, very --  
15 Betsey's operation. I'll call it one of the  
16 superior Operation Lifesaver groups in the  
17 country.

18 They do a lot of cops on the train,  
19 and they ride out and give a bunch of tickets,  
20 you know, go into local courts, and the local  
21 judge will throw every ticket out. They'll write  
22 a hundred tickets and they'll all be thrown out,  
23 because "Y'all just targeted all these people,  
24 and that's just not fair to penalize my local  
25 people."

1                   Now, and that's the kind of stuff  
2 that's going to go on and continue to go on.  
3 That's what Richard's up against. And I would  
4 encourage you to focus on more the federal  
5 mandate, federal law, federal jurisdictional-type  
6 things to prevent those types of things from  
7 happening.

8                   MS. CARROLL: Thank you, Mark. Moving on  
9 to -- yes?

10                  MR. SAUNDERS: I'm sitting here --

11                  MS. CARROLL: Will you state your name,  
12 please?

13                  MR. SAUNDERS: I'm Ben Saunders, for the  
14 American Trial Lawyers.

15                         I'm sitting here more as an observer  
16 today. Do you realize, folks, that there is no  
17 problem legally with his company, with the AAR,  
18 with CSX, with UP if the problem is solved?  
19 There's a solution to the problem.

20                         The solution, in my humble opinion,  
21 listening to all of this talk today, is not data  
22 collection. It's not, sir, Mr. Suarez using his  
23 shield to block yourself legally, which you're  
24 obsessed with.

25                         The problem is to solve the problem

1 from an engineering standpoint. Okay. I heard  
2 somebody earlier today say one of the solutions  
3 is closing private crossings. That's a solution.  
4 Why? Because the train can't interact with the  
5 car.

6 I heard another person say  
7 consolidating private crossings makes less  
8 crossings, therefore less accidents, less  
9 communities vulnerable. You just described a  
10 situation, three tragic accidents in Louisiana in  
11 a row, which led to some legislation.  
12 Legislation is good if it eliminates litigation,  
13 but it doesn't solve the problem, does it?

14 What solves the problem? Not lawyers,  
15 not bureaucrats, not presidents of companies.  
16 Engineering. Not studying the data and writing  
17 books. Engineering, mechanical engineering.

18 Have gates you don't drive around.  
19 That's an engineering solution. Have trestled  
20 crossings in the rural country, especially with  
21 an industry that's producing chemicals. Then you  
22 can't have a town wiped out by a train hitting a  
23 car.

24 My engineers don't want to get killed.  
25 They don't want to kill anybody. They don't to

1 be involved in that. But they want to serve out  
2 thirty-five years with the railroad because  
3 they're vulnerable, too. So the answer is an  
4 engineering solution to the problem, not talking  
5 about it.

6           Once again, I've never met Mr. Bertel  
7 in my life. He's right. He said, "I support you  
8 collecting all this data, but I want to solve the  
9 problem. I want to drive down the river and I  
10 don't want to see all this stuff." He wants  
11 the problem rectified, and it can only be  
12 rectified from an engineering standpoint.

13           And if I misspoke, I apologize, but I  
14 think that the NTSB years ago had said, "You need  
15 positive train separation." It's the last time  
16 I'll say it today, but I've sat here diligently  
17 and listened to everybody talk about questions 1  
18 through 7 about acquiring more data to make  
19 another study, to get more information to the  
20 federal government. We'll go to the FRA  
21 regulator, we'll maybe go to Congress, we'll  
22 maybe go to the president, and then we'll hear  
23 the results of that on the NBC Nightly News.

24           Is the problem solved? No. When CSX  
25 runs from Jacksonville to New Orleans and then



1 through the rural part of Mississippi, is their  
2 problem solved? Is the pedestrian's problem  
3 solved? No. The problem's solution is  
4 engineering, in my humble opinion.

5 And I apologize if I've misspoken, if  
6 I've stepped out of my field.

7 MR. SUAREZ: Mark Suarez again, to address  
8 part of your comments.

9 It's not engineering per se, because  
10 we have 8 million a year in the 1331 crossings  
11 that we have passive crossings at right now. It  
12 would take between twenty-five and fifty years to  
13 gate all of those crossings, with the price  
14 ranging from one hundred and fifty to three  
15 hundred thousand dollars. No inflation, not  
16 touching anything we've already done, you're  
17 looking at twenty-five to fifty years. Every  
18 grade separation costs anywhere from 10 to 20  
19 million.

20 The realities are is that there's a  
21 lot of, lot of stuff that can't be done by  
22 engineering. The law that we're talking about  
23 was a closure law. We had nothing but  
24 negotiation power to get closures on crossings  
25 that were redundant. After those accidents, we

1 had a closure law, and it gave us a lot more  
2 leverage to get closures on redundant crossings.  
3 And that's what we're focussing on.

4                   So we're trying to close some of these  
5 1331 crossings. That has nothing to do with the  
6 2800 or whatever the number is of private  
7 crossings that we don't look at or deal with in  
8 any way, shape, or form. There's another, you  
9 know, double the money, double the years, another  
10 fifty to a hundred years to deal with those  
11 crossings with the money that we have now.

12                   So it's not just an engineering  
13 concept. It's a financial concept. Closures are  
14 the Fed, Federal Highway Administration, the FRA  
15 and the DOT. The federal DOT has said, "Closures  
16 is a major requirement, a major push, a major  
17 function for the simple fact that we can't  
18 possibly afford to deal with what we've already  
19 got." And that's a part of where they're going.

20                   And if they're wide open, public  
21 crossings -- private crossings anywhere they  
22 want, there's no way to stop that. And he's  
23 going to court, he's lost the court case, he  
24 says -- then it's more than just an engineering  
25 issue; okay? And if it was just an engineering

1 issue, we'd solve the problem, you know, because  
2 the engineering's easy to do.

3                   You know, it's easy to put up a gate  
4 and block a crossing if you've got enough money  
5 and stuff like that. Dealing with the public  
6 crossings is a finite problem. Dealing with the  
7 private crossings is not a finite problem.

8                   MS. CARROLL: We have two more questions  
9 to go, and as Grady said, we have to be out of  
10 here before one minute before 5:00.

11                   MR. SAUNDERS: Very quickly, if the money  
12 is there, say the money's unlimited, would  
13 engineering solve the problem?

14                   MR. SUAREZ: (Inaudible) the money --

15                   MR. SAUNDERS: Can engineering solve the  
16 problem of vehicles colliding with trains and  
17 trains colliding with vehicles?

18                   MR. SUAREZ: You have to look at North  
19 Carolina's closed corridor. Is it -- did it have  
20 any accidents on that corridor?

21                   MR. COTHEN: Yeah, they still do have  
22 some, but they've been significantly reduced.  
23 And there's a pretty good study on our Web site  
24 about the sealed-corridor program.

25                   And I certainly wouldn't challenge the

1 importance of engineering and I don't think  
2 anybody here would want to denigrate it. It was  
3 our first topic of discussion when we got into  
4 political issues in this series of meetings, and  
5 it was in North Carolina.

6           And I think if I could summarize what  
7 we heard in this part on the engineering front is  
8 that certainly that many of the solutions that  
9 are suitable for public crossings are equally  
10 suitable for private crossings, grade separations  
11 or grade -- and there have been grade separations  
12 of private crossings that involved heavy  
13 industrial traffic, and perhaps some other  
14 illustrations as well.

15           But that -- they start at about \$3  
16 million there, assuming you can maintain the  
17 footings. And so we're looking for as many good,  
18 cost-effective solutions as we've got. One of  
19 the strategies is to close some crossings so that  
20 the limited resources that are available can be  
21 expended at those that remain, and also so that  
22 we close higher-risk crossing that cannot be made  
23 safe, which is an engineering solution in itself.

24           So I don't think there's a lot of  
25 conflict in what people are saying here. It's

1 just moving toward practical implementation.

2 MR. BROWDER: One more comment before you  
3 close the discussion: Six years ago AAR  
4 solicited with TTI input from low-cost active  
5 warning devices at crossings, and we did not have  
6 any success.

7 My outside-the-box suggestion is that  
8 maybe it's time for these low-exposure crossings,  
9 public and private, to look at something less  
10 than a fail-safe system to provide  
11 active-warning-device indications at these  
12 crossings.

13 My legislative people have said that  
14 if you were able to get the cost down below  
15 \$50,000 a crossing -- and we heard \$150,000  
16 thrown out as an average here today -- that they  
17 would possibly be listened to by Congress in  
18 providing that at all at-grade crossings.

19 So maybe y'all want to consider that  
20 perspective in terms of engineering action, that  
21 there would be something less restrictive than  
22 fail-safe protection, which in my perception  
23 currently discourages a number of innovations  
24 from being used at these crossings.

25 MR. COTHEN: And, you know, that's

1 something we're going to have to continue to work  
2 with, Bill. We did authorize a demonstration of  
3 a technology which probably cannot be  
4 administered fail-safe. It was closed-loop in  
5 its application, so as not to take a bad  
6 situation and make it worse, involving a GPS  
7 train location and made a radio-link activation  
8 of highway-rail crossings. This was a project  
9 sponsored by the Minnesota Department of  
10 Transportation.

11                   That particular technology appears  
12 making commercialized major signal houses headed  
13 down that road, but it does require that all the  
14 locomotives in the territory be equipped for it  
15 to be an effective system. And there are some  
16 other limitations that would have to be analyzed,  
17 depending on the application.

18                   But, you know, the Federal Railroad  
19 Administration certainly is open to taking  
20 prudent risks to drive the overall risk level  
21 down.

22                   MS. CARROLL: Just one last comment before  
23 we move to No. 8.

24                   MR. DePAEPE: Tim DePaepe, Brotherhood of  
25 Railroad Signalmen.

1                   I can't let Bill's suggestion go  
2                   unheeded and unresponded to. I'm all for  
3                   thinking outside the box, but if you're going to  
4                   look into that type of equipment that Bill's  
5                   talking about, the FRA has to make sure that they  
6                   also explore the law of unintended consequences;  
7                   that is, where you have an engineer who may rely  
8                   on this highly reliable system too much and not  
9                   exercise the same caution. Now you've caused an  
10                  accident that may not have happened if you had no  
11                  protection there at all. I mean, that's the  
12                  problem that's been with these systems since  
13                  they've been talked about in the last five, ten  
14                  years.

15                  Also I throw out, even though I'm a  
16                  labor person, a former railroad worker, I care  
17                  that my railroad makes money. And if you're  
18                  going to put a system out there that's pretty  
19                  good but not fail-safe, when there is a wreck,  
20                  the liability is going to be through the roof,  
21                  and it's going to be on the railroad. And I'm  
22                  not aware currently of any federal law or rule  
23                  that gets them out of that liability now.

24                  MS. CARROLL: Okay. Moving on to question  
25                  No. 8: What if the railroads, with support from

1 the states, are required to locate all the  
2 crossings and collect the needed data? This is  
3 just looking at one piece of the puzzle, one data  
4 field, the lat/long. We talked a little bit  
5 about this with the track geometry car, possibly.

6 Are there any other automated means  
7 that would -- the track geometry car collecting  
8 the lat/long and maybe the grade-crossing number  
9 fed into the kind of system Louisiana DOT has,  
10 where all they need is a spreadsheet that could  
11 then be mapped on their current system. That's  
12 it?

13 We're going to No. 9: What if private  
14 crossings were required to have latitude and  
15 longitude information and be located through the  
16 use of global positioning satellite systems,  
17 whether it be the state that does that or a  
18 railroad that does that, the private landowner:  
19 Is that a viable means for collecting data?

20 MR. COTHEN: And I guess one version of  
21 this is, Is there a good routine we could use to  
22 check what we got? The railroads obviously have  
23 crossings on main lines geolocated already and  
24 that have already sneaked up on some populations  
25 empty, as I understand it, lat/long data fields



1 in the inventory in order to support GIS  
2 applications. You know, is it possible to take  
3 -- to proceed from the railroad's information to  
4 cross-check that, since in fact most of the Class  
5 I railroads have data on file?

6 MS. CARROLL: I think we've run out of  
7 gas, Grady. I think we've thought out of the  
8 box.

9 MR. COTHEN: And administratively, the  
10 answer to the question is clear: That we could  
11 do it. We have the will and resources to do it,  
12 but like so many other things, you've got to do  
13 it right. Okay.

14 We've worked y'all pretty hard today.  
15 We appreciate as many as had sticking with it and  
16 the number of others that just had to leave  
17 because of the hour of the day.

18 Other business: Mr. Browder?

19 MR. BROWDER: I'd like to put one more  
20 statement on the record and indicate that in  
21 considering endeavors that have to do with safety  
22 and highway-rail grade crossings, the states as  
23 well as the FRA have been very supportive of a  
24 number of different efforts, not just Operation  
25 Lifesaver efforts.

1                   Another major effort that AAR believes  
2 in and the FRA has provided support has been the  
3 national and regional meetings that have been  
4 conducted, usually sponsored by a state or group  
5 of states, to promote safety between highway  
6 authorities and the railroads.

7                   A number of these meetings, in  
8 particular state meetings in Illinois, Wisconsin,  
9 Kansas, which now combines areas with Missouri;  
10 regional meetings, in particular the string of  
11 meetings in the Southeast Region, the Midwest  
12 Region, the Eastern Region and to a lesser degree  
13 in the Western Region, have received a tremendous  
14 amount of support from the individual states and  
15 the federal government.

16                   In particular I'd like to say thank  
17 you to the Louisiana DOT for the support. And I  
18 interface quite a lot with Bill Shrewsbury, who  
19 is on Rick Campbell's Railroad Technical  
20 Committee. I'd like to point out that AAR has  
21 supported the initiative that the FHWA now has  
22 become involved and supportive of to add a yield  
23 sign to all public passive crossings.

24                   And that initiative and the language  
25 from the national committee came from a TAG, a

1 Technical Advisory Group, out of that Rick  
2 Campbell's committee. And the chair of that  
3 committee was Bill Shrewsberry over here, of  
4 Louisiana DOT.

5           And he did yeoman work, along with  
6 Daniel McDonald of Oregon DOT, John Blair of  
7 Illinois DOT, in getting that to the surface.  
8 And it's a support that AAR believes will pay in  
9 a reduction in the number of fatalities and  
10 injuries at public passive crossings.

11           One problem that exists that needs  
12 more support than just the FRA is, it is becoming  
13 more and more difficult for these state employees  
14 and other highway authority officials to come to  
15 these meetings that are held on a national or  
16 regional basis.

17           And we need to encourage FRA and US  
18 DOT to support measures that will provide funding  
19 where appropriate to the states to allow highway  
20 authorities and state employees to come to these  
21 very important meetings where they have an  
22 opportunity such as we have had today to  
23 interface and exchange ideas and efforts that are  
24 going on as such.

25           Anya also chairs the Highway-Rail

1 Grade Crossing Committee on the Transportation  
2 Research Board, which I've always told people I  
3 think is one of the most complete committees of  
4 stakeholders in the grade-crossing arena and  
5 needs the support of all of the people that are  
6 involved in crossings and the support to generate  
7 the funds for all of the stakeholders and the  
8 people who do this kind of work to participate in  
9 these meetings. Thank you.

10 MR. COTHEN: Thanks very much, Bill. I  
11 want to just close by saying that we recognize  
12 that in the public-crossing arena that  
13 enforcement plays a big role. Clearly that  
14 wasn't going to be a very productive topic of  
15 discussion when it comes to private highway-rail  
16 grade crossings, given the number of those  
17 crossings and the difficulty of access along  
18 150,000 miles and more of railroad right-of-way,  
19 and so we didn't go there, but it's an important  
20 dimension to consider, given the fact that in  
21 many places in the country, there is, with  
22 encouragement from a lot of members, an active  
23 effort for enforcement and effective judicial  
24 outreach in support of that.

25 Here we have further difficulties,

1 because we're talking about people who feel  
2 themselves entitled to utilize the crossings in  
3 whatever way they see fit, a very -- virtually  
4 impossible job in terms of, quote, "policing,"  
5 end quote, that on the part of railroads.

6 I want to thank the Louisiana  
7 Department of Transportation and Development,  
8 Mark and Bill and staff. We really appreciate  
9 y'all being here, bringing this sense of reality  
10 and practicality and urgency to the discussion,  
11 and congratulate you for the directions that  
12 you're taking with your program and the hard work  
13 that you do in engineering and the outreach and  
14 cooperation with the railroads and communities  
15 every day, and for being good partners with FRA.  
16 We thank you very much for partnering with us in  
17 this forum. I learned a lot.

18 We don't have any additional business,  
19 to my knowledge. Anya, do you have an  
20 announcement?

21 MS. CARROLL: Yeah. Bill had just  
22 reminded me as chair of the TRB Committee on AAR  
23 grade crossings, we are supporting a panel  
24 session on January 23rd in Washington, D.C., in  
25 the afternoon at the Marriott Hotel that will

1 discuss safety at private crossings.

2                   And secondly, the fifth and final  
3 meeting is tentatively scheduled for Syracuse,  
4 New York, in the Windham Hotel on February 15th,  
5 so you can be looking for an announcement on  
6 that. Thank you.

7                   MR. COTHEN: Syracuse in February. You'll  
8 love it. Thank you. We'll adjourn.

9                   (Whereupon, the proceedings were concluded,  
10 at approximately 5:00 p.m.)

11                                   ...oOo...

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REPORTER'S CERTIFICATE

I, Kathryn L. Paintin, Certified Court Reporter in and for the State of Louisiana, do hereby certify that the foregoing proceedings were reported by me by the stenotype reporting method and transcribed by me or under my personal direction and supervision, and that the foregoing is a true and correct transcript, to the best of my ability and understanding;

That I am not of counsel nor in any way related to counsel or any of the parties herein, and that I am in no wise interested in the outcome of this matter.

---

KATHRYN L. PAINTIN  
Certified Court Reporter  
No. 81029 (Louisiana)

Anyone read this private crossing dribble? The IN CHARGE RR handmaidens saying don't use stop signs because it's more dangerous sometimes. But the same clowns have school buses and haz-mat vehicles stopping everywhere at public/private crossings. The railroads rules have rail employees stopping everywhere at public/private crossings. Some states have stop signs all over. Where are the DON'T STOP HERE RAILROAD CROSSING SIGNS?

<http://dmses.dot.gov/docimages/p86/406577.pdf>

RICHARD CAMPBELL President Railroad Controls Limited

But when we introduce a stop at a crossing, the clearing-sight distance grows exponentially. So if you take the clearing-sight distance, then you can take the maximum authorized speed of the trains on that given section of the track and determine a sight distance that you need to be able to adequately clear, because some of the crossings we go in and put these treatments in, and we create a scenario where, based on physical characteristics, vegetation, either on or off the railroad right-of-way, generally off, it generally is crops or vegetation off the railroad right-of-way where you can't actually come to a stop to comply with the rules, start up and clear prior to train arrival at maximum authorized speed. So there are some inherent hazards that need to be understood, and collecting some additional data would help to be able to gather that information.

MR. RIES: Bob, while we're finishing up, just to sort of let you know, we've sent out over 700 invitations twice or three times for this meeting.

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<http://dmses.dot.gov/docimages/p89/446136.txt> Louisiana 2

I am writing to contribute to the FRA's discussion on private railroad crossings. It seems to me that nationwide standards for warning devices at rail crossings would be beneficial. We live in a highly mobile society, and creating uniform standards would help system users, whether they are in automobiles, on bicycles, or on foot, to recognize upcoming crossings no matter where the crossing is located. If such standards are, in fact, adopted, I would presume that some agency would be responsible for enforcement.

In addition, I feel that some notification that the private line is, in fact, active might aid drivers, cyclists, and pedestrians. Knowing that the line is active might encourage those who approach the crossing to do so with additional caution.



# Brotherhood of Locomotive Engineers and Trainmen

*A Division of the Rail Conference — International Brotherhood of Teamsters*

## **NATIONAL LEGISLATIVE OFFICE**

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### **JOHN P. TOLMAN**

*Vice President and  
National Legislative Representative*

February 15, 2007

Docket Clerk  
DOT Central Docket Management Facility  
Room PL-401  
400 7th Street, SW (Plaza Level)  
Washington, DC 20590-0001

Re: Docket No. FRA-2005-23281

Dear Docket Clerk:

On July 27, 2006, the Federal Railroad Administration (“FRA”) published a Notice of safety inquiry, regarding the Safety of Private Highway-Rail Grade Crossings, which was assigned DOT DMS Docket No. FRA-2005-23281. FRA therein solicited comments from interested parties. 71 FR 42713.

These comments are submitted by the Brotherhood of Locomotive Engineers and Trainmen, a Division of the Rail Conference of the International Brotherhood of Teamsters (“BLET”), which is the duly designated and recognized collective bargaining representative for the craft or class of Locomotive Engineer employed on all Class I railroads. BLET also represents operating and other employees on numerous Class II and Class III railroads. Consequently, the issue of safety at private highway-rail grade crossings has a significant impact upon our members.

The BLET believes that private railroad grade crossings in the United States lack a uniform approach to safety, which endangers the lives of our members and the general public. There is a complete absence of regulation involving private grade crossings. This absence endangers both the public and railroad workers.

While accidents and injuries at public highway-rail grade crossings have declined by between one-third and one-half in the past decade, accidents at private crossings have declined by only 10 percent, and the number of injuries in private crossing accidents has actually increased by one percent. This increase is an unfortunate side-effect of both the government and the railroads failing to pay appropriate attention to this issue. We are fortunate, however, that no major accidents or incidents have occurred at such crossings. Nonetheless, the risk remains unacceptable. The

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**Page 2**

risks of collision and of derailment mean that train crews and the public may be exposed to injury or death caused by derailling equipment or hazardous materials releases.

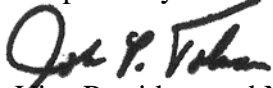
The boundaries between public and private crossings are often blurred. There are over 94,000 private highway-rail grade crossings in the United States; many of which are used by more than one individual. A private crossing should be defined as one used by a sole land owner or lessee. Once any other individuals routinely use the crossing, it should no longer be considered a private crossing but as a public crossing. We believe it is imperative that any private crossing that serves an industry should be held to the same standards for the highway-rail grade crossing signal system requirements. Due to the types and sizes of trucks, and the materials that they carry, the severity of an accident at these crossings would be greater than an accident between an automobile and a train.

The BLET feels that, at a minimum, all crossings should be required to have active warning devices and must be in compliance with the Manual for Uniform Traffic Control Devices. Active warning devices can significantly improve the level of safety at these grade crossings.

However, we would prefer that FRA prohibit the creation of new private crossings and work toward eliminating as many existing private crossings as possible. If the FRA determines that it wants to allow the creation of new private crossings, then the new private crossings should have active warning devices installed prior to use. FRA should request enactment of legislation to address private crossings.

It is unfortunate that for many years our nation's railroads have chosen to sweep this issue under the rug — ignoring these private crossings until the level of safety had degraded so far that they have become a danger to railroad workers and the general public. We appreciate the fact that FRA has undertaken this effort, and are grateful for the opportunity to participate.

Respectfully submitted,



Vice President and National Legislative Representative

cc: Thomas A. Pontolillo, Director of Regulatory Affairs



# Iowa Department of Transportation

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February 20, 2007

Docket Clerk  
U.S. DOT Dockets  
Room PL-401  
400 Seventh Street, SW  
Washington, DC 20590

RE: Safety of Private Highway-Rail Grade Crossings; Notice of Safety Inquiry  
Docket No. 2005-23281

Dear Mr. Ries:

The Iowa Department of Transportation submits comments in response to the Federal Railroad Administration's (FRA) Notice of Safety Inquiry regarding private highway-rail grade crossings (July 27, 2006 Federal Register).

The Iowa Department of Transportation does not gather, maintain or perform any safety analysis relative to private crossings. State regulation of private crossings is limited to private farm crossings established solely for farming or agricultural purposes. All other private crossings established in Iowa would be governed by terms of contracts or agreements negotiated by the railroads and the owners of private property.

The FRA solicits discussion and comments on all areas of safety relative to private crossings and on ten topics listed in the notice. Comments are as follows:

- *At-grade highway-rail crossings presents inherent risks to users, including the railroad and its employees, and to other persons in the vicinity should a train derail into an occupied area or release hazardous materials. When passenger trains are involved, the risks are heightened. From the standpoint of public policy, how do we determine whether creation or continuation of a private crossing is justified?*

Currently in Iowa the only statutory supported creation of a private crossing is to establish access to land that has no other access available and the "private farm crossing" is used solely for farming or agricultural purposes:

Iowa Code 327G.11 PRIVATE FARM CROSSINGS.

When a person owns farmland on both sides of a railway, or when a

railway runs parallel with a public highway thereby separating a farm from such highway, the corporation owning or operating the railway, on request of the owner of the farmland, shall construct and maintain a safe and adequate farm crossing or roadway across the railway and right-of-way at such reasonable place as the owner of the farmland may designate. A private farm crossing established or installed pursuant to this section shall be used solely for farming or agricultural purposes.

Any continuation or creation of a private crossing for any other purpose requires negotiations between the railroad and private property owners. Thus the parties entering into negotiations for a private crossing would be the most knowledgeable about the use of the crossing and its associated risks.

- *Is the current assignment of responsibility for safety at private crossings effective? To what extent do risk-management practices associated with insurance arrangements result in "regulation" of safety at private crossings?*

Currently, the railroads and private property owners share the responsibility for safety at private crossings. We do not gather or have knowledge of the insurance arrangements relative to risk-management associated with safety at private crossings.

- *How should improvement and/or maintenance costs associated with private crossings be allocated?*

We do not support using public funds for improvements or maintenance of private crossings. Private crossings should be created by formal agreement, and the responsibility of improvement and/or maintenance costs should be determined by the agreement between the railroad and the property owners.

- *Is there a need for alternative dispute resolution mechanisms to handle disputes that may arise between private crossing owners and the railroads?*

Iowa Code section 327G.12 provides for an administrative dispute resolution process:

Iowa Code 327G.12 OVERHEAD, UNDERGROUND, OR MORE THAN ONE CROSSING.

The owner of land may serve upon the railroad corporation a request in writing for more than one private crossing, or for an overhead or underground crossing, accompanied by a plat of the owner's land designating the location and character of crossing desired. If the railroad corporation

refuses or neglects to comply within thirty days of a written request, the owner of the land may make written application to the department to determine the owner's rights. The department of inspections and appeals, after notice to the railroad corporation, shall hear the application and all objections to the application, and make an order which is reasonable and just, and if it requires the railroad company to construct any crossing or roadway, fix the time for compliance with the order and apportion the costs as appropriate. The order of the department of inspections and appeals is subject to review by the state department of transportation. The decision of the state department of transportation is the final agency action.

- *Should the State or Federal government assume greater responsibility for safety at private crossings?*

Private crossings should be created by formal agreement, and the responsibility of improvement and/or maintenance costs should be determined by the agreement between the railroad and the property owners. Since railroads operate as interstate commerce and are already subject to federal safety regulations, the federal government should determine guidelines for appropriate signage at private crossings. Federal guidelines on signage should provide national uniformity, and should provide a consistent message to the road user, whether the crossing is public or private.

- *Should there be Nationwide standards for warning devices at private crossings, or for intersection design of new private crossings?*

Yes, guidelines should be developed by committees of experts similar to the NCUTCD and the Technical Working Group established by the U.S.DOT.

- *How do we determine when a private crossing has a “public purpose” and is subject to public use?*

Guidance, appropriate descriptions and definitions should be provided in the “Highway-Rail Crossing Inventory Instructions and Procedures Manual” published by the FRA. The railroads, with the cooperation of private property owners, should be required to provide adequate data or other information regarding the intended use of the private crossing.

- *Should some crossings be categorized as “commercial crossings” rather than as private crossings?*

No, the option of identifying a private crossing as “commercial” already exists on the

inventory form.

- *Are there innovative traffic control treatments that could improve safety at private crossings on major rail corridors, including those on which passenger service is provided?*

The same traffic control devices considered for use at public crossings should be used for private crossings.

- *Should the DOT request enactment of legislation to address private crossings? If so, what should it include?*

The responsibility for maintenance, signage and safety improvements should remain with the railroad and private road owner. Enactment of new legislative mandates should only be considered if adequate funding is appropriated. The Iowa DOT does not have legal authority to enter onto private property for inventory or regulatory purposes at private crossings, nor do we wish to obtain that authority.

- *Other comments*

According to the national crossing inventory maintained by the FRA, Iowa has 3,423 private crossings of the following types: 73 % farm; 16% industrial; 9% residential; 1% recreational; less than 1% commercial. However, we believe the FRA inventory count is not accurate. As an example, Union Pacific records indicate 654 private crossings in Iowa versus the 1426 UP crossings shown in the national inventory maintained by FRA.

The Iowa Department of Transportation appreciates this opportunity to submit comments regarding safety at private highway-railroad grade crossings. If you have any questions, please contact me at 515-239-1052.

Sincerely,



Peggy Baer, Director  
Office of Rail Transportation



1 SAFETY AT PRIVATE HIGHWAY RAIL GRADE CROSSINGS

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COMMITTEE HEARING

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WASHINGTON, D.C.

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JANUARY 23, 2007

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REPORTED BY: CARLA L. ANDREWS, CSR NO: 78506

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FILE NO.: A00A5A9

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SAFETY AT PRIVATE HIGHWAY RAIL GRADE CROSSINGS

Committee meeting, taken at the Marriott Hotel  
Washington, D.C., commencing at 3:50 p.m., Tuesday  
January 23, 2007, before CARLA L. ANDREWS, CSR No.  
78506.

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A P P E A R A N C E S

FOR THE PANEL:

- MIRIAM KLOEPPPEL
- GUAN XU
- PAUL WORLEY
- RICHARD CAMPBELL
- WILLIAM BROWDER
- AIDAN NELSON

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P-R-O-C-E-E-D-I-N-G-S

THE MODERATOR: The session today No. 071 is a panel session on the safety of private highway rail grade crossings. My name is Anya Carroll, and I am the chair of the Highway Rail Grade Crossings Committee, HB 60. And I am happy to be here today to moderate this session with our distinguished panel, which I will introduce in a moment.

The TRB Committee is happy to support the FRA in its safety inquiry on private crossings. And as such, an occurrence today is that we have a stenographer with us, which will be transcribing the comments so that we can capture everybody's ideas and thoughts and questions on the private crossing issue.

So because of that occurrence, I would like to make sure that before you speak, you actually introduce yourself -- your first and last name. If you could spell your last name the first time that you speak, that would be helpful to the stenographer. Also, if you speak a bit more slowly, she is more than likely to capture your thoughts more accurately.

So thank you all for attending.

Our distinguished panel today from the Federal Railroad Administration is Miriam Kloeppel. And she is with the Office of Safety. We have Guan Xu

1 from the Federal Highway Administration; Bill Browder  
2 from the Association of American Railroads; Rick  
3 Campbell from Railroad Controls, Limited; Paul Worley  
4 from North Carolina, DOT; and Aidan Nelson from the  
5 Rail Safety and Standards Board in the United Kingdom.  
6 I would like to welcome our panel of distinguished  
7 guests.

8           With that, I just have a few more opening  
9 remarks. As far as the temperament of the panel  
10 session this afternoon, each panel member will give a  
11 five- to ten-minute position statement, which will take  
12 us to about 45, 50 minutes of the session. And then it  
13 will be an open discussion amongst all of us here in  
14 attendance and the panel members.

15           And we are open to any comments, questions,  
16 concerns that you have about the safety of private  
17 highway rail grade crossings. Two other things that I  
18 would like to mention is our committee meeting, the  
19 Highway Rail Grade Crossing Committee meeting, will be  
20 tomorrow at 8 a.m. till noon. And it is in Lincoln II,  
21 which is on the exhibition level across from the poster  
22 sessions. And I would also like to invite you to  
23 Syracuse, New York on February 15, at the Doubletree  
24 Hotel where we will be holding our fifth and last  
25 public meeting on safety of private crossings highway

1 rail grade crossings.

2           So with that, I will have the panel members  
3 give a short introduction of themselves and we will  
4 continue. So we will start with Miriam Kloeppel.

5           MS. KLOEPPPEL: Good afternoon, ladies and  
6 gentlemen. Thank you for coming. Private crossing  
7 safety has for some time been a matter of concern to  
8 the U.S. Department of Transportation and to other  
9 federal agencies. In 1993 the FRA hosted an open  
10 meeting to initiate industry-wide discussions.

11           And in a 1994 rail highway safety action  
12 plan, the U.S. DOT proposed to develop national minimum  
13 standards for private crossings. In a 1997 study on  
14 safety at passive grade crossings, the NTSB highlighted  
15 the need for some system to improve private crossing  
16 safety and recommended that U.S. DOT, in conjunction  
17 with the states, determine governmental oversight  
18 responsibility for safety at private grade crossings.

19           In 1999 the NTSB weighed in again in its  
20 report on private grade crossings incidents in Portage,  
21 Indiana. In this case, the NTSB recommended that the  
22 DOT eliminate any differences between public and  
23 private crossings with regard to funding or  
24 requirements for safety improvements.

25           In 2004 the U.S. DOT published an updated

1 action plan in which the FRA committed to leading an  
2 effort to define responsibility for safety of private  
3 crossings. Today's meeting is a vital part of that  
4 effort.

5           The FRA, for any of you who are not familiar  
6 with us, has eight regional offices geographically  
7 distributed across the country. As you can see from  
8 this chart, regardless of the region, private crossings  
9 constitute a significant percentage of all grade  
10 crossings. The total combination wide is about  
11 94,000.

12           Although accidents at public crossings have  
13 declined considerably over the past 20 years, declining  
14 by one third over the past decade alone, the number of  
15 accidents at private crossings has remained  
16 comparatively stable, declining only 10 percent over  
17 the past decade. In most years, the number of  
18 fatalities occurring in accidents at private crossings  
19 exceeded the number of on-duty deaths among railroad  
20 employees in all rail operations.

21           Now, the FRA has not entered into this  
22 initiative with any preconceived notions of what  
23 direction we are going to take ultimately. In order to  
24 best guard the information and the input from members  
25 of the public and from members of interested parties,

1 we have conducted a series of public meetings. As you  
2 can see, they have been scattered across the country.  
3 And we have had good attendance, although occasionally  
4 some bashful participants. And as I have mentioned, we  
5 will have our last one on February 15. You know, I  
6 left off the seven, so it may be hard because it's  
7 going to be February 15, 200. That's a little bit in  
8 the past. Sorry about that. But, yes, it will be next  
9 month.

10           Among the issues that we have discussed in  
11 the public meetings are these here, particularly the  
12 need for standardization, both in science and in  
13 design, various rights and responsibilities, according  
14 to the different parties involved, private crossing  
15 owners and railroads, and what the data might mean.  
16 There are obviously other subject areas. These were  
17 just a principal topic area. And we have quite a few  
18 comments on them. But I don't want to dive into what  
19 all those were because I need to make room for  
20 everybody else, including you all, to have time to  
21 discuss things.

22           I will be happy to answer questions.  
23 Information from the FRA will be published in our  
24 report based on the discussions that were held. And we  
25 do have a docket in place. As you can see, it's on the



1 U.S. DOT docket web page. And it is Docket Nos.  
2 23281. So if you are curious about the specifics of  
3 what went on in the public meetings or if you have  
4 comments of your own to contribute, I would like to  
5 encourage you to do so.

6 Thank you.

7 MS. XU: Good afternoon. My name is Guan  
8 Xu. I am the program manager for Railroad Highway  
9 Safety Program and Office of Safety Federal Highway  
10 Administration. When I told my team leader that I was  
11 put on a panel at the TRB to talk about issues  
12 regarding safety at private crossings, he asked me what  
13 are you talking about? We haven't done anything for  
14 private crossings. Our program is limited to public  
15 crossing only. And that's beyond our programmatic  
16 authority. So I said, I just got an idea of what I  
17 want to say. I think I will talk, you know, briefly  
18 about our program. It may be helpful for people to  
19 understand why we have not done anything yet. And, you  
20 know, also to help people to understand the issues and  
21 challenges that we are facing when it comes to private  
22 crossings.

23 The Federal Highway Rail Grade Crossing  
24 Safety Program, as most of you already know, is often  
25 referred to as the Section 130 because we got our

1 regulatory and statutory authority from Section -- from  
2 Title 23 U.S. Code, Section 130, and also from the 23  
3 CFR, Part 646. That part gives us problematic  
4 authority over the railroad highway grade crossings.  
5 And the program is one of the federal aid funding  
6 programs. So it is funded through transportation  
7 bills. The current transportation bill, SAFETEA-LU,  
8 authorized \$220 million per year was authorized from  
9 fiscal year '06 to fiscal year '09 and set aside funds  
10 under the Highway Safety Improvement Program.

11           And Section 130 can be used on installation  
12 and updating the protective devices, such as flashing  
13 lights, gates, and signs. And it is also attributable  
14 to possible public policies. And I will emphasize that  
15 one of the important factors for the Section 130 funds  
16 is the number of public at-grade crossings in each  
17 state. So each state gets their portions based on, you  
18 know, 50 percent of Section 130 funds based on the  
19 number of public crossings.

20           You can see that the current Section 130  
21 program is a federal-aid funding program. And current  
22 regulations on federal-aid programs limits FHWA's  
23 problematic authority to only public grade crossings.  
24 And I think this is one of the reasons why we have not  
25 been successful to take on issues at private

1 crossings. For example, in 1999, FHWA proposed a  
2 section to the MUTCD that contained a definition,  
3 standard, and guidance for traffic control devices at  
4 private crossings. But FHWA eventually had to withdraw  
5 their proposal because the railroad industry objected  
6 to the proposal, challenging FHWA's lack of statutory  
7 authority and the economic impact on the industry. And  
8 a number of states also opposed the inclusion of  
9 private crossing standards due to state laws associated  
10 with their lack of jurisdiction of public roads.

11 So the issue that needs to be addressed  
12 includes the allocation of responsibilities, associated  
13 costs, and appreciated traffic control devices and,  
14 also, what's the appropriate traffic control on these  
15 crossings.

16 As Miriam had talked about, FRA has initiated  
17 a safety inquiry to investigate safety concerns at  
18 private crossings. And FHWA will continue working with  
19 FRA and will take appropriate actions accordingly  
20 depending on the outcomes from the FRA's private  
21 crossing initiative. And that's all I have to say.  
22 Thank you.

23 MR. WORLEY: Good afternoon, I am Paul  
24 Worley. I am director of Engineering & Safety with the  
25 North Carolina Department of Transportation. I was

1 asked to come to be on this panel to talk to you this  
2 afternoon about private railroad crossings. And I want  
3 to talk to you some about our experience and some of  
4 the things we have done in North Carolina. I don't  
5 have any slides here, per se.

6 But you may have heard about our project, the  
7 Sealed Corridor. Following the Sealed Corridor  
8 Project, we realized that we needed to do something at  
9 private crossings because when we had done diagnostics  
10 on our corridor between Raleigh and Charlotte, we  
11 discovered there were many, many private crossings in  
12 various states of maintenance and ownership.

13 Using the Sealed Corridor approach, we used  
14 off-the-shelf technologies different ways. We also  
15 emphasized used corridor diagnostic teams and closures  
16 and alternative access whenever possible. So we took  
17 that same approach when we looked at the private  
18 crossing safety initiatives. We even signalized  
19 crossings with high volumes and some public use as  
20 well.

21 North Carolina is one of the few states to  
22 pursue private crossing safety projects and inventory.  
23 We have done this through a \$1.9 million grant from the  
24 FRA through the Next Generation High-Speed Railway  
25 Program by virtue of North Carolina having a federally

1 designated high-speed railway corridor -- the Southeast  
2 high-speed railway corridor.

3           And the approach that we have taken with  
4 private crossings, first of all, was to do a  
5 comprehensive diagnostic of all 47 crossings that  
6 remain between Raleigh and Charlotte. And the approach  
7 there was -- you always hear about data; garbage in and  
8 garbage out. We want to make sure we have the most  
9 appropriate inventory data that we could provide and  
10 use them to make decisions. So we were able to fund  
11 that particular study, do that comprehensive  
12 diagnostic. And we found that, you know, we had a lot  
13 of inaccuracies in inventory. We had already very  
14 sparse coverage on private crossings. We also had the  
15 sheer number of private crossings out there to deal  
16 with as well.

17           So it certainly opened the eyes of our  
18 diagnostic teams and our department as we looked at  
19 crossing safety in corridors because in North Carolina  
20 we believe that our best approach has been to use the  
21 corridor diagnostic approach and creating all the  
22 crossings into a particular area, both public and  
23 private.

24           There are many changes that are involved with  
25 private crossings. And it is our point of view. We

1 are not representing any one policy. But this is a  
2 unit of government that took on this project and has  
3 completed a good part of it.

4 As far as the challenges go, generally there  
5 are no public funds for private crossings that are out  
6 there because, as Guan said, you cannot use Section 130  
7 money. You can use Section 130 money for crossings  
8 that are lightly travelled public roads because you  
9 can't use it for heavily travelled private crossings.  
10 So there is a real dichotomy there and issues that have  
11 to be within the policy.

12 There are varied types of private crossings.  
13 Various folks have their own definitions. What we  
14 looked at were private-use residential, farm,  
15 industrial, plant to plant within an industry, railroad  
16 use, private crossings. We also had public use for  
17 residential development, such as private communities,  
18 business, industrial, recreational, and what's most  
19 important in North Carolina, golf cart crossings.

20 Now, by the time private crossing present  
21 themselves at the state level and make their way to my  
22 office, they are politically charged. And I know this  
23 comes as a shock to you, but often all we can do is  
24 listen. Sometimes it may be a farmer who has driven  
25 all the way to Raleigh and wants someone just to listen

1 to them because the railroads are going to close their  
2 private crossing. And that's what we have had to do in  
3 the past. We have tried to listen. We have tried to  
4 understand. We have tried to encourage private  
5 individuals to keep talking with the railroads and try  
6 to negotiate a win-win situation. We try to express  
7 why the railroads need less private crossings and  
8 better protected private crossings.

9 Private agreements and deeds may cover the  
10 crossings -- private crossings -- and may involve  
11 multiple parties over multiple years. And it is very  
12 difficult to go back and find one agreement for each  
13 crossing on a particular corridor. So you have to do a  
14 lot of digging and a lot of research, and still you may  
15 not find all the data you are looking for. Resources  
16 in state DOT's to maintain an accurate inventory of  
17 private crossings are not there at the state DOT or  
18 even at the railroad level. We are really trying to  
19 work harder on our public rail crossing inventory. But  
20 inventory and data gathering remains fairly important.  
21 But at the same time, it is something that is  
22 unfortunately not well staffed and well funded.

23 We have also, in addition to looking at the  
24 federally designated high-speed corridor, we also  
25 looked at private crossing as part of the corridor

1 studies. We did a commuter line in the Charlotte area  
2 in the private crossings there as far as what could be  
3 closed, what should be improved, what should be  
4 consolidated down to public access crossings. And  
5 through doing this, we have learned that we have got to  
6 partner with the owning and operating railroads to find  
7 comprehensive and innovative approaches.

8           When we started and we hosted the FRA  
9 hearings back earlier late last year in North Carolina,  
10 we talked about some of the issues that faced the  
11 private crossings that faced FRA and faced the states.  
12 And we talked about like, for instance, is the current  
13 assignment of responsibility, is that effective. You  
14 know, our thoughts on that was it is not consistent.

15           Each railroad determines what can be done to  
16 improve the safety and manage the risk at private  
17 crossing. They do their own things. We feel there is  
18 a significant need to collect, correct, and update  
19 inventory information into the national and state  
20 inventories.

21           And U.S. DOT through the railroads, through  
22 the states, through rail transit operators should  
23 collaborate to develop a consistent approach, such as  
24 was done with the Crossing Technical Workgroup to  
25 develop that document through the ITE.



1                   One of the issues was cost -- maintenance  
2 cost, improvement cost. Stakeholders, federal and  
3 state agencies, local governments, transit authorities,  
4 and railroads, and private crossing owners may  
5 eventually need to develop some kind of methodology to  
6 share costs. It can't all be put on the public side.  
7 It can't all be shouldered by the railroads. There is  
8 a need to develop a methodology to share costs  
9 associated, construction and maintenance, based on  
10 local conditions and needs.

11                   Considerations are these transit corridors  
12 where there are passenger rail corridors that travel at  
13 higher speeds. Are there quiet zones? Are there  
14 critical inter-modal corridors for rail freight? All  
15 of these have a private and public sector interest as  
16 part of a multi-modal transportation system. And  
17 capitalization of future maintenance costs should also  
18 be considered. That was one of the big issues we  
19 had. While we have federal grant funds to pay for the  
20 devices and capital, we did not have ongoing  
21 maintenance. So we worked with railroad to capitalize  
22 maintenance. So that's the approach we considered as  
23 well.

24                   Also, disputes. We talk about the farmer  
25 coming to your office or property owner and his concern

1 about losing their private crossing. There is no way  
2 to handle these disputes. There is no dispute  
3 resolution process. There needs to be some kind of  
4 model legislation. One of the issues was should the  
5 state or Federal Government assume a higher level of  
6 responsibility. Our feelings were that, first,  
7 national guidelines should be considered for  
8 development by the stakeholders. You have got to get  
9 the stakeholders together to figure out what way to go  
10 with this.

11 We talked about warning device standards.  
12 Should there be national standards for warning devices  
13 at private crossings. And some of this is being done  
14 through the National Conference of Uniform Traffic  
15 Control Devices. And then, finally, how do you  
16 determine a crossing is public purpose and it is  
17 subject to public use. Again, we get back to the  
18 stakeholder. You need to look at commercial crossings  
19 versus private crossings. So there are a number of  
20 issues out there as well before you even get to  
21 legislation.

22 That's basically my summary of the issues  
23 that we have. We feel that we had a pretty good level  
24 of success. But it is not to have funding to be able  
25 to go and negotiate with the property owners and buy

1 alternative access to close any troublesome private  
2 crossing or to be able to signal any crossing that may  
3 lead into a private trailer park with a lot of  
4 residents that need the crossing, too. So that's one  
5 of the luxuries we have had in North Carolina. We feel  
6 like we can make most of the money. And we think that  
7 we could have the beginning of a model that uses the  
8 Diagnostic Team process and designates crossings that  
9 could perhaps be put to use elsewhere in the public  
10 corridors. Thank you.

11 MR. CAMPBELL: Good afternoon. I am Rick  
12 Campbell with Railroad Controls, Limited. And I am  
13 here to speak to you, I guess, on behalf of Rick  
14 Campbell and a number of different groups that I work  
15 with, including the National Committee on Uniform  
16 Traffic Control Devices, where I chair the Railroad and  
17 Light Rail Transit Technical Committee. However, I  
18 want to clarify that a lot of the views that you are  
19 going to hear aren't my own. They are derived from  
20 numerous meetings and organizations that I work with.

21 The issue of private highway rail grade  
22 crossings, as you have already begun to develop  
23 ideas -- and certainly a lot of folks in this room are  
24 familiar with -- is a complex issue. It involves the  
25 railroad, a private landowner, and then potentially

1 other governmental agencies, such as FRA and FHWA. And  
2 private highway rail grade crossings are unique because  
3 they have largely been considered to be private matters  
4 of interest between the railroad company and the  
5 private landowner. And one of the things is they have  
6 been researched and inventoried. And some railroads  
7 have made significant strides towards inventory of  
8 private highway rail grade crossings. And in many  
9 cases, there are no documents that serve to establish  
10 the relationship between the railroad and the  
11 landowner. And that would include, of course, right of  
12 way over the crossing, maintenance of the crossing, and  
13 other safety issues, such as site distance and traffic  
14 control devices, and who has the responsibility for  
15 those.

16           So from the very basic beginnings of the  
17 private highway rail grade crossings, there's a point  
18 that exists relative to those crossings and the  
19 supporting documentation. In some states as well,  
20 although they are not public crossings, the State  
21 Public Utility Commission or Commerce Commission has  
22 assumed some degree of regulatory authority over  
23 private highway rail grade crossings from an agreement  
24 perspective but ordinarily from a traffic control  
25 device perspective, although this is inconsistent

1 throughout the United States. However, the lack of  
2 progress made in reducing crashes at private highway  
3 rail grade crossings has led FRA to undertake a series  
4 of information-finding proceedings to solicit comments  
5 from railroads, landowners, state departments of  
6 transportation, and other stakeholders that have an  
7 interest in private highway rail grade crossings to be  
8 able to formulate opinions and ideas and possibly even  
9 rule making on how to address the private highway rail  
10 grade crossing issue.

11 In order to bring some degree of  
12 standardization of private highway rail grade  
13 crossings, one of the first things that's going to have  
14 to be developed is an inventory that's comprehensive on  
15 the private highway rail grade crossing. And,  
16 traditionally, the inventory that has been established  
17 and maintained by the railroads and FRA has been  
18 limited to public highway rail grade crossings. So  
19 this is going to provide another large expansion of the  
20 inventory.

21 In addition, FHWA and FRA are going to have  
22 to work closely to be able to develop a relationship  
23 that will allow establishment, standardized traffic  
24 control devices, and definitions as to private highway  
25 rail grade crossings in order to have an effective

1 cooperative effort.

2           At the present time, the manual on uniform  
3 traffic control devices does not specifically define  
4 public roadways separately from private roadways.  
5 MUTCD deals only with traffic control devices on public  
6 roadways or roadways open to public traffic. And  
7 recently FHWA has gone through an amendment and  
8 regulatory process to more clearly define the term open  
9 to public travel. That was handled through 23 CFR 655  
10 and has recently been enacted as a final rule.

11           One of the things, though, that MUTCD lacks  
12 is the definition of other than a public road, which we  
13 do have a definition of a public roadway, that being  
14 any road or street under the jurisdiction of and  
15 maintained by a public agency and open to public  
16 travel. So you see where the open to public travel  
17 comes into this. MUTCD is silent about any other type  
18 of roadway that's not public.

19           In order to try and bring some order to these  
20 different types of crossings because you have already  
21 heard some comments from Paul about classes of  
22 crossings -- and obviously there is a clear need for a  
23 definition of a private roadway. And if we take what  
24 exists in MUTCD today and expand on that, one could  
25 derive that the definition of a private roadway would

1 be any road or street under the jurisdiction of and  
2 maintained by a private entity and not open to public  
3 travel.

4           Well, those are fairly easy to define as well  
5 because that could be a roadway that's closed by a  
6 locked gate, posted with no trespassing signs, or there  
7 is some other type of barrier or gated access that  
8 prohibits the general public from access into this  
9 particular roadway. But one of the problems begins to  
10 surface when we have crossings that serve businesses.  
11 For example, a private roadway that has a highway rail  
12 grade crossing, which allows access to a retail  
13 development or restaurants or other types of commercial  
14 facilities, those that are clearly owned by a private  
15 agency but from the public's perspective are open to  
16 public travel.

17           And for that, I have proposed a third  
18 category and actually presented this to the Edit  
19 Committee of the National Committee on Uniform Traffic  
20 Control Devices. And what I proposed is a category  
21 known as a semi-public public roadway. And that would  
22 be any road or street under the jurisdiction of and  
23 maintained by a public entity and open to public  
24 travel.

25           And this third category allows us then to

1 classify these crossings, which are clearly on private  
2 rights of way but, from the public's perspective, open  
3 to public travel. Now, this work, of course, will have  
4 to go on within FHWA and MUTCD. But one of the  
5 benefits of this particular category -- and not to  
6 duplicate what Paul just talked about. But one of the  
7 points of having a semi-public category is that it  
8 would allow the discretionary use of public funding for  
9 traffic control devices or other types of  
10 improvements. And because this is such a broad  
11 category, I don't know that we are going to be able to  
12 find successfully a definition to cover all  
13 applications.

14           So with MUTCD traffic control devices at  
15 highway rail grade crossings, they are actually  
16 developed through a process using a group of folks  
17 known as a Diagnostic Team. And the definition of a  
18 Diagnostic Team exists in 23 CFR 646. And it is a  
19 group of parties of interest in a highway rail grade  
20 crossing matter. And if we take that Diagnostic Team  
21 concept and expand it to the semi-public crossing  
22 category, we now have a means where the Diagnostic  
23 Team, which would include representation from the  
24 public agency -- applicable public agency. We would  
25 have some means to make a determination as to



1 applicability of federal funds and how they might be  
2 applied.

3           For example, a semi-public crossing that  
4 serves a retail development would in probably all  
5 circumstances not be deemed to be one which would be  
6 subject to the use of federal funds because we looked  
7 at a developer or landowner responsible for those  
8 traffic control devices. However, a semi-public  
9 crossing that serves -- and I will use Paul's example  
10 of a private trailer park where there are numerous  
11 residents and potentially school buses, which use this  
12 crossing -- may be determined to be in the public's  
13 best interest received some or all federal or public  
14 funding to be able to provide improvements to the  
15 crossing and traffic control devices. So it is the  
16 ability and the discretion of the Diagnostic Team to be  
17 able to on a case-by-case basis make an allocation of  
18 whether the use of federal funding is appropriate.

19           And then finally from FRA's perspective,  
20 there was some mention earlier about a short-line  
21 railroad that exists in south of New Orleans called the  
22 New Orleans Gulf Coast Railroad. And they are  
23 currently fighting a battle with unauthorized private  
24 highway rail grade crossings. And the establishment  
25 through local citizens of the private crossings at will

1 can literally back up a dump truck and dump asphalt  
2 over the tracks and establish a private crossing  
3 clearly trespassing upon private right of way owned by  
4 the railroad company. However, because there is no  
5 clear-cut regulatory authority over these private  
6 crossings, the state boards have been reluctant to  
7 enforce actions by the railroad to be able to establish  
8 their right of way and protect their right of way from  
9 these illegal private crossings.

10                 So as the third leg to the stool, if you  
11 will, I would like to suggest that FRA, as part of  
12 their fact-finding process, consider the rule making  
13 which would provide some degree of authority through  
14 FRA or a state department of transportation to regulate  
15 the establishment of private highway rail grade  
16 crossings to provide for the inventory and that that  
17 inventory would include data, including maintenance  
18 responsibility, surface traffic control devices, and  
19 other information, which would be applicable at each  
20 crossing.

21                 And as a closing point, I would say that were  
22 the party responsible for maintenance of the devices  
23 fail to maintain the devices or the surface or track  
24 structure or various elements that the crossing would  
25 be subject to closure.

1                   So I will close with those comments. Like I  
2 say, in closing I want to make the comment that I think  
3 that in the past we have been somewhat misdirected by  
4 the fact that we have looked at ownership of the  
5 roadway as establishing public or private and that the  
6 real issue is not ownership or maintenance of the  
7 roadway itself but the expectation of free access by  
8 the public.

9                   Thank you.

10                  MR. BROWDER: Good afternoon. I am Bill  
11 Browder from the Association of American Railroads.  
12 And I want to apologize upfront to those of you that  
13 have had to listen to my presentation at least one or  
14 more times before because a lot of what I will talk  
15 about is material that AAR and myself have presented in  
16 the past. First, let me tell you a little bit about  
17 the Association of American Railroads. It is an old  
18 established organization created back in 1888 after the  
19 war for the primary purpose of standards and  
20 practices.

21                  And the first standard that we established  
22 and still use today is standard time. We were the  
23 inventors of standard time just like Al Gore says he's  
24 the inventor of the Internet. But we put it all  
25 together back in 1888 because everybody had a one- or

1 two-minute's difference in the time that they kept in  
2 every locality around that country in those days. And  
3 so we created the time zones.

4 Now, we don't take any credit for Daylight  
5 Savings Time. Mark on your calendar March 11 because  
6 we will be going back to that before we ever see the  
7 sun again in Washington, D.C. or we get away from the  
8 snow. But that's your U.S. Congress at work.

9 More about the AAR. The AAR still is a  
10 standards practices organization today maintaining a  
11 number of different standards. We also operate for the  
12 Federal Railroad Administration the Testing Center in  
13 Colorado. And it was premier Testing Center in the  
14 world. And folks from all around the world come and  
15 use the facilities there for a number of different  
16 venues that exist. We also have another profit-making  
17 subsidiary in North Carolina outside of Paul's hometown  
18 of Raleigh there that is responsible for the  
19 interchange documents that we are involved in.

20 AAR is an association of the members in North  
21 America of the Class One railroads and some other  
22 folks. And we basically represent them. And the only  
23 costs that we have, unlike the Federal Railroads  
24 Administration command and control authority through  
25 the code of federal regulation, is interchange. We

1 don't have any more control over any of our members  
2 other than interchange. You know, the rails out there  
3 again after the war are 56 and half inches apart. And  
4 if you want to run them on those rails, you have got to  
5 have your equipment 56 and half inches apart. And it  
6 goes downhill from there as far as standards are  
7 concerned, but we have managed to do that since 1888.  
8 And it has developed a long and lasting relationship by  
9 private companies who are in business to make money for  
10 their stockholders, for their shareholders.

11           And so as such, AAR has many concerns about  
12 any issue that the government may be interested in  
13 addressing. I think there isn't a person in this room  
14 or organization that isn't interested in the common  
15 objective of safety at highway rail grade crossings.

16           To AAR -- and the views that I will express,  
17 especially since they are being transcribed, will be my  
18 own and not the AAR's espoused position because we have  
19 quite a few members who have different views concerning  
20 these particular issues. And I am sure if you talked  
21 to them individually and they have come to these public  
22 sessions, they will be more than happy to provide  
23 comments upon the issues from their individual  
24 perspectives. I will give you a few things, though,  
25 that do apply.

1           First of all, at any highway rail grade  
2 crossing, railroads derive absolutely no benefit from  
3 those crossings being there. And that's stated in 23  
4 CFR distinctly in the highway section of the CFR. And  
5 that's a very important thing to us. Another important  
6 thing to the railroads is that we are not the experts  
7 on treatments at highway rail grade crossings. The  
8 Highway Authority is the expert. Now, we are involved  
9 in private railroad crossing by default in the issue of  
10 treatments at grade crossings. But, again, we have a  
11 lot of concerns about those issues, especially as I  
12 mentioned in that it affects our stockholders. And  
13 these are expensive with the 93,000 private crossings  
14 and add to it the 150-sum public crossings that are out  
15 there today. Railroads in the United States spend over  
16 half a billion dollars a year on highway rail grade  
17 crossings, \$500 million plus in maintenance, upkeep,  
18 liability, and activities that go on at grade  
19 crossings.

20           We don't have any large force of individuals  
21 out there to design and promote. We have got to do it  
22 within our own engineering departments or contract  
23 people to do that. The maintenance that we have to do  
24 to CFR Part 234 requires us to make an on-site  
25 inspection of every active warning device crossing.

1 And there are over 65,000 of those out there in the  
2 United States. And you can imagine the cost of sending  
3 an individual to those crossings. Only about a  
4 thousand of the 93,000 private crossings have active  
5 warning devices. So they are few and far between. And  
6 most of them happen to be there because of the railroad  
7 insisting with everyone from state DOT's to private  
8 industries that they be installed for safety sake at  
9 crossings. I don't think that anything that comes out  
10 of hearings and studies will show that there is a  
11 one-size-fits-all solution with the number of  
12 stakeholders that we have that are involved in this  
13 issue.

14           You can already tell from those that are  
15 involved that we have to deal with 50 different state  
16 DOT's even though we get 120 through the 130 program to  
17 administer the programs that we have. Now, we have  
18 very established relationships, but different things  
19 work in different places. If you look at the Docket  
20 23281 in case you missed it the first time around in  
21 the hearing, you will see a little short-line railroad  
22 down in Louisiana. I mean, that's a deposition in the  
23 making for you lawyers out there of what happens at  
24 private rail crossings. And that includes such things  
25 as folks in the good parishes down there going out and

1 dumping a load of asphalt across their right of way and  
2 identifying that as a private highway rail grade  
3 crossing. So it is a fertile field as far as issued by  
4 the way that railroad took it to court. They have been  
5 to federal court twice and had been thrown out. And  
6 they spent about \$700,000 fighting these innumerable  
7 illegal crossings that they say exists down there.

8           But there are some common things that we can  
9 talk about in terms of safety because safety is first,  
10 always has been and always will be. And when I say  
11 safety, first, there is safety of our employees. We  
12 don't get anything out of those crossings, but we get  
13 our employees hurt, we get them killed, we get  
14 derailments. We get all kinds of issues that occur.  
15 UPS and FedEx, two of our best customers, don't care  
16 that we have a crossing accident at a private crossing  
17 some place on the right of way that delays the delivery  
18 of their traffic. And their customers are calling into  
19 the FedEx people wanting to know where their materials  
20 are. And so are our other industry customers, whether  
21 they are J.C. Penney and your sneakers that you are  
22 getting or they are a plant or a Chevrolet someplace  
23 that needs a widget to complete an auto on an assembly  
24 line.

25           So those are factors that we are interested



1 in. And, again, it is an important thing to our  
2 operations, our equipment, our employees, and safety  
3 overall. There are a number of things that have been  
4 done. I commend Rick's suggestion in terms of  
5 semi-public access -- semi-public crossing for those  
6 that have public access. I don't think there is any  
7 one-size-fits-all solution, as I said. And I think,  
8 quite frankly, I have got to commend the FRA for taking  
9 the initiative to at least get the process going on the  
10 issue.

11               So with that, I will finish and pass it along  
12 to the other side of the pond. And we are happy to  
13 have Aidan here to talk about where all the action is.

14               MR. NELSON: Thank you. I stood in this room  
15 about five years ago when we first talked about  
16 managing risk at private crossings. So I thought,  
17 well, however the presentation runs, I will just give  
18 some thoughts. And the thoughts start right back in  
19 the middle of the 19th century because private  
20 crossings were the price that railways had to pay to  
21 get their line of routes approved.

22               And for every crossing that was created, it  
23 was public. There were very distinct obligations  
24 placed on the railway. If it was private, there were  
25 pretty generic and often discreet obligations placed on

1 the railway. But for every crossing that was private  
2 back in 1850, it was an agreed, main, authorized user.

3           So the first issue is trying to keep tabs of  
4 the succession from the original authorized user or  
5 users if more than one property was accessed a private  
6 crossing. It's a considerable challenge to the  
7 railway. And in Britain, it has become a far greater  
8 challenge in recent years with the planning rules being  
9 altered to permit development and agricultural  
10 properties to encourage employment in rural areas. And  
11 that's actually moved this quite a long way from a  
12 single farmer and his family and those associated with  
13 his business.

14           We have a situation, which the authorized  
15 user is supposedly responsible for ensuring that his  
16 visitors understand the rules of engagement for the  
17 private-level crossing. In practice, most farmers will  
18 say they do it but don't do anything. And indeed, with  
19 a move from farmers having their own hired hands to  
20 agricultural contracting, we have moved even further  
21 from the idea that the authorized user knows who's  
22 coming to work on his land.

23           We have recently had an accident in which  
24 there were a gang of immigrants from Britain, some  
25 illegal, none of which had an adequate command of

1 English to understand the instructions for the use of  
2 the crossing.

3           So in certain parts of the country, we are  
4 now producing information leaflets about the safe use  
5 of private crossings in a multitude of languages from  
6 Polish to Iraqi and Arabic. So we have got that.

7           We have a second language in parts of  
8 Britain -- Welsh. And that gives us a complication  
9 because you have in Wales signs in both English and  
10 Welsh. But the longer you make the signs, the less  
11 people pay attention to them, particularly if Welsh  
12 comes first, which hardly anyone uses it, other than  
13 officially. That's one of the obligations on the  
14 railway is to sign the crossing with the arrangements  
15 of its use. And that takes the form of a sign to  
16 indicate that it is private, a statement that the  
17 penalty for abusing the crossing which, in most cases,  
18 is a function of it being five-bar gate on either side  
19 of the railway because the railway has an obligation to  
20 fence itself. And that was a continuous fence. So at  
21 each private crossing you have a five-bar gate on  
22 either side.

23           It is not the safest form of railroad  
24 crossing because if you are going to use it properly,  
25 you first get off your vehicle, you open the near-side

1 gate. You walk across the grade crossing to open the  
2 far-side gate. You remember to look again, and you  
3 come back to get to your vehicle. You mount your  
4 vehicle, take it across your third crossing of the  
5 railway, you get off. You remember to look again, you  
6 walk back over, you close the gate. You come back over  
7 for the fifth time and close the other gate.

8           And if you are the mailman and you are only  
9 going to the farm to deliver the mail, what do you do?  
10 You leave the gates open for your return. And you  
11 think, well, it is Friday, the refuse man comes. So  
12 you leave the gates open again. And what you go from  
13 is a passive user work crossing with a distinct barrier  
14 to indicate the presence of the railway to a passive  
15 open crossing.

16           We all know what happens on passive open  
17 crossings. You actually increase the risk. Now, we  
18 have been, some would say, a little stupid in Britain  
19 where we have high use of property crossings. We have  
20 put in miniature warning lights to indicate whether the  
21 line is clear or there is a train coming. And that  
22 just converts it to an active open crossing. And the  
23 idea of returning the barrier and closing the gate is  
24 even further from the user's mind.

25           So we have got a dilemma. What are we going

1 with regards to the dilemma? Well, first, we are  
2 trying to close the things. We have been reasonably  
3 successful. But most of the farmers and most of our  
4 crossings are in rural areas. Our private crossings  
5 are worked out. If the railway wants to close the  
6 train crossing and it wants to close a lot of them, it  
7 might be paying some reasonable sums of money. But in  
8 some cases, the railway has paid reasonable sums of  
9 money to close it. In others, it has become  
10 extortion. And they have become ransom trips. And I  
11 think whatever you do in the way of legislation, you  
12 have got to take the ransom element out of it. And you  
13 have got to promote rational armistices.

14 I have been particularly impressed by what  
15 the Irish are doing. And they have just taken a very  
16 radical look and sought to reduce the number of private  
17 crossings so that you are buying the land from farmers  
18 who have land on both sides of the railway and selling  
19 the land to other farmers. So they have consolidated  
20 the holding on one side of the railway and removed the  
21 need for the crossings.

22 They have also recognized that you can  
23 separate an agricultural crossing for far less money  
24 than railway engineers would have you believe. They  
25 want you to build something appropriate for the

1 separation of the public highway.

2           So if all you have got is to get cattle from  
3 one side to the other, you want something cattle sized.  
4 You don't want to take the biggest truck you can  
5 imagine underneath the railway. If you would go over  
6 the railway and all you have got to do is to round up  
7 the cattle and bring them back across, they can go up  
8 around a steep of gradients and you can build suitable  
9 bridges. So they have actually gone quite a long way  
10 into the British standard of having a solution.

11           The dilemma we have is when something becomes  
12 public. You can blame the Canadians because of this  
13 because their first prime minister was born in  
14 Scotland. And it was some years ago that the local  
15 authority put a sign at the end of the farmer's lane  
16 pointing out the birthplace -- a tourist sign pointing  
17 out the birthplace of the first Canadian prime  
18 minister. That was seen as an invitation to public  
19 use.

20           Common sense did prevail, and I think the  
21 sign was taken down because the consequence of going to  
22 something that is declared public is that you have to  
23 upgrade the crossing to a public space crossing, which  
24 in Britain is usually, at the very least, an active  
25 open crossing. All the costs would fall to the

1 railway. So what the railway has become is pretty  
2 expert at challenging all of these indications of a  
3 public invitation to cross or where there is an  
4 established public invitation. But it is clearly a  
5 private right of way to reinforcing the private  
6 right-of-way dimension.

7           Sometimes the industry is forced into putting  
8 staff out on Saturdays and the holiday season because  
9 they give access to the camp sites. So everyone who  
10 uses the crossing on the Saturday when they are coming  
11 into camp for the week gets a leaflet advising them of  
12 the arrangements.

13           But that's done in partnership between the  
14 railway and the landowners. The biggest issue for me  
15 in relation to private crossings is that we know quite  
16 a lot about the risk profile. We know that on average  
17 the vehicles that use the crossings are bigger than  
18 most of our rural public crossings, plus farm machinery  
19 on average is pretty heavy. Therefore, the potential  
20 for a passenger train derailment is increased when  
21 compared to the ordinary car.

22           We know that regular users of grade crossings  
23 on work-related journeys are the ones who are most  
24 likely to have an accident. And that's a pretty  
25 central characteristic of the access of the private

1 level crossings.

2           So if we are going to be effective there, we  
3 have got to target the employers who are not usually  
4 the authorized users at the crossings. That's  
5 something that falls to the railway and something  
6 that's done to varying degrees of effectiveness.

7           We have got one other dimension, which I  
8 think is particularly important. We have a  
9 nonstatutory planning guidance that says the planning  
10 authority must consult with -- sorry, should consult  
11 with the railway on any development likely to have a  
12 material impact on the use of the level crossing.

13           We believe that should be a mandatory  
14 statutory obligation to consult the railway because if  
15 we actually got that consultation going first, we might  
16 actually get some sense in the planning approvals,  
17 which would force the hand of the beneficiary for the  
18 planning approval to work with the railway to create an  
19 alternative access.

20           So I think that the possible quick win for us  
21 is toughening the planning regime to create a statutory  
22 obligation to consult and, in light of that, to use  
23 that as leverage to promote alternative access for  
24 developments of the road. Thank you.

25           THE MODERATOR: I would like to thank the



1 panel one last time. And we will open up for questions  
2 after that. Thank you very much. Since the term rules  
3 of engagement were used by Aidan in his last speech, I  
4 would just like to express again the need for -- if you  
5 intend to make a comment or ask a question of the  
6 panel -- and it could be separate entities on the panel  
7 or the whole panel -- please step up to the mic, state  
8 your name, spell your last name for the stenographer,  
9 and ask your question and don't speak too quickly.

10 So with that, is there anybody in the  
11 audience that would like to make a statement?

12 AUDIENCE ATTENDEE: Hi, I am Rich Brown with  
13 TransCo Industries. That's B-r-o-w-n. And my question  
14 is for Rick Campbell. Rick, the 94,000 population of  
15 private crossings, what percentage of those crossings  
16 are semi-public as you defined semi-public?

17 MR. CAMPBELL: Rich, we have had some  
18 discussion about that. And because private crossings  
19 are not currently inventoried, there is no real way to  
20 know. However, there has been a group -- well, Tom is  
21 going to come up and tell us about it. Maybe I should  
22 say not inventoried to the point that we have the types  
23 of data that we have at public crossings in terms of  
24 usage of ADT and surface and warning devices. We just  
25 don't have the degree of information. It is hard to

1 say.

2                   However, some folks, I guess, that would be  
3 considered experts or extremely knowledgeable in the  
4 field can talk. And we feel that the number is not  
5 tremendously large. It's maybe in the neighborhood of  
6 10 percent or potentially less than all of the private  
7 highway rail grade crossings. Sorry, Tom, if I said  
8 that wrong.

9                   AUDIENCE ATTENDEE: Tom Woll, W-o-l-l,  
10 Federal Air Administration. Most people know me.  
11 Yeah, I have got to correct that. Private crossings  
12 are in the inventory, okay. So that's a misstatement.  
13 You are correct that we don't have ADT's in some of the  
14 other information. Sometimes the railroads will  
15 provide the train counts on that. But somebody has got  
16 to go out there and count those automobiles or whatever  
17 is going to cross that. And the question is, Who is  
18 going to do it? Obviously, the states are not going to  
19 do it.

20                   There is a category for whether or not there  
21 is public access in the inventory. We changed that in  
22 November of 1999. However, I don't think that it has  
23 been updated by all of the various states and  
24 railroads. In fact, unfortunately, it was mentioned  
25 earlier in one of the other sessions. There are 20

1 states. And some of them -- I won't say that they are  
2 present here -- have not updated their inventory in the  
3 last six years and haven't initiated any updates. So  
4 if we could get that -- they probably have the data.  
5 We would just like for them to send it to us. So  
6 that's where the big problem is. And that's why the  
7 inventory, in some cases, is not up to date.

8 AUDIENCE ATTENDEE: My name is Gary Drouin,  
9 D-r-o-u-i-n, and I am with Transport Canada. I guess  
10 my first comment goes to Aidan. And my question is,  
11 was that sign in both Canadian official languages,  
12 French and English, because maybe that's what caused  
13 the confusion and not necessarily for the private or  
14 public voracity. I am just joking.

15 My real question goes to Rick. In the  
16 semi-public crossing if -- well, say, there's a  
17 trucking company and there's trucks of course going  
18 in -- delivery trucks going in and maybe a few  
19 customers like FedEx and so on and so forth. Would you  
20 consider that as a private crossing or semi-private  
21 crossing?

22 MR. CAMPBELL: As part of the proposed usage,  
23 we would consider that to be a private crossing because  
24 it is a private business, which has control over its  
25 employees. And then although you do have access by

1 drivers, such as FedEx or UPS or other types of  
2 delivery, all types of delivery, those are generally  
3 drivers that possess a commercial driver's license and  
4 have had additional training, which includes additional  
5 safety training in highway rail grade crossings. And  
6 clearly, that would be -- if that crossing was  
7 exclusively used to service that private business, if  
8 you will, that you would look to the private business  
9 to make any funding to support active or improved  
10 traffic control devices, which even to this day they  
11 could freely do. And, in fact, many private industrial  
12 facilities, especially if there are hazardous materials  
13 and things, actually do have active traffic control  
14 devices at those private crossings.

15 AUDIENCE ATTENDEE: Okay. Thank you.

16 MR. BROWDER: I want to go back to  
17 Mr. Drouin's inquiry about private grade crossings.  
18 And as I stated in the New Orleans public hearing for  
19 the 93 or 94,000 that are out there, the resource for  
20 most of those in the FRA inventory are the railroads.  
21 They are the people that are doing all of the work and  
22 submitting the data -- limited amount of data that Tom  
23 Woll requires. Again, we are a private company. We  
24 don't derive any benefit. We don't see an incredible  
25 safety benefit to providing this information for public

1 purposes.

2           As a matter of fact, some of our members  
3 choose to have fairly extensive information on their  
4 private inventories. But, again, that's a matter of  
5 choice as far as the stockholders of that company are  
6 concerned. And unless we could identify any kind of  
7 significant safety value to us to collecting and  
8 examining that, right now it is a burden on our daily  
9 operations to collect and provide this information to  
10 the FRA. Thank you.

11           AUDIENCE ATTENDEE: Maurice Rached,  
12 R-a-c-h-e-d. This question is for Miriam Kloeppel.  
13 Miriam, how do we deal with situations where the  
14 crossing is owned by an authority that believes that  
15 the crossing is private and does not -- and is not  
16 subject to FRA regulations?

17           MS. KLOEPPPEL: Are you talking something like  
18 a park or something that is apparently a private road  
19 but it has public use like access to a municipal dump?

20           AUDIENCE ATTENDEE: That's a good example.

21           MS. KLOEPPPEL: Those are among the things  
22 that have to be considered. But at the moment, if it  
23 is in our inventory as private crossing, that's all we  
24 know about it.

25           AUDIENCE ATTENDEE: Okay. So you are not

1 taking any action in that regard at the present?

2 MS. KLOEPPPEL: Well, I guess ultimately we  
3 may. But, as I said, this whole effort is to determine  
4 what kind of action we should take for any private  
5 crossing. This is just one possible category of many.

6 AUDIENCE ATTENDEE: Because I agree with Rick  
7 and the other panelists when they indicated that the  
8 motorist doesn't know if it's a roadway open to the  
9 public like the motorist on a public roadway and  
10 crossing unless it is specifically assigned and gated  
11 and identified. Okay. Thank you.

12 MS. KLOEPPPEL: Thank you.

13 THE MODERATOR: Aidan brought a different  
14 perspective to us on how Britain deals with private  
15 crossings. I was wondering if I could ask Mr. Poichuk  
16 to describe the Canadian practice of private crossings  
17 and classification for us. Mr. Poichuk.

18 AUDIENCE ATTENDEE: Phil Poichuk,  
19 P-o-i-c-h-u-k, Transport Canada. Currently, our  
20 standards are departing from the traditional  
21 definition. In Canada, traditionally we had private  
22 crossings in two categories -- basically statutory and  
23 nonstatutory. They are also referred to as by right or  
24 by grace. By right being where the railway in the late  
25 1800's severed land and therefore had a right

1 to -- had the obligation to provide the crossing and,  
2 in fact, maintain it. By grace was where subsequently  
3 a landowner who hadn't had his land severed originally  
4 would need a crossing for other purposes. And then  
5 they would be -- they would enter an agreement with the  
6 railway and usually pay the cost. And, in fact, that  
7 was the by grace one.

8           It basically dealt more with rights and  
9 money, i.e., the maintenance of it, than it did with  
10 the safety responsibility. Our new grade crossing  
11 standards, which I believe Anya and I believe Steve  
12 actually asked me to speak about tomorrow, gets away  
13 from traditional definitions relative to ownership.  
14 And, in fact, in our grade crossing manual RTD 10, as  
15 it is called, we don't use the word public or private.  
16 We get away from that distinction. And we now require  
17 safety amenities based on whether or not it is  
18 restricted or unrestricted for public use.

19           THE MODERATOR: Thank you, Phil.

20           Does the panel have any comments on the  
21 Canadian description and classification?

22           MS. KLOEPPPEL: I think I think they are very  
23 interesting. But it is an interesting different way of  
24 looking at categorization of the crossing.

25           AUDIENCE ATTENDEE: Jim Burnett, former

1 chairman of the NTSB. What kind of records have been  
2 kept of the meetings so far and held in the FRA public  
3 meeting series? Are there transcripts of those  
4 meetings?

5 MS. KLOEPPPEL: Yes, sir, there are  
6 transcripts. And I have been put them up on our -- in  
7 our docket as best as I can.

8 AUDIENCE ATTENDEE: Is the docket available  
9 on the Internet?

10 MS. KLOEPPPEL: Yes, it's actually on our  
11 docket server.

12 THE MODERATOR: If you don't have one of  
13 these brochures yet, on the back is the docket number.  
14 And if you go to the DMS system, if you type in the  
15 last five digits, it will take you right to the  
16 docket. And it will start with the oldest submission.  
17 And there is a little button that you can hit that says  
18 reverse order so you see the newest submission first.

19 MR. BROWDER: There are 21 items on the  
20 docket as of yesterday on 23281 that most of them  
21 concern. There are two of the transcripts that are  
22 already up there that she is talking about.

23 MR. BURNETT: Thank you.

24 MR. BROWDER: Don't put the year in when you  
25 search.



1                   THE MODERATOR: Okay. I have a question. I  
2 have attended all four of the last public hearings.  
3 And I have heard the panel's opinions this afternoon on  
4 the safety of private crossings. And in order to find  
5 a solution, we need to try and push the envelope to  
6 determine what options do we have to move forward.

7                   And I would like to ask the panel their  
8 opinions on if there were regulations or some guidance  
9 or standards that were developed for design  
10 characteristics, should that effort come from the  
11 states that administer and possibly have legislation  
12 over private crossings or should it come from a  
13 DOT-wide task force that includes not only the FRA, the  
14 FHWA, but stakeholders like the mortar carriers, the  
15 Transit Administration, or should it be left to the  
16 locals to determine through their Diagnostic Teams the  
17 appropriate approaches?

18                   MR. WORLEY: What I will say is the first  
19 thing you need is money. There needs to be some more  
20 pilot projects, I think, around the country to get some  
21 experience with different approaches for private  
22 crossings, be it public or private partnerships for  
23 closures, for how to go about equipping with warning  
24 devices or other treatments. So that would be the  
25 first positive step -- to get some experience. I think

1 ultimately you have got to look at a diagnostic team  
2 process that's headed up by the authority that has the  
3 experience in the states we are involved in. And that  
4 would be the state DOT's right now. And that's my  
5 opinion. And it is quite biased because, you know, you  
6 look at it and see you have a good idea of how to  
7 resolve things based on experience and what has to be  
8 accomplished. So I would say that would be the start  
9 because I would hate to see us get into something where  
10 you constantly try to write a lot of policy and write a  
11 lot of specifications without a lot of real world  
12 experience out there to draw from.

13           And, also, by having private crossings and  
14 real world experience, you certainly build the support  
15 toward doing something. So I think we are clearly  
16 moving towards doing something. It is just difficult.  
17 I think it also depends on money, which there is not a  
18 lot.

19           MR. CAMPBELL: I think I might add to that,  
20 too. I will just say that I agree with Paul because  
21 the state agency is the one that really has the clear  
22 picture of crossing safety issues within their  
23 jurisdictions. And that's exactly why that's included  
24 as a part of my proposal that the Diagnostic Team  
25 ultimately has say-so in terms of the crossing and what

1 might be done there.

2           Also, of course, as many as you know, there  
3 are some pretty interesting issues in Section 409 that  
4 provides some protection for the Diagnostic Team in  
5 terms of isolating their decisions. And there is  
6 certainly a large degree of logic that maintains that  
7 protection that exists. However, there are some things  
8 that the Diagnostic Team could have some latitude in  
9 where, for example, it might be possible to take a  
10 number of private crossings. In other words, a private  
11 driveway that starts at a single-family home and to  
12 consolidate those crossings. In other words, take  
13 those five or six driveways and build a connecting  
14 roadway and then a single crossing to serve that. And  
15 then in that case convert those multiple private  
16 crossings into a single semi-public crossing. And that  
17 may very well be, in that case, a good use of public  
18 funding. And it may also be as part of that process  
19 that some part of those costs are allocated or assessed  
20 to the landowners.

21           And, again, that would be within the  
22 Diagnostic Team's jurisdiction to decide if public  
23 funds are to be used and, if so, what percentage and if  
24 the landowner should share in the burden of improvement  
25 costs as well. So, again, that's why I support that

1 the local Diagnostic Team really can deal with all of  
2 the individual issues and address them on site and then  
3 ultimately handle the deal through the DOT if there is  
4 one.

5 MS. XU: Well, I agree with what Paul and  
6 Rick just said. Basically, you know, states should  
7 have something they demand from, you know, the state  
8 level. But I would like to say that at the point that  
9 federal funding is involved, then we do need some  
10 federal-level guidelines in the general terms. There's  
11 all kind of federal guidelines. You know, they are all  
12 in general. And the state has a lot -- the states have  
13 a lot of power to define details. And so, you know, we  
14 would like to have some kind of guidelines in terms of  
15 how to initiate the process.

16 MS. KLOEPPPEL: I just wanted to agree  
17 effectively with what Guan Xu gave. What I have heard  
18 in various meetings suggests that if there is a federal  
19 involvement, it should be something to do with  
20 establishing a process. Now, I won't say that it is  
21 the specific direction the FRA will go, but it is  
22 consistent with what we have been hearing from a number  
23 of meetings that participants in the meetings have a  
24 sense that there is no process and there is even no way  
25 to begin attacking the problem. So one reasonable

1 federal way to be involved is to help with the  
2 development of that process and leave in the hands of  
3 the people who know best what they are doing the  
4 factual decision-making about individual funds, state,  
5 and local Diagnostic Teams.

6 MR. BROWDER: I hope you don't mind me saying  
7 this, but it really scares me because I think it shows  
8 a lack of understanding and naivete concerning the  
9 issues, especially after we have been to the public  
10 hearings about the seriousness of the issue itself. I  
11 would grant, the last thing the railroads want is  
12 probably regulation. But it's one more step down the  
13 line. It's something that opens up regulation to more  
14 entities out there, such as states, municipalities, and  
15 people like that. The current system for public  
16 crossings is a mess. We shot ourselves on the  
17 railroad -- shot ourselves in the foot when we agreed  
18 to the 130 plan.

19 Finally, I mentioned the amount of money it  
20 costs us in maintenance. That continues to go up every  
21 year. We are scared to death that that might continue  
22 within the private sector. And when I hear you talking  
23 about opening up some kind of a process to state and  
24 local governments to interface with private companies  
25 that don't have large staffs to entertain regulation, I

1 have concern.

2           Now, having said that, let me say I think  
3 there are some constructive steps that can be done.  
4 And I don't disagree about what Miriam and Guan said  
5 about things that can proactively address Paul's  
6 comments about pilot projects. I can tell you one  
7 thing that I think the railroads agree on and may be  
8 interested in having whatever the Federal Government  
9 entity is that's responsible for. It is to allow us to  
10 get agreements on all private crossings. We can't even  
11 do that now.

12           And one thing that would help with the  
13 administration of private crossings would be that,  
14 although we are not the experts on highway traffic  
15 control devices, certainly if there was an agreement  
16 that was required of the individual stakeholders,  
17 namely, the railroad and the highway user, that that  
18 would be, like a couple thousand lawyers tied to the  
19 bottom of the ocean, a good start. Thank you.

20           THE MODERATOR: Thank you, Bill.

21           MR. NELSON: I think the important thing for  
22 me is that we don't make problems that don't exist.  
23 And we have problems with private crossings. But very  
24 many private crossings are well run. The landowners  
25 exercise their responsibilities and they work the

1 railway. And I think that while you have got something  
2 that works, just leave it.

3           When you haven't got things that work, it is  
4 usually because, as a matter of public policy,  
5 developments have been allowed on one side of the  
6 railway without taking account of the impact on the  
7 railway.

8           If it is public policy for the development,  
9 it is allowed. And once you create that sort of  
10 development, you should avoid the issue of agreements.  
11 And it should be a new form of agreement to recognize  
12 the new circumstances. And the greater burden is on  
13 those who benefit from the development.

14           AUDIENCE ATTENDEE: My name is Ray Lewis,  
15 L-e-w-i-s. I am with the Division of Highways in West  
16 Virginia. We are one of about six or seven states, I  
17 think, that has more private crossings than public  
18 crossings. And that's not a distinction we would have  
19 sought. You said something there that really struck a  
20 cord with me as far as managing the crossings.

21           First of all, in my opinion, out of out 1900  
22 private crossings, probably 1750 of them will never  
23 cause of us any trouble except at random because they  
24 tend to be farm field crossings. They tend to be  
25 individual residential crossings. They go to one or

1 two dwellings. There is not any room for expansion,  
2 say, between the railroad and the river. And you just  
3 have to make sure that the responsibility to carry out  
4 the farm doesn't do something too close to the tracks  
5 or the railroad and at least keep the roads passable  
6 for whatever usage. And that may have been a crossing  
7 for agricultural use or you may need to add an asphalt  
8 surface for the residents going in and out several  
9 times a day.

10           The second thing is that access across the  
11 tracks. When we have a highway system we can't  
12 control, we can't keep people from coming onto our  
13 highway system. Anybody has a right to come on our  
14 highway system, but we can set the condition under  
15 which they do so. And we require driveway permits.  
16 And we have a fairly extensive manual for driveway  
17 permits. If that driveway is a new driveway crossing  
18 the tracks or it's a change in use of the land to cross  
19 the tracks as an existing driveway, then our rules and  
20 regulations require the landowner to get a new permit  
21 to reflect what's actually going to happen there. And  
22 if there is a railroad involved, we do ask for an  
23 agreement. Even if the crossing is in there by deed,  
24 we feel like we have the right to ask for an  
25 agreement.



1                   One of the big problems with private  
2 crossings is the records are very difficult to locate.  
3 The problem really started to get out of hand on  
4 July 4, 1828, when Charles Carroll was the cornerstone  
5 of -- but there are different records on different  
6 crossings and everything is kept different ways by  
7 different railroads. Some are kept by evaluation  
8 statements. And you can find a list of all the  
9 agreements on the sheets on evaluation sheets. Some of  
10 them are kept in separate files in different offices.  
11 So it makes it a real interesting search to find out  
12 exactly how a crossing got there. I think from what I  
13 have seen, one of the bigger problems with private  
14 crossings is a sudden change in use of the land.

15                   I had an experience one time when somebody  
16 from the Brotherhood of Locomotives Union called and  
17 said they were real upset about a private crossing.  
18 And I knew where the crossing was. I said, Well, what  
19 is the problem? I said, You know, one farmer goes in  
20 and out of there. He says, No, no, our guy is on a  
21 lumber truck. And I go, What lumber truck? Well, one  
22 was carrying lumber up there to that property that had  
23 been subsidized and was getting 120 houses built on  
24 it. So that translates to about a thousand vehicles a  
25 day crossing the tracks at that point. So possibly

1 that will start some discussion. Thank you.

2 AUDIENCE ATTENDEE: I am John Henikchen, and  
3 my comments are for the panel. I would like to hear  
4 what you have in response to what I have to ask less  
5 Bill of course. Should regulations and standards or  
6 guidance be developed, how will those regulations and  
7 guidance standards be interfaced with the existing  
8 agreements -- private agreements that we have between  
9 the railroad and the landowner? In other words, will  
10 your regulations supercede that private agreement?

11 MS. KLOEPPEL: I hate to disappoint you, but  
12 I have to say that I think that's one of those things  
13 that is yet to be determined. If we were to develop  
14 regulations, that is one of the factors that we would  
15 have to consider. But we would certainly have to be  
16 sensitive to that as an issue.

17 MS. XU: I don't have any comment. I think  
18 before I say anything, I will have to ask our lawyers.

19 AUDIENCE ATTENDEE: If we are going to leave  
20 it up to the lawyers, then I guess we don't have to  
21 worry about this issue. So that will be another 10  
22 years and I will be retired.

23 MR. NELSON: Last Friday before I -- sorry,  
24 Thursday before I came over here, I signed the RSVP  
25 response to a consultation from our regulator about

1 what should be in their standards, their principal  
2 documents for level crossings in the ground. The view  
3 of RSVP is that there should be a statutory defined  
4 user interface for public highway crossings, public  
5 pedestrian crossings, and private level crossings. And  
6 beyond that user interface, everything else should be  
7 dealt with within the standards of the railroad  
8 concerned.

9 MR. WORLEY: One other thing to consider is  
10 if you have got some of those agreements out there and  
11 some of the crossings are based in deeds. And if  
12 someone has a right to that crossing in the deed, you  
13 get into a situation where you can't take their  
14 property. You can't take it. So you then have to  
15 negotiate. So it comes back down to -- I get back into  
16 having that pilot program and getting the experience.  
17 You learn what are the different scenarios when you can  
18 negotiate to try to close and try to eliminate the  
19 crossings. It is kind of like the old politician back  
20 in North Carolina that once told me. He said, You have  
21 got to have something in the sack. You have got to  
22 talk to these folks. You have got to have something in  
23 the sack. You have got to try to negotiate with them.  
24 And I think that's what you are going to have to do.

25 THE MODERATOR: I would like to get back to

1 Ray Lewis. Ray Lewis represents a state  
2 representative. And as shown in the latest FRA  
3 compilation of state laws, there are only 32 -- 22  
4 states that currently have statutes dealing with  
5 private crossings. Now, what we heard from Rick and  
6 from Paul, with Bill's agreement, is that it should be  
7 at a local level. How can the Federal Government now  
8 step in to help you that have statutes and those that  
9 don't actually be able to manage the safety of private  
10 crossings?

11 AUDIENCE ATTENDEE: (Ray Lewis) Well, I  
12 think that the point that Paul made is very pertinent  
13 in that if you start intruding into this relationship  
14 between property owner or the licensee on the  
15 crossing -- it is usually the same person but not  
16 always -- I think you get yourself possibly in the  
17 position where you could have takings. I don't want to  
18 have 1900 takings. You know, I don't want to retire  
19 and been responsible for having to go out and have 1900  
20 railroad transactions or more if the railroad happened  
21 to run down the property line and you have got two  
22 people with underlying interests in something like  
23 that.

24 It goes back to my comments that most of  
25 those crossings are never going to cause us any

1 trouble. I think that the ones that are going to cause  
2 us the most potential to cause trouble are the ones  
3 that were in the deed but the family has, granted the  
4 property has been subsidized, a trailer park has been  
5 put in or something. And I think that at that point,  
6 there may need to be some mechanism in state law or  
7 maybe federal regulations -- I am not sure of the  
8 appropriate form -- that would permit that deed to be  
9 rolled over into an agreement into a standard private  
10 crossing agreement.

11           When something like this happens, usually  
12 there is money being made. And the developer very  
13 frequently has the opportunity, as he did with the one  
14 with the 120 houses and lumber trucks, to get out from  
15 under his obligation to provide good and safe access to  
16 his tenants or the people to whom he sells the property  
17 or whatever.

18           Unfortunately, at least in West Virginia we  
19 have all of this new case law on change in use. And  
20 what we do is come out of circuit courts. And it  
21 hasn't been reported, but I think that might be the  
22 most fruitful area to look at to try to identify those  
23 crossings that are going to pop up and cause you  
24 problems.

25           THE MODERATOR: Thank you.

1                   MR. CAMPBELL: I might add that I agree with  
2 what Ray says wholeheartedly. And also to follow-up  
3 with John, by and large, I think the majority of the  
4 private crossings are not going to be an issue. And we  
5 don't need to go into this potential rule-making  
6 process and change what goes on at those locations.  
7 The ones that are in issue are the ones that do have  
8 this free and unrestricted public access and may  
9 require some additional treatment. So I think right  
10 there we narrow this down to a smaller group of  
11 crossings. Potentially I would see that the existing  
12 private crossings be retained. However, one thing that  
13 we might look at as a benefit to some regulation would  
14 be that if the usage for the ADDT on the crossing  
15 changes by some percentage or fixed amount that it  
16 would prompt a review into the use of the crossing  
17 because that's one of our big concerns is if a private  
18 landowner sells some or all of the large tract of  
19 property, all of a sudden it would become a multifamily  
20 access way or potentially a sporting-type facility or  
21 other facility where the public all of a sudden gets  
22 this expectation of free access.

23                   So the rule-making process, as I see it,  
24 really would have minimum impact on a large number of  
25 crossings. But the ones where there are changes or

1 where we do find public access are the ones that need  
2 to be addressed. And that's where it would be  
3 beneficial.

4 MR. WORLEY: As Ray was talking, one thing I  
5 wrote down was plans and outreach. And I propose a  
6 book called the Land Use Planner's Guide to Railroads  
7 because I think one thing you have got to try to do if  
8 the Feds can do something from a level or the states,  
9 as we look at land-use planning and smart growth as we  
10 talk about that, is to get information out to land-use  
11 planners on county levels and municipal levels what is  
12 the railroad about. You know, it is not a dying  
13 artery. It is growing. It has got more traffic, but  
14 you have got to consider the railroad and the facts  
15 about railroads when you are looking at land-use  
16 planning.

17 We went through the steps for working groups  
18 on public crossings. Maybe there needs to be some kind  
19 of, you know, information in that Land Use Planner's  
20 Guide to Railroads, Copyright 2007, Part One, that  
21 states all of that information where they can refer to  
22 and know that when they approve a subdivision rezoning  
23 perhaps they need to require them to get alternative  
24 access to private crossings. I think that's the way  
25 you continually try to work through these things

1 because the problems aren't created overnight. And  
2 they won't be resolved. And we will all be crazy and  
3 muttering before they are ever resolved. But that book  
4 is on sale very soon.

5 THE MODERATOR: Anyway, our time is near  
6 closing. I would like the panel members to -- if  
7 anybody has one last comment on the topic. Otherwise,  
8 I would like to give them all one last round of  
9 applause.

10 Once again, I thank you all for attending.  
11 And if you are interested in this topic and any of the  
12 other TRB Committee topics, we will be discussing them  
13 all tomorrow at the eight o'clock in the morning till  
14 noon in Lincoln II. And I also extend an invitation to  
15 you if you still have an interest in safety at private  
16 crossings to join us in Syracuse, New York in  
17 February -- it should be lovely weather -- at the  
18 Doubletree Hotel in Syracuse, New York. Thank you very  
19 much. The session is closed.

20 (At 5:34 p.m., the session was concluded.)

21  
22  
23  
24  
25



Michelle Silva-Docket Clerk  
Federal Railroad Administration  
1120 Vermont Avenue NW  
Washington, DC 20590

February 10, 2007

I am writing this letter today to let the representatives of our community and those involved in railroad safety know that we are very concerned about the railroad crossings in Johnson County, Indiana. Unfortunately, it has taken the severe tragedy involving the death of Travis and Jake Findley, ages 9 and 12, to give this issue the attention that it deserves.

The lack of necessary safety warnings at one of our Johnson County railroad crossings was the cause of these deaths, and we are concerned that if the necessary changes are not taken that it could lead to further incidents.

We would like the railroad crossing at Stones Crossing Road to have first priority, since Center Grove Elem., Center Grove Middle School Central, Center Grove High School and the Center Grove School District Administration officers are all off of this road.

We, the citizens of Johnson County, Indiana want attention taken, plans made, funding available and projects completed to install the proper railroad safety crossing at all railroad crossings that currently only have stop signs. We want crossing arms, bells, signs, lights, and all necessary safety warnings described in the Federal Railroad-Highway Grade Crossing Handbook.

Sincerely,



Printed name



Signature

2491 Waldon Drive  
Greenwood, IN 46143

A concerned, motivated, and caring voting citizen of Johnson County, Indiana

To the Honorable ..... *Michelle Silva, Docket Clerk*

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Sincerely,

*Myrna Lorenz*

Printed name

*M. Lorenz*

Signature

*4671 Running Brook Drive  
Greenwood, In  
46143*

Add your return address

A concerned, motivated, and caring voting citizen of Johnson County, Indiana

Michelle Silva - Docket Clerk  
Federal RailRoad Administration,  
1120 Vermont Avenue, N.W.  
Washington, DC 20590

February 10, 2007

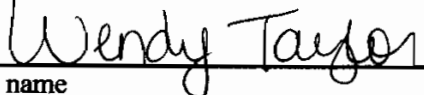
I am writing this letter today to let the representatives of our community and those involved in railroad safety know that we are very concerned about the railroad crossings in Johnson County, Indiana. Unfortunately, it has taken the severe tragedy involving the death of Travis and Jake Findley, ages 9 and 12, to give this issue the attention that it deserves.

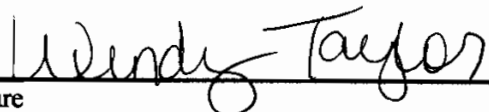
The lack of necessary safety warnings at one of our Johnson County railroad crossings was the cause of these deaths, and we are concerned that if the necessary changes are not taken that it could lead to further incidents.

We would like the railroad crossing at Stones Crossing Road to have first priority, since Center Grove Elem., Center Grove Middle School Central, Center Grove High School and the Center Grove School District Administration officers are all off of this road.

We, the citizens of Johnson County, Indiana want attention taken, plans made, funding available and projects completed to install the proper railroad safety crossing at all railroad crossings that currently only have stop signs. We want crossing arms, bells, signs, lights, and all necessary safety warnings described in the Federal Railroad-Highway Grade Crossing Handbook.

Sincerely,

  
\_\_\_\_\_  
Printed name

  
\_\_\_\_\_  
Signature

*Wendy Taylor*  
4050 Santa Clara Drive  
Greenwood, IN. 46142

A concerned, motivated, and caring voting citizen of Johnson County, Indiana

Alaska is a young, large, largely empty state with emerging infrastructure. There is enough room for approximately 26 other states with their railroads etc. However, we have one railroad to serve the needs of this large, empty state. The Bureau of Land Management in the 1980's issued deeds to applicants in the past that placed residential property in some cases immediately adjoining the railroad right of way. Earlier in Alaska a frontier cooperative spirit existed among all the federal and state agencies. These residential placements alongside railroad tracks were not considered problematic by the AK Railroad. One half the population of Alaska lives in Anchorage. There is a strong desire along the perimeter of Anchorage to branch out for recreational purposes. Private land owners along the perimeter of Anchorage have emerging land title plant needs for access to dwellings. There is a race of recreational coalitions and partnerships who have partnered with the AK Railroad to foreclose the residential use by private land owners. Private land use is seen as the antithesis of recreational efforts. Private land owners still need the private crossings as the only available access possible at all to meet minimum building standards - a driveway to a road from a habitable dwelling. The model of a public crossing for residential needs can cost \$250,000 just to bring in non-existing electricity; additionally \$350,000 construction costs for a public crossing standard, and \$75,000 maintenance annually for a familial dwelling. There is currently NO road existing tying to these properties which are "inholdings". A private crossing is still needed. FRA should encourage the Alaska Railroad to recognize the needs of these "inholders", catalogue their locations, and urge the issuance of private crossings because terrain in Alaska the northernmost state and largest state as an improvement within this municipal city limit. FRA could suggest reasonable stipulations for such private crossings in a rural area in recognition that only approximately one percent of the huge empty state of Alaska is in private ownership. We still have a lot of growing to do and ANILCA crossings must be granted to allow residential development and safety. The FRA best practices should recognize the early primitive stage of development in many parts of Alaska and should encourage and support AK Railroad to continue to deal kindly and supportively with the emerging private property needs...i.e. allow private crossings where environmentally required and suggest engineering and signage which private individuals can afford with strong crossing agreements which are individualized to private owners. AK railroad has contractors with whom it does business and it should allow private individuals to have work done by these trusted contractors to adequate private crossing standards. A private crossing where a road does not exist in the middle of a swamp costing \$1 million dollars is not a reasonable and only solution. FRA should realize the early development stages of within Alaska and FRA should suggest to Alaska Railroad to be reasonable because these sites are finite and issuing private crossings at grade is an improvement from the horse trail era from which these properties are emerging. It may be premature and cavalier to discontinue private crossings in Alaska at this time. The ARR should be discouraged from forming "partnerships" with agencies such as the USFS which has published desires to "maintain rustic" standards and recreational facilities built to recreational rustic consistency in this seismic area (1964 earthquake) when private residences are prohibited by egress denials of private crossings (the only access at all) to develop to the minimum safety standards adopted by the State of Alaska by refusal of ARR to all private at grade crossings. This is unreasonable. We are reasoning and reasonable people. Thank you for taking and considering this comment.

committee consensus on a draft for Final Review and Comment (FRAC). The committee will also consider plans for coordination and implementation of its recommendation on T-PED spurious emissions. Working group sessions are on Tuesday and Thursday afternoon. Plenary Sessions are Wednesday and Thursday.

**SUPPLEMENTARY INFORMATION:** Pursuant to section 10(a)(2) of the Federal Advisory Committee Act (Pub. L. 92-463, 5 U.S.C., Appendix 2), notice is hereby given for a Special Committee 202 Portable Electronic Devices meeting. The agenda will include:

- April 17:
- Chairmen's Strategy Session—MacIntosh-NBAA & Hilton-ATA Rooms
- Progress and Status Update, Overall Review of Plan and Schedule for Document Completion, recommendations coordination and implementation
- Working Group 5 Kickoff and Coordination—MacIntosh-NBAA & Hilton-ATA Rooms
- Working Groups Sessions
- Working Group 5 Overall DO-YYY Document—MacIntosh-NBAA & Hilton-ATA Rooms
- Working Group 6: PED Spurious Emissions Recommendations—ARINC Conference Room
- Sub Group on PED Statistical Analysis and Characterization—Small Conference Room
- Sub Group on IPL Test—Colson Board Room
- Sub Group on Certification Aspects—Garmin Room
- Chairmen's Strategy Session
- Coordinate Recommendations to Plenary: Plan and Schedule for Remaining Committee Work.
- April 18 and 19:
- Opening Plenary Session (Welcome and Introductory Remarks, Review Agenda, Review/Approve previous Summary)
- Results of RTCA PMC Meeting March 22, 2007 on revisions to SC-202 TOR
- Update from Regulatory Agencies (FAA, UK-CAA, Canadian TSB, FCC, or others present)
- Update on EUROCAE Working Group WG58 Status
- Update on CEA activities, including the CEA Bulletin-Recommended Practice for T-PEDs
- Overview of Work on DO-YYY "Aircraft Design and Certification for Portable Electronic Device (PED) Tolerance"
- Update on Aircraft IPL Test Methods by WG5 Sub Group
- Update on Target IPL Values for aircraft design by WG5 IPL Sub Group

- Summary of PED Emissions Statistical Characterization by WG5-T-PED Characterization Sub Group
- Summary of Certification Aspects WG5 Certification Sub Group
- Working Group 5: Airplane Design and Certification Guidance
- Plan to complete remaining work, schedule and process for completion of open issues, recommendation to publish FRAC draft, identify any risks to completing final document at the July Plenary and proposed action to mitigate that risk
- Working Group 6: PED Spurious Emissions Recommendations Coordination
- Implementation Assessment (joint working group with CEA)
- Schedule and plan for dialog with CE manufactures
- Committee Discussion on Final Phase 2 Work Plan and Schedule for DO-YYY Document
- Committee Discussion on Final Phase 2 Work Plan and Schedule for DO-YYY Document
- Break-out Session for WG's Required
- WG5 Overall Document and Process—MacIntosh—NBAA & Hilton-ATA-Rooms
- WG6 PED Spurious Emissions Recommendation—ARINC Conference Room
- Sub Group on PED Statistical Analysis and Characterization—Small Conference Room
- Sub Groups on IPL Test—Colson Board Room
- Sub Group on Certification Aspect—Garmin Room
- April 19
- Chairman's Day 2 Opening Remarks and Process Check
- Final Overall Working Group Report
- Identification and Plan for Closure of Open Issues
- Remaining work plan and Schedule for Completion of DO-YYY
- Recommendation on publication of FRAC draft
- Working Group 5 Airplane Design and Certification Guidance recommendation for FRAC
- Working Group 6 PED Spurious Emissions Recommendations (reporting on plan for completion of recommendations coordination and implementation)
- Plenary Consensus on Plans to:
- DO-YYY Recommended Guidance for Airplane Design and Certification ready for FRAC
- WG6 plan to coordinate and implement PED Spurious Emissions Recommendations
- Closing Session (Other Business, Date and Place of Upcoming Meetings

(Nineteenth Plenary at RTCA, July 23-27, 2007.)

- Complete Disposition of FRAC comments on draft Airplane Design & Guidance Recommendation draft
- Committee consensus to recommend publication of DO-YYY
- CEA/SC-202 Consenses Recommendation for implementation of SC-202 recommendation
- Plenary Session Tuesday & Thursday, WG Monday, Wednesday, Friday
- Adjourn to Break-out sessions for Working Groups if required and time permits

Attendance is open to the interested public but limited to space availability. With the approval of the chairmen, members of the public may present oral statements at the meeting. Persons wishing to present statements or obtain information should contact the person listed in the **FOR FURTHER INFORMATION CONTACT** section. Members of the public may present a written statement to the committee at any time.

Issued in Washington, DC, on March 13, 2007.

**Francisco Estrada C.,**  
*RTCA Advisory Committee.*

[FR Doc. 07-1343 Filed 3-20-07; 8:45 am]

**BILLING CODE 4910-13-M**

## DEPARTMENT OF TRANSPORTATION

### Federal Railroad Administration

[Docket No. FRA-2005-23281, Notice No. 4]

### Safety of Private Highway-Rail Grade Crossings; Notice of Safety Inquiry

**AGENCY:** Federal Railroad Administration (FRA), Department of Transportation (DOT).

**ACTION:** Notice of safety inquiry.

**SUMMARY:** On July 27, 2006, FRA published a notice announcing its intent to conduct a series of open meetings throughout the United States, in cooperation with appropriate State agencies, to consider issues related to the safety of private highway-rail grade crossings. To date, FRA has conducted four meetings and on January 5, 2007, FRA published a notice announcing the scheduling of an additional meeting to be held February 15, 2007, in Syracuse, New York. Due to inclement weather, it was necessary to reschedule the February 15 meeting for April 26, 2007.

At the meeting, FRA intends to solicit oral statements from private crossing owners, railroads and other interested parties on issues related to the safety of private highway-rail grade crossings,

which will include, but not be limited to, current practices concerning responsibility for safety at private grade crossings, the adequacy of warning devices at private crossings, and the relative merits of a more uniform approach to improving safety at private crossings. FRA has also opened a public docket on these issues so that interested parties may submit written comments for public review and consideration.

**DATES:** The fifth public meeting will be held in Syracuse, New York on April 26, 2007, at the Renaissance Syracuse Hotel, 701 East Genesee Street, Syracuse, New York 13210, beginning at 9:30 a.m.

Persons wishing to participate are requested to provide their names, organizational affiliation and contact information to Michelle Silva, FRA Docket Clerk, 1120 Vermont Avenue, NW., Washington, DC 20590 (telephone: 202-493-6030). Persons needing sign language interpretation or other reasonable accommodation for disability are also encouraged to contact Ms. Silva at the above-referenced telephone number.

**FOR FURTHER INFORMATION CONTACT:** Ron Ries, FRA Office of Safety, 1120 Vermont Avenue, NW., Washington, DC 20590 (telephone: 202-493-6299); Miriam Kloeppe, FRA Office of Safety, 1120 Vermont Avenue, NW., Washington, DC 20590 (telephone: 202-493-6299); or Kathryn Shelton, FRA Office of Chief Counsel, 1120 Vermont Avenue, NW., Washington, DC 20590 (telephone: 202-493-6038).

**SUPPLEMENTARY INFORMATION:** For additional information, please see the initial notice published July 27, 2006 in the *Federal Register* (71 FR 42713) and available at <http://a257.g.akamaitech.net/7/257/2422/01jan20061800/edocket.access.gpo.gov/2006/pdf/06-6501.pdf>.

#### Request for Comments

While FRA solicits discussion and comments on all areas of safety at private highway-rail grade crossings, we particularly encourage comments on the following topics:

- At-grade highway-rail crossings present inherent risks to users, including the railroad and its employees and other persons in the vicinity, should a train derail into an occupied area or release hazardous materials. When passenger trains are involved, the risks are heightened. From the standpoint of public policy, how do we determine whether the creation or continuation of a private crossing is justified?

- Is the current assignment of responsibility for safety at private

crossings effective? To what extent do risk management practices associated with insurance arrangements result in "regulation" of safety at private crossings?

- How should improvement and/or maintenance costs associated with private crossings be allocated?
- Is there a need for alternative dispute resolution mechanisms to handle disputes that may arise between private crossing owners and the railroads?

- Should the State or Federal government assume greater responsibility for safety at private crossings?
- Should there be nationwide standards for warning devices at private crossings or for intersection designs of new private grade crossings?

- How do we determine when a private crossing has a "public purpose" and is subject to public use?

- Should some crossings be categorized as "commercial crossings" rather than as "private crossings"?
- Are there innovative traffic control treatments that could improve safety at private crossings on major rail corridors, including those on which passenger service is provided?

- Should the Department of Transportation request the enactment of legislation to address private crossings? If so, what should it include?

Issued in Washington, DC, on March 15, 2007.

**Jo Strang,**

*Associate Administrator for Safety.*

[FR Doc. E7-5143 Filed 3-20-07; 8:45 am]

**BILLING CODE 4910-06-P**

## DEPARTMENT OF TRANSPORTATION

### National Highway Traffic Safety Administration

[DOT Docket No. NHTSA-06-26554]

#### Reports, Forms, and Recordkeeping Requirements

**AGENCY:** National Highway Traffic Safety Administration (NHTSA), Department of Transportation (DOT).

**ACTION:** Request for public comment on proposed collection of information.

**SUMMARY:** This notice solicits public comment on continuation of the requirements for the collection of information on safety standards. Before a Federal agency can collect certain information from the public, it must receive approval from the Office of Management and Budget (OMB). Under procedures established by the Paperwork Reduction Act of 1995,

before seeking approval, Federal agencies must solicit public comment on proposed collections of information, including extensions and reinstatement of previously approved collections.

This document describes a collection of information associated with 49 CFR Part 574, Tire Identification and Recordkeeping.

**DATES:** Comments must be received on or before April 20, 2007.

**ADDRESSES:** Comments must refer to the docket notice number cited at the beginning of this notice and be submitted to the Office of Information and Regulatory Affairs, Office of Management and Budget, Att'n: Desk Officer for NHTSA, 725 17th Street, NW., Washington, DC 20503. Please identify the proposed collection of information for which a comment is provided, by referencing its OMB clearance number. It is requested, but not required, that 2 copies of the comment be provided.

**FOR FURTHER INFORMATION CONTACT:** Complete copies of each request for collection may be obtained from Mr. George Soodoo, NVS-122, National Highway Traffic Safety Administration, 400 Seventh St., SW., Washington, DC 20590. Mr. Soodoo's telephone number is (202) 366-5274.

**SUPPLEMENTARY INFORMATION:** Under the Paperwork Reduction Act of 1995, before a proposed collection of information is submitted to OMB for approval, Federal agencies must first publish a document in the *Federal Register* providing a 60-day comment period and otherwise consult with members of the public and affected agencies concerning each proposed collection of information. The OMB has promulgated regulations describing what must be included in such a document. Under OMB's regulation (at 5 CFR 1320.8(d)), an agency must ask for public comment on the following:

(i) Whether the proposed collection of information is necessary for the proper performance of the functions of the agency, including whether the information will have practical utility;

(ii) The accuracy of the agency's estimate of the burden of the proposed collection of information, including the validity of the methodology and assumptions used;

(iii) How to enhance the quality, utility, and clarity of the information to be collected; and

(iv) How to minimize the burden of the collection of information on those who are to respond, including the use of appropriate automated, electronic, mechanical, or other technological collection techniques or other forms of

Correction --- To date the FRA has had NO safety meetings. A safety meeting would consist of more than brainwashed railroad clowns getting together for a "HO"DOWN.

A. The crossing is safe or B. YOU MURDERED THEM!!!

**DEPARTMENT OF TRANSPORTATION****Federal Railroad Administration**

[Docket No. FRA-2005-23281, Notice No. 5]

**Safety of Private Highway-Rail Grade Crossings; Notice of Safety Inquiry**

**AGENCY:** Federal Railroad Administration (FRA), Department of Transportation (DOT).

**ACTION:** Notice of open meeting date change.

**SUMMARY:** On July 27, 2006, FRA published a notice announcing its intent to conduct a series of open meetings throughout the United States, in cooperation with appropriate State agencies, to consider issues related to the safety of private highway-rail grade crossings. FRA has conducted four meetings to date and on March 17, 2007, FRA published a notice announcing the scheduling of an additional meeting to be held April 26, 2007, in Syracuse, New York. Due to recently developed scheduling conflicts, however, it is necessary to postpone this April 26 meeting. This Notice No. 5 is an announcement that the Syracuse, New York, meeting has been rescheduled for July 26, 2007. FRA regrets any inconvenience this date change may have caused.

At the meeting, FRA intends to solicit oral statements from private crossing owners, railroads, and other interested parties on issues related to the safety of private highway-rail grade crossings, which will include, but not be limited to, current practices concerning the responsibility for safety at private grade crossings, the adequacy of warning devices at private crossings, and the relative merits of a more uniform approach to improving safety at private crossings. FRA has also opened a public docket on these issues so that interested parties may submit written comments for public review and consideration.

**DATES:** The fifth public meeting will be held in Syracuse, New York on July 26, 2007, at the Renaissance Syracuse Hotel, 701 East Genesee Street, Syracuse, New York 13210, beginning at 9:30 a.m.

Persons wishing to participate are requested to provide their names, organizational affiliation, and contact information to Michelle Silva, FRA Docket Clerk, 1120 Vermont Avenue NW., Washington, DC 20590 (telephone: 202-493-6030). Persons needing sign language interpretation or other reasonable accommodation for disability are also encouraged to contact Ms. Silva using the aforementioned information.

**FOR FURTHER INFORMATION CONTACT:** Ron Ries, FRA Office of Safety, 1120 Vermont Avenue NW., Washington, DC 20590 (telephone: 202-493-6299); Miriam Klooppel, FRA Office of Safety, 1120 Vermont Avenue NW., Washington, DC 20590 (telephone: 202-493-6299); or Kathryn Shelton, FRA Office of Chief Counsel, 1120 Vermont Avenue NW., Washington, DC 20590 (telephone: 202-493-6038).

**SUPPLEMENTARY INFORMATION:** For additional information, please see the initial notice published July 27, 2006, in the **Federal Register** (71 FR 42713) and available at <http://a257.g.akamaitech.net/7/257/2422/01jan20061800/edocket.access.gpo.gov/2006/pdf/06-6501.pdf>

**Request for Comments**

While FRA solicits discussion and comments on all areas of safety at private highway-rail grade crossings, we particularly encourage comments on the following topics:

- At-grade highway-rail crossings present inherent risks to users, including the railroad and its employees, and to other persons in the vicinity should a train derail into an occupied area or release hazardous materials. When passenger trains are involved, the risks are heightened. From the standpoint of public policy, how do we determine whether the creation or continuation of a private crossing is justified?
  - Is the current assignment of responsibility for safety at private crossings effective? To what extent do risk management practices associated with insurance arrangements result in the "regulation" of safety at private crossings?
    - How should improvement and/or maintenance costs associated with private crossings be allocated?
    - Is there a need for alternative dispute resolution mechanisms to handle disputes that may arise between private crossing owners and the railroads?
      - Should the State or Federal Government assume greater responsibility for safety at private crossings?
      - Should there be nationwide standards for warning devices at private crossings, or for intersection design of new private grade crossings?
      - How do we determine when a private crossing has a "public purpose" and is subject to public use?
        - Should some crossings be categorized as "commercial crossings," rather than as "private crossings?"
        - Are there innovative traffic control treatments that could improve safety at

private crossings on major rail corridors, including those on which passenger service is provided?

- Should DOT request enactment of legislation to address private crossings? If so, what should it include?

Issued in Washington, DC, on April 9, 2007.

**Jo Strang,**

*Associate Administrator for Safety.*

[FR Doc. E7-7064 Filed 4-12-07; 8:45 am]

**BILLING CODE 4910-06-P**

**DEPARTMENT OF TRANSPORTATION****Federal Railroad Administration****Notice of Application for Approval of Discontinuance or Modification of a Railroad Signal System or Relief From the Requirements of Title 49 Code of Federal Regulations Part 236**

Pursuant to Title 49 Code of Federal Regulations (CFR) part 235 and 49 U.S.C. 20502(a), the following railroad has petitioned the Federal Railroad Administration (FRA) seeking approval for the discontinuance or modification of the signal system or relief from the requirements of 49 CFR part 236 as detailed below.

[Docket Number FRA-2007-27287]

**Applicant:** BNSF Railway Company, Mr. Gregory C. Fox, Vice President Engineering, P.O. Box 961034, Fort Worth, Texas 76161-0034.

BNSF Railway Company (BNSF) seeks relief from the requirements of the Rules, Standards and Instructions, Title 49 CFR part 236, Section 236.377 Approach Locking, 236.378 Time locking, 236.379 Route Locking, 236.380 Indication Locking, and 236.381 Traffic Locking, on processor-based systems to the extent that only the following be required every four years after initial testing or program change:

- Verification of the CRC/Check Sum/UCN of the existing location specific application logic to the previously tested version.
- Tests on equipment outside the processor (switch indication, track indication, searchlight signal indication, approach locking (if external)) are verified to the processor's inputs and switch locking is tested from the processor's output to the switch machine.
- Testing of the duration of any timers with variable settings.

*Applicant's justification for relief:* Many of BNSF's interlockings and control points are controlled by solid-state processor-based systems. The 2-year signal locking tests for solid-state



Let's see. CSX was overcharging in 1993 and now the prices have doubled with more overcharges. Is the USDOT OIG a liar and a murdering co-thief with his railroad buds? GOD knows!!!

January 24, 2007

Report 300-4008

CSXT Billing Information Review

#### EXECUTIVE SUMMARY

The purpose of this Advisory is to report the results of our limited review of allegations made by a former CSX Transportation (CSXT) employee - Mr. David Nelson. The allegations relate to improper or illegal CSXT financial practices. Our review is based on review of invoices, industry knowledge, and discussions with the USDOT Inspector General's Office (USDOT OIG) staff. The ten allegations, which fall into 5 categories, are discussed below.

Due to the impact of these allegations on other states and the federal government, a federal inquiry may be more appropriate. We were unable to substantiate any of the allegations and discontinued our review when the USDOT OIG dropped their review of similar allegations. We will share some of these allegations with the next AASHTO multi-state invoice audit team so they can be considered during the team's next audit.

#### BACKGROUND

This is not the first time that Mr. Nelson has made allegations against CSXT. In 1994, the Department received a refund from CSXT based partially on Mr. Nelson's allegations. Our discussions with USDOT OIG disclosed that Mr. Nelson had made allegations to them similar to the ones below. The ten allegations made to us were:

- ? Overtime is being invoiced to the Department by the Savannah Georgia Signal Shop but the Savannah Georgia Signal Shop employees do not work overtime;
- ? Indirect costs and overhead costs are billed for the Signal Shop employees;
- ? Burco, a supplier of railroad materials, is obtaining materials at lower prices but the cost savings are not passed on to the State;
- ? There is a conflict of interest between Safetran and Burco;
- ? CSXT unnecessarily overcharges freight by sending materials back and forth between Savannah Georgia, West Virginia, and South Carolina;
- ? Sales Tax is, but should not be, billed to the States for materials;
- ? Materials are billed at the highest cost;
- ? CSXT refurbishes crossing materials from road crossing projects and sells the materials;
- ? Equipment used on Non-State projects is billed to State projects; and
- ? Crossings are not safe due to signaling issues.

According to USDOT OIG staff, they found no basis to the complaints that warranted additional work and since none of the allegations were substantiated, the decision was made not to proceed with the investigation. When the decision was made by the USDOT OIG not to pursue inquiry, the employee's Qui Tam attorney dropped the case as well.

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Florida Department of Transportation

Office of Inspector General

Report No. 300-4008 • Page 2

#### PURPOSE, SCOPE and METHODOLOGY

The purpose of this limited review was to evaluate allegations made by a former CSX Transportation (CSXT) employee - Mr. David Nelson.

The scope was limited to a review of the ten allegations.

In order to evaluate the allegations we used the following methodology:

- we reviewed CSXT invoices to determine if we could substantiate any of the allegations,

- we applied our industry knowledge to determine the reasonableness of the allegations, and
- we discussed the allegations with USDOT OIG staff.

FINDINGS

Category 1. Savannah, Georgia Signal Shop Overtime and Indirect Costs

Allegation: Overtime is being invoiced to the Department by the Savannah, Georgia Signal Shop but the Savannah, Georgia Signal Shop employees do not work overtime.

The following CSXT contract invoices were reviewed to evaluate the allegations of overtime being invoiced:

District

Contract No.

Amount

O/T Invoiced

2

AL460

\$43,818

No

2

AN585

\$111,450

No

7

AK008

\$46,363

No

7

AG713

\$358,755

No

7

AK903

\$93,411

No

We examined the payroll register of the Savannah Georgia Signal Shop. Of the approximately 57,000 hours worked, there were only 423 hours of employee overtime recorded. For the five invoices selected for review, there were not any instances where CSXT invoiced the Department for overtime. Based on our past experience, Signal Shop overtime is rarely billed.

Allegation: Indirect costs and overhead costs are billed for the Signal Shop employees.

The State of Florida allows the billing of overhead rate in addition to the indirect rates for the Savannah, Georgia Signal Shop. These are two separate cost pools and not duplicate costs.

Category 2. Burco

Allegation: Burco, a supplier of railroad materials, is obtaining materials at lower prices but the cost savings are not passed on to the State.

The USDOT OIG investigated this broad allegation and found no corroborating information. A provision in the CSXT/Burco contract allows Burco to purchase materials for CSXT projects from vendors at the CSXT purchase prices. In the event that Burco negotiates a lower price, the contract between CSXT and Burco provides for sharing of such savings (i.e., 50% Burco and 50% CSXT). We will share this allegation with the next AASHTO multi-state invoice audit team so that it can be considered during the team's next audit.

Florida Department of Transportation

Office of Inspector General

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Allegation: There is a conflict of interest between Safetran and Burco. Burco is a wholly owned subsidiary of Safetran and Safetran provides engineering services to CSXT. Safetran decides what materials are needed for a project then orders those materials from Burco.

The USDOT OIG investigated this issue and found no corroborating evidence supporting the allegation.

Allegation: CSXT unnecessarily charges freight by sending materials back and forth between Savannah Georgia, West Virginia and South Carolina.

Burco has locations in both West Virginia and South Carolina and the CSXT Signal Shop is located in Savannah, Georgia. The Savannah Georgia Signal Shop assembles signal houses but has subsequently sub-contracted some work to Burco. In Florida, freight billed by CSXT is supported by invoices from third party vendors who provide the transport. We did not review to see if these freight charges resulted in higher cost or analyze this business practice to determine if it is cost effective.

Category 3. Materials

Allegation: Sales Tax is, but should not be, billed to the States for materials. The railroads purchase most of the materials used on State projects from third party vendors who charge sales tax because they are selling to CSXT and not the government. Federal Acquisition Regulations require that we reimburse the costs incurred by the railroads.

Allegation: Materials are billed at the highest cost.

It is our understanding that CSXT uses average costing for materials pricing which is allowed by the Federal Acquisition Regulations. We will share this allegation with the next AASHTO multi-state invoice audit team so that it can be considered during their next audit.

Allegation: CSXT refurbishes crossing materials from road crossing projects and sells the materials.

Department agreements provide for salvage credits for recovered materials. These credits are required to be reported on billings. Mr. Nelson did not provide specifics on where this occurred and we did not review further.

Category 4. Equipment

Allegation: Equipment that is being used on Non-State projects is billed to State projects.

Mr. Nelson did not provide specifics on where this occurred and we did not review further.

Category 5. Safety Concern

Allegation: Crossings are not safe due to signaling issues.

The main issue concerns a safety feature of the fail safe signal circuit. Mr. Nelson alleges it is not fail safe. Since we do not possess the requisite expertise to evaluate these safety issues, we passed them along to the FDOT Rail Office for consideration. The Rail Office looked into this matter but was unable to confirm or refute the allegation. Recently a similar allegation has been made by Mr. Nelson and the Rail Office is responding.

Florida Department of Transportation

Office of Inspector General

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We appreciate the opportunity to provide this service. If you have questions or need additional information, please call Joseph K. Maleszewski at (850) 410-5506, or Carlos Mistry, (850) 410-5832.

ATTACHMENT A - DISTRIBUTION

Fred Wise, Rail Office Manager, FDOT Rail Office

Copies of this report were distributed to the following:

David Nelson

Marion Hart Jr., State Public Transportation and Modal Administrator

Gina Laney, FHWA Resource Center

Tammy Montanez, Railroad and Utility Audit Manager, North Carolina DOT

ATTACHMENT B - ENGAGEMENT TEAM

Engagement Team:

Tom Abney, CGAP, Senior Contract Auditor

Carlos Mistry, CIA, Audit Manager

Joe Maleszewski, CIA, CISA, CIG, Audit Director

...With a current inspector workforce of 385, FRA has limited capability to investigate approximately 3,000 grade crossing collisions that occur each year. Instead, it places heavy reliance on railroad self-reporting....

Geez, at the hillbilly high I went to that's less than 10 crossing collisions a year per inspector. Do we have total FEDERAL corruption here letting the killers self-investigate? YOU BET!!!

**Brotherhood of Maintenance of Way Employees Division  
of the  
International Brotherhood of Teamsters**

July 18, 2007

Michelle Silva, Docket Clerk  
Attn: Docket No. FRA-2005-23281, Notice No. 1  
U.S. Department of Transportation Dockets  
400 Seventh Street, S.W, Room PL-401  
Washington, DC 20590-0001

RE: Safety of Private highway-Rail Grade Crossings; Notice of Safety Inquiry;  
Docket No. 2005-23281, Notice No. 5

Dear Ms. Silva:

The Brotherhood of Maintenance of Way Employees Division (BMWED) submits the following written comments for consideration regarding the safety of private highway-rail grade crossings, referenced as Docket No. FRA-2005-23281, Notice No. 5. We appreciate the opportunity to participate with FRA in this safety effort.

The purpose of the public hearings to which we submit these comments is to examine (1) the current practices concerning responsibility for safety at private grade crossings; (2) the adequacy of warning devices at private grade crossings; and, (3) the relative merits of a more uniform approach to improving safety at private crossings.

FRA specifically requested comments on the following bullet points. BMWED's comment on each of these points will follow in the order presented:

- *At-grade highway-rail crossings present inherent risks to users, including the railroad and its employees, and to other persons in the vicinity should a train derail into an occupied area or release hazardous materials. When passenger trains are involved, the risks are heightened. From the standpoint of public policy, how do we determine whether creation or continuation of a private crossing is justified?*

BMWED believes that FRA should limit the creation of new private grade crossings to those absolutely necessary which meet strictly defined usage guidelines for private crossings

with private use. BMWED believes private crossings should be eliminated where alternative access is practicable. BMWED also believes private crossings must be limited to those used exclusively for farm-to-field crossings and residential driveways (fewer than 4 units). Use of such crossing for commerce, i.e., as access to a commercial business or other use not consistent with the farm and residential guidelines mentioned above, should trigger a designation as a public crossing. Each existing private crossing should be subject to a periodic risk assessment to determine whether they continue to meet established criteria for “private crossings” and if active warning devices are deemed necessary based upon train speed, line density, train types and consists, site distances, and vehicular crossing usage. All new private crossings should be required, at a minimum, to be protected by a grade crossing signal system flashing light signals.

- *Is the current assignment of responsibility for safety at private crossings effective? To what extent do risk management practices associated with insurance arrangements result in “regulation” of safety at private crossings?*

Clearly, the current assignment of responsibility for safety at private crossings is not as effective as it needs to be. This is reflected in the marginal improvement (10%) in the number of private grade crossing accidents over the past decade, the relatively unchanged rate of fatalities which have occurred between 1996 and 2005, and the slight increase in the number of injuries which occurred at private crossing over the past decade.

BMWED strongly believes that the Federal Railroad Administration should establish, in cooperation and consultation with state agencies, Rail Labor, and other direct stakeholders, enforceable regulations setting minimum site distances for vehicular traffic at all private and public grade crossings without active warning devices. It is BMWED’s opinion that insurance arrangements do little to influence safety at private grade crossings due to the inability of insurance underwriters to enforce usage restrictions.

- *How should improvement and/or maintenance costs associated with private crossings be allocated?*

Improvement and maintenance costs for new private grade crossings should be split equally between the State government, Federal government and the property owner. However, each case should be evaluated on its own merit. There may be some cases where the responsibility allocation should be adjusted. The State & Federal government for instance should split the cost of a crossing warning system where school buses are required to use the crossing to pick up or discharge school children, or where emergency vehicles require access.

Furthermore, BMWED believes that, in all fairness, existing property owners should be grandfathered from full cost sharing and the bulk of the cost for protecting existing private crossings should be shared primarily between the state and federal government, based upon priorities determined by a comprehensive risk assessment of each private crossing.

- *Is there a need for alternative dispute resolution mechanisms to handle disputes that may arise between private crossing owners and the railroads?*

The BMWED chooses not to comment on this matter because such should be jointly determined by the private crossing owners and the railroad.

- *Should the State or Federal government assume greater responsibility for safety at private crossings, or for intersection design of new private crossings?*

Yes, the State and Federal governments should assume greater responsibility for safety at private crossings. As evidenced by the data contained in Docket No. FRA-2005-23281 there is a known safety problem at private crossings. There are far too many accidents and an unacceptable number of fatalities along with these accidents. As stated previously, the BMWED believes that there should be no private crossings created in the future unless they are equipped with active crossing warning devices. If the DOT/FRA is going to allow for the creation of future private crossings, then the State and Federal governments should have regulatory oversight for intersection design, inclusive of line-of-site distances, of these new private crossings.

- *Should there be nationwide standards for warning devices at private crossings, or for intersection design of new private grade crossings?*

Yes, BMWED believes there should be nationwide standards for warning devices at private crossings and for intersection design. BMWED believes that the standards should be uniform and consistent to facilitate the “conditioning” of private crossing users to respond to signage and warning devices they encounter at any grade crossing. BMWED believes the Manual on Uniform Traffic Control Devices (MUTCD) Part 8, Traffic Controls for Highway-Rail Grade Crossings could provide useful guidance in this area.

- *How do we determine when a private crossing has a ‘public purpose’ and is subject to ‘public use’?*

BMWED believes that the term “private crossing” must be clearly and narrowly defined to identify only those private crossings used exclusively for farm-to-field crossings and residential driveways (fewer than 4 units). Any “private crossing” used in commerce, i.e., for private business purposes, used by employees, contractors, and suppliers of private businesses, and those used by the public to enter commercial facilities should be re-designated as public grade crossings and be subject to the safety protocols and regulations related thereto.

- *Should some crossings be categorized as ‘commercial crossings’ rather than as ‘private crossings’?*

BMWED believes that “commercial crossings” are public crossings and should be designated as such.

- *Are there innovative traffic control treatments that could improve safety at private crossings on major rail corridors, including those on which passenger service is provided?*

The BMWED is not aware of any proven “innovative traffic control treatments” outside of standard active warning devices. We believe that “innovative traffic control treatments” may play a significant role at private crossings in the future, especially once the cost and reliability of such systems makes their widespread application at private crossings feasible. However, to address the immediate risk, basic grade crossing flashing light signals and/or gates are proven



technology that would instantly decrease the hazards inherent with all crossings that lack an active warning system.

- *Should the Department of Transportation request enactment of legislation to address private crossings? Is so, what should it include?*

Yes, the DOT should request enactment of legislation to address private crossings. As stated previously, there is not enough being done to reduce accidents and fatalities at private crossings. At a minimum the legislation should include the sight line distances; signage requirements; and grade crossing signal system flashing light signals.

The Brotherhood of Maintenance of Way Employees Division appreciates this opportunity to submit these written comments to the docket. BMWED looks forward to working with all stakeholders to address this important public safety issue.

Respectfully submitted,

Rick Inclima (signed)  
BMWED Director of Safety

cc: Mr. Grady Cothen



**LIVONIA, AVON & LAKEVILLE RAILROAD CORP.**

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July 23, 2007

Ron Ries  
Office of Safety  
Federal Railroad Administration  
1120 Vermont Avenue, NW  
Washington, DC 20590

Re: Safety of Private Highway-Rail Grade Crossings;  
Notice of Safety Inquiry  
Docket No. FRA-2005-23281

Dear Mr. Ries:

Railroads of New York, Inc., representing New York State's railroad industry, hereby submits comments in response to the Notice of Safety Inquiry referred to above. I serve as Chairman of the Regulatory Review Committee of RONY.

These comments are also submitted on behalf of the Livonia, Avon & Lakeville Railroad (LAL), B&H Rail Corp. (B&H), and Western New York & Pennsylvania Railroad (WNYP).

If you have any questions, please do not hesitate to contact me.

Yours very truly,

William D. Burt  
President and Chief Operating Officer

WDB/  
attachment

~ Safety and Service ~

BEFORE THE UNITED STATES DEPARTMENT OF TRANSPORTATION  
FEDERAL RALROAD ADMINISTRATION  
WASHINGTON, DC 02590

Safety of Private Highway-Rail  
Grade Crossings; Notice of  
Safety Inquiry

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Docket No. FRA 2005-23281

**COMMENTS OF RAILROADS OF NEW YORK, INC.**

WILLIAM D. BURT  
Chairman, Regulatory Review Committee

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July 26, 2007

## INTRODUCTION

Railroads of New York, Inc. (RONY) represents the freight railroad industry in New York State, including the four Class I railroads, CSX, Canadian National, Canadian Pacific, and Norfolk Southern, and about thirty short line and regional railroads. RONY members carry over 99 per cent of goods moved by rail in the state.

RONY's mission is "to provide a trade association for all freight railroads that operate in the State of New York to advocate for the rights and needs of railroads and their customers, as well as to encourage economic growth within the State of New York." RONY's mission is also supported by many industries, including suppliers and customers and their employees, which are dependent upon New York's railroads. RONY advocates for successful resolution of key issues facing the rail industry.

RONY has established a Regulatory Review Committee to identify state and local laws and regulations applicable to the rail freight industry that should be eliminated, reformed, or made more cost-effective. These comments are submitted in my capacity as chairman of the committee.

They are also submitted on behalf of the Livonia, Avon & Lakeville Railroad, the B&H Rail Corp., and the Western New York & Pennsylvania Railroad, which I serve as President and Chief Operating Officer. LAL operates 29 miles of rail line south of Rochester in New York's Monroe and Livingston Counties. B&H operates 47 miles of line west of Painted Post in Steuben County. WNYP operates 238 miles of line between Hornell, NY and Meadville, PA, and between Meadville and Rouseville, PA, in southwestern New York and northwestern Pennsylvania. All three railroads are Class III carriers.

### Private Crossing Safety in New York State

There are about 5,900 active at-grade highway/railroad grade crossings in New York State. Of these, 2,916 are public crossings and about 3,000 are private crossings. During 2005, thirty-three grade crossing accidents were reported in the state, of which four accidents, or 12%, were at private crossings. Data for these accidents are summarized below:<sup>1</sup>

*Grade Crossing Accidents by Crossing Type—2005*

<b>Crossing Type</b>	<b>Total Accidents</b>	<b>Total Injuries</b>	<b>Total Fatalities</b>
Public	29	10	11
Private	<u>4</u>	<u>1</u>	<u>2</u>
Total	33	11	13

*Grade Crossing Accidents by Railroad Class—2005*

<b>Railroad Class</b>	<b>Accidents</b>	<b>Injuries</b>	<b>Fatalities</b>
Class I	25	7	12
Class II	1	0	0
Class III	<u>7</u>	<u>4</u>	<u>1</u>
Total	33	11	13

The 10-year record of accidents at private crossings follows:

<u>Year</u>	<u>Accidents</u>
1996	6
1997	7
1998	8
1999	8
2000	12
2001	10
2002	15
2003	8
2004	2
2005	5

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<sup>1</sup> New York State Department of Transportation Rail Safety Bureau, *2005 Annual Report*, Tables 15 and 16, page 31. This report is available at [www.nysdot.gov](http://www.nysdot.gov).

During the period, there were a total of 378 grade crossing accidents resulting in 66 fatalities and 192 injuries. 297 accidents (79%) occurred at public crossings while 81 (21%) occurred at private crossings. Class I railroads were involved in 300 (79%) of the accidents, while Class II and III railroads were involved in 78 (21%).<sup>2</sup>

### Types of Private Crossings

Generally, private crossings in New York fall into one of three categories:

- Deeded crossings
- Licensed crossings
- Statutory farm or timber extraction crossing

*Deeded crossings* are provided for by a deed covenant entered into when railroad property was acquired, or by a similar agreement. Their provisions vary case by case. Crossing owners<sup>3</sup> typically assume that they have a right to retain and use the crossing for any purpose, and to assign or subdivide such right. Often, however, the language of the deed refers to a "farm" crossing or even more specific uses, such as "a crossing to lead horses by the bridle across the track." Deed covenants often fail to address issues of maintenance cost and liability, and there is seldom any language addressing the crossing owner's responsibility for safety.

*Licensed crossings* are provided for by an agreement entered into between the railroad and crossing owner. As licenses, rather than recordable easements, they are typically revocable by the railroad. The more modern agreements address permitted uses and safety requirements, costs, liability, and insurance.

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<sup>2</sup> *Ibid.*, Figures 11 through 16, pages 32-33.

<sup>3</sup> Herein, the owner of a right to have a private crossing is referred to as a "crossing owner." This should not be construed to mean that the crossing is actually owned by such person. The railroad owns the entire crossing within the boundaries of its property or right of way, and pays property taxes thereon, where applicable.

The right to a *statutory farm or timber extraction crossing* is provided for by Section 52 of the New York State Railroad Law under certain circumstances. In order to qualify, a proposed farm crossing's *primary use* must be to permit the *owners* and/or *occupants* of *adjoining* land to access such land to *actively* use it for farming or agriculture. Not included is land that is primarily used for recreational, residential, industrial, or other purposes.<sup>4</sup> The crossing must be *reasonably necessary* for their use, i.e., the least burdensome imposition upon the railroad that accomplishes the statutory purpose. "Reasonably" perhaps also implies some basis to resist a proposed crossing on safety grounds. Timber extraction crossings are similarly restricted.

Because statutory farm and timber extraction crossings are required only under certain circumstances, the railroad's obligation to maintain them ends when the circumstances no longer apply.

A reading of Section 52 makes clear that it is an artifact of a time when state regulatory agencies, reflecting widespread sentiment, felt free to saddle the iron horse with burdens such as the cost of highway grade separation projects, improvements to railroad stations, and other mandates justified in the name of the public interest. Section 52, however, was not for the benefit of the public. By definition, it conferred a benefit upon a *private* interest, the owner of agricultural land, at the expense of another private interest, the railroad. Even in 1910, regulation required the railroad to operate safely, yet it seems to have troubled no one at the time that Section 52 might interfere with that, for railroad track was asked to do less than it is today, and the carriers employed hordes of employees to maintain it. These things have changed over time.

Among other things, Section 52 fails to address responsibility for costs or liability associated with a proposed crossing, leading many applicants to expect that the railroad

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<sup>4</sup> Section 52 was amended in 2002 to add the last sentence, restricting the meaning of "farm crossings" to refer to active farming or agricultural uses only.

bears them. A more contemporary approach to this kind of special interest legislation would provide that all costs and liabilities be assumed by the applicant.

**Some Recent Experiences with Private Crossings**

During recent years, both Norfolk Southern and CSX have pursued programs to close some private crossings in conjunction with track upgrades. NS posted signs at certain crossings on its Southern Tier Line implementing a program of removing unused and unauthorized crossings in conjunction with track upgrades. The sign is shown below.

*Norfolk Southern private crossing closure sign near Adrian, NY, June 25, 2003.*

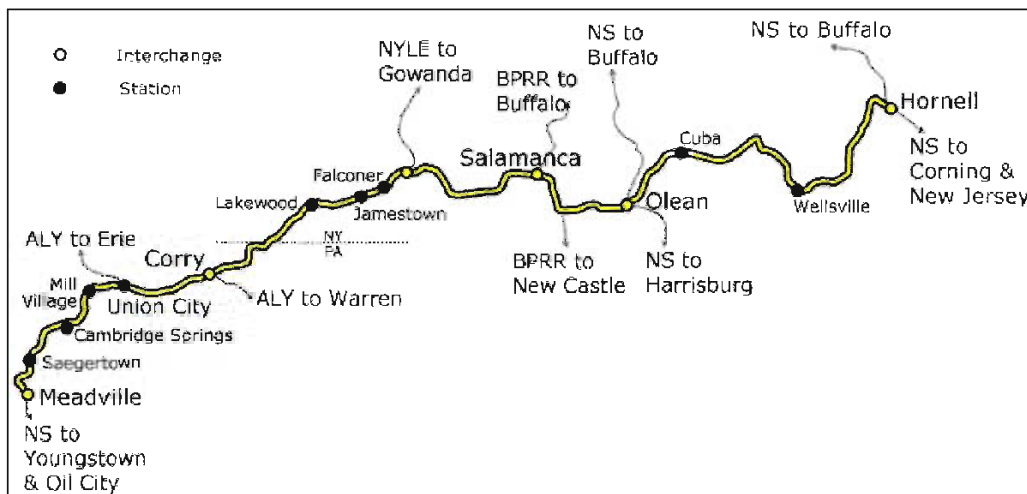




Reportedly, CSX posted similar signs along a 30-mile line in southwest Virginia. Despite news articles claiming that CSX was backing down following some local protests, CSX continued to pursue a well-organized effort to close crossings.<sup>5</sup>

The Western New York & Pennsylvania Railroad assumed responsibility for the trackage from Hornell, NY to Corry, PA in April 2001, following its lease from Norfolk Southern (see map below). The 63-mile segment from Hornell to Olean, NY and the 29-mile segment from Jamestown, NY to Corry had been out of service for a decade, and the 53-mile Olean-Jamestown segment was operated at 10 MPH. On the out-of-service segments, neighboring landowners had constructed several obviously unauthorized crossings, which in some cases obstructed the safe passage of trains. WNYP lacked reliable, up-to-date information concerning the status of most private crossings.

*Western New York & Pennsylvania Railroad map (Oil City Branch not shown)*



As WNYP began to rehabilitate track conditions in 2002-03, it became necessary to ascertain which crossings were authorized. Accordingly, we sent over 300 letters seeking copies of deed covenants or other documentation supporting the existence of

<sup>5</sup> Richmond Times-Dispatch, June 18, 2003, and CSX handout obtained at CSX Shortline Trade Show in December 2003, entitled, "The Private Grade Crossing Initiative."

each crossing. The letter was careful to assure recipients that authorized crossings would be restored following completion of track work, and that WNYP would "gladly comply" with the railroad's obligations. On the other hand, persons wishing to retain unauthorized crossings were required to apply for a private crossing agreement. Even there, we offered a \$200 application fee and \$100 annual rental guaranteed for ten years, subject to inflation indexing.

Some recipients accepted WNYP's offer, but others hired lawyers, wrote letters to elected officials, and planted stories in local newspapers.<sup>6</sup> One threatened to blow up a train.

Locally-based short line railroads, it is said, are better able to serve the customer and nurture rail freight traffic. This was the other side of the coin: Those people who are angry about a private crossing go directly to the railroad's president with phone calls and threats of lawsuits. They complain to elected officials who obtain grant funding for the railroad's rehabilitation. They write letters to the editor. They don't get an answering machine in Harrisburg and a call back after passions have cooled.

An attorney representing several crossing owners wrote that his clients possessed "the absolute right" to cross WNYP tracks, adding that "You have no right to interfere with my clients' right to the use of their property, [and they] will not tolerate molestation from you or your company." He and others flatly refused to supply documentation, asserting that the railroad had no right to expect anything from crossing owners.<sup>7</sup>

WNYP closed one farm crossing on a newly rehabilitated segment of our main line after a contractor excavating gravel from the property dumped a large quantity of dirt and stones on the crossing to make it wider and smoother for his trucks. While resolution

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<sup>6</sup> "Landowners angry over requested railroad fees," Cuba (NY) Patriot, March 26, 2003.

<sup>7</sup> Of course, such documentation could be obtained through discovery in a lawsuit. We can envision a scenario in which the railroad proceeds to tear out private crossings for which documentation is not provided, is sued, and then uses the process to obtain the necessary documentation. But this hardly seems practical, as it might well involve the destruction of legitimate private crossings, followed by their restoration later on. Surely there must be a better way.

of this matter was being negotiated, the landowner persuaded the county legislature to pass a resolution opposing the railroad's efforts to require license fees for continuance of unauthorized crossings. He then enlisted the New York State Farm Bureau to publish an article in its magazine, and the Cornell Cooperative Extension and U.S. Department of Agriculture wrote letters supporting his cause. Not one of these entities acknowledged the illegality and danger of tampering with the track.

Common threads in these recent experiences include:

- Lack of up-to-date information on status of crossings.
- The belief on the part of some crossing owners that they have absolute rights but no responsibility to cooperate with the railroad's efforts to determine crossing status or improve safety.
- Tampering with railroad property.

### **The Private Crossing Problem**

The "private crossing problem" is actually a cluster of related issues:

#### Inadequate records

The threshold issue with most private crossings is to establish which ones should continue to exist. Many railroads lack good records of how private crossings came into being, especially where they operate lines acquired on a quit-claim deed or "as is" lease subject to prior encumbrances, whatever they may be. Valuation maps often show the authorized crossings, but not the way in which they became authorized, i.e., deeded vs. statutory farm crossing. The deed language is pivotal, of course.

The owners of deeded crossings often construe their rights expansively. Many crossings could be closed if their rights were better understood, but litigation may be burdensome for short lines and larger railroads may not wish to dedicate staff resources.

#### Noncompliance of crossing use with the terms of its authorization

As land uses have evolved over time, some crossings have come to be used in ways not provided for in the deed, license agreement, or Section 52 of the Railroad Law.

Examples include:

- Conversion of farm crossings to residential and/or recreational use.
- Assignment of the right to use a farm crossing to third parties extracting timber. Very often, the timber is skidded across the track, which poses a risk of derailment due to wide-gauge. Loggers skidding logs across the track may not be able to clear the crossing in time to avoid being hit by an approaching train.
- Assignment of the right to use a farm crossing to third parties extracting gravel. These operations usually foul the track with mud and stones, and the heavy truck traffic is more than the farm crossing was designed to bear.
- Farm crossings leased out for use as part of snowmobile trails, which results in hard-packed snow in the flangeways and heightened risk of derailment. In upstate New York, snowmobile clubs are politically active and supported by state appropriations to build and maintain a network of trails.
- Farm crossings used for public access to strawberry fields, pine tree plantations, and other retail agriculture.

*Unauthorized signage installed at private crossing being used as public snowmobile trail.*



#### Conversion to public crossing

Some private crossings have been illegally converted to public use:

- *De facto* public crossings created through subdivision of the crossing owner's property.
- Public crossings created through sale of the owner's property to a buyer that will use it for public access (to retail or industrial facilities, for example).

#### Compulsory provision of statutory crossings

Section 52 of the Railroad Law continues to confer a right to a private crossing upon those who can qualify for it, regardless of the safety issues involved. In addition, attorneys engaged by crossing owners sometimes contend that the railroad cannot pursue any crossing closure that would result in property owners being landlocked. This argument leads to demands for compulsory provision of a crossing.

## Safety and Cost Impacts

In addition to the safety and liability exposure presented by private crossings, they are costly to the railroad. In 2003, CSX estimated the construction cost of a new 15-foot crossing at \$7,500 and its life at ten years. At that time, CSX engineering data classified nearly 9,000 crossings as private, yet only about 3,000 had active crossing agreements.<sup>8</sup>

The cost and risk of providing these crossings has been magnified by the advent of farm equipment having a wide wheelbase. If the railroad accommodates this equipment, it bears the cost of the wider crossing. If it declines to provide more than a standard width crossing, the farmer often operates the equipment over the tracks anyway, running the risk of snagging a rail and pulling the track out of alignment.

Private crossing agreements traditionally require the owner to construct the approaches up to the toe of the ballast. WNYP prohibits the crossing owner from doing any work on railroad property due to safety, liability, and engineering reasons. This increases the costs borne by the railroad.

As heavier cars have become common, modern track structure has evolved toward more robust standards: Heavy welded rail on good ties on carefully specified rock ballast, to a depth that was seldom required even thirty years ago. Ideally, welded rail has a constant anchor pattern (usually every other tie) and expands and contracts evenly, but each fixed obstacle such as a crossing or bridge abutment interferes with that ideal and represents a point where, despite extra anchoring, the rail is more likely to “kink” in hot weather. Today’s mainline track requires mechanized maintenance and is less amenable to small repairs like those required in and around private crossings; when they are made, a surface deviation from the adjoining track often persists despite efforts to eliminate it. Due mainly to heavier axle loads, modern track is much less tolerant of drainage issues and fouled ballast.

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<sup>8</sup> CSX Transportation Property Services Dept., “The Private Grade Crossing Initiative” (2003).

The private crossing is thus a focal point of trouble. It holds moisture and dirt, accelerating crosstie decay and causing surface defects. It is often fouled with manure and mud that freezes in the winter and can cause derailments. Its approaches obstruct the railroad's drainage ditches, and their small-diameter sluice pipes are subject to blockage.

Private crossings located at the foot of sidehill roads present a special problem. As shown below, uncontrolled drainage can do great damage to the track. If the railroad had the ability to approve plans for such crossings before they are built, it could require the crossing owner to address drainage issues. With deeded and statutory farm crossings, however, the railroad is usually powerless to impose such requirements.

*Uncontrolled drainage ran over the track and washed out ballast at this private crossing.*



As the track is resurfaced, it gets higher. Remember—More inches of clean ballast under the ties is a *good* thing! But private crossing owners seldom see it that way. They sometimes take it upon themselves to build up the approaches, usually by dumping dirt fill. No one wants a crossing that is too steep, but crossing approaches should nonetheless slope away from the track. Unfortunately, these self-help projects often end up directing water and mud toward the track.

*Steep sidehill road flooded the track with silt.*



*The same crossing, showing ditches full of silt and weed growth from fouled ballast.*





## The Private Crossing Solution

It seems clear that if railroads were permitted to manage their property free of compulsory obligation to provide private crossings, authorization for new private crossings would be rare. Norfolk Southern's web site is blunt:

“Norfolk Southern is committed to employee and public safety and is opposed to the establishment of any new grade crossings. The best plan for safe crossings is no crossings at all. Our Safety and Real Estate Departments work hand in hand to eliminate grade crossings wherever possible... We strongly urge you to find an alternate means of access to your property.”<sup>9</sup>

These sentiments reflect a widespread view in the rail industry as well as longstanding federal and state policies encouraging reduction in the number of crossings for safety reasons. Accordingly, voluntary authorization for new private crossings would, I suspect, tend to be limited to industrial crossings that are part of site development for new rail-served industries, which are usually carefully designed and often equipped with warning devices. Elsewhere, private crossings represent a safety, liability, and cost burden without offsetting benefit to the railroad.

Where private crossings continue to exist, private crossing owners should be:

- Responsible for the costs and liabilities associated with their private benefit, except as governed by deeds or other agreements.
- Accountable for compliance with the terms of the applicable crossing agreement, instead of the scofflaw state of nature that now exists.
- Expected to do their part to support railroad safety, including cooperation with railroad efforts to determine crossing status.

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<sup>9</sup> [www.nscorp.com](http://www.nscorp.com), Real Estate Services home page, July 23, 2007.

## Responses to Specific Questions Posed by FRA

- 1.) How do we determine whether creation or continuation of a private crossing is justified?

With respect to creation of new crossings, the factors are too site-specific to be adequately defined in regulation. With respect to continuation of existing crossings, the crossing owner may have a deeded crossing, licensed crossing, or statutory farm or timber extraction crossing, as discussed above. The railroad industry is capable of sorting out and considering these issues on a case-by-case basis, if empowered to do so.

- 2.) Is the current assignment of responsibility for safety at private crossings effective? To what extent do risk management practices associated with insurance arrangements result in "regulation" of safety at private crossings?

Where private crossings are licensed, the license agreements assign responsibilities adequately. With respect to many deeded and statutory crossings, however, the rail industry's hands are tied. At a minimum, if railroads are going to be compelled to provide private crossings, they should be shielded from liability for doing so. Likewise, this shield should be extended to cover deeded crossings, inasmuch as many of these deeds fail to address liability.

- 3.) How should improvement and/or maintenance costs associated with private crossings be allocated?

As discussed above, private crossings are for the sole benefit of the crossing owner, who should be expected to bear all costs of providing them, insofar as deed or contractual arrangements permit.

- 4.) Is there a need for alternative dispute resolution mechanisms to handle disputes that may arise between private crossing owners and the railroads?

Perhaps, but this may not be feasible with many deeded crossings.

- 5.) Should the State or Federal government assume greater responsibility for safety at private crossings?

The railroad industry can be counted on to promote safety in connection with private crossings, if empowered to do so.

- 6.) Should there be nationwide standards for warning devices at private crossings, or for intersection design of new private grade crossings?

Private crossing specifications are too site-specific to be adequately defined in regulation, especially once we consider that drainage control, maintenance of approaches, brush control, vehicles on or near crossings, and the owner's planned use of the crossing, etc., must all be addressed.

- 7.) How do we determine when a private crossing has a "public purpose" and is subject to public use?

In layman's terms: When it extends beyond employees, agents, invitees, etc., or they are so numerous as to constitute an invitation to the public. Conversion to public use is already prohibited by state regulation.

- 8.) Should some crossings be categorized as "commercial crossings" rather than as "private crossings?"

It is not clear that a need exists for a third category of crossing.

- 9.) Are there innovative traffic control treatments that could improve safety at private crossings on major rail corridors, including those on which passenger service is provided?

Individual railroads are better situated to respond to this question. Of course, the safest crossing is a closed crossing.

- 10.) Should the Department of Transportation request enactment of legislation to address private crossings? If so, what should it include?

Clearly, something must be done to empower the railroad industry to manage the private crossing issue in the interest of safety, by eliminating compulsory provision of private-crossings-on-demand. Whether this is better handled at the state or federal level should be discussed. New York currently requires NYSDOT approval for new private crossings in intercity rail passenger service or commuter rail service corridors.<sup>10</sup> Public policy should continue to presume that private crossings are disfavored for safety reasons.

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<sup>10</sup> Sections 97 and 97-a of the New York State Railroad Law.

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**RAILROADS OF NEW YORK**

**RONY Executive Committee (2007)**

President	Bruce Lieberman New York & Atlantic Railway
Vice President	Maurice O'Connell CSX Transportation
Secretary	William D. Burt Livonia, Avon & Lakeville Railroad
Treasurer	Jane Franz Buffalo Southern Railroad
Member at Large	Michael Fesen Norfolk Southern Railway
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Member at Large	David Monte Verde GVT Rail System

**RONY Regulatory Review Committee**

Chairman	William D. Burt Livonia, Avon & Lakeville Railroad
Member	Mike Smith Finger Lakes Railway
Member	David Monte Verde GVT Rail System

**RONY Executive Director**

Norman R. Schneider

**Government Relations and Marketing**

Griffin, Plummer and Associates

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Name: Robert Pines  
E-mail:  
Employed as: Other, non-employee, for N/A  
Posted: 24 July 2007

<http://www.youtube.com/watch?v=jxJWspDonYs>  
Here's another math question for ya Slackie.

Hillary says there are 219,000 miles of track.  
Hillary says the FRA inspects point two per-cent of this track.  
That would be 438 miles of track inspected a year or  $438 \times 5280 =$   
2,312,640 feet of track inspected a year  
Hillary says there are 400 FRA inspectors  
There are 2,080 working hours in a year. ( $52 \times 8 \times 5$ )  
The FRA inspectors are off say 20% of these hours for vacation, sick  
days, and holidays so 1,664 hours times 400 inspectors = 665,600 FRA  
hour inspections.  
 $2,312,640 / 665,600 = 3.47$  feet of track inspected per FRA inspection  
hour.

What size shoe does Hillary wear and where do the FRA inspectors sleep?

## **Safety at Private Highway-Rail Crossings**

### **Alternative Approach Discussion Topics**

#### ***Findings:***

1. The use of public funds to make improvements has played an important role in improving safety at public crossings. Except in very rare circumstances, however, public funding has not been, and currently is not available for use at private crossings. As a result, the proportion of private crossings equipped with more effective warning devices, particularly active warning devices, is much lower than the proportion of public crossings so equipped. Improvements in safety (as reflected in the accident, fatality, and injury counts Nationwide) at private crossings, therefore, have lagged behind the improvements seen at public crossings.
2. The data currently stored in the National Highway-Railroad Crossing Inventory for private crossings are inadequate for most analyses, and insufficient to support effective resource allocation.
3. In particular, current data are not sufficient to allow analyses of trends in either highway or rail traffic at private crossings. Assuming, however, that exposure trends at private crossings are similar in direction to those at public crossings, even if they are not similar in scale, it seems reasonable to believe that exposure at private crossings has risen somewhat over the past decade. Based on this assumption, accident, incident, and casualty rates at private crossings have likely fallen somewhat over the same time period. National totals of accidents, incidents, fatalities, and injuries are stagnant, however.
4. Population increases, changes in land use, and both recent and projected growth in rail and highway traffic suggest that exposure to accident risk at private crossings is likely to continue increasing. Accordingly, the number of opportunities for accidents, and therefore for casualties, will also increase unless new initiatives for improving private crossing safety are identified and effectively implemented.
5. Absence of a cohesive policy or regulatory structure at any level has led to the existence of private crossings that are redundant, inadequately designed, and/or poorly maintained.
6. Motorists represent only a portion of the populations at risk due to accidents at private crossings. The risks of collision and of derailment mean that the train crews, train passengers, and others in the vicinity of the crossing may be exposed to derauling equipment or hazardous materials releases.
7. With few exceptions, no public bodies at the State or local level are vested with authority or responsibility for safety at private crossings.

## **Safety at Private Highway-Rail Crossings**

### **Alternative Approach Discussion Topics**

8. No process currently exists that predicates the creation of new private crossings or the continuation of existing crossings on considerations of public safety or necessity.
9. In most States, there are no publicly-sanctioned engineering criteria for private crossings. Accordingly, users of those crossings may encounter a variety of signage, road surface conditions, and other engineering attributes.
10. For most private crossings in the Nation, there is no agreement in place specifying the responsibilities of the railroad and the holder. Disputes must typically be resolved through direct interaction between the railroad and the crossing holder, or, failing that, through litigation.
11. The level and type of highway use, i.e. whether the public has an expectation of free access to a crossing, is a key factor affecting the safety at that crossing.
12. In general, local planning and zoning authorities do not regularly take into account the impacts on interstate rail transportation of the development decisions that they oversee.
13. Railroads' ability to control roadway design or traffic control device selection and placement is limited. They also often lack the authority to control the highway usage of a given crossing
14. At substantial cost, railroads make significant efforts to close or improve private crossings. However, they are hampered by common law, and in some cases statutory law, which do not recognize the degree to which private crossings threaten the safety of road users, railroad employees, and potentially other members of the public in the vicinity.
15. The contribution of education and awareness programs to safety at private crossings is not documented, but safety knowledge and awareness would appear relevant to private crossing safety, provided that engineering arrangements present suitable cues to facilitate safely traversing the intersection.
16. Since State laws applicable to public roadways do not apply at private crossings, and since most users of private crossings are likely authorized users, law enforcement does not appear to be a useful strategy for improving safety at private crossings.
17. Effective solutions to improving safety at the Nation's private highway-rail grade crossings will require active collaboration between the parties involved. These parties include, but may not be limited to:
  - the holders of the right to cross the railroad,
  - the railroads,
  - local public planning approval authorities,



## **Safety at Private Highway-Rail Crossings**

### **Alternative Approach Discussion Topics**

- state agencies that enforce crossing design standards,
- professional and/or industry organizations responsible for developing standards,
- the U.S. Department of Transportation (DOT).

18. Within the DOT, the Federal Railroad Administration (FRA) is the only agency with statutory authority directly relevant to the subject matter. However, in the interest of effectively serving the multimodal populations at risk, other DOT surface modes should participate in program development.

### ***Proposed Actions***

#### ***Option A***

The FRA proposes to publish new National Policy, to include the following:

- A clear declaration that new private crossings are disfavored, except where clearly necessary after evaluation of all reasonable alternatives.
- A declaration that every private crossing should have a recorded agreement addressing, at a minimum, safety-related factors.
- Establishment of an enhanced private crossing classification scheme for inclusion in the National Grade Crossing Inventory, and for use by diagnostic teams, that resembles the following:
  - Private crossings with private use (where there is not a perception that the general population is invited or allowed access)
    - Residential driveways (fewer than 4 units)
    - Farm field-to-field crossings
  - Private crossings with public use
    - Large residential driveways
    - Commercial crossings where the public access is expected (shopping centers, business parks, medical offices, parking lots, sports arenas, other recreational sites)
    - Industrial crossings (dependent on traffic count, design vehicle)
- Note: In determining public use, the type of train traffic should also be a factor taking into consideration the impact of a collision on passengers on the train or on near-by facilities.
- A declaration that States should establish programs for review of existing private crossings, and publication of exemplar State legislation for those States that do not currently have jurisdiction over safety at private crossings.

## **Safety at Private Highway-Rail Crossings**

### **Alternative Approach Discussion Topics**

- A declaration that States should establish or identify a process whereby they are notified of land use changes that might affect safety at a private grade crossing, and publication of exemplar State legislation for those States that do not currently have jurisdiction over safety at private crossings.
- A declaration that States should establish or identify a process for notifying affected railroads of any land use changes that might affect safety at a private grade crossing, and publication of exemplar State legislation for those States that do not currently have jurisdiction over safety at private crossings.
- Establishment of guidelines or thresholds of exposure or other factors affecting safety, to determine when those new private crossings, or those crossings at which land use changes affect safety, when they are deemed necessary, should be subject to a risk-based evaluation by a diagnostic team.
- Establishment of guidelines for diagnostic teams that promote a Nationally consistent approach to making improvements at private crossings, to include the following:
  - Risk levels should be calculated for each private crossing. Analysis should be performed to determine the appropriate risk remediation treatments. Risk above a certain threshold should trigger use of AASHTO roadway design standards.
  - Diagnostic teams should consider crossing closure before considering any other treatment option.
  - Where possible, diagnostic teams should consider consolidating crossings. This may be accomplished by providing access either to a nearby public crossing, or to a nearby private crossing that can be adequately upgraded to improve safety.
  - Where closure or consolidation proves infeasible, diagnostic teams should examine the possibility of implementing inexpensive grade separations.
  - Should the preceding options prove infeasible, determination of the appropriate treatment should be predicated in part on whether the private roadway is open to public travel, and on whether there are access restrictions.
  - Crossings at which there is an expectation of public use should be treated in a manner consistent with the guidelines in the MUTCD.

FRA will also pursue the following pilot project:

- A study of the feasibility of using diagnostic team approach on private crossings in a corridor.
- A study of the effectiveness or applicability of new low cost solutions.

## Safety at Private Highway-Rail Crossings

### Alternative Approach Discussion Topics

- Study methods of using best available technology for transmitting private crossing data to inventory.

#### *Option B*

U.S. DOT will seek legislation providing explicit authority to be vested in the Secretary, supplementing the Railroad Safety Laws, for regulation of safety at private highway-rail grade crossings. The legislation should be sufficiently broad to enable the following:

- Adopt a clear declaration of National Policy that new private crossings are disfavored, except where clearly necessary after evaluation of all reasonable alternatives.
- Require that a Statement of Essential Need be provided to the railroad before any new private crossing is created (whether public use, agricultural, or other) or the use changes (e.g., light residential to commercial or industrial).
- Require that the Statement specify the intended use (volume, type of traffic, nature of permission to use), and why alternative access is not available or is not suitable.
- Provide a procedure for the railroad, State agency, or FRA to challenge the Statement or propose alternative access.
- Establish that no new private crossing may be opened for traffic, or subjected to a change in use, until equipped in according with the requirements above.
- Require that the railroad and holder enter into an agreement with specified elements where the crossing cannot be closed.
- Specify the responsibilities of the crossing holder and the railroad. Since use of the crossing is determined by the holder, place a clear responsibility on the holder to participate in making necessary improvements at the crossing.
- Provide a mechanism for the railroad(s) using the rail line to challenge the continued necessity for the crossing.
- Provide one or more mechanisms for alternative dispute resolution when a dispute arises regarding the opening, closing or improvement of a private crossing. (Shared cost, railroad and holder.)
- Provide a mechanism for dispute resolution, available only where alternative dispute resolution has failed. (Public cost.)
- Provide a means of certifying any State capable of handling these issues within the State.
  - Certification would be based on substantial conformity with the policies adopted at the National level, provision of legal opinion that the State agency is authorized to undertake the function, and periodic affirmation by

## **Safety at Private Highway-Rail Crossings**

### **Alternative Approach Discussion Topics**

the State agency that it is funded at a level permitting it to show progress in addressing the issue.

- Classify private crossings by use, providing suitable objective definitions.
- Require treatments based on private crossing classifications, as follows:
  - All private crossings:
    - Specify minimum signage to consist of a crossbuck, supplemented by a stop or yield sign, and, in the case of non-public use crossings, a standard plate stating, “Private Crossing - Authorized Users Only.” Require replacement of existing signage as needed, not to exceed 7 years from date of final rule.
  - Private crossings with Public Use:
    - Provide that public use crossings shall conform to the MUTCD.
    - Make public use crossings eligible for improvement under section 130; however, require a documented statement of public benefits before funds are expended.
    - Except where a quiet zone is in effect, require use of the train horn at public use crossings under the same rules as public crossings.
    - Provide risk-based regulatory requirements for improvements at public use crossings and other private crossings (except agricultural crossings; see below), including sight distance requirements as applicable. Consider factors such as road traffic, rail traffic, presence of rail passenger service, maximum train speeds, etc.
    - After period of progressive work to improve these crossings, require that they be closed if not equipped according to requirements.
  - Private Crossings with Seasonal or Agricultural Use:
    - Specify use of locked gates or minimum signage (above) for agricultural crossings on tracks where the maximum authorized train speed exceeds 25 mph.
    - Specify a requirement for railroad dispatcher approval to traverse the crossing where maximum authorized train speed exceeds 49 mph, except where some form of active warning is provided.
- Improve the National Highway-Rail Grade Crossing Inventory with respect to private crossings:
  - Require railroad to populate private crossing data fields in the inventory, providing updates not less frequently than once every 3 years.
  - Add data elements as needed for analysis.
  - Permit railroad to estimate information not directly available.

**NEW YORK STATE DEPARTMENT OF TRANSPORTATION**

**COMMENTS TO DOCKET NO. FRA-2005-23281  
SAFETY OF PRIVATE HIGHWAY-RAIL GRADE CROSSINGS**

**I. BACKGROUND ON NEW YORK LAWS**

To address safety at private rail-highway crossings, the New York State Legislature enacted Railroad Law, Sections 97 and 97-a in 1994 and 2001, respectively. (Attachment 1) These laws authorize the Commissioner of the New York State Department of Transportation (NYSDOT) to regulate private rail crossings on lines where “intercity rail passenger service” (such as Amtrak) or commuter rail service is operated on a regularly scheduled basis.\*

The Railroad Law defines public crossings as locations where a public street existed prior to 1897 or where such crossings have been designated as such by order of the Commissioner of Transportation. Other crossings, which are private, are classified into three categories:

1. **Farm Crossings.** Farm crossings are authorized by Section 52 of Railroad Law. (Attachment 1) As used in this section, the term “farm crossings” means at-grade rail crossings that are utilized primarily as access to and from adjoining property that is actively used for farming or agricultural purposes by the owner or the tenant of such property.
2. **Deeded Crossings.** Deeded crossings exist where landowners have priority crossing rights, granted them when a rail line was constructed and recorded in a deed.
3. **Agreement Crossings.** Agreement crossings are established by formal agreement between railroads and land owners or occupants; the clearest agreement will document the allocation between the railroad and the landowner/occupant of cost responsibility for the establishment, inspection and maintenance of the crossing.

**II. IMPLEMENTATION OF SECTIONS 97 AND 97-a OF THE RAILROAD LAW**

NYSDOT has promulgated regulations under Section 97 of the Railroad Law (17 NYCRR Part 919) (Attachment 2), and, in consultation with the Metropolitan Transportation Authority (“MTA”), NYSDOT is drafting regulations under Section 97-a. In addition, NYSDOT is preparing new standards and specification guidelines for the design and protection of private rail crossings, along with guidelines for the allocation of cost responsibility associated with establishing and maintaining new private crossings.

NYSDOT has created an updated inventory of all private crossings covered under Sections 97

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\*In addition, the Commissioner of Transportation retains the power to acquire any real property, easements, rights-of-way or similar rights with respect to private crossings pursuant to the New York Eminent Domain Procedure Law. Notably, this authority has not been exercised to date.

and 97-a, identifying locations with the highest vehicular use. NYSDOT is using this information to prioritize efforts to improve protection at private crossings or to close those crossings that present the highest safety exposure. Since 2002, the Long Island Railroad has actively pursued closure of private crossings and has successfully eliminated approximately 50% of all private crossings on the Long Island Railroad.

The legal basis for a private crossing is not always discernable. Records do not generally exist for farm crossings. And, even when there is a deed or agreement documenting the legal basis for a private crossing's creation, such records can be difficult and sometimes impossible to locate. A search of county real estate records may provide some information for deeded rights to a private crossing, but there appear to be few deeded crossings, and a search for such records can be extremely time intensive. Often, records have been misplaced over the years, particularly where railroad consolidations have occurred.

And yet, no public inventory of these sites existed until 1974, when the Federal Railroad Administration ("FRA") created its first Crossing Inventory. Since the enactment of Section 97 of New York's Railroad Law, an extensive effort involving railroad, NYS and FRA representatives has been undertaken to improve inventory information for both public and private grade crossings along corridors where passenger trains operate.

### III. CONCERNS

NYSDOT has encountered a number of obstacles in its efforts to address safety at private crossings and the following four (4) interconnected issues should be considered as FRA develops an overall action plan.

1. **Lack of Funding** – NYSDOT has a pending grant application under the High Speed Hazard Mitigation Program for federal funds for private grade crossing safety. But the High Speed Hazard Mitigation Program, which was first created in Intermodal Surface Transportation Efficiency Act (ISTEA) and reauthorized in SAFETEA-LU, allocated very limited federal funding for state regulation of the safety of private rail crossings, and such funds can only be used on designated High Speed Corridors. Existing grade crossing safety funds available under the Section 130 program are not only restricted to *public* rail crossings, but are also insufficient to address all the needs that exist on the public highway system. An expansion of that program to cover private crossings would not be recommended without a commensurate increase in funding levels. In short, there is a need for increased federal grade crossing safety funds, and for the funds to be available for improvements on private crossings outside the High Speed Corridors.
2. **Lack of Records** – Managing private crossings will require updating the existing federal inventory of all private crossings, including, where available, the legal provenance (agreement or deed) of the particular crossing. The federal inventory is, of course, a valuable resource for the states. A complete and accurate inventory is an essential first step to defining the scope of the project and to identifying the parties responsible for private crossings. Historically, railroads have not consistently managed access to their right-of-way so as to adequately restrict usage over private crossings. As a result, some private crossings have transitioned from use for legitimate farming

purposes to a much greater level of non-farming use with no limitations or protection. (Accordingly, New York State recently clarified the definition of “farm crossings” to crossings actively utilized primarily for farming purposes by the owner or by the tenant of such property.) The railroads should be required to report data on private crossings to the FRA, which should continue to build and refine the existing federal inventory.

### 3. **Litigation**

A. **Federal Preemption** – The United States District Court for the Northern District of New York recently held that the Interstate Commerce Commission Termination Act of 1995 (“ICCTA”), 49 USC sections 10101, et seq., preempts an order issued by NYSDOT under section 97 of the New York Railroad Law to close a private rail crossing. Notwithstanding the State’s legitimate police power to protect the public safety at railroad crossings, the court permanently enjoined New York State from using section 97 of the Railroad Law to close this crossing. The court found that the private crossing and the closure order fall within the exclusive jurisdiction of the Surface Transportation Board, as established by the ICCTA. New York State has appealed this decision to the Second Circuit United States Court of Appeals. A decision is not expected for some time. A copy of the decision in *Island Park, LLC v CSX, et al.*, 2007 U.S. Dist. LEXIS 46608 (June 26, 2007, Kahn, DJ) is attached as Attachment 3.

B. **Private Property Rights** – Property owners and railroads have sued NYSDOT to block the Department’s efforts to limit access points to private crossings, to close private crossings, or to require the installation of enhanced warning systems or protective devices. Challenges can arise out of cost considerations or out of NYSDOT’s allocation of cost and responsibility between landowner and railroad. In addition, landowners may allege an unconstitutional taking and may seek either compensation or an injunction to block enforcement if closing a private crossing will leave private property landlocked. In a recent case challenging NYSDOT’s determination to designate a private crossing as a farm crossing and to direct the railroad to install appropriate grade crossing warning devices, the New York State Supreme Court, Appellate Division, Third Department affirmed NYSDOT’s authority under section 97-a of the Railroad Law to render such determinations to alter private railroad crossings. A copy of the decision in *Long Island Railroad Company v Madison, Commissioner of NYSDOT*, 36 A.D.3d 1106 (3d Dept. 2007) is attached as Attachment 4.

The unique operating characteristics encountered at private grade crossings necessitate application of different treatments for both passive and active devices than presently exist in the national Manual on Uniform Traffic Control Device (MUTCD). As an example, restricted access is generally appropriate for private crossings versus open access at all public grade crossings.

## IV. **RESPONSE TO FRA QUESTIONS**

**1. How do we determine whether creation or continuation of a private crossing is justified?**

New York State Railroad Law requires administrative hearings prior to establishing any new private crossings or modifying existing private crossings. This process provides all parties with an opportunity to explain their position before an Administrative Law Judge, whose recommendation to the Commissioner is guided by the considerations set forth in the Railroad Law.

**2. Is the current assignment of responsibility for safety at private crossings effective? To what extent do risk management practices associated with insurance arrangements result in “regulation” of safety at private crossings?**

There is currently no formal assignment of responsibility for safety at private crossings; the determination is made only on a case by case basis. A formal assignment of responsibility might better address the increased need for public safety on lines on which passenger trains operate. Insurance arrangements only apply to crossings where a formal agreement exists between the railroad and property owner; this represents a very small percentage of the total number of crossings.

**3. How should improvement and/or maintenance costs associated with private grade crossings be allocated?**

NYSDOT is currently developing cost allocation guidelines for private crossings. An Administrative Law Judge may consider the unique characteristics of a particular case in assigning responsibility for cost.

**4. Is there a need for alternative dispute resolution mechanisms to handle disputes that may arise between private crossing owners and the railroads?**

More facts are needed to answer this question. Mechanisms for alternative dispute resolution could be helpful.

**5. Should the State or Federal Government assume greater responsibility for safety at private grade crossings?**

There is a clear need for government action at both the state and federal levels to foster greater responsibility for safety at private crossings where the public is impacted. At a minimum, the FRA should address private crossings which are open to public usage and crossings along lines where passenger trains are operated. National standards consistent with the MUTCD should be created which address the unique operating characteristics of these private roads.

**6. Should there be nationwide standards for warning devices at private crossings, or for intersection design of new private grade crossings?**



Nationwide standards should be adopted for warning devices at private crossings and for intersection designs which are consistent with the MUTCD.

**7. How do we determine when a private crossing has a ‘public purpose’ and is subject to public use?**

Government has a responsibility to address safety for the traveling public. A private crossing should be considered to have a public use whenever passenger trains are operated over the line or when the public has access over the crossing.

**8. Should some crossings be categorized as ‘commercial crossings’ rather than as ‘private crossings’?**

Under New York State Railroad Law, crossings are categorized as public, if they existed as public roads over the crossing prior to 1897 or were designated by the Commissioner as public through the regulatory hearing process. All other crossings are private (farm, deeded, or agreement) crossings. Most commercially used crossings are subject to agreement between the railroad and property owner. There does not appear to be a need to create a new category of “commercial crossings.” The level of highway traffic using such a crossing, along with train speed and volumes, should dictate whether or not warning devices are required.

**9. Are there innovative traffic control treatments that could improve safety at private crossings on major rail corridors, including those on which passenger service is provided?**

Private crossings present unique operating characteristics that are not encountered at public crossings. Treatments are needed that can effectively restrict access over a private crossing and provide warning of an approaching train. New York State is preparing design standards that recognize the need for some custom systems to address specialized conditions, such as secure gate activation systems, impenetrable barriers and vehicle presence detection systems.

**10. Should the Department of Transportation request enactment of legislation to address private crossings? If so, what should it include?**

It is recommended that USDOT sponsor federal legislation to address private crossings patterned after New York State statutes. Consideration should also be given to cover all rail lines where the public could be impacted. In order to avoid pre-emption claims it is critical that federal statutes and regulations recognize and validate the jurisdiction of the states to address safety concerns related to all grade crossings, including those categorized as private.

**V. CLOSING**

NYSDOT requests that the FRA take steps to update the crossing inventory to create a complete, accurate, and accessible database of all private crossings, including the legal basis for the crossings. In addition, NYSDOT recommends that FRA help secure funding for minimal safety improvements on private crossings, and establish national standards for the installation and use of safety devices at private crossings. Resolving these interconnected issues will enable New York State to continue its efforts to improve safety on both public and private crossings.

## MEMORANDUM

**To:** Docket No. FRA-2005-23281

**From:** Kathy Shelton  
FRA Office of Chief Counsel

**Date:** August 14, 2007

**Re:** Summary of Meeting on Private Crossing Issues

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On July 17, 2007, FRA hosted a meeting to discuss private crossing issues with representatives of the railroad industry. The following individuals were in attendance at the meeting:

Douglas Werner, Burlington Northern Sante Fe Railway  
Stuart Schwartz, Norfolk Southern Corporation  
William Browder, Association of American Railroads  
Thomas Healey, Canadian National  
David Reeves, Kansas City Southern  
Grady Cothen, FRA  
Ronald Ries, FRA  
Miriam Kloepfel, FRA  
Kathy Shelton, FRA

During the meeting, participants discussed the wide-ranging variations in private crossings, from agricultural crossings to private commercial crossings, and the attendant difficulty in establishing a uniform policy to effectively address private crossing issues. The lack of extensive involvement in private crossing issues by State and local governments was also discussed.

Railroad representatives at the meeting shared the view that private highway-rail grade crossings do not benefit railroads, as they generally interfere with railroad operations and create litigation and maintenance-related burdens. However, the conversion of private crossings into public crossings can also impose a burden on railroads, especially when crossing conversions occur without any notification to, or input from, the affected railroad(s). Therefore, FRA was asked to facilitate communication between railroads and the communities they serve.

A number of railroad representatives also expressed interest in a uniform private crossing sign that could incorporate a stop message for motorists.

August 23, 2007

Docket Clerk  
U.S. DOT Dockets  
Room PL-401  
400 Seventh Street, SW  
Washington, DC 20590

Response to Request for Comments; FRA-2005-23281

To Whom It May Concern:

After reading the entire contents of the public docket on this topic, this concerned citizen feels compelled to submit several points for your consideration. As a matter of generic introduction, the writer has studied the railroad industry for over 30 years and worked for over 10 years in private service enterprise and 10 years with public transportation agencies.

The thoughts presented herein are intended to provide a balanced perspective on the issue. Comments are based upon a solid working knowledge of the FRA's inventory system and the FHWA's Section 130 requirements, as well as a good familiarity with the location-specific concerns facing railroad companies and public employees at highway-railroad grade crossings.

This contribution to the discussion is organized in the same order as the original FRA issues were presented, with the FRA questions reprinted in italics:

*FRA Issue: At-grade highway-rail crossings present inherent risks to users, including the railroad and its employees, and to other persons in the vicinity should a train derail into an occupied area or release hazardous materials. When passenger trains are involved, the risks are heightened. From the standpoint of public policy, how do we determine whether creation or continuation of a private crossing is justified?*

Public transportation policy and programs should not bear the cost and burden of determining conditions of access, use or establishment of crossing facilities that exist only to serve private interests. Instead, as necessary, the involved private entities should consult their own respective legal representation for the purpose of allowing existing property law and negotiation determine the outcome of whether or not private crossings are justified. Public policy should remain fixed on addressing the safety needs of all public highway-railroad crossings.

It is interesting to note that the same inherent risks to users of highway-rail crossings also exist at rail-rail crossings. While certainly lesser in number, those types of crossings surely present possible incidents of far greater magnitude – yet there is no demand for public policy or government oversight regarding creation or continuation of rail-rail crossings. Consequently, participants in this discussion should realize that the root issue here may not really be so much about ‘public safety’ as much as it is about resolving long-standing fundamental disagreements between private property owners. As such, any proposed changes to public safety policy should be very carefully considered as there are significant far-reaching consequences of introducing new policy related to grade crossing regulation.

*FRA Issue: Is the current assignment of responsibility for safety at private crossings effective? To what extent do risk management practices associated with insurance arrangements result in “regulation” of safety at private crossings?*

Regardless of the current assignment of responsibility for safety at private crossings, the motorist's decision-making process is the primary contributing factor in any car-train crash. Because trains cannot steer or stop, it is contingent upon road users to make intelligent judgments as to safe operation over railroad tracks.

Private property owners and railroads can assist motorists in making good decisions at grade crossings by installing appropriate warning devices and providing good crossing maintenance – but the bottom line is that ultimate responsibility still lies with the person behind the wheel. No amount of rule-making or legislation will ever change that simple fact.

Lacking familiarity with risk management practices associated with insurance arrangements, it is difficult to assess whether those practices may create an informal regulatory atmosphere.

*FRA Issue: How should improvement and/or maintenance costs associated with private crossings be allocated?*

All costs for private crossings should be borne proportionally by the private entity or entities that benefit from the use of the crossing on a case-by-case basis. This should be spelled out in the private crossing agreement.

*FRA Issue: Is there a need for alternative dispute resolution mechanisms to handle disputes that may arise between private crossing owners and the railroads?*

Disputes should be settled through the use of existing mechanisms such as direct negotiation, impartial third-party arbitrators or the court system. If enough documented evidence exists to suggest that current practices are unsatisfactory to all parties, it may be advisable to develop – in consultation with appropriate legal counsel – a new procedure that would be mutually acceptable to advocates representing private property owners and the railroad industry.

*FRA Issue: Should the State or Federal government assume greater responsibility for safety at private crossings?*

If private crossing safety becomes subject to public agency jurisdiction, it is reasonable to predict that the sheer volume and nature of private crossing data management will create an immense workload for public agencies, not to mention the myriad of complications that would arise, such as but not limited to the following issues:

1. Many private crossings are actually inside large industrial or manufacturing facilities. Who will be responsible for funding and coordinating the extensive and often confidential safety training required to enable public employees to enter said facilities for the purpose of crossing regulation? Will there be any concern on the part of private industry regarding proprietary or trade secret issues that would be unduly exposed by access to certain facilities?
2. Many private crossings are located well within private property, such as in farmed fields, on grazing land or several hundred feet down secluded driveways. What are the location-specific risks or liabilities to be faced by public employees entering upon private property for the purpose of crossing regulation, and how will these be mitigated?
3. If access to private crossings is currently restricted by gates, will private property owners provide keys and/or timely cooperation to public agencies for the purpose of

- enabling crossing inspection? For adequate review of sight distances on crossing approaches, will private land owners allow public employees free access to all necessary areas of their property?
4. Will private property owners be willing to remove vegetation or other obstacles that may restrict view of the private crossing; and if not, what authority will the public agency have to enforce safety recommendations affecting private property?
  5. A review of the FRA database shows that most states have a volume of private crossings that is roughly 50-75% the volume of public crossings. However, while public crossings are spread through a limited number of public road agencies having permanent contact data (on the order of a few hundred per state), most private crossings will be individually owned and subject to frequent change of ownership (on the order of thousands per state). Without added funding and personnel, how will the states be expected to handle the addition, review and management of what can reasonably be predicted as thousands of new crossing contacts?
  6. With so many public crossings still in need of safety enhancements, how will the state or federal government be able to justify any expenditure of time or funding to enhance private property? Won't there be a public outcry the moment there is a fatality at an unimproved public crossing, if that crossing remained unimproved due to the reallocation of resources toward private crossings?

Given that each of these issues would seem to have expensive, if not impossible or highly impractical solutions, it would seem inadvisable for the state or federal government to extend their respective jurisdictions to private crossings.

*FRA Issue: Should there be Nationwide standards for warning devices at private crossings, or for intersection design of new private grade crossings?*

For continuity and consistency of motorist information, existing national standards for traffic control devices on public roads should be used as a guideline for the private crossing issue. The same could be said for the design of the crossing surfaces and roadway approaches.

*FRA Issue: How do we determine when a private crossing has a 'public purpose' and is subject to public use?*

There may currently be crossings having a 'public purpose' subject to 'public use' incorrectly listed as 'private' in the national inventory. Some of these 'public purpose-public use' crossings may include driveways to local, state or federal government office facilities, public park entrances or public boat launches, national forest roads, and roads on college or university campuses that are recognized as having public agency status. In all cases, these types of crossings exist to allow the general public to directly access some type of publicly-funded facility directly from a public road. These types of so-called 'private crossings' should be re-classified as public.

Other crossings listed as 'private' in the national inventory may also have 'public use' but the use is not for a 'public purpose.' For example, entrances to retail establishments or other private business property may be accessible to the general public, but the use of said crossings would be for the benefit of the private property owner. Absent the property owner's desire to generate sales and profit, the crossing would not exist – therefore it would seem clear that this type of crossing should remain classified as private.

*FRA Issue: Should some crossings be classified as 'commercial crossings' rather than as private crossings.*

No. The current FRA inventory form already contains a commercial crossing classification as a type of private crossing. Due to the fact that a commercial operation takes place to generate income for private gain, it would seem logical that the expenses required to allow public access to the facility would be the burden of private business.

If the intent of creating a 'commercial crossing' classification is to establish these types of crossings as somehow being quasi-public or 'public use' crossings eligible for public regulation or funding, this would appear to be misguided. The reason for this judgment is that even though the public may use these crossings, they do so for the sole purpose of frequenting commercial property wherein the private property owner stands to gain the benefit of the public use. Therefore, it would stand to reason that the private party who would benefit from the public use of the crossing should be responsible for the costs associated with the crossing, and the crossing should remain classified as private.

For example, if there was a river or a stream to cross in order to gain access to a private commercial operation, it would be contingent on the private business to adequately resolve that access issue. Any subsequent bridge would not be a 'public' bridge, nor would it be eligible for public inspection or funding. The construction, maintenance, safety, insurance and liability elements of the bridge are quite simply a cost of doing business when deciding to establish a facility on the other side of a previously existing obstacle.

It would seem that the same logic should apply to the matter of a private railroad crossing.

*FRA Issue: Are there innovative traffic control treatments that could improve safety at private crossings on major rail corridors, including those on which passenger service is provided?*

Full roadway gates, barrier gates, raised median dividers or other channelization and barrier-type devices would appear to be reasonable methods that could be used to contain traffic at crossings of high-volume/high-speed/passenger lines.

*FRA Issue: Should the Department of Transportation request enactment of legislation to address private crossings? If so, what should it include?*

No. If anything, public policy and legislation should be strengthened in such a manner that enables the states to increase their efforts toward improving safety at public crossings. However, if there is any legislation to address private crossings, it should direct private crossing owners to use as a guideline the national standards established in current highway design manuals governing construction and traffic control.

### **Summary Statement**

While the FRA initiative to better research and clarify private crossing issues is to be commended, this writer is greatly concerned by the many complications and implications of adding private crossings to the jurisdiction of state and federal agencies. If anything of public benefit is to come of this effort, perhaps the best result would be to establish standards that clearly define the difference between public and private crossings and to develop a set of guidelines for the review, re-classification and subsequent treatment of any public crossings which may be omitted from or improperly categorized in the current national public crossing inventory.

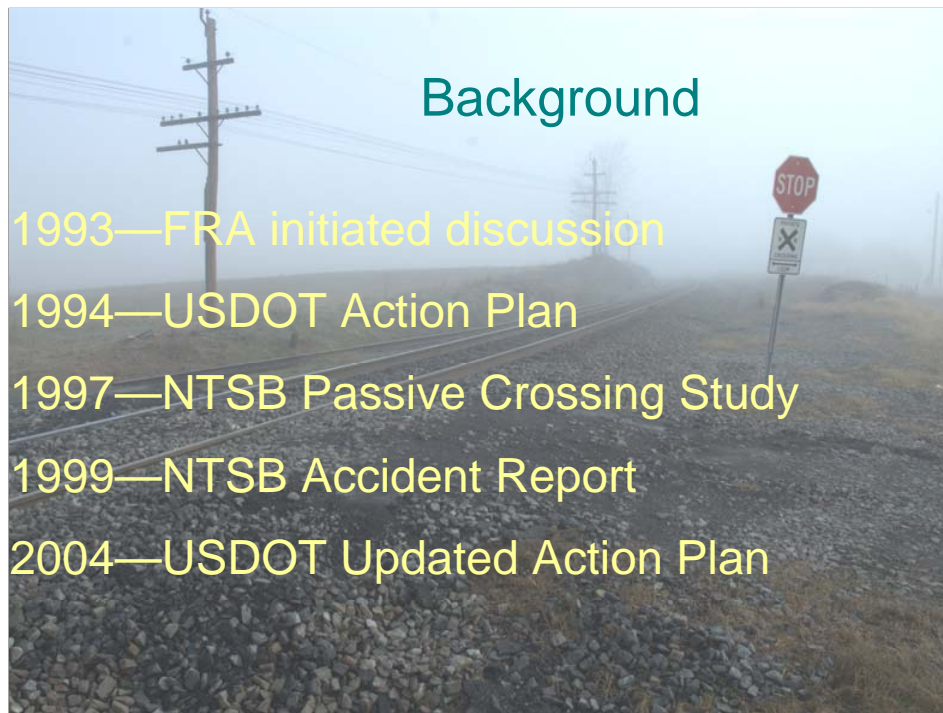
Thank you for allowing public contribution on this important subject.

# Safety at Private Highway- Railroad Grade Crossings

Federal Railroad Administration  
Safety Inquiry

Good morning, Ladies and Gentlemen. Thank you for coming.





## Background

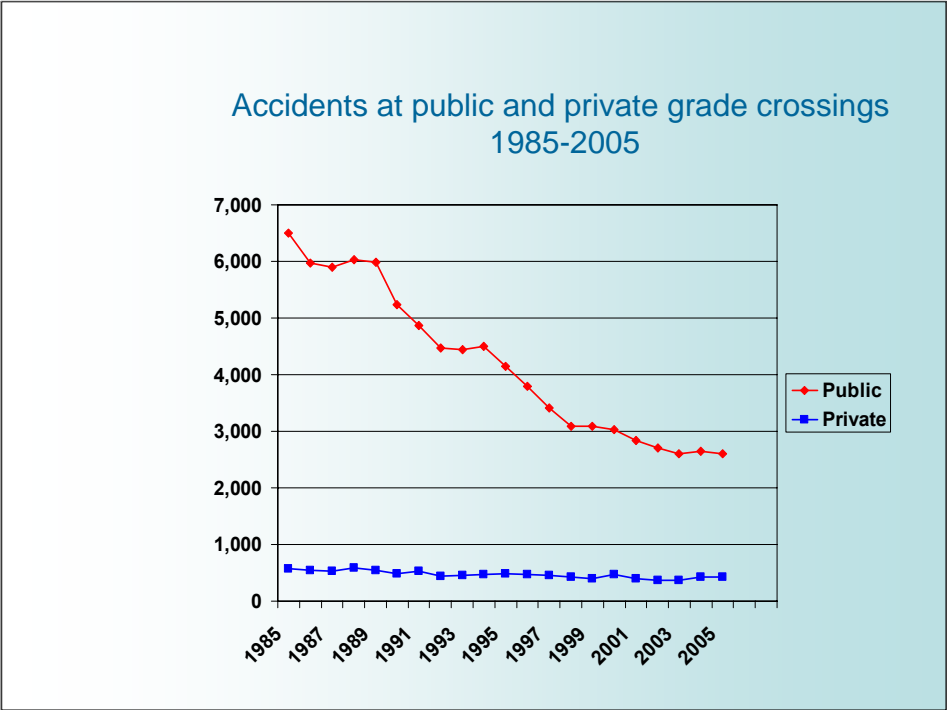
- 1993—FRA initiated discussion
- 1994—USDOT Action Plan
- 1997—NTSB Passive Crossing Study
- 1999—NTSB Accident Report
- 2004—USDOT Updated Action Plan

Private crossing safety has for some time been a matter of concern to the US Department of Transportation and to other Federal Agencies.

- In 1993, the FRA hosted an open meeting to initiate industry-wide discussions.
- In its 1994 Rail-Highway Safety Action Plan, the USDOT proposed to develop national minimum standards for private crossings.
- In its 1997 study on Safety at Passive Grade Crossings, the NTSB highlighted the need for some system to improve private crossing safety, and recommended that the USDOT, in conjunction with the States, determine governmental oversight responsibility for safety at private grade crossings.
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As you can see, regardless of the geographic region, private crossings constitute a significant percentage of all at-grade crossings. The total count Nationwide is about 94,000.



Although accidents at public crossings have declined considerably over the past 20 years (declining by 1/3 over the past decade alone), the number of accidents at private crossings has remained comparatively stable, declining only 10 percent over the past decade.

In most years, the number of fatalities occurring in accidents at private crossings exceeded the number of on-duty deaths among railroad employees in all rail operations.

The following are a few examples:

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The private road at the accident crossing is used by an excavating company and by two residences, and on average fewer than 30 highway vehicles and a dozen trains, 8 of them Amtrak trains, traverse the crossing daily. It is estimated that the crossing was created about 1948, and there is no record of any maintenance contract between the business owner and Norfolk Southern Railway, the track owner.



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The road leading to this crossing is a county road, but county maintenance ends shortly before the crossing and the private road that extends beyond the crossing dead-ends after serving 11 residences. About 60 trains daily traverse this crossing. It is not known when this crossing was created, and no maintenance contract has been located for this crossing.



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This crossing serves two commercial facilities to which there is no other access. Roughly 28 trains and fewer than 30 highway vehicles use this crossing daily. The crossing is maintained by the CN, but there is no formal agreement.

Note: about 6 months prior to this accident (December 19, 2005), another accident occurred at this crossing. The truckdriver in the December accident sustained fatal injuries.

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The data for public crossings are typically updated more often than this.

U.S. DOT CROSSING INVENTORY FORM  
DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION FHWA OMB Control No. 2120-0047 Page 12 (09/01)

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**PAGE 2**

**Part III: Traffic Control Device Information**

1.10 Sign or Signs  
 Check if Control

1.11 Type of Warning Device or Crossing Sign (specify number of each)  
 1.11a. Variable Message Sign (VMS)  1.11b. Highway Sign (per 21 CFR 634.10)  1.11c. RR Advance Warning Sign (21 CFR 634.10)  1.11d. Other Sign (specify 21 CFR 634.10)  Yes  No  Unknown

1.12 Pressure Sensitive  
 Reflective  RR Sign Symbols  None

1.13 Other Sign (specify 21 CFR 634.10) \_\_\_\_\_  
 Number \_\_\_\_\_ Sign Type (see 21 CFR 634.10) \_\_\_\_\_  
 Material \_\_\_\_\_ Sign Type (see 21 CFR 634.10) \_\_\_\_\_

1.14 Type of Warning Device or Crossing - Train Advance Device (specify number of each)  
 1.14a. Gown  1.14b. Flashing Light  1.14c. Chime and/or Bell  1.14d. Other (specify number) \_\_\_\_\_  
 1.14e. Number of Warning Light Pairs \_\_\_\_\_  
 1.14f. Number of Chime/Bell \_\_\_\_\_  
 1.14g. Number of Other \_\_\_\_\_

1.15 Other Advance Warning Device (specify) \_\_\_\_\_  
 Number \_\_\_\_\_ Sign Type (see 21 CFR 634.10) \_\_\_\_\_  
 Material \_\_\_\_\_ Sign Type (see 21 CFR 634.10) \_\_\_\_\_

1.16 Characteristics of Warning Device  
 All Approaches  One Approach  None

1.17 Other Characteristics  
 Advance Warning Sign  RR-APD  Sign Equipped with Train Signal?  Yes  No  N/A  
 Advance Device  None  Yes  No  N/A

1.18 Retained For Future Use  Yes  No  N/A

**Part IV: Physical Characteristics**

1.19 Type of Structure  
 Open Span  Box Girder  Concrete  Submerged  Saturated

1.20 Number of Traffic Lanes  
 1.20a. Number of Traffic Lanes (Specify) \_\_\_\_\_  
 1.20b. Number of Traffic Lanes (Specify) \_\_\_\_\_  
 Yes  No  N/A

1.21 Clearing Structure On Each Side  
 1. Taper  2. Asphalt  3. Asphalt and Flange  4. Concrete  5. Concrete and Rubber  
 6. Rubber  7. None  8. Other (Specify) \_\_\_\_\_

1.22 Other Traffic Sign Cross or Signal  
 Yes  No  N/A

1.23 Structure Type (Specify)  
 Yes  No  N/A

1.24 Structure Material (Specify)  
 Yes  No  N/A

1.25 Structure Retained For Future Use  
 Yes  No  N/A

**Part V: Highway Information**

1.26 Highway System  
 Interstate  Federal Aid (No I-95)  State  Local  Other (Specify) \_\_\_\_\_

1.27 Functional Classification  
 Interstate  Major Road  Other (Specify) \_\_\_\_\_

1.28 Average Daily Traffic (ADT)  
 Year \_\_\_\_\_ ADT \_\_\_\_\_

1.29 Average Number of Daily Buses  
 One Crossing per School Day \_\_\_\_\_

1.30 Highway System  
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1.32 Average Daily Traffic (ADT)  
 Year \_\_\_\_\_ ADT \_\_\_\_\_

1.33 Average Number of Daily Buses  
 One Crossing per School Day \_\_\_\_\_

1.34 Other Information  
 Remarks (Maximum 400 characters): \_\_\_\_\_

MUST COMPLETE REMAINDER OF FORM FOR PUBLIC VEHICLE CROSSINGS AT GRADE

**Part II: Railroad Information**

1.1 Name of Railroad \_\_\_\_\_  
 1.2 Type of Crossing \_\_\_\_\_  
 1.3 Track Designation (Specify) \_\_\_\_\_  
 1.4 Check if Low Clearance Structure  Yes  No  N/A

1.5 Speed of Crossing  
 1.5a. Maximum Train Speed (mph) \_\_\_\_\_  
 1.5b. Typical Speed Range Over Crossing (mph) \_\_\_\_\_

1.6 Type of Structure of Tracks  
 Yes  No  N/A

1.7 Does Advance RR Sign Operate (Specify) \_\_\_\_\_  
 Yes  No  N/A

1.8 Does Advance RR Sign Operate (Specify) \_\_\_\_\_  
 Yes  No  N/A

PAGE 1 OF 2

This is a shot of the form on which crossing data are collected for the National Inventory. Almost all the data elements are required for public crossings. For private crossings, however, only the sections I have shaded are collected.



## Data Collection Comparison

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Active Warning Devices	✓	✓ <i>(partial)</i>
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As a result, even when the private crossing record is up-to-date, potentially useful data are not collected. This slide shows a small sample of the data collection differences.

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- VA: State forbids creating new private at-grade crossings
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According to the FRA's 2002 Compilation of State Laws and Regulations affecting Highway-Rail Grade Crossings, the States' approaches to private crossing safety are highly varied. Take, for example, these examples of the extent of control held over the creation or closure of private crossings.

## State Responsibilities

- FL: crossbucks required at all crossings, signs must comply with MUTCD
- SC: private crossings to be equipped in same way as public crossings

Here are some examples of the degree to which traffic control devices are standardized at private crossings.

## State Responsibilities

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According to FRA's 2002 Compilation of State Laws and Regulations Affecting Highway-Railroad Grade Crossings, more than half the States have no laws or regulations related to private crossings.

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- 49 C.F.R. §234 –signal system inspection, testing, and maintenance
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- 49 C.F.R. §224 – freight car reflectorization
  - Under 25% of all crossing accidents
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  - Applies to public crossings

The Federal Government, in the guise of various U.S. DOT agencies, does offer some regulations or guidance documents that may touch on safety at private crossings. As you can see in this sample, however, none of these really covers a significant portion of the Nation's private crossings.

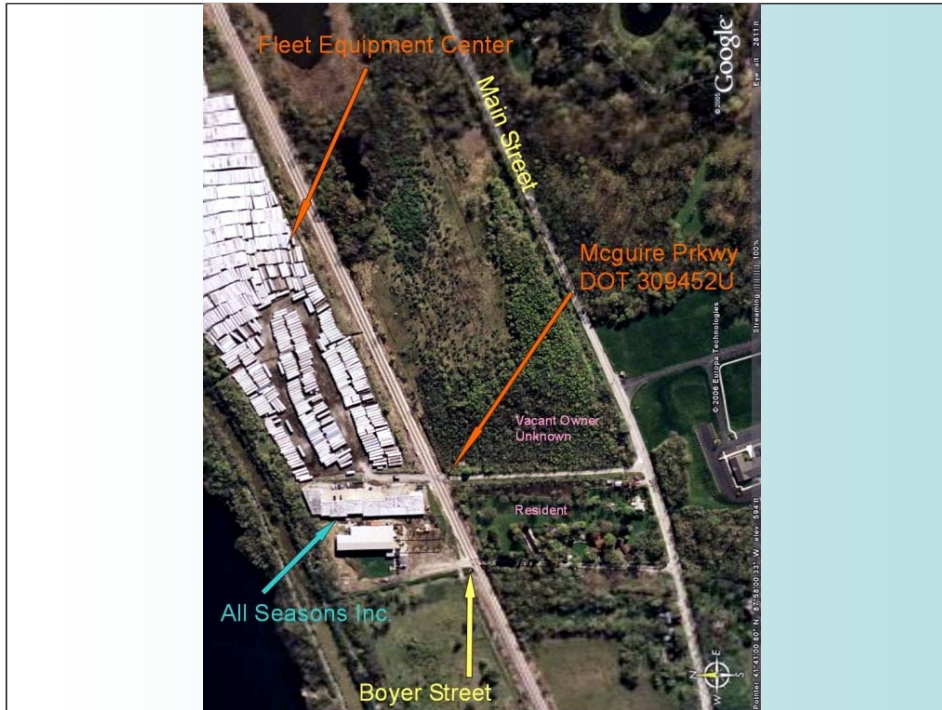
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In fact, there is no Federal regulation or guidance that promotes safety at private grade crossings by specifically or uniformly addressing the special issues presented at private crossings.



Some private crossings may be used only seasonally, like certain farm crossings used only for agricultural equipment movements, or they may be used only for routine personal use, like crossings that serve residences.



Other private crossings, such as this industrial access crossing, are used extensively for private business purposes by employees, contractors, and suppliers. In still other cases, they may be used very heavily by the public to enter commercial facilities.

This slide also illustrates that in some cases, there is no alternative access provided the private property owner.



## Legal Status

- Ownership of fee simple
- Documented easements
- Prescriptive easements
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- Verbal licenses

The rights assigned to the private crossing holders vary greatly

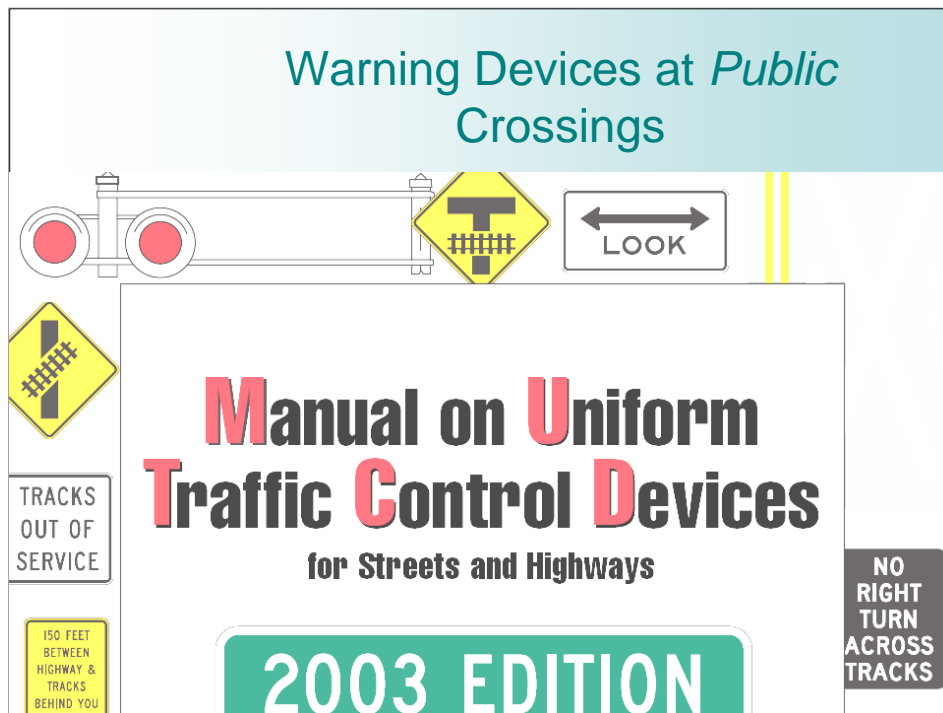
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## Legal Status

- Insurance policies
- Contracts

Railroads may require the crossing holders to purchase insurance or provide some other protection in the event of a collision at the crossing.

Contracts or other legal documents may further define responsibilities, such as maintenance of the crossing surface, or providing notifications under stated conditions.



The conformation and use of signs, signals, pavement markings, and any other traffic control devices placed at public crossings generally conform to the guidance provided in the Manual on Uniform Traffic Control Devices.

## Warning Devices at Private Crossings



In most States, this is not true of private crossings.







The arrangement of private crossing signs can be highly individual.













And sign maintenance may be sketchy,



Or almost nonexistent.

## Request for Comments

- Creation or continuation criteria
- Public use definition
- Allocation of responsibilities
- Alternative dispute resolution
- Commercial crossings

The FRA solicits discussion and comments on all areas of safety at private crossings, but particularly encourages discussion on the following topics:

At-grade highway-rail crossings present an inherent risk to users, including the railroad and its employees, as well as to other persons in the vicinity should a train derail into an occupied area or release hazardous materials. From the standpoint of public policy, how do we determine whether creation or continuation of a private crossing is justified?

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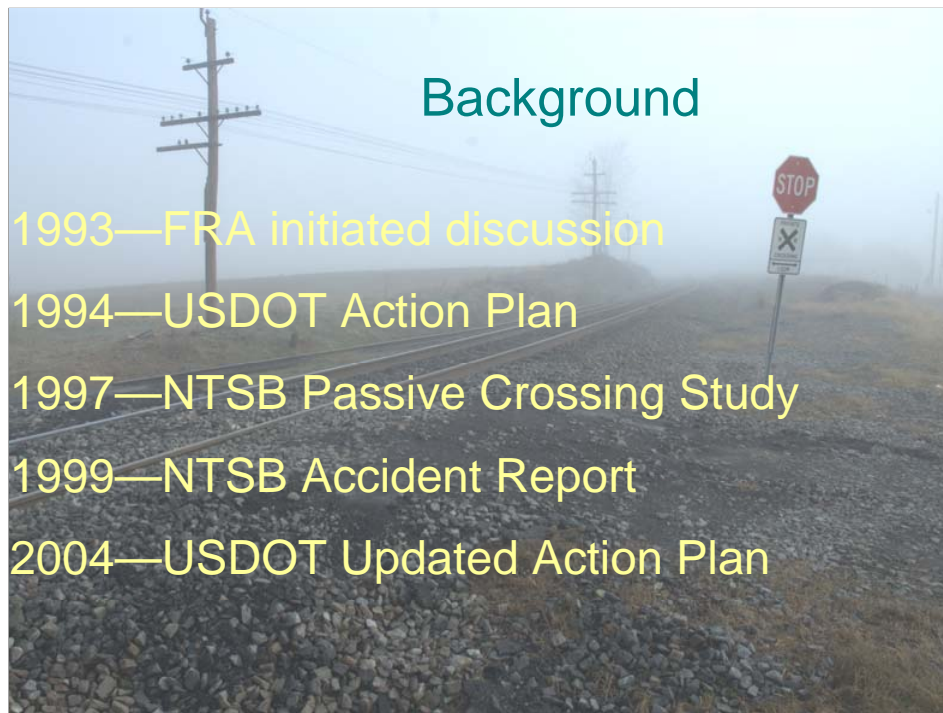
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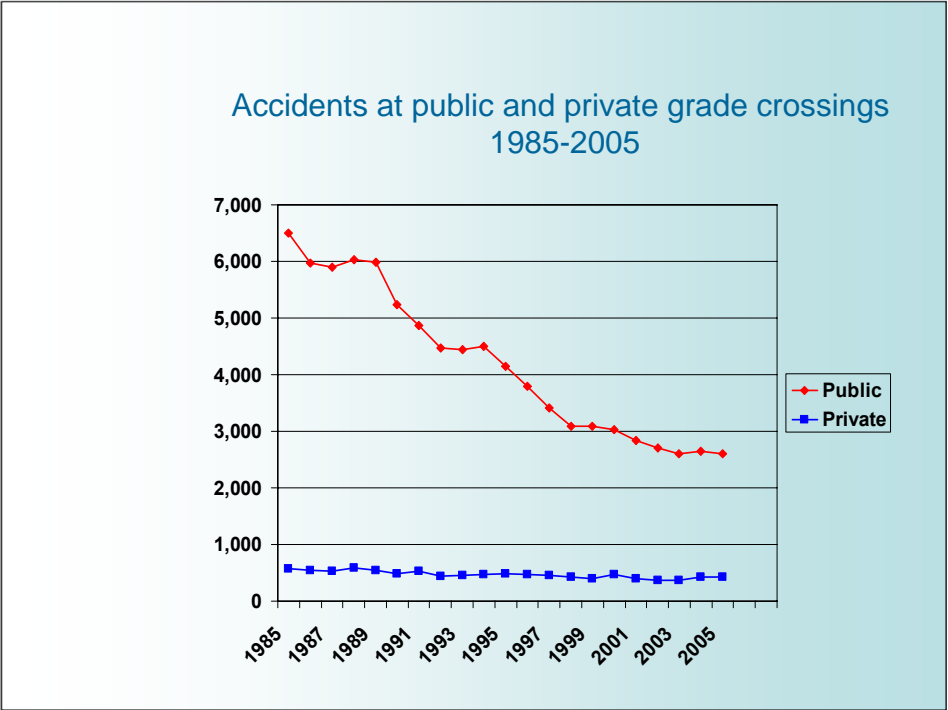


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## State Responsibilities

- American Association of State Highway and Transportation Officials (AASHTO)
  - Standing Committee on Rail Transportation

SCORT provides an arena whereby member States and the railroads can exchange technical information, review existing legislation and regulations, and propose changed or new legislation or regulations.

Currently SCORT has adopted a resolution on Railroad Safety Improvement and Enforcement calling for research and development into improved and lower-cost technologies for warning systems. The resolution also believes that any future 'comprehensive national transportation program must continue to provide funds for consolidating, separating, or otherwise protecting railroad-highway grade crossings'.

Neither the committee's policy statements nor its resolutions make any overt distinction between public and private crossings, but it should be remembered that the majority of members represent States. (unlikely to reach beyond current extent of jurisdictions)

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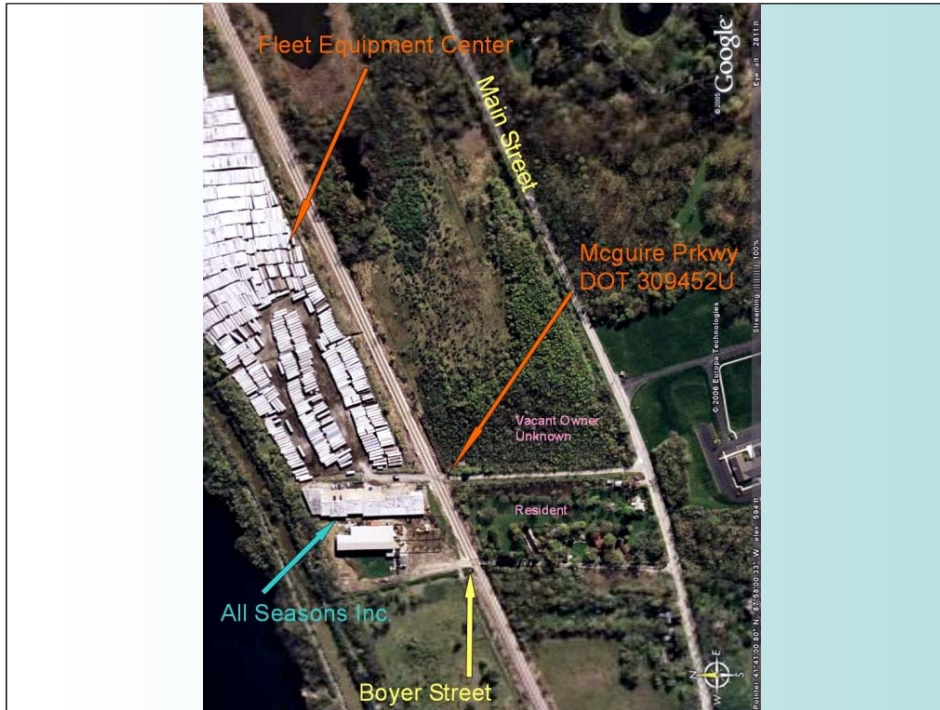
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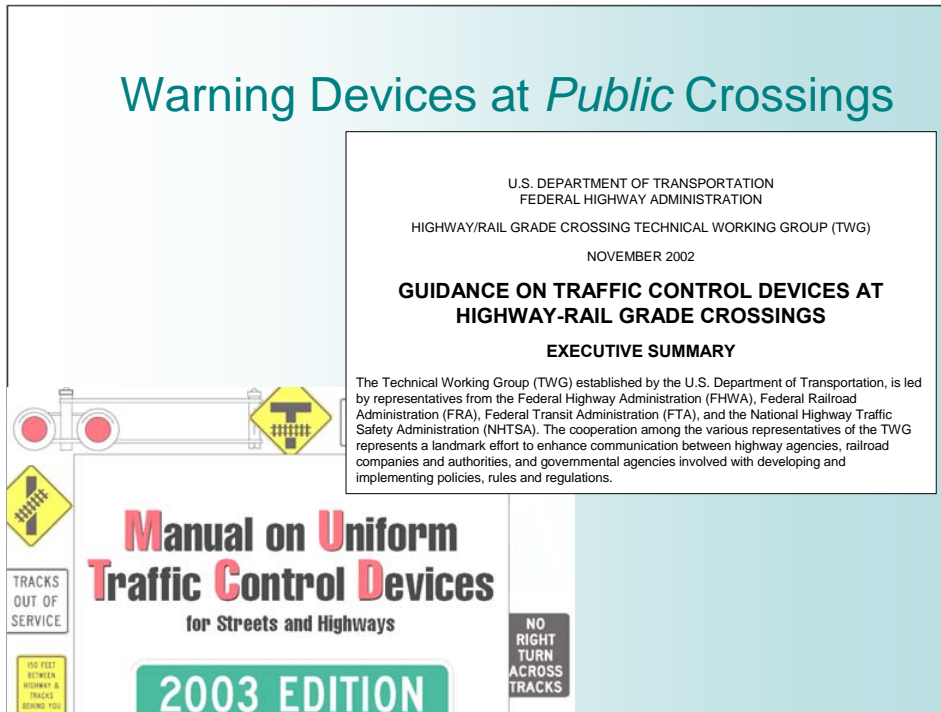
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# Warning Devices at *Public Crossings*



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## Warning Devices at Private Crossings



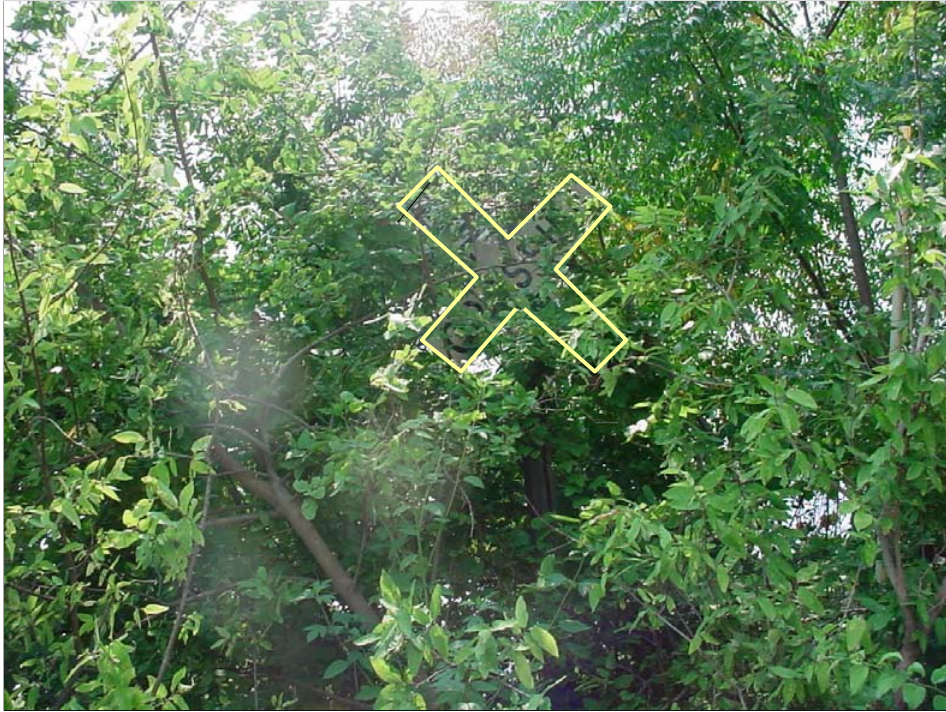
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# Safety at Private Highway- Railroad Grade Crossings

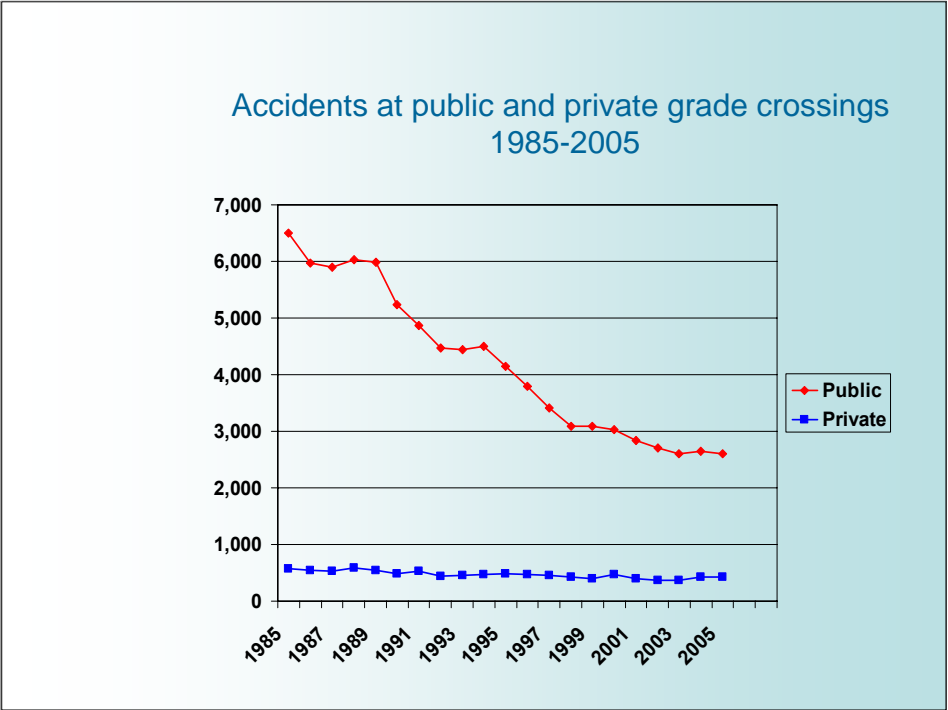
Federal Railroad Administration  
Safety Inquiry

Good morning, Ladies and Gentlemen. Thank you for coming.



FRA Region	All Crossings	Private Crossing Percentage
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Total	241,608	39%

As you can see, regardless of the geographic region, private crossings constitute a significant percentage of all at-grade crossings. The total count Nationwide is about 94,000.



Although accidents at public crossings have declined considerably over the past 20 years (declining by 1/3 over the past decade alone), the number of accidents at private crossings has remained comparatively stable, declining only 10 percent over the past decade.

In most years, the number of fatalities occurring in accidents at private crossings exceeded the number of on-duty deaths among railroad employees in all rail operations.

## National Inventory

- 32 % of the private crossing records have been updated since 2001
- 21 % of the private crossing records have *never* been updated

The FRA maintains a national inventory of all crossings, public, private, or pedestrian, at grade or grade separated. The data are used by many State, Federal, or private organizations for research, or for resource allocation (determining which crossings are most in need of improvements). It is updated by the States and by the railroads on a voluntary, not mandatory basis.

As you can see, only about 1/3 of the records for private crossings have been updated within the past five years, and a significant portion of the records have never been updated. Analysis on data of this quality must necessarily be somewhat tentative.

The data for public crossings are typically updated more often than this.



## Data Collection Comparison

Data Item	Public Crossing	Private Crossing
Train counts	✓	✗
Active Warning Devices	✓	✓ <i>(partial)</i>
Number of highway lanes	✓	✗
AADT	✓	✗

As a result, even when the private crossing record is up-to-date, potentially useful data are not collected. This slide shows a small sample of the data collection differences.

## State responsibilities

- VA: State forbids creating new private at-grade crossings
- NJ, OK: railroad must provide and maintain private crossings, when required
- RI: State may close private crossings

According to the FRA's 2002 Compilation of State Laws and Regulations affecting Highway-Rail Grade Crossings, the States' approaches to private crossing safety are highly varied. Take, for example, these examples of the extent of control held over the creation or closure of private crossings.

## State Responsibilities

- FL: crossbucks required at all crossings, signs must comply with MUTCD
- SC: private crossings to be equipped in same way as public crossings

Here are some examples of the degree to which traffic control devices are standardized at private crossings.

## State Responsibilities

- 28 States have no private crossing statutes

According to FRA's 2002 Compilation of State Laws and Regulations Affecting Highway-Railroad Grade Crossings, more than half the States have no laws or regulations related to private crossings.



## State Responsibilities

- American Association of State Highway and Transportation Officials (AASHTO)
  - Standing Committee on Rail Transportation

SCORT provides an arena whereby member States and the railroads can exchange technical information, review existing legislation and regulations, and propose changed or new legislation or regulations.

Currently SCORT has adopted a resolution on Railroad Safety Improvement and Enforcement calling for research and development into improved and lower-cost technologies for warning systems. The resolution also believes that any future 'comprehensive national transportation program must continue to provide funds for consolidating, separating, or otherwise protecting railroad-highway grade crossings'.

Neither the committee's policy statements nor its resolutions make any overt distinction between public and private crossings, but it should be remembered that the majority of members represent States. (unlikely to reach beyond current extent of jurisdictions)

## Federal Responsibilities

- 49 C.F.R. §234 –signal system inspection, testing, and maintenance
  - About 1% of all private crossings
- 49 C.F.R. §224 – freight car reflectorization
  - Under 25% of all crossing accidents
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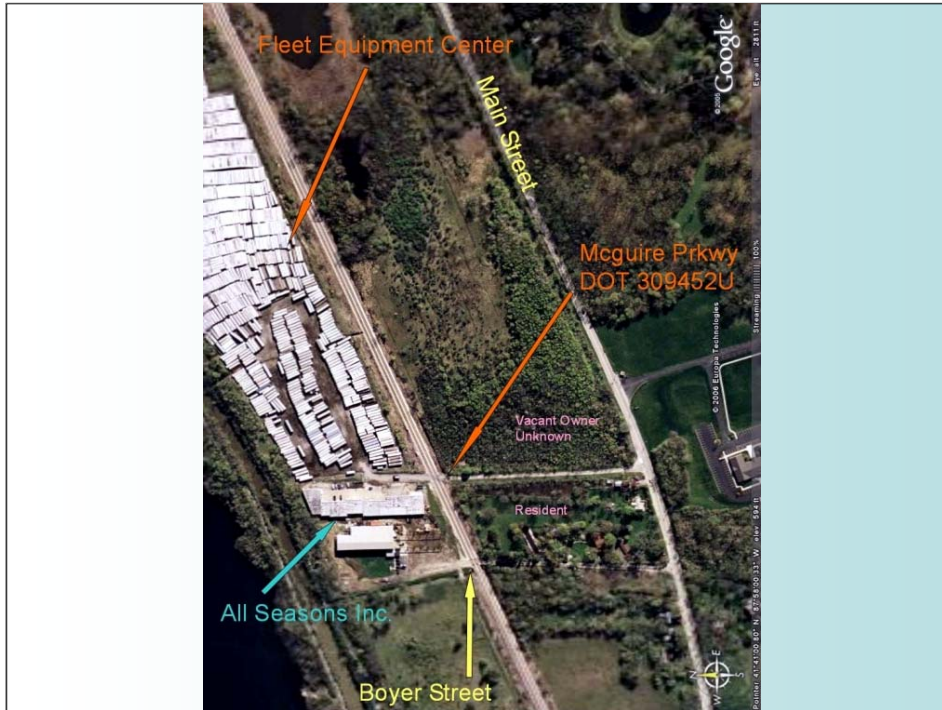
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In fact, there is no Federal regulation or guidance that promotes safety at private grade crossings by specifically or uniformly addressing the special issues presented at private crossings.



Some private crossings may be used only seasonally, like certain farm crossings used only for agricultural equipment movements, or they may be used only for routine personal use, like crossings that serve residences.



Other private crossings, such as this industrial access crossing, are used extensively for private business purposes by employees, contractors, and suppliers. In still other cases, they may be used very heavily by the public to enter commercial facilities.

This slide also illustrates that in some cases, there is no alternative access provided the private property owner.

## Legal Status

- Ownership of fee simple
- Documented easements
- Prescriptive easements
- Documented licenses
- Verbal licenses

The rights assigned to the private crossing holders vary greatly

An holder of the right (or privilege) to cross may hold outright ownership of the underlying property, or have a documented easement over the railroad property. Where it is recognized, the holder may have a prescriptive easement (squatter's rights). There may be a documented license under contract, or maybe only a verbal license subject to revocation without notice.

## Legal Status

- Insurance policies
- Contracts

Railroads may require the crossing holders to purchase insurance or provide some other protection in the event of a collision at the crossing.

Contracts or other legal documents may further define responsibilities, such as maintenance of the crossing surface, or providing notifications under stated conditions.

## Request for Comments

- Creation or continuation criteria
- Public use definition
- Allocation of responsibilities
- Alternative dispute resolution
- Commercial crossings

The FRA solicits discussion and comments on all areas of safety at private crossings, but particularly encourages discussion on the following topics:

At-grade highway-rail crossings present an inherent risk to users, including the railroad and its employees, as well as to other persons in the vicinity should a train derail into an occupied area or release hazardous materials. From the standpoint of public policy, how do we determine whether creation or continuation of a private crossing is justified?

How do we determine when a private crossing has a public purpose, and is subject to public use?

How should improvement or maintenance responsibilities be allocated?

Is there a need for alternative dispute mechanisms to handle disputes between private crossing owners and railroads?

Should some crossings be categorized as commercial crossings, rather than as private crossings?



## Request for Comments

- Nationwide standards
- Innovative warning devices
- Safety responsibility assignment
- Increased State and Federal involvement
- Legislation

Should there be Nationwide standards for warning devices at private crossings, or for intersection design for newly created private crossings?

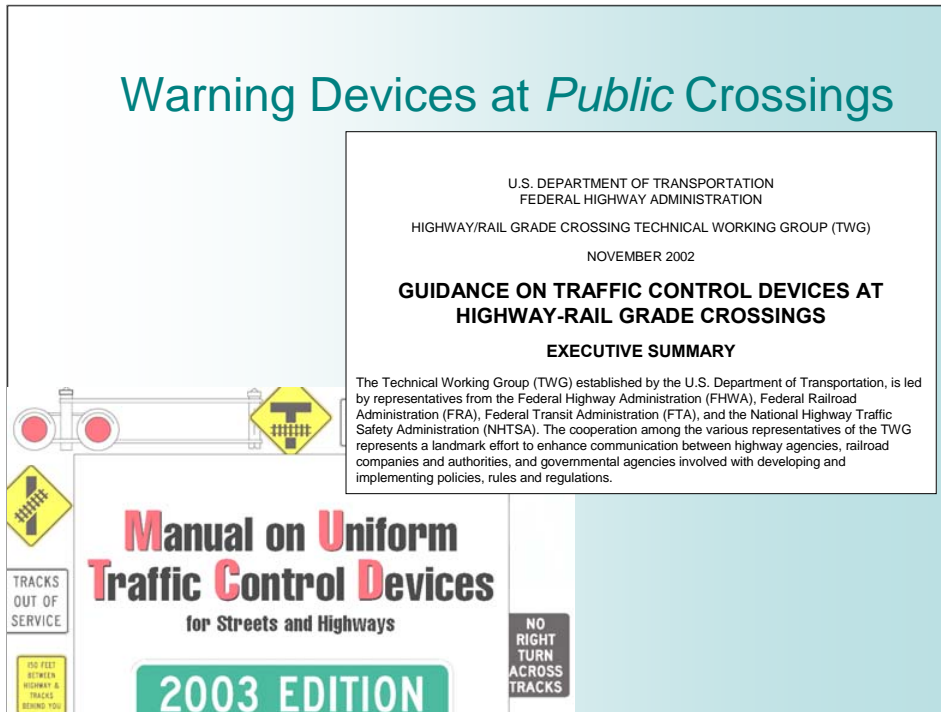
Are there innovative traffic control devices that could improve safety at private crossings on major rail corridors, including those on which passenger service is provided?

Is the current assignment of responsibility for safety at private crossings effective? Do risk management practices associated with insurance arrangements result in 'regulation' of safety at private crossings?

Should the State and Federal governments cooperatively work to determine responsibility and to provide oversight?

Should the USDOT request enactment of legislation to address private crossings? If so, what should it include?

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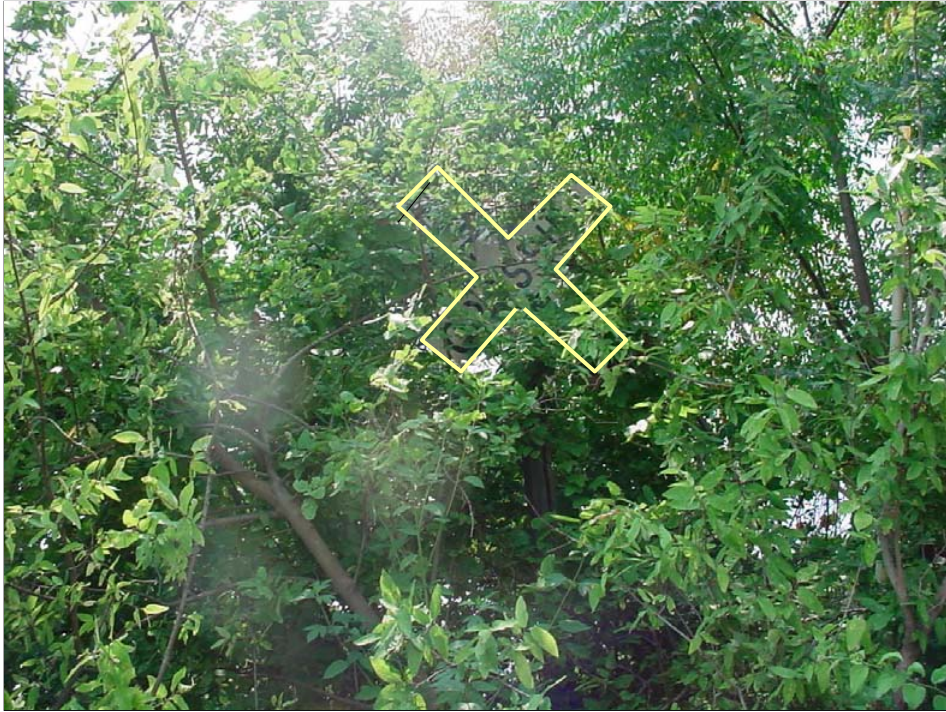
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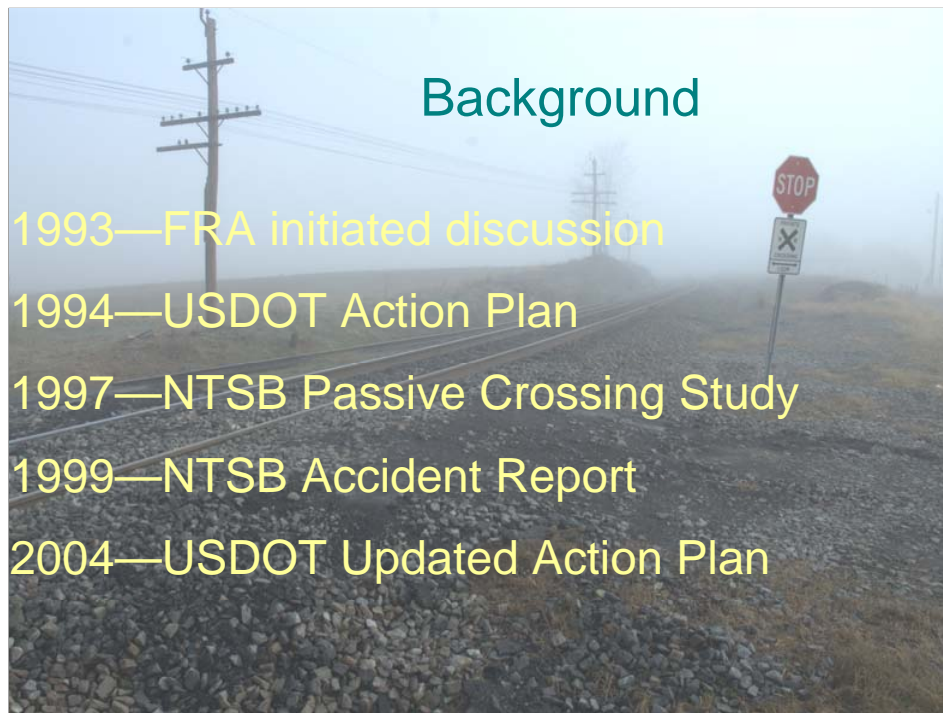
- U.S. DOT Docket Management System
  - <http://dms.dot.gov/>
  - Docket number FRA-2005-23281

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# Safety at Private Highway- Railroad Grade Crossings

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Private crossing safety has for some time been a matter of concern to the US Department of Transportation and to other Federal Agencies.

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- In 2004, the USDOT published an updated Action Plan, in which the FRA committed to leading an effort to define responsibility for safety at private crossings. Today's meeting is a vital part of this effort.

## Jackson, MI



About 1 pm on May 30, 2006, Amtrak train no. 350 struck an empty gravel truck at a private highway-railroad grade crossing near Jackson, Michigan. The train was traveling about 74 mph with cab car 90218 in the lead when the truck entered the crossing in front of the train. One train crewmember and 15 train passengers received minor injuries in the accident; the truckdriver sustained fatal injuries.

The private road at the accident crossing is used by an excavating company and by two residences, and on average fewer than 30 highway vehicles and a dozen trains, 8 of them Amtrak trains, traverse the crossing daily. It is estimated that the crossing was created about 1948, and there is no record of any maintenance contract between the business owner and Norfolk Southern Railway, the track owner.



About 4:40 p.m. on July 3, 2006, southbound Amtrak train A507-03 struck a passenger vehicle at a private crossing near Castle Rock, Washington. According to the Amtrak engineer, the accident occurred when the motorist entered the crossing after a northbound UP train cleared it. Traincrew and train passengers sustained no injuries, but all four motor vehicle occupants sustained fatal injuries.

The road leading to this crossing is a county road, but county maintenance ends shortly before the crossing and the private road that extends beyond the crossing dead-ends after serving 11 residences. About 60 trains daily traverse this crossing. It is not known when this crossing was created, and no maintenance contract has been located for this crossing.





About 7 p.m. (6:52) on June 21, 2006, Metra Train No. 921, traveling south at a recorded speed of 79 mph, struck a truck trailer traversing a private grade crossing near Lemont, Illinois. A piece of the trailer became wedged under the snow pilot of the locomotive and the locomotive derailed at the crossing. The driver of the tractor/trailer was not injured. There were 170 passengers aboard the train, five passengers claimed minor injuries and were treated and released, no train crew members reported any injury.

This crossing serves two commercial facilities to which there is no other access. Roughly 28 trains and fewer than 30 highway vehicles use this crossing daily. The crossing is maintained by the CN, but there is no formal agreement.

Note: about 6 months prior to this accident (December 19, 2005), another accident occurred at this crossing. The truckdriver in the December accident sustained fatal injuries.

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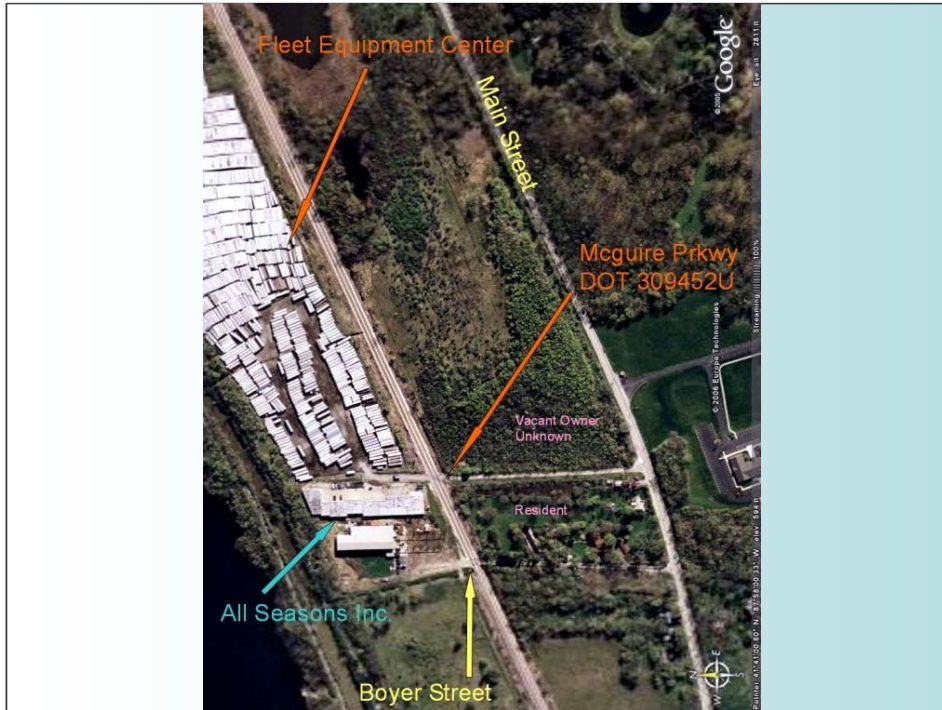
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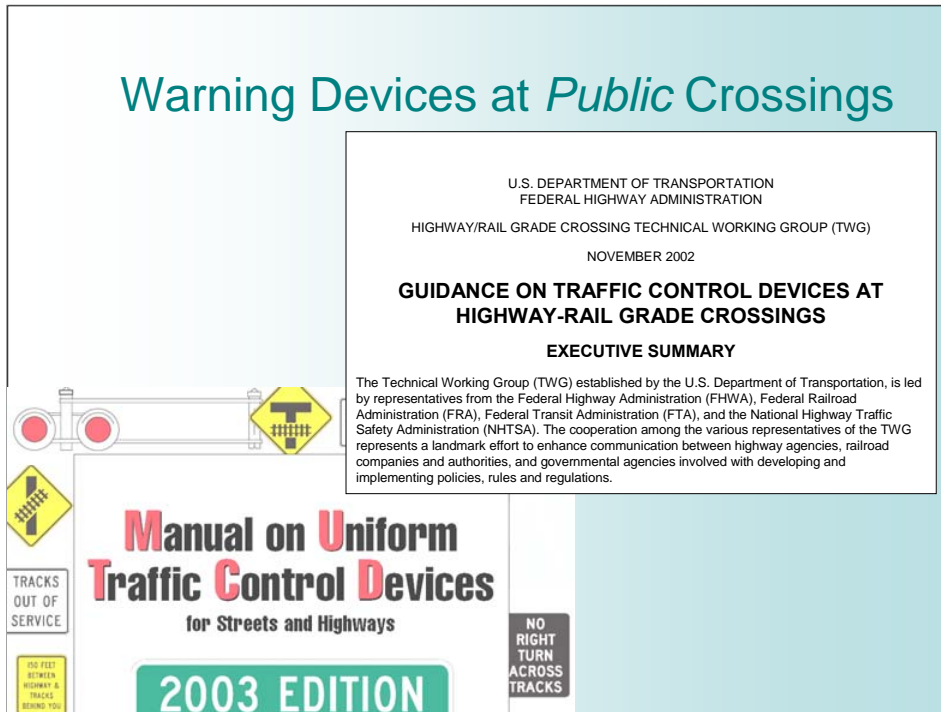
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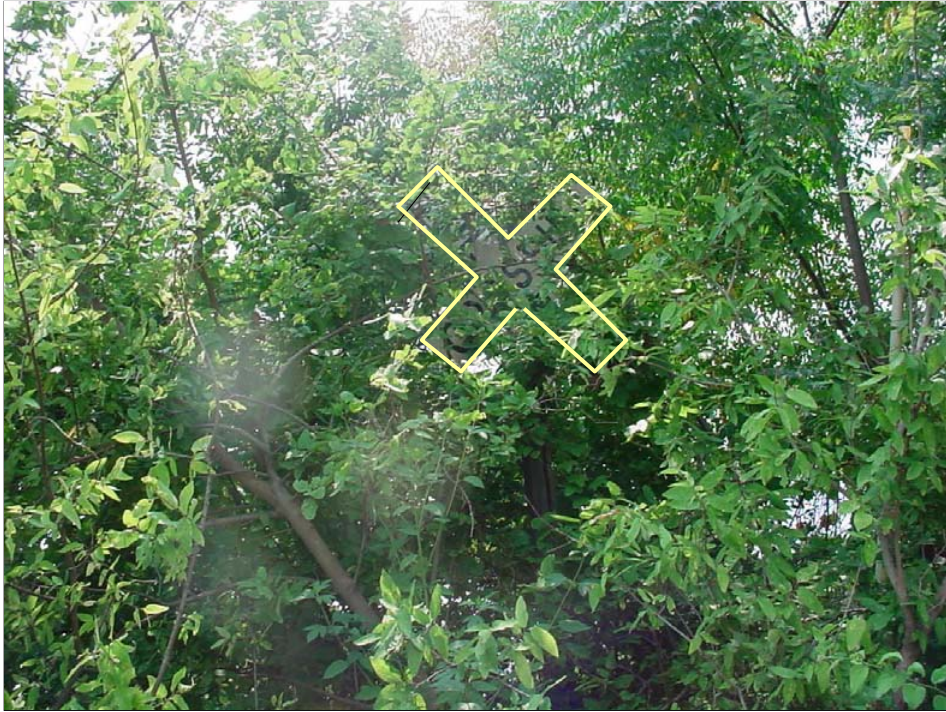
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## Discussion Update: San Francisco, CA

- State of California
- State of Washington
- Union Pacific Railroad
- Metrolink
- Norfolk Southern Corp.
- Attorneys at Law

## Discussion Update: San Francisco, CA

- State of California's methods
- California Environmental Quality Act (CEQA)
- Case Studies
- Hypothetical Questions

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# Safety at Private Highway- Railroad Grade Crossings

Federal Railroad Administration  
Safety Inquiry

Good afternoon, Ladies and Gentlemen. Thank you for coming.

## Plant City, Florida



Photo Courtesy of the Tampa Tribune

I'm going to start off with a quick reminder of why we are looking into this issue. Just last week, on July 17, 2007, a northbound Amtrak train collided with a tractor semitrailer combination vehicle loaded with scrap metal at a private grade crossing near Plant City, Florida.

This accident is currently under investigation, but preliminary data are available.



Current reports state that both locomotives and 9 passenger cars derailed, but remained upright. Between 16 and 18 passengers were treated, and as many as 5 train crewmembers were treated for injuries sustained in this accident.

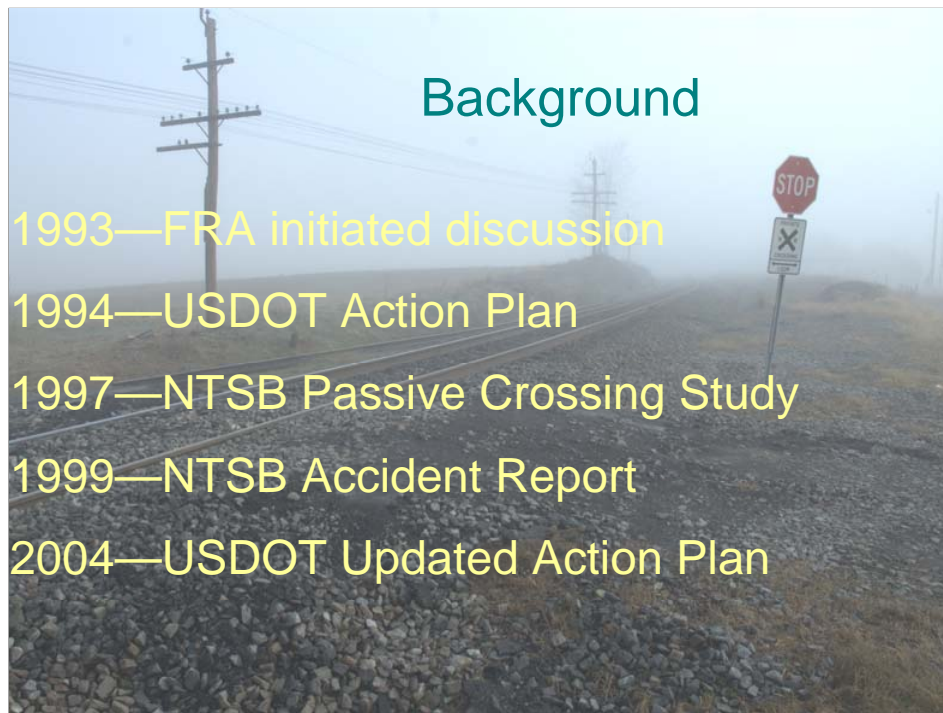




The accident crossing lies on an access road to an industrial area, and is equipped with crossbuck signs.



Reports indicate that the truckdriver was ejected from his vehicle, and that he sustained fatal injuries.

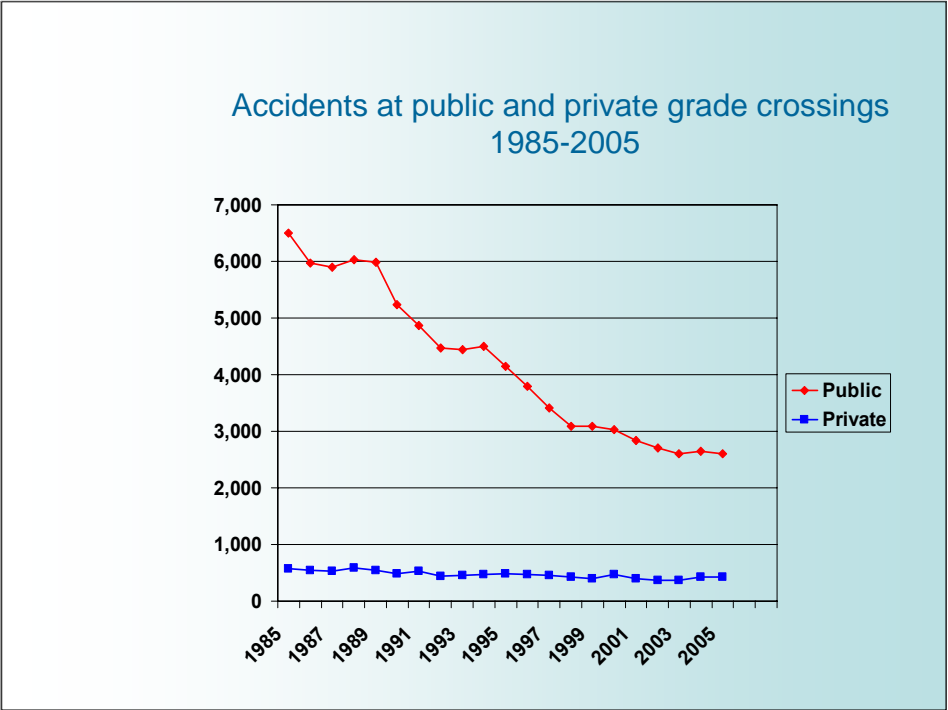


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- February 15, 2007, Syracuse, NY

To gather information on the current state of the art, as well as ideas about possible solutions to existing problems, the FRA has held a series of public meetings.

## Discussion Topics

- General Comments
- Grade Crossing Categories
- Design and Signage Standards
- Rights and Responsibilities
- Data Needs

The FRA sought comments on a wide variety of subjects relating to private crossings. These are some of the principle topic areas.

## General Comments

- States often lack jurisdiction
- States also lack staffing
- Laws, regulations, judicial support differ widely across nation
- Railroads lack authority
- Railroads receive no benefits
- Private crossing uses extremely varied

At each meeting, a number of attendees emphasized the difficulty in approaching a solution to the problem of safety at private crossings. Most States, for example, indicated that they had little or no jurisdiction to affect decisions about creation of private crossings, or, except in fairly limited ways, even determine the traffic control devices placed at such crossings. Railroads indicated that, although safety at all grade crossings was a matter of vital interest to them, they were often powerless to induce private landowners to make needed improvements.

Railroads also noted that they receive no benefits from the existence of most private crossings—benefits fall almost entirely to the holder of the right to cross.



## General Comments

- Create process
- Limit new crossings
- Consolidate existing crossings
- Respect crossing holder's rights, needs
- Partner with States, Railroads, crossing holders

The FRA asked a series of questions in this initiative's initial Federal Register notice. One of these was "How should we justify crossing creation or continuation?"

Many meeting attendees indicated that there is currently no process in place to help the parties involved make decisions that consider safety issues at private crossings.

Several parties, including the Brotherhood of Railroad Signalmen and Citizens for Rail Safety advocated fairly aggressive elimination of private crossings, by prohibiting the creation of new crossings, and by closing or consolidating existing private crossings.

Other parties pointed out that this was more difficult than it sounded, with the New Orleans and Gulf Coast Railroad stating that in their case, local authorities gave them little or no support in their efforts to close redundant crossings or prevent new ones.

Some private crossing holders perceived the current methods for addressing crossing closure to be unfair, giving them little or no input into how their property would be affected.

The State of North Carolina, however, appears to have had some success at resolving these types of apparently conflicting interests by partnering with the interested parties to improve safety at private crossings.

## Grade Crossing Categories

- Many categories
  - Seasonal agricultural
  - Residential
  - Commercial, etc
- Need to look at expected use levels
  - Private
  - Public Use

Meeting attendees provided a long list of the various ways in which crossings can be categorized.

They asserted that it would be difficult to revise the inventory to encompass all possible types of crossings, and expressed concern that by 'over-specifying' crossing categories, the railroads might find it much more difficult to arrange crossing consolidations and closures.

Later discussions focused on the benefits of creating a category known as 'public use', which would be a crossing where the roadway was owned by other than a public agency, but to which the public had an expectation of free access.

## When do private crossings have public purpose, subject to public use?

- Railroads often not notified
- Land use authorities should be involved
- Must determine expectation of access

In expanding on the 'public use' categorization, attendees centered the discussion around the instances where land use changes. As land is developed, a farm field-to-field crossing can become access to a large residential development, or even a commercial establishment like a shopping center. Attendees stated that when this occurs, the amount of highway traffic can increase dramatically, and the risk at that crossing will rise with it.

Attending railroad representatives stated that in most states, there is no mechanism for alerting the railroad to any such change in use at a private crossing. They indicated that, in their experience, the State of California is unique in its ability to identify such land use changes, and to effect crossing improvements at such private crossings.

Under the California Environmental Quality Act, the CPUC has the authority to review all proposed developments concerning potential impact on public safety. They have done so for the past three years. In the CPUC's opinion, the best time to identify land use changes is when the development is undergoing the planning and permitting process; for this reason they strongly advocate involving local permitting authorities.

Even where land use is not changing, attendees agreed that it was important to identify existing private crossings with public use. One participant suggested that it would be most valuable to identify whether the public has an expectation of free access to the private roadway.

## Design and Signage Standards

- Nationwide standards beneficial
- Some States, Railroads have their own standards
- Different standards were proposed

Should there be Nationwide standards for signs and roadway design? Meeting attendees all seemed to agree that development and application of Nationwide standards, both for crossing engineering design and for placement of traffic control devices at private crossings would be beneficial.

It was noted, however, that a handful of States, as well as several individual railroads, have created standards of their own, each one different from the other.

Some attendees suggested that private crossings should be treated exactly the same as public crossings, but others believed that appropriate guidelines should be developed through partnership with AASHTO, AREMA, APTA, and the National Committee on Uniform Traffic Control Devices.

## Are innovative traffic control devices available?

- Need exists
- None yet ready for widespread use
- Liability, cost, lack of effectiveness hinder implementation

Although most attendees agreed that the development of less expensive warning devices could be beneficial, none had found one that had provided enough of a cost reduction, or enough of a safety improvement, to justify their use on a systemwide basis. Further comments suggested that railroads could not use non-failsafe options because of liability considerations.

**Rights and Responsibilities: Should State or Federal Government assume greater responsibility?**

- Almost no States have jurisdiction
- Railroads have limited authority over crossing use, warning devices
- Some parties uneasy about too much Federal involvement
- Others seek uniformity, permitting process, Federal funds

Although the State of California asserted a willingness to continue their strong presence in the area of private crossing safety, most States indicated that they did not even have the ability to keep up with their responsibilities at public crossings, let alone private crossings.

California and Washington were concerned that Federal preemption might damage existing protections at the State level, and one railroad indicated a preference for Federal policies and recommendations instead of regulations.

Others, however, advocated more uniformity in decisionmaking through use of a permitting process overseen by the FRA; one party also suggested that the FRA should take a more proactive approach to providing funding for improvements at private crossings.

**Rights and Responsibilities: Is current assignment of responsibility effective?**

- Need documentation
- Need authority, tools to improve crossing safety
- Should involve local planning authorities

Meeting attendees agreed that in many cases, there is no documentation available assigning rights or responsibilities for safety at private crossings. Attendees indicated that such legal documents often provide a basis for negotiations to modify or close a crossing, and that their absence could render negotiations impossible.

The Association of American Railroads indicated that railroads generally lacked the authority to close or relocate private crossings, or even to require appropriate safety measures. Like numerous other States, the State of North Carolina indicated that they lacked direct authority over private crossings, and stated that they needed tools to improve safety.

By comparison, the California Public Utilities Commission stated that, unlike a great many States, they have the authority to determine necessity for crossing, and to require safety improvements. They emphasized the need, however, for the local authorities who give permission for new development to accept responsibility to address railroad safety.

## **Rights and Responsibilities: How should improvement/ maintenance costs be allocated?**

- Currently not consistent
- States, local authorities, railroads do not want responsibility
- Stakeholders need method for sharing costs

Not too surprisingly, there was little agreement between attendees on this issue. Currently, the allocation of costs vary according to the State, and according to any existing agreements between the railroads and crossing holders.

The State of Wisconsin explained that in many cases, States and local authorities lacked the funds and/or the staff to assume responsibility for the maintenance of private roadways.

The Association of American Railroads suggested that the private crossing user should bear the costs, while others proposed various schemes for sharing the costs between the government and the private crossing user.

The State of North Carolina pointed out that there are generally no State or Federal funds available for improvements at private crossings, and suggested that the Stakeholders (Federal, State, and Local governments, transit authorities, railroads, and private crossing holders) should develop a methodology to share the costs associated with grade crossing safety treatment, construction, and maintenance.



## **Rights and Responsibilities: Is there a need for Alternative Dispute Resolution mechanisms?**

- Direct negotiation not always satisfactory
- Local courts may be biased
- California program successful

In most States, disputes must be solved through direct interaction between the railroad and the crossing holder, a process that is cumbersome and fraught with difficulties for both parties. Representatives of the New Orleans and Gulf Coast Railroad indicated that their ability to negotiate is weakened by the lack of any Federal standards or guidelines, and that, therefore, their negotiations often fail.

Failed negotiations may be resolved in a court of law. Both the railroads and the States, however, indicated that local courts may be biased in favor of the crossing holder, and the lack of Federal standards has made it difficult for railroads to establish jurisdiction in Federal courts.

The State of California indicated that the CPUC allows for administrative legal review, and has a dispute resolution process in place. They suggested that, because of the legal issues involving property rights, and contract law, responsibility for dispute mechanisms should remain with the States, and that Federal guidelines or recommendations could assist States that do not currently have dispute resolution processes.

## Data Collection

- Important, but:
  - Railroads receive no benefits
  - States lack resources
  - Data collectors have safety concerns

The existing National Inventory coverage of private crossing data was deemed largely inadequate for most analyses, as well as for resource allocation. Some participants suggested additional fields, others looked for greater specificity in the data currently collected. On the whole, participants agreed that safety at private grade crossings would benefit from enhanced or improved data collection.

They noted several issues, however, that would need to be resolved in order for data collection efforts to be successful. First, although the existing private crossing data are currently collected by the railroads, the railroads believe that they receive no material benefit from performing this work. They add that requiring railroads to collect additional data would impose a substantial burden.

Second, States indicated that they do not have staff to conduct an inventory, nor in many cases would they allowed to spend public monies to inventory private property.

Thirdly, many private crossings are in remote or less safe neighborhoods, and data collectors may face some personal risks just to collect the data.

## Should the Department of Transportation seek legislation to address private crossings?

- Could be premature
- Many issues to resolve
- Might need legislation
- Basis should be to improve safety

When we raised this question, we elicited some rather spirited responses. Several participants suggested that such an action would be premature until the FRA had had time to consider the comments of the interested parties. Others noted that numerous issues would need to be resolved, including identification of crossing users, establishing crossing agreements, funding, and National security issues.

Other parties, however, strongly encouraged the FRA to seek such legislation, in order to gain enough “regulatory teeth” to control safety issues through a permitting process.

The AAR noted that, should such legislation be sought, the basis for any regulation or action by the FRA would have to be that of increased safety.

## Electronic Docket Submissions

- U.S. DOT Docket Management System
  - <http://dms.dot.gov/>
  - Docket number FRA-2005-23281

The Volpe Center and the FRA will be publishing a report based on the discussions held at the public meetings.

# Safety at Private Highway- Railroad Grade Crossings

What if...

## What if:

- 1. US DOT establishes a requirement that every private crossing have a standard formal agreement. Crossings for which an agreement cannot be found or created will be closed.

## What if...

- 2. A new independent Federal agency (similar to the Surface Transportation Board) were created to oversee the resolution of private crossing disputes?

## What if...

- 3. The US DOT provided guidance or standards on crossing design and warning device implementation at private crossings?



## What if...

- 4. Organizations such as AASHTO, AREMA, and the NCUTCD were to include sections on private crossings in all existing guidance and standards documents?

## What if...

- 5. The railroads were to require all private crossing holders to obtain liability insurance?

## What if...

- 6. A Federal Agency (FRA or other) established a process governing the creation, evaluation, and improvement of private crossings?

## What if...

- 7. The ultimate responsibility for safety at private crossings resided with State Agencies?

## What if...

- 8. The ultimate responsibility for safety at private crossings resided with the railroads?

## What if...

- 9. A private crossing were categorized based on traffic levels and type of use?

## What if...

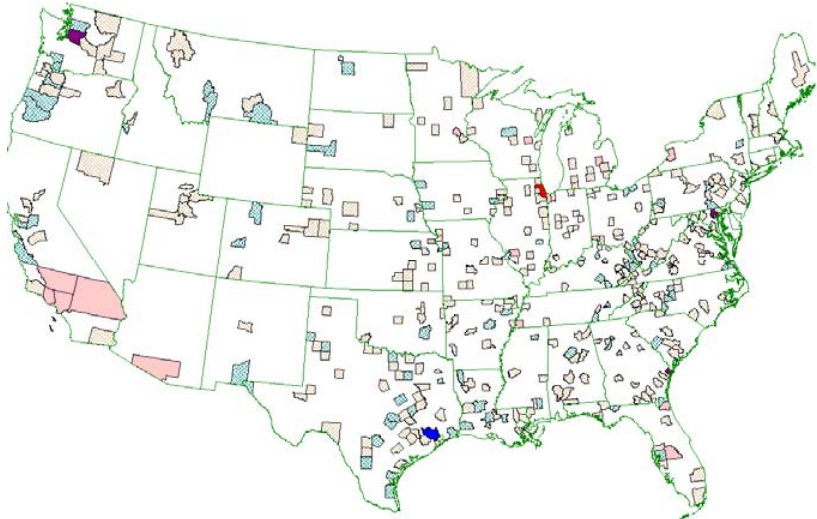
- The FRA were to require that all data currently collected for public crossings also be collected for private crossings?

# Safety at Private Highway- Railroad Grade Crossings

Case studies



2005-2006 INCIDENTS AT PRIVATE CROSSINGS



Nbr 1 2-3 4-5 6-10 11-25 > 25

## Case 1:

- For 75 years, sole access to historical home provided by prescriptive easement
- Neighboring developer puts in siding that eliminates the private crossing leading to the residence

## Case 1

- What rights are assigned to the holder of a long-established prescriptive easement?
- Does the developer/railroad have responsibilities toward the affected crossing holder? If so, what?
- Do State governments (outside the court systems) bear a responsibility for crossings created via prescriptive easements?

## Case 2:

- A developer converts farmland to a large residential neighborhood. A private crossing serving the farm suddenly sees a vast increase in traffic counts, and in the type of vehicles using the crossing.

## Case 2:

- Who bears responsibility for safety at the crossing? The developer, homeowners, or railroad?
- If a city or county chooses to convert it to a public crossing, who is responsible for reporting this to the State and railroad?

## Case 3:

- A private crossing is apparently unused.

## Case 3:

- Is there a process for identifying the crossing holder?
- Can the crossing be closed by the railroad?
- Are there statutory or regulatory restrictions that govern this situation?

# Safety at Private Highway- Railroad Grade Crossings

## Data Needs

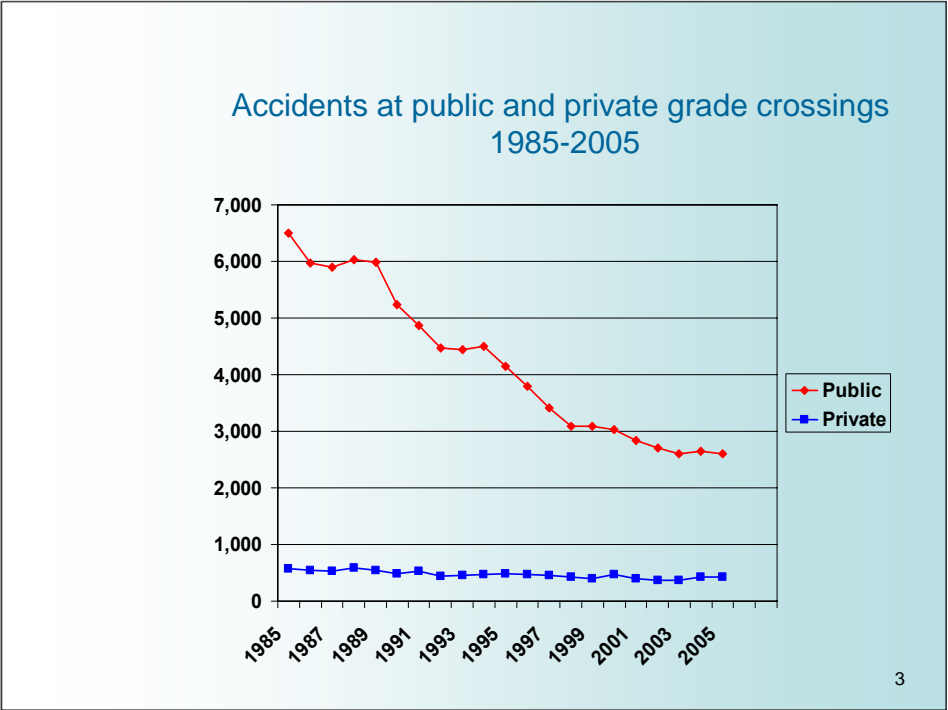
1



FRA Region	All Crossings	Private Crossing Percentage
Region 1	13,573	44%
Region 2	27,945	43%
Region 3	44,075	36%
Region 4	43,295	33%
Region 5	34,478	36%
Region 6	34,920	40%
Region 7	16,115	38%
Region 8	27,207	46%
Total	241,608	39%

2

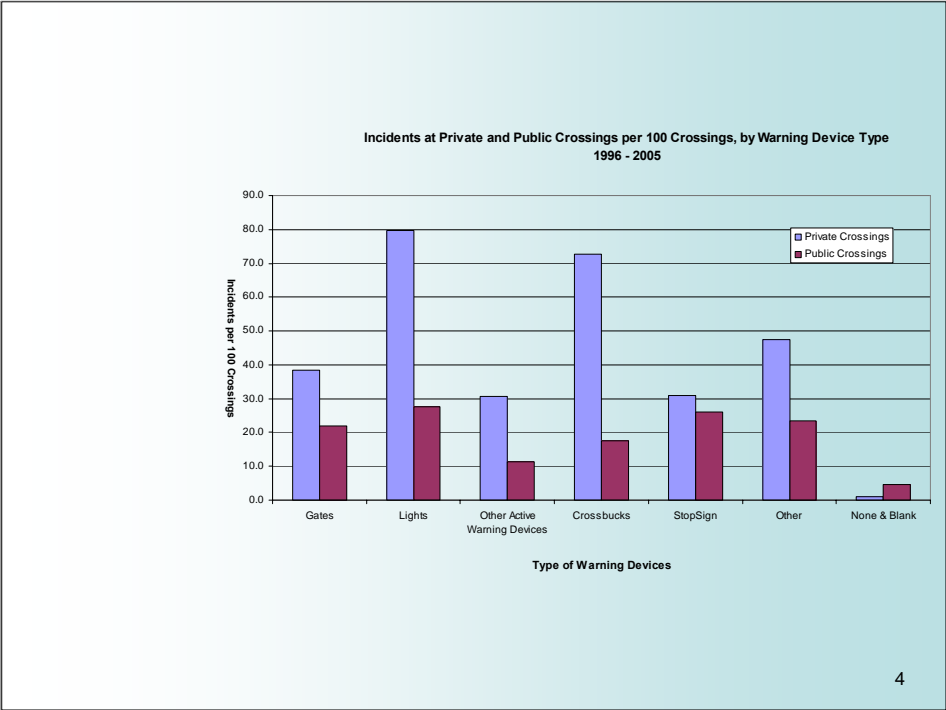
As you can see, regardless of the geographic region, private crossings constitute a significant percentage of all at-grade crossings. The total count Nationwide is about 94,000.

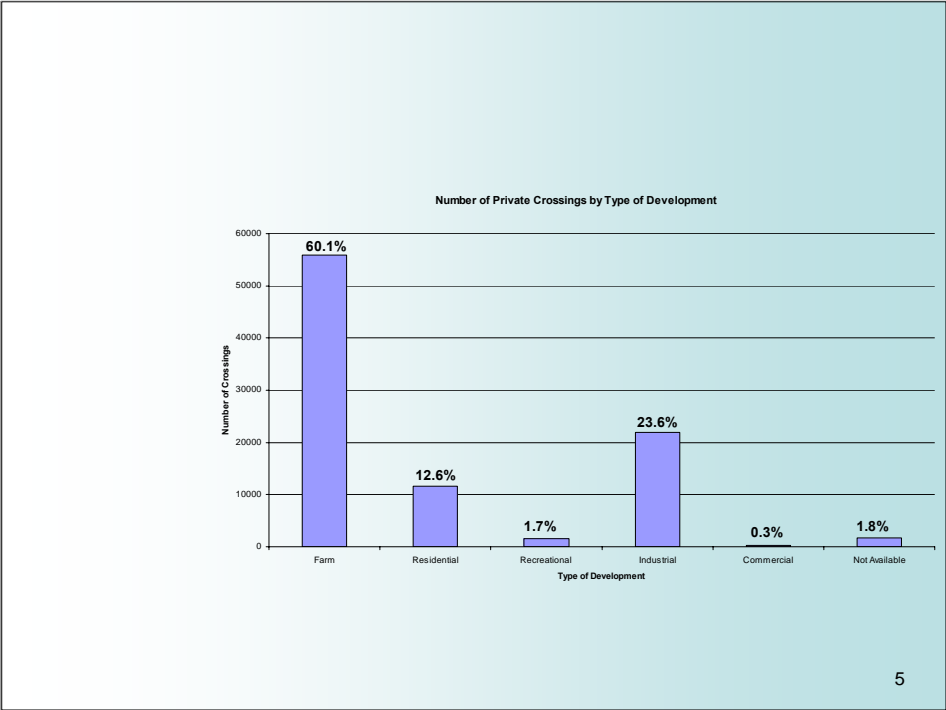


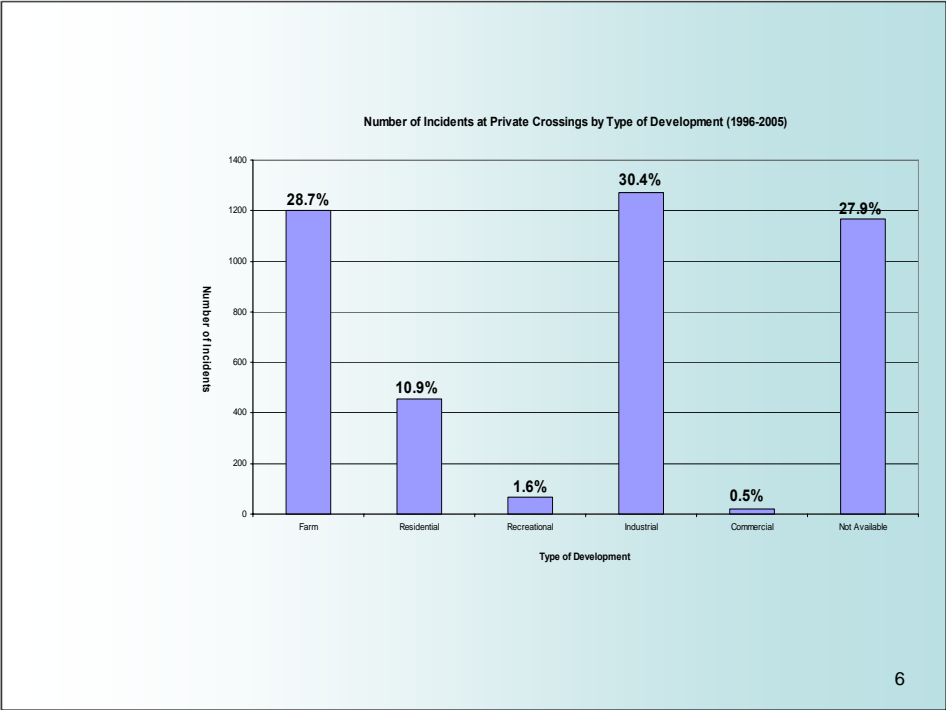
Although accidents at public crossings have declined considerably over the past 20 years (declining by 1/3 over the past decade alone), the number of accidents at private crossings has remained comparatively stable, declining only 10 percent over the past decade.

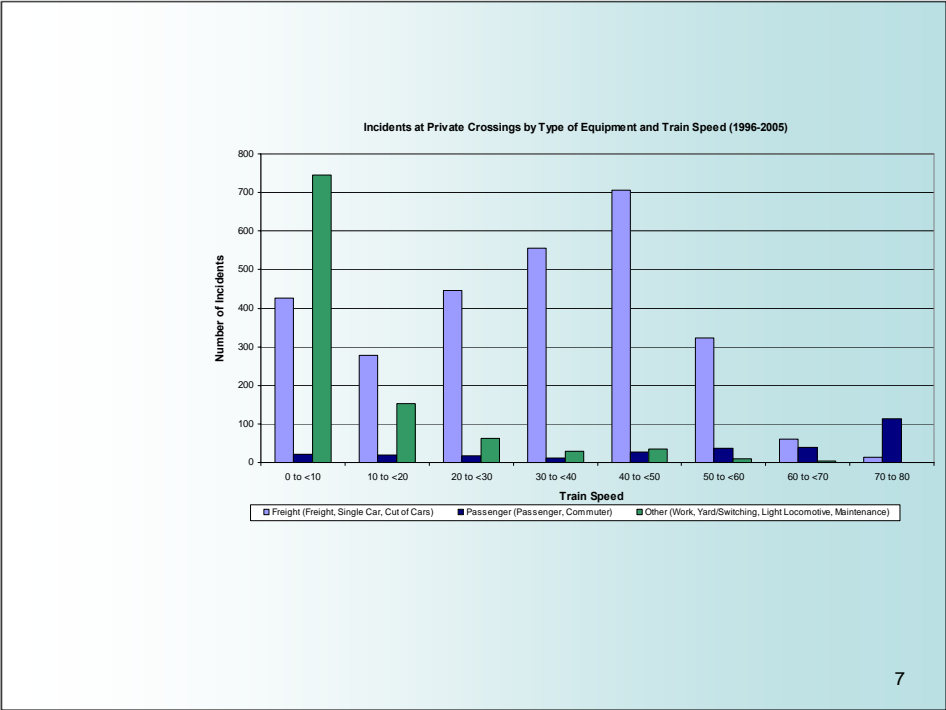
In most years, the number of fatalities occurring in accidents at private crossings exceeded the number of on-duty deaths among railroad employees in all rail operations.

The following are a few examples:









## National Inventory

- 32 % of the private crossing records have been updated since 2001
- 21 % of the private crossing records have *never* been updated

8

The FRA maintains a national inventory of all crossings, public, private, or pedestrian, at grade or grade separated. The data are used by many State, Federal, or private organizations for research, or for resource allocation (determining which crossings are most in need of improvements). It is updated by the States and by the railroads on a voluntary, not mandatory basis.

As you can see, only about 1/3 of the records for private crossings have been updated within the past five years, and a significant portion of the records have never been updated. Analysis on data of this quality must necessarily be somewhat tentative.

The data for public crossings are typically updated more often than this.





## Data Uses

- Resource Allocation
  - **USDOT Formula**
  - State Formulae
- Crossing Treatment Selection
  - GradeDec
  - **FRA Quiet Zone Calculator**
- Warning Device Evaluation
  - Sealed Corridor Study

10

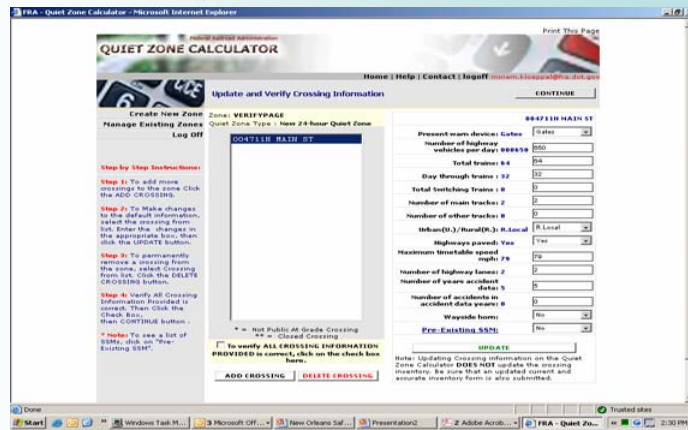
## Resource Allocation

- US DOT resource allocation formula
  - Highway and rail traffic counts
  - Number of daily through trains
  - Maximum timetable speed
  - Number of main tracks
  - Highway paved
  - Number of Highway lanes



# Crossing Treatment Selection

- FRA Quiet Zone Calculator



Essentially the same fields as for resource allocation

## Other Data Desires

- NTSB recommendations:
  - Sight distance
  - Presence of curves on roadway and track
  - Angle of Intersection
  - Presence nearby intersections

13

## Other Data Desires

- Latitude/Longitude
- Other suggestions?

14

# Safety at Private Highway- Railroad Grade Crossings

Federal Railroad Administration  
Safety Inquiry

Good afternoon, Ladies and Gentlemen. Thank you for coming.

## Overview

- States often lack jurisdiction
- States also lack staffing
- Laws, regulations, judicial support differ widely across nation
- Railroads lack authority
- Private crossing uses extremely varied

At each meeting, a number of attendees emphasized the difficulty in approaching a solution to the problem of safety at private crossings. Most States, for example, indicated that they had little or no jurisdiction to affect decisions about creation of private crossings, or, except in fairly limited ways, even determine the traffic control devices placed at such crossings. Railroads indicated that, although safety at all grade crossings was a matter of vital interest to them, they were often powerless to induce private landowners to make needed improvements.

## How should we justify crossing creation or continuation?

- Create process
- Limit new crossings
- Consolidate existing crossings
- Respect crossing holder's rights, needs
- Partner with States, Railroads, crossing holders

Many meeting attendees indicated that there is currently no process in place to help the parties involved make decisions that consider safety issues at private crossings.

Several parties, including the Brotherhood of Railroad Signalmen and Citizens for Rail Safety advocated fairly aggressive elimination of private crossings, by prohibiting the creation of new crossings, and by closing or consolidating existing private crossings.

Other parties pointed out that this was more difficult than it sounded, with the New Orleans and Gulf Coast Railroad stating that in their case, local authorities gave them little or no support in their efforts to close redundant crossings or prevent new ones.

Some private crossing holders perceived the current methods for addressing crossing closure to be unfair, giving them little or no input into how their property would be affected.

The State of North Carolina, however, appears to have had some success at resolving these types of apparently conflicting interests by partnering with the interested parties to improve safety at private crossings.



## Is current assignment of responsibility effective?

- Need documentation
- Need authority, tools to improve crossing safety
- Should involve local planning authorities

Meeting attendees agreed that in many cases, there is no documentation available assigning rights or responsibilities for safety at private crossings. Attendees indicated that such legal documents often provide a basis for negotiations to modify or close a crossing, and that their absence could render negotiations impossible.

The Association of American Railroads indicated that railroads generally lacked the authority to close or relocate private crossings, or even to require appropriate safety measures. Like numerous other States, the State of North Carolina indicated that they lacked direct authority over private crossings, and stated that they needed tools to improve safety.

By comparison, the California Public Utilities Commission stated that, unlike a great many States, they have the authority to determine necessity for crossing, and to require safety improvements. They emphasized the need, however, for the local authorities who give permission for new development to accept responsibility to address railroad safety.

## How should improvement/ maintenance costs be allocated?

- Currently not consistent
- States, local authorities, railroads do not want responsibility
- Stakeholders need method for sharing costs

Not too surprisingly, there was little agreement between attendees on this issue. Currently, the allocation of costs vary according to the State, and according to any existing agreements between the railroads and crossing holders.

The State of Wisconsin explained that in many cases, States and local authorities lacked the funds and/or the staff to assume responsibility for the maintenance of private roadways.

The Association of American Railroads suggested that the private crossing user should bear the costs, while others proposed various schemes for sharing the costs between the government and the private crossing user.

The State of North Carolina pointed out that there are generally no State or Federal funds available for improvements at private crossings, and suggested that the Stakeholders (Federal, State, and Local governments, transit authorities, railroads, and private crossing holders) should develop a methodology to share the costs associated with grade crossing safety treatment, construction, and maintenance.

## Is there a need for Alternative Dispute Resolution mechanisms?

- Direct negotiation not always satisfactory
- Local courts may be biased
- California program successful

In most States, disputes must be solved through direct interaction between the railroad and the crossing holder, a process that is cumbersome and fraught with difficulties for both parties. Representatives of the New Orleans and Gulf Coast Railroad indicated that their ability to negotiate is weakened by the lack of any Federal standards or guidelines, and that, therefore, their negotiations often fail.

Failed negotiations may be resolved in a court of law. Both the railroads and the States, however, indicated that local courts may be biased in favor of the crossing holder, and the lack of Federal standards has made it difficult for railroads to establish jurisdiction in Federal courts.

The State of California indicated that the CPUC allows for administrative legal review, and has a dispute resolution process in place. They suggested that, because of the legal issues involving property rights, and contract law, responsibility for dispute mechanisms should remain with the States, and that Federal guidelines or recommendations could assist States that do not currently have dispute resolution processes.

## Should State or Federal Government assume greater responsibility?

- Most States not able to assume more responsibility
- States, railroads uneasy about too much Federal involvement
- Other parties seek uniformity, permitting process, Federal funds

The responses to this question were also varied. Although the State of California asserted a willingness to continue their strong presence in the area of private crossing safety, most States indicated that they did not even have the ability to keep up with their responsibilities at public crossings, let alone the private crossings.

The States of California and Washington were concerned that the Federal government might damage existing protections by seeking to preempt State laws, and one railroad indicated a preference for Federal policies and recommendations, rather than regulation.

Other parties, on the other hand, advocated more uniformity in decisionmaking through a permitting process overseen by the FRA; one party also suggested that the FRA should take a more proactive approach to providing funding for improvements at private crossings.

## What if Railroads were responsible?

- Railroads should have the right to control what goes on railroad rights-of-way
- Railroads can't control crossing usage, have no regulatory authority at crossings

One railroad insisted that railroads should be recognized to be interstate highways of commerce, and that they should have the right to control what goes on their rights of way.

Others, however, noted that railroads cannot control crossing usage, and that they have no regulatory authority at crossings.

It was generally agreed that trying to place the full responsibility for safety at private crossings on the railroads would likely not lead to a successful program of safety improvements.

## Should there be Nationwide standards for signs and roadway design?

- Nationwide standards beneficial
- Some States, railroads have a standard
- Different standards proposed

Most attendees agreed that development and application of Nationwide standards, both for crossing engineering design, and for placement of warning devices at private crossings would be beneficial.

Although some States, as well as some individual railroads, currently require standard signage at private crossings, each standard differs from the others.

While some attendees proposed that private crossings be treated exactly the same as public crossings, others suggested that appropriate guidelines and standards should be developed through partnering with AASHTO, AREMA, APTA, and the National Committee on Uniform Traffic Control Devices.

## When do private crossings have public purpose, subject to public use?

- Railroads often not notified
- Land use authorities should be involved
- Must determine expectation of access

Much of this discussion centered around the instances where land use changes. As land is developed, a farm field-to-field crossing can become access to a large residential development, or even a commercial establishment like a shopping center. Attendees stated that when this occurs, the amount of highway traffic can increase dramatically, and the risk at that crossing will rise with it.

Attending railroad representatives stated that in most states, there is no mechanism for alerting the railroad to any such change in use at a private crossing. They indicated that, in their experience, the State of California is unique in its ability to identify such land use changes, and to effect crossing improvements at such private crossings.

Under the California Environmental Quality Act, the CPUC has the authority to review all proposed developments concerning potential impact on public safety. They have done so for the past three years. In the CPUC's opinion, the best time to identify land use changes is when the development is undergoing the planning and permitting process; for this reason they strongly advocate involving local permitting authorities.

Even where land use is not changing, attendees agreed that it was important to identify existing private crossings with public use. One participant suggested that it would be most valuable to identify whether the public has an expectation of free access to the private roadway.

## Should some private crossings be “commercial crossings”?

- Crossings have many uses
- Who determines usage thresholds
- Canada uses “restricted” and “unrestricted”
- Could create “semi-public” category

Meeting attendees listed a great many different uses for private crossings, each with its own risk characteristics. They noted, however, that it would be hard to reach agreement about thresholds for categorization based on traffic counts or traffic types. One railroad also contended that such categorization might hinder efforts at consolidation.

More than one attendee noted that in Canada, instead of depending on roadway ownership to determine appropriate treatment levels, they classify crossings as either “restricted” or “unrestricted” based on whether the public has access.

One attendee suggested that we adopt a categorization system almost as simple as that used in Canada. He proposed that crossings could be public, private, or semi-public. He defined a semipublic crossing to be a highway-railroad grade crossing that is owned by other than a public agency but to which the public expects free access.



## Are innovative traffic control devices available?

- Need exists
- None yet ready for widespread use
- Liability, cost, lack of effectiveness hinder implementation

Although most attendees agreed that the development of less expensive warning devices could be beneficial, none had found one that had provided enough of a cost reduction, or enough of a safety improvement, to justify their use on a systemwide basis. Further comments suggested that railroads could not use non-failsafe options because of liability considerations.

## Should the Department of Transportation seek legislation to address private crossings?

- Could be premature
- Many issues to resolve
- Might need legislation
- Basis should be to improve safety

When we raised this question, we elicited some rather spirited responses. Several participants suggested that such an action would be premature until the FRA had had time to consider the comments of the interested parties. Others noted that numerous issues would need to be resolved, including identification of crossing users, establishing crossing agreements, funding, and National security issues.

Other parties, however, strongly encouraged the FRA to seek such legislation, in order to gain enough “regulatory teeth” to control safety issues through a permitting process.

The AAR noted that, should such legislation be sought, the basis for any regulation or action by the FRA would have to be that of increased safety.

## Data Collection

- Important, but:
  - Railroads receive no benefits
  - States lack resources
  - Data collectors have safety concerns

The existing National Inventory coverage of private crossing data was deemed largely inadequate for most analysis, as well as for resource allocation. Some participants suggested additional fields, or more specificity in the existing data. On the whole, meeting attendees agreed that safety at private crossings would benefit from enhanced or additional data collection.

They noted, however, a series of issues that would need to be resolved in order for data collection efforts to be successful. First, although data on private crossings are currently collected by railroads, the railroads believe they receive no material benefit from doing this work—they add that requiring railroads to collect additional data would impose a serious burden.

Second, States do not have the staff to conduct an inventory, nor in many cases would they be allowed to spend public monies to inventory private property.

Thirdly, some private crossings are in remote or less safe neighborhoods, and the data collectors may face some personal risks just to collect the data.

## Next Steps...

- U.S. DOT Docket Management System
  - <http://dms.dot.gov/>
  - Docket number FRA-2005-23281

## Alternative Approach Discussion Topics

Good afternoon, Ladies and Gentlemen. Thank you for coming.

## Private Crossing Findings

- Safety not improving as rapidly as at public crossings
  - Public funding helps improve safety
  - Public funding generally not available at private crossings
  - Proportionately fewer active crossings

The use of public funds to make improvements has played an important role in improving safety at public crossings. Except in very rare circumstances, however, public funding has not been, and currently is not available for use at private crossings. As a result, the proportion of private crossings equipped with more effective warning devices, particularly active warning devices, is much lower than the proportion of public crossings so equipped. Improvements in safety (as reflected in the accident, fatality, and injury counts Nationwide) at private crossings, therefore, have lagged behind the improvements seen at public crossings.

## Private Crossing Findings

- Accident, incident, and casualty rates may have dropped
  - Inventory data lacks traffic counts
- Accident, incident, and casualty counts remain stagnant
- Opportunities for accidents may rise
  - Population increases
  - Changes in land use
  - Growth in highway and rail traffic

- Current data are not sufficient to allow analyses of trends in either highway or rail traffic at private crossings. Assuming, however, that exposure trends at private crossings are similar in direction to those at public crossings, even if they are not similar in scale, it seems reasonable to believe that exposure at private crossings has risen somewhat over the past decade. Based on this assumption, accident, incident, and casualty rates at private crossings have likely fallen somewhat over the same time period. National totals of accidents, incidents, fatalities, and injuries are stagnant, however.
- Population increases, changes in land use, and both recent and projected growth in rail and highway traffic suggest that exposure to accident risk at private crossings is likely to continue increasing. Accordingly, the number of opportunities for accidents, and therefore for casualties, will also increase unless new initiatives for improving private crossing safety are identified and effectively implemented.

## Private Crossing Findings

- No cohesive policy, regulatory structure
  - Redundant crossings
  - Inadequately designed crossings
  - Poorly maintained crossings
- Numerous populations at risk
  - Motorists
  - Train occupants
  - Others in crossing vicinity

- Absence of a cohesive policy or regulatory structure at any level has led to the existence of private crossings that are redundant, inadequately designed, and/or poorly maintained.
- Motorists represent only a portion of the populations at risk due to accidents at private crossings. The risks of collision and of derailment mean that the train crews, train passengers, and others in the vicinity of the crossing may be exposed to derailling equipment or hazardous materials releases.



## Private Crossing Findings

- States, local authorities generally lack jurisdiction
- Crossings created without considering public safety, necessity
- No Standards (in most States)
  - Signage
  - Roadway design

- With few exceptions, no public bodies at the State or local level are vested with authority or responsibility for safety at private crossings.
- No process currently exists that predicates the creation of new private crossings or the continuation of existing crossings on considerations of public safety or necessity.
- In most States, there are no publicly-sanctioned engineering criteria for private crossings. Accordingly, users of those crossings may encounter a variety of signage, road surface conditions, and other engineering attributes.

## Private crossing Findings

- Most crossings lack agreements
- Public use a key safety concern
- Local planning departments not involved

- For most private crossings in the Nation, there is no agreement in place specifying the responsibilities of the railroad and the holder. Disputes must typically be resolved through direct interaction between the railroad and the crossing holder, or, failing that, through litigation.
- The level and type of highway use, i.e. whether the public has an expectation of free access to a crossing, is a key factor affecting the safety at that crossing.
- In general, local planning and zoning authorities do not regularly take into account the impacts on interstate rail transportation of the development decisions that they oversee.

## Private Crossing Findings

- Railroad authority limited
- Efforts to make improvements hampered
- Education programs may help
- Law enforcement programs likely ineffective

- Railroads' ability to control roadway design or traffic control device selection and placement is limited. They also often lack the authority to control the highway usage of a given crossing
- At substantial cost, railroads make significant efforts to close or improve private crossings. However; they are hampered by common law, and in some cases statutory law, which do not recognize the degree to which private crossings threaten the safety of road users, railroad employees, and potentially other members of the public in the vicinity.
- The contribution of education and awareness programs to safety at private crossings is not documented, but safety knowledge and awareness would appear relevant to private crossing safety, provided that engineering arrangements present suitable cues to facilitate safely traversing the intersection.
- Since State laws applicable to public roadways do not apply at private crossings, and since most users of private crossings are likely authorized users, law enforcement does not appear to be a useful strategy for improving safety at private crossings.

## Private Crossing Findings

- Effective solutions require collaboration
  - Private crossing holders
  - Railroads
  - Local planning approval authorities
  - State agencies
  - Standard-developing organizations
  - U.S. DOT

Effective solutions to improving safety at the Nation's private highway-rail grade crossings will require active collaboration between the parties involved. These parties include, but may not be limited to:

- the holders of the right to cross the railroad,
- the railroads,
- local public planning approval authorities,
- state agencies that enforce crossing design standards,
- professional and/or industry organizations responsible for developing standards,
- the U.S. Department of Transportation (DOT).

## Private Crossing Findings

- FRA has relevant authority
- Other DOT modes should also participate

Within the DOT, the Federal Railroad Administration (FRA) is the only agency with statutory authority directly relevant to the subject matter. However, in the interest of effectively serving the multimodal populations at risk, other DOT surface modes should participate in program development.

Policy	Regulation
<ul style="list-style-type: none"> <li>• Discourage crossing creation</li> <li>• Recommend States track land use changes</li> <li>• Recommend States notify RRs of land use changes</li> </ul>	<ul style="list-style-type: none"> <li>• Discourage crossing creation</li> <li>• Require Statement of Essential Need               <ul style="list-style-type: none"> <li>• Specify use</li> <li>• Explain lack of alternative</li> </ul> </li> <li>• Forbid crossing creation, use if lacking</li> <li>• Create dispute process</li> </ul>

**The FRA proposes to publish new National Policy, to include the following:**

- A clear declaration that new private crossings are disfavored, except where clearly necessary after evaluation of all reasonable alternatives.
- A declaration that States should establish or identify a process whereby they are notified of land use changes that might affect safety at a private grade crossing, and publication of exemplar State legislation for those States that do not currently have jurisdiction over safety at private crossings.
- A declaration that States should establish or identify a process for notifying affected railroads of any land use changes that might affect safety at a private grade crossing, and publication of exemplar State legislation for those States that do not currently have jurisdiction over safety at private crossings.

**U.S. DOT will seek legislation providing explicit authority to be vested in the Secretary, supplementing the Railroad Safety Laws, for regulation of safety at private highway-rail grade crossings. The legislation should be sufficiently broad to enable the following:**

- Adopt a clear declaration of National Policy that new private crossings are disfavored, except where clearly necessary after evaluation of all reasonable alternatives.
- Require that a Statement of Essential Need be provided to the railroad before any new private crossing is created (whether public use, agricultural, or other) or the use changes (e.g., light residential to commercial or industrial).
- Require that the Statement specify the intended use (volume, type of traffic, nature of permission to use), and why alternative access is not available or is not suitable.
- Establish that no new private crossing may be opened for traffic, or subjected to a change in use, until equipped in according with the requirements above.
- Provide a procedure for the railroad, State agency, or FRA to challenge the Statement or propose alternative access.

Policy	Regulation
<ul style="list-style-type: none"> <li>• Recommend crossing agreements</li> <li>• Recommend State crossing review programs</li> <li>• Draft example State legislation</li> </ul>	<ul style="list-style-type: none"> <li>• Require crossing agreements               <ul style="list-style-type: none"> <li>– Specify responsibilities</li> <li>– Require holder participation</li> </ul> </li> <li>• Empower States, Railroads to challenge continued crossing use</li> </ul>

**Policy:**

- A declaration that every private crossing should have a recorded agreement addressing, at a minimum, safety-related factors.
- A declaration that States should establish programs for review of existing private crossings, and publication of exemplar State legislation for those States that do not currently have jurisdiction over safety at private crossings.

**Regulation:**

- Require that the railroad and holder enter into an agreement with specified elements where the crossing cannot be closed.
- Specify the responsibilities of the crossing holder and the railroad. Since use of the crossing is determined by the holder, place a clear responsibility on the holder to participate in making necessary improvements at the crossing.
- Provide a mechanism for the railroad(s) using the rail line to challenge the continued necessity for the crossing.

Policy	Regulation
<ul style="list-style-type: none"> <li>• Classify crossings               <ul style="list-style-type: none"> <li>– Private use                   <ul style="list-style-type: none"> <li>• Residential</li> <li>• Farm field-to-field</li> </ul> </li> <li>– Public use                   <ul style="list-style-type: none"> <li>• Multi-residential</li> <li>• Commercial</li> <li>• Industrial</li> </ul> </li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Require treatments based on crossing usage               <ul style="list-style-type: none"> <li>– All                   <ul style="list-style-type: none"> <li>• Minimum signage</li> </ul> </li> <li>– Public use                   <ul style="list-style-type: none"> <li>• MUTCD</li> <li>• Section 130</li> <li>• Train horn use</li> <li>• Risk-based evaluations</li> <li>• Close if not up to spec</li> </ul> </li> </ul> </li> </ul>

**Policy:**

•Establishment of an enhanced private crossing classification scheme for inclusion in the National Grade Crossing Inventory, and for use by diagnostic teams, that resembles the following:

- Private crossings with private use (where there is not a perception that the general population is invited or allowed access)
  - Residential driveways (fewer than 4 units)
  - Farm field-to-field crossings
- Private crossings with public use
  - Large residential driveways
  - Commercial crossings where the public access is expected (shopping centers, business parks, medical offices, parking lots, sports arenas, other recreational sites)
  - Industrial crossings (dependent on traffic count, design vehicle)

•Note: In determining public use, the type of train traffic should also be a factor taking into consideration the impact of a collision on passengers on the train or on near-by facilities.

**Regulation:**

- Classify private crossings by use, providing suitable objective definitions.
- Require treatments based on private crossing classifications, as follows:
  - All private crossings:
    - Specify minimum signage to consist of a crossbuck, supplemented by a stop or yield sign, and, in the case of non-public use crossings, a standard plate stating, "Private Crossing - Authorized Users Only." Require replacement of existing signage as needed, not to exceed 7 years from date of final rule.
  - Private crossings with Public Use:
    - Provide that public use crossings shall conform to the MUTCD.
    - Make public use crossings eligible for improvement under section 130; however, require a documented statement of public benefits before funds are expended.
    - Except where a quiet zone is in effect, require use of the train horn at public use crossings under the same rules as public crossings.
    - Provide risk-based regulatory requirements for improvements at public use crossings and other private crossings (except agricultural crossings; see below), including sight distance requirements as applicable. Consider factors such as road traffic, rail traffic, presence of rail passenger service, maximum train speeds, etc.
    - After period of progressive work to improve these crossings, require that they be closed if not equipped according to requirements.



Policy	Regulation
<ul style="list-style-type: none"> <li>• Guidelines to trigger diagnostic team</li> <li>• Guidelines for diagnostic team evaluations               <ul style="list-style-type: none"> <li>– Risk analysis</li> <li>– closure</li> <li>– Consolidation</li> <li>– Grade separations</li> <li>– Public use?                   <ul style="list-style-type: none"> <li>• Use MUTCD</li> </ul> </li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Require treatments based on crossing usage (continued)               <ul style="list-style-type: none"> <li>– Seasonal or Agricultural                   <ul style="list-style-type: none"> <li>• Locked gates</li> <li>• RR dispatcher approval</li> </ul> </li> </ul> </li> </ul>

**Policy:**

- Establishment of guidelines or thresholds of exposure or other factors affecting safety, to determine when those new private crossings, or those crossings at which land use changes affect safety, when they are deemed necessary, should be subject to a risk-based evaluation by a diagnostic team.
- Establishment of guidelines for diagnostic teams that promote a Nationally consistent approach to making improvements at private crossings, to include the following:
  - Risk levels should be calculated for each private crossing. Analysis should be performed to determine the appropriate risk remediation treatments. Risk above a certain threshold should trigger use of AASHTO roadway design standards.
  - Diagnostic teams should consider crossing closure before considering any other treatment option.
  - Where possible, diagnostic teams should consider consolidating crossings. This may be accomplished by providing access either to a nearby public crossing, or to a nearby private crossing that can be adequately upgraded to improve safety.
  - Where closure or consolidation proves infeasible, diagnostic teams should examine the possibility of implementing inexpensive grade separations.
  - Should the preceding options prove infeasible, determination of the appropriate treatment should be predicated in part on whether the private roadway is open to public travel, and on whether there are access restrictions.
  - Crossings at which there is an expectation of public use should be treated in a manner consistent with the guidelines in the MUTCD.

**Regulation:**

- Private Crossings with Seasonal or Agricultural Use:
  - Specify use of locked gates or minimum signage (above) for agricultural crossings on tracks where the maximum authorized train speed exceeds 25 mph.
  - Specify a requirement for railroad dispatcher approval to traverse the crossing where maximum authorized train speed exceeds 49 mph, except where some form of active warning is provided.

Policy	Regulation
	<ul style="list-style-type: none"> <li>• Provide shared cost alternative dispute resolution (ADR)</li> <li>• Provide publicly funded “appeal” ADR</li> <li>• Certify States               <ul style="list-style-type: none"> <li>– Conforms to National policies</li> <li>– Legal opinion</li> <li>– Periodic affirmation</li> </ul> </li> </ul>

**Regulation:**

- Provide one or more mechanisms for alternative dispute resolution when a dispute arises regarding the opening, closing or improvement of a private crossing. (Shared cost, railroad and holder.)
- Provide a mechanism for dispute resolution, available only where alternative dispute resolution has failed. (Public cost.)
- Provide a means of certifying any State capable of handling these issues within the State.
  - Certification would be based on substantial conformity with the policies adopted at the National level, provision of legal opinion that the State agency is authorized to undertake the function, and periodic affirmation by the State agency that it is funded at a level permitting it to show progress in addressing the issue.

Policy	Regulation
<ul style="list-style-type: none"> <li>• Study diagnostic team feasibility</li> <li>• Study new low cost solutions</li> <li>• Study new inventory technology</li> </ul>	<ul style="list-style-type: none"> <li>• Improve Inventory               <ul style="list-style-type: none"> <li>– Require railroads to populate data fields</li> <li>– Add fields as necessary</li> <li>– Allow estimation</li> </ul> </li> </ul>

**FRA will also pursue the following pilot projects:**

- A study of the feasibility of using diagnostic team approach on private crossings in a corridor.
- A study of the effectiveness or applicability of new low cost solutions.
- Study methods of using best available technology for transmitting private crossing data to inventory.

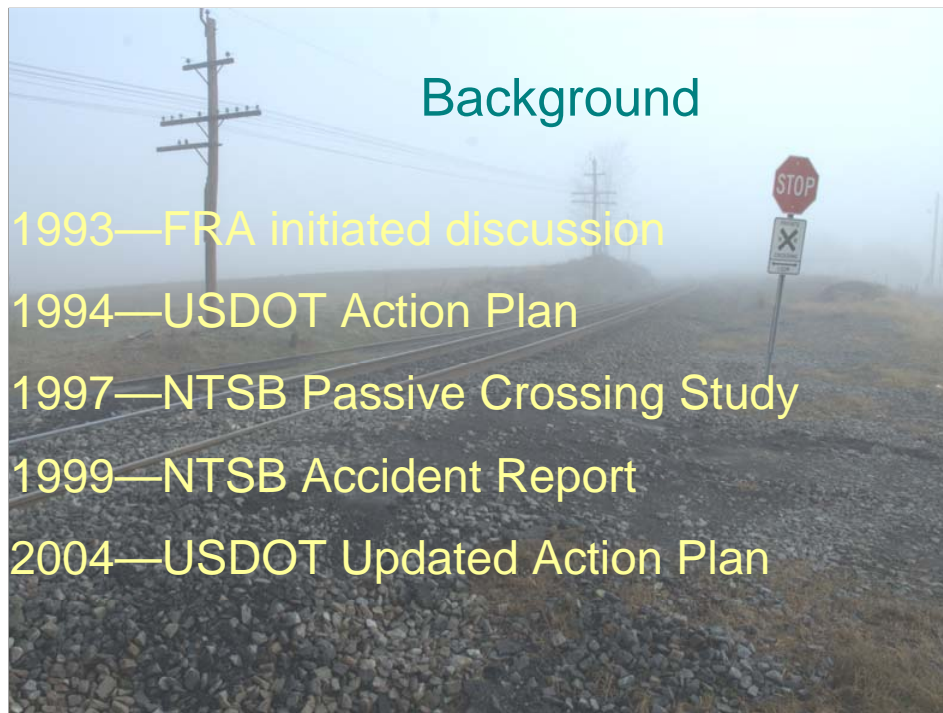
**Regulation:**

- Improve the National Highway-Rail Grade Crossing Inventory with respect to private crossings:
  - Require railroad to populate private crossing data fields in the inventory, providing updates not less frequently than once every 3 years.
  - Add data elements as needed for analysis.
  - Permit railroad to estimate information not directly available.

# Safety at Private Highway- Railroad Grade Crossings

Federal Railroad Administration  
Safety Inquiry

Good afternoon, Ladies and Gentlemen. Thank you for coming.

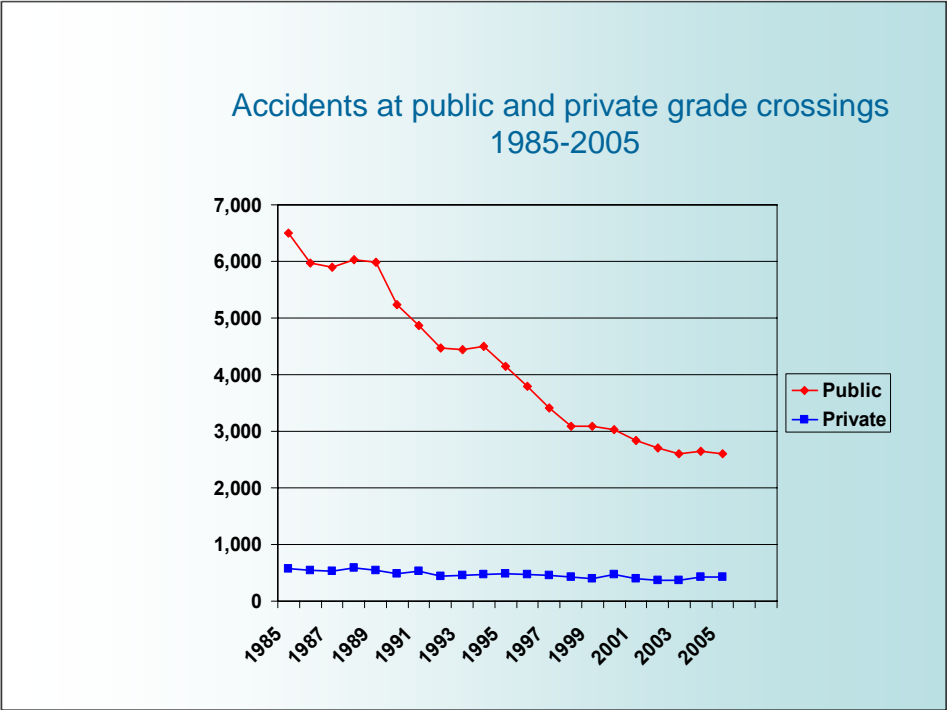


Private crossing safety has for some time been a matter of concern to the US Department of Transportation and to other Federal Agencies.

- In 1993, the FRA hosted an open meeting to initiate industry-wide discussions.
- In its 1994 Rail-Highway Safety Action Plan, the USDOT proposed to develop national minimum standards for private crossings.
- In its 1997 study on Safety at Passive Grade Crossings, the NTSB highlighted the need for some system to improve private crossing safety, and recommended that the USDOT, in conjunction with the States, determine governmental oversight responsibility for safety at private grade crossings.
- In 1999, the NTSB weighed in again in its report on a private grade crossing accident in Portage, Indiana. In this case, the NTSB recommended that the DOT eliminate any differences between public and private crossings with regard to funding or requirements for safety improvements.
- In 2004, the USDOT published an updated Action Plan, in which the FRA committed to leading an effort to define responsibility for safety at private crossings. Today's meeting is a vital part of this effort.

FRA Region	All Crossings	Private Crossing Percentage
Region 1	13,573	44%
Region 2	27,945	43%
Region 3	44,075	36%
Region 4	43,295	33%
Region 5	34,478	36%
Region 6	34,920	40%
Region 7	16,115	38%
Region 8	27,207	46%
Total	241,608	39%

The FRA maintains offices in each of 8 geographic regions. As you can see, regardless of the region, private crossings constitute a significant percentage of all at-grade crossings. The total count Nationwide is about 94,000.



Although accidents at public crossings have declined considerably over the past 20 years (declining by 1/3 over the past decade alone), the number of accidents at private crossings has remained comparatively stable, declining only 10 percent over the past decade.

In most years, the number of fatalities occurring in accidents at private crossings exceeded the number of on-duty deaths among railroad employees in all rail operations.

The following are a few examples:

## Public Meetings

- August 30, Fort Snelling, MN
- September 27, Raleigh, NC
- October 26, San Francisco, CA
- December 6, New Orleans, LA
  
- February 15, 200, Syracuse, NY

To gather information on the current state of the art, as well as ideas about possible solutions to existing problems, the FRA has held a series of public meetings.



## Discussion Topics

- General Comments
- Grade Crossing Categories
- Need for Standard Signs
- Design Standards
- Rights and Responsibilities
- Data Needs

The FRA sought comments on a wide variety of subjects relating to private crossings. These are some of the principle topic areas.

## General Comments

- States often lack jurisdiction
- States also lack staffing
- Laws, regulations, judicial support differ widely across nation
- Railroads lack authority
- Railroads receive no benefits
- Private crossing uses extremely varied

At each meeting, a number of attendees emphasized the difficulty in approaching a solution to the problem of safety at private crossings. Most States, for example, indicated that they had little or no jurisdiction to affect decisions about creation of private crossings, or, except in fairly limited ways, even determine the traffic control devices placed at such crossings. Railroads indicated that, although safety at all grade crossings was a matter of vital interest to them, they were often powerless to induce private landowners to make needed improvements.

Railroads also noted that they receive no benefits from the existence of most private crossings—benefits fall almost entirely to the holder of the right to cross.

## General Comments

- Create process
- Limit new crossings
- Consolidate existing crossings
- Respect crossing holder's rights, needs
- Partner with States, Railroads, crossing holders

Many meeting attendees indicated that there is currently no process in place to help the parties involved make decisions that consider safety issues at private crossings.

Several parties, including the Brotherhood of Railroad Signalmen and Citizens for Rail Safety advocated fairly aggressive elimination of private crossings, by prohibiting the creation of new crossings, and by closing or consolidating existing private crossings.

Other parties pointed out that this was more difficult than it sounded, with the New Orleans and Gulf Coast Railroad stating that in their case, local authorities gave them little or no support in their efforts to close redundant crossings or prevent new ones.

Some private crossing holders perceived the current methods for addressing crossing closure to be unfair, giving them little or no input into how their property would be affected.

The State of North Carolina, however, appears to have had some success at resolving these types of apparently conflicting interests by partnering with the interested parties to improve safety at private crossings.

## Grade Crossing Categories

- Many categories
  - Seasonal agricultural
  - Residential
  - Commercial, etc
- Need to look at expected use levels
  - Private
  - Public Use

Meeting attendees provided a long list of the various ways in which crossings can be categorized.

They asserted that it would be difficult to revise the inventory to encompass all possible types of crossings, and expressed concern that by 'over-specifying' crossing categories, the railroads might find it much more difficult to arrange crossing consolidations and closures.

Later discussions focused on the benefits of creating a category known as 'public use', which would be a crossing where the roadway was owned by other than a public agency, but to which the public had an expectation of free access.

## Design and Signage Standards

- Nationwide standards beneficial
- Some States, Railroads have their own standards
- Different standards were proposed

Meeting attendees all seemed to agree that development and application of Nationwide standards, both for crossing engineering design and for placement of traffic control devices at private crossings would be beneficial.

It was noted, however, that a handful of States, as well as several individual railroads, have created standards of their own, each one different from the other.

Some attendees suggested that private crossings should be treated exactly the same as public crossings, but others believed that appropriate guidelines should be developed through partnership with AASHTO, AREMA, APTA, and the National Committee on Uniform Traffic Control Devices.

## Rights and Responsibilities

- Almost no States have jurisdiction
- Railroads have no authority over crossing use, warning devices
- Some parties uneasy about too much Federal involvement
- Others seek uniformity, permitting process, Federal funds

The responses to this question were also varied. Although the State of California asserted a willingness to continue their strong presence in the area of private crossing safety, most States indicated that they did not even have the ability to keep up with their responsibilities at public crossings, let alone private crossings.

California and Washington were concerned that Federal preemption might damage existing protections at the State level, and one railroad indicated a preference for Federal policies and recommendations instead of regulations.

Others, however, advocated more uniformity in decisionmaking through use of a permitting process overseen by the FRA; one party also suggested that the FRA should take a more proactive approach to providing funding for improvements at private crossings.

## Rights and Responsibilities

- Need documentation
- Need authority, tools to improve crossing safety
- Should involve local planning authorities

Meeting attendees agreed that in many cases, there is no documentation available assigning rights or responsibilities for safety at private crossings. Attendees indicated that such legal documents often provide a basis for negotiations to modify or close a crossing, and that their absence could render negotiations impossible.

The Association of American Railroads indicated that railroads generally lacked the authority to close or relocate private crossings, or even to require appropriate safety measures. Like numerous other States, the State of North Carolina indicated that they lacked direct authority over private crossings, and stated that they needed tools to improve safety.

By comparison, the California Public Utilities Commission stated that, unlike a great many States, they have the authority to determine necessity for crossing, and to require safety improvements. They emphasized the need, however, for the local authorities who give permission for new development to accept responsibility to address railroad safety.

## Data Collection

- Important, but:
  - Railroads receive no benefits
  - States lack resources
  - Data collectors have safety concerns

The existing National Inventory coverage of private crossing data was deemed largely inadequate for most analyses, as well as for resource allocation. Some participants suggested additional fields, others looked for greater specificity in the data currently collected. On the whole, participants agreed that safety at private grade crossings would benefit from enhanced or improved data collection.

They noted several issues, however, that would need to be resolved in order for data collection efforts to be successful. First, although the existing private crossing data are currently collected by the railroads, the railroads believe that they receive no material benefit from performing this work. They add that requiring railroads to collect additional data would impose a substantial burden.

Second, States indicated that they do not have staff to conduct an inventory, nor in many cases would they be allowed to spend public monies to inventory private property.

Thirdly, many private crossings are in remote or less safe neighborhoods, and data collectors may face some personal risks just to collect the data.



## Should the Department of Transportation seek legislation to address private crossings?

- Could be premature
- Many issues to resolve
- Might need legislation
- Basis should be to improve safety

When we raised this question, we elicited some rather spirited responses. Several participants suggested that such an action would be premature until the FRA had had time to consider the comments of the interested parties. Others noted that numerous issues would need to be resolved, including identification of crossing users, establishing crossing agreements, funding, and National security issues.

Other parties, however, strongly encouraged the FRA to seek such legislation, in order to gain enough “regulatory teeth” to control safety issues through a permitting process.

The AAR noted that, should such legislation be sought, the basis for any regulation or action by the FRA would have to be that of increased safety.

## Electronic Docket Submissions

- U.S. DOT Docket Management System
  - <http://dms.dot.gov/>
  - Docket number FRA-2005-23281

The Volpe Center and the FRA will be publishing a report based on the discussions held at the public meetings.

1 -----x

2 UNITED STATES DEPARTMENT OF TRANSPORTATION

3 FEDERAL RAILROAD ADMINISTRATION

4

5 Safety at Private Highway-Rail

6 Grade Crossings

7

8

9 Public Meeting

10

11 -----x

12

13 Public Meeting held on July 26, 2007, at 9:33 AM,

14 at the Renaissance Syracuse Hotel, 701 East Genesee Street,

15 Syracuse, New York, before Sally B. Maiorano, Registered

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1 Panel Representatives:

2

3 GRADY C. COTHEN, JR., Deputy Associate Administrator for  
4 Safety Standards and Program Development, Federal Railroad  
5 Administration

6

7 ANYA A. CARROLL, Principal Investigator, Rail and Transit  
8 Systems Division, Volpe National Transportation Systems  
9 Center

10

11 RONALD E. RIES, Staff Director, Crossing Safety & Trespass  
12 Prevention Program, Federal Railroad Administration

13

14 MIRIAM KLOEPPPEL, Highway-Rail Grade Crossing and Trespasser  
15 Safety Division, Office of Safety, Federal Railroad  
16 Administration

17

18

19 Also Present:

20

21 CLARENCE W. "IKE" SCOTT, Director of Rail Safety, New York

22 State Department of Transportation, Office of Safety and

23 Security Services

24

25

2

1 Also Present (Continued):

2

3 WILLIAM D. BURT, Chairman, Regulatory Review Committee,

4 Railroads of New York, Incorporated

5

6 STUART A. SCHWARTZ, Norfolk Southern Corporation

7

8 JAMES P. LOUIS, Secretary-Treasurer, Brotherhood of

9 Locomotive Engineers and Trainmen

10

11 GREGORY LUND, Brotherhood of Locomotive Engineers and

12 Trainmen

13

14 BRIAN K. SALTZ, General Attorney, Long Island Railroad

15

16 WILLIAM M. BROWDER, Director of Operations, Association of

17 American Railroads

18

19 JAMES STEM, Alternate National Legislative Director, United

20 Transportation Union

21

22 CAROL A. HARRIS, General Commerce Counsel, Union Pacific

23 Railroad

24

25



1 Also Present (Continued):

2

3 PHILLIP R. POICHUK, Senior Crossing Engineer, Railway Safety

4 Inspector, Engineering Branch, Transport Canada

5

6 SHANE WHITEMORE, CSX Transportation

7

8 RANDY DICKINSON, Regional Program Manager for Grade Crossing

9 Safety, Federal Railroad Administration

10

11 MARK H. McKEON, Regional Administrator, United States

12 Department of Transportation, Federal Railroad Administration

13

14 CARL FORD, Regional Director, New York State Department of

15 Transportation

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1 MR. COTHEN: Let's try to get settled if 09:33

2 we can. Can you hear me back there? Sort of? 09:33

3 Okay. Perhaps we'll try as time goes on 09:33

4 to turn up the mikes a little bit. Please be 09:33

5 generous in letting us know if you're having 09:33

6 trouble hearing anyone today. If we can't 09:33

7 communicate we can't make progress. 09:33

8 Good morning. This is the Federal 09:33

9 Railroad Administration safety inquiry on 09:33

10 private highway-rail grade crossing safety. 09:33

11 We're glad you're here today. But we 09:34

12 always start out all FRA meetings, as all 09:34

13 railroad-related meetings start out, with a 09:34

14 safety briefing. Randy Dickinson from FRA's 09:34

15 Region 1 will present the briefing. Randy? 09:34

16 MR. DICKINSON: Thanks, Grady. 09:34

17 A couple of housekeeping items. First of 09:34

18 all, for those of you who want to make 09:34  
19 comments later on, we have mikes around the 09:34  
20 room, and we can pass those around. 09:34  
21 Right outside the main doors there are 09:34  
22 the restrooms on the right. You'll notice 09:34  
23 over those two doors and these two doors back 09:34  
24 here you have exit signs in the event of the 09:34  
25 need for an emergency evacuation from the 09:34

1 building. The main entrance is down that 09:34

2 hallway. 09:34

3 There's also another entrance over here: 09:34

4 Go out the door, turn to the left, turn to the 09:34

5 left again, and they're out here. 09:34

6 For those of us at this end of the room 09:34

7 we can use these to go right out to the 09:34

8 street. 09:34

9 Is anyone CPR -- Bob. And we got the CSX 09:34

10 guys. Anybody else? So if somebody has a 09:35

11 heart attack, God forbid, or any other kind of 09:35

12 problem, these fellas will be responsible for 09:35

13 that. 09:35

14 And if we need an ambulance, anybody got 09:35

15 cell phones in the room want to be responsible 09:35

16 for calling the ambulance? Show of hands. 09:35

17 Bob, okay. And I think that should pretty 09:35

18 much be it. Did I miss anything? I guess 09:35

19 that's it. Thanks. 09:35

20 MR. COTHEN: Thank you, Randy. In a 09:35

21 minute we'll make introductions of the FRA 09:35

22 staff so you can -- and our colleagues so that 09:35

23 you can know who to contact as we proceed with 09:35

24 discussion of these issues. 09:35

25 What I'd like to very quickly ask Carl 09:35

1	Ford, who's Regional Director of New York	09:35
2	State Department of Transportation, to bring	09:35
3	greetings. Carl?	09:35
4	MR. FORD: Thank you and good morning.	09:36
5	On behalf of Governor Eliot Spitzer,	09:36
6	Commissioner Astrid Glynn, and the New York	09:36
7	State Department of Transportation, it is my	09:36
8	privilege to welcome -- excuse me. It's my	09:36
9	privilege to welcome Deputy Associate	09:36
10	Administrator Grady Cothen and the Federal	09:36
11	Railroad Administration to Syracuse for	09:36
12	today's public meeting on safety at private	09:36
13	highway-rail grade crossings.	09:36
14	Commissioner Glynn has demonstrated a	09:36
15	strong personal commitment to all modes of	09:36
16	transportation, primarily to enhance the	09:36
17	efficiency of moving people and goods, but	09:36

18	most importantly to improve the safety of the	09:36
19	transportation network.	09:36
20	The department is very pleased to have	09:36
21	the opportunity to participate in today's	09:36
22	public meeting. We trust this will be a most	09:36
23	productive session. Thank you.	09:36
24	MR. COTHEN: Thanks very much, Carl. The	09:37
25	federal Railroad Administration has a very	09:37



1 close and productive working relationship with 09:37  
2 the New York Department of Transportation, as 09:37  
3 of course as do other modes of the 09:37  
4 department -- U.S. Department of 09:37  
5 Transportation. So we're particularly pleased 09:37  
6 that we have strong participation from the 09:37  
7 New York DOT today. 09:37  
8 I want to talk just a minute about who's 09:37  
9 here and who's not here. This has been a 09:37  
10 rather frustrating exercise for all of us 09:37  
11 putting this meeting together. Those of you 09:37  
12 who followed the developments have noted that 09:37  
13 we were going to be here in February, and 09:37  
14 Administrator Boardman was going to be here. 09:37  
15 And I went up to his office that cold day, it 09:37  
16 was even cold in Washington, D.C., so you know 09:37  
17 it was cold up here, and he got on the phone 09:37

18 to the guys at New York DOT who clear the snow 09:37

19 and take care of the emergencies up here, and 09:38

20 he said, Grady, we're going to have to cancel. 09:38

21 Of course, he's the former commissioner 09:38

22 of New York State Department of 09:38

23 Transportation, so he knew who to call. 09:38

24 We tried again in April, and we had to 09:38

25 scrub the event because of a Congressional 09:38

1 hearing. And Administrator didn't want to 09:38  
2 reschedule, he said go on without me, it's 09:38  
3 embarrassing, you know. We said no, boss, we 09:38  
4 want you here. 09:38  
5 So we scheduled for today, and you 09:38  
6 guessed it, another Congressional hearing, 09:38  
7 this time before the Senate Surface 09:38  
8 Transportation Subcommittee, and it's on rail 09:38  
9 safety legislation. It's a very serious 09:38  
10 hearing for everybody involved with railroad 09:38  
11 safety, and the subcommittee of course expects 09:38  
12 the Administrator to be there. And we managed 09:38  
13 to convince the boss that that's where he 09:39  
14 needed to be to represent us. 09:39  
15 But he's very frustrated and displeased 09:39  
16 that he's not here with you today to lead this 09:39  
17 event. And he wants me -- he wanted me to 09:39

18	express his regrets that he could not be here.	09:39
19	Obviously we've made -- he had made every	09:39
20	effort to participate in this activity.	09:39
21	This is the concluding public conference	09:39
22	of our safety inquiry on private crossings.	09:39
23	We've been around the country now from	09:39
24	Minnesota to North Carolina to Louisiana to	09:39
25	California and concluding here. And at each	09:39

1	stop we've gotten a little bit different	09:39
2	perspective on the problem, and we certainly	09:39
3	learn more.	09:39
4	This is an opportunity to sort of wrap	09:39
5	up, summarize, and talk about some	09:40
6	preliminarily crystallized options for further	09:40
7	action.	09:40
8	We will do the proceeding a little bit	09:40
9	differently today because we'll save the	09:40
10	summation of what we've learned today to a	09:40
11	point in the proceedings after the initial	09:40
12	speakers for this session. And then we'll try	09:40
13	to very quickly in our own minds internalized	09:40
14	what we've learned from them and then	09:40
15	integrate that into the summary of proceedings	09:40
16	today.	09:40
17	And then in the afternoon, rather than	09:40

18	focusing on a particular topic such as	09:40
19	engineering or public/private responsibilities	09:40
20	or whatever topical kind of issues we've done	09:40
21	at some of the meetings in the past, we will	09:40
22	talk about what is preliminarily identified	09:41
23	options and ask for your participation in it.	09:41
24	Let me make sure that we have our team	09:41
25	introduced first. It's comprised of folks	09:41

1 from the FRA region headquartered at 09:41

2 Cambridge, Massachusetts, but these folks live 09:41

3 all over the place, including the state of 09:41

4 New York. 09:41

5 The second group is our highway-rail 09:41

6 crossing safety team at the Federal Railroad 09:41

7 Administration headquarters in field. 09:41

8 And the third is the team from the Volpe 09:41

9 Transportation Systems Center, Cambridge, 09:41

10 Massachusetts, which has supported and 09:41

11 continues to support this effort from the 09:41

12 beginning and is our valued partner across a 09:41

13 wide range of issues in railroad safety. 09:41

14 Let me first call on Mark McKeon, who's 09:41

15 the regional administrator for this region. 09:42

16 Mark is the dean of railroad safety. I get to 09:42

17 name the dean, and he's it, senior regional 09:42

18	administrator and jack-of-all-trades, and Mark	09:42
19	I'm sure will be proud to introduce his	09:42
20	colleagues here.	09:42
21	MR. McKEON: Thank you, Mr. Cothen. One	09:42
22	of course acquires deanship by not dying, and	09:42
23	in relating seniority, and I've managed to do	09:42
24	that.	09:42
25	I'd like to welcome everyone to FRA	09:42



1 Region 1, which is comprised of the six 09:42

2 New England states, New York, and New Jersey. 09:42

3 Accompanying me today are -- I'll ask 09:42

4 them to stand up as they're introduced -- Bob 09:42

5 Winstel is signal and train control inspector 09:42

6 headquartered in the Buffalo area. Randy 09:42

7 Dickinson we have already met, is our grade 09:42

8 crossing and trespasser program manager 09:42

9 headquartered in the Albany area. Mike 09:43

10 Grizkewitsch is our assistant grid crossing 09:43

11 and trespasser program manager who is 09:43

12 headquartered in the Boston area. 09:43

13 All these folks are available to attempt 09:43

14 to meet your needs and concerns, both on the 09:43

15 subject of private crossings and other 09:43

16 railroad safety issues. Thank you. 09:43

17 MR. COTHEN: Thanks, Mark. Ron Ries is 09:43

18 staff director for grade crossing safety and 09:43  
19 trespass prevention at the Federal Railroad 09:43  
20 Administration. He's the key guy on these 09:43  
21 program areas. And Ron will introduce our 09:43  
22 colleagues from FRA. 09:43  
23 MR. RIES: Thank you, Grady. In addition 09:43  
24 to our Region 1 crossing managers, we also 09:43  
25 have with us today Evelyn Hendricks. And 09:43

12

1 Evelyn, would you stand? She works in grade 09:43  
2 crossing safety in Region 2 and is based out 09:43  
3 of Ohio. 09:44  
4 And all the way from Chicago we have 09:44  
5 crossing managers Tammy Wagner and Michael 09:44  
6 Bennett, who are here with us as well. 09:44  
7 And I would also like to introduce, who 09:44  
8 you'll hear from later, Miriam Kloeppe. 09:44  
9 Miriam is a very valued member of -- was a 09:44  
10 very valued -- she's still very valued, but 09:44  
11 she is transitioning to a new job at FRA but 09:44  
12 still will retain grade crossing safety 09:44  
13 interest in her things. 09:44  
14 We look forward to your comments today, 09:44  
15 and if you have any grade crossing safety 09:44  
16 issues, trespass prevention, feel free to 09:44  
17 cross -- contact any of us on the crossing 09:44

18 team. Thank you. 09:44

19 MR. COTHEN: I certainly won't suggest 09:44

20 that Anya is a part of the gainships or 09:44

21 anything because she's not that old, but Anya 09:44

22 is certainly the senior staff person who's 09:44

23 worked with us over the years on grade 09:45

24 crossing safety issues and has led a variety 09:45

25 of research that's benefited all of us here 09:45

1 for a number of years. And we continue to 09:45

2 benefit from the initiatives that she has 09:45

3 helped to volunteer. 09:45

4 So Anya Carroll, will you please 09:45

5 introduce your colleagues in the Volpe Center? 09:45

6 MS. CARROLL: Good morning. Thank you 09:45

7 very much, Grady. 09:45

8 Welcome to Syracuse, New York. I hope 09:45

9 you enjoy the meeting and the space, and if 09:45

10 you have any questions, please don't hesitate 09:45

11 to ask myself or anyone of our staff. 09:45

12 In the back corner we have Mr. Glenn 09:45

13 Goulet, who is the chief of the Rail and 09:45

14 Transit Systems Division at the Volpe Center. 09:45

15 Steve Peck, who is standing by the door, is 09:45

16 one of our mechanical engineers who's been 09:45

17 helping to shepherd this effort throughout 09:45

18 these five meetings. And Mirna Gustave is out 09:45  
19 at the registration desk. She's our 09:46  
20 conference coordinator and has helped to set 09:46  
21 up this meeting and all five of them to date. 09:46  
22 So thank you very much for attending, and 09:46  
23 I hope you enjoy the day. 09:46  
24 MR. COTHEN: Thanks, Anya. Now we come 09:46  
25 to the highlight of the meeting. 09:46



18	response to the legal officer's statement.	09:47
19	The purpose of this meeting is to provide an	09:47
20	opportunity for the public to provide	09:47
21	information to the FRA about issues related to	09:47
22	safety at private highway-rail grade	09:47
23	crossings. We are here to listen to you and	09:47
24	to provide an opportunity for you to state	09:47
25	your view on the record for review and	09:47



1 consideration. 09:47

2 In order to provide an equal opportunity 09:47

3 to express your views, the following procedure 09:47

4 will be used: Anyone who wishes will be 09:47

5 permitted to make an oral statement. Persons 09:47

6 representing the same group may appear 09:47

7 together. At the beginning of your oral 09:47

8 statement please identify yourself, spell your 09:47

9 name, and identify whether you are appearing 09:47

10 as an individual or as a representative of an 09:47

11 organization. It may also be helpful to 09:47

12 provide a business card to our court reporter 09:47

13 at the time. 09:48

14 At the end of your statement FRA 09:48

15 representatives may ask questions in order to 09:48

16 obtain clarification of points made during 09:48

17 your statement. We will then move on to the 09:48

18 next person wishing to make an oral statement. 09:48

19 If you will be referring to a document in 09:48

20 your oral statement, or if you have a prepared 09:48

21 statement, please provide it to me either 09:48

22 before or after your statement so that it can 09:48

23 be added to the public docket of this meeting. 09:48

24 Today's meeting is being transcribed and 09:48

25 will become part of the public docket on this 09:48

1 issue. The transcript of this and other 09:48  
2 public meetings in this series and all other 09:48  
3 documents related to the inquiry will be 09:48  
4 available for viewing and downloading at the 09:48  
5 Department of Transportation's Docket 09:48  
6 Management System website at 09:48  
7 <http://dms.dot.gov>. 09:48  
8 The entire docket is also available for 09:48  
9 inspection at the DOT's docket facility at 09:48  
10 400 7th Street Southwest in Washington, D.C. 09:48  
11 Thank you. 09:49  
12 MR. COTHEN: Thanks, Ron. 09:49  
13 Just very preliminarily, we're here to 09:49  
14 talk about private crossings because every 09:49  
15 year 30 or 40 fatalities occur and serious 09:49  
16 injuries occur at private crossings across the 09:49  
17 nation. 09:49

18	And as Miriam will describe in more	09:49
19	detail, while we seem to be making significant	09:49
20	headway in the public crossing arena, it's	09:49
21	been more difficult to make headway with	09:49
22	respect to private crossings. The nation is	09:49
23	growing in population, and developments are	09:49
24	springing up all over the place and on both	09:49
25	sides of the railroad.	09:49



18	local property owners and others who have the	09:50
19	right to cross the railroad, and we call those	09:50
20	folks holders, holders of the right to cross,	09:50
21	and they may own the underlying property, they	09:50
22	may have a prescriptive easement, they may	09:50
23	have a license under a agreement to cross, or	09:51
24	they may just have been doing it for years and	09:51
25	it's kind of hard to stop.	09:51

1           So it's an important issue, it's one that           09:51

2   we need to share responsibility for, but we           09:51

3   also need to more carefully define specific           09:51

4   responsibilities. So that's our task today.           09:51

5           We would like to start out by hearing           09:51

6   from speakers who signed up ahead of time.           09:51

7   And they're two in number.           09:51

8           The first is Ike Scott, who's director of           09:51

9   Intermodal Projects Bureau in the Freight and           09:51

10   Economic Development Division of the New York           09:51

11   State Department of Transportation.           09:51

12           Ike's been involved in railroading issues           09:51

13   in the state of New York for a number of           09:51

14   years; we've had the pleasure to work with           09:51

15   him. We'll hear from Ike, and then Bill Burt,           09:52

16   representing Railroads in New York State, will           09:52

17   be speaking.           09:52

18	Are there others who want to make	09:52
19	preliminary statements before we begin hearing	09:52
20	from those gentlemen? Just kind of so we know	09:52
21	where we are in the agenda as we go along.	09:52
22	Okay. And then I hope everyone	09:52
23	understands that as the morning goes on, if it	09:52
24	goes into the afternoon that's good, that any	09:52
25	and all persons wishing to participate in the	09:52

19



1 discussion are encouraged to do so. And that 09:52

2 includes anybody who heard about the meeting 09:52

3 on the radio or the TV this morning or saw a 09:52

4 note in the local periodical who can bring us 09:52

5 information. That's why we're here. 09:52

6 Ike, would you come forward, please, sir, 09:52

7 and address the issue from New York State 09:52

8 perspective. We appreciate it. 09:53

9 MR. SCOTT: Thank you for the opportunity 09:53

10 to speak to this group. First I'd like to 09:53

11 correct the record a little bit. Just for the 09:53

12 record, my full name is Clarence Scott; 09:53

13 everyone knows me as Ike. 09:53

14 And also, within our organization we've 09:53

15 had a reorganization of the department, and at 09:53

16 this time I'm Director of Rail Safety, 09:53

17 Department of Transportation, in the Office of 09:53

18	Safety and Security Services.	09:53
19	As Director of Rail Safety for New York	09:53
20	DOT I welcome Federal Railroad	09:53
21	Administration's interest in private highway	09:53
22	grade crossing safety.	09:53
23	Your efforts to solicit input from across	09:53
24	the country should provide valuable	09:53
25	information to better define the scope of this	09:53

1 problem and help to identify reasonable 09:53  
2 solutions. 09:54  
3 Based on experience gained in New York 09:54  
4 since 1994, when the state legislature first 09:54  
5 granted authority for the commission of DOT to 09:54  
6 address this subject, it's become apparent 09:54  
7 that two key safety factors take priority when 09:54  
8 assessing risk at private crossings. 09:54  
9 First and foremost is the public safety 09:54  
10 risk encountered when use of a private 09:54  
11 crossing has evolved to public usage without a 09:54  
12 commensurate change in legal classification or 09:54  
13 application of national standards for warning 09:54  
14 systems. 09:54  
15 Second is the location of many of these 09:54  
16 private crossings along passenger train 09:54  
17 corridors which creates derailment potentially 09:54

18 in the event of an accident. 09:54

19 New York State has the largest commuter 09:54

20 rail and transit operations in the United 09:54

21 States, with ridership of more than 09:54

22 1.3 billion passengers per year. In addition, 09:54

23 Amtrak provides intercity passenger service 09:54

24 across the state with connections to some of 09:54

25 the busiest stations in the country. 09:54



18	warning devices at the remaining locations.	09:55
19	According to FRA inventory data, there	09:55
20	are presently 2,878 public crossings and 2,900	09:55
21	private crossings in the state, with	09:56
22	approximately 400 of these private locations	09:56
23	falling under New York's regulatory	09:56
24	jurisdiction.	09:56
25	Through state- and federally-funded	09:56

1 programs, New York now has over 70% of the 09:56  
2 public crossings equipped with active warning 09:56  
3 devices. However, it's estimated that less 09:56  
4 than 1% of private crossings have any form of 09:56  
5 active devices. There is also inconsistent 09:56  
6 application of signage at private crossings, 09:56  
7 and road profiles are often very poor. 09:56  
8 As New York State advanced efforts in the 09:56  
9 mid '90s to improve high-speed passenger 09:56  
10 service, it became necessary to expand state 09:56  
11 authority for grade crossing safety to include 09:56  
12 private crossing locations. 09:56  
13 The following problems were encountered 09:56  
14 in this effort: First, the federal inventory 09:56  
15 has significant inaccuracies with regard to 09:56  
16 private crossing locations. For example, a 09:56  
17 field review of the Amtrak rail corridors 09:56

18	revealed the existence of some new crossings	09:57
19	not in the inventory, while many crossings	09:57
20	shown on the inventory no longer existed.	09:57
21	Accurate records of the legal basis for	09:57
22	the existence of a private crossing have not	09:57
23	always been maintained regularly by involved	09:57
24	parties. There are no national standards to	09:57
25	provide guidance on safety enhancements that	09:57



1 should be utilized consistently at private 09:57  
2 crossings, including passive signs. 09:57  
3 And lastly, and most importantly, there 09:57  
4 are very limited public funding sources that 09:57  
5 can be utilized for safety improvements at 09:57  
6 private crossings. 09:57  
7 As requested, the FRA give careful 09:57  
8 consideration to address these issues as an 09:57  
9 action plan is developed from the public 09:57  
10 meetings held across the United States. I've 09:57  
11 provided testimony to enter into the docket 09:57  
12 that really outlines kind of the background of 09:57  
13 New York's laws and covers these in more 09:57  
14 detail the complications that we've 09:58  
15 encountered and provides copies of the -- a 09:58  
16 couple legal cases that we've encountered in 09:58  
17 our efforts to try to address these locations 09:58

18 and take actions to close. I would be glad to 09:58  
19 answer any questions on here. 09:58  
20 In the testimony we've addressed the ten 09:58  
21 key questions raised by the FRA, but I didn't 09:58  
22 want to bore the group with the details of all 09:58  
23 this. Whichever way you would like to go. 09:58  
24 MR. COTHEN: Very much your call, 09:58  
25 Mr. Scott. Obviously we're going to go 09:58

24

1 through things topically later today, and if 09:58

2 you would like to interject at that point, 09:58

3 feel more comfortable doing that, we would 09:58

4 love to have it. 09:58

5 MR. SCOTT: Okay. Very good. Thank you. 09:58

6 MR. COTHEN: Thank you, sir. William 09:58

7 Burt. 09:59

8 Bill is a working railroader and chairman 09:59

9 of the Regulatory Review Committee, Railroads 09:59

10 of New York, Incorporated. 09:59

11 MR. BURT: Thank you, Grady. I'm here 09:59

12 today representing the Railroads of New York. 09:59

13 I would like to acknowledge first that I 09:59

14 see several of our members here have their own 09:59

15 representation and undoubtedly have good 09:59

16 detail and background to add from their own 09:59

17 experiences and on their own railroads. 09:59

18	One of the things we've found in	09:59
19	preparing for today's testimony is that the	09:59
20	experiences of railroads differ by the type of	09:59
21	territory that they operate in. Some people	09:59
22	may be, for instance, in mountainous	09:59
23	territory, others may be running through flat	09:59
24	country and they may encounter different	09:59
25	issues in terms of design and the functioning	10:00

25

1 and the safety aspects of private crossings. 10:00

2 I'd like to comment for those who are 10:00

3 unaware of the organization what it covers 10:00

4 briefly here. 10:00

5 Railroads of New York represents the 10:00

6 freight railroad industry in New York State, 10:00

7 including the four Class I railroads, CSX, 10:00

8 Canadian National, Canadian Pacific, and 10:00

9 Norfolk Southern, and about 30 short line and 10:00

10 regional railroads. 10:00

11 RONY members carry over 99% of all goods 10:00

12 moved by rail in New York State. RONY's 10:00

13 mission is to provide a trade association for 10:00

14 all freight railroads that operate in the 10:00

15 state of New York to advocate for rights and 10:00

16 needs of railroads and their customers, as 10:00

17 well as to encourage economic growth within 10:00

18	the state of New York.	10:00
19	RONY's mission is also supported by many	10:00
20	industries, including suppliers and customers,	10:00
21	industrial users of railroads, and their	10:00
22	employees which are dependent upon New York's	10:01
23	railroads.	10:01
24	RONY advocates for a successful	10:01
25	resolution of key issues facing the rail	10:01

26

1 industry. And this issue here today is a good 10:01  
2 example of the work we do in the regulatory 10:01  
3 area. 10:01  
4 To do that work RONY has established a 10:01  
5 Regulatory Review Committee to identify state 10:01  
6 and local laws and regulations applicable to 10:01  
7 rail freight that either should be eliminated, 10:01  
8 reformed, or made more cost effective. And 10:01  
9 these comments are submitted in my capacity as 10:01  
10 chairman of the committee. 10:01  
11 I'm also the president/chief operating 10:01  
12 officer of three railroads, Livonia, Avon & 10:01  
13 Lakeville Railroad, the B & H Rail Corp., and 10:01  
14 the Western New York & Pennsylvania Railroad. 10:01  
15 And at the present time those railroads in 10:01  
16 New York and Pennsylvania operate just under 10:01  
17 400 miles of track. 10:01

18	So we've had in our own specific	10:01
19	experience some experience with private	10:02
20	crossings as we have brought some of those	10:02
21	lines back from inactivity to higher levels of	10:02
22	activity, which usually brings these issues	10:02
23	into some focus.	10:02
24	I'd like to just talk briefly about	10:02
25	what's in 19 pages of testimony that's in the	10:02

27



1 docket as of a couple of days ago. It -- I 10:02  
2 haven't figured out how to make a .pdf file 10:02  
3 yet that isn't a monster, so it may be too 10:02  
4 big, and if it is feel free to contact me 10:02  
5 through either anyone here that can provide my 10:02  
6 name, I would be happy to send a printed copy, 10:02  
7 and I have nine extra copies here, ten extra I 10:02  
8 guess actually counting the one in my hand, 10:02  
9 that I would be happy to leave behind here 10:02  
10 with anyone who's interested in having a copy. 10:02  
11 I'll summarize briefly by saying that in 10:02  
12 New York State we find we have three types of 10:02  
13 crossings, typically. They are deeded 10:03  
14 crossings, which is a catchall term that can 10:03  
15 cover something that was agreed to at the time 10:03  
16 that the railroad acquired the property or 10:03  
17 acquired a right-of-way in some cases across 10:03

18 the property. That deed is usually in the 10:03  
19 nature of a covenant or an easement. It may 10:03  
20 be in many cases more than 150 years old at 10:03  
21 this point. 10:03  
22 And so the record keeping on a lot of 10:03  
23 that has suffered through the decades of 10:03  
24 railroad bankruptcies, transitions, property 10:03  
25 changes, you know. And people who wonder why 10:03

1 all this isn't perfect should take into 10:03  
2 account the fact that on some of the lines 10:03  
3 that we've revived in my own experience we've 10:03  
4 found houses built on railroad property. How 10:03  
5 that came to be, how the building code officer 10:03  
6 permitted that, how the town board, 10:03  
7 responsible officials permitted that no one 10:03  
8 knows, but if that can happen, surely it 10:04  
9 suggests there's a little bit of chaos out 10:04  
10 there in some of these places relating to the 10:04  
11 record keeping. And it varies jurisdiction by 10:04  
12 jurisdiction. 10:04  
13 Deeded crossings are often not available. 10:04  
14 The language, the text, the documentation not 10:04  
15 available to the current operator, as I said, 10:04  
16 because of bankruptcies, a lot of that 10:04  
17 documentation may have disappeared about 30 or 10:04

18 40 years ago and never was passed on. 10:04

19 What you typically get in a short line 10:04

20 environment, and here I speak from a short 10:04

21 line perspective, is that if you're taking 10:04

22 over a line that is being leased or acquired 10:04

23 from a Class I, you're going to get a 10:04

24 quitclaim deed or a as-is, where-is type 10:04

25 lease. 10:04

1           And so you attempt to obtain in that           10:04

2           transaction as much documentation as you can,           10:04

3           but you won't necessarily get perfection; a           10:04

4           long ways from it.           10:04

5           The Class Is are normally very           10:05

6           cooperative in that effort, but again, they're           10:05

7           starting from a standpoint of not necessarily           10:05

8           having all the information as well.           10:05

9           There's deeded crossings, then there is a           10:05

10          more -- a limited category of recent, let's           10:05

11          say within the last 50 years or 30 years in           10:05

12          some cases, licenses, license agreements.           10:05

13          They're actually fairly rare in our           10:05

14          experience, although larger railroads may have           10:05

15          a different experience.           10:05

16          The large railroads at this point are           10:05

17          typically, judging from the printed material           10:05

18 on their websites, very reluctant to grant new 10:05  
19 crossings. 10:05  
20 Norfolk Southern, I'll single that out as 10:05  
21 an example, is very blunt on the real estate 10:05  
22 page, and this is in my testimony quoted, 10:05  
23 essentially they say the only safe crossing is 10:05  
24 no crossing. And they go on to say they work 10:05  
25 hard to eliminate crossings in compliance with 10:05

30

1 long-standing state and federal policies to 10:05  
2 reduce the number of crossings. 10:06  
3 I think all of us in the business who 10:06  
4 have respect for the demands of the track and 10:06  
5 what's needed to establish and build up and 10:06  
6 keep good track understand that crossings 10:06  
7 present a variety of problems, and that's 10:06  
8 worth talking about here today if people have 10:06  
9 the interest, because that's underlying some 10:06  
10 safety issues or potential safety issues. 10:06  
11 Last but not least, in New York State you 10:06  
12 have Section 52 of the Railroad Law, which 10:06  
13 mandates essentially a crossing on demand 10:06  
14 under certain highly limited circumstances 10:06  
15 that are referred to as either farm crossings 10:06  
16 or timber extraction crossings. 10:06  
17 The people who believe that they have a 10:06

18 right to a crossing under Section 52 10:06

19 ordinarily take a much more expansive view of 10:06

20 that right than the law actually provides. 10:06

21 And the other thing that bears on this is 10:07

22 that as Section 52 is fairly specific -- 10:07

23 because it's fairly specific about what 10:07

24 qualifies for those crossings, when the 10:07

25 circumstances change, that crossing can be 10:07

31



1 removed and is no longer something that's an 10:07  
2 entitlement. 10:07  
3 So that's something that the people 10:07  
4 that -- the landowners that the railroads deal 10:07  
5 with ordinarily tend not to understand very 10:07  
6 well. So there's a great deal of, shall we 10:07  
7 say, learning that goes on where the 10:07  
8 conversations occur. 10:07  
9 But that will bring me to my final 10:07  
10 comments here. We do appreciate the effort, 10:07  
11 and Grady, I want to thank you personally, 10:07  
12 because I know that you think long and hard 10:07  
13 about areas in which the FRA might have 10:07  
14 overlooked anything in safety, and I think 10:07  
15 that may be part of what I see here, is that 10:07  
16 there is a problem, it is a varying problem, 10:07  
17 in some places a large one, in other places a 10:08

18 small one, but it's clearly not working as it 10:08  
19 should, the system that's in place. 10:08  
20 So -- and part of it I would describe 10:08  
21 simply as a breakdown in the function of -- 10:08  
22 you can almost say the rule of law, because as 10:08  
23 railroads, especially small railroads, attempt 10:08  
24 to defend and act upon their property rights, 10:08  
25 they find that they're not being upheld in 10:08

1 many cases, and so we are actually in many 10:08  
2 cases unable to do what we know to be right 10:08  
3 because we are faced with either excessive 10:08  
4 litigation or an unfriendly hearing in a court 10:08  
5 of law, perhaps. 10:08  
6       So it's an issue that's worthy of 10:08  
7 discussion. I don't think -- certainly I 10:08  
8 don't come here with any total answer to this, 10:08  
9 and I doubt that many of our railroads do. 10:08  
10       We've all -- we've talked -- those of us 10:08  
11 out in the audience talked with our track 10:09  
12 people about this issue, we're well aware that 10:09  
13 there's an ongoing issue that we all live 10:09  
14 with, and as you said in your opening 10:09  
15 comments, have largely borne the burden of 10:09  
16 over the past several years and with varying 10:09  
17 degrees of success. 10:09



1 to something that's probably obvious to most 10:09  
2 in the room but nevertheless deserves to be 10:09  
3 said. 10:09  
4 And that is that there are an awful lot 10:09  
5 of people who have an interest in safety at 10:09  
6 private highway-rail crossings. They include, 10:09  
7 among others, railroad employees who operate 10:10  
8 equipment over these crossings, trains, 10:10  
9 high-rail vehicles over those crossings, and 10:10  
10 who may be adversely affected by a collision 10:10  
11 with a heavy motor vehicle who will definitely 10:10  
12 be affected by any collision that involves a 10:10  
13 casualty, because that's not something that 10:10  
14 that employee in most cases can prevent, yet 10:10  
15 that employee becomes an unwilling witness. 10:10  
16 All users of that crossing are 10:10  
17 potentially affected if appropriate safety 10:10

18	measures are not provided, including a person	10:10
19	who has the whatever legal right it is to	10:10
20	cross, and those -- that person's personal	10:10
21	guests, business guests, others who may happen	10:10
22	to be on the property and try to negotiate	10:10
23	that crossing.	10:11
24	Others in the community are potentially	10:11
25	affected. A collision with a heavy vehicle at	10:11

1 a highway-rail crossing can result in 10:11  
2 derailment of a train. And that can affect 10:11  
3 passengers on board or it can affect members 10:11  
4 of the community as a result of release of 10:11  
5 hazardous materials. 10:11  
6 So this is a -- an issue that has -- 10:11  
7 should have broad interest, but as it happens, 10:11  
8 that broad interest is spread very thin in the 10:11  
9 sense that we've got a lot of these crossings, 10:11  
10 they're all over the country, and the 10:11  
11 manifestations of the risk which they present 10:11  
12 are not always evident to each of us in our 10:11  
13 normal daily lives. 10:11  
14 So that's the issue that we've got, and I 10:11  
15 think you've heard from a public policy and a 10:11  
16 railroad point of view what perspectives we 10:11  
17 have here in the state of New York. 10:12

18	Before we have the beginning of a	10:12
19	recapitulation of the findings to date, are	10:12
20	there any others -- I'll make one other	10:12
21	invitation -- are there others, any member of	10:12
22	the public, other person here who would like	10:12
23	to make official remarks before we proceed?	10:12
24	Because that's what we're here for.	10:12
25	We have tried to make a -- as you can	10:12

35



1 see, there's -- we've had press in and out 10:12

2 this morning. We've had -- made every effort 10:12

3 to try to contact press so that those who may 10:12

4 be affected by this issue could come and talk. 10:12

5 Okay, not hearing from anybody now 10:12

6 doesn't mean you're foreclosed from speaking 10:12

7 later. Please feel free to do so as we get 10:12

8 into the topical discussion. 10:12

9 At this point I would like to call on 10:12

10 Miriam Kloeppel. And Miriam will be giving 10:12

11 you a recapitulation of issues and findings to 10:13

12 date. Miriam? 10:13

13 MS. KLOEPPEL: Good morning, everyone. 10:13

14 There we go. I thought I would actually start 10:13

15 on the first page here. 10:13

16 My plan was actually to start off with a 10:13

17 very brief reminder of why we're looking into 10:13

18 this issue at all. 10:13

19 Just last week on July 17th of this 10:13

20 year a northbound Amtrak train collided with a 10:13

21 tractor-semi-trailer combination vehicle 10:13

22 loaded with scrap metal at a private grade 10:13

23 crossing near Plant City, Florida. 10:13

24 This accident is currently under 10:13

25 investigation, but we do have some preliminary 10:13

1 data available. Current reports state that 10:13  
2 both locomotives and nine passenger cars 10:13  
3 derailed but remained upright. Between 16 and 10:14  
4 18 passengers were treated, and as much as 10:14  
5 five train crew members were treated for 10:14  
6 injuries sustained in this accident. 10:14  
7 The accident crossing lies on an access 10:14  
8 road to an industrial area and is equipped 10:14  
9 with crossbuck signs. Reports indicate that 10:14  
10 the truck driver was ejected from his vehicle 10:14  
11 and that he sustained fatal injuries. 10:14  
12 Because accidents like this occur all the 10:14  
13 time, and have for quite some time, private 10:14  
14 crossing safety has for some time been a 10:14  
15 matter of concern to the U.S. Department of 10:14  
16 Transportation and to other federal agencies. 10:14  
17 In 1993 the FRA hosted an open meeting to 10:14

18	initiate industry-wide discussions. In its	10:14
19	1994 Rail-Highway Safety Action Plan the	10:15
20	United States Department of Transportation	10:15
21	proposed to develop national minimum standards	10:15
22	for private crossings.	10:15
23	In its 1997 study on safety at passive	10:15
24	grade crossings, the NTSB, National	10:15
25	Transportation Safety Board, highlighted the	10:15

1 need for some system to improve private 10:15

2 crossing safety and recommended that the U.S. 10:15

3 DOT in conjunction with the states determine 10:15

4 governmental oversight responsibility for 10:15

5 safety at private crossings. 10:15

6 In 1999 the NTSB weighed in again in its 10:15

7 report on a private grade crossing accident in 10:15

8 Portage, Indiana. In this case the NTSB 10:15

9 recommended that the DOT eliminate any 10:15

10 differences between public and private 10:15

11 crossings with regard to funding or 10:15

12 requirements for safety improvements. 10:15

13 In 2004 the U.S. DOT published an updated 10:15

14 action plan in which the FRA committed to 10:15

15 leading an effort to define responsibility for 10:16

16 safety at private crossings. As with the 10:16

17 other meetings, today's meeting is a vital 10:16

18 part of this effort. 10:16

19 The FRA maintains offices in each of 10:16

20 eight geographical regions across the nation, 10:16

21 and as you can see, regardless of the region, 10:16

22 private crossings constitute a significant 10:16

23 percentage of all at-grade crossings. The 10:16

24 total count nationwide is about 94,000 private 10:16

25 crossings. 10:16

1	Although accidents at public crossings	10:16
2	have declined considerably over the last 20	10:16
3	years, declining by one-third over the past	10:16
4	decade alone, the number of accidents at	10:16
5	private crossings has remained comparatively	10:16
6	stable, declining only 10% in the last decade.	10:16
7	In most years the number of fatalities	10:16
8	occurring in accidents of private crossings	10:17
9	exceeded the number of on-duty deaths among	10:17
10	railroad employees in all rail operations.	10:17
11	To gather information on the current	10:17
12	state of the art, as well as ideas about	10:17
13	possible solutions to existing problems, the	10:17
14	FRA's held a series of public meetings. And	10:17
15	as you can see, the -- we started in Fort	10:17
16	Snelling, Minnesota, last August, went to	10:17
17	Raleigh, North Carolina, San Francisco,	10:17

18 California, New Orleans, Louisiana, and 10:17  
19 intended to be here, as Grady mentioned, in 10:17  
20 February. But since Grady has already 10:17  
21 capitulated the reasons for our being here 10:17  
22 today, I'm not going to dwell on it anymore. 10:17  
23 What my plan here was -- at this point 10:17  
24 was to summarize the -- what we got out of the 10:17  
25 participant comments at these previous 10:18



1 meetings. And in the act of summarizing these 10:18  
2 things we actually came across basically these 10:18  
3 basic categories. 10:18  
4 We have some general comments. There was 10:18  
5 much discussion of grade crossing 10:18  
6 categorization; also in -- much discussion of 10:18  
7 the design and signage standards, rights and 10:18  
8 responsibilities, and data needs. 10:18  
9 At each meeting a number of attendees 10:18  
10 emphasize the difficulty in approaching a 10:18  
11 solution to the problem of safety at private 10:18  
12 crossings. Most states, for example, 10:18  
13 indicated that they had little or no 10:18  
14 jurisdiction to effect decisions about 10:18  
15 creation of private crossings or, except in 10:18  
16 fairly limited ways, even to determine the 10:18  
17 traffic control devices placed at such 10:18

18	crossings.	10:18
19	Railroads indicated that although safety	10:18
20	at all grade crossings was a matter of vital	10:18
21	interest them, they were often powerless to	10:19
22	induce private landowners to make needed	10:19
23	improvements. Railroads also noted that they	10:19
24	receive no benefits from the existence of most	10:19
25	private crossings; that benefits, in fact,	10:19

1 fall almost entirely to the holder of the 10:19

2 right to cross. 10:19

3 And as I mentioned, we also indicated 10:19

4 that the types of users and the types of 10:19

5 crossings in fact are extremely varied, as 10:19

6 Grady mentioned, all the different populations 10:19

7 that can be affected by this. 10:19

8 The FRA asked a series of questions in 10:19

9 this initiative's Federal Register Notice. 10:19

10 One of these was how should we justify 10:19

11 crossing creation or continuation. 10:19

12 Many meeting attendees indicated that 10:19

13 there is currently no process in place to help 10:19

14 the parties involved make decisions that 10:20

15 consider safety issues at private crossings. 10:20

16 Several parties, including the 10:20

17 Brotherhood of Railroad Signalmen and Citizens 10:20

18	for Railroad Safety, advocated fairly	10:20
19	aggressive elimination of private crossings by	10:20
20	prohibiting the creation of new crossings or	10:20
21	by closing and consolidating existing private	10:20
22	crossings. Other parties pointed out that	10:20
23	this was more difficult than it sounded, with	10:20
24	the New Orleans and Gulf Coast Railroad	10:20
25	stating that in their case local authorities	10:20

1 gave them little or no support in their 10:20

2 efforts to close redundant crossings or to 10:20

3 prevent new ones. 10:20

4 Some private crossing holders perceive 10:20

5 the current methods for addressing close -- 10:20

6 crossing closure to be unfair, giving them 10:20

7 little or no input into how their property 10:20

8 would be affected. 10:20

9 The state of North Carolina, however, 10:20

10 appears to have had some success at resolving 10:20

11 these types of -- of apparently conflicting 10:21

12 interests by partnering with all of the 10:21

13 interested parties to improve safety at the 10:21

14 private crossings. 10:21

15 On to the second of these general 10:21

16 categories, meeting attendees provided a long 10:21

17 list of the various ways in which crossings 10:21

18 could be categorized. They asserted that it 10:21  
19 would be difficult to revise the inventory to 10:21  
20 come -- encompass all possible types of 10:21  
21 crossings and expressed concern that by 10:21  
22 overspecifying crossing categories the 10:21  
23 railroads might find it much more difficult to 10:21  
24 arrange crossing consolidations and closures. 10:21  
25 Later discussions focused on the benefits 10:21

1 of creating a category known as public use, in 10:21

2 which a crossing where the roadway is owned by 10:21

3 somebody other than a public agency but to 10:21

4 which the public had an expectation of free 10:22

5 access would be established. 10:22

6 Can I get that out of there? No, I 10:22

7 can't. Pardon me, I'm going deal with some 10:22

8 technical issues here. I just wanted to be 10:22

9 sure I got to the right slide. Good, I've 10:22

10 gotten rid of the extraneous thing. Sorry 10:22

11 about that. 10:22

12 In expanding on the public use 10:22

13 categorization, attendees centered on -- 10:23

14 centered the discussion around the instances 10:23

15 where land use changes. As land is developed, 10:23

16 a farm field-to-field crossing can become 10:23

17 access to a large residential development or 10:23

18 even a commercial establishment like a 10:23  
19 shopping center. 10:23  
20 Attendees stated that when this occurs 10:23  
21 the amount of highway traffic can increase 10:23  
22 dramatically, and the risk of a crossing will 10:23  
23 rise with it. 10:23  
24 Attending railroad representatives stated 10:23  
25 that in most states there's no mechanism for 10:23



1 alerting the railroad to any such change in 10:23  
2 use at a private crossing. They indicated 10:23  
3 that in their experience the state of 10:23  
4 California is unique in its ability to 10:23  
5 identify such land use changes and to effect 10:23  
6 crossing improvements at such private 10:23  
7 crossings. 10:23  
8 Under the California Environmental 10:23  
9 Quality Act, the California Public Utilities 10:23  
10 Committee -- Commission, excuse me, the CPUC, 10:23  
11 has the authority to review all proposed 10:24  
12 developments concerning potential impact on 10:24  
13 public safety. They have done so for the past 10:24  
14 three years. 10:24  
15 In the CPUC's opinion, the best time to 10:24  
16 identify land use changes is when the 10:24  
17 development is undergoing the planning and 10:24

18 permitting process. For this reason they 10:24  
19 strongly advocate involving local permitting 10:24  
20 authorities. 10:24  
21 Even where land use is not changing, 10:24  
22 attendees agreed that it was important to 10:24  
23 identify existing private crossings with 10:24  
24 public use. One participant suggested that it 10:24  
25 would be most valuable to identify whether the 10:24

1 public has an expectation of free access to 10:24  
2 the private roadway. 10:24  
3 Another of the questions the FRA asked in 10:24  
4 its Federal Register Notice was should there 10:24  
5 be nationwide standards for signs and roadway 10:24  
6 design. 10:24  
7 Meeting attendees all seemed to agree 10:24  
8 that development and application of nationwide 10:24  
9 standards, both for crossing engineering 10:24  
10 design and for placement of traffic control 10:25  
11 devices at private crossings would be 10:25  
12 beneficial. It was noted, however, that a 10:25  
13 handful of states as well as several 10:25  
14 individual railroads have created standards of 10:25  
15 their own, each one different from the other. 10:25  
16 Some attendees suggested that private 10:25  
17 crossings should be treated exactly the same 10:25

18 as public crossings, but others believed that 10:25  
19 appropriate guidelines should be developed 10:25  
20 through partnership with AASHTO, AREMA, APTA, 10:25  
21 the National Committee on Uniform Traffic 10:25  
22 Control Devices. Now, AASHTO -- someone may 10:25  
23 need to help me out on it this -- is the 10:25  
24 Association -- America -- 10:25  
25 MR. BROWDER: American Association of 10:25

45

1 State Highway and Transportation Officials. 10:25

2 MS. KLOEPPEL: Thank you, Mr. Browder. 10:25

3 And AREMA. 10:25

4 MR. BROWDER: American Railroad 10:25

5 Engineering and Maintenance-of-Way 10:25

6 Association. 10:25

7 MS. KLOEPPEL: APTA is the American 10:25

8 Public Transit Association, is it not? 10:25

9 MR. COTHEN: Transportation. 10:26

10 MS. KLOEPPEL: Transportation? 10:26

11 MR. BROWDER: Transportation, that's 10:26

12 right. Thank you, Grady. 10:26

13 MS. KLOEPPEL: I knew I would need help. 10:26

14 I appreciate it. 10:26

15 Another of the questions was are 10:26

16 innovative traffic control devices available. 10:26

17 Although most attendees agreed that the 10:26

18	development of less expensive warning devices	10:26
19	could be beneficial, none had found one that	10:26
20	provided enough of a cost reduction or enough	10:26
21	of a safety improvement to justify their use	10:26
22	on a system-wide basis.	10:26
23	Further comments suggested that railroads	10:26
24	could not use non-fail-safe options because of	10:26
25	liability considerations.	10:26

1           Should state or federal government assume           10:26  
2           greater responsibility?           10:26  
3           Although the state of California asserted           10:26  
4           a willingness to continue their strong           10:26  
5           presence in the area of private crossing           10:26  
6           safety, most states indicated that they did           10:26  
7           not even have the ability to keep up with           10:27  
8           their responsibilities at public crossings,           10:27  
9           let alone private crossings. California and           10:27  
10          the state of Washington were concerned that           10:27  
11          federal preemption might damage existing           10:27  
12          protections at the state level, and one           10:27  
13          railroad indicated a preference for federal           10:27  
14          policies and recommendations instead of           10:27  
15          regulations.           10:27  
16          Others, however, advocated more           10:27  
17          uniformity in decision making through use of a           10:27

18	permitting process overseen by the FRA. One	10:27
19	party also suggested that the FRA should take	10:27
20	a more proactive approach to providing funding	10:27
21	for improvements at private crossings.	10:27
22	Is the current assignment of	10:27
23	responsibility effective?	10:27
24	Meeting attendees agreed that in many	10:27
25	cases there is no documentation available	10:27



1 assigning rights and responsibilities, as we 10:27  
2 just heard this morning. Attendees indicated 10:28  
3 that such legal documents often provide a 10:28  
4 basis for negotiations to modify or close a 10:28  
5 crossing and that their absence could render 10:28  
6 negotiations impossible. 10:28  
7 The Association of American Railroads 10:28  
8 indicated that railroads generally lacked the 10:28  
9 authority to close or relocate private 10:28  
10 crossings or even to require appropriate 10:28  
11 safety measures. Like numerous other states, 10:28  
12 the state of North Carolina indicated that 10:28  
13 they lacked direct authority over private 10:28  
14 crossings and stated that they needed tools to 10:28  
15 improve safety. 10:28  
16 By comparison, the California Public 10:28  
17 Utilities Commission stated that, unlike a 10:28

18	great many states, they have the authority to	10:28
19	determine the necessity for a crossing and to	10:28
20	require safety improvements. They emphasize	10:28
21	the need, however, for the local authorities	10:28
22	who give permission for new development to	10:28
23	accept responsibility to address railroad	10:28
24	safety.	10:28
25	How should improvement or maintenance	10:29

1 costs be allocated? 10:29

2 Not too surprisingly, there was little 10:29

3 agreement between attendees on this issue. 10:29

4 Currently, the allocation of costs vary 10:29

5 according to state and according to any 10:29

6 existing agreements between the railroads and 10:29

7 crossing holders. 10:29

8 The state of Wisconsin explained that in 10:29

9 many cases states and local authorities lacked 10:29

10 the funds and/or the staff to assume 10:29

11 responsibility for the maintenance of private 10:29

12 roadways. The Association of American 10:29

13 Railroads suggested that the private crossing 10:29

14 user should bear the costs, while other 10:29

15 proposed various schemes for sharing the costs 10:29

16 between the government and the private 10:29

17 crossing user. 10:29

18	The state of North Carolina pointed out	10:29
19	that there are generally no state or federal	10:29
20	funds available for improvements at private	10:29
21	crossings and suggested that the stakeholders,	10:29
22	federal, state, and local governments, transit	10:29
23	authorities, railroads, and private crossing	10:30
24	holders, should develop a methodology to share	10:30
25	the costs associated with grade crossing	10:30

1	safety treatment, construction, and	10:30
2	maintenance.	10:30
3	Is there a need for alternative dispute	10:30
4	resolution mechanisms?	10:30
5	In most states disputes must be solved	10:30
6	through direct interaction between the	10:30
7	railroad and the crossing holder. A process	10:30
8	that is cumbersome and fraught with	10:30
9	difficulties for both parties.	10:30
10	Representatives of the New Orleans and	10:30
11	Gulf Coast Railroad indicated that their	10:30
12	ability to negotiate is weakened by the lack	10:30
13	of any federal standards or guidelines and	10:30
14	that therefore their negotiations often fail.	10:30
15	Failed negotiations may be resolved in a court	10:30
16	of law.	10:30
17	Both the railroads and the states,	10:30

18	however, indicated that local courts may be	10:30
19	biased in favor of the crossing holder, and	10:30
20	lack of federal standards has made it	10:31
21	difficult for railroads to establish	10:31
22	jurisdiction in federal courts.	10:31
23	The state of California indicated that	10:31
24	the CPUC allows for administrative legal	10:31
25	review and has a dispute resolution process in	10:31

1 place. They suggested that because of the 10:31  
2 legal issues involving property rights, 10:31  
3 contract law -- and contract law, 10:31  
4 responsibility for dispute mechanisms should 10:31  
5 remain with the states and that federal 10:31  
6 guidelines or recommendations could assist 10:31  
7 states that do not currently have dispute 10:31  
8 resolution processes. 10:31  
9 The discussion on data collection 10:31  
10 indicated that the existing national inventory 10:31  
11 coverage of private crossing data is largely 10:31  
12 inadequate for most analyses as well as for 10:31  
13 resource allocation. Some participants 10:32  
14 suggested additional fields; others looked for 10:32  
15 greater specificity in the data currently 10:32  
16 collected. 10:32  
17 On the whole, participants agreed that 10:32

18	safety at private grade crossings would	10:32
19	benefit from enhanced or improved data	10:32
20	collection. They noted several issues,	10:32
21	however, that would need to be resolved in	10:32
22	order for data collection efforts to be	10:32
23	successful.	10:32
24	First, although the existing private	10:32
25	crossing data are currently collected by the	10:32



1 railroads, the railroads believe that they 10:32  
2 receive no material benefit from performing 10:32  
3 this work. They add that requiring railroads 10:32  
4 to collect additional data would impose a 10:32  
5 substantial burden. 10:32  
6 Second, states indicated that they do not 10:32  
7 have staff to conduct an inventory, nor in 10:32  
8 many cases would they be allowed to spend 10:32  
9 public monies on inventorying private 10:32  
10 property. 10:32  
11 Thirdly, many private crossings are in 10:32  
12 remote or less safe neighborhoods, and data 10:33  
13 collectors may face some personal risks just 10:33  
14 to collect data. 10:33  
15 Should the Department of Transportation 10:33  
16 seek legislation to address private crossings? 10:33  
17 When we raised this question we elicited 10:33

18	some rather spirited responses. Several	10:33
19	participants suggested that such an action	10:33
20	would be premature until the FRA had had time	10:33
21	to consider the comments of the interested	10:33
22	parties. Others noted that numerous issues	10:33
23	would need to be resolved, including	10:33
24	identification of the crossing users,	10:33
25	establishing crossing agreements, funding,	10:33

1 national security issues. 10:33

2 Other parties, however, strongly 10:33

3 encouraged the FRA to seek such legislation -- 10:33

4 why I write a sentence that's so difficult to 10:33

5 say I'm not sure -- in order to gain enough 10:33

6 regulatory teeth to control safety issues 10:34

7 through a permitting process. 10:34

8 The Association of American Railroads 10:34

9 noted that should such legislation be sought, 10:34

10 the basis for any regulation or action by the 10:34

11 FRA would have to be that of increasing 10:34

12 safety. 10:34

13 This actually concludes my summarizing 10:34

14 the comments from the previous meetings. And 10:34

15 I'd like to know, does anyone have any 10:34

16 questions or statements? Mr. Browder. 10:34

17 MR. BROWDER: Bill Browder from the 10:34

18 Association of American Railroads, Miriam. 10:34

19 Just an administrative question. I know 10:34

20 that your statement will be made part of a 10:34

21 docket, but could I ask that you ensure that 10:34

22 the PowerPoint presentation be posted on the 10:34

23 docket also so people can have access to the 10:35

24 update that's contained in there? 10:35

25 MS. KLOEPPPEL: I would be glad to do 10:35

1 that. 10:35

2 MR. BROWDER: Great. 10:35

3 MS. KLOEPPEL: Other questions? Thank 10:35

4 you. 10:35

5 MR. COTHEN: Thank you, Miriam. Okay. 10:35

6 We've had preliminaries and some introductory 10:35

7 statements, summary of the work to date. We 10:35

8 need to take a break. 10:35

9 Let's do that and please be back at ten 10:35

10 minutes before the hour. Thank you. 10:35

11 (A brief recess was taken from 10:35 AM until 10:35

12 10:55 AM.) 10:35

13 MR. COTHEN: If we can ask folks to begin 10:55

14 to move toward their seats. 10:55

15 Around the country in any given year 10:56

16 there are a number of events that focus on how 10:56

17 railroad crossing safety wanted to feature the 10:56

18 next regional activity. 10:56

19 Ike, would you go ahead, please? 10:56

20 MR. SCOTT: I just wanted to make a quick 10:56

21 announcement that this year the Regional 10:56

22 Railroad Grade Crossing Conference is go to be 10:56

23 held in New York in the Albany area at the 10:56

24 beginning of October, I believe. Bill, I 10:56

25 think it's October 3rd? Bill Browder? 10:56

1           And I'd like to welcome everybody to 10:56  
2 attend. There will be information posted on 10:56  
3 it on our website very soon. Bill, that 10:56  
4 conference was October 3rd? 10:56  
5           MR. BROWDER: October the 2nd to 4th at 10:57  
6 the Holiday Inn in Albany, New York. And it's 10:57  
7 for the Eastern region, which is all of 10:57  
8 New England and down through Virginia, as a 10:57  
9 matter of fact, and through Pennsylvania. 10:57  
10 It's Regions 1 and 2. 10:57  
11           And Randy Dickinson up here can also 10:57  
12 help, besides Ron and his staff there in 10:57  
13 Washington, D.C. 10:57  
14           MR. SCOTT: We're just organizing now, 10:57  
15 and we're looking for anybody that would like 10:57  
16 to do a presentation at the conference. We 10:57  
17 welcome input. Thank you. 10:57

18 MR. COTHEN: Very good. Thank you, sir, 10:57  
19 for that commercial announcement. Not 10:57  
20 commercial announcement, of course. These 10:57  
21 conferences are put together as a labor of 10:57  
22 love to try to address these issues, and we 10:57  
23 appreciate it. 10:57  
24 We've got two representatives of the 10:57  
25 Connecticut Department of Transportation here 10:58

55



1 today, Julie Thomas and Stephen Curley. Could 10:58

2 you all say hello there? 10:58

3 We're glad you're here and obviously 10:58

4 invite your active participation in the 10:58

5 discussion to follow. 10:58

6 I'd also like to point out, very often, 10:58

7 you know, you get the Office of the Inspector 10:58

8 General, the General Accounting Office, the 10:58

9 press, they all want know do you ever talk to 10:58

10 your colleagues internationally, you might 10:58

11 learn something. And actually, we do with 10:58

12 some regularity. Phil Poichuk from Transport 10:58

13 Canada is here. 10:58

14 Phil, would you just stand and -- thank 10:58

15 you very much for being here. We are in 10:58

16 conversation with Transport Canada about these 10:58

17 and many other railroad safety issues on a 10:58

18 regular basis, and it's great that Phil could 10:58  
19 come down and be here for this meeting. 10:58  
20 Okay. I think that's the introductions 10:59  
21 for now. 10:59  
22 The next order of business is not an easy 10:59  
23 one to pull off, I think. We have a 10:59  
24 PowerPoint to sort of guide the discussion. 10:59  
25 You have in your packet a one-page list of 10:59

1 questions that we initially brought to this 10:59

2 activity, and we started in Fort Snelling and 10:59

3 it's still open for comment in the docket. 10:59

4 The -- and I believe it's correct to say, 10:59

5 Miriam, that that docket remains open 10:59

6 indefinitely at this point? 10:59

7 MS. KLOEPPPEL: Yes, sir. 10:59

8 MR. COTHEN: When we say indefinitely, 10:59

9 don't figure it's going to go on forever, 10:59

10 because it's not. What we're going to try to 10:59

11 do is this fall include a report that will be 11:00

12 prepared with the assistance of the Volpe 11:00

13 Center and then specific recommendations to 11:00

14 Administrator Boardman and the Secretary 11:00

15 regarding how to proceed in this area. And 11:00

16 we'll bring it together as quickly as we can. 11:00

17 But certainly within the next few weeks 11:00

18	following this meeting you would be safe to	11:00
19	submit any additional thoughts that you have	11:00
20	and could be sure that they would be	11:00
21	considered.	11:00
22	There is also in your pocket a draft for	11:00
23	discussion captioned safety and highway-rail	11:00
24	crossing alternative approach discussion	11:00
25	topics. That document is in three sections.	11:00

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1 The first section is a set of suggested 11:00  
2 findings. The second two portions consist of 11:00  
3 two kind of generic alternative approaches to 11:00  
4 the subject matter. 11:01  
5 What we've done for this discussion is to 11:01  
6 skip over the findings, which I really -- I 11:01  
7 won't -- I'll invite comment on that, but the 11:01  
8 purpose of this PowerPoint presentation is to 11:01  
9 focus on the two alternative approaches. And 11:01  
10 as you can imagine, one of them is sort of a 11:01  
11 voluntary initiative package. The other is 11:01  
12 your usual heavy-handed federal approach. And 11:01  
13 we don't believe for a moment that the 11:01  
14 individual items in those are mutually 11:01  
15 exclusive necessarily, except for in some 11:01  
16 limited respects. 11:01  
17 So we can certainly pick from either 11:01

18 column, and we can mix and match. And that 11:01  
19 should certainly be part of the discussion 11:01  
20 today. We don't want to put ourselves in the 11:01  
21 context of an either/or kind of discussion; 11:02  
22 however, we did want to present preliminary 11:02  
23 options in a specific enough way so as to 11:02  
24 elicit as much feedback as possible. That was 11:02  
25 our purpose. 11:02

1           So I believe you've had the opportunity           11:02

2   to have access prior to today to these, but if           11:02

3   you haven't because you weren't on our email           11:02

4   list or whatever, we do have a list of           11:02

5   findings.           11:02

6           Here are some of the highlights: Public           11:02

7   funding helps improve safety. We've done a           11:02

8   lot of studies at FRA and others have done           11:02

9   studies that show that pretty clearly. We're           11:02

10   thinking principally of funding for           11:02

11   engineering improvements. And since 1976?           11:02

12           MR. RIES: '73.           11:03

13           MR. COTHEN: '73, over \$4 billion has           11:03

14   been committed by the Federal Government and           11:03

15   hundreds of millions of additional dollars by           11:03

16   state and local governments to improve           11:03

17   conditions at public highway-rail crossings.           11:03

18	Very little money has been spent at private	11:03
19	crossings.	11:03
20	There is what's known colloquially as	11:03
21	1103 Program, which is for designated	11:03
22	high-speed rail corridors, and I think you	11:03
23	heard some of the -- a flavor of reference to	11:03
24	that in Mr. Scott's remarks. And we certainly	11:03
25	heard it in North Carolina and elsewhere,	11:03



1 where public funding has been available for 11:03  
2 corridors that have the potential to serve 11:03  
3 city pairs through high-speed rail. 11:03  
4 There has been some federal money 11:03  
5 available for closing and making improvements 11:03  
6 in private crossings. And certainly the state 11:04  
7 of New York has been energetically involved in 11:04  
8 a lot of that here on the Empire Corridor, 11:04  
9 perhaps elsewhere. 11:04  
10 The question being should there be 11:04  
11 additional funding; if so, where should it 11:04  
12 come from. Should it come from the railroad; 11:04  
13 should it come from the property holder; 11:04  
14 should it come from the public purse; should 11:04  
15 it come from public purse at the federal, 11:04  
16 state, or local level? How do we make this 11:04  
17 happen? 11:04

18           We have very few private crossings that           11:04  
19    have automated warning systems. Put in an           11:04  
20    automated warning system and you're going to           11:04  
21    cut your risk on the order of 70% at that           11:04  
22    crossing, depending upon the installation.           11:04  
23    Obviously many private crossings couldn't           11:04  
24    support that kind of investment because of the           11:05  
25    low traffic volume, and thousands and           11:05

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1 thousands of farm crossings where that clearly 11:05  
2 wouldn't be warranted. 11:05  
3 But increasingly, as I think commenters 11:05  
4 in this room pointed out, the growth of 11:05  
5 developments on either side of the railroad 11:05  
6 presents situations where investments really 11:05  
7 are needed. And if investments can't be made, 11:05  
8 then public authorities need to adopt those 11:05  
9 crossings. 11:05  
10 Comments on these proposed findings in 11:05  
11 this category. Mr. Browder has got his tent 11:05  
12 up. 11:05  
13 MR. BROWDER: Grady, I know it wasn't 11:05  
14 intentional, but I would just like to add to 11:05  
15 the individuals that you identified as 11:05  
16 provided funding to crossings, both public and 11:05  
17 private, that the railroads have gone way 11:05

18	beyond what is required under public law and	11:06
19	for improvements, and that they have	11:06
20	contributed literally millions of dollars in	11:06
21	the improvements, crossing consolidations, and	11:06
22	areas that they feel have been to their	11:06
23	benefit as good corporate citizens of the area	11:06
24	where the crossings exist. And that that is a	11:06
25	significant factor in them being a stakeholder	11:06

1 in that particular agenda. 11:06

2 MR. COTHEN: Thank you, Bill. And that 11:06

3 goes to the point that I made earlier about 11:06

4 the railroads carrying the burden of this 11:06

5 issue. And it's not just investment in 11:06

6 signage campaigns; for instance, a number of 11:06

7 railroads have gone throughout their system to 11:06

8 put new signage at all their private 11:07

9 crossings. 11:07

10 Investments have also been made through 11:07

11 their local vice presidents, law departments, 11:07

12 and all sorts of folks working with crossing 11:07

13 holders. Bill Burt referred earlier to the 11:07

14 efforts being made by short line railroads on 11:07

15 a retail basis to try to deal with crossing 11:07

16 hazards at individual locations and with 11:07

17 individual landowners and others affected. 11:07

18 And that time is money in any business, and 11:07  
19 that's a substantial investment, and I 11:07  
20 certainly, certainly don't want to understate 11:07  
21 that at all. 11:07  
22 MR. BROWDER: Two big examples of that 11:07  
23 out in Ms. Harris' area include the Alameda 11:07  
24 Corridor and the Reno Trench that have been 11:07  
25 very successful endeavors that have spent an 11:08

1       incredible amount of money to address at-grade                                 11:08

2       crossings.   11:08

3               MR. COTHEN:   Those are notable   11:08

4       public-private partnerships that certainly   11:08

5       have greatly beneficial impacts on quite   11:08

6       densely packed urban communities.   11:08

7               Any -- can I elicit more comments on   11:08

8       these findings?   Are we over or understating   11:08

9       it here?   Do we need to add thoughts?   11:08

10               MR. SCHWARTZ:   Grady.   11:08

11               MR. COTHEN:   Mr. Schwartz, could you   11:08

12       identify yourself, please?   11:08

13               MR. SCHWARTZ:   Stuart Schwartz,   11:08

14       S-T-U-A-R-T, S-C-H-W-A-R-T-Z, Norfolk Southern   11:08

15       Corporation.   11:08

16               It's clear that over the 30 years or so   11:08

17       that the Section 130 program has been in   11:08

18 effect that it's had an enormous positive 11:09  
19 impact on improving -- it's clear that the 11:09  
20 Section 130 program has had an enormous 11:09  
21 positive impact on improving safety at public 11:09  
22 highway-rail grade crossings. You see that 11:09  
23 constant downward trend in the curve that each 11:09  
24 of the railroads can show individually and 11:09  
25 that as a group we can all show. It's in your 11:09



1 statistics I think as well. 11:09

2 But a major concern that our company has, 11:09

3 and I suspect some of the other companies have 11:09

4 as well, is that the pot of money available 11:09

5 for crossing improvements may not be 11:09

6 unlimited, and we all do have a concern that 11:09

7 diluting the impact of the Section 130 program 11:09

8 by increasing or enlarging the number of 11:09

9 crossings that would be eligible for the use 11:09

10 of that money is a concern. 11:09

11 It's not to suggest we want to discourage 11:09

12 the notion that there are appropriate 11:10

13 crossings where public funds should be 11:10

14 expended, because clearly public safety is at 11:10

15 issue, but we do have concern that to increase 11:10

16 the mandate without increasing the funding, 11:10

17 that does have a dilutive impact on the 11:10

18	overall prospects for the usefulness of that	11:10
19	program.	11:10
20	MR. COTHEN: So the scarce resources	11:10
21	currently devoted to investments in	11:10
22	engineering improvements, the Safety Loop Bill	11:10
23	did up the amount a little bit but probably	11:10
24	didn't even compensate for inflation in terms	11:10
25	of long-term trend of federal investment, and	11:10

1 we're still in a situation where we have a 11:10  
2 minority of public crossings with automated 11:10  
3 warning systems among the improvements that 11:10  
4 are available to be made. 11:10  
5 Mr. Stem, do you want to identify 11:10  
6 yourself? You're next up. 11:10  
7 MR. STEM: Yes, good morning. My name is 11:10  
8 James Stem. I'm here today representing the 11:10  
9 United Transportation Union. 11:11  
10 I was going to hold my comments until 11:11  
11 later in the day, but Mr. Cothen specifically 11:11  
12 asked for comment on this concept. 11:11  
13 I'd like to make three points: Number 11:11  
14 one, to the passengers and the neighbors of 11:11  
15 the crossing that Miriam showed a few minutes 11:11  
16 ago in Plant City, Florida, as well as the 11:11  
17 operating crew, there's no difference between 11:11

18	a public grade crossing and a private grade	11:11
19	crossing. Whether you live next to the track,	11:11
20	whether you're a passenger on that track,	11:11
21	whether you're a business that is shipping a	11:11
22	car that's contained in that train that's	11:11
23	operating on that track, you don't know	11:11
24	whether that crossing that's involved in a	11:11
25	collision, whether it's involved in a	11:11

1 discussion about public safety, is a private 11:11  
2 crossing or a public crossing. 11:11  
3 I'm somewhat dismayed at the fact that we 11:11  
4 have conceded that less than 1% of these 11:11  
5 private crossings have any type of warning 11:12  
6 protection other than a passing cross button. 11:12  
7 My second point is that safety not 11:12  
8 improving as rapidly as public crossings. And 11:12  
9 I agree with Mr. Schwartz that Section 130 11:12  
10 funds and their allocation should be involved 11:12  
11 in this equation. 11:12  
12 I'd like to inject the thought that maybe 11:12  
13 we should segregate these crossings according 11:12  
14 to track place. Using a traditional risk 11:12  
15 assessment model, the risk of a private grade 11:12  
16 crossing on Class I or II track where the 11:12  
17 speed is either 10 miles an hour or 25 miles 11:12

18 an hour is much less than what we saw at Plant 11:12  
19 City, Florida, where that was a private 11:12  
20 crossing and the class of track and the track 11:12  
21 speed was considerably higher. 11:12  
22 And to the operating crew and to those 11:12  
23 passengers, every one of those crossings is a 11:12  
24 significant crossing that deserves the same 11:13  
25 consideration as a highway-to-highway 11:13

1 crossing. We would recommend that speeds 11:13

2 above 25 miles an hour that we try to adopt 11:13

3 the same interstate highway concept where you 11:13

4 separate those grades. 11:13

5 And my third and final comment is I don't 11:13

6 think the government has a choice. And I 11:13

7 don't mean the state of New York, I don't mean 11:13

8 the Federal Railroad Administration, I mean 11:13

9 the representatives of the public. Every 11:13

10 agency, state government, and the United 11:13

11 States Congress. We've got to take some 11:13

12 action. 11:13

13 There's no doubt in my mind that 11:13

14 legislation is needed. And I encourage FRA 11:13

15 and the New York DOT to work together to find 11:13

16 a model for both state legislation that will 11:13

17 give them the authority and hopefully the 11:13

18	funding to address this problem, and I	11:14
19	encourage FRA also to develop a model and	11:14
20	solicit support not only from the industry,	11:14
21	but the employees, private interest groups.	11:14
22	I know that Amtrak passengers have	11:14
23	several organizations that consider grade	11:14
24	crossing collisions to be a top safety	11:14
25	priority.	11:14



1 I encourage you to find a way to broaden 11:14  
2 that coalition of people that's interested 11:14  
3 enough to be here today to declare this as a 11:14  
4 number one public safety problem. 11:14  
5 MR. COTHEN: Thank you, James. Anything 11:14  
6 else on that before we move to the next? 11:14  
7 Mr. Scott? 11:14  
8 MR. SCOTT: I would like to comment that 11:14  
9 certainly I support what you just said, and 11:14  
10 I'd like to explain a little bit what we've 11:14  
11 encountered in New York in our efforts to 11:14  
12 address this issue. 11:15  
13 Our legislature did pass laws that gave 11:15  
14 us authority over private crossings on 11:15  
15 intercity rail lines and commuter lines, and 11:15  
16 we've actively been working on trying to 11:15  
17 address the safety at those locations; 11:15

18 however, approximately three weeks ago, as a 11:15  
19 result of a challenge to our authority, a 11:15  
20 federal court issued a decision which preempts 11:15  
21 the state's laws. It's our intent to appeal 11:15  
22 that decision, and that's discussed in the 11:15  
23 testimony I presented. 11:15  
24 This federal court decision concluded 11:15  
25 that the STB has sole authority over 11:15

1 crossings, all crossings; it didn't say 11:15

2 private. So this presents another hurdle that 11:15

3 will have to be sorted out in the courts now. 11:15

4 But that's been our biggest problem is 11:15

5 you can pass the laws and try to exercise that 11:15

6 authority, but you keep running into legal 11:16

7 challenges as you move forward in that area. 11:16

8 Thank you. 11:16

9 MR. COTHEN: Thank you. Important point. 11:16

10 My colleagues at the STB staff will be shocked 11:16

11 to hear they have that responsibility. 11:16

12 MR. SCOTT: I thought that may be the 11:16

13 case. 11:16

14 MR. SCHWARTZ: If I may respond to that, 11:16

15 Mr. Cothen. 11:16

16 This is one of the issues of rail safety 11:16

17 that states have been unsuccessful in 11:16

18 regulating. And from a laymen's standpoint, 11:16

19 what that judge -- what the federal judge told 11:16

20 the state of New York is positive, not 11:16

21 negative. 11:16

22 And the message he sent to all of us is 11:16

23 that this issue is so significant it must be 11:16

24 dealt with nationally, not state by state. 11:16

25 So I would hope that that was an 11:16

1 encouragement for you to then go to Senator 11:16

2 Schumer and Senator Clinton and the 11:17

3 Congressional representatives you have in the 11:17

4 state of New York with that message: We agree 11:17

5 with the federal judge, it takes national 11:17

6 legislation to address this problem. 11:17

7 And that's one of about three issues that 11:17

8 are being resolved that had been preempted or 11:17

9 rule preempted by a federal judge in current 11:17

10 rail safety legislation that's moving in 11:17

11 Congress today. 11:17

12 MR. COTHEN: Okay. With the threat we 11:17

13 may not get to slide two, I'm just going to go 11:17

14 to it, okay? And this is good because what we 11:17

15 end up doing is getting right to the heart of 11:17

16 it. And these are just ways of trying to get 11:17

17 us there. 11:17

18	Here you see some findings regarding	11:17
19	accidents. And we've discussed each of those	11:17
20	issues, Miriam has or you have in the	11:17
21	discussion already.	11:17
22	Any further comment on accident trends,	11:17
23	the whys, wherefores? You think these	11:18
24	findings are okay? Okay.	11:18
25	I think we would have to say in light of	11:18

1 the feedback that we have from New York State 11:18  
2 today, which has made an effort on its 11:18  
3 passenger lines to provide the leadership, 11:18  
4 that clearly we are faced with what is not as 11:18  
5 a practical matter de facto a cohesive policy 11:18  
6 in regulatory structure in this area. There 11:18  
7 are a lot of redundant crossings out there; 11:18  
8 that's evidence of that. Many of them are 11:18  
9 inadequately designed, they were just thrown 11:18  
10 in quickly, sometimes by folks that didn't 11:18  
11 even ask the railroad. And some, 11:18  
12 unfortunately, are poorly maintained for 11:18  
13 various reasons. 11:19  
14 And then I think we talked about the 11:19  
15 populations that are at risk. Any further 11:19  
16 comment about this? State's local authorities 11:19  
17 generally lack jurisdiction. Bill? 11:19

18 MR. BURT: Grady, I would like to comment 11:19  
19 just to the extent of adding a focus on four 11:19  
20 examples that I'll draw from the written 11:19  
21 testimony that were put into the docket, but 11:19  
22 perhaps to add something to the discussion 11:19  
23 here. 11:19  
24 The risk involved in crossings that are 11:19  
25 inadequately designed, and maintenance comes 11:19

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1 out of design in some cases, but redundant 11:19

2 crossings and the lack of a policy or a 11:19

3 structure, that leads to a couple of things. 11:19

4 It leads to defects in the track that are 11:20

5 often not the focus of these discussions. And 11:20

6 I've noticed that a little bit this morning. 11:20

7 So far we've talked about the potential for 11:20

8 collisions at crossings, but I can cite at 11:20

9 least four different types of situations here 11:20

10 that we see out in the field. 11:20

11 We see people trying to take tracked 11:20

12 vehicles across private crossings, 11:20

13 steel-tracked vehicles, such as an excavator 11:20

14 or a dozer. That, of course, presents the 11:20

15 risk of throwing the track out of gauge, and 11:20

16 of course they don't know it, or if they do 11:20

17 they're not telling us. It gets caught in the 11:20

18 next track inspection hopefully, but that may 11:20  
19 not be soon enough. 11:20  
20 We have people skidding logs across 11:20  
21 crossings. The same kind of issues arise. We 11:20  
22 tell crossing holders time and time again not 11:20  
23 to do that, or if you're going to do that make 11:20  
24 sure we've got an employee on the scene 11:20  
25 supervising the operation so to at least 11:20

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1 inspect the track immediately after it to see 11:21  
2 that there was no damage. Because we do have 11:21  
3 some people that insist on their right legally 11:21  
4 to skid logs across the crossing. And under 11:21  
5 Section 52 in New York State they may indeed 11:21  
6 have such a right, depending on how the courts 11:21  
7 would view that. 11:21  
8       And then you have oversized farm 11:21  
9 equipment. The farm equipment that's in use 11:21  
10 today is often wide enough now that it can't 11:21  
11 even go down the highway within the right-hand 11:21  
12 lane and needs to occupy both the right-hand 11:21  
13 lane and the shoulder, and that tells you 11:21  
14 something. That tells you that when that farm 11:21  
15 equipment gets to your 12-foot-wide planks on 11:21  
16 the private crossing, it's not going to go 11:21  
17 across those planks, it's going to drop down 11:21

18 into the gauge. Some portion of the frame of 11:21  
19 that equipment or the hubs on the wheels may 11:21  
20 well hook and once again hook the rail, drag 11:21  
21 it out of gauge. And the farmer will do that 11:21  
22 feeling that he has a God-given right to do 11:21  
23 it, and you're blocking him otherwise from 11:21  
24 getting to his property. 11:21  
25 So the other answer would be to provide I 11:21

1     suppose 25-foot-wide planks, but whose expense                   11:22

2     is that going to be and how do we know where                   11:22

3     it's even required.   11:22

4             Finally, last but not least, I provided                   11:22

5     some photos in the written testimony of side                   11:22

6     hill drainage situations in some of the hilly                   11:22

7     territory that we have here in this part of                   11:22

8     the country, not so much in the Northern Tier                   11:22

9     of New York, but in the Southern Tier.                           11:22

10            Many, many crossings are at the foot of a               11:22

11     side hill road where there is absolutely                       11:22

12     nothing done about the drainage except to let                   11:22

13     the water run down the road and down the sides               11:22

14     of the road until it encounters the railroad,                   11:22

15     and in a cloudburst it floods the railroad                   11:22

16     repeatedly.   11:22

17            And so the crossing becomes filled in, a               11:22

18	focal point of siltation and mud that's	11:22
19	carried to the railroad. And the farm	11:22
20	occupant or the crossing holder is not alone	11:22
21	in this regard. Municipalities and many	11:22
22	others often view the railroad as the dumping	11:22
23	ground for their drainage issues, where if	11:22
24	they were private developers doing this under	11:23
25	the normal building code process in New York	11:23

1 State they would be required to have a storm 11:23  
2 water discharge plan. But in the case of the 11:23  
3 railroad it seems to be a free shot. You get 11:23  
4 to dump your water to the railroad, and then 11:23  
5 it becomes the railroad's problem with 11:23  
6 whatever came along with it in the way of silt 11:23  
7 and mud. 11:23  
8 Those are the four examples. And they -- 11:23  
9 they come in under your populations at risk, 11:23  
10 because the risk is not just collision, it's 11:23  
11 also derailment due to tract defects which may 11:23  
12 be gradual over time or may be sudden in the 11:23  
13 nature of a piece of equipment, for instance, 11:23  
14 hooking the track and putting it -- throwing 11:23  
15 it out of gauge. 11:23  
16 I looked at that photo of the Amtrak 11:23  
17 derailment in Florida, and my eye immediately 11:23

18 went to the fact that there was a dip in that 11:23  
19 crossing. I don't know if anybody else saw 11:23  
20 that. And on supposedly what presumably was 11:23  
21 good 50-mile-an-hour, 60-mile-an-hour track. 11:23  
22 So that again we see a lot of. 11:24  
23 MR. COTHEN: And our FRA track inspectors 11:24  
24 certainly see that as well. Thank you, Bill. 11:24  
25 Okay. We talked about the absence of a 11:24

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1 cohesive policy, the folks who are at risk. 11:24

2 Bill calls attention to the fact that there's 11:24

3 a derailment risk. 11:24

4 Pretty much outside of California and 11:24

5 New York, with the caveats that Mr. Scott has 11:24

6 provided, we've seen that state governments 11:24

7 generally lack jurisdiction over private 11:24

8 crossing issues. We have state of Connecticut 11:24

9 reps here today, and they can correct us if 11:24

10 there's a different situation there. 11:25

11 So what you have -- thank you very much, 11:25

12 Anya. 11:25

13 MS. CARROLL: Sure. 11:25

14 MR. COTHEN: What you have is that you 11:25

15 have no counterpoint to the legitimate 11:25

16 interests of the property owner accessing that 11:25

17 field or proceeding with the development. You 11:25

18 don't have the kind of tension that needs to 11:25  
19 be there in public policy to ensure that both 11:25  
20 the public and private goods are met. And 11:25  
21 that the private interests are worked out as 11:25  
22 well. 11:25  
23 When it comes to engineering design, 11:25  
24 again, there's largely a vacuum, and that's 11:25  
25 already been referred to in testimony and 11:25

1 remarks today. 11:25

2 Any further comments on this slide and 11:25

3 these findings? Mr. Dickinson. 11:25

4 MR. DICKINSON: I might comment, Grady, 11:26

5 as far as engineering designs are concerned, 11:26

6 if there is indeed a consensus that the Agency 11:26

7 needs to establish standards for engineering 11:26

8 designs, you were actually involved, as we 11:26

9 were, in the corridor between Charlotte and 11:26

10 Burlington, Vermont, several years ago. And 11:26

11 most of those crossings up there were private 11:26

12 crossings, and those folks have done some very 11:26

13 innovative things up there to private 11:26

14 crossings, and I think there could be some 11:26

15 lessons learned there. 11:26

16 So you might make a note of that and look 11:26

17 at those in the future as far as establishing 11:26

18 these kinds of standards. 11:26

19 MR. COTHEN: Randy Dickinson, again from 11:26

20 Region 1. And Randy is referring to a case 11:26

21 where interesting train horn issues generated 11:26

22 some creative activity in a community which 11:26

23 extended to what were effectively private 11:26

24 crossings. 11:26

25 Ms. Harris. 11:27

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1 MS. HARRIS: Yes. I just wanted to make 11:27  
2 the point that public safety and necessity, or 11:27  
3 public convenience and necessity, as we call 11:27  
4 it in California, isn't necessarily an 11:27  
5 adequate safeguard, because unless it's tied 11:27  
6 back into land use planning, you find yourself 11:27  
7 in a situation where the subdivision has 11:27  
8 already been approved and now you've got a lot 11:27  
9 of people that are landlocked. 11:27  
10 So it's got to go -- it's actually -- 11:27  
11 from a planning standpoint it's got to start a 11:27  
12 lot earlier if you want to produce a situation 11:27  
13 that will minimize at-grade crossings. 11:27  
14 MR. COTHEN: The Federal Railroad 11:27  
15 Administration started working on this issue 11:27  
16 actively in the 1990s, and I think it's a 11:27  
17 former -- as a former resident of California 11:27

18 we used to say California leads the nation. 11:27

19 It's very indicative of the state of play 11:27

20 of this issue that California is now getting 11:27

21 around to -- and to their credit they're 11:27

22 getting around to some active public 11:28

23 discussion through a commission established by 11:28

24 the state legislature that includes the point 11:28

25 that Carol Harris just made. 11:28

1           And how long it will take, you know, to           11:28

2   move across the breadth of the nation is hard           11:28

3   to say, but we're interested in doing whatever           11:28

4   we can.           11:28

5           I just saw I'm spotted on a meeting of           11:28

6   the Transportation Committee of the National           11:28

7   Conference of State Legislature is coming up,           11:28

8   so Miriam is in charge of making sure that I           11:28

9   adequately address that issue to that group.           11:28

10   We'll take it to every venue that we can.           11:28

11           Okay. Yes, sir.           11:28

12           MR. WHITEMORE: Shane Whitemore,           11:28

13   W-H-I-T-E-M-O-R-E, with CSX Transportation.           11:28

14           To address the zoning and the land use           11:28

15   plans that we've brought up earlier, I've had           11:28

16   the opportunity to participate in no fewer           11:29

17   than ten local zoning boards in the areas           11:29

18 where we operate where housing communities are 11:29  
19 being designed and planned trying to take a 11:29  
20 preemptive stance to go out there and say hey, 11:29  
21 consider us in your plans. 11:29  
22 Because the states and local authorities 11:29  
23 may have conflicting priority with the issue 11:29  
24 because they want to develop their areas, they 11:29  
25 don't take our comments as being necessarily 11:29



1 part of the decision. So any kind of 11:29

2 overarching plan as a land use must consider 11:29

3 this would be appropriate in my opinion. 11:29

4 Also, as we sit there and we look at 11:29

5 design of crossings within the design 11:29

6 engineering and warning systems on private 11:29

7 crossings, the state for public crossings sets 11:29

8 that warning system requirement. They come to 11:29

9 us and they say we want this type of warning 11:29

10 system at this crossing based on use. 11:29

11 The private crossings don't have that, so 11:29

12 the railroad is then put in a position of 11:30

13 trying to make that determination, what is the 11:30

14 appropriate level of warning system at this 11:30

15 crossing. Which puts the railroad in a 11:30

16 position -- the unenviable position of 11:30

17 assuming all the risk should an accident occur 11:30

18 at that location. 11:30

19 So as we look at governments and state 11:30

20 organizations taking responsibility of trying 11:30

21 to determine appropriate warning systems with 11:30

22 stop sign, crossbars, it needs to be applied 11:30

23 uniformly, and the railroad doesn't assume all 11:30

24 that risk because our first inclination would 11:30

25 go to four-quadrant gates and, you know, 11:30

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1 systems out there that would be cost 11:30

2 prohibitive. Of course, the private 11:30

3 individual doesn't have the ability to pay for 11:30

4 those kinds of things. 11:30

5 So thank you. 11:30

6 MR. COTHEN: Thank you, Shane. 11:30

7 Okay. Here is some additional findings: 11:30

8 There are a lot of agreements out there, and 11:30

9 there are a lot of title documents back in the 11:30

10 registrar's office, if the county court hasn't 11:31

11 burned. I believe we had at least one burned 11:31

12 down county courthouse as we went around the 11:31

13 country. 11:31

14 But most crossings lack agreement, formal 11:31

15 arrangements between the railroad and the 11:31

16 holder to allocate responsibilities. You 11:31

17 know, is the drainage adequate, is the surface 11:31

18	properly maintained within and outside the	11:31
19	gauge of the approach, and is that sign	11:31
20	appropriate given the type of vehicle that's	11:31
21	moving over the crossing and so forth.	11:31
22	You know, frankly, the Federal Railroad	11:31
23	Administration is highly unlikely to get into	11:31
24	the business of liability and allocation of	11:31
25	liability, but putting that aside, most of the	11:31

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1 elements -- essential elements of a crossing 11:31

2 agreement are going to be of interest at some 11:31

3 point to the public. And that there is an 11:31

4 agreement and that it's kept current is 11:31

5 something that appears to be important and 11:32

6 useful to making headway here. 11:32

7 We talked about public use being a key 11:32

8 safety concern. It's clearly Department of 11:32

9 Transportation policy -- U.S. Department of 11:32

10 Transportation policy that public use 11:32

11 crossings should get the same engineering 11:32

12 treatments that the Manual for Uniform Traffic 11:32

13 Control Devices applies to public crossings, 11:32

14 but it's easy enough to say it, it's not so 11:32

15 easy to make it happen. 11:32

16 And we've talked about the absence of 11:32

17 involvement by local planning departments at 11:32

18	this juncture, something we'd like to see	11:32
19	changed. Stop me at any point.	11:32
20	Additional findings: Railroads have got	11:32
21	some muscle, but they're facing a lot of	11:32
22	obstacles, so their authority clearly is	11:32
23	limited in terms of looking out for the public	11:33
24	interest as well as their own.	11:33
25	Very often efforts to make improvements	11:33

1 may be hampered. It can include obstacles 11:33

2 presented by budding landowners who won't 11:33

3 provide for an access road so we can close 11:33

4 some crossings. 11:33

5 We concluded in going around the country 11:33

6 and just talking to people that public 11:33

7 education and awareness probably helps in this 11:33

8 regard. It's probably why our numbers are -- 11:33

9 along with the railroad's efforts, it's 11:33

10 probably why our numbers are flat rather than 11:33

11 going up. 11:33

12 But obviously in our three E array of 11:33

13 tools here, engineering, education, and 11:33

14 enforcement, there's a limited amount that can 11:33

15 be done on the enforcement side. The 11:33

16 railroads clearly continue to employ -- the 11:34

17 larger railroads police forces, but they're 11:34

18 spread over a very large area. 11:34

19 Phil, could you introduce yourself for 11:34

20 the record and take a mike there? 11:34

21 MR. POICHUK: Phil Poichuk, Transport 11:34

22 Canada. Poichuk is spelled P-O-I-C-H-U-K. 11:34

23 Grady, you mentioned that in many cases 11:34

24 there is a lack of an agreement, and also I 11:34

25 believe you previously alluded to the fact 11:34



1 that in many cases the actual rights are no 11:34  
2 longer documented for whatever reason in those 11:34  
3 cases where the crossing has rights. 11:34  
4 In the U.S. do railroads routinely 11:34  
5 challenge these cases, challenge the right to 11:34  
6 the crossing where, in fact, they can find no 11:34  
7 agreement or expression of rights? 11:34  
8 MR. COTHEN: Who would like to from the 11:34  
9 railroad side explain some of the efforts 11:35  
10 being made? Mr. Browder can -- meets with 11:35  
11 these people on a regular basis and can give 11:35  
12 us an overview. 11:35  
13 MR. BROWDER: Phil, why don't I give you 11:35  
14 a generic answer, and that answer is that the 11:35  
15 Class Is, the seven Class Is have a very 11:35  
16 assertive campaign to close crossings. And 11:35  
17 they have a program that they have initiated. 11:35

18	In some cases they have established	11:35
19	standards and practices for closing private	11:35
20	crossings. In many cases those standards and	11:35
21	practices don't work without citing any	11:35
22	specific railroad.	11:35
23	I would relate an incident that occurred	11:35
24	to one of the Class Is in South Carolina where	11:35
25	after establishing a program and initiating	11:35

1 action they actually went out to private 11:35

2 crossings that they could identify and didn't 11:36

3 know who the landowner was, didn't know who 11:36

4 the user was, if anyone, and posted signs 11:36

5 showing that in 90 days if they didn't contact 11:36

6 this particular railroad that they were 11:36

7 going -- planning on closing that particular 11:36

8 crossing. And the railroad eventually became 11:36

9 frustrated because they got thrown out of 11:36

10 local court so many times. 11:36

11 We have found that it is much better to 11:36

12 work assertively with the local governments 11:36

13 and with the state DOTs in efforts to 11:36

14 consolidate crossings. And we don't neglect 11:36

15 any opportunity to do that. 11:36

16 And as was mentioned earlier by 11:36

17 another -- in reference to another Class I 11:37

18 railroad, there is a very assertive program 11:37

19 not to permit new crossings except where they 11:37

20 meet criteria and establish things that make 11:37

21 them in the interest of all parties or in the 11:37

22 public good. 11:37

23 So it is a very instrumental program that 11:37

24 goes on, it's very frustrating to railroads, 11:37

25 but they do have a very clearly defined 11:37

1 programs within their own companies to close 11:37

2 crossings and to consolidate crossings as 11:37

3 such. 11:37

4 I would add, and I mentioned this to the 11:37

5 FRA several times recently, is that one area 11:37

6 that appears to be providing more assistance 11:37

7 in consolidating crossings to date has been 11:38

8 the implementation of the train horn rule and 11:38

9 the accompanying quiet zone initiatives. And 11:38

10 those communities that have initiated quiet 11:38

11 zone initiatives appear to be providing 11:38

12 additional local support for some of the 11:38

13 railroad initiatives to close private 11:38

14 crossings. 11:38

15 Because I used to cite -- my figures were 11:38

16 that I would go to 15 public hearings to get 11:38

17 one crossing closed. Because if there was one 11:38

18	person or local voter who opposed the closing	11:38
19	of that crossing, usually that was the kiss of	11:39
20	death with whatever the supervisory	11:39
21	organization was that was considering action	11:39
22	on that proposal. And now with the quiet zone	11:39
23	initiative there appears to be in some cases	11:39
24	local pressure from the general public, the	11:39
25	community, and local government to work	11:39

1 constructively toward realistic programs to 11:39  
2 eliminate especially those crossings that have 11:39  
3 a higher probability of a collision occurring. 11:39  
4 I hope I answered your question. 11:39  
5 MR. COTHEN: Okay. Thank you for that. 11:39  
6 MR. SCOTT: Grady, can I -- I would 11:39  
7 just -- 11:39  
8 MR. COTHEN: Mr. Scott. 11:39  
9 MR. SCOTT: Just like to say that we've 11:40  
10 actually found in New York since we had the 11:40  
11 legislation on the books that grants us 11:40  
12 authority over, as I said, intercity lines and 11:40  
13 commuter corridors, we've worked with the Long 11:40  
14 Island Railroad, who has actively pursued 11:40  
15 efforts to close private crossings, and over 11:40  
16 the past two to three years they've 11:40  
17 successfully closed over 50% of the crossings 11:40

18 that did exist on their lines. 11:40

19 So it can work, you have the laws on the 11:40

20 books that help the railroads out and clarify 11:40

21 the definition. Thank you. 11:40

22 MR. COTHEN: Excellent. Thank you. We 11:40

23 had a finding related to the necessity for 11:40

24 some cooperative work among the parties 11:40

25 involved. 11:40

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1           You know, we can fight all we want to and           11:40

2   run up the legal bills and tie up the courts           11:40

3   and so forth, but I think most would agree           11:41

4   that what we're looking for here is           11:41

5   cooperative efforts. And these are the           11:41

6   parties that have been identified to date.           11:41

7   Anybody else you would like to add?           11:41

8           MR. WHITEMORE: Grady, I would suggest           11:41

9   that adjacent landowners. You have the           11:41

10   private crossing holder --           11:41

11           MR. COTHEN: Yes.           11:41

12           MR. WHITEMORE: -- but in a lot of cases           11:41

13   when you look for alternate access, adjacent           11:41

14   landowners are also part of the process.           11:41

15           MR. COTHEN: Thank you. Anybody else?           11:41

16           Okay. So here we get to the dry stuff,           11:41

17   right? FRA has some relevant authority. Our           11:41

18 relevant authority is over railroads and 11:41

19 railroad safety. 11:41

20 You know, Farmer Smith doesn't know us 11:41

21 from nobody, and that's I think the problem. 11:41

22 And the local resident who with two or three 11:41

23 other residents uses the crossing, they have 11:42

24 no idea who we are. 11:42

25 They've heard of the Federal Aviation 11:42

1 Administration, they saw a sign at the 11:42  
2 airport, but they don't know who we are. And 11:42  
3 we don't know in many cases, of course, their 11:42  
4 needs and concerns as well. 11:42  
5 Other Department of Transportation modes 11:42  
6 are interested in this issue. The Federal 11:42  
7 Highway Administration has ensured that it 11:42  
8 stays in play with regard to the Manual for 11:42  
9 Uniform Traffic Control Devices. And clearly 11:42  
10 National Highway Traffic Safety 11:42  
11 Administration, Federal Motor Carrier Safety 11:42  
12 Administration are interested in this issue 11:42  
13 but may not have specific relevant authority 11:42  
14 to bring to bear here. 11:42  
15 Another reason, by the way, that 11:42  
16 probably, you know, we're keeping these 11:42  
17 numbers flat is our automobiles are safer 11:42

18 today. And if you do have a collision down 11:43  
19 below 25 miles an hour, with a side air bag, 11:43  
20 you may mitigate or even prevent in some cases 11:43  
21 an injury. 11:43  
22 We're working across a broad front of 11:43  
23 issues as a society to reduce the risk here, 11:43  
24 but, you know, if that motor vehicle gets hung 11:43  
25 up or if it's a higher-speed collision, 11:43

1 there's only so much reasonably that can be 11:43

2 done in that regard. So those are just kind 11:43

3 of straightforward actual findings. 11:43

4 But Mr. Browder had a comment? 11:43

5 MR. BROWDER: Well, I can't help but when 11:43

6 you ask about other modal agencies within the 11:43

7 DOT go back to one question that AAR has 11:43

8 raised for a number of years concerning the 11:43

9 issue of highway-rail grade crossings. 11:43

10 You mentioned the interest of the Federal 11:44

11 Highway Authority with the MUTCD, and I can 11:44

12 attest as the token representative from the 11:44

13 railroads to the National Committee that FRA 11:44

14 has done a excellent job in supporting the 11:44

15 initiatives of the National Committee, 11:44

16 including the proposal to FHWA to add yield or 11:44

17 stop signs where -- as appropriate for public 11:44

18	crossings.	11:44
19	The other part of the initiative though	11:44
20	that I see and I've seen in my activities	11:44
21	involves the Federal Transit Administration,	11:44
22	the National Highway Traffic Safety	11:44
23	Administration, and the initiative that has	11:44
24	either converted former highway-rail grade	11:45
25	crossings from Class Is and short lines to	11:45

1 transit or new ones that have appeared in 11:45

2 transit modal organizations. 11:45

3 And similar to the perspectives that 11:45

4 James so eloquently presented about the 11:45

5 general public not knowing the difference 11:45

6 between a public and a private crossing, I 11:45

7 would allow that a vehicle operator out here 11:45

8 doesn't know the difference between a Class I 11:45

9 railroad crossing and a rail transit crossing 11:45

10 if it's in the traditional mode of having 11:45

11 highway bells, gates, and lights. 11:45

12 I point out with some trepidation that 11:45

13 the U.S. DOT inventory maintained by FRA may 11:45

14 or may not include those public and private 11:46

15 crossings that exist under the Rail Transit 11:46

16 Administration. And many of them do. And 11:46

17 they do because of the tireless effort of 11:46

18	FRA's staff, of the railroads and their staff,	11:46
19	of railroad suppliers, of former railroad	11:46
20	signal and communications people that are now	11:46
21	employed in the rail transit industry to	11:46
22	maintain and keep the inventory under FRA.	11:46
23	And the suggestion that AAR has been	11:46
24	putting forward for several years consistent	11:46
25	with Anya Carroll's Volpe Center and the	11:46



1 Transportation Research Board looking at 11:47  
2 studies to improve safety at highway-rail 11:47  
3 grade crossing is -- really is an intermodal 11:47  
4 issue that you're absolutely right, you need 11:47  
5 to involve those other stakeholders. 11:47  
6 I've bugged you several times about FHWA 11:47  
7 participation. I believe they have come to 11:47  
8 one session in New Orleans. And that again 11:47  
9 for a even more complete discussion I'm sure 11:47  
10 you'll be contacting the other modal agencies, 11:47  
11 the American Public Transportation 11:47  
12 Administration and others, to ensure that we 11:47  
13 get a perspective in that area. 11:47  
14 I couldn't help but add that, Grady. 11:47  
15 MR. COTHEN: I assure you, Secretary 11:48  
16 Peters, who's the Federal Highway 11:48  
17 Administrator, will ensure the DOT agencies 11:48

18 work together on this issue. 11:48

19 MR. BROWDER: But she doesn't have much 11:48

20 time left. 11:48

21 MR. COTHEN: Doesn't have much time left. 11:48

22 Okay. Looking around the room. 11:48

23 We are now in the -- what is this, 11:48

24 point-counterpoint, is that it -- portion of 11:48

25 the discussion. And we just broke out 11:48

1 topically, you know, elements of Plan A and 11:48

2 Plan B. Plan A we just captioned policy and 11:48

3 Plan B regulation. We're not trying to bias 11:48

4 you against Plan B, but we had to have a 11:48

5 title. 11:48

6 Here are some matched initiatives under 11:48

7 each of these plans or options. And as you 11:48

8 can see, in the first instance it's the same 11:49

9 idea, whatever else we do we want to 11:49

10 discourage creating new crossings. That 11:49

11 doesn't mean there won't be some; there will 11:49

12 be a public necessity for some to be created 11:49

13 or a private necessity for some to be created. 11:49

14 But we want to discourage that. 11:49

15 That could be matched up with some 11:49

16 additional initiatives that are shown there, 11:49

17 including some state-level oversight of land 11:49

18 use changes. That's difficult, and that 11:49  
19 assumes relationships between state-level 11:49  
20 bodies and regional and local planning boards 11:49  
21 that may or may not exist. However, at least 11:49  
22 in the state of California through their 11:49  
23 environmental process it's something that 11:49  
24 they're giving a try at. 11:50  
25 With that would of course go the notion 11:50

1 that states would have a flow of information 11:50  
2 to the railroad so that the railroads know how 11:50  
3 they need to interact perspectively with those 11:50  
4 who are planning changes in land use abutting 11:50  
5 or affecting the railroad. 11:50  
6 And a counterpoint to that or a different 11:50  
7 way of doing it would be some sort of 11:50  
8 requirement that for each new crossing there 11:50  
9 be a statement of essential need that would 11:50  
10 have whatever attributes were called out 11:50  
11 there, but certainly including the use that 11:50  
12 was to be put to and some explanation as to 11:50  
13 why there's not alternative access on a 11:50  
14 reasonable basis. 11:50  
15 And it would be the ability there to 11:50  
16 simply say no. And then there would be the 11:51  
17 need for some kind of way to resolve disputes 11:51

18 that might arise. 11:51

19 We have some further discussion, I 11:51

20 believe, of dispute resolution downstream from 11:51

21 this, so let's not get hung up on this on this 11:51

22 slide, but we'll get back to it I'm pretty 11:51

23 sure. And if I don't, Miriam will make sure 11:51

24 that I do. 11:51

25 Comments on these notions here? We'll 11:51

1 start with Stu and then go to Phil. 11:51

2 MR. SCHWARTZ: Grady, I guess my comment 11:51

3 would be directed not towards the specifics of 11:51

4 any bullet points within those two categories, 11:51

5 just to the general notion of the choices the 11:51

6 agency has to make about whether to proceed 11:51

7 with policy or regulation. 11:52

8 And speaking for myself and perhaps for 11:52

9 my company, we don't think the policy is a 11:52

10 good policy choice. Given the lack of 11:52

11 interest among the various states in 11:52

12 regulating private grade crossings -- or 11:52

13 addressing -- addressing private grade 11:52

14 crossings, let's leave the word regulation out 11:52

15 of it. Given the lack of interest in most of 11:52

16 the states, apparently 48 of them, have in 11:52

17 addressing questions of private grade 11:52

18 crossings, it strikes me that having a policy 11:52  
19 out there and on the shelf that somebody could 11:52  
20 refer to is not going to make those states 11:52  
21 anymore interested in addressing those issues 11:52  
22 than they are now. 11:52  
23 The FRA has -- or DOT has over the years 11:52  
24 expressed itself most vociferously that the 11:52  
25 best crossing is a closed crossing and that we 11:53



1 should be closing crossings. 11:53

2 It's still no less torturous a process 11:53

3 than it was when the DOT first expressed that 11:53

4 theme. When the question comes down to is 11:53

5 this landowner going to lose his crossing, the 11:53

6 judge or the local regulatory body, most 11:53

7 likely is going to be a judge, is going to 11:53

8 make that decision not based on whether the 11:53

9 federal government has a policy that 11:53

10 discourages the existence of private grade 11:53

11 crossings, but he's going to make that 11:53

12 decision based on the local impact it's going 11:53

13 to have on that particular landowner and 11:53

14 perhaps his neighbors. 11:53

15 I know regulation is kind of a dirty 11:53

16 word, and there is -- there are all kinds of 11:53

17 degrees of regulation, and once we get to 11:53

18 regulation we can talk about details. But 11:53

19 what I'm suggesting is that as a general 11:53

20 proposition a policy option does not advance 11:54

21 the ball down the field. 11:54

22 MR. COTHEN: Okay. Phil? 11:54

23 MR. POICHUK: Grady, I would like to 11:54

24 address your point of forbidding crossings for 11:54

25 creation and the use of the crossing if it's 11:54

1 lacking. 11:54

2 My understanding of the American 11:54

3 government system is that it is not unlike the 11:54

4 Canadian one relative to the jurisdictional 11:54

5 problems that exist between municipal levels 11:54

6 of government versus state or provincial 11:54

7 versus the federal. And what I am curious 11:54

8 about is what legal instrument would it take 11:54

9 to allow you to actually forbid a lower level 11:55

10 of government to exercise its own rights that 11:55

11 were traditionally given to it? 11:55

12 MR. COTHEN: Where is our lawyer? 11:55

13 The issue that -- and actually, you know, 11:55

14 it was first Administrator Gil Carmichael who 11:55

15 said we ought to take a run at these issues 11:55

16 back in the 1990s. He's from Mississippi, and 11:55

17 nobody's going to accuse him of being a 11:55

18	flaming liberal.	11:55
19	But his point was that the nation needs	11:55
20	the service of its railroads in aid of	11:55
21	interstate commerce, including a growing role	11:55
22	for passenger rail as well as freight rail.	11:55
23	And Mr. Carmichael's point was that we	11:55
24	all as a nation have an interest in that and	11:56
25	that dealing with these issues related to	11:56

1 safety at highway-rail crossings was necessary 11:56  
2 to meet the nation's transportation mobility 11:56  
3 needs, and that the Commerce Clause of the 11:56  
4 U.S. Constitution, which permits the Congress 11:56  
5 to regulate interstate commerce, should be -- 11:56  
6 give impetus to this kind of effort, and the 11:56  
7 Supremacy Clause of the Constitution does 11:56  
8 permit preemption of conflicting state and 11:56  
9 local policies. And you can do that in a 11:56  
10 variety of ways but allowing greater or lesser 11:56  
11 discretion for action at the state or local 11:56  
12 level and still having a national policy. 11:56  
13 The interesting question that's presented 11:56  
14 here that's the other side of the issue of 11:56  
15 Farmer Smith doesn't know the Federal Railroad 11:57  
16 Administration is, you know, to what extent we 11:57  
17 could view those folks as somewhat -- somehow 11:57

18 within the ambit of our current statutory 11:57  
19 jurisdiction, that is the jurisdiction that 11:57  
20 the Congress gives us. 11:57  
21 And that's an interesting question. When 11:57  
22 we first addressed this back in the 1990s we 11:57  
23 said, well, what about the notion of we tell 11:57  
24 the railroad you get an agreement with that 11:57  
25 crossing holder or you put the barricades up. 11:57

1 And that's sort of the issue writ large. 11:57

2 So what we're looking for here is a model 11:57

3 that says, okay, here is a national policy 11:57

4 that takes into consideration the interest of 11:57

5 people across the country in safety and the 11:57

6 mobility of our society, and it then asks of 11:57

7 each of us appropriate responses so that, you 11:58

8 know, the kid who's driving for the first time 11:58

9 by herself is going to cross to see the 11:58

10 neighboring kid on the other side of the 11:58

11 private crossing is just as safe traversing 11:58

12 that private crossing as she would be a public 11:58

13 crossing in the community. 11:58

14 So I don't -- our team doesn't think and 11:58

15 our counsel doesn't think that we're without 11:58

16 authority in the matter currently. We are 11:58

17 asking the question whether or not we need a 11:58

18	new charter from the Congress that would more	11:58
19	carefully define what the expectations are of	11:58
20	all of us, including role for state agencies	11:58
21	that are trying to get their job done in terms	11:58
22	of serving members of the communities here in	11:58
23	New York and elsewhere.	11:58
24	We think this is something that can be	11:58
25	done, but we're asking the question of whether	11:58



1 or not and how to proceed. 11:59

2 And Mr. Burt I guess is -- 11:59

3 MR. BURT: Grady, just as Stuart thought 11:59

4 he ought to dive in at the head end of this 11:59

5 presentation, I guess my feeling is the same 11:59

6 as I look down through the slides I think I 11:59

7 better try to contribute this 2 cents' worth 11:59

8 now. 11:59

9 Our written testimony stated in several 11:59

10 places that if the private sector railroads 11:59

11 were only empowered to do the job, they would 11:59

12 do the job. And that is a balanced job. 11:59

13 That's a job that takes into account the 11:59

14 deeded rights of those who have deeded rights, 11:59

15 yet at the same time takes into account the 11:59

16 pressing safety issues involved and the public 11:59

17 safety of them as well as the safety of the 11:59

18	employees of the railroads and the safety of	11:59
19	the private crossing holders themselves.	11:59
20	And yet I haven't heard -- and I guess	11:59
21	you could infer in that position a certain	11:59
22	caution in representing the diverse members of	12:00
23	our organization, large and small, with	12:00
24	various types of views on a wide range of	12:00
25	things. But I haven't heard any one of the	12:00

1 members come to any one of our executive 12:00  
2 committee and say we will not consider one 12:00  
3 thing or another as we approach this question. 12:00  
4 It's far too early in process for people to do 12:00  
5 that I think. 12:00  
6 So with that in mind, my perception of it 12:00  
7 is, and perception of many that I talked to in 12:00  
8 our organization, is that we really have three 12:00  
9 options on the table. We can take the most 12:00  
10 conservative option if that's a possible label 12:00  
11 and simply try to make the private property 12:00  
12 system work better. 12:00  
13 The falling down of that seems to be that 12:00  
14 the local courts in many cases won't enforce 12:00  
15 it probably, and we get caught in this 12:00  
16 situation of local politics, and the private 12:00  
17 crossing holder may be the brother-in-law of 12:01

18 the judge, that sort of thing. 12:01

19 So that -- I won't say it's a nonstarter, 12:01

20 it's awful attractive to a lot of people who 12:01

21 believe in trying to make more traditional 12:01

22 methods work, but it does seem to have that 12:01

23 major defect. 12:01

24 And that New Orleans -- the railroad down 12:01

25 in Louisiana stated passionately and in a way 12:01

1 that many of our members would agree with. 12:01

2 The second option which should not be 12:01

3 dismissed entirely is the state level. I'd 12:01

4 like to say a kind word for the processes that 12:01

5 we go through as railroads with New York State 12:01

6 to close public crossings. There is a process 12:01

7 to take it in front of an administrative law 12:01

8 judge. We work cooperatively with DOT. The 12:01

9 interests of the communities, the neighboring 12:01

10 landowners, everyone's interests are taken 12:01

11 into account, and there seems to be 12:01

12 remarkably, although I'm sure maybe I have a 12:01

13 skewed sample, but in our experience a 12:01

14 surprisingly good, effective process there 12:02

15 with less controversy than one would think, 12:02

16 partly because everyone involved understands 12:02

17 there is a bottom line here and that is that 12:02

18	the state's policy is to further reduce the	12:02
19	number of public crossings and to discourage	12:02
20	the creation of new public crossings if at all	12:02
21	possible.	12:02
22	So, you know, it's not hard to	12:02
23	extrapolate from that the possible scenario	12:02
24	that perhaps if similar authority were	12:02
25	extended to private crossings we might be able	12:02

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1 to make that work. But once again I think we 12:02

2 do have a problem evident there with local 12:02

3 courts, lawsuits, litigation, dragging that 12:02

4 into a less effective process than it might 12:02

5 otherwise be. 12:02

6 When we consider the third option of 12:02

7 federal regulation or federal -- greater 12:02

8 federal involvement more broadly, I would like 12:02

9 to at least suggest the possibility, and I -- 12:02

10 trepidation is a good word here, I say this 12:02

11 with trepidation since there are greater 12:03

12 experts in the room, most notably yourself, 12:03

13 about how to do this kind of a process. 12:03

14 But my understanding is that in the past 12:03

15 the FRA has found it possible to occupy the 12:03

16 field and draw up certain very broad standards 12:03

17 without necessarily micro-prescribing the ways 12:03

18 in which those regulations are implemented. 12:03

19 And I know that's a very broad statement, 12:03

20 but the bridge issues in the past come to mind 12:03

21 and the way that bridge inspections have been 12:03

22 handled over a number of years. 12:03

23 And I think that's part of what some of 12:03

24 our members have suggested in our 12:03

25 conversations, that perhaps there's a way here 12:03



1 for the FRA to make statements to policy and 12:03

2 occupy the field in such a way that preempts 12:03

3 the defective processes we see at a local 12:03

4 level but at the same time doesn't result in 12:03

5 an unnecessary amount of regulation. 12:04

6 So with those thoughts, perhaps I put 12:04

7 those out now rather than try to weigh in at a 12:04

8 later stage when we're down to the details. 12:04

9 MR. COTHEN: Okay, thank you. I'm 12:04

10 reassured to hear that we're making headway 12:04

11 with public crossings in New York State. 12:04

12 Mr. Scott, you want to add to that? 12:04

13 MR. SCOTT: I just wanted to add in 12:04

14 support of what Bill was saying that in 12:04

15 New York the laws that we have on the books 12:04

16 for private crossings has a section in it that 12:04

17 prevents the creation of any new private 12:04

18	crossing until we have an administrative law	12:04
19	hearing, which gives the parties an	12:04
20	opportunity to present their case.	12:04
21	And we found that to be quite effective,	12:04
22	at least controlling the numbers of any new	12:04
23	ones. Dealing with the existing ones has	12:04
24	turned out to be an entirely different story.	12:04
25	And I would also like to note under your	12:05

1 policy comments that I would tend to think 12:05

2 from a state perspective that it's difficult 12:05

3 for the states to track land use changes, and 12:05

4 certainly we think that the railroads are in a 12:05

5 better position to do that because they have 12:05

6 people out along the railroad all the time. 12:05

7 We've usually found that the railroads 12:05

8 advise us when there's a -- change is taking 12:05

9 place, and then we can act on it. But I'm not 12:05

10 quite sure how the states would have that 12:05

11 information. 12:05

12 MR. COTHEN: Yeah, I think with what 12:05

13 we're struggling with, you know, the 12:05

14 roadmaster goes out there and sees the 12:05

15 utilities going in, yeah, the railroad's aware 12:05

16 and probably before you are, but it's too late 12:05

17 and -- very often. 12:05

18           So I guess what we were asking is whether                                 12:05

19   or not from a planning point of view we could                                     12:05

20   get -- whether it would be possible to have                                     12:05

21   communication mechanisms within state,   12:06

22   regional, and local government to get these   12:06

23   things identified early enough so that you can                                     12:06

24   deal with them in the least costly manner.   12:06

25   That's basically the question.   12:06

1 Yes, Randy. 12:06

2 MR. DICKINSON: I have just one 12:06

3 suggestion, Grady. That there may be a third 12:06

4 way between policies and regulations to skin 12:06

5 the cat, so to speak. 12:06

6 But before I get started on that I should 12:06

7 apologize, earlier I didn't identified myself 12:06

8 for purposes of the recorder there. 12:06

9 My name is Randy Dickinson, R-A-N-D-Y, 12:06

10 last name is D-I-C-K-I-N-S-O-N. And I'm the 12:06

11 Regional Program Manager for Grade Crossing 12:06

12 Safety for the Federal Railroad 12:06

13 Administration. 12:06

14 And I'm sitting listening to this and I'm 12:06

15 thinking that we're debating back and forth 12:06

16 between policy and regulation or mandate and 12:06

17 persuasion, and there may actually be a third 12:07

18 way, and that might be to approach it from an 12:07  
19 incentive standpoint. And I'm just wondering 12:07  
20 if there has been -- I'm sure that we 12:07  
21 wouldn't -- that our agency wouldn't get 12:07  
22 necessarily involved in it, but for some of 12:07  
23 the other organizations, the AAR and various 12:07  
24 other organizations, there may be some merit 12:07  
25 in approaching the tax incentive approach. 12:07

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1 And in other words, providing perhaps tax 12:07  
2 incentives or property tax relief to the 12:07  
3 private crossing holders for purposes of 12:07  
4 relieving the financial burden for any costs 12:07  
5 that they may have to bear, and it may 12:07  
6 actually provide incentives for them to close 12:07  
7 crossings outright. 12:07  
8 So that's just a suggestion you might 12:07  
9 want to put on the record. 12:07  
10 MR. COTHEN: Okay, thank you. I do want 12:07  
11 to emphasize that this is for purposes of 12:08  
12 eliciting comment, and, you know, you might 12:08  
13 just -- regulation may not be a regulation, it 12:08  
14 might be a federal statute that specifies 12:08  
15 goods and responsibilities and that leaves 12:08  
16 administration to the states or private 12:08  
17 parties. It doesn't necessarily have to 12:08

18 involve -- doesn't necessarily have to involve 12:08

19 FRA, although clearly we want to help if we 12:08

20 can. 12:08

21 Okay. Here is some more of the same sort 12:08

22 of stuff. We could offer a model state law 12:08

23 related to crossing agreements. We could -- 12:09

24 on the other hand, there could be something 12:09

25 more clearly mandatory from the federal level. 12:09







1 Law Judge or in court or wherever if a dispute 12:10  
2 cannot be worked out so that there's a balance 12:10  
3 of public policy presented. 12:10  
4 Whether there is an ability to eventually 12:11  
5 remove a dispute to federal court could also 12:11  
6 be addressed in any legislation. 12:11  
7 Comments about these particular bullets 12:11  
8 other than the thoughts we've already had? 12:11  
9 I should note that when we talk about 12:11  
10 state safety participation, and New York DOT 12:11  
11 among others is among the 30 states 12:11  
12 participating, not only does the state need to 12:11  
13 have, you know, a blessing from Uncle Sam, but 12:11  
14 it also needs to have authority under its own 12:11  
15 state law to engage in this activity. So it's 12:11  
16 a decision by the legislature and Governor to 12:11  
17 get into the fray. 12:11

18	We've had, by the way, you know,	12:11
19	additional states participate in this activity	12:11
20	where the staffs of the respective departments	12:11
21	of transportation or public utilities	12:12
22	commission have indicated an interest from	12:12
23	their standpoint in playing a more significant	12:12
24	role or continue a significant role that	12:12
25	they're currently playing.	12:12

1           And I take it that while they are careful           12:12

2   to say they're not authorized to speak on           12:12

3   behalf of the full legislature or perhaps even           12:12

4   the Governor's office in that regard, that           12:12

5   that indicates an awareness within the state           12:12

6   of the importance of the issue.           12:12

7           A lot of discussion during this road show           12:12

8   has gone into the issue of appropriate           12:12

9   treatments for different types of crossings.           12:12

10   And Miriam has addressed that in her remarks.           12:12

11           We've suggested here, it's possible,           12:13

12   though not without difficulty and not without           12:13

13   exceptions, to sort of group some of the           12:13

14   typical categories.           12:13

15           And it matters a lot what you think a           12:13

16   public use crossing is. And it's difficult to           12:13

17   say what a public use crossing is.           12:13

18	A multi-residential community, for	12:13
19	instance, even if it's a gated community, is	12:13
20	going to have the plumber and the yard service	12:13
21	and so forth in and out. And not only that,	12:13
22	the personal guests of those who live there.	12:13
23	So one can argue there is some public	12:13
24	use. If it's a shopping center, commercial	12:13
25	use, certainly there's going to be the public	12:13

1 freely accessing that area. Industrial 12:14

2 crossing may have mostly trucks full of gravel 12:14

3 or it may have a more active or diverse use. 12:14

4 And we're sensitive to the fact that some 12:14

5 of the categories might move between the super 12:14

6 categories that have been put on there, but 12:14

7 one of the jobs that we would have together if 12:14

8 we move forward on this is to appropriately 12:14

9 classify crossings, and any hard, tough 12:14

10 examples you have that you can throw in the 12:14

11 public docket would I think help us think 12:14

12 about that with a higher degree of resolution. 12:14

13 I got a question from a reporter out here 12:14

14 during the break about the Rome, New York, 12:14

15 collision which was, quote, in a private 12:14

16 crossing. However, I believe it's correct to 12:15

17 say, Ike, that after investigation we all 12:15

18 concluded it was a public road. 12:15

19 MR. SCOTT: Yes, it's a public road, but 12:15

20 it has not gone through process to make it a 12:15

21 public crossing. And in this state our laws 12:15

22 are quite clear that if a public road existed 12:15

23 as of 1897 it was grandfathered in as a public 12:15

24 crossing. After that time the only way it can 12:15

25 become a public crossing is through the 12:15

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1 regulatory process. 12:15

2 Therefore, we do wind up occasionally we 12:15

3 see situations where a road has been made 12:15

4 public but they have not gone through the 12:15

5 correct process to make the crossing public. 12:15

6 So that's a difficult one. 12:15

7 MR. COTHEN: And that's the level of 12:15

8 nuance that I will say it totally escaped us 12:15

9 to this point, but indicative of the potential 12:15

10 complexity of, you know, the issue. 12:16

11 But obviously if we're having trouble 12:16

12 deciding what's a public crossing versus a 12:16

13 private crossing, the first thing that 12:16

14 happened after the -- you're going to have to 12:16

15 help me out now -- oh, the accident at 12:16

16 Portage, Illinois -- Indiana, Portage, 12:16

17 Indiana, was a great deal of weeping and 12:16

18 wailing and gnashing of teeth as to whether 12:16  
19 that was a public or a private crossing. 12:16  
20 It had steel coil trucks just one after 12:16  
21 another after another. You could just sit 12:16  
22 there watching the trucks go through with -- 12:16  
23 almost without having a time when there wasn't 12:16  
24 a truck in view. And it had flashing lights 12:16  
25 and gates and I don't know what, four or five 12:16

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1 tracks, Amtrak service, NICTD service, which 12:16  
2 is the commuter authority there, and freight 12:16  
3 rail service on Conrail. And was this a 12:16  
4 public or a private crossing. 12:17  
5 Well, in the end of the day it didn't 12:17  
6 matter, you know, it -- I mean, but the 12:17  
7 circumstances of the crossing certainly 12:17  
8 mattered to the three people who were killed 12:17  
9 in that collision. It only took I think four 12:17  
10 or five years after that to get a grade 12:17  
11 separation in, as I recall. Dave Blackmore 12:17  
12 from our regional office in Chicago put days 12:17  
13 and days into that to try to get that one 12:17  
14 crossing addressed. And it was. 12:17  
15 But the point is sometimes it's difficult 12:17  
16 to tell, and these things matter, I guess, 12:17  
17 are -- those are the take-aways from it that 12:17

18 we have to this point. 12:17

19 Bill or Ike, did you have something more? 12:17

20 MR. SCOTT: Can I add, when we looked at 12:17

21 this situation we also considered the public 12:17

22 safety concerns and therefore focused on the 12:17

23 lines that have passenger trains operating 12:17

24 over them. 12:18

25 So in addition to the use -- highway use 12:18

1 over a crossing, we have to look at the rail 12:18

2 usage as well because of the passengers on the 12:18

3 train. I feel you should put it into the 12:18

4 public use category when there's passenger 12:18

5 trains operating in the corridor. 12:18

6 MR. BURT: I just wanted to mention, 12:18

7 Grady, with the assistance of the New York 12:18

8 DOT, Western New York and Pennsylvania 12:18

9 Railroad just closed an example of what we 12:18

10 were talking about here, a private crossing 12:18

11 that had slipped in public use. And when we 12:18

12 went to investigate the responsibilities for 12:18

13 that so-called public crossing, the local 12:18

14 jurisdictions disavowed any responsibility for 12:18

15 it. 12:18

16 But apparently one of the predecessor 12:18

17 railroads deep in the past had allowed 12:18

18 crossbucks to be put up there, and it was an 12:18  
19 absolutely horrendous engineering layout, a T 12:18  
20 intersection with a busy public highway right 12:19  
21 next to the railroad on a steep grade. So we 12:19  
22 were happy to get rid of it. 12:19  
23 And I think when short lines get into 12:19  
24 some of these acquisitions that -- of lines 12:19  
25 that have been neglected for a few years, they 12:19

1 usually come with a collection of these 12:19

2 situations. So it's not unknown. 12:19

3 MR. COTHEN: Okay. Phil? 12:19

4 MR. POICHUK: Phil Poichuk, Transport 12:19

5 Canada again. 12:19

6 In the United States do you -- do you 12:19

7 have any legal instrument of convenience that 12:19

8 can allow an empowered individual to -- 12:19

9 federal probably, to declare a particular 12:19

10 crossing de facto public for purposes of 12:19

11 crossing usage? 12:19

12 MR. COTHEN: I think it's fair to say 12:19

13 that there are -- unless the Surface 12:19

14 Transportation Board has been working 12:19

15 diligently over the last few days, that the 12:20

16 answer to that is no, we don't have at the 12:20

17 federal level such an ability. 12:20

18	Obviously states manage differently from	12:20
19	state to state the issue of what sometimes we	12:20
20	call adoption of private crossings, in effect	12:20
21	making them public roadways. And I'm not an	12:20
22	authority on that, but Mr. Scott is for	12:20
23	New York.	12:20
24	MR. RIES: Grady, I would add for	12:20
25	purposes of discussion, we've used the	12:20



1 definition of public crossing as what Federal 12:20  
2 Highway Administration has deemed for use of 12:20  
3 the Section -- eligibility for Section 130 12:20  
4 funding. So that's the definition of the term 12:20  
5 public. 12:20  
6 MR. COTHEN: Okay. One of our folks 12:20  
7 stuck under my nose lunch options. I'm not 12:21  
8 sure what she was -- what Anya was suggesting. 12:21  
9 Are you suggesting that maybe we need to 12:21  
10 have lunch? Is that -- 12:21  
11 MS. CARROLL: Yeah, that would be a good 12:21  
12 idea. 12:21  
13 MR. COTHEN: Okay. I guess we have to do 12:21  
14 that then. I've got a revolt in the ranks. 12:21  
15 Why don't we try to do it between now and 12:21  
16 1:30. Anya, you want to explain what options 12:21  
17 folks have? 12:21

18 MS. CARROLL: Yeah. There's some menus 12:21  
19 and also a list of options of restaurants in 12:21  
20 this area that are on the registration desk 12:21  
21 for you to pick up and use. There's also a 12:21  
22 menu for the restaurant that's in the hotel 12:21  
23 itself. And there are three or four different 12:21  
24 options listed, including pizzeria and subs 12:21  
25 and salads and deli options. 12:22

1           So please make use of the information the           12:22

2   hotel has put together for us, and we'll see           12:22

3   you back here at 1:30. Thank you. Enjoy.           12:22

4           MR. COTHEN: We're in recess.           12:22

5   (A luncheon recess was taken from 12:22 PM           12:22

6   until 1:33 PM.)           12:22

7           MR. COTHEN: Out of deference to           13:33

8   everybody that is here, and quite a few are,           13:33

9   why don't we go ahead and kind of settle back           13:33

10   into our places, and hopefully others will           13:33

11   come in here shortly.           13:33

12           So we'll resume. And where we left off,           13:33

13   the slide in front of you was up, we were           13:33

14   talking about, among other things, categories           13:33

15   of private crossings.           13:33

16           One of the, you know, probably most           13:33

17   difficult issues because it involves execution           13:33

18 of engineering improvements is on the left -- 13:34  
19 or right-hand side of the page there, and I 13:34  
20 suppose it needn't be displayed quite that 13:34  
21 way. We've had a good deal of comment to this 13:34  
22 point in the proceeding that it probably would 13:34  
23 be helpful at some point to convene, either 13:34  
24 reconvene or reconstitute or have something 13:34  
25 like a technical working group, which was used 13:34

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1 by the Department of Transportation to freshen 13:34

2 up the guidance for treatments at public 13:34

3 highway-rail crossings a couple of years back. 13:34

4 That group did an excellent job, very 13:34

5 professional job, and whether or not you have 13:34

6 a more directive role federally it would seem 13:34

7 to me useful at some point to have that kind 13:34

8 of work done and available for reference, even 13:35

9 if only as a voluntary standard. 13:35

10 But in contrast to a voluntary standard, 13:35

11 it's possible to imagine some pretty directive 13:35

12 federal guidance similar to the MUTCD or as a 13:35

13 part of the MUTCD that would, for instance, 13:35

14 provide for minimum treatments at crossings. 13:35

15 There's been a fair amount of suggestion 13:35

16 at your typical farm crossing a locked gate 13:35

17 works pretty well. The gate's often there 13:35

18 because the livestock need to be controlled, 13:35  
19 and the lock on the gate is an indication that 13:35  
20 the guy who comes through in a four-wheel 13:35  
21 drive vehicle wanting to go hunting on the 13:35  
22 other side of the railroad really shouldn't be 13:35  
23 traversing that crossing. Maybe a practical 13:35  
24 impediment. 13:36  
25 On the other hand, the farmer's got the 13:36

1 key to the padlock and in season when he or 13:36  
2 she needs to can traverse the crossing and 13:36  
3 take care of business. 13:36  
4 For all other crossings it would seem 13:36  
5 that some kind of standard for minimum signage 13:36  
6 be required. We have a de facto -- I say de 13:36  
7 facto because of the actions of states and 13:36  
8 railroads -- de facto standard sign of private 13:36  
9 crossings now, which probably if you look at 13:36  
10 the preponderance of crossings consists of a 13:36  
11 small crossbuck and small stop sign. I don't 13:36  
12 know how many of them are reflectorized on 13:36  
13 both sides of the post. And the -- in other 13:36  
14 cases simply a crossbuck. 13:36  
15 Bill's referenced the fact that we want 13:36  
16 to be going to a regime in which every 13:36  
17 crossbuck has something else on it that's 13:36

18 appropriate for that location, either a stop 13:37  
19 or yield sign in particular so that the 13:37  
20 motorist is not required to guess at what the 13:37  
21 intended action is at that crossing. 13:37  
22 The subject of exactly how you would 13:37  
23 execute that seems to me would be something 13:37  
24 that a technical working group would need to 13:37  
25 work out. 13:37



1 Right now the predominant regime seems to 13:37  
2 be on the public side, somebody can correct me 13:37  
3 who knows more, a number of people in this 13:37  
4 room, a room full of people know more than I 13:37  
5 do, but seems to be trending toward a default 13:37  
6 for a yield sign with standard crossbuck and 13:37  
7 then the stop sign where an engineering study 13:37  
8 indicates that's appropriate. And there is 13:37  
9 some guidance from Federal Highway and Federal 13:37  
10 Rail encouraging use of the stop sign in 13:37  
11 appropriate cases. 13:38  
12 On the private crossing side the default 13:38  
13 again, as I indicated, seems to be a stop 13:38  
14 sign. Clearly there are going to be some 13:38  
15 industrial crossings where it's good to have 13:38  
16 an evaluation of what kind of motor vehicles 13:38  
17 are using that crossing on a regular basis, 13:38

18 what the sight distances are, and the timing, 13:38

19 the relevant timing in terms of traversing the 13:38

20 crossing from a dead stop. And the -- and 13:38

21 whether or not if there's not a stop sign 13:38

22 there's going to be an opportunity to have a 13:38

23 good preview of the rail approaches from the 13:38

24 roadway approach. 13:38

25 In some of these cases if some of the 13:38

1 research done in Canada is any indication, you 13:38

2 know, you're going to find locations where the 13:38

3 crossing can't be made safe within the 13:39

4 available geometry. 13:39

5 And what do we do now? And again, if you 13:39

6 go back to a previous slide, one of the 13:39

7 options is a mandate for a crossing which 13:39

8 cannot be made safe to be closed. 13:39

9 Discussion about minimum signage and 13:39

10 whether we're chasing something that's not 13:39

11 really important or whether it's something we 13:39

12 really should be emphasizing because of the 13:39

13 desire to be consistent in terms of how the 13:39

14 motorist responds, pedestrian for that matter, 13:39

15 responds to the signage provided. 13:39

16 Obviously we're not writing regulations 13:39

17 under this new statute yet, but the question 13:39

18 is what, if any, advances can we make here 13:39

19 from a safety standpoint by taking a more 13:39

20 consistent and rigorous approach. 13:39

21 Must have been good pizza. 13:40

22 MR. SALTZ: Brian Saltz from Long Island 13:40

23 Railroad. Sorry, I came in about a minute 13:40

24 late, so you may have already mentioned this. 13:40

25 We had a question about this issue that's 13:40

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1 coming up now in New York State, what's the 13:40  
2 minimum signage. Where did they come up with 13:40  
3 you have the stop sign right above the private 13:40  
4 crossing sign right above -- I assume that's a 13:40  
5 sign with a phone number underneath that. 13:40  
6 MR. COTHEN: Well, we've seen a variety 13:40  
7 of signage. In some cases you see a crossbuck 13:40  
8 above the stop sign, then the other way. I 13:40  
9 think that's an emergency notification plate 13:40  
10 down below that particular one, which is 13:40  
11 recommended by U.S. DOT. And I think as a 13:41  
12 matter of fact there's going to be a Senate 13:41  
13 bill introduced today that may require that. 13:41  
14 That is not a MUTCD recommended plate. I 13:41  
15 believe we ended up sticking with blue 13:41  
16 background and the white lettering? No? 13:41  
17 Bill. 13:41

18 MR. BROWDER: It's being changed. The 13:41  
19 national committee has recommended that that 13:41  
20 be a standard in the MUTCD, but it's also -- 13:41  
21 blue and white is what Fred and I came up with 13:41  
22 in 2000 and stuck with MUTCD as a compromise, 13:41  
23 and of course there were concerns about size 13:41  
24 also. 13:41  
25 But essentially there's a 15-year 13:41

1 implementation period once that MUTC is 13:41

2 enacted in 2009 to go to this more traditional 13:42

3 sign that would be the standard. 13:42

4 So if all else fails in the U.S. 13:42

5 Congress, and heaven forbid that they 13:42

6 shouldn't pass legislation to require that, it 13:42

7 will be in the MUTCD and we'll be doing it 13:42

8 anyway. Excuse me, Grady. 13:42

9 MR. COTHEN: That's all right. You know, 13:42

10 there has been a press for standardization. A 13:42

11 lot of people did a lot of good things in the 13:42

12 initial years of emergency notification to get 13:42

13 something out there that was helpful to 13:42

14 motorists, and then we all said hmm, maybe we 13:42

15 ought to try to do it the same way everywhere 13:42

16 so we're not looking for the sign over here on 13:42

17 the signal house one place and the -- you 13:42

18 know, the crossbuck post in other place and so 13:43  
19 forth and so on. 13:43  
20 And undoubtedly it would be a progressive 13:43  
21 process of trying to move toward greater 13:43  
22 standardization. Bill again. 13:43  
23 MR. BROWDER: That was another education 13:43  
24 process by you and AAR and others of the 13:43  
25 highway authority in terms of those signs. 13:43



1 And another good example of the issues that 13:43  
2 occur because of the lack of communication and 13:43  
3 understanding with media and the general 13:43  
4 public concerning issues that address us as 13:43  
5 stakeholders was again the highway people felt 13:43  
6 that that sign should face the motoring public 13:43  
7 and be large enough for them to see coming 13:43  
8 down the highway at whatever the speed limit 13:43  
9 sign -- limit was. 13:43  
10 And we said no, we want it as it is in 13:43  
11 the manual right now, facing the crossing 13:43  
12 where the vehicle would be or where the 13:44  
13 situation would be. And it doesn't need to be 13:44  
14 so large, it just needs to be read by the 13:44  
15 people at the crossing rather than somebody a 13:44  
16 half a mile away with the motoring public. 13:44  
17 Couldn't help but add that, Grady. 13:44

18 MR. COTHEN: Right. No, that's fine. 13:44

19 I don't know, Mr. Scott, does New York 13:44

20 DOT have guidance for the private crossing 13:44

21 signs? 13:44

22 MR. SCOTT: We're developing standards. 13:44

23 They're in draft form. But we have to 13:44

24 coordinate the approval of those with the MPA. 13:44

25 So I originally had them included with my 13:44

1 testimony, but we took it out. So shortly I 13:44

2 should be able to provide you that 13:44

3 information. I can follow up on that 13:44

4 testimony once we get concurrence from -- 13:44

5 through the MPA. 13:44

6 MR. COTHEN: So another shoe is going to 13:45

7 drop in New York. 13:45

8 MR. SALTZ: Since we're a subsidiary of 13:45

9 the MPA, that's why I brought this issue up, 13:45

10 because we had a question when we did get 13:45

11 those draft standards. So I assume at some 13:45

12 point we'll work it out. 13:45

13 MR. COTHEN: I'm sure you will. 13:45

14 Again, the real question before the House 13:45

15 is not which sign, but should there be 13:45

16 standard signs and what kind of considerations 13:45

17 would go into it. 13:45



1 use crossings subject to full MUTCD 13:46

2 requirements and a requirement for -- I 13:46

3 suppose the term in the trade is warrants for 13:46

4 automated warning devices in situations where 13:46

5 it seemed to make sense. 13:46

6 Is that -- in the public arena we have a 13:46

7 certain amount of money and we accept for 13:46

8 whatever reason the premise that, you know, 13:46

9 we'll get to it when we're able given the 13:46

10 funding stream. 13:46

11 In the private crossing arena if we came 13:46

12 out of this discussion with a desire to go 13:46

13 farther and no funding stream, I mean, 13:46

14 obviously if we had -- if Section 130 was 13:47

15 augmented, for instance, that might define for 13:47

16 us to some extent how fast we could go in 13:47

17 terms of addressing problem industrial and 13:47

18 commercial crossings, depending upon the 13:47  
19 contemplated shares that others would kick in. 13:47  
20 If we came out of this with no such 13:47  
21 augmentation, then we would be asking, you 13:47  
22 know, what are we going to require of whoever 13:47  
23 is identified as responsible. 13:47  
24 FRA has posited in the past, and not just 13:47  
25 because we work with the railroads every day, 13:47

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1 that in many situations the benefit derived 13:47

2 from the crossing is one that is directly 13:47

3 proportional to the gain that the private 13:48

4 holder gets out of that arrangement. And 13:48

5 that, in fact, a control over the use in most 13:48

6 cases is with the holder and not with the 13:48

7 railroad. So that holder should be expected 13:48

8 to take care of the safety issue at the 13:48

9 crossing. 13:48

10 And of course in an industrial/commercial 13:48

11 kind of setting that would not be an unusual 13:48

12 position to take from a public policy 13:48

13 standpoint. 13:48

14 If we went down that course, then we 13:48

15 would be looking at risk-based evaluations of 13:48

16 the crossings, much in the same way that 13:48

17 New York DOT or another state transportation 13:48

18	agency would look at a plan for public	13:48
19	crossings and would be asking for	13:48
20	participation through agreement to make those	13:49
21	improvements over what period of time seemed	13:49
22	to be appropriate up to the limit where we	13:49
23	couldn't pay for those improvements with	13:49
24	societal benefits. And that's the avoidance	13:49
25	of loss of life, personal injury, property	13:49



1 damage to the motorist and anyone surrounding 13:49

2 the area, property damage to the railroad, 13:49

3 potential in worst cases for injury to 13:49

4 passengers, crew members, road crew members. 13:49

5 And those more serious events. All of which 13:49

6 should be taken into consideration. 13:49

7 As Mr. Scott I think has referenced, 13:49

8 increasingly in doing transportation planning 13:49

9 for passenger rail corridors we try to take 13:50

10 all of that into consideration. 13:50

11 The consequence is -- and obviously there 13:50

12 would be some requirement depending on the 13:50

13 circumstances for some public -- either public 13:50

14 in the case of passenger rail probably, or 13:50

15 railroad contribution, freight railroad 13:50

16 contribution, depending upon the 13:50

17 circumstances. 13:50

18	Transactionally, for instance, Surface	13:50
19	Transportation Board from time to time in the	13:50
20	environmental area has required freight	13:50
21	railroads involved in transactions to ante up	13:50
22	some money for improvements at crossings where	13:50
23	traffic will increase in those kinds of	13:50
24	situations where things are changing on the	13:50
25	railroad rather than in terms of the private	13:50

1 use of the crossings. That seems would be 13:50

2 relevant as well. 13:51

3 But if we got to the point then where we 13:51

4 would make it a risk-based evaluation, we 13:51

5 would determine that by warrant this crossing 13:51

6 needed flashing lights and gates, and if the 13:51

7 funds were not available to do it, then the 13:51

8 consequence would be that crossing needed to 13:51

9 be closed. That would be logical outcome of 13:51

10 that kind of reasoning. 13:51

11 Comments on that, please, on that sort of 13:51

12 radical suggestion. Yes, Phil. 13:51

13 MR. POICHUK: Grady, Phil Poichuk again. 13:51

14 How easy would it be to close a crossing 13:51

15 if, in fact, it was demonstrated by the -- if 13:51

16 it was a crossing that had rights attached to 13:52

17 it, private though it was, how easy could it 13:52

18 be to close it if you could demonstrate that 13:52

19 it was the only reasonable access? 13:52

20 MR. COTHEN: Well, that's the -- that's 13:52

21 the question, you know, the public policy 13:52

22 question. You know, the public policy 13:52

23 question is how seriously do we take safety. 13:52

24 And I think one question is reasonable 13:52

25 access to what. You know, we ended up on 13:52

1 Northeast Corridor between New York and Boston 13:52

2 with a half dozen crossings left after the -- 13:52

3 a major effort to close crossings. And 13:52

4 because it was a major passenger route, mostly 13:52

5 federal money and Amtrak's passenger money 13:53

6 went into some fairly elaborate treatments on 13:53

7 each and every one of those crossings. 13:53

8       You know, but very truly, there were a 13:53

9 number of locations along there where one was 13:53

10 hard-pressed from a public policy standpoint 13:53

11 to explain why that -- why that crossing 13:53

12 needed to remain so light was the use of the 13:53

13 property. 13:53

14       And of course to the extent that a 13:53

15 crossing is of really high value and we can't 13:53

16 make it safe otherwise, grade separation may 13:53

17 be an option. 13:53



1 decisions do end up getting made politically. 13:54

2 But happily, you know, in the case of 13:54

3 these crossings on the Northeast Corridor 13:54

4 subject to the improvement project, at least 13:54

5 there was a major effort to make the crossings 13:54

6 as safe as possible. In that case by tying in 13:54

7 four-quadrant gates to the cab signal system 13:54

8 so that if we had somebody on the crossing at 13:54

9 least we had a mitigation. 13:54

10 And which is a plausible mitigation for 13:54

11 heavily-used passenger line; it's not 13:54

12 necessarily a plausible mitigation for 13:54

13 heavily-used freight line because the 13:54

14 considerations are simply different. 13:54

15 Mr. Scott? 13:54

16 MR. SCOTT: I'd just like to note that 13:54

17 based on the experience gained in New York 13:54

18 since we've had laws on the books, I think it 13:54  
19 would be very difficult to close a crossing 13:55  
20 simply because there's no funds to pay for 13:55  
21 warning devices that are deemed necessary. I 13:55  
22 think the courts would not allow that to -- 13:55  
23 that action. You would have to have a 13:55  
24 stronger case than simply lack of funds. 13:55  
25 It's -- particularly if you're looking to the 13:55



1 private property owner to provide those funds. 13:55

2 That's just for the limited amount of 13:55

3 experience that we've gained. 13:55

4 MR. COTHEN: Right. And I understand 13:55

5 what you're saying. I don't know, maybe we 13:55

6 should have a lawyers' caucus here, but thus 13:55

7 far to the extent that I've been, you know, 13:55

8 able to follow the case law on a federal 13:55

9 level, we're not yet at the point where our 13:55

10 Supreme Court has taken the notion of a taking 13:55

11 to the extent that a reasonable regulation is 13:56

12 foreclosed. 13:56

13 This is one of those cases that would -- 13:56

14 might get up there, you know, but we're not -- 13:56

15 we're not -- this construct is not suggesting 13:56

16 that someone would be left landlocked except 13:56

17 in the case where public safety required it. 13:56



1 be a serious issue. Notwithstanding that the 13:57

2 private property owner ended up with something 13:57

3 they couldn't use in that situation. 13:57

4 But whether or not it would present a 13:57

5 Constitutional issue at that point, you know, 13:57

6 I -- make the last four appointments to the 13:57

7 court I suppose is the cynical way of looking 13:57

8 at it. 13:57

9 But then I would never say that, being a 13:57

10 member of the district of Columbia bar. 13:57

11 All I can tell you is I've been told in 13:57

12 my career over and over again the things that 13:57

13 couldn't be done because the courts were going 13:57

14 to strike it down, and we're doing pretty well 13:57

15 so far. 13:57

16 MR. SCHWARTZ: Presumably if the 13:58

17 crossings that are deemed to be appropriate 13:58

18	for that kind of treatment, presumably those	13:58
19	crossings would be ones that have a higher	13:58
20	level of commercial traffic or industrial	13:58
21	traffic with a going concern, holding the	13:58
22	crossing in a position to contribute a	13:58
23	substantial portion of the cost of doing that.	13:58
24	You're not talking about putting up	13:58
25	four-quad gates so a farmer can get over his	13:58

1 crossing to plow his field. You're talking 13:58

2 about a steel mill or a coal transload 13:58

3 facility or something like that where you got 13:58

4 a commercial business and it's going to be a 13:58

5 part of their cost of doing business. 13:58

6 And clearly to the extent that you're 13:58

7 putting active warning devices at these 13:58

8 crossings if that's what was mandated, the 13:58

9 railroad is under -- is going to incur an 13:58

10 expense as well, a perpetual expense for the 13:58

11 continued maintenance of that crossing. 13:59

12 So we clearly would be undertaking some 13:59

13 kind of burden as well, unless that cost is 13:59

14 accounted in some kind of agreement. 13:59

15 But again, if you're talking about doing 13:59

16 this where you've got a going concern there, 13:59

17 presumably there should be some kind of pot of 13:59

18 money, perhaps with federal or state 13:59

19 assistance, but there would be a pot of money 13:59

20 to pay for the installation. 13:59

21 MR. COTHEN: And I appreciate that. And 13:59

22 I think that the happy correspondence of 13:59

23 events, you know, would obtain in most cases. 13:59

24 It's also true that litigation costs a 13:59

25 lot of money on the other hand. 13:59

1 Carol Harris. 13:59

2 MS. HARRIS: Yes, this is Carol Harris, 13:59

3 Union Pacific. 13:59

4 And I just wanted to caution that in 13:59

5 terms of the definition and the way that 14:00

6 crossings get classified as public use, there 14:00

7 are -- you're dealing with so many different 14:00

8 kinds of fact patterns and situations, that in 14:00

9 itself could require quite an extensive 14:00

10 examination. 14:00

11 What they've got where we've done it in 14:00

12 California, they have publicly-used private 14:00

13 crossings, it's one category. But they're not 14:00

14 defined as such until they've been 14:00

15 judicially -- the commission has gone through 14:00

16 and evaluated the situation and made a factual 14:00

17 determination. I think in any kind of 14:00

18	regulatory scenario you would have to have a	14:00
19	process for that.	14:00
20	And then in terms of the attention that	14:00
21	they get for the in-depth examination of the	14:00
22	safety evaluations, there would have to be	14:00
23	some kind of a prioritization, because	14:01
24	otherwise we would be left suddenly with	14:01
25	thousands, conceivably, of these crossings	14:01



1 that would have to be addressed in -- there's 14:01

2 got to be some orderly fashion for working 14:01

3 through the inventory, because there would be 14:01

4 quite a few, whatever the thresholds are, that 14:01

5 are set for public. 14:01

6 MR. COTHEN: Well, without question. 14:01

7 Talking about progressive improvements in 14:01

8 safety here, nothing -- nothing happens in 14:01

9 this arena all at once without creating 14:01

10 enormous disruption and disappointment. 14:01

11 So Carol's point is that simply the 14:01

12 designation of public is an issue. 14:01

13 Seasonal or agricultural crossings, I 14:02

14 think we talked about the notion of something 14:02

15 just to deter casual use by those who are on 14:02

16 the property for other reasons other than the 14:02

17 principal reason the property is maintained. 14:02

18	The farmer clearly knows the railroad's	14:02
19	there, so we're not so worried about the	14:02
20	farmer.	14:02
21	There have been arrangements contemplated	14:02
22	on passenger lines, higher-speed passenger	14:02
23	lines over time that would require some kind	14:02
24	of interlock that might require some kind of	14:02
25	acknowledgement and release from a dispatching	14:02

1 center or through a train control system. And 14:02

2 that's perhaps a technology that's available 14:02

3 in a case that warrants it. 14:03

4 Mr. Burt? 14:03

5 MR. BURT: Just to pick up on that 14:03

6 thought, we have landowners who make money by 14:03

7 leasing out the property during certain 14:03

8 seasons to hunting clubs, to snowmobile 14:03

9 organizations, to ATV clubs. They most often 14:03

10 do so without contacting the railroad. We may 14:03

11 find out about it when we see signage, 14:03

12 sometimes snowmobile clubs have gotten into 14:03

13 the habit of putting up various types of 14:03

14 signage in and around railroad crossings on 14:03

15 railroad property, again, without notifying 14:03

16 anybody. So that's the first time we find out 14:03

17 about it. 14:03

18	So there's a lot more in background than	14:03
19	a simple agricultural versus nonagricultural,	14:03
20	because most of these folks are attempting to	14:03
21	keep up with the property tax burden and the	14:04
22	costs of running a farm by doing side	14:04
23	businesses that complicate this question	14:04
24	frequently enormously. So just a thought.	14:04
25	MR. COTHEN: You left out the paint ball	14:04

1 people. 14:04

2 Okay. Good point. And in a presenting 14:04

3 landscape that's changing, I'm sure, all the 14:04

4 time. 14:04

5 So, if we stirred up this pot, the last 14:04

6 pot we stirred, you know, was train horns, and 14:04

7 there's still people mending their wounds over 14:04

8 train horns. Probably will be for several 14:04

9 years to come. 14:04

10 And, you know, our staff is basically 14:04

11 saying about this issue -- I know they are 14:04

12 because I have a listening device in the 14:05

13 office. You know, that's not true, but I know 14:05

14 what they're thinking, same thing I would 14:05

15 think, and that is for crying out loud, let us 14:05

16 get on top of the workload we've got. 14:05

17 This would be obviously something for 14:05

18	everyone concerned, railroads, state agencies	14:05
19	involved, and private holders that would	14:05
20	become, very rapidly, if we went to a	14:05
21	regulatory model, something that would really	14:05
22	kick up the dust. Really kick up the dust.	14:05
23	And if we were to do something like this	14:05
24	we would want to learn as much as we could	14:05
25	from the efforts of states and others that	14:05

1 have had some success in this arena. And 14:05

2 that's one of the things we've been trying to 14:05

3 do with this road show. 14:05

4 The -- I'll tell you that I kind of get 14:06

5 three versions of it. I believe it's three 14:06

6 versions I get. I get a version from some 14:06

7 railroads who have been working successfully 14:06

8 in this area leave us alone, we're doing 14:06

9 pretty good; we're getting some -- we're 14:06

10 getting a lot of them closed. 14:06

11 And basically, you know, I think the 14:06

12 message is we're not down to the point yet 14:06

13 where we need anybody's help; there's still 14:06

14 plenty of low-hanging fruit, and we just want 14:06

15 to work on it. 14:06

16 Now, those are -- that's one or two or 14:06

17 more big railroads with good-sized law 14:06

18	departments and lots of legal talent on	14:06
19	retainer in the field.	14:06
20	And so that's one thing to be taken into	14:06
21	consideration, because you don't want to	14:06
22	double the bill there, and if good things are	14:06
23	getting done, then you don't want to	14:06
24	interfere.	14:06
25	Now, you've heard from Bill today, and we	14:06



1 heard elsewhere on the road, the difficulty 14:06

2 that the smaller railroads sometimes have. 14:07

3 And usually after really having gone out of 14:07

4 the way to explain things to people, to be 14:07

5 flexible about what they request, to take into 14:07

6 consideration the needs of the community in 14:07

7 which -- which they serve, and do they want to 14:07

8 be good corporate citizens and still facing 14:07

9 greater or lesser obstacles, depending upon 14:07

10 where they're operating. But usually almost 14:07

11 always significant obstacles. 14:07

12 And then we have the public policy model 14:07

13 which involves some sweetening in the sense of 14:07

14 state or federal money involved to begin to 14:07

15 work with these situations and get it done. 14:07

16 And if there is an administrative process 14:08

17 within the state that can be utilized, it's 14:08

18 difficult, but there's some success. And then 14:08  
19 we hear but the courts may not weigh things in 14:08  
20 the balance quite the way that we do at the 14:08  
21 state government level. 14:08  
22 94,000, maybe only 90 left, depending 14:08  
23 upon what the inventory is, you know, how bad 14:08  
24 the inventory really is, maybe 87, but that's 14:08  
25 a lot. We got thousands and thousands still 14:08

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1 out there. And anecdotally, but saying that 14:08

2 in a sense of lots of anecdotes, still 14:08

3 situations that could be a lot better, despite 14:08

4 the good efforts of many in this room over a 14:08

5 significant period of time now. 14:08

6 So we would assume that if there was some 14:09

7 public policy impetus from the federal level 14:09

8 to get this done somewhat more rapidly, like 14:09

9 in our lifetime, then we probably would need 14:09

10 some kind of dispute resolution mechanisms. 14:09

11 What the folks who study this a lot say, 14:09

12 and the American Arbitration Association, the 14:09

13 American Bar Association, there's a whole 14:09

14 community out there of people who are involved 14:09

15 in alternative dispute resolution, what they 14:09

16 say is that we really ought to -- whenever we 14:09

17 have the potential for folks going head to 14:09

18	head in the courts in particular, we really	14:09
19	ought to have mechanisms to deal with those	14:09
20	issues short of tying up our court system.	14:09
21	Or if it's not going to go through the	14:10
22	courts, per se, at least on the facts and	14:10
23	administrative law kind of system, because	14:10
24	even an administrative law system can be	14:10
25	extraordinarily costly and involve a lot of	14:10

1 time and money. And incidentally, is probably 14:10  
2 as hard as courts to corral in terms of 14:10  
3 keeping the eye on the ball in terms of 14:10  
4 administrative -- that is, the public policy 14:10  
5 objectives that are trying to be achieved. 14:10  
6       There are various forms, and there are 14:10  
7 people in the room, again, that know much more 14:10  
8 about this than I do, of alternative dispute 14:10  
9 resolution that are available, various models 14:10  
10 of mediation and arbitration that proceed in 14:10  
11 different ways. One can lead to another; the 14:10  
12 whole thing can stop right there. There can 14:10  
13 be recourse or no recourse depending upon the 14:10  
14 determination at arbitration, although 14:11  
15 normally -- normally arbitration is final, 14:11  
16 absent fraud or -- and here you go -- public 14:11  
17 policy being thrown out the door. And so we 14:11

18 would want to describe processes that worked 14:11

19 well. 14:11

20 One possibility, and I don't even know if 14:11

21 you could do this or not from a due process 14:11

22 standpoint, would be to create a significant 14:11

23 incentive, at least, for parties to use, 14:11

24 shared cost ADR at the front end, before we 14:11

25 got into more difficult types of conflict. 14:11

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1 I mean, it's increasingly the case, I 14:12  
2 believe, that the federal judges are in effect 14:12  
3 intelligently forcing parties to evaluation of 14:12  
4 the use of these kinds of alternatives in 14:12  
5 order to manage caseloads. It would seem that 14:12  
6 there should be a way for the Congress to do 14:12  
7 it. 14:12  
8 But probably at some point there would be 14:12  
9 need for a safety valve, we hypothesize. If 14:12  
10 we had to do this from a federal level we 14:12  
11 would need a lot of help. And we hypothesize 14:12  
12 that states that already have existing 14:12  
13 mechanisms that are interested in working in 14:12  
14 this area and were responsive to whatever the 14:12  
15 federal policy was that came down could be 14:12  
16 recognized to handle the issues in order to 14:13  
17 bring more resources to bear and in order to 14:13

18 ensure to the maximum extent possible needs of 14:13

19 all the citizens in the state were taken into 14:13

20 consideration. 14:13

21 So that's that side. Now, what do you 14:13

22 think? Can something like this be structured 14:13

23 that would actually work? Or would we all be 14:13

24 in the ditch within the first six months? 14:13

25 What do you think? Yes, sir? 14:13

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1 MR. LUND: Greg Lund, L-U-N-D, with the 14:13  
2 Brotherhood of Locomotive Engineers. 14:13  
3 I'm just saying this as somebody that 14:13  
4 will probably be on a locomotive tomorrow 14:13  
5 going over one of these crossings. 14:14  
6 The one thing that I see kind of missing 14:14  
7 in all of this is essentially education. And 14:14  
8 it's educating the general public as far as 14:14  
9 what their responsibilities are when they come 14:14  
10 to either a private crossing when they see 14:14  
11 signage. It's something that can be 14:14  
12 accomplished on a state level through like 14:14  
13 driver education courses. I mean, most states 14:14  
14 require like a five-hour course before you 14:14  
15 license somebody, or in the retraining courses 14:14  
16 where essentially you're targeting your 14:14  
17 higher-risk drivers. A lot of your trucking 14:14

18 companies require safety training. 14:14

19 Does that safety training include what 14:14

20 that -- what the driver's responsibilities are 14:14

21 when they approach a cross? Maybe that's 14:14

22 something that could be included in either the 14:14

23 policy or the regulation, that there be some 14:14

24 sort of educational requirement if, say, a 14:14

25 company uses a private crossing on a regular 14:15

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1 basis. 14:15

2 MR. COTHEN: Very good point. And 14:15

3 somewhere back up here we did reference 14:15

4 education; we haven't emphasized it. But to 14:15

5 the extent that we have problem crossings that 14:15

6 are industrial or commercial, particularly 14:15

7 industrial crossings, targeted education is a 14:15

8 very important aspect. 14:15

9 As you know so well, Operation Lifesaver, 14:15

10 Inc., Federal Railroad Administration do a lot 14:15

11 of this work, including with private and 14:15

12 interstate truckers. 14:15

13 But that clearly is something that can be 14:15

14 included in the mix of mitigations and make a 14:15

15 big difference if it's a sustained effort. 14:16

16 Thank you. Other comments? Mr. Schwartz 14:16

17 is back up, and then Mr. Burt. 14:16

18 MR. SCHWARTZ: I think from our 14:16  
19 standpoint, this is not to downplay the 14:16  
20 importance of this aspect of the whole 14:16  
21 process, but up until now we've been talking 14:16  
22 about the substance of what the agency or the 14:16  
23 government should or shouldn't do in 14:16  
24 addressing the safety of private grade 14:16  
25 crossings. 14:16

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18 process that does same thing. 14:17

19 Some of these disputes may get very ugly 14:17

20 because they will involve private property 14:17

21 rights, and some guy who has had a crossing in 14:17

22 the family for 180 years and all of a sudden 14:17

23 he has to justify the existence of it, I mean, 14:18

24 at some points it may not be very pretty. But 14:18

25 if you can get the policy right or the 14:18

1 regulation right, this part I think won't be 14:18

2 as much of a struggle. It may be for the 14:18

3 first couple years, it may be very clogged up 14:18

4 and slow; presumably this whole process is 14:18

5 going to be rolled out over a period of time 14:18

6 anyway so that you're not going to have a rush 14:18

7 down to the ALJ 85,000 petitions on the first 14:18

8 day that the regulations go into effect, but I 14:18

9 think that this part shouldn't worry us as 14:18

10 much as the other stuff. 14:18

11 MR. COTHEN: Okay. Bill? 14:18

12 MR. BURT: I've been listening throughout 14:18

13 the whole day wondering how this will play 14:18

14 when it's first taken out into the field, and 14:19

15 I guess my comments here will be aimed at both 14:19

16 the legalities of it and the education aspect 14:19

17 of it. 14:19

18	This audience seems to be knowledgeable	14:19
19	and cares about railroad safety. What we	14:19
20	encounter much of the time, and I think it's	14:19
21	true of large railroads as well as small, is	14:19
22	really a rampant attitude of entitlement on	14:19
23	the part of the crossing holders and very	14:19
24	little sense of responsibility; the	14:19
25	responsibility for rail safety in particular.	14:19

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1           The cutting edge of that that we've seen           14:19

2   in some cases is that when we even tried to           14:19

3   determine the legal status of the crossing,           14:19

4   the lawyers that were retained by their           14:19

5   clients, crossing holders, basically said do           14:19

6   your own legal research and stop bothering my           14:19

7   clients. And in a sense perhaps they were           14:19

8   within, strictly speaking, their legal rights           14:19

9   in that regard.           14:20

10           I think there is an argument to be made           14:20

11   for a broader understanding of the           14:20

12   responsibilities of everyone concerned. You           14:20

13   would think at a minimum that a crossing           14:20

14   holder would have some shared responsibility           14:20

15   to produce the documents if they have a deed           14:20

16   in their possession to produce it and make it           14:20

17   available to the railroad if the railroad           14:20

18 doesn't have it. Is that too much to ask, for 14:20  
19 instance? 14:20  
20 So but my point here will be that we need 14:20  
21 to have that initiative beyond firm legal 14:20  
22 footing when it comes out of the box, and at 14:20  
23 the same time engage in a very strong effort 14:20  
24 to educate. 14:20  
25 I'm certain that the railroads would be 14:20

1 partners in that, but it will need to come 14:20

2 from whatever arm of government or arms of 14:20

3 government are involved in order to make it 14:20

4 clear that it is based on strong legal 14:20

5 footing. 14:20

6 If we have some legal basis to set aside 14:20

7 deeded crossings or modify the terms of deeded 14:21

8 crossings, we should be prepared to say so. 14:21

9 Much of the time -- and I'm sure this is 14:21

10 part of the feedback you've been getting when 14:21

11 you say that railroads say we've been making 14:21

12 progress -- much of the time that progress can 14:21

13 be made simply by engaging all parties and 14:21

14 finding out what people have. But again, a 14:21

15 lot of the time we can't even get to that 14:21

16 point because there's a simple refusal to 14:21

17 accept any responsibility and any need to 14:21

18 engage. 14:21

19 So I don't know how you overcome that, 14:21

20 but it says to me that we have both a need for 14:21

21 a good, strong legal approach on this and also 14:21

22 education. That point is an excellent point. 14:21

23 And it's probably the single biggest part of 14:21

24 what we need to overcome out there right now 14:21

25 at the cutting edge of it is just the simple 14:21

1 lack of understanding of what these issues are 14:21

2 all about, with people on one hand saying we 14:21

3 have all the rights and none of the 14:21

4 responsibilities, and the railroads the 14:21

5 railroads. 14:22

6 MR. COTHEN: Okay. Thank you. 14:22

7 Any further thoughts right here? 14:22

8 Just to let you know, Federal Railroad 14:22

9 Administration has one hearing officer, and he 14:22

10 handles all the locomotive engineer 14:22

11 certification, appeals for the nation. Does a 14:22

12 good job, makes the parties work. And DOT has 14:22

13 a small stable of ALJs. But I think we're 14:22

14 looking at a budget request to go with this 14:22

15 policy, if that's the one we choose. 14:22

16 Okay. This is good stuff. You all are 14:23

17 doing a good job today. 14:23



1 private crossings; the railroads have got the 14:23  
2 responsibility. 14:23  
3 If we did a more aggressive effort in 14:23  
4 this area we would either need on the policy 14:23  
5 side to find ways of addressing things on a 14:23  
6 retail basis in terms of the use of diagnostic 14:23  
7 teams, which would be a whole new model since 14:24  
8 we don't have a highway traffic authority to 14:24  
9 go out there with us. We would need to study 14:24  
10 low-cost solutions, which is something 14:24  
11 actually we're always doing in the crossing 14:24  
12 area, and studying new inventory technology. 14:24  
13 I think it's fair to say -- Ron, you want 14:24  
14 to comment a little bit on this -- that 14:24  
15 Rinelle Rivera back at our shop is looking at 14:24  
16 a variety of options for easing the updating 14:24  
17 of the inventory. 14:24

18 MR. RIES: We are currently involved in a 14:24  
19 pilot project with CSX using realtime internet 14:24  
20 transfer of information using XML type of 14:24  
21 protocol, and I'll be real honest with you, I 14:24  
22 don't understand what that is, but the system 14:24  
23 would enable state and/or railroad to provide 14:24  
24 information to the inventory. It would do a 14:25  
25 lot -- do the auto-checks, make sure that 14:25

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1 everything is compatible with the field that's 14:25  
2 being entered into, much the same that our 14:25  
3 contractor does now. 14:25  
4 And then once it -- if it doesn't meet 14:25  
5 the parameters it would get sent back 14:25  
6 immediately so the state or railroad would 14:25  
7 know that there's a problem, rather than 14:25  
8 waiting for the batch process, which depending 14:25  
9 on when it's sent in by the state or railroad, 14:25  
10 could take up to 60 days for it to be returned 14:25  
11 to them. And also it would enable a much 14:25  
12 faster update of the inventory information 14:25  
13 that would be available to the public. 14:25  
14 MR. COTHEN: So hopefully we'll see this 14:25  
15 get better. As you know, the department has 14:25  
16 also sent a Bill to the Hill that would 14:25  
17 require mandatory updating of the inventory by 14:25

18 railroads and states on a periodic basis, and 14:25  
19 including getting any crossings in that are 14:26  
20 not in there today. 14:26  
21 It looks like we -- well, we do have 14:26  
22 support in the House of Representatives for 14:26  
23 that bill, and it looks like we may get 14:26  
24 support as of today from the United States 14:26  
25 Senate. 14:26

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1           The railroads obviously have a difficult           14:26

2 task in addressing -- see if I can make this           14:26

3 work. Here is the crossing inventory form,           14:26

4 two pages. And there is the portion of           14:26

5 this -- I don't know how Miriam pulled this           14:26

6 off -- but those are the fields that are           14:26

7 filled out for private crossings.           14:26

8           And it's a much more modest dataset. And           14:26

9 railroads of course have been instrumental in           14:26

10 getting the information that we do have into           14:26

11 inventory. If we were to make -- take a           14:26

12 risk-based approach to private crossings, we           14:27

13 would need additional data. And the           14:27

14 possibility of getting that data from tens of           14:27

15 thousands of crossing holders is slim to none.           14:27

16           So it would probably mean some additional           14:27

17 burden on the railroads to give us some           14:27

18 information about the characteristics of the 14:27  
19 traffic over the crossing at least. And I 14:27  
20 suppose we need more on the geometry. What do 14:27  
21 we need? Miriam? 14:27  
22 MS. KLOEPPEL: Well, you -- currently the 14:27  
23 risk calculations that we perform for public 14:27  
24 crossings include such information as the 14:28  
25 number of trains that go over the crossing, 14:28

1 the amount of highway traffic that goes over 14:28

2 the crossing -- and feel free to pitch in too, 14:28

3 Ron -- the number of accidents that have 14:28

4 occurred at that crossing within a certain 14:28

5 number of years. 14:28

6 MR. RIES: Train speed, number of lanes 14:28

7 of traffic, number of tracks, and the type of 14:28

8 warning device. The setting, whether it's 14:28

9 urban or rural, is also used. 14:28

10 MR. COTHEN: So we would have a big job, 14:28

11 which, again, if we did it, it couldn't be 14:28

12 done all at once and would need to be 14:28

13 prioritized. 14:28

14 And then we would need to build a -- 14:28

15 either from scratch or off the existing APF 14:28

16 suite we would need to build a risk calculator 14:29

17 for use in determining warrants for these 14:29

18 crossings. 14:29

19 Any regime that we had would also need 14:29

20 some impetus to ensure that upon inquiry 14:29

21 crossing holders would provide at least some 14:29

22 information to the railroad. Because I don't 14:29

23 think it's reasonable to suppose we're going 14:29

24 to have railroads putting out traffic 14:29

25 counters, for instance. And that would need 14:29

1 to be a part of the agreement process. 14:29

2 Arguing against doing something like this 14:29

3 is thousands and thousands of data points that 14:29

4 have to be kept up over a long period of time. 14:29

5 Arguing for it would be the ability to focus 14:30

6 potentially on areas of greatest need, get the 14:30

7 job done there, and get it done over a shorter 14:30

8 period of time, with tools, hopefully -- some 14:30

9 tools provided from the federal level. 14:30

10 Thoughts; current concerns; 14:30

11 considerations; unfunded mandates? Anybody? 14:30

12 We've also had discussions on the road 14:30

13 about the possibility that state governments 14:30

14 could produce the public -- the highway side 14:30

15 portion of the inventory here. And, you know, 14:30

16 it's -- it doesn't sound too plausible, 14:31

17 frankly, from what we've been told. 14:31







18 seasonal Christmas tree farms or this kind of 14:32  
19 thing where they are inviting the public onto 14:32  
20 the property, they're going to know about it. 14:32  
21 Or even if it's multiple use, they should know 14:32  
22 about it. 14:32  
23 And it's very hard for the railroad to 14:32  
24 start that out because we don't know 14:32  
25 whether -- even if we could count the 14:32

1 vehicles, we don't know whether they're 14:32

2 invited guests or not. Or where they're 14:32

3 going. 14:32

4 MR. COTHEN: Excellent point. So you 14:32

5 want to keep your crossing, you need to ante 14:32

6 up some information, would be the theory that 14:32

7 would be obtained. Which is arguably fair, 14:33

8 but not only fair, necessary in order to have 14:33

9 a risk-based approach. 14:33

10 It does not ask too much of crossing 14:33

11 holders but asks what's reasonable from those 14:33

12 who need to respond. 14:33

13 Other thoughts about data? Anybody got 14:33

14 some ready-made sources of data that we could 14:33

15 plug into the computer? Bring any tapes with 14:33

16 you? Or what's the media now? I guess it's 14:33

17 DVD these days. 14:33



1 and the characteristics of the traffic over 14:34

2 the crossing is something that would be very 14:34

3 difficult to catch as you're going by at 14:34

4 49 miles an hour. 14:34

5 Okay. That's the set piece part of this 14:34

6 conference. Maybe something we put up or 14:34

7 something someone else said has caused 14:34

8 somebody to have a thought about a dimension 14:34

9 of this issue that we haven't even considered 14:34

10 today. 14:35

11 The floor is open. And again, we looked 14:35

12 at this and had a conference in 1993, and 14:35

13 everybody said this problem can't be solved. 14:35

14 But people have been working on it ever since. 14:35

15 We've come back to it now, and we need 14:35

16 final recommendations to give to our 14:35

17 administrator and the Secretary as to a 14:35

18	direction to take.	14:35
19	Shall we fold our tents; shall we charge	14:35
20	boldly ahead into the valley; or some	14:35
21	combination thereof?	14:35
22	Yes, sir?	14:35
23	MR. LOUIS: Thank you. James Louis,	14:36
24	L-O-U-I-S. I'm the treasurer of the New York	14:36
25	State Legislative Board, and I'm the Alternate	14:36

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1 General Chairman for the Conrail-CSX-Northern 14:36  
2 Committee. 14:36  
3 I'm representing Vice President and 14:36  
4 National Legislative Chairman John Tolman, 14:36  
5 who's also unable to be here today because 14:36  
6 he's testifying before the Senate on the rail 14:36  
7 bill. 14:36  
8 But John asked me if he could pass along 14:36  
9 his regrets for not being here, especially 14:36  
10 because this one was being held, of course, as 14:36  
11 John puts it, in Joe Boardman's neighborhood, 14:36  
12 and because Central New York is proud of 14:36  
13 Administrator Boardman's accomplishments, as 14:36  
14 we are proud of our working relationship that 14:36  
15 we have with the Administrator and with the 14:36  
16 FRA under his leadership. 14:36  
17 On February 15th we submitted comments 14:36

18 to the dockets in this matter, which I would 14:36  
19 like to incorporate by reference at this time. 14:36  
20 Having done that, we'd now like to 14:36  
21 specifically comment on the discussion draft 14:36  
22 previously circulated by the FRA. 14:36  
23 We generally concur with the FRA 14:36  
24 findings. Furthermore, we support an approach 14:37  
25 to a problem of private crossing safety that 14:37



1 involves all relative stakeholders to ensure 14:37  
2 that the policy development is thorough. 14:37  
3 It appears to us that the most 14:37  
4 significant difference between the two options 14:37  
5 proposed by the FRA is that option A would 14:37  
6 have the FRA take a point of developing, 14:37  
7 promoting, and implementing a national policy 14:37  
8 to standardize the various processes by which 14:37  
9 private road crossing safety can be enhanced, 14:37  
10 while option B would provide the statutory 14:37  
11 framework within the FRA to oversee the safety 14:37  
12 enhancements. 14:37  
13 We applaud the bold action proposed by 14:37  
14 the FRA in dealing aggressively with the 14:37  
15 private road crossing safety; moreover, we are 14:37  
16 confident the FRA has what it takes to produce 14:37  
17 a national success with option A. 14:37



1 the FRA has brought forth in this process in 14:38  
2 order to maintain maximum success. Given 14:38  
3 sometime the vast differences in the available 14:38  
4 resources and the laws among the various 14:38  
5 states, we question whether it's realistic to 14:38  
6 expect that across-the-board commitment by 14:38  
7 states to treat private road crossings as a 14:38  
8 priority issue in absence of a strong federal 14:38  
9 incentive. 14:38  
10 We believe the legislation approach 14:38  
11 outlined in option B provides that such an 14:38  
12 incentive. Legislation as outlined in option 14:38  
13 B will focus the attention of all states on 14:38  
14 the needs to prioritize private crossing 14:38  
15 safety in a way that can lead to the 14:38  
16 development and implementation of policies to 14:38  
17 harmonize the current jumble of conditions. 14:38

18	Further, those states who do share our	14:38
19	commitment of the serious improvements can	14:39
20	step up to the plate. Even the state	14:39
21	certification process.	14:39
22	Finally, option B provides railroads a	14:39
23	single set of conditions with dealing with	14:39
24	crossing holders.	14:39
25	These advantages will, we believe,	14:39

1 maximize the positive safety outcome, and 14:39

2 therefore, best serve our interest. 14:39

3 Of course, because I am filling in for 14:39

4 Brother John Tolman today, I would ask you to 14:39

5 direct any question you have to his attention. 14:39

6 And I thank you very much. 14:39

7 MR. COTHEN: Thank you, sir. I've got 14:39

8 John's testimony in my computer here if 14:39

9 anybody wants to see what he's saying today. 14:39

10 Actually, my computer is over there. 14:39

11 Sorry John couldn't be here. We 14:39

12 appreciate your bringing the views from BLET. 14:39

13 Anyone else? Yes, sir? 14:39

14 MR. SALTZ: Brian Saltz, Long Island 14:40

15 Railroad. I know we've talked today about the 14:40

16 cost issues and federal funding, but has there 14:40

17 been -- when all is said and done, is there a 14:40

18 belief on how much of these costs will be on 14:40  
19 the railroads, and do we expect to get the 14:40  
20 federal funds to have this done? 14:40  
21 MR. COTHEN: I think an important thing 14:40  
22 to do is to -- before we get too much farther 14:40  
23 down this road is to understand what kind of 14:40  
24 impacts, order of magnitude we're talking 14:40  
25 about. 14:40

1           You know, my own sense is that certainly           14:40

2   new start-up commuter railroads, for instance,           14:40

3   generally have made a pretty good effort to           14:40

4   get the private crossings out at time when --           14:40

5   as part of the design process, and where           14:40

6   they're not able to get them out to include in           14:41

7   the initial capital investment a standard           14:41

8   array of automated warning devices.           14:41

9           So that's just in the case of commuter           14:41

10   railroads. Commuter railroads that are a           14:41

11   legacy system that are working off some of           14:41

12   these issues on branch lines and so forth, you           14:41

13   know, may have needs that we simply don't           14:41

14   understand. But we need to understand them.           14:41

15           So, you know, for instance, on behalf of           14:41

16   Long Island Railroad, which carries more           14:41

17   passengers than any other passenger railroad           14:41

18 in the United States, if you've got some 14:41

19 information you can give us about what you see 14:41

20 on your property, that would help us to 14:41

21 understand what we need to be asking for. 14:41

22 Right now there's nothing, quote, in the 14:42

23 works, that's going to provide a new pot of 14:42

24 money to address this need from a federal 14:42

25 standpoint. But if there are impacts on 14:42



1 federal transit administration budget or 14:42

2 Federal Highway Administration budget or 14:42

3 Federal Railroad Administration budget, that's 14:42

4 one of the things we need to understand. 14:42

5 MR. BURT: On behalf of the Railroads of 14:42

6 New York, once again I would like to thank you 14:42

7 and your colleagues at FRA for taking an 14:42

8 interest and the work you've put into these 14:42

9 road shows, as you put it. 14:42

10 I think we're all at an early stage in -- 14:42

11 engaged in this process, but obviously, as you 14:42

12 indicated, the thought process in your shop 14:43

13 has gone on for a number of years. 14:43

14 I believe I can speak for our 14:43

15 organization in saying that we urge you not to 14:43

16 accept the advice that the problem can't be 14:43

17 solved, so that it's worth sticking to it; 14:43

18 it's worth progressing. I'm not sure any of 14:43

19 us here in the room knows exactly what we 14:43

20 would do to fix it, but it needs to be fixed. 14:43

21 And with that, I've been impressed with 14:43

22 the level of seriousness of the discussion all 14:43

23 around the room, and we look forward to 14:43

24 working with you as we go forward on this and 14:43

25 other issues. 14:43

1 MR. COTHEN: Thanks very much. If 14:43

2 there's -- that's a good note to end on if 14:43

3 there are no further necessary comments. 14:43

4 I do want to -- I do want to say that we 14:43

5 had hoped that coming out, you know, would 14:43

6 draw in some folks who had issues with private 14:43

7 crossings because their residence is on the 14:43

8 other side of the tracks. 14:43

9 We've had a few of those folks, a very 14:43

10 few of those folks happily in other meetings 14:44

11 have come in, but we really would have wished 14:44

12 to expand this discussion further. And, in 14:44

13 fact, the Volpe Center on our behalf has made 14:44

14 a number of contacts with a number of 14:44

15 organizations representing those kinds of 14:44

16 interests in a specific targeted effort to get 14:44

17 them involved. 14:44



1 DOT for hosting us here and for participating 14:45

2 actively in the meeting. Thanks to all of you 14:45

3 who came, some of you from a good, long way, 14:45

4 to participate in the meeting and to listen 14:45

5 and learn, as we have tried to do. 14:45

6 And we promise to put in the docket this 14:45

7 fall a report summarizing our findings and 14:45

8 probably at some point after that a addendum 14:45

9 that will indicate clearly the policy 14:45

10 direction that we're going to take, there 14:45

11 having been decisions by folks well above our 14:45

12 level. 14:45

13 But I know Administrator Boardman would 14:46

14 want me to note again his distress at not 14:46

15 being with you today and not having the 14:46

16 opportunity to hear from you directly. He did 14:46

17 want to be here; he does take this issue very 14:46

18 seriously; and he does miss the opportunity to 14:46  
19 be back in New York. That's when he seems to 14:46  
20 smile the broadest, when he's heading back 14:46  
21 home. 14:46  
22 If there's nothing else, we will stand 14:46  
23 adjourned. Thanks to everybody. 14:46  
24 (The proceeding was concluded at 2:46 PM.) 14:46

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C E R T I F I C A T I O N

I, SALLYANNE B. MAIORANO, Registered Merit  
Reporter, Certified Realtime Reporter, Certified CART  
Provider, Certified Shorthand Reporter, and Notary Public in  
and for the State of New York, DO HEREBY CERTIFY that I  
attended the foregoing proceedings, took stenographic notes  
of the same, that the foregoing is a true and correct copy of  
same and the whole thereof.

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19

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SALLYANNE B. MAIORANO, RMR, CRR, CCP, CSR

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23 Dated: August 7, 2007

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BEFORE THE  
FEDERAL RAILROAD ADMINISTRATION

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DOCKET NO. FRA-2005-23281:  
SAFETY OF PRIVATE HIGHWAY-RAIL GRADE  
CROSSINGS: NOTICE OF SAFETY INQUIRY

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COMMENTS OF THE  
ASSOCIATION OF AMERICAN RAILROADS

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The Association of American Railroads (AAR),<sup>1</sup> on behalf of itself and its member railroads, submits the following written comments regarding FRA's inquiry into the safety of private highway-rail grade crossings. AAR and member railroads participated in each of the public meetings conducted by FRA on this issue. These comments supplement statements made by AAR representatives at those meetings.

Grade-crossing safety is of paramount concern to the railroad industry. While the number of grade-crossing fatalities has declined 56 percent since 1980 and 47 percent since 1990, grade-crossing accidents do account for 40 percent of the railroad industry's fatalities. As the statistics published by FRA show, a significant percentage of the grade-crossing fatalities, roughly 10 percent, are attributable to private crossings.

There are a wide variety of private grade crossings, ranging from agricultural crossings that might be used only a couple of times annually to crossings widely used by the public, but located on private property. From a public safety perspective, the crossings of most concern are the quasi-public crossings that are

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<sup>1</sup>AAR is a trade association whose membership includes freight railroads that operate 76 percent of the line-haul mileage, employ 93 percent of the workers, and account for 95 percent of the freight revenue of all railroads in the United States; and passenger railroads that operate intercity passenger trains and provide commuter rail service.

private in name but that have a traffic volume that closely resembles public crossings.

A significant problem with these quasi-public crossings is that while they present all the problems that public crossings do, public agencies generally do not take responsibility for the crossings from a safety perspective. It would make sense for public authorities to take responsibility for such crossings. After all, private crossings do not exist for the benefit of the railroad industry.

Another step that would make sense would be to prohibit the creation of new private crossings unless there was a specific agreement with the railroad owning the track and a public authority determines that the crossing is needed. Agreements ensure that responsibilities for the crossing are well understood.

Of course, the best solution to grade-crossing accidents of all types is to close grade crossings. While many grade crossings are a necessary component of a transportation system and cannot be closed, some are redundant and can be closed relatively easily and in other cases it is worth the investment to separate the motor vehicle traffic from the railroad right-of-way or secure rights to alternative access that avoids an at-grade crossing. Grade-crossing closure is a specific objective of DOT's 2004 action plan for highway-rail crossing safety and should remain a Department objective.<sup>2</sup> In particular, AAR encourages rail corridor crossing safety reviews that focus on identifying opportunities for closure and consolidation of both public and private crossings.

For the public meetings, FRA circulated an "options paper" containing two options. AAR's comments on the two options follow.

Option A provides for a new "National Policy" addressing private grade crossings. It contains some laudable policies, such as:

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<sup>2</sup>Secretary's Action Plan: Highway-Rail Crossing Safety and Trespass Prevention, p. 8 ([http://www.fra.dot.gov/downloads/safety/action\\_plan\\_2004.pdf](http://www.fra.dot.gov/downloads/safety/action_plan_2004.pdf)).

- a declaration that new private crossings are disfavored except where the need is clearly established;
- a declaration that every private crossing should have a recorded agreement;
- a declaration that states should be notified of land use changes that might affect safety at a private crossing; and
- national guidelines for diagnostic teams evaluating private crossings.

It is unclear that option A would actually result in any improvements. Many of the objectives are admirable, but option A avoids the difficult question of how to accomplish them. Indeed, many of the objectives have been discussed before. Merely identifying the objectives in a national policy would not bring the nation significantly closer to accomplishing them.

Furthermore, option A would rely heavily on encouraging states to increase involvement in safety at private crossings even though most states do not choose to exercise jurisdiction over private crossings and there is little reason to believe that mere encouragement of such involvement would actually yield positive results. At best, adoption of recommended standards by some states and not others would lead only to widely divergent and inconsistent practices across the country.

Under option B, Congress would explicitly give DOT the authority to regulate safety at private grade crossings. DOT regulations would embody some of the same objectives contained in option A and would include the following features:

- provide a procedure for railroads, state agencies, and FRA to challenge the creation of new private crossings;
- provide a procedure for railroads to challenge the continued necessity for existing private crossings;
- require agreements between railroads and the holders of private crossing rights;

- provide a dispute resolution procedure where disputes arise between railroads and holders of private crossing rights;
- specify signage;
- require signage or locked gates for agricultural crossings where train speed exceeds 25 mph;
- require the approval of a railroad dispatcher to cross where the maximum authorized train speed exceeds 49 mph;
- treat “public use” private crossings as if they were public crossings for the purposes of signage and train horns; and
- require railroads to include private crossings in their inventories.

It is unclear to AAR why FRA is suggesting new legislation for Option B. It would be problematic if legislation were necessary, because it is extremely unlikely legislation would be enacted in the foreseeable future. Rail safety reauthorization legislation is currently winding its way through Congress and it likely will be a considerable period of time before a new reauthorization bill is considered. A second problem with Option B is that such an approach is likely to engender considerable opposition from holders of private crossing rights and the general public at large. (For example, communities might strongly oppose the proposal to treat private crossings the same as public crossings for the purpose of sounding the train horn.) A third problem is that there has been no analysis showing that the benefits of the various provisions would be commensurate with the costs, i.e., would the provisions really enhance safety at private crossings? Finally, while AAR believes it premature to address all the details of this option, the concept of using a railroad dispatcher to control motor vehicle traffic is inimical to safety.

AAR recognizes that it is “easy to be a critic.” Clearly, there is no simple solution to the “problem” of private crossings. AAR does believe that the public meetings in this docket have been very helpful in shedding light on this difficult situation and in identifying some of the constraints on government intervention at the federal, state, and local levels. AAR and its members are certainly willing to explore with FRA and other interested parties ways that FRA could work with the

railroads to improve the safety of private crossings. For example, government can play a useful role in promoting public education and should consider incentive programs similar to the Section 130 program for public crossings.

Respectfully submitted,

A handwritten signature in cursive script that reads "Michael J. Rush".

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# **Appendix A.8**

## **State Law Compilations**

Private Crossings: State Laws Outline  
 1999 Supplement or State \$ Provided by  
 edition MUTCD (as of 2005) FRA In 2002 RHCSAPSP Comments

Region 1					
State	1999 edition	Supplement or State MUTCD (as of 2005)	\$ Provided by FRA In 2002	RHCSAPSP Comments	
CT	X	X			
ME	X				X
MA	X	X			X
NH	X				State Law states that when it is determined that a private crossing is being used to an extent that it may be considered a public highway, the State may require the grade crossing to be laid out as a public highway, constructed and equipped as such. The railroad will not be charged.
NJ	X				Railroads must provide and keep in good condition all private crossings.
NY	X	X	X \$1,500,000	X	If any new private crossing is established, the state may prescribe the manner of the crossing, whether it is to be at grade or separated, the location, the type of warning devices and the apportionment of the responsibility for maintenance thereof.
RI	X				The state may close a private crossing if it is deemed hazardous to safety.
VT					

Region 2					
State	1999 edition	Supplement or State MUTCD (as of 2005)	\$ Provided by FRA In 2002	RHCSAPSP Comments	
DE		X		X	
MD	X	X			The conversion of a private road grade crossing to a public highway grade crossing is a projection of a public highway over the railroad by the public authority taking jurisdiction of the private road.
OH	X		X \$163,000	X	
PA		X			
VA	X	X		X	The state forbids the construction of at-grade crossings of railroads and private roads. Such crossings must be grade separated.
WV		X (under development)			

Region 3					
State	1999 edition	Supplement or State MUTCD (as of 2005)	\$ Provided by FRA In 2002	RHCSAPSP Comments	
AL			X \$383,000	X	
FL	X			X	The state requires crossbuck signs be erected at all private highway-rail crossings. The state also requires all traffic control devices, including those signs and pavement markings on private property where the public is invited, to meet MUTCD standards
GA				X	
KY				X	
MS			X \$1,417,000		
NC		X			The state will close all private crossings where feasible and protect the ones that will remain open with crossbucks, automatic flashers, signals and gates
SC	X		X \$800,000		The state is to protect private road crossings as the law requires them to protect public highways
TN				X	

Region 4					
State	1999 edition	Supplement or State MUTCD (as of 2005)	\$ Provided by FRA In 2002	RHCSAPSP Comments	
IL		X		X	
IN		X		X	
MI	X	X		X	State law states that any unauthorized traffic control device or other sign or message placed on highway right-of-way by a private organization should be removed.
MN	X	X	X \$250,000	X	The state shall adopt rules that establish minimum safety standards at all private railroad grade crossings in the state.
WI		X	X \$250,000	X	

Region 5					
State	1999 edition	Supplement or State MUTCD (as of 2005)	\$ Provided by FRA In 2002	RHCSAPSP Comments	
AR					
LA			X \$200,000		
NM					
OK	X				The railroad is required by state law to build and maintain a private crossing upon request
TX		X		X	



Private Crossings: State Laws Outline

1999 Supplement or State \$ Provided by  
 edition MUTCD (as of 2005) FRA In 2002 RHCSAPSP Comments

**Region 6**

CO			X			In section 321.259, the state law states that all unauthorized signs, signals and markings are prohibited on public and private property
IA	X					The railroad is required by state law to build and maintain a private crossing upon request
KS	X		X			If it is determined that a private crossing is utilized by the public to such an extent that it is necessary to protect the public safety, then the state may order the installation of crossing warning devices and apportion the cost among the parties according to the benefits accruing to each
MO	X				X	The state has jurisdiction over all crossings outside of incorporated villages, towns, and cities, both public and private, across, over or under all railroads in the state.
NE	X		X		X	

**Region 7**

AZ			X			
CA	X		X		X \$200,000	The state may order STOP signs be placed at all farm and private crossings where no automatic gates exist, unless the signs would constitute an additional safety hazard.
NV						
UT	X		X			

**Region 8**

AK			X			X	Alaska is mentioned in the Railroad-Highway Crossing Safety Action Plan Support Proposal as a state who has acted to standardize responsibilities and treatments for private crossings
ID			X				
MT							
ND							
OR	X		X			X	The state shall, at every private crossing with no automatic protective device installed, install and maintain one or more stop signs. Also, private property owners are encouraged to conform to the MUTCD when installing devices.
SD	X						State law reserves the right to order railroads to construct and maintain a private crossing.
WA			X				
WY							



# **Appendix A.9**

## **Statistical Data Review**

<b>Crossing Incidents, 1985-2006</b>			
<b>Year</b>	<b>Public</b>	<b>Private</b>	<b>Total</b>
<b>1985</b>	6353	566	<b>6919</b>
<b>1986</b>	5868	528	<b>6396</b>
<b>1987</b>	5859	532	<b>6391</b>
<b>1988</b>	6025	590	<b>6615</b>
<b>1989</b>	5979	546	<b>6525</b>
<b>1990</b>	5235	481	<b>5716</b>
<b>1991</b>	4862	525	<b>5387</b>
<b>1992</b>	4478	449	<b>4927</b>
<b>1993</b>	4480	455	<b>4935</b>
<b>1994</b>	4523	476	<b>4999</b>
<b>1995</b>	4168	481	<b>4649</b>
<b>1996</b>	3799	469	<b>4268</b>
<b>1997</b>	3416	451	<b>3867</b>
<b>1998</b>	3097	424	<b>3521</b>
<b>1999</b>	3110	402	<b>3512</b>
<b>2000</b>	3113	476	<b>3589</b>
<b>2001</b>	2843	394	<b>3237</b>
<b>2002</b>	2709	368	<b>3077</b>
<b>2003</b>	2607	370	<b>2977</b>
<b>2004</b>	2654	423	<b>3077</b>
<b>2005</b>	2633	420	<b>3053</b>
<b>2006</b>	2505	419	<b>2924</b>
<b>TOTAL</b>	<b>90316</b>	<b>10245</b>	<b>100561</b>
<b>Max</b>	<b>6353</b>	<b>590</b>	<b>6919</b>
<b>Min</b>	<b>2505</b>	<b>368</b>	<b>2924</b>
<b>% Change</b>	<b>60.6%</b>	<b>37.6%</b>	<b>57.7%</b>

**Source:** US DOT FRA RAIRS Database, October 2007

<b>Collision at Private Crossings, 1986-2006</b>			
<b>Year</b>	<b>Incidents</b>	<b>Fatalities</b>	<b>Injuries</b>
1985	566	45	137
1986	528	38	110
1987	532	26	107
1988	590	37	150
1989	546	44	141
1990	481	49	130
1991	525	43	140
1992	449	44	130
1993	455	41	83
1994	476	43	107
1995	481	54	117
1996	469	39	122
1997	451	42	133
1998	424	43	97
1999	402	39	136
2000	476	56	140
2001	394	35	119
2002	368	41	133
2003	370	34	114
2004	423	38	137
2005	420	30	128
2006	419	44	133

**Source:** US DOT FRA RAIRS Database, October 2007

Number of Incidents at Crossings by Warning Devices, 1997-2006								
	Gates	Lights <sup>1</sup>	Other Active Warning Devices <sup>2</sup>	Crossbucks	StopSign	Other <sup>3</sup>	None	Total
<b>Private</b>	122	183	36	1289	1432	137	948	4147
<b>Public</b>	8860	6272	376	9927	2988	97	167	28687

Source: US DOT FRA RAIRS Database, October 2007

<sup>1</sup> Light includes incident at crossing with Standard & Cantilever Flashing Lights

<sup>2</sup> Other Active Warning Devices includes incidents at WigWag, Highway Traffic Signal, and Audible

<sup>3</sup> Other includes incidents at crossing with Watchman, Flagged by Crew, and Other

<b>Collision at Private Crossings by Train Speed, 1997-2006</b>												
	<b>0 to &lt;10</b>	<b>10 to &lt;20</b>	<b>20 to &lt;30</b>	<b>30 to &lt;40</b>	<b>40 to &lt;50</b>	<b>50 to &lt;60</b>	<b>60 to &lt;70</b>	<b>70 to &lt;80</b>	<b>80 to &lt;90</b>	<b>90 to &lt;100</b>	<b>100 to &lt;110</b>	<b>TOTAL</b>
<b>1997</b>	110	49	64	52	110	43	8	9	0	1	1	<b>447</b>
<b>1998</b>	126	50	53	59	81	29	12	12	0	0	1	<b>423</b>
<b>1999</b>	132	37	48	55	68	33	10	16	0	0	0	<b>399</b>
<b>2000</b>	135	51	56	73	77	53	10	14	1	0	0	<b>470</b>
<b>2001</b>	105	46	40	65	74	39	8	14	0	0	0	<b>391</b>
<b>2002</b>	102	36	52	43	63	39	11	16	2	0	0	<b>364</b>
<b>2003</b>	97	39	59	55	66	27	11	12	0	0	0	<b>366</b>
<b>2004</b>	113	51	59	66	81	31	11	6	2	0	0	<b>420</b>
<b>2005</b>	135	40	45	70	70	37	8	9	0	0	0	<b>414</b>
<b>2006</b>	139	36	53	56	74	37	10	11	0	0	0	<b>416</b>
<b>TOTAL</b>	<b>1194</b>	<b>435</b>	<b>529</b>	<b>594</b>	<b>764</b>	<b>368</b>	<b>99</b>	<b>119</b>	<b>5</b>	<b>1</b>	<b>2</b>	<b>4110</b>

**Note:** 2.25% of the incident data were not coded for train speed.

**Source:** US DOT FRA RAIRS Database, October 2007

Number of Incidents at Crossings by Type of Development, 1997-2006						
	Farm/Open Space	Recreational / Institutional	Residential	Industrial	Not Available	Total
Private	1223	75	509	1333	1007	4147
Public	8337	320	6338	11910	1782	28687

**Source:** USDOT National Highway-Rail Crossing Inventory, November 2006  
 US DOT FRA RAIRS Database, October 2007



Number of Incidents at Crossings by Roadway Users, 1997-2006												
	Auto	Truck	Truck-trailer	Pickup truck	Van	Bus	School bus	Motorcycle	Other motor vehicle	Pedestrian	Other (specify in narrative)	Total
Private	1280	673	1176	566	144	6	1	6	185	32	78	4147
Public	14674	3028	3493	4220	1140	49	22	86	690	883	400	28685

**Source:** US DOT FRA RAIRS Database, October 2007

Type of Private Crossing by Warning Devices									
	Gates	Lights	Other Active Devices	Stop sign	Crossbucks	Other	None	Blank	Total
Farm	100	35	24	2707	944	213	20314	31511	<b>55848</b>
Residential	45	28	16	606	466	25	3495	6991	<b>11672</b>
Recreation	12	8	1	68	34	1	471	972	<b>1567</b>
Industrial	143	144	88	826	439	60	6465	13759	<b>21924</b>
Commercial	11	12	5	25	57	4	123	29	<b>266</b>
Not Available	1	0	0	4	3	0	261	1382	<b>1651</b>
<b>Total</b>	<b>312</b>	<b>227</b>	<b>134</b>	<b>4236</b>	<b>1943</b>	<b>303</b>	<b>31129</b>	<b>54644</b>	<b>92928</b>

**Source:** US DOT National Highway-Rail Crossing Inventory, November 2006

**Note:** 59% of the private crossing were not coded for warning device types and 1.8% of private crossing were not coded for private crossing types

Motor Vehicle Collisions at Private Crossings by Traffic Control Device, 1986-2006																		
Year	Automatic gates		Flashing lights		Highway signals, wigwag, or Audible		Watchman, or Flagged by crew		No signs or signals		Crossbucks		STOP signs		Other signs		Total	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
1997	14	3.1	21	4.7	4	0.9	6	1.3	111	24.6	167	37.0	118	26.2	10	2.2	451	100.0
1998	11	2.6	20	4.7	7	1.7	10	2.4	104	24.5	146	34.4	122	28.8	4	0.9	424	100.0
1999	12	3.0	13	3.2	5	1.2	5	1.2	121	30.1	127	31.6	113	28.1	6	1.5	402	100.0
2000	8	1.7	21	4.4	4	0.8	9	1.9	103	21.6	164	34.5	159	33.4	8	1.7	476	100.0
2001	12	3.0	14	3.6	3	0.8	7	1.8	84	21.3	142	36.0	126	32.0	6	1.5	394	100.0
2002	13	3.5	14	3.8	2	0.5	2	0.5	69	18.8	128	34.8	132	35.9	8	2.2	368	100.0
2003	14	3.8	21	5.7	3	0.8	7	1.9	93	25.1	111	30.0	115	31.1	6	1.6	370	100.0
2004	18	4.3	21	5.0	6	1.4	4	0.9	100	23.6	101	23.9	168	39.7	5	1.2	423	100.0
2005	12	2.9	22	5.2	0	0.0	6	1.4	81	19.3	114	27.1	177	42.1	8	1.9	420	100.0
2006	8	1.9	16	3.8	2	0.5	16	3.8	82	19.6	89	21.2	202	48.2	4	1.0	419	100.0

Source: US DOT FRA RAIRS Database, October 2007

year 1997-2006			
Traffic control device	Incidents	Percent	Cumulative %
STOP signs	143	34.5	34.5
Crossbucks	129	31.1	65.6
No signs or signals	95	22.9	88.5
Flashing lights	18	4.4	92.9
Automatic gates	12	2.9	95.8
Watchman or Flagged by Crew	7	1.7	97.6
Other signs	7	1.6	99.1
Highway signal, WigWag, or Audible	4	0.9	100.0
Total	414		

**Source:** US DOT FRA RAIRS Database, October 2007

<b>Incident at Private Crossings by Train Speed, 1997-2006</b>			
<b>Train Speed</b>	<b>Incident</b>	<b>% of Incident</b>	<b>Cumulative %</b>
0 to <10	1194	29.1%	29.1%
40 to <50	764	18.6%	47.6%
30 to <40	594	14.5%	62.1%
20 to <30	529	12.9%	75.0%
10 to <20	435	10.6%	85.5%
50 to <60	368	9.0%	94.5%
70 to <80	119	2.9%	97.4%
60 to <70	99	2.4%	99.8%
80 to <90	5	0.1%	99.9%
90 to <100	1	0.0%	100.0%
100 to 110	2	0.0%	100.0%
<b>TOTAL</b>	4110		

Source: US DOT FRA RAIRS Database, October 2007

<b>Incident at Public Crossings by Train Speed, 1997-2006</b>			
<b>Train Speed</b>	<b>Incident</b>	<b>% of Incident</b>	<b>Cumulative %</b>
40 to <50	5444	19.5%	19.5%
0 to <10	5400	19.3%	38.8%
30 to <40	4688	16.8%	55.5%
20 to <30	4450	15.9%	71.4%
10 to <20	3847	13.7%	85.2%
50 to <60	2459	8.8%	93.9%
60 to <70	955	3.4%	97.4%
70 to <80	710	2.5%	99.9%
80 to <90	25	0.1%	100.0%
90 to <100	5	0.0%	100.0%
100 to 110	0	0.0%	100.0%
<b>TOTAL</b>	27983		

Source: US DOT FRA RAIRS Database, October 2007

Incidents at Public Crossings by Train Speed												
	0 to <10	10 to <20	20 to <30	30 to <40	40 to <50	50 to <60	60 to <70	70 to <80	80 to <90	90 to <100	100 to 110	TOTAL
1997	647	472	517	559	679	279	93	77	2	0	0	3325
1998	602	435	448	509	604	274	91	66	3	0	0	3032
1999	571	408	474	513	580	309	122	62	1	0	0	3040
2000	539	413	483	530	610	273	119	80	2	1	0	3050
2001	532	378	455	472	495	261	98	74	4	1	0	2770
2002	527	354	426	452	491	221	99	77	1	0	0	2648
2003	503	363	385	414	501	211	80	75	4	2	0	2538
2004	472	360	446	430	497	222	91	72	4	0	0	2594
2005	519	353	424	406	488	211	90	59	1	1	0	2552
2006	488	311	392	403	499	198	72	68	3	0	0	2434
<b>TOTAL</b>	<b>5400</b>	<b>3847</b>	<b>4450</b>	<b>4688</b>	<b>5444</b>	<b>2459</b>	<b>955</b>	<b>710</b>	<b>25</b>	<b>5</b>	<b>0</b>	<b>27983</b>

Source: US DOT FRA RAIRS Database, October 2007

Freight Train Incidents at Public Crossings by Train Speed												
	0 to <10	10 to <20	20 to <30	30 to <40	40 to <50	50 to <60	60 to <70	70 to <80	80 to <90	90 to <100	100 to 110	TOTAL
1997	335	351	455	515	619	240	49	4	0	0	0	2568
1998	282	313	387	472	555	236	38	8	0	0	0	2291
1999	273	288	416	458	527	256	60	4	1	0	0	2283
2000	283	312	421	473	569	232	68	10	0	0	0	2368
2001	269	242	385	436	454	226	59	8	0	0	0	2079
2002	265	248	368	403	461	198	59	10	0	0	0	2012
2003	264	271	326	378	457	177	48	7	0	0	0	1928
2004	230	265	391	392	447	201	44	4	0	0	0	1974
2005	257	256	376	369	452	180	48	6	0	0	0	1944
2006	219	227	341	371	460	168	38	2	0	0	0	1826
<b>TOTAL</b>	<b>2677</b>	<b>2773</b>	<b>3866</b>	<b>4267</b>	<b>5001</b>	<b>2114</b>	<b>511</b>	<b>63</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>21273</b>

Source: US DOT FRA RAIRS Database, October 2007

Passenger Train Incidents at Public Crossings by Train Speed												
	0 to <10	10 to <20	20 to <30	30 to <40	40 to <50	50 to <60	60 to <70	70 to <80	80 to <90	90 to <100	100 to 110	TOTAL
1997	12	16	24	23	29	24	43	73	2	0	0	246
1998	5	9	20	13	27	33	51	58	3	0	0	219
1999	10	23	20	32	31	43	61	57	0	0	0	277
2000	11	20	20	25	28	33	49	70	2	1	0	259
2001	14	15	19	20	30	29	39	66	4	1	0	237
2002	3	13	25	25	18	20	40	67	1	0	0	212
2003	2	11	20	20	27	31	32	68	4	2	0	217
2004	10	14	18	22	34	17	43	66	4	0	0	228
2005	10	18	17	15	23	28	42	52	1	1	0	207
2006	8	15	16	23	26	28	32	66	3	0	0	217
<b>TOTAL</b>	<b>85</b>	<b>154</b>	<b>199</b>	<b>218</b>	<b>273</b>	<b>286</b>	<b>432</b>	<b>643</b>	<b>24</b>	<b>5</b>	<b>0</b>	<b>2319</b>

Source: US DOT FRA RAIRS Database, October 2007

Other Train Incidents at Public Crossings by Train Speed												
	0 to <10	10 to <20	20 to <30	30 to <40	40 to <50	50 to <60	60 to <70	70 to <80	80 to <90	90 to <100	100 to 110	TOTAL
1997	299	105	38	21	31	15	1	0	0	0	0	510
1998	315	113	41	24	22	5	2	0	0	0	0	522
1999	288	97	38	23	22	10	1	1	0	0	0	480
2000	245	81	42	32	13	8	2	0	0	0	0	423
2001	249	121	51	16	11	6	0	0	0	0	0	454
2002	259	93	33	24	12	3	0	0	0	0	0	424
2003	235	80	39	16	17	3	0	0	0	0	0	390
2004	224	75	37	16	16	4	4	2	0	0	0	378
2005	239	72	31	21	13	3	0	1	0	0	0	380
2006	241	64	33	9	13	2	2	0	0	0	0	364
<b>TOTAL</b>	<b>2594</b>	<b>901</b>	<b>383</b>	<b>202</b>	<b>170</b>	<b>59</b>	<b>12</b>	<b>4</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>4325</b>

Source: US DOT FRA RAIRS Database, October 2007

Incidents at Private Crossings by Train Speed												
	0 to <10	10 to <20	20 to <30	30 to <40	40 to <50	50 to <60	60 to <70	70 to <80	80 to <90	90 to <100	100 to 110	TOTAL
1997	110	49	64	52	110	43	8	9	0	1	1	447
1998	126	50	53	59	81	29	12	12	0	0	1	423
1999	132	37	48	55	68	33	10	16	0	0	0	399
2000	135	51	56	73	77	53	10	14	1	0	0	470
2001	105	46	40	65	74	39	8	14	0	0	0	391
2002	102	36	52	43	63	39	11	16	2	0	0	364
2003	97	39	59	55	66	27	11	12	0	0	0	366
2004	113	51	59	66	81	31	11	6	2	0	0	420
2005	135	40	45	70	70	37	8	9	0	0	0	414
2006	139	36	53	56	74	37	10	11	0	0	0	416
<b>TOTAL</b>	<b>1194</b>	<b>435</b>	<b>529</b>	<b>594</b>	<b>764</b>	<b>368</b>	<b>99</b>	<b>119</b>	<b>5</b>	<b>1</b>	<b>2</b>	<b>4110</b>

Source: US DOT FRA RAIRS Database, October 2007

Freight Train Incidents at Private Crossings by Train Speed												
	0 to <10	10 to <20	20 to <30	30 to <40	40 to <50	50 to <60	60 to <70	70 to <80	80 to <90	90 to <100	100 to 110	TOTAL
1997	43	30	54	50	106	35	2	0	0	0	0	320
1998	42	32	47	55	74	25	5	2	0	0	0	282
1999	48	21	41	51	59	31	6	2	0	0	0	259
2000	48	27	49	70	72	43	6	0	0	0	0	315
2001	40	34	35	60	66	34	6	2	0	0	0	277
2002	30	22	44	39	57	35	5	2	0	0	0	234
2003	33	27	53	51	60	24	9	2	0	0	0	259
2004	38	29	48	61	74	26	8	1	0	0	0	285
2005	49	28	38	64	65	32	4	0	0	0	0	280
2006	39	23	48	51	69	31	7	0	0	0	0	268
<b>TOTAL</b>	<b>410</b>	<b>273</b>	<b>457</b>	<b>552</b>	<b>702</b>	<b>316</b>	<b>58</b>	<b>11</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2779</b>

Source: US DOT FRA RAIRS Database, October 2007

Passenger Train Incidents at Public Crossings by Train Speed												
	0 to <10	10 to <20	20 to <30	30 to <40	40 to <50	50 to <60	60 to <70	70 to <80	80 to <90	90 to <100	100 to 110	TOTAL
1997	3	3	3	1	0	7	6	9	0	1	1	34
1998	5	3	0	2	4	3	7	10	0	0	1	35
1999	1	2	2	2	2	2	4	14	0	0	0	29
2000	3	3	2	1	3	8	3	14	1	0	0	38
2001	3	2	0	2	4	5	2	12	0	0	0	30
2002	1	1	1	1	4	4	5	14	2	0	0	33
2003	2	2	2	1	3	2	2	10	0	0	0	24
2004	1	1	3	0	5	1	3	5	2	0	0	21
2005	1	1	0	2	1	5	3	9	0	0	0	22
2006	2	2	2	2	3	5	3	11	0	0	0	30
<b>TOTAL</b>	<b>22</b>	<b>20</b>	<b>15</b>	<b>14</b>	<b>29</b>	<b>42</b>	<b>38</b>	<b>108</b>	<b>5</b>	<b>1</b>	<b>2</b>	<b>296</b>

Source: US DOT FRA RAIRS Database, October 2007

Other Train Incidents at Public Crossings by Train Speed												
	0 to <10	10 to <20	20 to <30	30 to <40	40 to <50	50 to <60	60 to <70	70 to <80	80 to <90	90 to <100	100 to 110	TOTAL
1997	64	16	7	1	4	1	0	0	0	0	0	93
1998	79	15	6	2	3	1	0	0	0	0	0	106
1999	83	14	5	2	7	0	0	0	0	0	0	111
2000	84	21	5	2	2	2	1	0	0	0	0	117
2001	62	10	5	3	4	0	0	0	0	0	0	84
2002	71	13	7	3	2	0	1	0	0	0	0	97
2003	61	10	4	3	3	1	0	0	0	0	0	82
2004	73	21	7	5	2	3	0	0	0	0	0	111
2005	83	9	6	4	4	0	1	0	0	0	0	107
2006	98	9	3	3	2	1	0	0	0	0	0	116
<b>TOTAL</b>	<b>758</b>	<b>138</b>	<b>55</b>	<b>28</b>	<b>33</b>	<b>9</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1024</b>

Source: US DOT FRA RAIRS Database, October 2007

Private Crossing Incidents by Train Speed, 1997-2006												
	0 to <10	10 to <20	20 to <30	30 to <40	40 to <50	50 to <60	60 to <70	70 to <80	80 to <90	90 to <100	100 to 110	TOTAL
1997	110	49	64	52	110	43	8	9	0	1	1	447
1998	126	50	53	59	81	29	12	12	0	0	1	423
1999	132	37	48	55	68	33	10	16	0	0	0	399
2000	135	51	56	73	77	53	10	14	1	0	0	470
2001	105	46	40	65	74	39	8	14	0	0	0	391
2002	102	36	52	43	63	39	11	16	2	0	0	364
2003	97	39	59	55	66	27	11	12	0	0	0	366
2004	113	51	59	66	81	31	11	6	2	0	0	420
2005	135	40	45	70	70	37	8	9	0	0	0	414
2006	139	36	53	56	74	37	10	11	0	0	0	416
<b>TOTAL</b>	<b>1194</b>	<b>435</b>	<b>529</b>	<b>594</b>	<b>764</b>	<b>368</b>	<b>99</b>	<b>119</b>	<b>5</b>	<b>1</b>	<b>2</b>	<b>4110</b>

Source: US DOT FRA RAIRS Database, October 2007

Private Crossing Injuries by Train Speed, 1997-2006												
	0 to <10	10 to <20	20 to <30	30 to <40	40 to <50	50 to <60	60 to <70	70 to <80	80 to <90	90 to <100	100 to 110	TOTAL
1997	17	15	12	19	34	24	5	6	0	0	0	132
1998	18	8	18	9	21	12	3	8	0	0	0	97
1999	16	13	20	31	24	13	10	8	0	0	0	135
2000	19	15	13	18	38	19	4	10	3	0	0	139
2001	14	6	18	23	32	11	3	11	0	0	0	118
2002	14	9	11	13	30	17	2	15	20	0	0	131
2003	12	4	17	15	30	6	5	24	0	0	0	113
2004	14	11	26	22	37	15	5	6	1	37	0	137
2005	22	5	17	27	26	13	10	5	0	0	0	125
2006	14	5	22	22	23	12	8	26	0	0	0	132
<b>TOTAL</b>	<b>160</b>	<b>91</b>	<b>174</b>	<b>199</b>	<b>295</b>	<b>142</b>	<b>55</b>	<b>119</b>	<b>24</b>	<b>0</b>	<b>0</b>	<b>1259</b>

Source: US DOT FRA RAIRS Database, October 2007

Private Crossing Fatalities by Train Speed, 1997-2006												
	0 to <10	10 to <20	20 to <30	30 to <40	40 to <50	50 to <60	60 to <70	70 to <80	80 to <90	90 to <100	100 to 110	TOTAL
1997	1	0	4	4	18	6	3	5	0	0	1	42
1998	0	0	1	8	17	8	4	4	0	0	1	43
1999	0	2	1	6	12	7	3	8	0	0	0	39
2000	1	0	2	14	12	14	8	4	0	0	0	55
2001	1	0	1	6	12	6	3	6	0	0	0	35
2002	2	0	1	5	11	12	4	6	0	0	0	41
2003	0	0	1	3	7	5	10	8	0	0	0	34
2004	0	0	2	9	7	11	2	6	1	0	0	38
2005	1	1	1	2	11	7	5	2	0	0	0	30
2006	2	0	2	5	14	8	3	10	0	0	0	44
<b>TOTAL</b>	<b>8</b>	<b>3</b>	<b>16</b>	<b>62</b>	<b>121</b>	<b>84</b>	<b>45</b>	<b>59</b>	<b>1</b>	<b>0</b>	<b>2</b>	<b>401</b>

Source: US DOT FRA RAIRS Database, October 2007



<b>Overall Distribution of Crossings by Type of Development</b>									
	<b>Farm</b>	<b>Open Space</b>	<b>Residential</b>	<b>Industrial</b>	<b>Commercial</b>	<b>Recreational</b>	<b>Institutional</b>	<b>Not Available</b>	<b>Total</b>
<b>Private</b>	55846	<b>N/A</b>	11672	21924	266	1567	<b>N/A</b>	1651	92926
<b>Public</b>	<b>N/A</b>	55298	34048	22903	30883	<b>N/A</b>	1802	0	144934

**Source:** US DOT National Highway-Rail Crossing Inventory, November 2006

Collision at Private Crossings by Roadway User, 1997-2006												
	Auto	Truck	Truck-trailer	Pick-up truck	Van	Bus	School bus	Motorcycle	Other motor	Pedestrian	Other	Total
1997	185	92	118	30	6	1	0	0	8	1	10	451
1998	133	88	117	46	13	0	0	0	20	2	5	424
1999	142	65	104	47	18	1	0	0	12	4	9	402
2000	165	79	112	72	16	0	0	0	19	1	12	476
2001	114	57	112	59	11	1	1	0	14	4	21	394
2002	116	59	102	54	11	1	0	1	11	0	13	368
2003	104	59	102	58	16	1	0	0	25	3	2	370
2004	98	68	121	80	16	0	0	1	32	6	1	423
2005	107	56	142	62	25	0	0	2	20	3	3	420
2006	116	50	146	58	12	1	0	2	24	8	2	419
<b>TOTAL</b>	<b>1280</b>	<b>673</b>	<b>1176</b>	<b>566</b>	<b>144</b>	<b>6</b>	<b>1</b>	<b>6</b>	<b>185</b>	<b>32</b>	<b>78</b>	<b>4147</b>

Source: US DOT National Highway-Rail Crossing Inventory, November 2006

Source: US DOT FRA RAIRS Database, October 2007

Collision at Farm Private Crossings by Roadway User, 1997-2006												
	Auto	Truck	Truck-trailer	Pick-up truck	Van	Bus	School bus	Motorcycle	Other motor	Pedestrian	Other	Total
1997	53	25	23	7	0	0	0	0	2	0	3	113
1998	46	32	21	13	1	0	0	0	11	1	2	127
1999	41	18	13	12	5	0	0	0	6	1	3	99
2000	63	28	19	37	4	0	0	0	7	0	8	166
2001	43	16	19	19	3	0	0	0	8	1	11	120
2002	42	19	19	19	4	0	0	1	1	0	6	111
2003	36	24	15	27	3	0	0	0	15	1	1	122
2004	36	14	21	32	3	0	0	1	18	4	0	129
2005	34	15	28	23	6	0	0	2	8	2	2	120
2006	36	14	20	15	1	0	0	1	10	3	1	101
<b>TOTAL</b>	<b>430</b>	<b>205</b>	<b>198</b>	<b>204</b>	<b>30</b>	<b>0</b>	<b>0</b>	<b>5</b>	<b>86</b>	<b>13</b>	<b>37</b>	<b>1208</b>

Source: US DOT National Highway-Rail Crossing Inventory, November 2006

Source: US DOT FRA RAIRS Database, October 2007

Collision at Industrial Private Crossings by Roadway User, 1997-2006												
	Auto	Truck	Truck-trailer	Pick-up truck	Van	Bus	School bus	Motorcycle	Other motor	Pedestrian	Other	Total
1997	32	21	47	5	2	0	0	0	0	0	1	108
1998	21	27	55	11	2	0	0	0	3	0	1	120
1999	30	18	43	10	5	0	0	0	2	0	2	110
2000	27	25	51	14	4	0	0	0	7	0	0	128
2001	19	14	65	22	3	0	0	0	2	1	4	130
2002	20	26	55	13	4	1	0	0	7	0	4	130
2003	22	21	60	16	5	0	0	0	4	1	0	129
2004	20	29	64	21	8	0	0	0	4	0	0	146
2005	21	27	76	15	11	0	0	0	9	0	0	159
2006	16	13	75	12	9	0	0	0	6	1	1	133
<b>Total</b>	<b>228</b>	<b>221</b>	<b>591</b>	<b>139</b>	<b>53</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>44</b>	<b>3</b>	<b>13</b>	<b>1293</b>

Source: US DOT National Highway-Rail Crossing Inventory, November 2006

Source: US DOT FRA RAIRS Database, October 2007

Collision at Commercial Private Crossings by Roadway User, 1997-2006												
	Auto	Truck	Truck-trailer	Pick-up truck	Van	Bus	School bus	Motorcycle	Other motor	Pedestrian	Other	Total
1997	2	0	0	0	0	0	0	0	0	0	0	2
1998	0	1	0	0	0	0	0	0	0	0	0	1
1999	0	0	0	0	0	0	0	0	0	0	0	0
2000	0	1	0	0	0	0	0	0	0	0	0	1
2001	2	0	1	0	0	0	0	0	0	0	0	3
2002	2	0	1	0	0	0	0	0	0	0	0	3
2003	0	0	1	0	1	0	0	0	0	0	0	2
2004	1	1	0	1	0	0	0	0	0	0	0	3
2005	3	0	0	0	0	0	0	0	1	0	0	4
2006	1	0	0	1	0	0	0	0	0	0	0	2
<b>Total</b>	<b>11</b>	<b>3</b>	<b>3</b>	<b>2</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>21</b>

Source: US DOT National Highway-Rail Crossing Inventory, November 2006

Source: US DOT FRA RAIRS Database, October 2007

<b>Collision at Recreational Private Crossings by Roadway User, 1997-2006</b>												
	Auto	Truck	Truck-trailer	Pick-up truck	Van	Bus	School bus	Motorcycle	Other motor	Pedestrian	Other	Total
1997	4	0	1	0	0	0	0	0	0	0	1	6
1998	3	1	1	1	0	0	0	0	0	1	1	8
1999	1	0	1	3	0	0	0	0	0	0	0	5
2000	6	1	1	2	1	0	0	0	0	0	1	12
2001	2	2	1	0	0	0	0	0	0	1	1	7
2002	4	0	1	1	0	0	0	0	0	0	0	6
2003	4	1	1	1	1	0	0	0	0	0	0	8
2004	1	3	2	1	0	0	0	0	0	0	0	7
2005	2	0	2	2	1	0	0	0	0	0	0	7
2006	5	2	1	1	0	0	0	0	0	0	0	9
<b>Total</b>	<b>32</b>	<b>10</b>	<b>12</b>	<b>12</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>4</b>	<b>75</b>

Source: US DOT National Highway-Rail Crossing Inventory, November 2006

Source: US DOT FRA RAIRS Database, October 2007

<b>Collision at Residential Private Crossings by Roadway User, 1997-2006</b>												
	Auto	Truck	Truck-trailer	Pick-up truck	Van	Bus	School bus	Motorcycle	Other motor	Pedestrian	Other	Total
1997	15	10	5	4	1	0	0	0	0	0	1	36
1998	19	5	9	3	2	0	0	0	1	0	0	39
1999	23	10	2	3	1	0	0	0	2	1	0	42
2000	28	4	3	8	3	0	0	0	1	0	1	48
2001	26	7	7	8	1	0	0	0	1	1	3	54
2002	28	5	3	11	2	0	0	0	2	0	2	53
2003	23	4	5	10	0	0	0	0	5	1	0	48
2004	23	10	5	10	3	0	0	0	3	1	1	56
2005	26	8	15	18	1	0	0	0	1	0	0	69
2006	26	4	11	14	0	0	0	0	1	1	0	57
<b>Total</b>	<b>237</b>	<b>67</b>	<b>65</b>	<b>89</b>	<b>14</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>17</b>	<b>5</b>	<b>8</b>	<b>502</b>

Source: US DOT National Highway-Rail Crossing Inventory, November 2006

Source: US DOT FRA RAIRS Database, October 2007

<b>Average Collisions at Private Crossings by Roadway Users for year 1997-2006</b>						
<b>Roadway User</b>	<b>Collisions</b>		<b>Fatalities</b>		<b>Injuries</b>	
	<b>Count</b>	<b>Percent</b>	<b>Count</b>	<b>Percent</b>	<b>Count</b>	<b>Percent</b>
Auto	128	30.87	15.6	38.81	37.9	29.84
Truck-trailer	117.6	28.36	3.5	8.71	37.1	29.21
Truck	67.3	16.23	6.2	15.42	22.5	17.72
Pickup truck	56.6	13.65	8.9	22.14	18.1	14.25
Other motor vehicle	18.5	4.46	1.7	4.23	4.4	3.46
Van	14.4	3.47	1.1	2.74	5.1	4.02
Other (specify in narrative)	7.8	1.88	0.8	1.99	0.8	0.63
Pedestrian	3.2	0.77	2.3	5.72	0.7	0.55
Bus	0.6	0.14	0	0.00	0.2	0.16
Motorcycle	0.6	0.14	0.1	0.25	0.2	0.16
School bus	0.1	0.02	0	0.00	0	0.00
<b>Total</b>	<b>414.7</b>	<b>100.00</b>	<b>40.2</b>	<b>100.00</b>	<b>127</b>	<b>100.00</b>

Source: US DOT FRA RAIRS Database, October 2007

<b>Average Collisions at Public Crossings by Roadway Users for year 1997-2006</b>						
<b>Roadway User</b>	<b>Collisions</b>		<b>Fatalities</b>		<b>Injuries</b>	
	<b>Count</b>	<b>Percent</b>	<b>Count</b>	<b>Percent</b>	<b>Count</b>	<b>Percent</b>
Auto	1467.4	51.16	157.5	44.59	515.3	49.60
Truck	302.8	10.56	33.4	9.46	121.3	11.68
Truck-trailer	349.3	12.18	14.4	4.08	120.2	11.57
Pickup truck	422	14.71	55.4	15.69	155.6	14.98
Van	114	3.97	20.2	5.72	46.5	4.48
Bus	4.9	0.17	0	0.00	2.3	0.22
School bus	2.2	0.08	0.6	0.17	5.5	0.53
Motorcycle	8.6	0.30	2	0.57	3.4	0.33
Other motor vehicle	69	2.41	9.6	2.72	24.5	2.36
Pedestrian	88.3	3.08	50.6	14.33	31.2	3.00
Other (specify in narrative)	40	1.39	9.5	2.69	13.1	1.26
<b>Total</b>	<b>2868.5</b>	<b>100.00</b>	<b>353.2</b>	<b>100.00</b>	<b>1038.9</b>	<b>100.00</b>

Source: US DOT FRA RAIRS Database, October 2007

Year	Truck	Pickup truck	Auto	Truck-trailer	Total
1997	92	30	185	118	425
1998	88	46	133	117	384
1999	65	47	142	104	358
2000	79	72	165	112	428
2001	57	59	114	112	342
2002	59	54	116	102	331
2003	59	58	104	102	323
2004	68	80	98	121	367
2005	56	62	107	142	367
2006	50	58	116	146	370
<b>Total</b>	<b>673</b>	<b>566</b>	<b>1280</b>	<b>1176</b>	<b>3695</b>

Source: US DOT FRA RAIRS Database, October 2007



# **Appendix A.10**

## **Contact Database**

Identifier	Last Name	First Name	Company Name	Industry	Address	City	State/Province	Postal Code
1			GA- Chatham Urban Transportation Study	MPO	110 East State Street	Savannah	GA	31412-
2			Carson City MPO	MPO	3303 Butte Way	Carson City	NV	89701-
3			Ohio Steel Association	Steel				
4			Associated General Contractors of America	Construction	2300 Wilson Boulevard, Suite 400	Arlington	VA	22201-
5			Association of Construction Inspectors	Construction	1224 North Nokomis NE	Alexandria	VA	56308-
6			Baltimore Chemical Association	Chemical	928 Whispering Ridge Lane	Bel Air	MD	21015-
7			Synthetic Organic Chemical Manufacturers Association	Chemical	1850 W St NW, Suite 100	Washington	DC	20038-8810
8			American Chemical Society	Chemical	1155 16th St, NW	Washington	DC	20036-
9			Chemical Industries Association	Chemical	Kings Buildings	Smith Square	London	
10			Louisiana Chemical Association	Chemical	One American Place, Suite 2040	Baton Rouge	LA	70825-
11			Illinois Fertilizer and Chemical Association	Chemical	1201 East Ball St., PO Box 1326	Bloomington	IL	61701-1326
12			National Association of Chemical Distributors	Chemical	1560 Wilson Blvd., Suite 1250	Arlington	VA	22209-
13			Southwest Chemical Association	Chemical		Houston	TX	77001-
14			Canadian Chemical Producers Association	Chemical	350 Sparks St, Suite 805	Ottawa	ON	
15			Chemical Manufacturers Association	Chemical	ACC&CE PO Box 297	Sparta	NJ	07871-
16			Association of Chemical Consultants and Chem-Es	Chemical	The CICA Honorary Secretary, 12, Oughton Close	Yarm		
17			Chemical and Industrial Consultants Association	Chemical	2317 International Lane, Suite 102	Madison	WI	53704-3154
18			Wisconsin Fertilizer and Chemical Association	Chemical	1960 West #348	Huston	TX	77069-
19			Huston Chemical Association	Chemical	1300 Wilson Blvd.	Arlington	VA	22209-
20			American Chemistry Council	Chemical	1300 Wilson Blvd.	Arlington	VA	22209-
21			Chlorine Institute, Inc.	Chemical	820 First St N.E., Suite 430	Washington	DC	20002-
22			Fertilizer Institute	Chemical	10231 Telegraph Road	Glen Allen	VA	23059-4578
23			Virginia Association of Realtors	Realtor	1201 Greenwood Cliff	Charlotte	NC	28204-
24			Charlotte Regional Realtor Association	Realtor	50 Airpark Ct.	Greenville	SC	29607-
25			Greater Greenville Association of Realtors	Realtor	180 W. Professional Park Court	Bowling Green	KY	42104-
26			Realtors Association of Bowling Green	Realtor	3180 Adkiff Lane, Suite 400	Springfield	IL	62703-
27			Illinois Association of Realtors	Realtor	2115 Rolling Green Lane	North Mankato	MN	56003-
28			Realtor Association of Southern Minnesota	Realtor	4205 Minnesota Dr.	Anchorage	AK	99503-
29			Alaska Association of Realtors	Realtor	423 48th St	Richmond	CA	94805-2301
30			West Contra Costa Association of Realtors	Realtor	2710 Campbell St.	Sandusky	OH	44870-
31			Firelands Association of Realtors	Realtor	1020 Seventh North St., Suite 140	Liverpool	NY	13088-
32			Greater Syracuse Association of Realtors	Realtor	2139 Centennial Plaza	Eugene	OR	97401-
33			Eugene Association of Realtors	Realtor	200 South Michigan Ave., Suite 400	Chicago	IL	60604-
34			Chicago Association of Realtors	Realtor	145 South 56th St., Suite 100	Lincoln	NE	68510-2150
35			Nebraska Realtors Association	Realtor	Showers Center City Hall, Suite 160	Bloomington	IN	47404-
36	Nierzwicki	Frank	IN- Bloomington Area Transportation Study	MPO	401 North Morton Street	Bloomington	IN	47404-
37	Ackermans	Faye	Canadian Pacific Railway - AAR	MPO	401 9th Avenue, SW., Suite 2000	Alberta	Calgary	T2P 4Z4
38	Adair	Richard	Richland County Regional Planning Commission	MPO	35 North Park Street, Suite 230	Mansfield	OH	44902-
39	Aguilar	Jay	Cache MPO	MPO	North Main Street, Room 305	Logan	UT	84321-
40	Ahiet	Glen	FL- Lee County MPO	MPO	4980 Bayline Drive, 4th Floor	North Fort Myers	FL	33918-
41	Ahrendsen	Mark	Durham-Chapel Hill-Carrboro MPO	MPO	101 City Hall Plaza, 4th Floor	Durham	NC	27701-
42	Albring	William	Kingsport MPO	MPO	228 West Center Street	Kingsport	TN	37680-
43	Allen	Robert	Abilene MPO	MPO	555 Walnut Street	Abilene	TX	79604-
44	Althof	John	Montana Department of Transportation	MPO	2701 Prospect Avenue, P.O. Box 201001	Helena	MT	59620-1001
45	Ameen	Patrick T.	AAR	MPO	50 F Street NW	Washington	DC	20001
46	Anderson	Eric	AZ- Maricopa Association of Governments	MPO	302 North 1st Avenue, Suite 300	Phoenix	AZ	85003-
47	Anderson	Janet	Erie MPO	MPO	Erie County Courthouse, Room 119	Erie	PA	16501-
48	Anderson	Bill	Tennessee Dept. of Transportation	MPO	140 West 6th Street	Nashville	TN	37243-
49	Arch	Robert	MD - Hagerstown-Eastern Panhandle MPO	MPO	James K. Park Building, Suite 400	Hagerstown	MD	21740-
50	Armstrong	James	AK- Anchorage Met. Area Trans. Solutions	MPO	County Administrative Annex 80 West Baltimore Street	Anchorage	AK	99507-
51	Ashburn	Ron	Iron and Steel Society (AIST)	Steel	4700 South Bragaw	Warrendale	PA	15086-
52	Akinson	Michael	Canadian Construction Association (CCA)	Construction	186 Thorn Hill Road	Ottawa	ON	K1P 5E7
53	Aulick	Michael	Capital Area MPO	MPO	75 Albert Street, Suite 400	Austin	TX	78701-
54	Zull	Adam	IL- Danville Area Transportation Study	MPO	1101 Sam Jacobs, 2nd Floor	Danville	IL	60606-
55	Avery	Dan	IN- Northeastern Indiana Regional Council	MPO	17 West Main Street	Danville	IL	60606-
56	Ayer	Lucie	FL- Hillsborough County MPO	MPO	City-County Building, Room 630	Ft. Wayne	IN	46802-1804
57	Baechold	Dan	French Broad River MPO	MPO	County Center Building, 18th Floor 601 East Kennedy Boulevard 70 Court Plaza, Mezzanine	Tampa	FL	33601-
				MPO		Asheville	NC	28801-



Identifier	Last Name	First Name	Company Name	Industry	Address	City	State/Province	Postal Code
58	Bailey	Ronald	Lancaster County Transportation Coordinating Commi	MPO	New Courthouse, 6th Floor	Lancaster	PA	17608-3480
59	Baker	Tim	Colorado Dept. of Transportation	US DOT HIGHWAY-RAIL	50 North Duke Street	Denver	CO	80222-
60	Baker	Chuck	National Railroad Construction & Maintenance Association		122 C Street NW	Washington	DC	
61	Baldwin	Ira	Public Service Commission of West Virginia		201 Brooks Street	Charleston	WV	25301
62	Ball	Charles	AL Gadsden-Etowah MPO	MPO	90 Broad St. (City Hall, c/o City of Gadsden)	Gadsden	AL	35901-
63	Ballinger	Forrest	GE Transportation Systems	AHB60 MEMBER	P.O. Box 600	Grain Valley	MO	64029-
64	Balister	Ron	Kansas Dept. of Transportation	US DOT HIGHWAY-RAIL	Docking State Office Bldg., Room 830	Topoka	KS	66612-
65	Barley	Harold	FL-METROPLAN Orlando	MPO	315 East Robinson Street, Suite 355	Orlando	FL	32801-
66	Barrett	Bruce	FL- Tallahassee - Leon County MPO	MPO	City Hall, 4th Floor	Tallahassee	FL	32301-
67	Bassett	Bruce	Steel Erectors Association of America	Steel	300 South Adams Street	Greensboro	NC	27407-
68	Bayou	Ronald L.	Conrail		2216 W. Meadowview Rd.	Mount Laurel	NJ	8064
69	Becker	Scott	Association of Railway Museums		1000 Howard Boulevard	Washington	PA	15301
70	Beigay	Bradford	Camden County MPO	MPO	One Museum Road	Ebensburg	PA	15931-
71	Beleoin	David	Haiting-San Benito MPO	MPO	502 East Tyler Street	Hartings	TX	78550-
72	Bernard	R. A. (Bob)	CSX Transportation - AAR	MPO	500 Water St.	Jacksonville	FL	32202
73	Berrada	Sam	Canadian National - AAR	MPO	935 de la Gauchetiere St West-15th Floor	Montreal	Quebec	H3B 2M9
74	Bigham	Robert	Lawton MPO	MPO	103 SW 4th Street	Lawton	OK	73501-4078
75	Bishop	Rachrd	GA- Columbus Annex Center	MPO	Columbus Annex Center	Columbus	GA	31902-
76	Black	George	National Transportation Safety Board	AHB60 MEMBER	420 10th Street	Washington	DC	20594-
77	Blair	Jerry	MO - East-West Gateway Coordinating Council	MPO	480 L'Enfant Plaza East, SW	St. Louis	MO	63102-1714
78	Blanshan	Kevin	IA- Black Hawk Metro Area Trans. Policy Board	MPO	10 Stadium Plaza	Waterloo	IA	50703-
79	Blindum	Unik	Niels Juels Gade 13	AHB60 MEMBER	PO Box 9018	Copenhagen K	Denmark	
80	Bloom	Harvey S.	MD - Baltimore Regional Transportation Board	MPO	2700 Lighthouse Point East, Suite 310	Baltimore	MD	21224-4774
81	Bodeman	Dan	BNSF		2600 Lou Menk Drive	Fort Worth	TX	76161
82	Borne	Bill	International Brotherhood of Electrical Workers - IBEW		800 7th Street, NW	Washington	DC	20001
83	Boice	James	Connecticut Dept. of Transportation	US DOT HIGHWAY-RAIL	P.O. Box 317546	Newing	CT	06131-
84	Bolton	Bernadette	Brotherhood of Maintenance of Way Employees		10 G Street, NW	Washington	DC	20002
85	Bosley	Molly	Killeen-Temple Urban Transportation Study	MPO	550 East 2nd Avenue	Bellton	TX	76513-
86	Bosmelos	Michelle	Janesville Area MPO	MPO	Municipal Building, 3rd Floor	Janesville	WI	53545-
87	Boucher	Anita	Nevada Dept. of Transportation	US DOT HIGHWAY-RAIL	18 North Jackson Street	Carson City	NV	89792-
88	Bovee	Daniene	Iowa Dept. of Transportation	US DOT HIGHWAY-RAIL	1263 South Stewart Street	Ames	IA	50010-
89	Bowgren	Michael	International Brotherhood of Electrical Workers - IBEW		800 Lincoln Way	Washington	DC	20001
90	Bowman	Clair	ID- Comm. Planning Assc. of Southwestern Idaho	MPO	800 South Industry Way, Suite 100	Meridian	ID	83642-
91	Bowman	Brian	Auburn University	AHB60 MEMBER	236 Harbert Engineering Center	Auburn	AL	36849-
92	Bragdon	David	Metro	MPO	600 NE Grand Avenue	Portland	OR	97232-2736
93	Brawley	Eddie	AR- West Memphis Area Trans. Study	MPO	796 West Broadway	West Memphis	AR	72301-
94	Brewin	Nicole	Railway Supply Institute	50 F Street, N.W. Suite 7030	Washington, DC 20001	Washington	DC	20001
95	Bridges	Jerrald	IN- Madison County COG	MPO	16 East 9th Street, Room 100	Anderson	IN	46016-
96	Browell	Alan	Johnson City Metropolitan Transportation P.O.	MPO	137 West Market Street	Johnson City	TN	37604-
97	Brienza	Michael	Lincoln MPO	MPO	531 Westgate Boulevard, Suite 100	Lincoln	NE	68528-
98	Briens	Ken	Parsons		1133 15th Street, NW, Suite 800	Washington	DC	20006
99	Bright	Robert	Fargo-Morehead Metropolitan COG	MPO	Case Plaza, Suite 232	Fargo	ND	58102-
100	Brocks	Walter R.	LA - Regional Planning Commission	MPO	1 North 2nd Street	New Orleans	LA	70112-5276
101	Browder	Bill	AAR		Amoco Building, Suite 2100, 1340 Poydras Street	Washington	DC	20001
102	Bruback	Greg	Corpus Christi MPO	MPO	3151 Flynn Parkway, Suite 404	Corpus Christi	TX	78411-
103	Brummett	Ronald	CA- Kern COG	MPO	1401 15th Street, Suite 300	Bakersfield	CA	93301-
104	Brunkerhoefer, J	James M.	United Transportation Union	MPO	304 Pennsylvania Avenue, SE	Washington	DC	20003
105	Bryan	Jerry	FL- Martin County MPO	MPO	Martin County Administrative Center 2401 SE Monterey Road	Stuart	FL	34996-
106	Bubb	Donald	York Area MPO	MPO	York County Government Center	York	PA	17401-
107	Buraf	Denise	IL-BI-State Regional Commission	MPO	100 West Market Street	Rock Island	IL	61204-
108	Burnsworth	Denise	FL- First Coast MPO	MPO	128 East Forsyth Street, Suite 304	Jacksonville	FL	32202-
109	Burges Sicking	Tarri	KY- FIVCO Area Development District	MPO	3000 Louise Street	Cattlettsburg	KY	41129-
110	Burk	J. Dan	Blacksburg-Christiansburg-Montgomery Area MPO	MPO	755 Roanoke Street	Christiansburg	VA	24073-3181
111	Burket	Wesley	Blair County Planning Commission	MPO	301 Valley View Boulevard, East Wing	Altoona	PA	16602-5409
112	Buss	Mike	Florida East Coast Rwy.	MPO	One Malaga Street	St. Augustine	FL	32085

Identifier	Last Name	First Name	Company Name	Industry	Address	City	State/Province	Postal Code
113	Builer	James	CT - Southeastern Connecticut COG	MPO	5 Connecticut Avenue	Norwich	CT	06360-4592
114	Buxton	Robin	IBEW	MPO	25 Woodard Circle	East Ridge	TN	37412
115	Byington	Mori	ID- Banrock Planning Organization	MPO	214 East Center	Pocahontas	ID	83205-
116	Byrne	Angie	AR- Hot Springs Area MPO	MPO	P. O. Box 700	Hot Springs	AR	71902-
117	Byrne	Terry	URS	AHBB60 MEMBER	38 Chauncy Street	Boston	MA	02111-
118	Campbell	David	Delaware Transit Corporation	US DOT HIGHWAY-RAIL	400 South Madison Street	Wilmington	DE	19801-
119	Carnito	Felzer A.	MTA Metro-North Railroad		347 Madison Avenue	New York	NY	10017
120	Carson	Ross	National Association of Railroad Passengers		900 Second St., NE	Washington	DC	20002
121	Carpenter	David	Las Cruces MPO	MPO	City Office Center 575 South Alameda Blvd.	Las Cruces	NM	88005-
122	Carroll	Anthony	Volpe Center	AHBB60 MEMBER	55 Broadway	Cambridge	MA	02142-1093
123	Cassteel	St. Vitaldas	Cleveland Area MPO	MPO	185 Second Street, NE, Suite 1	Cleveland	TN	37311-
124	Chambers	Ray	Indian Chemical Manufacturers Association	Chemical	16 Mumbai Samachar Marg	Mumbai	IN	40002-3
125	Chambers	Chuck	National Railroad Construction & Maintenance Association	MPO	122 C Street, NW	Washington	DC	20001
126	Chappell	Donnie	Wasatch Front Regional Council	MPO	295 North Jimmy Doolittle Road	Salt Lake City	UT	84116-
127	Chelmin	Donnie	Goldsoho Urban Area MPO	MPO	City Hall Annex 222 North Center Street	Goldsoho	NC	27150-
128	Chellus	Timothy	South Jersey Transportation Planning Organization	MPO	782 S. Brewster Road, Unit B-6	Vineland	NJ	08361-
129	Chew	Jonathan	CT- Housatonic Valley Council of Elected Officials	MPO	Old Town Hall Route 25 and 133	Brookfield	CT	06804-
130	Chicka	Ron	MN - Duluth-Superior Metro Interstate Committee	MPO	221 West 1st Street	Duluth	MN	55802-
131	Chinn	Bruce	Missouri Dept. of Transportation	US DOT HIGHWAY-RAIL	P. O. Box 1216	Jefferson City	MO	65102-
132	Church	David	Newburgh-Orange County Transportation Council	MPO	1887 County Building 124 Main Street	Goshen	NY	10924-
133	Ciarrella	Pasquale	MA - Old Colony MPO	MPO	70 School Street	Brockton	MA	02301-4097
134	Clark	Jon	CA- Butte County Association of Governments	MPO	965 Fir Street	Chico	CA	95928-
135	Clark	Alan	Houston-Galveston Area Council	MPO	3555 Timmons, Suite 120	Houston	TX	77027-
136	Clarkson	James	Transportation Security Administration	MPO	601 South 12th Street	Arlington	VA	22202
137	Claytor	Preston	Rail America, Inc. - AAR	MPO	5300 Broken Sound Blvd., N.W.	Boca Raton	FL	33487
138	Clements	Andrew	MO - St. Joseph Area Trans Study Organization	MPO	1100 Frederick Avenue, Room 204	St. Joseph	MO	64501-
139	Colegrove	Geoffrey	CT- Midstate Regional Planning Agency	MPO	100 DeKoven Drive	Middletown	CT	06457-
140	Conard	Richard	Massachusetts Highway Department	US DOT HIGHWAY-RAIL	10 Park Plaza, Room 6340	Boston	MA	02116-
141	Conley	Yvette			1686 K Street, NW	Washington	DC	20006
142	Conyers	Max	KY - Lexington Area MPO	MPO	Government Center, 10th Floor	Lexington	KY	40507-
143	Cook	Chapin W.	MI - Genesee County Metro Planning Commission	MPO	200 East Main Street	Flint	MI	48502-
144	Cook	Robert	Mecklenburg-Union MPO	MPO	1101 Beach Street, Room 223	Charlotte	NC	28202-
145	Cooper	Eli	Puget Sound Regional Council	MPO	600 East Fourth Street	Seattle	WA	98104-
146	Copeland	Cynthia	Seacoast MPO	MPO	1011 Western Avenue, Suite 500	Dover	NH	03820-
147	Corrahn Jr.	Andrew P.	Norfolk Southern Corporation - AAR		3 Commercial Place	Norfolk	VA	23510
148	Covey	Becky	Ohio Steel Association	Steel	P.O. Box 368	Columbus	Ohio	43216-0389
149	Cox	Robert	Midland-Odesa MPO	MPO	2910 LaForce Blvd	Midland	TX	79711-
150	Craig	Don	ME - Androscoggin Transportation Resource Center	MPO	125 Manley Road	Auburn	ME	04210-
151	Craig	Michelle	KYOVA Interstate Planning Commission	MPO	1221 8th Avenue	Huntington	WV	25701-
152	Cronk	Lay R.	International Association of Machinists and Aerospace Workers		9000 Machinists Place	Upper Meriboro	MD	20772
153	Croome	Jim	Construction Suppliers' Association	Construction	Sandersville Builders Supply P.O. Box 1116	Sandersville	GA	31082-
154	Crutz	Ric	North Carolina Dept. of Transportation	US DOT HIGHWAY-RAIL	P.O. Box 25201	Raleigh	NC	27611-
155	Cunningham	James	CHR		Gulf Canada Square	Calgary	AB	T2P 4Z4
156	Curtis	James	AL- Calhoun Area MPO	MPO	1130 Quintard Ave., Quintard Tower, Suite 300	Anniston	AL	36201-
157	Dalton	Leah	Ohio Public Utilities Commission	US DOT HIGHWAY-RAIL	Highway-Rail Crossing Inventory	Columbus	OH	43215-
158	D'Annato	Jim	Spartanburg Area Transportation Study	MPO	366 North Church Street	Spartanburg	SC	29303-
159	Daniczek	Thomas A.	Steel Manufacturers Association	Steel	1150 Connecticut Avenue, NW, Suite 715	Washington	D.C.	20036-
160	Daridson	Cliff	CO- North Front Range MPO	MPO	265 Matthews Street	Fort Collins	CO	80524-
161	Daridson	Jeff	IA- Johnson County COG	MPO	410 East Washington Street	Iowa City	IA	52240-
162	Davis	Roger	Licking County Area Transportation Study	MPO	20 South 2nd Street	Newark	OH	43056-
163	Day	Sandeeo	MI - Western Michigan Shoreline Regional Dev. Comm	MPO	316 Morris Avenue, Suite 340	Muskegon	MI	49443-
164	de Aragon	Fernando	Ithaca-Tompkins County Transportation Council	MPO	121 East Court Street	Ithaca	NY	14850-
165	Deardorff	Thomas	FL- Polk Trans. Planning Organization	MPO	330 West Church Street	Barrow	FL	33830-
166	Deating	Mike	IN- Indianapolis MPO	MPO	200 East Washington Street, Suite 1841	Indianapolis	IN	46204-
167	DeCarli	Ronald	CA- San Luis Obispo COG	MPO	200 East Washington Street, Suite 202	San Luis Obispo	CA	93401-
168	DeGryler	Lisa	Construction Owners Association of America	Construction	2727 Paces Ferry Road	Atlanta	GA	30339-
169	DePaape	Tim	Brotherhood of Railway Signalmen	AHBB60 MEMBER	9175 Shenandoah Shores Road	Front Royal	VA	22630-
170	DePaape	Timothy J.	Brotherhood of Railroad Signalmen	MPO	917 Shenandoah Shores Road	Front Royal	VA	22630
171	DesGroselliers	Rich	Lakeway MPO	MPO	100 West 1st North Street	Morristown	TN	37814-
172	DeVenter, II	Paul L	AAPRCO		12114 Taylorcrest St.	Houston	TX	77024
173	Devine	Steve	Rhode Island Dept. of Transportation	US DOT HIGHWAY-RAIL	2 Capital Hill, Room 231D	Providence	RI	02903-

Identifier	Last Name	First Name	Company Name	Industry	Address	City	State/Province	Postal Code
174	Dewhurst	Philp	Nuclear Industry Association (UK)	Nuclear	Carlton House 22a St James's Square	London	England	SW1Y 4JH
175	Diaz	Nacho	MIN - Metropolitan Council	MPO	Mears Park Center 230 East 5th Street	St. Paul	MIN	55101-
176	Dickson	Bob	South East Texas Regional Planning Commish MPO	MPO	2210 Earleex Freeway	Beaumont	TX	77703-
177	Dickson	Gary	CA- Stanislaus COG	MPO	900 H Street, Suite D	Modesto	CA	95354-
178	Dimit	John	IL- Champaign-Urbana Urban Area Trans. Study	MPO	1776 East Washington Street	Urbana	IL	61803-
179	Dix	Dennise	FL- Hernando County MPO	MPO	20 North Main Street, Room 262	Brooksville	FL	34601-
180	Dorapala	Faler	CT- Council of Gov of the Central Naugatuck Valley	MPO	20 East Main Street, Suite 303	Waterbury	CT	06702-2389
181	Dowd	Robert	Danville MPO	MPO	1 Stirling Avenue	Martinsville	VA	24112-
182	Dowell	Michael	Florida Department of Transportation	US DOT HIGHWAY-RAIL	605 Suwannee Street, MS-25	Tallahassee	FL	32398-0450
183	Drake	John	CSX Transportation - AAR	MPO	500 Water Street - JZ60	Jacksonville	FL	32202
184	Drouin	Gary	Transport Canada	AH-B60 MEMBER	Place de Ville	Ottawa	Ontario	K1A 0N5
185	Duane	James	Ohio-Kentucky-Indiana Regional COG	MPO	720 East Pete Rose Way, Suite 420	Cincinnati	OH	45202-
186	Duffy	Dennis	Union Pacific Railroad - AAR	MPO	1416 Dodge Street, Rm 1206	Omaha	NE	68179
187	Duncan	John	ME - Portland Area Comprehensive Trans Committee	MPO	233 Oxford Street	Portland	ME	04101-
188	Durst	Randy	Wood-Washington-Wirt Interstate Planning Commish	MPO	531 Market Street	Parkersburg	WV	26101-
189	Dyarsd	David	Toledo Metropolitan Area COG	MPO	300 Dr. Martin Luther King, Jr. Drive	Toledo	OH	43602-
190	Edmond	Richard	National Conference of Firemen an Oilers	MPO	972 Norburne Ave	Vinton	VA	24179
191	Edmonds	Rhonda	Charlottesville-Albemarle MPO	MPO	300 East Main Street, 1st Floor	Charlottesville	VA	22902-
192	Edwards	Billy	GA- Hinesville MPO	MPO	115 East Martin Luther King, Jr. Drive	Hinesville	GA	31313-
193	Edwards	Jim	Rock Hill/Fort Mill Area Transportation Study	MPO	155 Johnston Street	Rock Hill	SC	29731-1706
194	Edwards	Steve	Mississippi Dept. of Transportation	US DOT HIGHWAY-RAIL	P.O. Box 1850	Jackson	MS	39215-
195	Egehall	John	MI - Southwestern Michigan Commission MPC	MPO	185 East Main Street, Suite 701	Benton Harbor	MI	49022-
196	Eich	Austin	Southeastern COG	MPO	1000 NW Avenue Suite 210	Sioux Falls	SD	57104-
197	Eigen	Richard	CT- Valley COG	MPO	Derby Railroad Station 12 Main Street	Derby	CT	06418-
198	Elisele	Donald	New Jersey Transit	AH-B60 MEMBER	One Penn Plaza East	Newark	NJ	07105-2246
199	Elkin	Robin	Santa Fe MPO	MPO	200 Lincoln Avenue	Santa Fe	NM	87504-
200	Elliott	Diane	American Association of Private Railroad Car Owners	MPO	630B Constitution Avenue, NE	Washington	DC	20002
201	Elliott	David J.	LTk Engineering Services	MPO	317 Madison Ave.	Washington	DC	20002
202	Elmer	Lowell	Canadian Nuclear Association	MPO	P.O. Box 1350	New York	NY	10017
203	Eiston	Murray	IL- Rockford Area Transportation Study	MPO	130 Albert Street, Suite 1610	St. George	UT	84771-
204	Ernst	Steven	IL- Rockford Area Transportation Study	MPO	425 East State Street	Ottawa	Ontario	K1P 5G4
205	Errett	Gregory	Winston-Salem Urban Area MPO	MPO	City Hall South, Room 307	Winston-Salem	NC	27102-
206	Evans	Adam	AL- Auburn - Opelika MPO	MPO	2207 Gateway Drive	Opelika	AL	36801-6834
207	Evenson	Philip	Southeastern Wisconsin Regional Planning Commish	MPO	West 235 North 1812 Rockwood Drive	Waukesha	WI	53188-
208	Faella	Tom	La Crosse Area Planning Committee	MPO	400 4th St. North	La Crosse	WI	54601-
209	Fanning	Dallas	AL- Huntsville Area Transportation Study	MPO	308 Fountain Circle	Huntsville	AL	35801-
210	Fanner	Dwight	Hampton Roads MPO	MPO	The Regional Building	Chesapeake	VA	23320-
211	Fast	Melba	MO - Capital Area MPO	MPO	723 Woodlake Drive	Jefferson	MO	65101-
212	Fawver	Gary	Pennsylvania Dept. of Transportation	US DOT HIGHWAY-RAIL	400 North Street, 7th Floor	Harrisburg	PA	17120-
213	Fellon	Mark	BCKP Regional Intergovernmental Council	MPO	315 D Street	South Charleston	WV	25303-
214	Filipovic	Mark	International Association of Machinists and Aerospace Workers	MPO	9000 Machinists Place	Upper Marlboro	MD	20772
215	Finger	Linda	KS- Lawrence-Douglas County Metro Planning Office	MPO	City Hall, 1st Floor	Lawrence	KS	66044-
216	Fink	Fred	Transport Workers Union of America, AFL-CIO	MPO	5390 Karen Isle	Willoughby	OH	44094
217	Fimey	George	CA- Tulare County Association of Governments	MPO	5961 South Mooney Boulevard	Visalia	CA	93277-
218	Fisher	Tom	CO- Grand Junction / Mesa County MPO	MPO	750 Main Street	Grand Junction	CO	81501-
219	Fisk	James	Kansas City Southern Railway - AAR	MPO	114 West 12th Street	Kansas City	MO	64105
220	Fitzgerald	Cheri	FL- St. Lucie MPO	MPO	2300 Virginia Avenue, Room 203	Fort Pierce	FL	34982-
221	Fitzpatrick	Gary	Florida Department of Transportation	US DOT HIGHWAY-RAIL	605 Suwannee Street, MS-25	Tallahassee	FL	32398-0450
222	Flagg	Diane	FL- Collier County MPO	MPO	2685 South Horseshoe Drive	Naples	FL	34104-
223	Fleck	John	MO - Columbia Area Trans. Study Organization	MPO	701 East Broadway	Columbia	MO	65205-
224	Fontonot	Abe	LA - Imperial Calcasieu Regional Planning & Dev. C	MPO	Lake Charles City Hall, 4th Floor 326 Pujol Street	Lake Charles	LA	70602-
225	Forbes	F. James	Greenville Area Transportation Study	MPO	301 University Ridge, Suite 40C	Greenville	SC	29601-
226	Fossett	Richard	State of Delaware, DOT	US DOT HIGHWAY-RAIL	PO Box 178	Dover	DE	19903-
227	Fountain	Jesse	GA- Warner Robins Area Transportation Study	MPO	700 Watson Boulevard	Warner Robins	GA	31099-
228	Fraga	Robert	Construction Management Association of America	Construction	7918 Jones Branch Drive, Ste. 540	McLean	VA	22102-
229	Freley	Charles	Sheet Metal Workers International Association	Construction	3512 E. Lydius Street	Guilford	NY	12303
230	Friedman	C. Marshall	C. Marshall Friedman, P.C. - TCUBRC	Construction	1010 Market Street	St. Louis	MO	63101
231	Garland	Dewey	Sheet Metal Workers International Association	Construction	1750 New York Ave, NW	Washington	DC	20006

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232	Gates	Danny	Brotherhood of Maintenance of Way Employees		10 G St. NE, Suite 460	Washington	DC	20006
233	Gayle	Steven	Binghamton Metropolitan Transportation Study	MPO	Broome County Office Building, 5th Floor 44 Hawley Street	Binghamton	NY	13902-
234	Gelerman	John	Minnesota Department of Transportation	US DOT HIGHWAY-RAIL	395 John Ireland Blvd.	St. Paul	MN	55155-
235	Getchey	Tom	Eastgate Regional COG	MPO	5121 Mahoning Avenue	Austintown	OH	44515-
236	Ghirardi	Kevin	LA - Houma-Thibodaux MPO	MPO	5058 West Main Street	Houma	LA	70360-
237	Gibson	David	Arizona Department of Transportation	US DOT HIGHWAY-RAIL	1739 W. Jackson St. 064R	Phoenix	AZ	85250-
238	Gibson	Gary	Indiana Harbor Belt Railway		2721 161st Street	Hammond	IN	46323
239	Gilbert	Darien	California Public Utilities Commission	US DOT HIGHWAY-RAIL	515 "L" Street, Suite 1119	Sacramento	CA	95814-
240	Gilbert	Danny	Rail Safety Consultants	AHB60 MEMBER	1820 Dorset Drive	Renoike	VA	24018-
241	Gilyard	Roy	El Paso MPO	MPO	10767 Gateway Boulevard West, Suite 605	El Paso	TX	79935-
242	Gleason	Steve	Genesee Transportation Council	MPO	CityPlace, Suite 8112	Rochester	NY	14614-1227
243	Gonzales	Henry	New Mexico Dept. of Transportation	US DOT HIGHWAY-RAIL	P.O. Box 1149, San Mateo Plaza, 1st Floor	Santa Fe	NM	87504-1149
244	Goodwin	Barbara	CA- Council of Fresno County Governments	MPO	2100 Tulane Street, Suite 619	Fresno	CA	93721-
245	Gott	Judy	CT- South Central Regional COG	MPO	127 Washington Avenue, 4th Floor West	North Haven	CT	06473-
246	Grady	James	Conrail (AAR)		1000 Howard Blvd.	Mt. Laurel	NJ	8064
247	Graham	James (Hank)	Gaston Urban Area MPO	MPO	181 South Street	Gastonia	NC	28052-
248	Gray	Carter	Memphis Urban Area MPO	MPO	1075 Mullins Station Rd.	Memphis	TN	38134-
249	Greene	Julia	CA- San Joaquin COG	MPO	NVA Wing, 1st floor	Stockton	CA	95202-2804
250	Griffin	Brad	GA- Madison-Athens Clarke Oconee Reg Trans Study	MPO	6 South El Dorado Street, Suite 400	Athen	GA	30601-
251	Grimalia	Robert M.	Union Pacific Railroad		1400 Douglas Street	Omaha	NE	68179
252	Gross	Bill	American Public Transportation Association	AHB60 MEMBER	1666 K Street NW	Washington	DC	20006-
253	Gross	John	AZ- Yuma MPO	MPO	502 South Orange Avenue	Yuma	AZ	85364-
254	Groves	Kenneth	AL- Montgomery Area MPO	MPO	103 North Perry Street, Room 121-O	Montgomery	AL	36104-
255	Grymski	Andy	High Point Urban Area MPO	MPO	211 South Hamilton St., Room 210	High Point	NC	27281-
256	Gulfain	Pam	The Fertilizer Institute		820 First Street, N.E., Suite 430	Washington	DC	20002
257	Gulnder	Ralf	World Nuclear Association	Nuclear	Carlton House, 22a St. James's Square, London SW1Y 4JH	London		
258	Gumula	Mark	FL- Charlotte County - Punta Gorda MPO	MPO	2800 Airport Road, A-6	Punta Gorda	FL	33982-4009
259	Guthrie	John	AR- Bi-State MPO	MPO	1109 South 16th Street	Fort Smith	AR	72901-
260	Guy	Michael	FL- Sarasota-Manatee MPO	MPO	7632 15th Street East	Sarasota	FL	34243-3248
261	Hais	D. M.	Brotherhood of Locomotive Engineers		1370 Ontario Street	Cleveland	OH	44113
262	Hall	Gerrit	Operation Lifesaver, Inc		1420 King Street	Alexandria	VA	22314-
263	Halstead	Lori	Washington Utilities & Transportation Comm.		P.O. Box 47250	Olympia	WA	98504-
264	Hambley	Jim	Navy Nuclear Weapons Association	Nuclear				
265	Hamilton	Paul	MI - Tri-County Regional Planning Commission	MPO	Southwind Office Building, Suite 201 913 West Holmes Road	Lansing	MI	48910-
266	Hammer	Ed	Marathon County Metropolitan Planning Commission	MPO	210 River Drive	Wausau	WI	54403-
267	Hansen	William G.	MN - St. Cloud Area Planning Organization	MPO	1040 County Road 4	St. Cloud	MN	56303-0643
268	Hanson	Kenneth	Akron Metropolitan Area Transportation Study	MPO	146 South High Street, Room 806, Ciltcenter	Akron	OH	44308-1423
269	Hardy	Clarence	Australian Nuclear Association	Nuclear	P.O. Box 85, Peakhurst, NSW Australia, 2210	Peakhurst	NSW	
270	Harkrader	Bob	Burlington-Graham MPO	MPO	425 S. Lexington Avenue	Burlington	NC	27215-
271	Harpole	Keith	KY- Green River Area Development District	MPO	3680 U.S. Hwy 60 West	Owensboro	KY	42301-0200
272	Harris	Brad	MA - Massachusetts MPO	MPO	Rt 1427 Water Street	Fitchburg	MA	01420-
273	Hasenstab	Michael D.	Healey Railroad Corporation		1500 Huguenot Rd Suite 101	Midlothian	VA	23113
274	Hassinger	James	Southwestern Pennsylvania Commission	MPO	425 6th Avenue, Suite 2500	Pittsburgh	PA	15219-1852
275	Hailey	Dan	Charleston Area Transportation Study	MPO	5290 Rivers Avenue, Suite 400	North Charleston	SC	29406-
276	Haugen	Earl	Grand Forks-East Grand Forks MPO	MPO	City Hall, Room 202	Grand Forks	ND	58206-
277	Hawkins	Jeff	AR- Northwest Arkansas Regional Trans. Study	MPO	225 North 4th Street	Springdale	AR	72762-
278	Hawley	Jim	IN- Tippecanoe County Area Plan Commission	MPO	1311 Clayton Street	Lafayette	IN	47901-
279	Headley	Kim	CO- Pueblo Area COG	MPO	229 West 12th Street	Pueblo	CO	81003-
280	Hebert	Roland J.	MA - Southeastern Regional Planning & Economic Dev	MPO	88 Broadway	Taunton	MA	02780-
281	Heckler	Herb	Kingston MPO	MPO	244 Fair Street	Kingston	NY	12401-
282	Heicksen	Rick	Fayetteville Area MPO	MPO	130 Gillespie Street, 2nd Floor	Fayetteville	NC	28302-1829
283	Heinz	Glenn	MA - Central Massachusetts MPO	MPO	204A Riverend Drive	London	KY	40744
284	Hellstrom	Carl E.	CA- Bay Area MPO	MPO	35 Harvard Street	Worcester	MA	01609-2801
285	Heminger	Steve	MO - Mid-America Regional Council	MPO	Meiro Center 101 8th Street	Oakland	CA	94607-
286	Henderson	Mell	MO - Mid-America Regional Council	MPO	300 Rivergate Center 600 Broadway	Kansas City	MO	64105-1554
287	Hendrix	David	AL- South Wiregrass Area MPO	MPO	Roy Drigger Municipal Building, Room 303 126 North St. Andrews Street	Dothan	AL	36303-
288	Henn	Reynold W.	American Underground Construction Association	Construction	3001 Hennepin Avenue, So., Suite D202	Minneapolis	MN	55408-

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289	Herstein	Robert	Maryland State Highway Administration	US DOT HIGHWAY-RAIL	7491 Connolly Drive	Hanover	MD	217076-
290	Higgins	Jim	MI - Macatawa Area Coordinating Council	MPO	400 136th Avenue, Suite 416	Holland	MI	49424-
291	Hill	Jim	Wheeling and Lake Erie Railway Company - AAR	MPO	100 East First Street	Brewster	OH	44613
292	Hiller	Sue	GA - Floyd-Rome Urban Transportation Study	MPO	607 Broad Street	Rome	GA	30162-
293	Hilton	Cynthia	Institute of Makers of Explosives	MPO	1120 Nineteenth St., NW, Suite 310	Washington	DC	20036
294	Himes	Larry	Clark County-Springfield Transportation Study	MPO	City Hall	Springfield	OH	45502-
295	Hindris	Rex	Wisconsin Department of Transportation	US DOT HIGHWAY-RAIL	76 East High Street	Madison	WI	53707-7913
296	Hissong	Tina	Michigan Dept. of Transportation	US DOT HIGHWAY-RAIL	4802 Sheboygan Ave., Room 933	Lansing	MI	48909-
297	Hoge	William	Sumter Urban Area Transportation Study	MPO	P.O. Box 30050	Sumter	SC	29151-
298	Hokenstad	Carl	Bismark-Mandan MPO	MPO	33 North Main Street	Bismark	ND	58506-
299	Holden	Martin	Sheboygan MPO	MPO	Old Fort Square, Suite 211	Green Bay	WI	54309-2757
300	Holst	Richard	AL - Northwest Alabama Council of Local Govs.	MPO	211 North Broadway	Muscle Shoals	AL	35661-
301	Hooper	Fran	American Public Transportation Association (APTA)	MPO	103 Student Drive	Washington	DC	20006
302	Hopkins	Harry	IL - Springfield Area Transportation Study	MPO	1686 K Street, NW	Springfield	IL	62701-1629
303	Horn	Roger A.	Safe Travel America	MPO	200 South 9th Street, Room 212	Salt Lake City	UT	84103
304	Horton	Willie	MS - Hattiesburg-Petal-Forest-Lamar MPO	MPO	1793 East Fort Douglas Circle	Hattiesburg	MS	39401-1898
305	Horton	Patsy	Rapid City Area MPO	MPO	200 Forrest St.	Rapid City	SD	57701-
306	Hull	Steve	Indiana Department of Transportation	US DOT HIGHWAY-RAIL	300 Sixth Street	Indianapolis	IN	46204-
307	Ice	Carl	Burlington Northern Santa Fe - AAR	MPO	100 N. Senate Ave.	Fl. Worth	TX	76161
308	Indiana	Rick A.	Brotherhood of Maintenance of Way Employees	MPO	2600 Lou Menk Drive	Washington	DC	20002
309	Itani	Abed	MI - Grand Valley Metropolitan Council	MPO	10 G Street, N.E.	Grand Rapids	MI	49503-
310	Ives	Larry	IN - Kokomo & Howard County Gov Coordinating Council	MPO	40 Pearl Street NW, Suite 410	Kokomo	IN	46901-
311	Jaeger	Paul	Stark County Area Transportation	MPO	120 East Mulberry Street, Suite 116	Canton	OH	44702-
312	Jilla	Robert	Alabama Department of Transportation	US DOT HIGHWAY-RAIL	201 3rd Street, NE, suite 201	Montgomery	AL	36110-
313	Johnson	Edison	Capital Area MPO	MPO	127 West Hargett St.	Raleigh	NC	27601-
314	Johnson	Arthur	Safe Travel America	MPO	10680 Red Barn Lane	Potomac	MD	20854
315	Johnson	David	National Association of Railroad Passengers	MPO	900 Second St. NE	Washington	DC	20002
316	Johnson	Julie Ann	Association of Railway Museums	MPO	28W351 Geneva Road	West Chicago	IL	60185
317	Johnson	Richard A.	Transportation Communications International Union/BRC	MPO	3 Research Place	Rockville	MD	18109-
318	Kaiser	Michael	Lehigh Valley Transportation Study	MPO	961 Marcon Boulevard, Suite 310	Allentown	PA	18109-
319	Kamm	Bob	FL - Brevard MPO	MPO	Transportation Planning Office	Viera	FL	32940-
320	Kane	Tom	IA - Des Moines Area MPO	MPO	2725 Judge Fran. Jamieson Way, Building A, Room 109	Urbandale	IA	50322-2866
321	Karns	Nathaniel W.	MA - Berkshire MPO	MPO	Merle Hay Centre, Suite 300 West	Pittsfield	MA	01201-
322	Karr	Patricia A.	MI - Battle Creek Area Transportation Study	MPO	6200 Aurora Avenue	Springfield	MI	49015-1474
323	Kawada	Kim	CA - San Diego Association of Governments	MPO	1 Fenn Street	San Diego	CA	92101-
324	Keane	Bob	Canadian National - AAR	MPO	401 B Street, Suite 800	Homewood	IL	60430
325	Keating	Robert	FL - Indian River County MPO	MPO	17641 South Ashland Avenue	Vero Beach	FL	32960-
326	Keller	Ray	IL - DeKalb-Sycamore Area Transportation Study	MPO	County Administration Building	DeKalb	IL	60116-
327	Kelly	Patrick	American Petroleum Institute	MPO	1840 25th Street	Washington	DC	20005
328	Kemp	Jim	CA - Santa Barbara County Association of Gov.	MPO	223 South Fourth Street, Suite A	Santa Barbara	CA	93110-
329	Kenson	Richard A.	ME - Bangor Area Comprehensive Trans. System	MPO	260 North San Antonio Road, Suite B	Bangor	ME	04401-
330	Kerr	Steve	Winchester-Frederick County MPO	MPO	One Cumberland Place, Suite 300	Front Royal	VA	22630-
331	Kholbuss	Terry	IL - Peoria-Peoria Urban Area Trans. Study	MPO	103 East 6th Street	Peoria	IL	61602-
332	Kienzer	Jim	Canadian Pacific Railway - AAR	MPO	Associated Bank Building, Suite 2001	Calgary	AB	T2P 4Z4
333	Kiesow	Harlan	Appleton-Oshkosh-Fond du Lac MPO	MPO	411 Hamilton Boulevard	Menasha	WI	54952-3100
334	Kirby	Ronald	DC - National Capital Region Trans. Planning Board	MPO	Suite 500, Gulf Canada Square	Washington	DC	20002-
335	Kirn	Marjie	CA - Merced County Association of Governments	MPO	132 Main Street	Merced	CA	95340-
336	Klette	Cynthia	Missoula Transportation Policy Coordinating Commit	MPO	777 North Capitol Street, NE, Suite 300	Missoula	MT	59802-
337	Knight	William	Chittenden County MPO	MPO	369 West 18th Street	South Burlington	VT	05403-6825
338	Knoelbauch	Glenn	Reading Area Transportation Study	MPO	30 Kimball Avenue, Suite 206	Reading	PA	19601-4309
339	Koogler-Vaughan	Tammy	Steel Industry Systems Association	Steel	Berks County Services Center, 14th Floor 635 Court Street	Ghent	Kentucky	41046-
340	Komornick	Anthony	MA - Merrimack Valley MPO	MPO	Gallatin Steel Company U.S. Hwy. 42 West	Haverhill	MA	01830-
341	Kouzakkani	Amr A.	MA - Pioneer Valley MPO	MPO	160 Main Street	West Springfield	MA	01089-2787
342	Kovach	Daniel	CA - Shasta County Regional Trans. Planning Agency	MPO	26 Central Street, Suite 34	Reading	CA	96001-
343	Krause	Linda	CT - CT River Estuary Regional Planning Agency	MPO	1855 Placer Street	Old Saybrook	CT	06475-

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344	Krause	Gregory	Regional Transportation Commission of Washoe City	MPO	1600 Suirto Street	Reno	NV	89512-
345	Krauter	Charles	GA- Atlanta Regional Commission	MPO	40 Courtyard Street, NE	Atlanta	GA	30303-
346	Kraie	Gregory S.			10 G Street, NW	Washington	DC	20002
347	Kruzeinick	Richard	New Jersey Dept. of Transportation	US DOT HIGHWAY-RAIL	1035 Parkway Avenue P.O. Box 60C	Trenton	NJ	08625-
348	Kunishige	Karl	Hawaii Dept. of Transportation	US DOT HIGHWAY-RAIL	869 Punchbowl Street	Honolulu	HI	96813-
349	Kush	Donald	Chippewa-Eau Claire MPO	MPO	800 Wisconsin Street, Mail Box 9	Eau Claire	WI	54703-
350	Kushner	Mark	Tri-Cities Metropolitan Area Trans. Study	MPO	1622 Terminal Drive	Richardson	WA	99352-
351	Kyle	Joe	Oklahoma Dept. of Transportation	US DOT HIGHWAY-RAIL	200 N. E. 21st Street	Oklahoma City	OK	73105-
352	Laffey	Steve	Illinois Commerce Commission	AHB60 MEMBER	527 East Capital Avenue	Springfield	IL	62701-
353	Lake	Robert	AL- Tuscaloosa Area MPO	MPO	4200 Highway 69 North, Suite 1	Northport	AL	35473-
354	Lamb	Stephen	Mechanical Contractors Association of Chicago	Construction	221 N. LaSalle St. Suite 3400	Chicago	IL	60601-
355	Lamine	Chuck	Green Bay MPO	MPO	City Hall, Room 618	Green Bay	WI	54301-5026
356	Lanning	David	Oregon Dept. of Transportation	US DOT HIGHWAY-RAIL	100 North Jefferson Street	Salem	OR	97310-
357	Larnting	Richard	MO - Joplin MPO	MPO	555 13th Street NE, Suite 3	Joplin	MO	64801-
358	Larreau	Jimmy D.	SEIU, NCFD S.C. 19	MPO	12697 Saddle Road	North Platte	NE	69101
359	Lasker	Jerry	Indian Nations COG	MPO	201 West 5th Street, Suite 600	Tulsa	OK	74103-4236
360	LaSuz	Linda	Bryan-College Station MPO	MPO	3608 East 29th Street, Suite 113	Bryan	TX	77802-
361	Lawler	Robert	Mid-Ohio Regional Planning Commission	MPO	285 East Main Street	Columbus	OH	43215-
362	Lawrence	Wendell	KY- Radcliff-Elizabethtown MPO	MPO	613 College Street Road	Elizabethtown	KY	42702-0604
363	Lemman	Briad	Arizona Department of Transportation	US DOT HIGHWAY-RAIL	1739 W. Jackson St. 064R	Phoenix	AZ	85250-
364	Lenox	Jack	MD - Salisbury-Wicomico MPO	MPO	P.O. Box 870	Salisbury	MD	21803-
365	Lewis	Ted R.	Union Pacific Railroad		1400 Douglas Street	Omaha	NE	68179
366	Lewis II	Charles	West Virginia DOT, Division of Highways	AHB60 MEMBER	1900 Kanawha Blvd East	Charleston	WV	25305-
367	Lindsay	Harry	Lackawanna-Luzerne Transportation Study	MPO	Courthouse Annex Building, 6th Floor	Scranton	PA	18503-
368	Lindsay	Alan	BNSF Railway	MPO	200 Adams Avenue	Fort Worth	TX	76161
369	Lingerfelter	Chad	IA- Sioux City MPC	MPO	507 Seventh Street, Suite 401	Sioux City	IA	51102-
370	Lockhart	Lawrence	Mississippi Dept. of Transportation	US DOT HIGHWAY-RAIL	P.O. Box 1860	Jackson	MS	39215-
371	Lookingbill	Dean	Southwest Washington Regional Trans. Council	MPO	Clark County Public Service Center	Vancouver	WA	98660-
372	Lott	Doug	Utah Steel Fabricators Association	Steel	1300 Franklin Street, 4th Floor	Brownsville	TX	76520-
373	Lund	Mark	Brownsville MPO	MPO	1150 East Adams St. El Tapiz Building	Brownsville	TX	78520-
374	Lupo	Vincent F.	Municipal Construction Officials Association of NJ	Construction	C/O MUNICO 475 Demott Lane	Somerset	NJ	08873-
375	Lynn	Tommy	West Kentucky Construction Association	Construction	2201 McCracken Blvd., P.O. Box 1089	Paducah	KY	42301-
376	Lynn	Daniel	Richmond Area MPO	MPO	2104 West Laburnum Avenue, Suite 101	Richmond	VA	23227-
377	MacDonald	Robert	CO- Pikes Peak Area COG	MPO	15 South 7th Street	Colorado Springs	CO	80905-
378	MacNicol	Alex	Policy Committee of the Erie Regional Planning Com	MPO	2900 Columbus Avenue	Sandusky	OH	44870-
379	Maier	Howard	Northeast Ohio Area-wide Coordinating Agency	MPO	1289 Superior Avenue	Cleveland	OH	44114-3204
380	Maley	Patricia	CA- Madera County Trans. Commission	MPO	1816 Howard Road, Suite 8	Madera	CA	93637-
381	Mann	Lawrence M.	Alber, Mann and Weisbaum - UTU	MPO	9205 Redwood Avenue	Bethesda	MD	20817
382	Manster	Stephen	Fredericksburg Area MPO	MPO	3304 Bourbon Street, 3rd Floor	Fredericksburg	VA	22408-
383	Marceau	Rick	Ohio Public Utilities Commission		14600 Detroit Avenue	Cleveland	OH	44107
384	Marvin	Robert E.	KCS Railway		180 East Broad Street	Columbus	OH	43215
385	Marzec	Dennis	Transport Workers Union of America AFL-CIO		4601 Shreveport-Blanchard Hwy	Shreveport	LA	71107
386	Maslanka	Gary	Transport Workers Union of America AFL-CIO		1700 Broadway - 2nd Floor	New York	NY	10019
387	Mason	Thomas	Cheyenne MPO	MPO	2101 O'Neil Avenue, Room 309	Cheyenne	WY	82001-
388	Mastrangelo	M.	Norfolk Southern Corporation	AHB60 MEMBER	110 Franklin Road SE	Roanoke	VA	24042-
389	Mather	Dick	AL- Decatur MPO	AHB60 MEMBER	1485 Ammon Street NW	Salem	OR	97304-2035
390	Mathews	Ronald	Brotherhood of Railroad Signalmen	MPO	216 Jackson Street, SE	Decatur	AL	35601-
391	Mattngly	Joe L.	Yellowstone County Planning Board	MPO	400 Conessa Lane	Trenton	KY	42298
392	Mattix	Ramona	Lima-Allen County Regional Planning Commission	MPO	Parmlly Library, 4th Floor	Billings	MT	59101-
393	Mazur	Tom	Texasikana MPO	MPO	130 West North Street	Lima	OH	45801-
394	McCaleb	F. Leo	American Train Dispatchers Association	MPO	220 Texas Blvd.	Texasikana	TX	75501-
395	McCann	Mark	Roanoke Valley MPO	MPO	1370 Ontario St. Suite 1040	Cleveland	OH	44113
396	McCaskill	Mark	Roanoke Valley MPO	MPO	313 Luck Avenue, SW	Roanoke	VA	24016-
397	McDaniel	Harold	Amarillo MPO	MPO	City Hall, Room 204	Amarillo	TX	79106-1971
398	McDonald	Robert	Madison Area MPO	MPO	509 SE 7th Avenue	Madison	WI	53703-
399	McDonald	George J.	Transport Workers Union of America, AFL-CIO		121 South Pinckney Street, Suite 400	New York	NY	10019
400	McDougal	Brian	GA- South Georgia Reg. Development Center	MPO	1700 Broadway - 2nd Floor	Valdosta	GA	31601

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401	Mointosh	Kevin	KCS		Cathedral Square	Kansas City	MO	64105
402	McKenna	Francis G.	Anderson & Penderell, CA, Inc. - Tourist Railway Assoc.		206 N. Washington Street, S. 330	Alexandria	VA	22314
403	McKenna	Jim	AR- Metroplan	MPO	501 West Markham Street, Suite B	Little Rock	AR	72201
404	McKinnzie	Maurice	Anderson Area Transportation Study	MPO	401 South Main Street	Anderson	SC	29624
405	McKinnzie	Jim	AR-Jonesboro Area Trans. Study Policy Committee	MPO	P.O. Box 1845	Jonesboro	AR	72403-1845
406	McNeely	Hugh	Waco MPO	MPO	300 Austin Avenue	Waco	TX	76701
407	Medina	Jeffrey D.	RailWorks Corporation		4027 Log Trail Way	Reisterstown	MD	21136
408	Mehta	Jamshed	KS- Wichita-Segwick County Metro Area Plannin Comm	MPO	City Hall, 10th Floor 485 North Main Street	Wichita	KS	67202-1688
409	Mesa	Jose Luis	FL- Miami - Dade MPO	MPO	111 NW 1st Street, Suite 910	Miami	FL	33128
410	Meyer	Bill	GA- Gainesville MPO	MPO	440 Prior Street, SE	Gainesville	GA	
411	Meyer	Tyler	Greensboro Urban Area MPO	MPO	300 West Washington Street	Greensboro	NC	27402
412	Meyer	M. Lee	Lebanon County MPO	MPO	Municipal Building Room 206	Lebanon	PA	17042-6794
413	Mikorski	Jeff	Morgantown-Monongalia County Transportation P.O.	MPO	400 South 8th Street	Morgantown	WV	26565
414	Miles	Glenn	Spokane Regional Transportation Council	MPO	389 Spruce Street	Spokane	WA	99201-3613
415	Miller	Harry	Heikimer-Onelda Counties Transportation Study	MPO	Boehrlert Center at Union Station	Ulica	NY	13501
416	Miller	Ray	Victoria MPO	MPO	321 Main Street	Victoria	TX	77901
417	Miller	Jim	Whatcomog	MPO	700 Main Center, Suite 201	Bellingham	WA	98225
418	Miller	D.	Rocky Mountain Steel Construction Association	Steel	314 East Champion Street	Bellingham	WA	98225
419	Miller, Jr.	John	LA - Rapides Area Planning Commission	MPO	2875 W. Oxford Ave. #3	Englewood	CO	80110
420	Mitchell	Douglas	LA - Ouachata Council of Governments	MPO	5610 East Coliseum Boulevard Suite E	Alexandria	LA	71303
421	Mogano	Dennis	METRA (NIRC)		1913 Stubbs Ave.	Monroe	LA	71201
422	Mogor	Edward	Hidalgo County MPO	MPO	547 West Jackson Blvd	Chicago	IL	60661
423	Moller	Jeffrey F.	AAR		311 North 15th Street	McAllen	TX	78501-4705
424	Morning	Lay	West Virginia Dept. of Transportation	US DOT HIGHWAY-RAIL	50 F Street NW	Washington	DC	20001
425	Montgomery	Rex	Bristol MPO	MPO	City Hall Annex 104 8th Street	Bristol	TN	37621
426	Moody	Marta	IN- Delaware-Muncie Met. Planning Commission	MPO	Delaware County Building, Room 206	Muncie	IN	47305-2827
427	Moore	Young-Jun	The Korea Transport Institute	MPO	100 West Main Street	Koyang-city	Kyonggi-do	
428	Moore	Dan	Rogue Valley COG	AH860 MEMBER	2311 Daehwah-dong, Lisan-gu	Central Point	OR	97502
429	Morales	Bill	Tyler Urban Transportation Study MPO	MPO	155 North 1st Street	Tyler	TX	75702
430	Morgan	Bill	AL- Mobile Area Transportation Study	MPO	Address 423 West Ferguson	Mobile	AL	36633
431	Morabesser	Marvin	Connecticut Construction Industries Association	Construction	651 Church Street	Waterfield	CT	06019
432	Morris	Michael	North Central Texas COG	MPO	912 Silas Deane Highway	Dallas/Fort Worth	TX	76011-6347
433	Morris	Dennis	TTCiles Area MPO	MPO	616 Six Flags Drive, Suite 200	Petersburg	VA	23866
434	Morse	Hal	Greater Buffalo-Niagara Regional Transportation	MPO	1964 Wakefield Street	Buffalo	NY	14202
435	Mumford	Bob	MA - Cape Cod MPO	MPO	438 Main Street, Suite 503	Barnstable	MA	02630
436	Munn	Darrel	South Carolina Dept. of Transportation	MPO	3225 Main Street	Columbia	SC	29202
437	Munoz	Rosa	California Public Utilities Commission	US DOT HIGHWAY-RAIL	P.O. Box 191	Los Angeles	CA	90013
438	Napier	Marvin	Transportation Communications International Union/BRC	MPO	320 West 4th Street, Suite 500	Rockville	MD	20850
439	Neisler	Don	LA - Capital Regional Planning Commission	MPO	3 Research Place	Baton Rouge	LA	70802
440	Nelson	Dan	Mountainland Association of Governments	MPO	333 North 19th Street	Orem	UT	84097-4146
441	Nelson	Aidan	Rail Safety & Standards Board	AH860 MEMBER	Stratford Park 686 East 800 North	London	England	
442	Nolat	Merv	IN- West Central Indiana Economic Dev. District	MPO	160 Euston Road	Terre Haute	IN	47808
443	Northcraft	James	Wheeling and Lake Erie Railway Company -AAR	MPO	1718 Wabash Avenue	Brewster	OH	44613
444	Novakovic	Alex	Transportation Communications International Union/BRC	MPO	100 East First Street	Rockville	MD	20850
445	Nunn	Mike	Cabarrus-South Rowan Urban Area MPO	MPO	118 South Main St	Kannapolis	NC	28081
446	Olasimbo	Noble	FL - Lake Sumter MPO	MPO	123 N. Sinclair Avenue	Tavares	FL	32778
447	Owen	Karen	Longview MPO	MPO	300 West Cotton Street	Longview	TX	75601
448	Pagano	Philip A.	METRA - AAR		547 W. Jackson Blvd	Chicago	IL	60661
449	Pajunen	Kirsi	VTT Building and Transport	AH860 MEMBER	P.O. Box 1800	Detroit	MI	48226-3602
450	Paiombo	Carmine	MI - Southeast Michigan COG	MPO	535 Griswold Street, Suite 300	Marina	CA	93933
451	Papadakis	Nicholas	CA- Association of Monterey Bay Area Governments	MPO	445 Reservation Road, Suite G	Steubenville	OH	43952
452	Paprocki	Mike	Brook-Hancock-Jefferson Metropolitan Planning Comm	MPO	124 North 4th Street	Bowling Green	KY	42102-9005
453	Parcell	Darby	KY- Bowling Green MPO	MPO	177 Graham Avenue	Bowling Green	KY	42102-9005
454	Paricio	Greg A	American Train Dispatchers Association		1681 Summit Ave	Willow Grove	PA	19090
455	Paricio Sr.	Greg	American Dispatchers Association	AH860 MEMBER	1681 Summit Avenue	Willow Grove	PA	19090
456	Park	Drew	Pacific Northwest Steel Fabricators Association	Steel	Columbia Wire & Iron Works, Inc.	Portland	OR	97217
457	Payton	George	GA- Augusta Regional Transportation Study	MPO	5555 N Channell Ave., Bldg 4 Annex	Augusta	GA	30901
458	Payne	George	Tourist Railway Association Inc	MPO	525 Telfair Street	Linthicum Hgts.	MD	21090

Identifier	Last Name	First Name	Company Name	Industry	Address	City	State/Province	Postal Code
459	Peacock	Thomas	American Public Transportation Association (APTA)		1686 K Street, NW	Washington	DC	20006
460	Peagler	Joseph	Ideho Transportation Department	US DOT HIGHWAY-RAIL	P.O. Box 7 129	Boise	ID	83707-
461	Peworth	B.J.	Florence Area Transportation Study	MPO	218 West Evans St.	Florence	SC	29501-
462	Penne	Leo	Intermodal and Industry Activities - AAASHTC		444 North Capital Street, NW Room 249	Washington	DC	20001
463	Peters	Don	National Chemical Credit Association	Chemical	1100 Main St.	Buffalo	NY	14209-2356
464	Peterson	John	GA - Brunswick Area Transportation Study	MPO	1603 Gloucester Street, Suite 100	Brunswick	GA	31520-
465	Phillips	James	Georgia Dept. of Transportation	US DOT HIGHWAY-RAIL	935 E. Confederate Ave, Bldg 24	Atlanta	GA	30316-
466	Phillips	William	Belmont-Ohio-Marshall Transportation Study	MPO	105 Bridge Street Plaza	Wheeling	WV	26003-0280
467	Pickett	Dan	Brotherhood of Railroad Signalmen	MPO	917 Shenandoah Shores Road	Front Royal	VA	22630
468	Pierce	Jerry	Rocky Mount Urban Area MPO	MPO	One Government Plaza	Rocky Mount	NC	27801-
469	Pike	Dan	Shaght COG	MPO	204 West Montgomery	ML Vernon	WA	98501-1284
470	Pilant	Stanley	Jackson Urban Area MPO	MPO	111 East Main Street, Suite 201	Jackson	TN	38301-
471	Picano	Mark	CA - Southern California Association of Governments	MPO	818 West 7th Street, 12th Floor	Los Angeles	CA	90017-
472	Pochuk	Philip	Rail Safety Transportation Canada	AHB60 MEMBER	350 Sparks St.	Cleveland	Ontario	44113
473	Pomillo	Tom	Brotherhood of Locomotive Engineers and Trainmen	MPO	1370 Ontario Street	Cleveland	OH	44113
474	Poorman	John	Capital District Transportation Committee	MPO	5 Computer Drive West	Albany	NY	12205-1606
475	Porth	Richard	CT - Capital Region COG	MPO	241 Main Street, 4th Floor	Hartford	CT	06106-5310
476	Prusak	Paul	AK - Fairbanks Metro Area Trans. Study	MPO	2301 Peger Road	Fairbanks	AK	99709-
477	Puko	Dennis	Shenango Valley Area Transportation Study	MPO	2491 Highland Road	Hermilage	PA	16148-
478	Rael	Lawrence	Mid-Region COG	MPO	317 Commercial Street NE, Suite 104	Abuquerque	NM	87102-
479	Ransley	Alene	Omaha-Council Bluffs Metropolitan Area Trans. Agsy	MPO	2222 Cuning Street	Omaha	NE	68102-4328
480	Randall	James	Texas Department of Transportation	US DOT HIGHWAY-RAIL	P.O. Box 149217	Austin	TX	78714-
481	Ranfranz	James	IN - Northwest Indiana Regional Planning Commission	MPO	6100 Southport Road	Portage	IN	46388-
482	Rangel	Benjamin	Great Falls City-County Planning Board	MPO	Great Falls Civic Center 2 Park Drive South	Great Falls	MT	59403-
483	Raub	Richard	Northwestern University	AHB60 MEMBER	405 Church Street	Evanston	IL	60208-
484	Reid	Ray	International Brotherhood of Electrical Workers	MPO	7100 SW Shady Lane	Portland	OR	97223
485	Renauer	Tom	ME - Kittery Area Comprehensive Trans. Study	MPO	21 Braden Street, Suite 304	Springvale	ME	04083-
486	Reiner	Frank	Chlorine Institute, Inc.	MPO	1300 Wilson Blvd	Arlington	VA	22209
487	Reisdorf	Charles	MI - Region 2 Planning Commission	MPO	Jackson County Tower Building, 16th Floor 120 W Michigan Ave	Jackson	MI	49201-
488	Reithel	Jay	MI - Saginaw Metro Area Transportation Study	MPO	615 Court Street	Saginaw	MI	48602-
489	Rezendes	Guy	Massachusetts Highway Department	US DOT HIGHWAY-RAIL	10 Park Plaza, Room 6340	Boston	MA	02116-
490	Rhodes	Karen	Chattanooga Urban Area MPO	MPO	Development Resource Center, Suite 2000	Chattanooga	TN	37402-2713
491	Ries	Ron	Federal Railroad Administration	AHB60 MEMBER	1120 Vermont Avenue, NW	Washington	DC	20590-
492	Risk	Mike	Kentucky Transportation Cabinet	US DOT HIGHWAY-RAIL	501 High Street	Frankfort	KY	40622-
493	Rivera	Eddie	Federal Highway Administration	US DOT HIGHWAY-RAIL	Federal Building, U.S. Courthouse, Room 329	San Juan	PR	00918-
494	Robertson	Jim	Construction Association of South Florida	Construction	Carlos Chardon Street	Ft. Lauderdale	FL	33309-
495	Robnett	William	Casper Area MPO	MPO	3550 Northwest Ninth Avenue	Casper	WY	82601-
496	Robnette	P. Michael	Miami Valley Regional Planning Commission	MPO	200 North David Street, Room 203	Dayton	OH	45402-
497	Robinson	Rob	Illinois Dept. of Transportation	US DOT HIGHWAY-RAIL	40 West 4th Centre, Suite 400	Springfield	IL	62764-
498	Robusto	Ron	National Rail Passenger Corporation		2300 South Dikissen Parkway	Springfield	IL	62764-
499	Roe	Bill	Union Pacific Railroad		1 High Speed Way	Wilmington	DE	19801
500	Rogers	J. Kent	LA - Northwest Louisiana COG	MPO	1400 Douglas Street	Omaha	NE	68179
501	Rogers	Rhonda	Jacksonville MPO	MPO	401 Market Street, Suite 460	Shreveport	LA	71101-
502	Roop	Steve	Texas A&M University	AHB60 MEMBER	211 Johnson Blvd	Jacksonville	NC	28540-
503	Root	Rick	Bend MPO	MPO	3135 TAMU	College Station	TX	77843-2135
504	Rouse	Ken	Union Pacific Railroad	AHB60 MEMBER	710 Wall Street	Bend	OR	97709-
505	Rousseau	Kevin	Maine Department of Transportation	US DOT HIGHWAY-RAIL	24125 Aline	Westfield Spring	TX	77373-
506	Rowlands	Mary	Syracuse Metropolitan Transportation Council	MPO	16 State House Station	Augusta	ME	04333-0016
507	Royer	Jennifer	Vermont Agency of Transportation	MPO	100 Clinton Square, Suite 100	Syracuse	NY	13202-
508	Ruble	Steve	IN - Columbus Area MPO	US DOT HIGHWAY-RAIL	126 North Salina Street	Monpelier	VT	05633-
509	Rudge	Daniel	MO - Springfield Area MPO	MPO	National Life Building	Columbus	IN	47201-
510	Russel	Paul	IL - McLean County Transportation Study	MPO	123 Washington Street	Springfield	MO	65802-
511	Russell	Eugene	Kansas State University	AHB60 MEMBER	840 Boonville Avenue	Bloomington	IL	61701-
512	Satton	Kealy	Poughkeepsie-Dutchess County Transportation Council	MPO	211 West Jefferson Street	Manhattan	KS	66506-2905
513	Sanderson	Mattie	FL - Metropolitan Trans. Planning Organization	MPO	27 High Street, 2nd Floor	Poughkeepsie	NY	12601-
514	Scardelletti	Bobby	New York State Dept. of Transportation	US DOT HIGHWAY-RAIL	2009 NW 6th Place, Suite A	Gainsville	FL	32653-1603
515	Scharf	Christian	FL - Broward County MPO	MPO	3 Research Place	Rockville	MD	20850
516	Schaufele	Jennifer	Fond du Lac Area MPO	MPO	1220 Washington Avenue, State Campus	Albany	NY	12232-
517	Schell	Ann		MPO	115 South Andrews Avenue, Room 329H	Fort Lauderdale	FL	33301-
				MPO	160 South Macy Street	Fond du Lac	WI	54936-



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518	Schnick	Tom	American Chemistry Council		1300 Wilson Boulevard	Arlington	VA	22209
519	Schissel	Jay	Elmira-Chemung Transportation Council	MPO	400 East Church Street	Elmira	NY	14901-
520	Schmid	Richard	Salem-Keizer Area Transportation study	MPO	105 High Street, SE	Salem	OR	97301-
521	Schmiz	Joe	Farmingington MPO	MPO	800 Municipal Drive	Farmingington	NM	87401-
522	Schulze	Tom	New York Metropolitan Transportation Council	MPO	199 Water Street, 22nd Floor	New York City	NY	10103-
523	Schulze	Mark	BNSF	MPO	2600 Lou Menk Drive	Fl Worth	TX	76131
524	Schweitz	Thomas	Lane COG	MPO	99 East Broadway, Suite 400	Eugene	OR	97401-3111
525	Scott	Donald C.	National Railroad Passenger Corporation - AMTRAK (Amtrak Training Center)	MPO	1 High Speed Way	Williamington	DE	19801
526	Scanor	Sandra	IN- Michiana Area COG	MPO	227 West Jefferson Boulevard, Room 1120	South Bend	IN	46601-
527	Sealy	Mike	Utah Department of Transportation	US DOT HIGHWAY-RAIL	4501 South 2700 West	Salt Lake City	UT	84114-
528	Seese	Steve	Wichita Falls MPO	MPO	2100 Seymour Highway	Wichita Falls	TX	76301-
529	Selig	Mike	Arkansas Highway & Transportation Dept	US DOT HIGHWAY-RAIL	P.O. Box 2261	Little Rock	AR	72203-
530	Serman	Kelita	Laredo Urban Transportation Study	MPO	1110 Houston Street	Laredo	TX	78042-0579
531	Shannis	Donald	Delaware Valley Regional Planning Commission	MPO	111 South Independence Mall East	Philadelphia	PA	19106-
532	Sharkey, III	John	Sheridan Systems Corporation	AHB60 MEMBER	37W890 Acorn Lane	Elgin	IL	60123-
533	Sharkey, III	Andrew G.	American Iron and Steel Institute	Steel	1140 Connecticut Ave., NW Suite 705	Washington	D.C.	20036-
534	Sharma	Manindra	Southern New Hampshire Planning Commission	MPO	438 Dubeque Street	Manchester	NH	03102-
535	Shrewsbury	Bill	Louisiana Dept. of Transportation & Development	US DOT HIGHWAY-RAIL	Capitol Station, Room 501P P.O. Box 94245	Baton Rouge	LA	70804-
536	Simpola	Rosemary	Longview-Kelso-Rainier MPO	MPO	207 4th Avenue North	Kelso	WA	98626-
537	Simpson	Fred	BNMVE Division		20300 Civic Center Drive, Suite 320	Southfield	MI	48076
538	Simpson	Thomas D.	Railway Supply Institute, Inc	Construction	50 F Street, N.W.	Washington	DC	20001
539	Singer	Robert A.	Construction Association of Michigan	MPO	43836 Woodward P.O. Box 3204	Bloomfield Hills	MI	48302-
540	Sinnott	Cliff	Salem-Plastow-Windham MPO	MPO	156 Water Street	Exeter	NH	03833-
541	Skinner	Allan	AR- Southeast Arkansas Regional Planning Comm.	MPO	1300 Ohio Street	Pine Bluff	AR	71601-
542	Skone	Don	Yakima MPO	MPO	6 South 2nd Street, Suite 605	Yakima	WA	98901-
543	Slay	Greg	FL-Ocala - Marion County MPO	MPO	121 SE Watula Ave.	Ocala	FL	34478-
544	Slemni	Rashid	D.C. Traffic Services Administration	US DOT HIGHWAY-RAIL	2000 14th Street, NW, 7th Floor	Washington	DC	20009-
545	Smart	Gilbert	Connecticut Dept. of Transportation	US DOT HIGHWAY-RAIL	P.O. Box 317546	Newing	CT	06131-
546	Smetana	E Lisa	San Angelo MPO	MPO	72 West College Avenue	San Angelo	TX	76903-8814
547	Smith	Mark	IL- Decatur Urbanized Area Transportation Study	MPO	141 South Main Street, Room 501	Decatur	IL	62523-
548	Smith	Larry T.	MS - Central Mississippi Planning & Dev Distric	MPO	1170 Lakeand Drive	Jackson	MS	39269-
549	Smith	Kurt	Alaska Dept. of Transportation & PF	US DOT HIGHWAY-RAIL	3132 Channel Drive	Juneau	AK	99801-
550	Smith	Tim	Georgia Dept. of Transportation	US DOT HIGHWAY-RAIL	935 E. Confederate Ave, Bldg 24	Atlanta	GA	30316-
551	Smith	Greg	Kentucky Transportation Cabinet	US DOT HIGHWAY-RAIL	501 High Street	Frankfort	KY	40622-
552	Snoot	Chuck	Indiana Department of Transportation	US DOT HIGHWAY-RAIL	100 N. Senate Ave.	Indianapolis	IN	46204-
553	Snow	Jacob	Regional Transportation Commission of S. NV	MPO	600 South Grand Central Parkway Suite 350	Las Vegas	NV	89106-
554	Solesky	Joseph	Railroad Safety & Health	MPO	1100 N. Eulan St. Room 300	Baltimore	MD	21201
555	Soile	Cynthia	Oregon Cascades West COG	MPO	State Transportation Building, Suite 2150 10 Park Plaza	Corvallis	OR	97331
556	Soolman	Arnie	MA - Boston MPO	MPO	1 Hazen Drive, P.O. Box 483	Boston	MA	02116-
557	Sooper	Michael	New Hampshire Dept. of Transportation	US DOT HIGHWAY-RAIL	City Hall, 3rd Floor 100 State Street	Concord	NH	03302-
558	Spanle	Robert	State Line Area Transportation Study	MPO	211 W. Aspen Ave.	Beloit	WI	53511-
559	Spinar	Ronald	AZ Flagstaff MPO	MPO	55 Broadway	Flagstaff	AZ	86001-
560	Sposato	Suzanne	US DOT/RS&PA/Volpe Center	AHB60 MEMBER	Washington County Municipal Center, A-231	Cambridge	MA	02414-2
561	Strankenseld	Aaron	Adirondack/Glens Falls Transportation Council	MPO	383 Upper Broadway	Fort Edward	NY	12828-
562	Stanley	Gary M.	MI - Bay City Area Transportation Study	MPO	515 Center Avenue, Suite 505	Bay City	MI	48708-5126
563	Start	Jonathan	MI - Kalamazoo Area Transportation Study	MPO	3801 East Kligore Road	Kalamazoo	MI	49001-5534
564	Stem	James A.	United Transportation Union	MPO	304 Pennsylvania Ave. SE	Washington	DC	20003
565	Stephani	Carl	CT- Central Connecticut Regional Planning Agency	MPO	225 North Main Street, Suite 304	Bristol	CT	06010-9993
566	Stevens	Jeanne	Nashville Area MPO	MPO	730 2nd Avenue South	Nashville	TN	37201-
567	Strachan	R. Stephen	National Railroad Passenger Corporation - AMTRAK	MPO	15 S. Poplar Street, Consolidated National Operations Center	Williamington	DE	19801
568	Streicher	Thomas E.	ASLRRRA	MPO	50 F Street, N.W.	Washington	DC	20001
569	Strider	William	Harrisburg-Rockingham MPO	MPO	112 MacFarly Place	Staunton	VA	24401-
570	Sivron	Jim	North Dakota Dept. of Transportation	US DOT HIGHWAY-RAIL	608 E. Boulevard Avenue, Room 323	Bismarck	ND	58505-
571	Sulzer	Steve	Centre Region MPO	MPO	2643 Gateway Dr., Suite 4	State College	PA	16801-
572	Sullivan	Tom	UTU Local 7-E	MPO	1711 West Philip	North Platte	NE	68101
573	Swanson	Tom	AZ- Pima Association of Governments	MPO	177 N. Church Avenue, Suite 405	Tucson	AZ	85701-
574	Swint	Robert	ATA Associates	AHB60 MEMBER	1301 Gemini	Houston	TX	77058-
575	Szymborski	James	Harrisburg Area Transportation Study	MPO	112 Market Street, 2nd Floor	Harrisburg	PA	17101-
576	Taylor	Zach	Association of Central Oklahoma Governments	MPO	21 East Main Street, Suite 100	Oklahoma City	OK	73104-2405
577	Teel	Mizi	Columbia Area Transportation Study	MPO	236 Stonebridge Drive	Columbia	SC	29210-
578	Thomas	James	GA- Macon Area Transportation Study	MPO	682 Cherry Street, Suite 1000	Macon	GA	31201-

Identifier	Last Name	First Name	Company Name	Industry	Address	City	State/Province	Postal Code
579	Thomas	Scott	Alaska Dept. of Transportation & PF	US DOT HIGHWAY-RAIL	PO Box 198600	Anchorage	AK	99519-
580	Thompson	C. Kenneth	Grand-Strand Area Transportation Study	MPO	1230 Highmarket Street	Georgetown	SC	29440-
581	Thompson	Bill	Wyoming Transportation Department	US DOT HIGHWAY-RAIL	P.O. Box 1708	Cheyenne	WY	82003-
582	Thompson	Dineha	ATT Associates	AHB60 MEMBER	97196 Thornbush drive	Fairfax station	VA	22039-
583	Thompson	Jonathan	ATI Tech	AHB60 MEMBER				
584	Thompson	Paul C.	United Transportation Union	MPO	304 Pennsylvania Avenue, SE	Washington	DC	20003
585	Thurston	David	KS - Topeka-Shawnee County Metro Plannin Commission	MPO	315 South Kansas Street, Suite 404	Topeka	KS	66603-
586	Tringle	Carl A.		MPO	9015 Lemon Rd	Slaughter	LA	70777
587	Tinkler	John	Wilmington Urban Area MPO	MPO	305 Chesnut Street, 4th floor	Wilmington	NC	28401-
588	Tippett	Mark	Unifur MPO	MPO	736 Fourth Street SW	Hickory	NC	28602-
589	Tobin	Bill	IA - Dubuque Metro Area Transportation Study	MPO	3999 Pennsylvania Avenue, Suite 20C	Dubuque	IA	52002-
590	Tollman	John	Brotherhood of Locomotive Engineers and Trainmen	MPO	25 Louisiana Ave NW	Washington	DC	20001
591	Tramel	Tony	LA - Lafayette MPO	MPO	705 W. University	Lafayette	LA	70506-
592	Trapani	Katherine	State Planning Council	MPO	1 Capitol Hill	Providence	RI	02908-
593	Tull	Harold	KY - Kentucky Regional Planning & Dev. Agency	MPO	11520 Commonwealth Drive	Louisville	KY	40299-
594	Tuttle	Martin	CA - Sacramento Area COG	MPO	1415 L Street, Suite 300	Sacramento	CA	95814-
595	Tysinger	Tom	Greenville Urban Area MPO	MPO	1500 Beatty Street	Greenville	NC	27834-
596	Uden	Doug	FL - Pasco County MPO	MPO	7530 Little Road, Suite 320	New Port Richey	FL	34654-
597	Van den Bosch	Larry	GA - North Georgia Regional Development Center	MPO	503 West Waught Street	Dalton	GA	30720-3475
598	Van Miller	Mike	IL - Kankakee Area Transportation Study	MPO	189 East Court Street, Suite 201	Kankakee	IL	60901-
599	VanderClute	Bob	AAR	MPO	50 F Street, N. W.	Washington	DC	20001
600	Vaughn	Gary C.	WATCO Companies, Inc	MPO	315 W. 3rd Street	Pittsburg	KS	66762
601	Vicudas	Aristides	IL - Chicago Area Transportation Study	MPO	300 West Adams Street, 2nd Floor	Chicago	IL	60606-
602	Vidal	Guillermo	CO - Denver Regional COG	MPO	4500 Cherry Creek Drive South, Suite 800	Denver	CO	80246-
603	Vonetz	David	South Dakota Dept. of Transportation	US DOT HIGHWAY-RAIL	700 East Broadway Avenue	Pierre	SD	57501-
604	Vonasek	Beverly	Nebraska Department of Roads	US DOT HIGHWAY-RAIL	P.O. Box 94759	Lincoln	NE	68509-4759
605	Waldrip	John	Arkansas Highway & Transportation Dept	US DOT HIGHWAY-RAIL	P.O. Box 2261	Little Rock	AR	72203-
606	Wallis	Jason	Colorado Dept. of Transportation	US DOT HIGHWAY-RAIL	4201 East Arkansas Ave., Empire Park	Denver	CO	80222-
607	Wallis	Jerry	Williamsport Area Transportation Study	MPO	48 West 3rd Street	Williamsport	PA	17701-
608	Walsh	Joanne	San Antonio-Bexar County MPO	MPO	1021 San Pedro	San Antonio	TX	78212-
609	Walt	James	CT - Greater Bridgeport / Valley MPO	MPO	525 Water Street	Bridgeport	CT	06604-4902
610	Ward	Sarah	FL - Pinellas County MPO	MPO	600 Cleveland Street, Suite 750	Clearwater	FL	33755-
611	Waters	Kathryn D.	Dallas Area Rapid Transit	MPO	1401 Pacific Avenue	Dallas	TX	75266
612	Watson	Steve	ID - Lewis-Clark Valley MPO	MPO				
613	Watts	Larry	AL - Birmingham MPO	MPO	1731 First Ave. North, Suite 200	Birmingham	AL	35203-
614	Weinmeister	Charles J.	Norfolk Southern Corporation - AAR	MPO	110 Franklin Road, SE - Box 73	Roanoke	VA	24042
615	Weigand	Paul	IA - Ames Area MPO	MPO	515 Clark Avenue	Ames	IA	50010-
616	Weiner	Joel	North Jersey Transportation Planning Authority	MPO	One Newark Center, 17th Floor	Newark	NJ	07102-
617	Weich	Jeffrey	Knoxville Regional Transportation P.O.	MPO	400 Main Street, Suite 403	Knoxville	TN	37902-
618	Weizenbach	Karl	FL - Volusia County MPO	MPO	1190 Palican Bay Drive	Daytona Beach	FL	32119-1381
619	West	Darrell	ID - Bonnevillle MPO	MPO	380 Constitution Way	Klatho Falls	ID	83405-
620	Wheatley	Dean	IA - Linn County Regional Planning Commission	MPO	50 2nd Ave. Bridge, 6th floor	Cedar Rapids	IA	52401-
621	Wheeler	Philip H.	MIN - Rochester-Olmsted COG	MPO	2122 Campus Drive SE	Rochester	MIN	55904-
622	White	Bob	Central Virginia MPO	MPO	915 Main Street, Suite 202	Lynchburg	VA	24504-
623	Whitfield	Randy	FL - Palm Beach County MPO	MPO	160 Australian Avenue, Suite 201	West Palm Beach	FL	33406-
624	Wirczorek	Juanita	DE - Dover / Kent County MPO	MPO	655 Bay Road, Suite 208	Dover	DE	19903-
625	Wiggins	Richard	Tahoe MPO	MPO	128 Market Street	Staeline	NV	89449-5310
626	Wiglesworth	Eric	Accident Research Centre	AHB60 MEMBER	Monash University	Clayton	Victoria	31600-
627	Wilkins	Leif	Wenatchee Valley Transportation Council	MPO	300 South Columbia Street	Wenatchee	WA	98801-
628	Wilkinson	Elaine G.	MS - Gulf Regional Planning Commission	MPO	1232 Pass Road	Gulfport	MS	39501-
629	Willet	Mike	AZ - Central Yavapai MPO	MPO	c/o Yavapai County	Prescott	AZ	86305-
630	Williams	Stephen	Nashua Regional Planning Commission	MPO	1100 Commerce Drive	Nashua	NH	03061-
631	Williams	Stan	Clarksville Urban Area MPO	MPO	115 Main Street	Clarksville	TN	37040-
632	Williams	Jenny	Alabama Department of Transportation	US DOT HIGHWAY-RAIL	329 Main Street	Montgomery	AL	36110-
633	Willis	Doug W.	Union Pacific Railroad - AAR	MPO	1100 John Overton Drive	Omaha	NE	68179
634	Wilson	Robert	CT - South Western Region MPO	MPO	888 Washington Boulevard	Stamford	CT	06901-
635	Wimmer	Bill	Union Pacific Railroad - AAR	MPO	1416 Dodge Street	Omaha	NE	68179
636	Wise	Henry	Brotherhood of Maintenance of Way Employees	MPO	3465 Smith Hill Road	Slaton	PA	18080
637	Wood	Robert	Sherman-Denison MPO	MPO	1117 Gallagher Dr., Suite 300	Sherman	TX	75090-
638	Woods	Beverly A.	MA - Norfrem Middlesex MPC	MPO	Gallagher Terminal, Floor 3B 115 Thorndike Street	Lowell	MA	01852-3308
639	Woods	Samuel	Lubbock MPO	MPO	Address 915 Main Street, Suite 706	Lubbock	TX	79401-

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640	Wooten	Richard	GA- Albany - Dougherty County Planning Comm.	MPO	240 Pine Ave., 3rd floor	Albany	GA	31702-
641	Worley	Paul	North Carolina DOT	AHB60 MEMBER	1566 Mail Service Center	Raleigh	NC	27699-1566
642	Wray	Michael	Virginia Department of Transportation	US DOT HIGHWAY-RAIL	1401 East Broad Street	Richmond	VA	23219-2000
643	Wyrick	Lon	Thurston Regional Planning Council	MPO	2404 Heritage Court SW, Suite B	Olympia	WA	98502-
644	Xu	Guan	Federal Highway Administration	AHB60 MEMBER	400 7th Street NEW	Washington	DC	20590-
645	Zackler	Mark	Missouri Dept. of Transportation	US DOT HIGHWAY-RAIL	P. O. Box 1216	Jefferson City	MO	65102-
646	Zaldivar	Fernando	Michigan Dept. of Transportation	US DOT HIGHWAY-RAIL	P. O. Box 30050	Lansing	MI	48909-
647	Zeigye	Tigist	DE- Wilmington Area Planning Council	MPO	860 Library Avenue, Suite 100	Newark	DE	19711-7146
648	Zeigler	Mike	FL- Okaloosa-Walton Trans. Planning Organization	MPO	3435 North 12th Avenue	Pensacola	FL	32503-
649	Zigenfus	Rose	IN- Evansville Urban Transportation Study	MPO	1 NW Martin Luther King Boulevard	Evansville	IN	47708-1833
650	Zumwalt	William	CA- Kings County Association of Governments	MPO	1400 West Lacey Boulevard	Hanford	CA	93230-



# **Appendix A.11**

## **USDOT FRA National Crossing Inventory Form with Instructions**

# U.S. DOT CROSSING INVENTORY FORM

DEPARTMENT OF TRANSPORTATION  
FEDERAL RAILROAD ADMINISTRATION (FRA)

**OMB No. 2130-0017**

<b>A. Initiating Agency</b> <input type="checkbox"/> Railroad <input type="checkbox"/> State	<b>B. Crossing Number (max. 7 char.)</b>	<b>C. Reason for Update</b> <input type="checkbox"/> Changes in Existing Data <input type="checkbox"/> New Crossing <input type="checkbox"/> Closed Crossing or Abandoned	<b>D. Effective Date (MM/DD/YYYY)</b>
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**Part I: Location and Classification Information**

1. Railroad Oper. Co. (code (max. 4 char.) or name)		2. State (2 char.)	3. County (max 20 char.)	
4. Railroad Division or Region (max. 14 char.)		5. Railroad Subdivision or District (max. 14 char.)		6. Branch or Line Name (max. 15 char.)
7. RR Milepost (max. 7 char.) (nnnnn.nn)				
8. RR I.D. No. (max. 10 char.)	9. Nearest RR Timetable Station (max. 15 char.) (optional)	10. Parent RR (max. 4 char.) (if applicable)	11. Crossing Owner (RR or Company name) (if applicable)	
12. City (max. 16 char.) (check one) <input type="checkbox"/> In <input type="checkbox"/> Near		13. Street or Road Name (max. 17 char.)		<b>STATE SUPPLIED INFORMATION</b>
14. Highway Type & No. (max. 7 char.)		15. ENS Sign Installed (1-800) <input type="checkbox"/> Yes <input type="checkbox"/> No		21. HSR Corridor ID (2 char.)
16. Quiet Zone <input type="checkbox"/> No <input type="checkbox"/> Partial <input type="checkbox"/> 24 hr <input type="checkbox"/> Unknown				22. County Map Ref. No. (max. 10 char.)
17. Crossing Type (choose one only) <input type="checkbox"/> Public <input type="checkbox"/> Private <input type="checkbox"/> Pedestrian		18. Crossing Position <input type="checkbox"/> At Grade <input type="checkbox"/> RR Under <input type="checkbox"/> RR Over		23. Latitude (max. 10 char., nn.nnnnnnn)
19. Type of Passenger Service <input type="checkbox"/> AMTRAK <input type="checkbox"/> AMTRAK & Other <input type="checkbox"/> Other <input type="checkbox"/> None		20. Average Passenger Train Count Per Day _____		24. Longitude (max. 11 char., nnn.nnnnnnn)
				25. Lat/Long Source <input type="checkbox"/> Actual <input type="checkbox"/> Estimated

26. Is There an Adjacent Crossing With a Separate Number?  
 Yes     No    If Yes, Provide Number \_\_\_\_\_ (7 characters)

**27. PRIVATE CROSSING INFORMATION**

<b>27.A. Category (check one)</b> <input type="checkbox"/> Farm <input type="checkbox"/> Residential <input type="checkbox"/> Recreational <input type="checkbox"/> Commercial <input type="checkbox"/> Industrial	<b>27.B. Public Access</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown	<b>27.C. Signs/Signals</b> <input type="checkbox"/> None <input type="checkbox"/> Signs <input type="checkbox"/> Signals Specify (max. 15 char.) _____ Specify (max. 15 char.) _____
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28.A. Railroad Use (max. 20 char.)	29.A. State Use (max. 20 char.)
28.B. Railroad Use (max. 20 char.)	29.B. State Use (max. 20 char.)
28.C. Railroad Use (max. 20 char.)	29.C. State Use (max. 20 char.)
28.D. Railroad Use (max. 20 char.)	29.D. State Use (max. 20 char.)

30. Narrative (max. 100 char.)  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

31. Emergency Contact (Telephone No.)	32. Railroad Contact (Telephone No.)	33. State Contact (Telephone No.)
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**MUST COMPLETE REMAINDER OF FORM FOR PUBLIC VEHICLE CROSSINGS AT GRADE**

**Part II: Railroad Information**

1. Number of Daily Train Movements

1.A. Total Trains _____	1.B. Total Switching Trains _____	1.C. Total Daylight Thru Trains (6 AM to 6 PM) _____	1.D. Check if Less Than One Movement Per Day <input type="checkbox"/>
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2. Speed of Train at Crossing    2.A. Maximum Time Table Speed (mph) \_\_\_\_\_  
 2.B. Typical Speed Range Over Crossing (mph) from \_\_\_\_\_ to \_\_\_\_\_

3. Type and Number of Tracks    Main \_\_\_\_\_    Other \_\_\_\_\_    If Other, Specify (max. 10 char.) \_\_\_\_\_

4. Does Another RR Operate a Separate Track at Crossing? <input type="checkbox"/> Yes    If Yes, Specify RR (max. 16 char.) _____ <input type="checkbox"/> No	5. Does Another RR Operate Over Your Track at Crossing? <input type="checkbox"/> Yes    If Yes, Specify RR (max. 16 char.) _____ <input type="checkbox"/> No
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## U.S. DOT CROSSING INVENTORY FORM

B. Crossing Number (max. 7 char.)	<b>PAGE 2</b>	D. Effective Date (MM/DD/YYYY)
-----------------------------------	---------------	--------------------------------

### Part III: Traffic Control Device Information

1. No Signs or Signals <input type="checkbox"/> Check if Correct		2. Type of Warning Device at Crossing – <b>Signs</b> (specify number of each)			
2.A. Crossbucks _____	2.B. Highway Stop Signs (R1-1) _____	2.C. RR Advance Warning Signs (W10-1) <input type="checkbox"/> Yes <input type="checkbox"/> No	2.D. Hump Crossing Sign (W10-5) <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown		
2.E. Pavement Markings <input type="checkbox"/> Stoplines <input type="checkbox"/> RR Xing Symbols <input type="checkbox"/> None		2.F. Other Signs (specify MUTCD type) Number _____ Specify Type (max. 10 char.) _____ Number _____ Specify Type (max. 10 char.) _____			
3. Type of Warning Device at Crossing – <b>Train Activated Devices</b> (specify number of each)					
3.A. Gates _____	3.B. Four-quadrant (or full barrier) Gates <input type="checkbox"/> Yes <input type="checkbox"/> No	3.C. Cantilevered (or Bridged) Flashing Lights Over Traffic Lane (number) _____ Not Over Traffic Lane (number) _____	3.D. Mast Mounted Flashing Lights (number) _____	3.E. Number of Flashing Light Pairs _____	
3.F. Other Flashing Lights Number _____ Specify Type (max. 9 char.) _____			3.G. Highway Traffic Signals (number) _____	3.H. Wigwags (number) _____	3.J. Bells (number) _____
3.K. Other Train Activated Warning Devices: (specify) (max. 9 char.) _____					
4. Specify Special Warning Device NOT Train Activated (max. 20 char.) _____			5. Channelization Devices With Gates <input type="checkbox"/> All Approaches <input type="checkbox"/> One Approach <input type="checkbox"/> None		
6. Train Detection <input type="checkbox"/> Constant Warning Time <input type="checkbox"/> DC/AFO <input type="checkbox"/> Motion Detectors <input type="checkbox"/> Other <input type="checkbox"/> None		7. Signalling for Train Operation: Is Track Equipped with Train Signals? <input type="checkbox"/> Yes <input type="checkbox"/> No		8. Traffic Light Interconnection/Preemption <input type="checkbox"/> Not Interconnected <input type="checkbox"/> N/A <input type="checkbox"/> Simultaneous Preemption <input type="checkbox"/> Advance Preemption	
9. Reserved For Future Use	10. Reserved For Future Use	11. Reserved For Future Use	12. Reserved For Future Use		

### Part IV: Physical Characteristics

1. Type of Development <input type="checkbox"/> Open Space <input type="checkbox"/> Residential <input type="checkbox"/> Commercial <input type="checkbox"/> Industrial <input type="checkbox"/> Institutional				2. Smallest Crossing Angle <input type="checkbox"/> 0° - 29° <input type="checkbox"/> 30° - 59° <input type="checkbox"/> 60° - 90°	
3. Number of Traffic Lanes Crossing Railroad _____		4. Are Truck Pullout Lanes Present? <input type="checkbox"/> Yes <input type="checkbox"/> No		5. Is Highway Paved? <input type="checkbox"/> Yes <input type="checkbox"/> No	
6. Crossing Surface (on main line) <input type="checkbox"/> 1. Timber <input type="checkbox"/> 2. Asphalt <input type="checkbox"/> 3. Asphalt and Flange <input type="checkbox"/> 4. Concrete <input type="checkbox"/> 5. Concrete and Rubber <input type="checkbox"/> 6. Rubber <input type="checkbox"/> 7. Metal <input type="checkbox"/> 8. Unconsolidated <input type="checkbox"/> 9. Other (Specify) _____					
7. Does Track Run Down a Street? <input type="checkbox"/> Yes <input type="checkbox"/> No		8. Nearby Intersecting Highway? <input type="checkbox"/> Less than 75 feet <input type="checkbox"/> 75 to 200 feet <input type="checkbox"/> 200 to 500 feet <input type="checkbox"/> N/A			Is it Signalized? <input type="checkbox"/> Yes <input type="checkbox"/> No
9. Is Crossing Illuminated? (street lights within approx. 50 feet from nearest rail) <input type="checkbox"/> Yes <input type="checkbox"/> No		10. Is Commercial Power Available? <input type="checkbox"/> Yes <input type="checkbox"/> No		11. Space Reserved For Future Use	

### Part V: Highway Information

1. Highway System <input type="checkbox"/> Interstate <input type="checkbox"/> Federal Aid, Not NHS <input type="checkbox"/> Nat. Hwy System (NHS) <input type="checkbox"/> Non Federal Aid		2. Is Crossing on State Highway System? <input type="checkbox"/> Yes <input type="checkbox"/> No		3. Functional Classification of Road at Crossing _____	4. Posted Highway Speed _____
5. Annual Average Daily Traffic (AADT) Year _____ AADT _____		6. Estimate Percent Trucks _____		7. Average Number of School Buses Over Crossing per School Day _____	

Public reporting burden for this information collection is estimated to average 15 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. According to the Paperwork Reduction Act of 1995, a federal agency may not conduct or sponsor, and a person is not required to respond to, nor shall a person be subject to a penalty for failure to comply with, a collection of information unless it displays a currently valid OMB control number. The valid OMB control number for this information collection is 2130-0017. All responses to this collection of information are voluntary. Send comments regarding this burden estimate or any other aspect of this collection, including suggestions for reducing this burden to: Information Collection Officer, Federal Railroad Administration, 1120 Vermont Ave., N.W., Washington, D.C. 20590.

**DRAFT****U.S. DOT CROSSING INVENTORY FORM INSTRUCTIONS  
(Form version dated 11/1/99)****1.1 Recording Instructions**

The U.S. DOT Crossing Inventory Form is one of several methods to submit crossing inventory changes. The previous form consisted of one page with four colored sheets. The new form will consist of two pages, normally printed back-to-back on white paper. The appropriate copies should be made by using photocopy reproduction on standard white paper. The following explains the process of filling out the new U.S. DOT Crossing Inventory Form, Form FRA F 6180.71.

**1.2 U.S. DOT Crossing Inventory Form Heading****A. Initiating Agency**

Enter a check mark in the appropriate box (for either Railroad or State) to indicate the initiator of the update, adding a new crossing, or closing a crossing.

**B. Crossing Number**

Enter a valid crossing inventory number (6-digits followed by an alpha character).

**C. Reason for Update**

Enter a check mark in the appropriate box to indicate the reason for submittal of the form:

- (1) change(s) in existing data,
- (2) adding a new crossing, or
- (3) crossing being closed or abandoned

**D. Effective Date**

Enter the date (MM/DD/YYYY) the change was completed or put into effect. Ideally, all public, private and pedestrian crossings, including grade-separated, should be updated to at least verify that the crossings still exist. A current effective date should be indicated. If it is verified that there are no changes in the data and the crossing still exists, an effective date of January 1 of the current year (e.g., 01/01/1999) should be indicated.



## 1.3 Part I: LOCATION AND CLASSIFICATION INFORMATION

### Item 1. Railroad Operating Company

Enter the valid railroad code for the "operating" railroad company, i.e., the railroad that operates train movements over the crossing. The operating railroad will normally be the reporting railroad, but may or may not own and maintain the roadbed, tracks, and signal system controlling the crossing. If the operating railroad company is not the owner of the track, it is suggested the owner's name be entered in Item 6, *Branch or Line Name* and/or Item 11, *Crossing Owner*. Valid railroad codes can be obtained or will be assigned by FRA.

NOTE: Crossings are to be assigned to the operating railroad, that is, the identity of the railroad company that operates over the trackage where the crossing is located and not necessarily to the owner of the track or property itself, unless it is also the operating railroad. Thus, designations such as "XYZ Corporation" should be changed to the name of the railroad that is actually operating on the specific line since they are the operating railroad.

When this data is processed, a maximum of 4 characters will be allowed. If the valid Railroad or Company Code is not known, and instead the name is provided, FRA will match the name to the valid code and will enter that code. If the name cannot be matched to a code, the report cannot be processed. Either a new code will be assigned or the form will be returned to the Initiating Agency for correction.

### Item 2. State

Enter the abbreviation for the name of the State where the crossing is located. If the crossing is located on a State boundary so that parts of the crossing lie in two or more States, agreement must be made between the two States as to which shall claim the crossing for inventory record purposes. When a crossing is located on a State line, it is suggested that the crossing be inventoried by and in the State that is south or east geographically.

### Item 3. County

Enter the name of the county where the crossing is located. If the crossing is on a county line so that parts of the crossing lie in two or more counties, a decision must be made to place it in one county only. When a crossing is located on a county line, it is suggested that the crossing be inventoried in the county that is south or east geographically.

**Item 4. Railroad Division or Region**

Enter the name of the division, region, or major district, if the railroad system is divided into such groups.

**Item 5. Railroad Subdivision or District**

Enter the name of the sub-division or other classification, if the railroad system is divided into such groups.

**Item 6. Branch or Line Name**

Enter the name of the line or branch as used by the railroad to describe this segment of track. If the track is an industry lead, industry spur, yard lead, wye, etc., enter the name of the track or industry.

**Item 7. Railroad Milepost**

Enter the railroad milepost number in miles and hundredths of miles (53 feet is approximately 1/100 mile.) Enter the number with the decimal point (nnnn.nn).

NOTE: Because of data-retrieval anomalies, alphabetical letters in the milepost field need to be avoided.

**Item 8. RR I.D. No.**

Enter the railroad identification of the crossing or the track line segment number. If a crossing has an identification number other than the DOT number, such as a State agency number (e.g., a Public Utility Commission (PUC) assigned number), enter that number. However, with the expansion of the data fields, State PUC's should now consider using one of the "State Use" fields (Items 29.A.-D.; preferably Item 29.A.) for the State PUC number.

**Item 9. Nearest RR Timetable Station**

This is now an optional field. Enter the name of the nearest timetable station of the operating company.

**Item 10. Parent RR**

If applicable, enter the code for the parent railroad (that is, the railroad which is parent to the railroad entered in Part I, Item 1, *Railroad Operating Company*. This must be a valid railroad code.

**Item 11. Crossing Owner (Railroad or Company name)**

If applicable, enter the code for the owner of the crossing. This must be a valid railroad or company code, and if unknown, it can be obtained from FRA.

When this data is processed, a maximum of 4 characters is allowed. If the valid Railroad or Company Code is not known, and the name is instead provided. An attempt will be made to match the name to its valid code, and that code will be entered. If the name cannot be matched to a code, the report cannot be processed. Either a valid code will be assigned or the form will be returned to the Initiating Agency for correction.

**Item 12. City**

Enter a check mark to indicate if the crossing is located "In" or "Near" the city to be specified. If the crossing is not within the boundaries of a city, town, or village, enter a check mark in the box for "Near."

Enter the name of the city, town, or village where the crossing is located (maximum of 16 characters) which must be a valid location within the State. If "In" is checked, the entered city name must be located in the county specified in Part I, Item 3, *County*. If the crossing is on a city line so that parts of the crossing lie in two or more cities, identify only one city.

**Item 13. Street or Road Name**

Enter the name of the highway or street, if the highway or street has a name. If it is a private roadway and it has a name, enter the name of the road or the owner's name, otherwise just enter "private."

**Item 14. Highway Type and No.**

Enter the type of highway such as Interstate (I), U.S. numbered (US), State (ST), county (C), local (L), etc., and number of the highway, if it has one. Please abbreviate, as I-95, US-1, ST-234, C-2096, etc. The number of the highway should be posted on the highway or found on State or county maps. If there is more than one number, enter the most important route, or all the numbers.

**Item 15. ENS Sign Installed (1-800)**

If there is an Emergency Notification System (ENS) sign installed at the crossing, check the box preceding "Yes." Otherwise, check the box preceding "No."

The ENS sign may be any sign posted at the crossing that displays a phone number (e.g., a 1-800 number) that the public, motorists, State Highway, Law Enforcement, and others can call to report problems, signal malfunctions, or emergencies at a highway-rail crossing. This sign will also usually display the Crossing Number for the crossing.

#### **Item 16. Quiet Zone**

Enter a check in the appropriate box to indicate whether or not a whistle ban is in effect for the crossing. If a whistle ban is in effect, indicate if it is for 24 hours per day or only a partial day (usually 10 p.m. to 6 am). This item must be completed for public, private, and pedestrian crossings.

Note: The "Whistle Ban" NPRM (expected release is Fall 1999) will provide for a whistle (horn) ban area where a quiet zone can be established.

#### **Item 17. Crossing Type**

Enter a check in the appropriate box to indicate the type of crossing. Valid choices are (1) Public, (2) Private, or (3) Pedestrian.

#### **Item 18. Crossing Position**

Enter a check in the appropriate box for the position of the railroad relative to the crossing. Valid choices are (1) At Grade, (2) Railroad Under, or (3) Railroad Over.

#### **Item 19. Type of Passenger Service**

If there is passenger service over the crossing, enter a check in the appropriate box to indicate the type(s) of passenger trains using this crossing. Valid values are:

- **AMTRAK** only
- **AMTRAK and Other** (commuter, tourist, etc.)
- **Other**, including commuter, tourist, etc.
- **None** (no passenger service)

#### **Item 20. Average Passenger Train Count Per Day**

Enter the average number of passenger trains using this crossing, per day, on a typical operating day. The value cannot exceed the total train count in Part II, Item 1, *Typical Number of Daily Train Movements, I.A. Total Trains*. If the passenger type in Part I, Item 19, *Type of Passenger Service* is "None," then the passenger train count should be 0.

**Item 21. HSR Corridor ID (State Supplied Information)**

Enter the High Speed Rail (HSR) Corridor Identifying Code from the pre-identified list of corridor codes (if in question, contact FRA) if the crossing is located on such a corridor. This field is used to identify the "Section 1010" or "Section 1103" high-speed rail corridor on which the crossing is located.

FRA will provide the HSR ID and will assign a code for each corridor. Once assigned, States can modify records to add or delete crossings (e.g., when deleting a crossing, a State can remove code if crossing is not on the corridor).

**Item 22. County Map. Ref. No. (State Supplied Information)**

Enter the county map identification or other reference number provided by the highway agency to specifically identify the crossing on the street and road system. If it is not available, leave this entry blank.

**Item 23. Latitude (State Supplied Information)**

Enter the crossing latitudinal coordinate as measured at the center of the crossing. This field, along with Longitude, is used to identify the crossing location using a standardized GPS location point. Latitude should be entered in decimal format (nn.nnnnnnn).

In order to convert latitude from degrees, minutes, seconds to decimal form:

$$\text{Latitude in Decimal Format} = \text{Degrees} + (\text{Minutes divided by } 60) + (\text{Seconds divided by } 3600)$$

**Item 24. Longitude (State Supplied Information)**

Enter the crossing longitudinal coordinate as measured at the center of the crossing. This field, along with Latitude, is used to identify the crossing location using a standardized GPS location point. Longitude should be entered in decimal format (nnn.nnnnnnn). It will be processed as a negative value.

In order to convert longitude from degrees, minutes, seconds to decimal form:

Longitude in Decimal Format = Degrees + (Minutes divided by 60) + (Seconds divided by 3600)

**Item 25. Lat/Long Source (State Supplied Information)**

Enter a check in the appropriate box to indicate the source of the Latitude and Longitude coordinates provided, “Actual” or “Estimated.” Actual values are those where GPS measurements are taken at the crossing or determined by some other positive identification method. Otherwise, the values are indicated as “Estimated.” Latitude and Longitude values, in general, should be measured at the center of the highway-rail crossing.

Note: In 1997, FRA hired a contractor to determine the latitude and longitude (by interpolation) of about 80% of the crossings in the Nation. In January 1999, these values were inserted into the National file and are shown as “Estimated.”

**Item 26. Is there an Adjacent Crossing with a Separate Number?**

Enter a check in the appropriate box to indicate whether or not there is an adjacent crossing with a separate number. If there is, enter the valid crossing number (6-digits followed by an alpha character).

**Item 27 PRIVATE CROSSING INFORMATION**

When the type of crossing is **Private**, this item must be completed.

**Item 27.A. [Private Crossing] Category**

Enter a check in the box which best describes the usage of the private crossing based on the following categories:

**Category Descriptions:**

**Farm.** A farm crossing is any crossing used for the movement of farm motor vehicles, farm machinery or livestock in connection with agricultural pursuits, forestry, or other land-productive purposes.

**Residential.** A residential crossing is any crossing used to provide vehicular access for residence owners.

**Recreational.** A recreational crossing is any crossing used to provide access to recreational areas.

**Industrial.** An industrial crossing is any crossing used to provide access to industrial plant facilities or other industrial areas.

**Commercial.** A Commercial crossing is any crossing used to provide access to privately owned commercial facilities that openly invite and solicit the general public as patrons (e.g., shopping centers and stores).

**Item 27.B. [Private Crossing] Public Access**

Enter a check in the box to indicate “Yes” if the private crossing is open to public access or “No” if it is not, or “Unknown” if it is not known.

Examples where “Yes” is appropriate are shopping centers, certain residential areas, fairgrounds, parks, schools, libraries, hospitals, clinics, airports, bus terminals, beaches, piers, boat launching ramps, and recreational facilities.

**Item 27.C. [Private Crossing] Signs/Signals**

Enter a check in the appropriate box(s) for the type(s) of crossing warning device. If signs and/or signals exist, enter a brief description in the spaces provided.

**Items 28.A., 28.B., 28.C., and 28.D. Railroad Use**

The railroad may enter text or data of its choice in these fields. No editing will be performed on these fields.

**Items 29.A., 29.B., 29.C., and 29.D. State Use**

The State may enter text or data of its choice in these fields. No editing will be performed on these fields. It is suggested that a State which has a separate PUC number for a crossing may wish to use one of the Item 29, *State Use*, fields for this purpose. (For those States that have used the RR I.D. field for this in the past, FRA will move that data to Item 29 if requested.)

**Item 30. Narrative**

Enter any narrative comments desired in this field. No editing will be performed on this field.

**Item 31. Emergency Contact (Telephone No.)**

Enter the telephone number (area code and phone number) for the Emergency Notification System Contact (e.g., Law Enforcement, Railroad Emergency Contact, or State Emergency Contact) associated with the crossing. Normally, this will be the ENS telephone number posted at the crossing or along the railroad branch line. This should be a 24-hour number that can be called to speak with an Emergency Notification Center who can send emergency responder(s) to the crossing in the event of problems, signal malfunctions, or other emergencies at the crossing. (This might be performed as a mass update by contacting FRA.)

**Item 32. Railroad Contact (Telephone No.)**

Enter the telephone number (area code and phone number) of the railroad contact associated with the crossing. This would normally be the Railroad Inventory Contact or Public Project Coordinator. (This can be performed as a mass update by contacting FRA.)

**Item 33. State Contact (Telephone No.)**

Enter the telephone number (area code and phone number) of the State highway contact associated with the crossing. This may be the State Inventory Contact or the DOT Engineering Contact responsible for crossing improvement projects. (This can be performed as a mass update by contacting FRA.)

<p>NOTE: If the crossing is Public at-Grade, Parts II, III, and IV <b>must</b> be completed before the data can be entered into the file. For Private at-Grade crossings, complete or partial submittals are optional, but all submitted information will be entered into the file.</p>
---

**1.4 Part II: RAILROAD INFORMATION**

**Item 1. Typical Number of Daily Train Movements**

**Item 1.A. Total Trains**

**Item 1.B. Total Switching Trains**

**Item 1.C. Total Daylight Thru Trains (6 AM to 6 PM)**

Enter the number of the train movements through the crossing and the number of switching movements at the crossing, as follows:



**Total Trains** are the total of the number of through trains and switching trains (per day) through the crossing during normal railroad operating periods.

**Total Switching Trains** are the number of switching trains through the crossing (per day) during normal railroad operating periods.

**Total Daylight Thru Trains** are the number of through trains through the crossing between the hours of 6 AM and 6 PM.

Typical number of daily train movements means the normal or average daily train movements. "Through Trains" are trains whose primary responsibility is to move cars over the road, and there may be a limited number of pickups and setouts along the route. Classify all others, (i.e., locals, industrial runs, switch engine) as switching movements. Include the total number of the train movements both for the reporting "operating" railroad and for any other railroad operating over the crossing.

**Item 1.D. Check if Less Than One Movement Per Day**

Enter a check in the box if train frequency is less than one train per day.

**Item 2. Speed of Train at Crossing**

**Item 2.A. Maximum Timetable Speed**

Enter the maximum timetable speed in miles per hour (mph). This field must not be less than the value in Item 2.B, *Typical Speed Range Over Crossing*.

**Item 2.B. Typical Speed Range Over Crossing**

Enter the typical minimum speed ("from") over the crossing in miles per hour (mph). This must be less than the maximum timetable speed in Item 2.A.

Enter the typical maximum speed ("to") over the crossing. This cannot be greater than the maximum timetable speed in Item 2.A. and cannot be less than the typical minimum speed range.

**Item 3. Type and Number of Tracks**

Enter the number of main line tracks and specify the number and type of any "Other" tracks. A track is considered main if through trains operate on the track. If "Other," specify.

**Item 4. Does Another RR Operate a Separate Track at Crossing?**

Enter a check mark in the appropriate box to indicate if another railroad operates a separate track at the crossing. If “Yes,” enter the FRA railroad code for all railroads that operate a separate track within the warning devices at the crossing. Up to four railroad codes, in codes of up to four characters each, may be entered in this field.

**Item 5. Does Another RR Operate Over Your Track at Crossing?**

Enter a check mark in the appropriate box to indicate if another railroad operates over the track at the crossing. If Yes, enter the FRA railroad code for all railroads that operate trains over the track at the crossing. Up to four railroad codes, in codes of up to four characters each, may be entered in this field.

**1.5 Part III: TRAFFIC CONTROL DEVICE INFORMATION**

**Item 1. No Signs or Signals**

Enter a check to indicate if no signs or signals are present. If no signs or signals are present, there is no need to complete Items 2 or 3.

**Item 2. Type of Warning Device at Crossing - Signs.**

NOTE: If more than one type of warning device is present, indicate all applicable types of warning device(s). Enter a "9" where the number is 9 or greater. Provide short descriptions of "Other" devices in the appropriate spaces.

**Item 2.A. Crossbucks**

Enter the number of masts with crossbucks, not a count of all crossbuck signs. Two or more crossbucks mounted on a single mast are counted as one crossbuck. Include in the count all masts with crossbucks, without making a distinction as to the reflectivity type.

**Item 2.B. Highway Stop Signs (R1-1)**

Enter the number of Standard Highway Stop Signs (this is the MUTCD specified Stop Sign, R1-1). A standard highway stop sign is red with white letters and has eight sides as defined in the Manual on Uniform Traffic Control Devices (MUTCD).

Any other non-standard MUTCD stop signs should be listed in the field for "Other Signs."

**Item 2.C. RR Advance Warning Signs (W10-1)**

Enter a check in the appropriate box to indicate the existence of advance warning signs along the highway approaches that are in compliance with the MUTCD (normally, would be on both sides).

**Item 2.D. Hump Crossing Sign (W10-5)**

Enter a check in the appropriate box to indicate whether or not high profile hump surface signs are present at the crossing or such are scheduled for installation in the immediate future. The standard Advance Warning Signs for High-Profile Crossings is identified in the MUTCD as W10-5. Non-standard warning signs or advisories should be listed in "Other Signs."

**Item 2.E. Pavement Markings**

Enter a check in the appropriate box for each type of pavement marking present that conforms to the MUTCD. If both stop lines and RR crossing symbols are present, check both boxes. If neither stop lines nor RR crossing symbols are present, check "None."

**Item 2.F. Other Signs**

Enter the number and specify the type of any other passive signs at crossing. Specify MUTCD Type. Non-standard stop signs should also be reported in this item.

**Item 3. Type of Warning Device at Crossing - Train Activated Devices**

**Item 3.A. Gates**

Enter the count of gates. Include in the count all gates without making a distinction as to the color or reflectivity of the gate or arms.

**Item 3.B. Four-quadrant (or full barrier) Gates**

Enter a check in the appropriate box to indicate whether or not four-quadrant (or full barrier) gates are present at the crossing. Full barrier gates apply in the case of 1-way streets or where the gate arms reach across the entire roadway.

**Item 3.C. Cantilevered (or Bridged) Flashing Lights**

Enter the number of cantilevered (or bridged) flashing lights in the appropriate block. Separate cantilevered flashers from those over traffic lanes and those not reaching the roadway (over only parking lanes, turnout lanes, or shoulders). Count individual cantilever units; do not count the flasher head pairs mounted on the units.

**Item 3.D. Mast Mounted Flashing Lights**

Enter the number of mast mounted flashing light units. Count all flashers on a single mast as one flasher. Do not count flasher heads or a pair of flashing lights separately.

**Item 3.E. Number of Flashing Light Pairs**

Enter the total number of pairs of flashing lights mounted on signal masts in Item 3.D. and on cantilever (or bridge) units in Item 3.C. and/or on other masts or poles.

**Item 3.F. Other Flashing Lights**

Enter the number of other flashing lights not in accordance with the MUTCD. Specify type.

**Item 3.G. Highway Traffic Signals**

Enter the number of highway traffic signals (red-yellow-green signals) that are train activated and which control street traffic over the crossing. Do not count highway signals controlling a nearby intersection even if they are interconnected with the crossing devices.

**Item 3.H. Wigwags**

Enter the number of wigwag signals.

**Item 3.J. Bells**

Enter the number of all bells, if present, that are either alone or in conjunction with other train activated warning devices.

**Item 3.K. Other Train Activated Warning Devices**

List any train activated devices not otherwise specified, such as an arrester net, dragnet or other new technology.

#### **Item 4. Specify Special Warning Device NOT Train Activated**

Enter the type of any special warning device which is not train activated. Examples of special warning devices not train activated are:

- a. Manually operated signals and/or gates
- b. Train crew flagging the crossing
- c. Watchmen
- d. Floodlights (may be train activated)

For watchmen and for manually operated gates, the number of hours daily in effect should also be indicated. For floodlighting, the number of masts with lights should be reported. Only floodlighting which is distinctive from other ordinary street lighting in intensity, light distribution, focus or color is to be reported.

#### **Item 5. Channelization Devices With Gates**

Enter a check in the appropriate box to indicate whether or not there are channelized devices (i.e., median barriers) with gates at the crossing. If channelized devices are present, indicate if they are on all approaches or just one approach.

#### **Item 6. Train Detection**

Enter a check to indicate type of train detection used at the crossing. Choices are:

- Constant Warning Time (or Predictors)
- Motion Detectors
- DC/AFO
- Other
- None

The following apply to active crossings only: Constant Warning Time, Motion Detectors, DC/AFO, or Other. If the crossing is not active, "None" should be checked.

**NOTE:** This item, *Train Detection*, replaces Part II, Item 8, *Does Crossing Signal Provide Speed Selection for Trains?* (Yes, No, N/A) that was on the previous version of the inventory form (Form FRA F 6170.71 (8-84)). Data in the system provided for *Does Crossing Signal Provide Speed Selection for Trains?* will be converted (on or before December 31, 1999) as follows:

<b>Speed Selection (Previous Values)</b>	—>	<b>Train Detection (Converted Values)</b>
Yes	—>	CWT
No	—>	DC/AFO
N/A	—>	None

None of the data will be converted to Motion Detectors or Other.

**Item 7. Signalling for Train Operation: Is Track Equipped with Train Signals?**

Enter a check to indicate whether the track has train operation or interlocking signals to control train operations.

**Item 8. Traffic Light Interconnection/Preemption**

Enter a check in the appropriate box to indicate the type of crossing interconnection/preemption.

**DEFINITIONS:**

The following are definitions for highway and rail signal interconnections. The definitions which are in italics are those defined by the Technical Working Group (TWG) on Rail-Highway Intersections:

1. ***Interconnection:*** *The electrical connection between the railroad active warning system and the traffic signal controller assembly for the purpose of preemption.*

Interconnection consists of an electrically connected control circuit at a highway-rail intersection which has railroad active warning devices utilizing a supervised closed-circuit principle activated by the approach or presence of a train and which is used to preempt the normal operation of a highway traffic signal.

2. ***Preemption:*** *The transfer of the normal operation of traffic signals to a special control mode.*

Preemption is the activity when, as a result of a signal received from the railroad active warning device system, the normal operation of a highway traffic signal is interrupted and transferred to a specific programmed sequence.

3. ***Simultaneous Preemption:*** *The notification of an approaching train is forwarded to the highway traffic controller unit or assembly and the railroad active warning devices at the same time.*

Simultaneous Preemption is the activity when the highway traffic signal controller receives notice from the interconnection control circuitry and is activated at the same time as the railroad active warning system. Usually, this will be used to prohibit highway vehicular traffic from traversing through the crossing intersection.

4. ***Advanced Preemption:*** *The notification of an approaching train is forwarded to the highway traffic controller unit or assembly by the railroad equipment for a period of time prior to activating the railroad active warning devices.*

Advance Preemption is the activity when the highway traffic signal controller receives notice from the interconnection control circuit before the railroad active warning system is activated (usually 20-25 seconds before train arrival) to interrupt the signal's normal operation to begin its specific programmed sequence. Usually, this will be used to move the highway vehicular traffic through a storage area between the highway-rail intersection and the highway-highway intersection well before the railroad active warning devices start to operate to clear the crossing and eliminate the potential of vehicular entrapment on the crossing.

## **Items 9-12. Reserved for Future Use**

These items are reserved for future use. No input required.

## **1.6 Part IV: PHYSICAL CHARACTERISTICS**

### **Item 1. Type of Development**

Enter a check in the appropriate box which best describes the predominant type of development in the vicinity (up to 1000 feet) of the crossing based on the following categories:

1. **Open Space.** Sparsely or undeveloped, lightly populated, or agricultural.
2. **Residential.** Built-up residential area.
3. **Commercial.** Retail stores and businesses, offices, personal services.

4. **Industrial.** Manufacturing, construction, heavy products, factories, and warehouses.
5. **Institutional.** Schools, churches, hospitals, parks, and other community facilities.

### **Item 2. Smallest Crossing Angle**

Enter a check in the appropriate box which most closely describes the smallest angle between the highway and the track. (The angle may be estimated by eye or with a simple device, such as a protractor.)

### **Item 3. Number of Traffic Lanes Crossing Railroad**

Enter the number of through traffic lanes crossing the track. Do not include shoulders or lanes that may be used for parking.

### **Item 4. Are Truck Pullout Lanes Present?**

Enter a check in the appropriate box for special added lanes provided to accommodate commercial vehicles which are required to stop at the crossing.

### **Item 5. Is Highway Paved?**

Enter a check in the "Yes" box if the highway is paved with material on which pavement markings can be effectively maintained. Enter a check in the box preceding "No" if the highway surface is gravel, dirt, or has a surface treatment on which markings cannot be maintained.

### **Item 6. Crossing Surface (on main line)**

Enter a check in the appropriate box which most closely fits one of the following descriptions. If there are multiple tracks which have different types of surfaces, indicate the lower grade surface material on the Inventory Form.

1. **Timber.** Includes Sectional Treated Timber and Full Wood Plank:

**Sectional Treated Timber** is prefabricated units approximately 8 feet in length of treated timber individually installed and removable for maintenance and replacement purposes. **Full Wood Plank** is a timber surface which covers the entire crossing area above the cross-ties, made of ties, boards, bridge ties, etc.

2. **Asphalt.** Asphalt surface over the entire crossing area.



3. **Asphalt and Flange.** Asphalt surface in the area between flange timber planks or other material forming flangeway openings which may include the use of rubber.

4. **Concrete.** Includes Concrete Slab and Concrete Pavement.

**Concrete Slab** is precast concrete sections which are usually individually installed and removable for maintenance and replacement purposes. **Concrete Pavement** is a concrete surface which is continuous over the track area and is not removable except by destruction of the surface.

5. **Concrete and Rubber.** An installed crossing surface which consists of both concrete and rubber materials.

6. **Rubber.** Preformed rubber sections which are usually individually installed and removable for maintenance and replacement purposes.

7. **Metal.** Includes Metal Sections and Other Metal.

**Metal Sections** are sections of steel or other metal which are usually individually installed and removable for maintenance and replacement purposes. **Other Metal** includes other metal materials which are usually not removable in sectional units which provide complete coverage of the crossing area within the track.

8. **Unconsolidated.** Ballast or other unconsolidated material placed over crossties, with or without planks, on one or both sides of the running rails.

9. **Other (Specify).** Surfaces other than the previously described surfaces and would include structural foam, plastic, "high-tech," etc.

**Note:** On or before December 31, 1999, the Crossing Surface data will be converted as follows:

**New Categories**

1. Timber
2. Asphalt
3. Asphalt and Flange
4. Concrete
5. Concrete and Rubber
6. Rubber
7. Metal
8. Unconsolidated
9. Other (Specify)

**Old Categories**

- Sectional Treated Timber (1) and Full Wood Plank (2)  
Asphalt (3)  
(New)  
Concrete Slab (4) and Concrete Pavement (5)  
(New)  
Rubber (6)  
Metal Sections (7) and Other Metal (8)  
Unconsolidated (9)  
Other (0)

**Item 7. Does Track Run Down a Street?**

Enter a check in the appropriate box for whether the crossing involves a railroad track which is parallel to and within a street or highway.

**Item 8. Nearby Intersecting Highway?**

Enter a check in the appropriate box for whether the street or highway at this crossing is intersected by another street or highway and at what approximate distance from the crossing.

Valid values are:

Yes, within 500 feet = Less than 75 feet; 75 to 200 feet; 200 to 500 feet  
No, or greater than 500 feet = N/A

**Note:** Conversion of data previously entered will be:

Yes -> Less than 75 feet  
No -> N/A

**Is it Signalized?**

Enter a check mark (Yes or No) to indicate if the nearby intersecting highway contains traffic signals.

**Item 9. Is Crossing Illuminated?**

An Illuminated Crossing is defined as when overhead street lighting provides reasonable illumination of trains present at the crossing and is within approximately 50 feet of the crossing. If street lights are present within 50 feet of the nearest rail, the “Yes” box should be checked. Since street lamp light-intensity can vary, sufficient lighting may be present for street lights located up to 100 feet from the crossing.

**Item 10. Is Commercial Power Available?**

Enter a check to indicate if there is commercial electric power available within 500 feet of the crossing.

**Item 11. Space Reserved for Future Use**

This item is reserved for future use. No input is required.

## 1.7 Part V: HIGHWAY INFORMATION

### Item 1. Highway System

Enter a check for the correct highway system code.

The Highway System Codes for the National Highway-Rail Crossing Inventory File were revised as a result of the 1991 Intermodal Surface Transportation Efficiency Act, (ISTEA) Section 1006. ISTEA required the redefinition of the National Highway System (NHS) which is included in the total Federal-Aid Highway (FAH). The three classifications are: (1) National Highway System, (2) Other Federal-Aid Highway, and (3) Non-Federal-Aid. The National Crossing Inventory File uses this classification, but subdivides the National Highway System into "Interstate" and "Other NHS."

The Highway System Codes are listed in the following table.

Code	Definition	Included
1	Interstate National Highway System	Interstate, rural, and urban
2	Other National Highway System	Other urban and rural principal arterial, Non Interstate
3	Other Federal-Aid Highway, Not NHS	Rural major collector and higher category, or urban collector and higher category, not part of NHS
8	Non Federal Aid	Local rural roads, rural minor collectors, and local urban city streets or any other non-Federal-Aid roadway

Table 1-1. Highway System Codes

**Item 2. Is Crossing on State Highway System?**

Enter a check in the appropriate box to indicate whether (or not) the crossing is on a State highway system.

If “Yes” is indicated, be sure that the *Highway Type and Number* are entered in Part I (Item 14).

**Item 3. Functional Classification of Road at Crossing**

Enter the appropriate code for the highway functional classification which the State has determined in accordance with the Federal-Aid Highway Program Definitions. The current functional classification codes are listed in Table 1-2.

Category	Codes	Functional Classification
Rural	01	Interstate
Rural	02	Other principal arterial
Rural	06	Minor arterial
Rural	07	Major collector
Rural	08	Minor collector
Rural	09	Local
Urban	11	Interstate
Urban	12	Other freeway and expressway
Urban	14	Other principal arterial
Urban	16	Minor arterial
Urban	17	Collector
Urban	19	Local

Table 1-2. Functional Classification Codes

NOTE: The tens digit for the Rural codes must be "0" and for Urban must be "1".

**Item 4. Posted Highway Speed**

Enter the posted highway speed at the crossing. The “Posted Speed” is defined as the assigned roadway speed limit. Where no speed signage exists, the State’s statutory speed limit would apply.

**Item 5. Annual Average Daily Traffic (AADT)**

Enter the annual average daily traffic (total both directions) based on available traffic information. A reasonable estimate of the AADT is acceptable if actual traffic counts are not readily available. Enter the year which matches the AADT data supplied.

**Item 6. Estimate Percent Trucks**

Enter the estimated percentage of trucks in the traffic stream.

**Item 7. Average Number of School Buses Over Crossing per School Day**

Enter the daily average number of scheduled school buses passing over the crossing on a normal school day. Back and forth counts as 2.



# **Appendix A.12**

## **CANADA: Grade Crossing Regulation (Draft) December 3, 2002**



# Railway/Road Grade Crossing Policy

October 2000





# RAILWAY SAFETY ACT

## RAILWAY/ROAD GRADE CROSSING POLICY

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### Table of Contents

- 1) Policy objective
  - 2) Policy background
  - 3) Authority
  - 4) Policy requirements
  - 5) Role and responsibilities
  - 6) Monitoring
  - 7) Inquiries
- 

### 1. Policy objective

The objective of the crossing policy is to clarify Transport Canada's (TC) role and responsibilities concerning railway/road crossings at grade.

**(NOTE:** The railway/road grade crossing regulation will specify the roles of other parties concerned with road crossings.)

### 2. Policy background

Historically, federal government agencies have been significantly involved with the day to day responsibility to ensure safety at railway road crossings. The basis for this was the requirement to issue orders for virtually all aspects of the crossings, including construction details and financial responsibilities. In practice, the federal agencies usually took the lead in involving the railways and road authorities in discussions and decisions on crossing issues prior to issuance of an "Order". A Canadian Transport Commission (CTC) "Order" relating to crossing works was, in both origin and effect, a legal and binding record of a decision taken by consensus, or in the absence of consensus, by the CTC itself.

The Railway Safety Act (RSA) of 1989 and the amendments which came into force on June 1<sup>st</sup> 1999 redefined roles by implicitly placing crossing safety responsibilities on the railways and the road authorities. This policy reflects the objectives of Section 3 of the RSA, which are to:

- a) *promote and provide for the safety of the public and personnel, and the protection of property and the environment, in the operation of railways;*
- b) *encourage the collaboration and participation of interested parties in improving railway safety;*
- c) *recognize the responsibility of railway companies in ensuring the safety of their operations; and*
- d) *facilitate a modern, flexible and efficient regulatory scheme that will ensure the continuing enhancement of railway safety. “*

Transport Canada’s national transportation strategy calls for a transportation system that is safe, smart, strategic, and sustainable — the top priority being safety. The Safety and Security Strategic Plan (see next page) defines how the department intends to contribute to the safety and security of Canada’s transportation system. The railway/road crossing policy, through its requirements, will support and fulfill the mandate of the Strategic Plan.

## THE SAFETY & SECURITY STRATEGIC PLAN OVERVIEW

<b>Where we are headed- Our Vision</b>
<i>The safest transportation system in the world</i>
<b>The impact we want to have - Our intended Outcomes</b>
<i>Protection of life, health, environment and property</i> <i>Public confidence in the safety &amp; security of our transportation system</i>
<b>How we get there - Our Mission</b>
To further advance the safety and security of an efficient, accessible and sustainable transportation system through:
<i>Awareness &amp; Education</i> <i>Monitoring &amp; Enforcement</i> <i>Establishment and Implementation of Policies &amp; Rules</i>
<b>What we want to achieve</b>
<i>Safe Practices   Risk Reduction   Stakeholder Awareness</i> <i>Positive External and Internal Impact   Effective Intervention</i>
<b>How we do it</b>
<i>Continue to develop a new safety culture</i> <i>Build constructive relationships internally and with stakeholders</i> <i>Implement a systematic approach to risk management</i> <i>Improve our tools, practices &amp; techniques</i> <i>Adopt a systems approach to human resources management</i> <i>Broker international best practices</i>

### 3. Authority

Under subsection 2.(2) of the RSA, the federal government has jurisdiction in “*respect of transport by railways to which Part III of the Canada Transportation Act applies*”. In general, this means that TC has jurisdiction over companies which have a certificate of fitness issued by the Canadian Transportation Agency (CTA). This jurisdiction applies to all road crossings on rail lines under federal jurisdiction.

The authority to regulate engineering standards of road crossings is provided in Section 7 of the RSA. The authority to regulate the operation and maintenance of crossing works is provided under subsection 18.2 of the RSA. Under subsection 24.(1) this authority respecting road crossings is not limited to the physical crossing itself but also extends to vehicles, pedestrians, road approaches and adjoining lands. Jurisdiction includes items such as approach grades, signage, nearby intersections, removal of sight line obstructions, and under subsection 31.(2.1), further includes powers respecting the method of operating a vehicle over a road crossing.

The jurisdiction of the federal government is intended only to extend to those aspects which have a direct relationship to the safety of the road crossing, respecting the jurisdiction of the Provinces for the design, construction and maintenance of roads within the Province.

### 4. Policy requirements

To maximize the department’s impact on transportation safety, the focus of this policy is to ensure a positive approach to railway/road crossing safety through awareness of regulatory requirements, education through guidance, counselling and advice, and compliance monitoring to ensure compliance of regulated parties. Departmental activities to fulfil this policy will be accommodated in the Rail Safety Business Plan, in accordance with approved resources.

The policy of Transport Canada is to:

- 1) Maintain and enhance public safety by requiring through regulation or other means permitted under the RSA, uniform safety standards for all farm, private and public railway/road crossings at grade. The regulation will establish responsibilities for implementation of the standards by all federally regulated railways, 2,500 road authorities and many individuals and companies that have railway/road crossings under federal jurisdiction.

- 2) Promote awareness of regulatory requirements and education through guidance, counselling and advice to railways, road authorities, municipalities, police departments, consultants and other interested and affected parties concerning railway/road crossing safety.
- 3) Maintain a compliance monitoring program including surveillance, site inspections and audits to assess regulatory compliance and ensure effective intervention.
- 4) Support, initiate and conduct railway/road crossing safety research to identify emerging technologies and best practices and to encourage railways, road authorities and municipalities to adopt those best practices which are not regulatory requirements.
- 5) Obtain data through research, accident/incident investigation, and in partnership with railways, road authorities, municipalities, police departments and other government departments.
- 6) Analyse data to identify safety concerns, trends and emerging risks for use directly at individual railway/road crossings or systemically in the orientation of our regulatory, research or program activities.
- 7) Support and carry out safety promotional activities with respect to crossing safety through continued support of Direction 2006, Operation Lifesaver as well as TC programs.
- 8) Funding grade crossing safety improvement and crossing consolidation projects based on risk management principles.

## **5. Role and responsibilities**

The Rail Safety Directorate is responsible to ensure the regulatory instruments (i.e. regulations) are enacted and enforced and to develop the national programs, policies, guidelines, data analysis requirements and methodologies for consistent application throughout the Regions. A key role is to establish constructive and beneficial relationships with partners through comprehensive consultation.

The Surface Regions are responsible to ensure that regulated parties meet the regulatory requirements and that regional activities are implemented and carried out consistently and in accordance with the national programs, policies, guidelines, data collection requirements and methodologies. A key role is to contribute and participate with headquarters during formulation of national policy and programs.

In accordance with Section 31 of the RSA, Railway Safety Inspectors shall take action where a threat or immediate threat is identified.

## **6. Monitoring**

The implementation and effectiveness of this policy will be assessed by the Director General Rail Safety through periodic internal audits, program reviews and input from interested and affected parties.

## **7. Inquiries**

Inquiries about this policy should be directed to

Rail Safety  
Place de Ville  
Tower C, 10th Floor  
330 Sparks Street  
Ottawa, Ontario  
K1A 0N5

Phone:(613) 998-2985

Fax:(613) 990-7767

Transport Canada

## IDENTIFICATION AND EXAMINATION OF SAFETY AT PRIVATE CROSSINGS

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PHASE 2 INTERIM REPORT - REFERENCE #T8200-044506

JUNE 2006

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Appendix A: Interview Summaries

# 1. INTRODUCTION

## 1.1 Background

Over the past several years, the safety of private crossings has come under increasing scrutiny. Between 1995 and 2003 there has been an average of 45.1 collisions per year at private and farm crossings. These incidents can affect numerous stakeholders, such as the vehicle and equipment drivers, railway operating personnel, railway passengers, property owners, municipalities, and federal authorities.

Some potential causes of grade-crossing incidents have been identified and include, but are not limited to, increased exposure times, operator expectancy violations, poor crossing designs, and lack of education and notification.

In July 2005, IBI Group in association with UMA Engineering Ltd. (hereafter referred to as the IBI Group Team) was retained to complete a study to identify and examine the key factors of safety at private crossings (Reference Number: T8200-044506).

The study is comprised of the following three phases:

- **Phase 1: Review of Available Information and Data** – Obtain and evaluate available literature, statistics and data relating to private crossing collisions/incidents, warning systems and signage, access, operations, maintenance, user education and applicable laws and regulations;
- **Phase 2: Collection of New Information and Data** – Conduct surveys and interviews of stakeholders in relation to the provision, use, operation, management and safety of private crossings. These tasks will then be used to identify and assess risk mitigation strategies specific to these crossing types; and
- **Phase 3: Conclusions and Recommendations** – The formulation and documentation of the conclusions and recommendations relating to the root causes, symptoms and risk mitigation strategies relating to collisions/collision potential at private crossings.

Phase 1 has been completed and submitted to the Project Steering Committee. The Phase 2 stakeholder interviews have been completed. This document represents an Interim Report covering Phase 2 of the study.

## 1.2 Phase 2 Scope and Objectives

Phase 2 comprised of the following tasks and objectives:

- **Task 1: Develop Phase 2 Plan** – IBI submitted a detailed work program for review and comment. This work program included a comprehensive description of the tasks to be undertaken in Phase 2 and the specific methodology for each. A revised project schedule was created.
- **Task 2: Survey Instrument Design and Approvals** – IBI designed a survey instrument that facilitated the collection of information from identified stakeholder groups. Stakeholder groups and potential interview candidates were selected. IBI focused on conducting interviews via telephone, and created a summary template for

documenting information presented by the stakeholders. The interview questions and the summary template were reviewed and approved by the Project Steering Committee.

- **Task 3: Conduct and Analyze Surveys/Interviews** – IBI prepared meeting notes for each stakeholder. IBI followed up with participants to ensure that the conversations were properly documented. IBI met with the PSC to provide an overview of the consultation responses to date.
- **Task 4: Identify and Assess Risk Mitigation Strategies** – IBI prepared a comprehensive private crossing “Life Cycle” analysis based on Phase 1 findings and the stakeholder consultation. IBI identified and assessed the contributory factors to determine the areas of risk associated with private crossings and identified risk mitigation strategies.

## 2. STAKEHOLDER CONSULTATION PROCESS

The following subsections describe the stakeholder consultation process, including the types and numbers of individuals consulted, the interview and reporting processes, and the challenges encountered along the way.

### 2.1 Stakeholder Categories and Level of Participation

Six general stakeholder categories were identified for participation in Phase 2. The six stakeholder categories are listed below; the level of participation (i.e., the number of stakeholders interviewed) for each category is given in parenthesis; and a brief description of the types of individuals interviewed is provided:

- **Railway Engine Crews (6)** – Locomotive engineers representing the passenger train and freight train sectors;
- **Railway Regulatory Affairs/Public Works/Technical Services Officers (15)** – Public works managers, railway planning managers, commuter rail officials, real estate departments, track supervisors, and public services agents;
- **Private Crossing Owners and Users (11)** – Farmers, snowmobile clubs, small business owners, cottage owners, industries, golf course directors, and land developers;
- **Railway Regulatory Officials (5)** – Transport Canada officials/crossing inspectors, and railway works engineers;
- **Transportation Safety Board (TSB) Accident Investigators (5)** – Senior TSB accident investigators from across Canada; and
- **Canadian Transportation Agency (CTA) Officials (2)** – Senior CTA officials familiar with all practices of the agency as they pertain to railway crossings.

The varying levels of participation for the six stakeholder groups are representative of the diversity of the types of individuals that make up the category and the depth and consistency of the information provided by the stakeholders in the category.

## 2.2 Interview Process

After identifying potential interview candidates and arranging for their participation in the study, interviews were scheduled, and a letter containing a brief project description and a list of stakeholder-group-specific discussion questions was e-mailed to each participant. For the most part, the interviews were conducted one-on-one via telephone (some interviews were conducted in-person) and were treated more as open, candid discussions, rather than formal surveys.

Initially, it was expected that each stakeholder interview would take approximately 30 minutes; ultimately, the interviews ended up lasting, on average, between one and two hours, due to the abundance of information provided by the stakeholders and their interest in discussing the subject. Identifying and making initial contact with stakeholders also proved more difficult than originally anticipated, and finding participants from the crossing owners and users category was particularly challenging. However, a broad cross-section of participants was eventually assembled, and the insight that they provided has resulted in a wealth of information regarding the state of private crossings in Canada. The assurance that the stakeholders' identities would be kept confidential contributed to their candidness.

## 2.3 Reporting Process

The project team interviewers recorded important/relevant discussion items (not formal minutes) during the stakeholder interviews, and later transcribed those notes into standardized stakeholder survey note forms. The completed survey note forms were forwarded to the corresponding stakeholders, generally via e-mail, for their approval. Once any comments received from the stakeholders were incorporated into the records, the survey notes were finalized. Versions of the finalized notes, with all stakeholder-identifying information removed, were then posted to the Transport Canada FTP site for review by the Project Steering Committee. A complete set of survey notes is included in **Appendix A**.

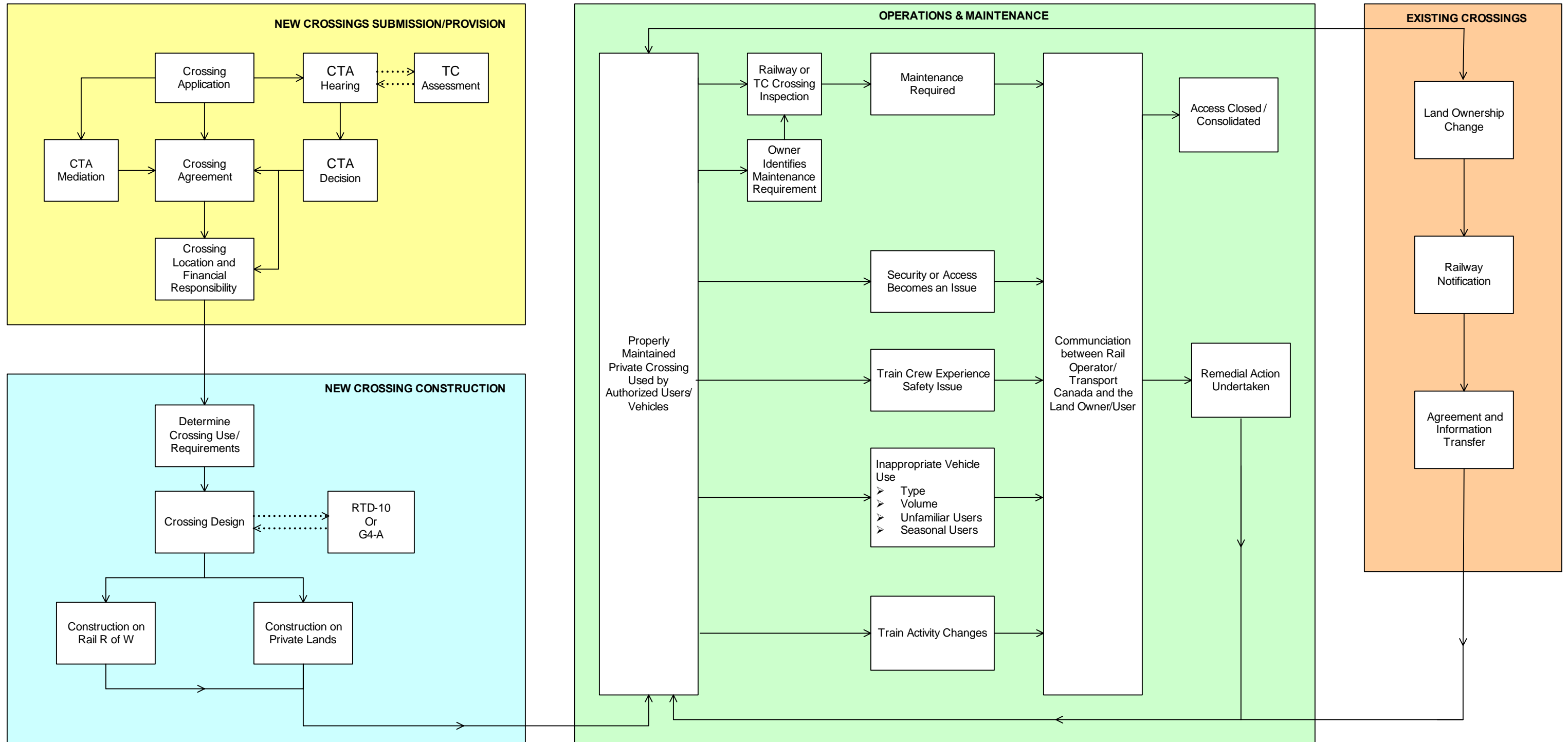
## 3. PRIVATE RAIL CROSSING "LIFE CYCLE"

The initial work plan for Phase 2 described plans to develop a "weighted cumulative factors" risk assessment model for identifying and evaluating contributory factors related to the level of safety associated with a private crossing. Through the efforts of Phases 1 and 2 and discussions with the Project Steering Committee, it was determined that the initially proposed methodology was poorly suited to assessing safety at private crossings for the following reasons:

- The risk of a collision at a private crossing may be attributed to one or two major deficiencies and would not be properly identified through a cumulative factors approach, i.e., change in ownership and subsequent use of a crossing by uninformed users; and
- There are fundamental policy, operating and maintenance issues relating to private crossing safety that require remedial action, regardless of their apparent "weighted effect" on risk.

Based on this assessment of the initially proposed methodology, a new evaluation process was developed. The new evaluation process is more intuitive and involves describing and analysing the private crossing "life cycle." Using the information collected through Phases 1 and 2 of this study of safety at private crossings, the IBI Group Team was able to gain an understanding of and document the events, processes, and stages that comprise the private crossing "life cycle." **Exhibit 3-1** illustrates the private crossing "life cycle."

Exhibit 3-1: Private Crossing "Life Cycle"



The remainder of Section 5 describes the various stages of the private crossing “life cycle” in detail. The information presented in Section 5 is based on the research conducted in preparing the Phase 1 report and is supported by new information gathered from the stakeholder interviews. The information is primarily verifiable and fact-based; however, the opinions and observations of stakeholders are also provided, where they demonstrate the perceived state of private crossings in Canada.

## 3.1 New Crossing Submission/Provisions

### 3.1.1 EXISTING LEGISLATION, REGULATIONS AND POLICIES

The Canada Transportation Act (1996) governs the authorization of new private crossings. Administering the Act is the primary responsibility of the Canadian Transportation Agency. With respect to private crossings, the relevant sections of the Act are Part III, Division II, Construction and Operation of Railways, Sections 100 to 103. The relevant sections of the Act, as they pertain to new crossing authorization, are described in detail in Sections 5.1 and 6.1 of the Phase 1 report.

The informal terms crossing “by right” and crossing “by grace” are used by the CTA when referring to crossings authorized under Sections 102 and 103 of the Canada Transportation Act, respectively. The terms crossing “by right” and crossing “by grace” have been adopted, for simplicity sake, for use in this report.

The CTA has no specific safety mandate, but rely on the railways and Transport Canada to ensure that all crossings are safe. If no particular safety issues are identified to the CTA with the crossing application, it is assumed that no extraordinary safety concerns exist. If safety concerns are identified during the application process, any authorized crossing (a “suitable crossing” in the terms used by the CTA) would have to meet the requirements for safety as stipulated by Transport Canada. All new crossings, private or otherwise, authorized by the CTA are authorized on the conditions that the crossing must comply with the safety requirements mandated by the Railway Safety Act. The Railway Safety Act is treated in greater detail in Section 6.2 of the Phase 1 report.

**The existing application, review and approvals process does not appear to be explicitly negatively affecting the level of private crossing safety.**

### 3.1.2 DECISION PROCESS, NEGOTIATION AND ARBITRATION

In general, there are three means by which a crossing agreement can be reached:

- **Independent settlement between the railway and the landowner** – Independent negotiation between the railway and the landowner is the most common means of establishing a crossing agreement. Section 101 of the Canada Transportation Act states that agreements reached between parties can be filed with the CTA, and upon filing, those agreements become Orders of the CTA;
- **Agreement between the railway and the landowner mediated by the CTA** - For several years the CTA has been offering its services as mediators, providing the service when landowners and railway companies are unable to reach an agreement on their own, but both parties are interested in achieving a negotiated settlement. The agreements reached through mediation are binding, but the negotiation process often allows the parties to achieve certain compromises that might not present themselves otherwise (e.g., the agreement might include a provision allowing the railway to

traverse the landowner's property to access their right-of-way), and it generally helps to build a more positive working relationship between parties; or

- **Decision handed down by a CTA tribunal** – In cases where the railway and the landowner are unable to reach an agreement the CTA can be called upon to rule on the matter. The decisions of the CTA are final and binding.

**The CTA decision/arbitration process includes a review of the crossing usage and vehicle type; however, there is no legislative/legal documentation of these conditions in the resultant decision. Although not a direct safety concern, this deficiency does have implications in other aspects of the crossing "life cycle".**

### 3.1.3 AGREEMENT TERMS

For independently negotiated crossing agreements, the railway's real estate department is the primary point of contact between the railway and the landowners [It should be noted that many smaller railway companies do not have their own real estate departments.]. At Canadian Pacific (CP), requests for new crossings are generally received from the landowner via one of three means: direct contact, through the engineering department, or on the Community Connect line/website.

Generally, the railways have standard private crossing agreement procedures; however, the specific details of every crossing agreement are exclusive to the crossing. The railway companies generally have three common (i.e., non-site-specific) requests when it comes to negotiating a crossing:

- The landowner must pay an annual fee for the right to a crossing;
- The landowner must show proof of having liability insurance for the crossing; and
- The landowner must agree to a provision stating that the railway company can terminate the crossing agreement given 30 days notice.

Often, a caveat is added to the agreement stipulating that if the use of the crossing changes significantly (e.g., changes in operating equipment or frequency of use) the appropriateness of the crossing will have to be reviewed. Many railway industry stakeholders cited changes in crossing use as a major safety risk, since often the crossing is not designed to accommodate the usage. There is also a concern that landowners are not forthcoming enough when it comes to informing the railways of changes in usage, and frequently the railways only discover such changes through coincidental observations.

Inability (due to prohibitive costs) or unwillingness on the part of the landowner to accommodate these requests often results in the case ending up at a CTA hearing. The rulings handed down by CTA tribunals are based on precedent; as such, the decisions reached are very consistent. Crossing authorizations granted by the CTA indicate the location where the crossing is to be built, the parties responsible for the cost of construction, maintenance, etc., and the conditions under which the crossing is authorized.

Many older crossings have no documentation of terms or formal agreements. As such, the railways are often unable to determine whom they should contact regarding crossing issues, and the landowners are not always aware of the conditions and/or responsibilities that apply to their crossing. The lack of a comprehensive database of all private crossings and their related

agreements is a fundamental disconnect in the current private crossing system; this reality is further described in **Section 3.3.3**.

#### 3.1.4 FINANCIAL RESPONSIBILITY

Financial responsibility is dependent on the terms of the agreement reached between the railway and the landowner or the terms of the decision handed down by the CTA.

Independently negotiated agreements and agreements reach through mediation often result in part of the cost being apportioned to the railway and part to the landowner. The relative size of the apportioned costs is specific to the particular agreement.

When a CTA tribunal decides to authorize a crossing “by right,” usually, the railway is financially responsible for all costs associated with establishing a safe crossing. When a crossing “by grace” is granted, the landowner is usually financially responsible for all costs associated with establishing a safe crossing. The CTA does not have the discretion to apportion costs for crossing granted “by grace” or by the Agency’s discretion under section 103 of the Canada Transportation Act.

**The allocation of financial responsibility for the crossing construction and maintenance does not appear to have a direct impact on the resultant level of crossing safety.**

## 3.2 Crossing Construction

Construction practices are dictated by the safety requirements mandated by the railways, which are based on Transport Canada safety requirements (e.g., the Railway Safety Act). In order to determine the long-term, best-fit crossing requirements, the landowner is asked to provide information regarding the purpose of the crossing, the intended frequency of use, the type of equipment that will be used, and if the applicant has intentions of significantly changing or increasing the use in the foreseeable future, with regards to; development, subdivision, or significant commercial or industrial plans.

Once the intended use of the crossing has been determined, a request is sent to the railway’s engineering, operations, and capacity groups for their approval. If they have no objections to the crossing, a drawing is created showing the location of the new crossing, and the requirements with respect to approaches, culverts, gates, signs, etc. are determined. All construction that takes place on the railway right-of-way is conducted by railway personnel or authorized private contractors. Depending on the terms of the crossing agreement, the applicant might be responsible for the construction of the approaches, any culverts or drainage features that are required, and installation of signs and/or gates. Typically, all work has to be done under flag protection by the railway. The typical private crossing is at grade, with a timber-plank crossing surface, and has gravel/dirt approaches.

During the interviews with stakeholders, differing viewpoints were expressed concerning the technical standards that are used for the design of private crossings. Most often, the technical standard now used for the design of public crossings is the proposed standard “RTD-10 Road/Railway Grade Crossing Technical Standards and Inspection, Testing and Maintenance Requirements.” Certain stakeholders feel that this document is adequate for the design of private crossings; however others (including both railway and Transport Canada representatives) expressed many concerns. The list below provides a summary of the thoughts expressed by the stakeholders concerning technical standards.



- The requirement to include the design vehicle characteristics into the calculation of sightlines (under RTD-10) is seen as beneficial by some due to the very long and wide equipment sometimes accommodated at farm crossings, these participants had not had difficulty obtaining the correct information and found the methods to be adequate despite the amount of time required to obtain information;
- The calculations required by RTD-10 address many safety concerns that currently exist at private crossings;
- A simplified form of RTD-10 is required;
- Some railway personnel have identified the consideration of design vehicle characteristics in the calculation of sightlines as very difficult or complex. Comments provided indicated that technical data required is rarely available; owners are not able to provide the level of detail required (such as acceleration characteristics), especially for farm equipment.
- Railways are not always provided with the correct information and indicated that observation is the only way of obtaining the information required for RTD-10 calculations. As well, the specific types of vehicles using crossings change rapidly.
- The existing and less complex "Minimum Railway/Road Crossing Sightline Requirements for all Grade Crossings without Automatic Warning Devices, G-4A" continues to be used in some areas, especially for low volume private crossings.
- Some comparisons conducted by railway personnel have indicated that the G4-A method yields similar results to RTD-10. Others have indicated that a past study showed that clearance time required for certain vehicles under RTD-10 greatly exceeded the requirements set out in G-4A;
- Participants indicated that a simplified tool/calculation/method for RTD-10 is needed especially for low use crossings (similar to the current G-4A);
- The complexity of the RTD-10 may require some owners to pay engineering firms to do the design work necessary for the development of drawings needed when applying for a crossing, thereby increasing the costs to the applicant;
- Software that could be used in the field, that would be able to provide the requirements of the crossing based on crossing data entered on location (slopes etc.) was suggested;
- There are few technical standards that are applicable to private crossings, but experience along with standards for public crossings is usually sufficient;
- Requirements for different types of crossings should be included in the new regulations and the standards should also address items such as fencing and farm gates at crossings leading to multiple residences.

**The primary issue relating to the initial crossing construction is the cost/delay associated with the application of technical standards. At the time of construction the crossings are constructed to operate in a safe manner. The main concerns arise during the operations and maintenance stages.**

### 3.3 Operations and Maintenance

This section describes operations and maintenance procedures and practices, as they pertain to both new and existing private crossings.

#### 3.3.1 EXISTING LEGISLATION, REGULATIONS AND POLICIES

The interview process has yielded the following information concerning existing legislation, regulations and policies with respect to the operation and maintenance of private crossings.

Owners of private and farm crossings are typically unaware of the legislation and regulations that apply to their crossing. Some owners are aware of the contents of an agreement that they may have with the railway (usually for crossings “by grace”), however this is not always the case. Certain owners indicated that they feel that the railway should be providing them with much more information in this regard. Owners of crossings that have existed for many years seem to be the least aware of legislation and agreements, whereas owners who have recently obtained permission to a crossing are the most aware. Some owners indicated that the only legislation that they are aware of is the provincial Highway Code. In the case of snowmobile users in Ontario, they indicated that they are aware of the Motorized Snow Vehicle Act, which requires them to stop at all railway crossings.

**Crossing agreements and owner information need to convey both the owner’s and the railway’s responsibilities regarding maintenance, vehicle use, access, etc.**

The railway representatives indicated that the railways are responsible for the maintenance of the crossings; however, responsibility for the maintenance of the approaches and sightlines varies. The railways are responsible for maintaining all aspects of crossings granted “by right,” the agreements established between the railway and the crossing owner govern the responsibilities for the maintenance of crossings granted “by grace”. In all cases, the railway is responsible for conducting all maintenance within the railway right-of-way (crossing approach maintenance is not typically the responsibility of the railways). However, for a crossing granted “by grace” the crossing owner may pay fees to the railway to cover these costs. In some cases, the agreements entered into by the railway and crossing owner stipulate the type of vehicle that is permitted to use the crossing as well as the type of use permitted (such as access to a small business) and require the owner to advise the railway if they plan to use any other type of vehicle or modify the type of use. The railways are of the opinion that these types of agreements are important; however, the crossing owners do not always abide by them. Some agreements may be lacking in clauses relating to maintenance of, or use permitted at crossings, posing a challenge to the railways. The addition of such clauses would improve safety at crossings.

Transport Canada personnel indicated that they may intervene with either the railway or the crossing owner in cases where there is a threat to safety at an existing crossing. They do not usually provide recommendations; rather they require that dangerous situations be corrected. Usually Transport Canada will intervene with the Railway rather than with the crossing owner. Certain different methods of intervention were identified. Transport Canada may issue “Notices” or “Notices and Orders” in cases where there are safety concerns. A “Notice” issued to a railway allows the railway 14 days to advise Transport Canada of the corrective measures to be applied, however, one Transport Canada representative indicated that the solutions presented may be weak and unsatisfactory, based on economics. Alternatively, a “Notice and Order” may be issued which may restrict train operations (often applies speed restrictions on the railway), or crossing use, until the situation is corrected. Transport Canada finds this to be very effective in correcting dangerous

situations; often the threat of issuing a “Notice and Order” is sufficient to ensure that adequate corrective measures are applied. Alternatively, Transport Canada has the authority to order a crossing to be closed; this seems to be used in exceptional cases. Currently Transport Canada inspectors do not have the power to issue fines immediately on site upon detection of unsafe situations or behaviour at crossings. The desire to have this power (as currently exists in the United States at the Federal Railroad Administration) was expressed. As well, it was indicated that enacting the currently proposed new regulation and associated technical standard (RTD-10) would address certain safety concerns at these crossings.

**It is a widely held belief amongst railway industry stakeholders that many of the safety issues created by inadequate designs in the past and/or current maintenance practices, could be addressed by putting the RTD-10 guidelines into force. Currently, there are no enforceable standards for private crossing design and maintenance that can be used to force crossing upgrades.**

Railway personnel interviewed (public works officers, real estate representatives, track supervisors) have provided differing viewpoints concerning existing legislation as it refers to the maintenance of sightlines at crossings. The majority of those interviewed indicated that the current “Minimum Railway/Road Crossing Sightline Requirements for all Grade Crossings without Automatic Warning Devices, G-4A” is adequate for use during inspections of private crossings, and that it is a tool that is easily applicable in the field. These participants indicated that they are concerned that the proposed technical standard, RTD-10, is too difficult for use in the field by track supervisors. They indicated that a simplified tool is required for use in the field during inspections. Other parties interviewed indicated that the proposed standard is superior for this use, given its consideration for design vehicles.

### 3.3.2 CROSSING INSPECTION AND MAINTENANCE

The railways generally have policies in place to inspect all of their crossings on a yearly basis; however, a general lack of resources to perform inspections is having an impact on the actual frequency of private crossing inspections.

When the railways conduct inspections the focus is generally on sightlines and crossing surface condition. Depending on who is conducting the inspections, sightlines could be evaluated using either the G4-A or RTD-10 guidelines; it seems to be a matter of individual preference.

Transport Canada undertakes annual inspections of all crossings (public, farm, private) to ensure that all crossings are safe. An inspection report is issued to the railway that is then responsible to ensure that deficiencies are corrected. In particular, signage and sightlines are reviewed. The railways are now looking at a more programmed approach to ensuring that sightlines are adequately maintained, according to one stakeholder, there has been a marked improvement in recent years.

**There must be an easily accessible, consistent and formal mechanism for the crossing owner to inform the railways of inspection needs.**

All maintenance on the railway right-of-way is conducted by railway personnel or approved private contractors. Occasionally, landowners will do some brush trimming to clear sightlines, but

technically they are not authorized to do any such work on the railway right-of-way. Conversely, more than one railway industry stakeholder cited challenges in gaining access to private land for the purpose of clearing brush or tree limbs (originating from that land) that were obstructing sightlines.

### 3.3.3 PRIVATE CROSSING INVENTORY AND TRACKING

During the interviews conducted with both railway and Transport Canada personnel, it became clear that significant challenges exist regarding maintaining an up-to-date inventory of private crossings.

Transport Canada does not maintain a database of these crossings. Railways have difficulties in maintaining their databases, especially for crossings granted "by right" since they are not made aware of changes in land ownership. As a result, the databases become outdated quickly. Short line railways indicated that they did not acquire up-to-date lists of crossings and owners, or even the crossing agreements, at the time they purchased the railway line. The representatives of these railways indicated that they do not have the personnel required to establish and maintain a database, although some have made significant efforts in this regard and are in the process of cataloguing the crossings on their lines. Crossings governed by agreement (typically crossings "by grace") are often easier to track than those without agreements (typically crossings "by right") since the railways regularly issue invoices for maintenance fees to the owners of the crossings. There are cases, however, where the documents concerning existing crossings are missing and ownership information is no longer available. The department responsible for establishing and maintaining inventory listings varies by railway; this may be done by the Real Estate or Technical Services departments, or by the General Manager's office.

**The lack of a comprehensive and current inventory of all private crossings and their owners creates critical communication deficiencies throughout the "life cycle" of a private crossing.**

Ultimately, a comprehensive crossing (private and public) inventory/database is fundamental and critical to crossing safety across the country. To some extent the railways have recognized this necessity, and numerous railway divisions have begun the process of cataloguing their private crossings; however, the scope and accessibility of those databases is extremely limited (sometimes they are only available to one railway department). The absence of a proper, truly comprehensive, accessible inventory of crossings delays and/or prevents the notification and communication processes and significantly impacts crossing safety.

### 3.3.4 INSURANCE AND FEES

Typically the railways request that the owner of a crossing granted "by grace" pay an annual maintenance fee to the railway and that the owner show proof of liability insurance (usually \$5M). These elements are regularly included in the agreement governing the crossing. Annual fees and proof of insurance are not required in the case of a crossing granted "by right."

Information provided by representatives of the CTA indicated that, in cases where they are required to intervene, the railway's request for maintenance fees and liability insurance are frequently reviewed. In cases where the owner has no other access to his land, the Agency will typically decide that the annual fee must be waived, as well, since there is no legal obligation for the landowner to carry liability insurance for the crossing, the Agency almost always determines that it is up to the landowner to determine the necessity of carrying such insurance.

Railway representatives indicated that there are frequently instances of crossing owners neglecting or refusing to pay their annual fees, and yet they will continue to use the crossing.

**The financial responsibility for maintenance or insurance does not appear to have a direct effect on private crossing safety; however, it may have a direct impact on the owner's awareness of their liability/responsibilities associated with the crossing.**

In cases where improvements are required to a crossing "by grace," the railways require that the owner pay the costs of the necessary work. In some cases, the costs are significant and the owners cannot afford to pay. Transport Canada officials indicated that this has happened in certain instances where Transport Canada has imposed restrictions on the railway, due to an unsafe crossing, and the railway then passes on the often-prohibitive costs of the improvements to the crossing owner. It was suggested that legislation should be established requiring that owners be responsible for the cost of the works to upgrade/modify crossings, especially when the modifications are due to changes in use of the crossing, changes in vehicle type, and changes in the volume of traffic using the crossing.

### 3.3.5 SECURITY AND ACCESS CONTROL

Controlling the use of private crossings is a challenge, based on the information provided by the many user groups interviewed. It is difficult for railways to control unauthorized use of these crossings.

Few of the participants indicated that access to their crossings was physically restricted (for example, by farm gates). In addition, differing opinions were provided concerning the safety of the use of farm gates at crossings. One Transport Canada representative indicated that there should be a regulation requiring locked gates at restricted crossings, thereby preventing unauthorized access. On the other hand, one experienced locomotive engineer indicated that safety problems frequently occur when a crossing user parks their vehicle on the tracks, in order to unlock or open a farm gate. The suggestion was made that in locations where farm gates are deemed necessary, they should be set well back from the tracks in order to provide sufficient space for a vehicle between the gate and the track. Another situation was described concerning a farm gate installed on one side of the track only, thereby allowing unrestricted access onto the track but not allowing a vehicle to get off the track, creating a safety risk.

In cases where a crossing leads to camps, or seasonal cottages, the camp members or residents are the only ones authorized to use the crossing. However, in reality, visitors to these locations use the crossings, as well as hunters, etc. One crossing owner indicated that the installation of signs and gates had been effective in stopping unauthorized use.

**Unrestricted access to a private crossing is a fundamental safety risk.**

Railway representatives indicated that safety issues could result from a crossing owner allowing others to use their crossing for a use that was not intended when the crossing was established. An example of such a situation is the authorization given to a snowmobile club to run their trail across private land and then to use the owner's railway crossing. Owners are not all aware that they must restrict access to their crossings and adhere to the stipulations set forth in the agreement with the railway. The railway representatives indicated that improvements are required, that owners must become responsible concerning the access and use of their crossings.

Railway representatives also indicated that access control is also affected when there is a change in property owners, new owners are often unaware of the requirements associated with the use of their crossing, and the railway is unaware of a change in ownership (this will be addressed further in **Section 3.4**).

**Private crossing owners may not understand the responsibility and implications of authorizing the use of their crossing by others. This may include employees (permanent or temporary), visitors, recreational users, or negotiated property access.**

The example was provided of old logging roads where the public uses the crossings since there is unrestricted access to them; these crossings may then become unrestricted de facto public crossings.

One railway representative indicated that there seem to be fewer accidents and incidents at crossings for farm use, granted “by right,” than at private crossings granted “by grace” since often crossings for farm use have limited access whereas other private crossings allow unrestricted access.

One participant indicated that a golf course was located across a private crossing, and that both members and the public use the course. In this case there is no control over the access to the crossing.

In order to restrict access to a large, fully automated, private crossing, located in the centre of a transport company’s fenced yard, the company had installed crossing gates (operated through the use of a magic eye type detector) in advance of the railway crossing gates, in order to ensure that no traffic could access the track without being well aware of the manner in which to proceed safely. This particular crossing was designed and is maintained as if it were a public crossing, with additional access restrictions.

**Improper use of access control devices poses a safety risk that is at least as significant as unrestricted access.**

### 3.3.6 WARNING AND INFORMATION SIGNS/DEVICES

In many cases, unfamiliar or occasional users of private crossing have little education or understanding regarding the safe use of the crossing. The only opportunity may be the information and guidance provided at the crossing itself through signing and warning devices.

Nearly all of the stakeholders interviewed provided input regarding warning and information signs at private crossings, concerning the signs that exist as well as their views concerning improvements to be made. It was found that most private crossings (especially “farm” crossings) do not have any warning or information signs posted. The most popular suggestion in order to improve safety at these types of crossings is to post cross bucks and stop signs on both approaches to every crossing that does not having an automated warning system.

The information provided from the stakeholders is summarized below.

#### **Stop Signs**

- Stop signs are seen as an effective way of ensuring that users stop and look for approaching trains, they are considered to be effective since they are a standard sign that drivers are used to and tend to respect;
- The use of stop signs at private crossings varies by railway and even by subdivision. The size and condition of sign are not regulated and therefore some stop signs are small and easily overlooked, while others are not properly maintained;

**Standard regulatory, warning and information signs are the foundation of all transportation intersections. Private crossings should not be an exception to this principle.**

- Some railway representatives indicated that they feel stop signs should be placed at each approach to every private crossing (at both “by grace” and “by right” crossings) and that this should be standard practice;
- Snowmobile clubs post their own signage along their trails, one representative contacted indicated that there are supposed to be “stop ahead” signs in advance of the crossing and “stop” signs at the crossings, these signs are considered to be effective; and
- Crossbucks should be placed at all crossings along with stop signs, on each approach.

**Whistle Posts**

Whistling is typically not required at private crossings and often is only employed in emergency situations.

Owners having a crossing located close to a public crossing where trains are required to whistle indicated that the train whistle provided a significant safety benefit. It is important to note that this benefit might only exist for trains travelling in one direction. The safety benefit is not as significant when the crossing is further away in areas where train speeds are slow. There are whistle posts at very few private crossings. The requirement to whistle at a private crossing may be added by the railway for safety reasons. Transport Canada will only order whistling reluctantly as they believe other measures are more effective in correcting safety deficiencies. Snowmobile users, and other similar users, are unlikely to hear the train whistle due to their insulated helmets and the noise from their machines.

**Whistling has a proven safety benefit, and would be especially effective at private crossings where sight lines are limited.**

### Automated Warning Systems

- Few fully automated warning systems are installed at private crossings. They tend to be installed at large crossings with higher vehicular traffic, such as at private industrial crossings; these are typically crossings granted “by grace” and are governed by an agreement;
- Requests by owners for fully automatic flashing lights, bells and gates in order to improve safety at a crossing are often forgotten when the cost of such devices is discovered;
- The addition of flashing lights would draw further attention to crossings thereby improving safety;
- Railway and Transport Canada stakeholders along with some owners expressed a desire for Transport Canada to establish grants for the installation of automated warning systems.

### Mirrors

Mirrors have been placed at certain locations in order to offer better visibility, such as close to a rock cut (placed at low use private crossings). Few short line railways indicated that they have used mirrors. Information was provided indicating that both convex mirrors and flat mirrors are used, although one railway representative indicated that convex mirrors give a false sense of security since the train is actually closer to the crossing than it appears in the mirror, and drivers think that they have more time to cross that is actually available. Mirrors must be well maintained in order to ensure that their angle of placement does not change and that their reflecting surfaces are in good condition. Mirrors can become damaged easily. Also, mirrors can fog up or cause visibility problems by reflecting the sun at certain times of day.

### Emergency Contact Numbers

At present, emergency contact number are not provided at most crossings. Emergency contact numbers should be posted at all crossings to ensure that owners and users know where to call in case of a safety issue or other problem.

**Emergency contact numbers have repeatedly been identified as a critical piece of information that should be posted at every crossing.**

### Other

The following real or perceived safety improvements have been incorporated at some specific crossings:

- “Private crossing”, “Caution look both ways”, “No trespassing” and “Use at own risk” signs posted at the crossing;
- Conventional roadway signs such as “Walk/Don’t Walk” signals;
- The use of a private flagman where there have been safety problems (close calls);



- Flashing amber lights installed by owners;
- Large signs describing how to safely use the crossing;
- Signs on high speed corridors reminding users to be careful due to high speed trains;
- Signs at locations having poor visibility reminding users to look carefully;
- Retro-reflective materials on signs and sign posts;
- Rumble strips in paved approaches to alert drivers to the crossing;
- Colour schemes for signs that would allow them to stand out from their surroundings.

**A poorly marked or maintained crossing may lead an unfamiliar user to incorrectly assume that the railway operations are not active, nor a substantial threat.**

The absence of signage, or damaged signage, at crossings leads users to believe that the train line is no longer used. This misconception leads users to believe that it is safe to cross the tracks at all times.

Information obtained during the interviews with Transportation Safety Board investigators provided additional insight into the issues relating to signage. The information provided is as follows:

- The investigators indicated that most often deficiencies found relate to lack of signage and/or poor maintenance practices;
- Emergency contact numbers should be posted on signs at all crossings;
- Lack of reflective surfaces on signage is a factor contributing to collisions;
- A standardized private crossing sign should be developed to increase visibility and conspicuousness of private crossings.

It was also noted that, a change in ownership of the railway might lead to changes in the way signage is maintained. As well, a new railway owner may not understand the reasoning behind certain specific warning signs placed at a certain location for safety reasons, and may remove them. This was noted to be particularly problematic for railways where the management is not situated locally to the operations. Issues relating to changes in ownership are addressed in greater detail in **Section 3.4.**

### 3.3.7 SUPPLEMENTAL SAFETY DEVICES

The issue of supplemental safety devices is somewhat contentious. Some stakeholders expressed an interest in testing out new technologies while others were adamant that minor improvements to safety could not justify the costs and risks associated with applying any type of experimental technology.

Those who refuted the use of new technologies indicated that the available safety devices (e.g., mirrors, bells, gates, whistles, etc.) were sufficient. In addition to cost concerns, the primary objection to using unproven safety devices was that they would need to be failsafe. Also, the

remoteness of many private crossing locations would make testing and maintenance challenging, given that the railways are already short on resources.

Those who supported the use of supplemental safety devices suggested the following technologies/systems:

- Block repeater systems whereby the presence of a train is communicated to downstream crossings;
- Low-cost automatic warning systems (possibly solar powered);
- LED lights on gate arms;
- Flashing lights instead of signs (particularly in areas prone to fog, etc.);
- Illuminated signs;
- Wayside warning systems (horns situated at the crossing and directed more effectively to the approaching motorists, not just on trains); and
- In-vehicle crossing warning systems.

#### 3.3.8 VEHICLE USE AND TYPE

New and reconstructed private crossing are designed and constructed to accommodate a range of vehicles based on the available information and technical knowledge at the time. According to several railway industry stakeholders, the fact that the railways and railway authorities do not have control over the types of vehicles that can use a crossing is one of the biggest issues facing crossing safety.

Issues pertaining to vehicle use and type exist across the country; furthermore, there appear to be some regional inconsistencies regarding those issues. For example, in western Canada, the vehicle type issues seem to centre on industrial and agricultural uses, whereas, in the eastern part of the country, recreational clubs and passenger vehicles were mentioned more frequently.

Most of the railway industry stakeholders were able to identify specific vehicle types that are frequently involved in incidents at private crossings. They also noted that when incidents occur, it is often as a result of an incompatibility between the vehicle and the crossing design (i.e., the crossing being used by vehicles for which it was not designed). Such an observation reinforces the need for disclosure and due diligence, on the part of the crossings owners and users, in notifying the railways of the types of vehicles that are operating on their crossings. That disclosure and due diligence is equally important during the crossing application process and throughout the life of the crossing if the crossing usage changes. As mentioned in **Section 3.1.3**, crossing owners/users are not always very forthcoming with information regarding changes in crossings usage, and as a result, incidents of vehicle/crossing design incompatibility can occur. Conversely, where crossing owners are unaware of the type of vehicles for which their crossing was designed, it might not occur to them to notify the railway when their use of the crossing changes. Given the general lack of knowledge that exists on the part of the crossing owners with respect to crossing agreements, etc., it is probable that many are unaware of the terms that govern the types of vehicle that should be used with their crossing.

**Use of a private crossing by a vehicle for which it was not designed is a fundamental safety issue.**

In addition to vehicle/crossing design incompatibilities, issues related to vehicle type and crossing maintenance were mentioned by stakeholders. For example, several railway industry stakeholders described incidents where frequent snowmobile use at private crossings (usually by members of snowmobile clubs) resulted in snow and ice becoming compacted between the rail and the rut, which is a derailment risk. When the railways are aware that snowmobile clubs are using a crossing they can adjust their maintenance practices accordingly; however, clubs sometimes arrange to use private crossings without notifying the railways, which can lead to issues like that described above.

**Ensuring the crossing is designed for, and used only by, appropriate vehicle types is a safety issue that spans the entire “life cycle” of the crossing. There are concerns associated with legal, education, communication and ownership aspects.**

Where they do not already exist, streamlined processes by which crossing owners can notify the proper railway authorities of intended changes in or deviations from normal crossing use should be developed and communicated to all crossing owners.

### 3.3.9 USER INFORMATION AND EDUCATION

Although there are a few sceptics, the general opinion amongst all of the stakeholder groups interviewed is that education campaigns and public information sessions have a positive impact on crossing safety. However, many stakeholders also identified deficiencies in the current education and information dissemination practices, particularly with respect to informing crossing owners and users about private crossing procedures and responsibilities. Below is a list of areas where stakeholders identified deficiencies:

- Crossing owners are not provided with any safety information or training. Many users do not even have the contact information for the railways;
- Often, driver training and driver handbooks give very little attention to crossing safety. In some instances crossing information has been removed from handbooks or has been omitted from training programmes;
- The general public needs to be educated on what procedures they should follow if their vehicle becomes disabled on a railway crossing (private or otherwise);
- Commercial drivers and farm equipment operators are two user groups that need to be targeted by education and information campaigns;
- Children are well targeted by existing general education and awareness campaigns, but adults are not as effectively reached; and
- Non-railway police and 911 operators need to be better educated to deal with crossing incidents.

Those who criticise information and education practices typically cited one or more of the following issues:

- Education and awareness campaigns are not far-reaching enough;
- They don't target the right user groups;
- The campaigns work initially, but people quickly become complacent and revert to old behaviours;
- There are not sufficient resources to reach everyone who needs to be educated; and
- Information needs to be redistributed or re-taught every year (or more frequently) requiring more resources.

Several stakeholders raised the idea of distributing information packages to private crossing owners during the application process as well as periodically throughout the life of the crossing. Doing so would have the double benefit of keeping owners and users informed about crossing safety and procedures, plus it would maintain a state of ongoing communication between them and the railways.

**The need for safety information and education is at the site, not on a billboard. Signage and information distributed directly to crossing owners is more likely to reach and impact its target audience.**

### 3.3.10 TRAIN ACTIVITY NOTIFICATION

The vast majority of private crossing owners and users receive no notification regarding train activity at or around their crossing from the railways. As such, the only information that crossing owners and users have is based on their personal experience. The railway industry stakeholders interviewed all took the opinion that informing crossing users of scheduled train activity breeds complacency. The railways would like all crossing users to live by the adage that "anytime is train time." The crossing owners and users interviewed for the study stated that knowing roughly when to expect trains at their crossings would allow them to better plan their activity at the crossings and avoid times when trains were more likely to be in the area.

**There are currently no formal mechanisms for railways to inform crossing owners that train activity at a particular crossing is changing.**

Owners and users whose crossings are located near adjacent public crossings noted that train whistles sounded at those public crossings provided them with some advanced warning of approaching trains.

## 3.4 Change in Ownership/Access

### 3.4.1 EXISTING LEGISLATION, REGULATIONS AND POLICIES

Changes in land ownership may bring changes in the owner's right to a crossing, changes to existing agreements, or changes to the status of a crossing.

The most straightforward case occurs when a landowner having a crossing granted “by right” giving access to his land located on either side of the railway tracks sells his land, without subdividing it. In such cases the new owner retains the right to the crossing. Since these crossings are not governed by an agreement with the railway, the new owner is not required to enter into a revised agreement with the railway, and does not pay any fees.

The situation changes when an owner subdivides his property, and may become more complex. Section 102 of the Canada Transportation Act stipulates, “When the construction of a railway line crosses a landowner’s land, the landowner has the right to a suitable crossing of the railway.” This right is determined based on historical data (i.e., records regarding the previous ownership and subdivision of the land). In cases where land is subdivided and sold, the railway track may no longer sever the owner’s property, eliminating the right to a crossing.

The third type of land transfer identified is the sale of land on which a crossing “by grace” (subject to the terms of the agreement between the landowner and the railway) exists. In these cases, the agreement between the railway and the landowner must be modified; the title on the land ownership registry must match the title on the crossing agreement.

**Regardless of the type of crossing, there should be a legal mechanism that requires railway notification prior to land ownership or land use changes.**

#### 3.4.2 RAIL AUTHORITY NOTIFICATION

During the interviews conducted with railway stakeholders it was indicated that that the second type of land sales identified above (cases where land is subdivided) have caused significant problems. These problems were noted in all regions of Canada, and on all railways. In fact, this was indicated as being one of the most significant difficulties with private crossings in Canada.

Numerous situations have arisen where property has been subdivided, and a lot on one side of the tracks has been sold without any legal access to that lot. The only means of accessing the property is across the railway tracks. Landowners do not realize that the right to the crossing (as per Section 102 of the Canada Transportation Act) is negated upon division of their land, and they falsely assume that the ownership of a crossing comes along with the purchase of land.

From the discussions, it became clear that lawyers/notaries do not verify that there is legal access to a lot before finalizing the land sale. In many cases, land is sold and housing subdivisions are built without any access except across the tracks. Municipalities have issued building permits without ensuring that there is legal access to the new residential area.

Transport Canada and railway representatives have indicated that this is a serious problem that must be addressed. Transport Canada representatives indicated that the railways should be responsible for ensuring that these situations do not occur by identifying activity near the tracks and intervening quickly. Railway representatives indicated that they are not advised, by anyone, prior to or upon the sale or subdivision of land, and that they are therefore unable to intervene until it is too late; they have no control over the use of the crossing. There do not seem to be any standards to control the change in vocation of a crossing, or to support the decision of a railway to ban access to a crossing when such changes occur.

A solution proposed by railway representatives is that municipalities should ensure that access roads are built to existing public crossings (significantly improving safety); that lawyers/notaries/municipalities should be required to verify that there is legal access to land prior to finalizing sales agreements/issuing building permits; and that they be obliged to contact and consult

with adjacent landowners (including the railway) during this process. It was noted that this process had been followed in one recent case in Western Canada with success, but that there does not seem to be any legal requirement to do so. Once houses are built, the crossing becomes used by all residents and is required for emergency services access, and therefore it cannot be closed. The crossing becomes a de facto public crossing, providing unrestricted use that the crossing was not designed for, but does not fall under the responsibility of the road authority because there is no agreement governing it. The railway becomes the only one responsible for the crossing.

For crossings where there is a change in status from a crossing “by right” to a crossing “by grace” the landowner/road authorities requiring the crossing must negotiate with the railway and apply to obtain a crossing “by grace,” which must be governed by an agreement. The owner is responsible for the fees associated with the crossing, as per the terms of the agreement with the railway. In these cases, safety concerns arise as the crossings may not be located in the best place in terms of safety, based on the modified usage. Additional safety devices may also be required, based on visibility and changes usage. Cases of this nature may be brought to the Canadian Transportation Agency if the railway and the owner are unable to come to an agreement. If the Agency deems the crossing to be necessary for the owner to enjoy his land, they may issue an order allowing the crossing to remain. Grants to upgrade these types of crossings may be available through the “Grade Crossing Improvement Fund,” subject to certain conditions.

#### 3.4.3 AGREEMENT TRANSFER

Railway representatives indicated, once again, that often the railway is not advised during the land transfer process and that new land owners are often unaware of their responsibilities concerning the crossing, including stipulations regarding usage permitted, associated fees, maintenance requirements etc. As well, the new owners are often unaware of the safety implications of owning and using their crossing.

**Formal information outlining the owner’s responsibilities with respect to a crossing should be provided to the new owner at the time when the new owner takes possession of the land.**

Upon the sale of land having a crossing granted “by grace”, the new owner must arrange for a revised crossing agreement with the railway, in the name of the new owner. The railway will be required to review the crossing and ensure that it is suitable for the use that is intended by the new owner. This owner is responsible for respecting all clauses of the agreement, including fees and costs of any modifications required to the crossing, based on usage. Due to the fact that the railways are seldom advised of changes in ownership, there are many agreements that are not in the name of the present owner, but rather are still in the name of the original owner.

On occasions where agreements are transferred, often no training/safety information is provided to the new owner. This agreement transfer process could be modified to ensure that safety information is provided.

## 3.5 Crossing Closure and Consolidation

### 3.5.1 EXISTING LEGISLATION, REGULATIONS AND POLICIES

Different ways in which crossings may be closed were identified; the three ways discussed are as follows:

### **Voluntary Closure**

The crossing owner may close crossings voluntarily. As discussed in Section 7.5 of Phase 1 of this report, Transport Canada's Grade Crossing Closure Program currently in place offers subsidies to voluntarily close passive crossings permanently. The subsidy offered for the closure of a private crossing is \$5,000. This grant is offered to the person with whom the rights to the crossing reside, and in accepting the grant, the owner gives up their right to use the crossing.

Transport Canada representatives interviewed indicated that there has been a varied response to the Grade Crossings Closure program. In certain regions the program is seen to be effective due to the efforts of railways in encouraging owners to close crossings, while there have been no closures in other regions. Both Transport Canada and Railway representatives indicated that the subsidy offered is not sufficient to encourage owners to give up their rights to a crossing. They have indicated that additional subsidies should be available to grant alternative access to property (to permit the closure of private crossings) or to pay for other safety improvements aside from closure.

**Transport Canada should have the freedom to provide subsidies to pay for safety improvements and alternative access, in addition to crossing closures.**

### **Transport Canada Order**

In addition to voluntary crossing closures, according to discussions with Transport Canada representatives, Transport Canada does have the authority to permanently order a crossing to be closed where there is a threat to safety. This action is rarely taken, however an example of such a situation was provided where Transport Canada ordered the closure of a farm crossing, in the case discussed, the Canadian Transportation Agency was asked to intervene by the crossing owner and the Agency ruled in favour of the closure of the crossing.

One Transportation Safety Board representative interviewed indicated that they feel that Transport Canada needs to have the authority to enforce the closure or consolidation of redundant or unsafe crossings.

### **Railway Initiated Crossing Closure**

Railways, being responsible for safety, may also order the closure of crossings that have been established "by grace", such as where a crossing owner does not respect the stipulations of the crossing agreement that is in place. This seems to be done in extreme circumstances only; in some cases the threat to close the crossing may generate a change in behaviour at the crossing and an improvement in safety. In cases where the railway orders a crossing closed, the owner may appeal to the Canadian Transportation Agency who will review the case. Railways will also remove crossings that are no longer in use.

Railway companies actively promote the closure and consolidation of crossings, and expressed a desire to receive more active participation from Transport Canada in this process, including the desire for Transport Canada to exercise their authority to require the closure of certain crossings for safety reasons. As well, non-financial active involvement in promoting voluntary crossing closures was suggested.

Railway representatives interviewed indicated that it is difficult to close private crossings when the crossing owner involves the Canadian Transportation Agency. The individuals interviewed indicated that the Agency might allow the crossing to be kept even if the railway, supported by Transport Canada, wished to close the crossing for safety reasons. Both Transport Canada and

railway representatives indicated that the Canadian Transportation Agency's decisions seem to go against the desire to close crossings in some cases. They feel that there is not enough interest from the Agency concerning the closure of crossings and that the Agency should be more proactive in this regard when making decisions regarding the authorization of crossings.

### 3.5.2 NEGOTIATION AND ARBITRATION

Within the context of Transport Canada's grade Crossing Closures Program, some railways have begun contacting crossing owners to review the need for their crossings, and to look at alternative access options. The owner would be the recipient of the federal grant discussed above if they agree to the permanent closure of their crossing.

The Canadian Transportation Agency may become involved in cases where the railway has removed a crossing and the landowner wishes to have the crossing reinstated, and the landowner and the railway cannot come to an agreement regarding the crossing or its status. As well, in cases where the crossing is one that was initially authorized by the Agency, the railway must obtain a new ruling from the Agency to close the crossing.

Railways have made considerable efforts to contact owners of private crossings that are not used, in order to close these crossings. Railways endeavour to close unused crossings as quickly as possible, limiting the possibility of unauthorized use. As well, the railways may negotiate with owners of multiple crossings to consolidate their crossings, or may negotiate the use of a single crossing by multiple users.

It was also indicated that small private crossings for residential use are nearly impossible to close, no matter how dangerous they may be. These crossings are often the only access to the property.

An example was provided of the successful closure of two crossings. In the case presented, the railway was able to convince owners of two separate crossings located near a curve to use a roadway alongside the track instead of their crossing.

Railways also find there is some confusion regarding the number of crossings that a landowner is entitled to, and that this can cause difficulties when negotiating the closure or consolidation of crossings. They indicated that it would be very useful if there were standards dictating the number of crossings permitted by lot, or the number permitted over a certain length of track. There are cases where 4 or 5 crossings exist, over a distance of 500 feet along the track. As well, the suggestion was provided to establish a distance from a public crossing along which no private crossings would be permitted.

Many stakeholders interviewed indicated that the closure of many private crossings could be accomplished if access roads leading to a public crossing or to a consolidated private crossing could be built. Train crews indicated that the closure of crossings is highly desirable as there are far too many crossings; that many crossings should be consolidated since many are redundant.

### 3.5.3 CLOSURE PHYSICAL WORKS

The railway must do physical work within the railway right-of-way. When a crossing is closed, all planking is removed, fencing may be added and approaches may be modified or removed.

In some cases, track supervisors are asked to remove crossings that do not seem to be in use. If a request to reinstate the crossing is received by the owner, the crossing will be rebuilt, on the condition that the owner still has the right to a crossing.



On occasion, railways will cut through crossing approaches during ditching works when it appears that a crossing is not in use, limiting access to the crossing. Again, if it is subsequently found that the crossing is required, the approaches are repaired.

Some railways remove seasonal use crossings for the off-season to ensure that they are not used illegally. These crossings are reinstated annually.

## 4. IDENTIFICATION OF CONTRIBUTORY FACTORS

Based on the Phase 1 work and the analysis of the stakeholder interviews, a number of primary issues have been identified, that solely, or in combination, have the potential to contribute to safety concerns at private rail crossings. Provided below is a summary of these potential contributing factors.

### 4.1 Comprehensive List of Potential Contributory Factors

To maintain consistency with the rest of the report, the potential contributory factors are presented as they apply to the major stages of the private crossing 'life cycle.'

#### 4.1.1 NEW CROSSING SUBMISSION/PROVISIONS

- The CTA decision/arbitration process includes a review of crossing usage and vehicle type; however, there is no legislative/legal documentation of these conditions in the resultant decision. Although it is not a direct safety concern, this deficiency does have implications in other aspects of the crossing "life cycle."

#### 4.1.2 CROSSING CONSTRUCTION

- The primary issue relating to the initial crossing construction is the cost and/or delay associated with the application of technical standards, as most new crossings are built using the guidelines identified in RTD-10. At the time of construction, the crossings are constructed to operate in a safe manner.

#### 4.1.3 OPERATIONS AND MAINTENANCE

- Crossing agreements and owner information need to convey both the owner's and the railways' responsibilities regarding maintenance, vehicle use, access, etc., to establish a permanent record of those responsibilities. The absence of formal records could lead to confusion, disagreements and/or issues that affect safety.
- Currently, there are no enforceable standards for private crossing design and maintenance that can be used to force crossing upgrades (for safety or otherwise). It is a widely held belief amongst railway industry stakeholders that many of the safety issues resulting from inadequate designs and maintenance could be addressed by putting the RTD-10 guidelines into force.
- To compensate for long delays between inspections, there must be an easily accessible, consistent and formal mechanism for the crossing owner to inform the railways of maintenance needs.

- The lack of a comprehensive and current inventory of all private crossings and their owners creates critical communication deficiencies throughout the “life cycle” of a private crossing. Such disconnects in communication compound safety issues by delaying remedial action.
- Unrestricted access to a private crossing is a fundamental safety risk. It allows the crossings to be used by individuals who are more likely to be unfamiliar with crossing use restrictions and emergency procedures.
- Private crossing owners may not understand the responsibility and implications of authorizing the use of their crossing by others. This may include employees (permanent or temporary), visitors, recreational users, or negotiated property access.
- Improper use of access control devices poses a safety risk that is at least as significant as unrestricted access. For example, stopping on the railway tracks to unlock a gate is a serious safety hazard.
- The lack of standard regulatory, warning and information signs could result in improper use of crossings due to drivers not being familiar with the signs used.
- A poorly marked or maintained crossing may lead an unfamiliar user to incorrectly assume that the railway operations are not active or a substantial threat.
- The standard practice of not whistling at private crossings might be resulting in an unnecessary safety risk, especially given the proven safety benefit shown at public crossings.
- Many crossing users are unfamiliar with the appropriate action to be taken in the event of an incident at a crossing. As such, emergency contact numbers have repeatedly been identified as a critical piece of information that should be clearly posted at every crossing.
- Use of a private crossing by a vehicle for which it was not designed is a fundamental safety issue. Therefore, it is imperative that the owners, users, and the railways be aware of the types of vehicles for which the crossing is designed and is being used throughout the crossing “life cycle.”
- Safety information and education is does not always reach and impact its target audience. Therefore, the need for safety information and education is at the site not in a general public information campaign.
- There are currently no formal mechanisms for railways to inform crossing owners to that train activity at a particular crossing is changing. The complacency that can develop on the part of the crossing user increases the risk of incidents when normal train activity changes, and no warning is provided.

#### 4.1.4 CHANGE IN OWNERSHIP/ACCESS

- Regardless of the type of crossing, there should be a legal mechanism that requires railway notification prior to land ownership or land use changes, to increase the likelihood that information reaches the appropriate parties.
- Formal information outlining the owner’s responsibilities with respect to a crossing should be provided to the new owner at the time when the new owner takes

possession of the land, which would help the transition process and reduce breakdowns in communications.

4.1.5 CROSSING CLOSURE AND CONSOLIDATION

- Transport Canada does not have the freedom to provide subsidies to pay for safety improvements and alternative access, in addition to crossing closures, to provide a safer transportation environment for as many people as possible. In some cases a railway crossing is the only feasible option for accessing a parcel of land.

5. RISK MITIGATION STRATEGIES

Each of the safety-related issues identified in Sections 6 and 7 were reviewed to determine potential approval, legal/regulatory, physical and/or operational strategies, which would address their fundamental cause. Outlined in **Exhibit 5-1** is a summary of the potential risk mitigation strategies.

**Exhibit 5-1: Potential Risk Mitigation Strategies**

<b>Contributory Causes</b>	<b>Potential Risk Mitigation Strategy</b>
<b>New Crossing Submission and Approval:</b>	
<ul style="list-style-type: none"> <li>• Railway/land owner agreements are not created for all crossings</li> </ul>	<ul style="list-style-type: none"> <li>• Railway/land owner agreement must be created for all private crossing regardless of type: “by right” or “by grace”</li> </ul>
<ul style="list-style-type: none"> <li>• Agreements and CTA decisions do not document crossing use and vehicle type permissions</li> </ul>	<ul style="list-style-type: none"> <li>• Agreements and CTA decisions must explicitly document intended crossing use and vehicle type at time of approval</li> </ul>
<b>Operations and Maintenance:</b>	
<ul style="list-style-type: none"> <li>• Railways are not properly notified of changes in crossing use or vehicle type</li> </ul>	<ul style="list-style-type: none"> <li>• Crossing owners should be provided with explicit information regarding their crossing permissions. This could be conveyed through the railway/owner agreement and reiterated in a crossing owner “information package”.</li> </ul>
<ul style="list-style-type: none"> <li>• Crossing owners need explicit information regarding the use and operations of their crossing</li> </ul>	<ul style="list-style-type: none"> <li>• Crossing owners need explicit information regarding their crossing responsibilities, use, maintenance, liabilities and communication protocol</li> </ul>
<ul style="list-style-type: none"> <li>• Railway operators do not have a comprehensive list of private crossing nor their ownership</li> </ul>	<ul style="list-style-type: none"> <li>• Establish a comprehensive and current list of private crossing locations and ownership status.</li> </ul>
<ul style="list-style-type: none"> <li>• Unfamiliar or infrequent users of a private crossing are not provided with education with regards to the crossing operations</li> </ul>	<ul style="list-style-type: none"> <li>• Create and distribute one comprehensive crossing owner’s information package, which outlines basic safety at private crossing education materials, including contact information.</li> </ul>

<b>Contributory Causes</b>	<b>Potential Risk Mitigation Strategy</b>
<ul style="list-style-type: none"> <li>• Unfamiliar or infrequent users of a private crossing are not always provided with widely recognized and understood regulatory, warning and information signs.</li> <li>• Emergency contact information is not provided at the crossing site.</li> <li>• Poorly marked or maintained crossing may lead an unfamiliar user incorrectly assuming the railway operations are not active or a substantial threat.</li> </ul>	<ul style="list-style-type: none"> <li>• Crossbucks, stop signs and emergency contact numbers must be posted at all private crossings and kept in a good state of repair</li> </ul>
<ul style="list-style-type: none"> <li>• Crossing owners may not understand the responsibility and implications of authorizing the use of their crossings by other</li> </ul>	<ul style="list-style-type: none"> <li>• Create and distribute one comprehensive crossing owner's information package, which outlines the safety implications and responsibilities of allowing access to their private crossing.</li> </ul>
<ul style="list-style-type: none"> <li>• Crossing owners are not provided with procedures or contact information to convey maintenance or operational issues to the appropriate rail official</li> </ul>	<ul style="list-style-type: none"> <li>• Create and distribute one comprehensive crossing owner's information package, which outlines rail general and emergency contacts and basic crossing maintenance and operations information, i.e., sight lines, approach condition, etc.</li> </ul>
<ul style="list-style-type: none"> <li>• There are no standard designs or operating procedures for access control devices such as gates</li> </ul>	<ul style="list-style-type: none"> <li>• Develop standard access control applications.</li> </ul>
<ul style="list-style-type: none"> <li>• There are no formal mechanisms for railways to inform crossing owners that train activity at a particular crossing is changing</li> </ul>	<ul style="list-style-type: none"> <li>• Establish a comprehensive and current list of private crossing locations and ownership status.</li> </ul>
<b>Change in Ownership/Access:</b>	
<ul style="list-style-type: none"> <li>• Railways are not properly notified of changes in ownership</li> </ul>	<ul style="list-style-type: none"> <li>• Legal transfer of lands adjacent to rail right-of-way must include railway notification or approval</li> </ul>
<ul style="list-style-type: none"> <li>• Railways are not properly notified of changes in land use permissions</li> </ul>	<ul style="list-style-type: none"> <li>• Municipalities should treat railways as stakeholders for development next to railway rights-of-way.</li> </ul>
<ul style="list-style-type: none"> <li>• Owners/potential owners are not properly notified of their crossing operations and ownership responsibilities</li> </ul>	<ul style="list-style-type: none"> <li>• Crossing owners should be provided with explicit information regarding their crossing permissions</li> <li>• Legal transfer of lands adjacent to rail right-of-way must include railway notification or approval</li> <li>• Private crossing information must be forwarded to new owner with real estate documents. A crossing owner information package would facilitate this process.</li> </ul>
<b>Crossing Closure and Consolidation:</b>	
<ul style="list-style-type: none"> <li>• The ability to reduce the number of private crossings is limited to the crossing closure incentive program and limited railway/owner negotiations.</li> </ul>	<ul style="list-style-type: none"> <li>• Transport Canada should have the freedom to provide subsidies to pay for safety improvements and alternative access, in addition to crossing closures.</li> </ul>

The intention is to carry forward these potential risk mitigation strategies into Phase 3 of the study where each strategy will be further described in terms of applications, benefits, delivery participants/responsibility, costs, funding sources and implementation issues.

## 6. OVERALL FINDINGS

Based on the work completed as part of the Phase 2 component of the Safety at Private Crossing Study, a number of fundamental policy, operation, and communication/documentation deficiencies were identified that have the potential to affect the level of safety at a private rail crossing. The objective of Phase 3 of the study, outlined in the following section, will be to assess the application of the preliminary risk-mitigation strategies, their benefits, costs and implementation feasibility.

## 7. PHASE 3 WORK PLAN

### 7.1 Introduction

In July 2005, IBI Group in association with UMA Engineering Ltd. was retained to complete a study to identify and examine the key factors or drivers of safety at farm and private crossings (Reference Number: T8200-044506). The first task of the study is to provide a detailed work plan and schedule to complete the project

This document represents the proposed work plan and schedule derived from the Project Implementation Plan and the IBI Group Team proposal submission.

### 7.2 Communication and Project Management

Provided below in **Exhibit 7-1** are the key contacts for the project management of the Safety at Farm and Private Crossings project. Day-to-day project management and correspondence will be communicated between the TDC and IBI Group Project Manager. Alternative contacts for the IBI Group Team are also noted below.

**Exhibit 7-1: Phase 3 – Primary Study Contacts**

Project Role	Contact Information
Technical Authority Transportation Development Centre Project Manager	Anthony Napoli Senior Project Manager Transportation Development Centre Transports Canada 800 West Rene Levesque Blvd, 6 <sup>th</sup> Floor Montreal, Quebec, H3B 1X9 514-283-6609 Fax: 514-283-7158 <a href="mailto:napolia@tc.gc.ca">napolia@tc.gc.ca</a>
IBI Group Team Project Manager	Ron Stewart, P. Eng. Associate Director 230 Richmond Street West Toronto, Ontario, M5V 1V9 416-596-1930 X1347 Fax: 416-596-0644 <a href="mailto:rstewart@ibigroup.com">rstewart@ibigroup.com</a>

<b>Project Role</b>	<b>Contact Information</b>
IBI Group Deputy Project Manager	Russell Brownlee, P. Eng. Associate 230 Richmond Street West Toronto, Ontario, M5V 1V9 416-596-1930 X1344 Fax: 416-596-0644 <a href="mailto:rbrownlee@ibigroup.com">rbrownlee@ibigroup.com</a>

### 7.3 Project Schedule and Project Progress

The TDC Project Implementation Plan and IBI Group Team proposal identified a one-month duration for Phase 3 of the study. It is proposed that this project timeline be maintained.

Project progress reports will be prepared in the format specified in the project RFP and as identified in the project schedule. Progress reports will be submitted prior to Project Steering Committee (PSC) meetings and approximately on a monthly basis.

### 7.4 Work Plan

Provided below is a summary of the detailed work plan for Phase 3 of the subject study. For each task, the activities, deliverables and assistance/data/information to be supplied by others are identified.

#### 7.4.1 TASK 3.1 – DEVELOP CONCLUSIONS AND RECOMMENDATIONS

For this task, the IBI Group Team will:

- Develop a set of risk mitigation strategies and outline the:
  - Primary benefits of each strategy and its application to a specific contributory factor or group of factors;
  - Implementation of pilot or trial projects, preliminary study designs (including potential deployment milestones) and future research requirements for each;
  - Probable delivery participants and if applicable, potential partnerships initiatives;
  - Budgetary level costs and potential funding sources; and
  - Potential barriers to implementation including legal, regulatory, project finance, technical, land owner acceptance.

Deliverables:

- To be incorporated into the Final Report.

Assistance/Data/Information to be Supplied by Others:

- None identified.

#### 7.4.2 TASK 3.2 – FINAL DOCUMENTATION

For this task, the IBI Group Team will:

- Prepare a draft of the final report in accordance with TDC Publication Standards and Guidelines for Contractors (TP 929), which will include:
  - An executive summary;
  - A description of data/information sources, study methodologies and task findings; and
  - Conclusions and recommendations including future directions and implementation thereof.
- Meet with the PSC (PSCM #10) to present the rationale behind the conclusions and recommendations and receive input.
- Prepare a final draft of the report, incorporating input from the PSC;
- Upon acceptance, digital and hard copies of the final report in English will be provided to the Technical Authority for translation; and
- Provide the Technical Authority with the final version of the reports.

#### Deliverables:

- Draft project report;
- Meeting minutes from PSC Meeting #10; and
- 100 copies in English and 50 copies in French of the final report. In addition, camera ready and digital copies of the report will be provided in accordance with Section 8.3 of the RFP.

#### Assistance/Data/Information to be Supplied by Others:

- Technical Authority and PSC to review and comment on the draft Project Report.

### 7.5 Phase 3 Budget

The Phase 3 Budget will be \$20,190.00. This represents no change from the current contract.

## APPENDIX A

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### **STAKEHOLDER INTERVIEW NOTES**



## Safety at Private Crossings – Crossing Owner #1

Discussion Item	Applicability
<p><i>Where are your private crossing(s) located? Were you the land owner/user prior to the crossing's construction, or has it always been there?</i></p> <p>The crossing is located at St-Charles de Bellechasse, Québec. The crossing has been there since we have owned the property.</p>	
<p><i>Do you know the railway name, the subdivision and the mileage point that corresponds to your crossing?</i></p> <p>The railway concerned is CN. The subdivision and mileage point are unknown.</p>	<b>T</b>
<p><i>Do you know whom to contact, and how to contact them, if a problem arises at your crossing?</i></p> <p>No.</p>	<b>M</b> <b>C</b>
<p><i>Could you briefly describe the characteristics of the private railway crossing, and the challenges you have met?</i></p> <p><i>Number of lanes to cross?</i></p> <p>One railway line.</p> <p><i>Type of surface on approach (i.e. paved, treated, boards, gravel/sand, etc.)?</i></p> <p>The approaches are gravel.</p> <p><i>The size, slope or state of the crossing?</i></p> <p>The approaches are one lane wide. The crossing is in good condition. The approach slopes were lessened compared to those that were there in the past.</p> <p><i>The physical environment surrounding the crossing (i.e. curves in the road or railway, hills or slopes, lines of sight, etc.)?</i></p> <p>The visibility is very good. The trees have been cut in order to ensure adequate visibility.</p> <p><i>Questions of maintenance?</i></p> <p>Maintenance is done well by CN.</p>	<b>M</b>      <b>M</b>
<p><i>Does your private crossing have a warning system or some other device that advertises the presence of an oncoming train (i.e. an automatic warning system, mirrors, etc.)?</i></p> <p>There are stop signs as well as crossbucks installed on either side of the line.</p>	<b>W</b>



*Applicability:*

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Discussion Item	Applicability
<p><i>Can you hear the train whistle beforehand from a nearby public crossing? If this is the case, do you consider this to be a significant security benefit for your crossing?</i></p> <p>No, the train's whistle at public crossings is not heard at this location.</p>	<p><b>W</b></p>
<p><i>Regarding private crossing(s) that you have or use:</i></p> <p><i>Who uses it? How often is it used? Are there times of day, week or year where the frequency of use changes significantly?</i></p> <p>The crossing is used by company employees, as well as owners of nearby neighbourhood cottages. The crossing is used from May to November, and is travelled more frequently Monday to Friday. There are approximately 50 to 60 users who use the crossing each day.</p> <p><i>What types of vehicles use the crossing (ex. Passenger vehicles, trucks, heavy equipment, recreational vehicles, farm equipment, etc.)? Do you know how long it takes these vehicles to cross?</i></p> <p>Cars, 10-wheel trucks transporting peat, tractors and low-floored tractor-trailers use this crossing. The approaches were modified so that the trucks with low floors could safely cross the railway.</p> <p>He is not sure of the time required to stop, to start up again and clear the crossing.</p> <p><i>Are there operating features of the vehicles that affect the detection of approaching trains or could have an impact on the release time of the crossing?</i></p> <p>No.</p> <p><i>Are there any particular conditions concerning line of sight or lighting that affect the crossing?</i></p> <p>No.</p> <p><i>Do all of the trains that travel on your crossing pass at about the same speed or do speeds vary significantly? Do you know at what speeds they move, approximately?</i></p> <p>The train speeds vary. Ultramar's "Ultra-Train" passes slowly. Other trains carrying passengers pass more quickly.</p> <p><i>What safety precautions or training, if necessary, do those using the crossing receive?</i></p> <p>There are regular meetings with employees. Employees are advised to obey the railway crossing stops at all times. No safety information was ever received from the railway.</p>	<p><b>U</b></p> <p><b>V</b></p> <p><b>T</b></p> <p><b>O</b></p> <p><b>T</b></p>



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Discussion Item	Applicability
<p><i>Can you comment on the effect of environmental conditions on visibility and the time it takes to travel across the crossing?</i></p> <p>No comment. The crossing is never used in the winter.</p>	
<p><i>What legislation are you aware of that affect crossing operations? Can you comment on exchanges or communication you've had with a rail company or with a regulator regarding possession, operations or access to your private railway crossing?</i></p> <p>He knows a little about legislation. They asked the railway to install a system with lights and barriers. The railway recommended a system that could be placed at the owner's expense at a cost of approximately \$300 000. They decided to keep the stop signs. In the case of a power failure, the stop signs would be safer than a system of lights that isn't functioning properly.</p>	<b>A</b>
<p><i>Based on your experiences, what modifications (physical or procedural) would you suggest to improve the safety of private crossings?</i></p> <p>The addition of lights and barriers would improve safety at this crossing. There has already been an incident at this crossing, where a train hit a truck. The train now whistles at the crossing.</p>	<b>C</b>
<p><i>Is there any other information or personal experience you would like to share relating to the overall safety of railway crossings or to a problem with your crossing?</i></p> <p>Safety is the primary goal at this location. He has always wanted to have an automatic warning system with lights and barriers, but doesn't understand why the costs are so high. He would like to get a subsidy for this system.</p> <p>They considered installing an ordinary traffic light at this location but this is not safe in a power outage. So, this type of system is not good enough. The system has to be safe at all times.</p>	<b>W</b> <b>C</b>



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## Safety at Private Crossings – Crossing Owner #2

Discussion Item	Applicability
<p>1. <i>Where is the location of your private crossing(s)? Did you own/use the property prior to the private crossing being built, or has it always been there?</i></p> <p>There are 2 crossings, located about 9.5 miles apart, leading from the highway to 2 camps. These crossings existed prior to his purchase of the land. These crossings give access to other peoples camps as well, and a lake, and also serve as a fire road for these camps.</p>	<b>U</b>
<p>2. <i>Do you know the name of the railway, subdivision, and mileage marker that correspond to your crossing?</i></p> <ul style="list-style-type: none"> <li>• North East Railway (former CN line);</li> <li>• One crossing is located at mile 34.1, but unsure of the name of the subdivision. The second crossing is located 9.5 miles from the first</li> </ul>	
<p>3. <i>Do you know who to contact, and how to contact them, in the case that there is a problem at your crossing?</i></p> <p>Yes, although it took some time to obtain this information, eventually the name of the correct contact person was provided by someone at Transport Canada, and the telephone number was found in the Yellow Pages.</p>	<b>M</b>



*Applicability:*

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Discussion Item	Applicability
<p>4. <i>Could you briefly describe the characteristics and any particular challenges you have with the private crossing?</i></p> <p>4.1. <i>Number of tracks to cross?</i></p> <p>One track to cross.</p> <p>4.2. <i>Approaches to the crossing, i.e., paved, surface treated, planks, gravel/dirt, etc.?</i></p> <p>One of the crossings is elevated, with a difference in elevation of about 8ft. from the ground to the rail, the approach grades are quite steep. The second crossing is quite flat. The crossing surfaces are made of planking, and the approaches are gravel.</p> <p>4.3. <i>Width, grade or condition of the crossing?</i></p> <p>The crossings are about 12ft wide.</p> <p>4.4. <i>Physical surrounding of the crossing, i.e., roadway or railway curves, hills or grade issues, sightlines, etc?</i></p> <p>The track is straight, for about 50 miles, visibility is good, except when brush is allowed to grow to the point where it restricts sightlines.</p> <p>4.5. <i>Maintenance issues?</i></p> <p>There have been difficulties with the crossing maintenance. There was a situation where a car caught the planking of the crossing, and subsequently a second car caught the planking. It took many phone calls before the crossing was repaired, initially the railway did not respond to the phone calls. Eventually, once the correct contact person was found (through Transport Canada) repairs were made.</p> <p>At one of the crossings, the railway does a poor job of ensuring that brush is cut to ensure that there are adequate sightlines for those using the crossing. In particular, sightlines are poor for passenger car drivers.</p>	<p>M</p> <p>C M</p> <p>M</p>
<p>5. <i>Does your private crossing have a warning system or other device that assists in determining the presence of an approaching train (i.e., automated warning system, mirrors, etc.)?</i></p> <p>No, there are no cross-bucks either. One of the crossings has a stop sign in place.</p>	<p>W</p>
<p>6. <i>Do you ever hear train whistles from nearby public crossings? If so, do you consider this to be a significant safety benefit to your crossing?</i></p> <p>Yes. There are public crossings located near both of the crossings. Train whistles at these crossings provide a significant safety benefit.</p>	<p>W</p>



*Applicability:*

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Discussion Item	Applicability
<p>7. <i>In relation to the private crossing(s) that you have or use:</i></p> <p>7.1. <i>Who uses the crossing? How often is it used? Are there particular times of the day, week or year, where the frequency of use changes significantly?</i></p> <p>The crossings are used by owners of the camps. There is no traffic in the winter, most use occurs in the summer and in the fall.</p> <p>7.2. <i>What types of vehicles use your crossing (e.g., passenger vehicles, trucks, heavy construction equipment, recreational vehicles, farm equipment, etc.)? Do you know how long it takes for those vehicles to clear the crossing?</i></p> <p>The crossing is used by passenger cars and ATVs. It only takes seconds for them to clear the crossing. In the past, once of the crossings was used by logging trucks (no longer the case, the land has now been cleared). The approaches were built up for use by the logging trucks at the time. Also, these trucks tended to block the highway (60 ft between the highway and the track) when crossing the track.</p> <p>7.3. <i>Are there any vehicle operating characteristics that affect the detection of approaching trains or that would impact its time to clear the private crossing?</i></p> <p>No.</p> <p>7.4. <i>Are there any particular sightline or lighting conditions that affect the operations at the private crossing?</i></p> <p>The only ongoing issue is brush that needs to be cleared as it blocks sightlines.</p> <p>7.5. <i>Are all the trains that pass your crossing travelling at roughly the same speed, or do their speeds vary significantly? Do you know approximately how fast they are moving?</i></p> <p>Speeds vary; there are passenger trains that travel at about 60mph, and freight trains that are slower. As well, there is a siding located close to one of the crossings, trains entering/exiting travel at different speeds. There are some slow orders at times as well.</p> <p>7.6. <i>What, if any, precautions or training are given to the people using the crossing in regards to safety?</i></p> <p>None.</p>	<p style="text-align: center;">U</p> <p style="text-align: center;">V</p> <p style="text-align: center;">M C</p> <p style="text-align: center;">O</p> <p style="text-align: center;">T</p>
<p>8. <i>Can you comment on the effects of environmental conditions on visibility and the time it takes to clear the private crossing?</i></p> <p>No problems experienced to date.</p>	



*Applicability:*

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Discussion Item	Applicability
<p>9. <i>What legislation are you aware of which affects the operation of the private crossing? Can you comment on any dealings or communications you have had with any railway or regulatory authority in relation to the ownership, operations or access relating to your private crossing?</i></p> <p>Dealings with the railway were not simple, until someone provided the correct contact person. Would like to know more about the status (farm/private) of the 2 crossings.</p>	<p><b>A</b></p>
<p>10. <i>Based on your experience, what modifications (physical or process-based) would you suggest to improve safety at private crossings?</i></p> <ul style="list-style-type: none"> <li>• Keep the brush cut to improve visibility;</li> <li>• Install stop signs at all private/farm crossings;</li> <li>• All crossings that do not have bells should have stop signs installed.</li> </ul>	<p><b>M</b></p> <p><b>W</b></p> <p><b>W</b></p>
<p>11. <i>Is there any other anecdotal information or personal experience that you would like to share, with respect to overall private crossing safety or your specific location?</i></p> <p>The owner was not provided any information about the crossings when he purchased the properties. He recently purchased his second parcel of land and was not provided any information about the crossing. He was later told that the crossing was a private one and that he would have to pay to maintain it, even though it leads to other peoples' property as well. Eventually it was determined that it is, in fact, a farm crossing.</p> <p>He is aware of an instance when someone sold their property because they were unable to use the property since the railway would not allow them to have a crossing in order to access it. The new property owner fought to have a crossing and was granted one in order to access the same plot of land.</p>	<p><b>A</b></p> <p><b>A</b></p>



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## Safety at Private Crossings – Crossing Owner #3

Discussion Item	Applicability
<p><i>Where are your private crossing(s) located? Were you the land owner/user prior to the crossing's construction, or has it always been there?</i></p> <p>The crossing existed before Robert Transport was present. The crossing is located in the middle of the land. The lot is cut by the railway line. Robert Transport purchased the land on the other side of the rail line. They received permission from CN to have a railway crossing.</p>	
<p><i>Do you know the railway name, the subdivision and the mileage point that corresponds to your crossing?</i></p> <p>The railway name is known (CN), and the other information is stored on file.</p>	
<p><i>Do you know whom to contact, and how to contact them, if a problem arises at your crossing?</i></p> <p>Yes. They have a toll-free number for CN. They have contacted CN in a case of defectiveness, broken equipment (barriers). There haven't been any incidents to date.</p>	



*Applicability:*

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Discussion Item	Applicability
<p><i>Could you briefly describe the characteristics of the private railway crossing, and the challenges you have met?</i></p> <p><i>Number of lanes to cross?</i></p> <p>One rail line.</p> <p><i>Type of surface on approach (i.e. paved, treated, boards, gravel/sand, etc.)?</i></p> <p>The crossing is paved, with mud rails.</p> <p>It consists of a private road with controlled access. The yards on either side of the rail line are fenced. The crossing was built according to very high standards and according to the requirements of the vehicles circulating. Also, there is private signalisation that was added and trained.</p> <p>The approaches are channelled with company barriers, which are equipped with a magic eye to sense vehicles (barriers do not work with pedestrians), giving access to the crossing situated ± 75 feet in front of the railway barriers. The private barriers do not lower if the truck has not yet completely crossed the passageway so that the truck can always cross completely. The approaches are constructed in such a manner that only one truck at a time in either direction can cross. Vigilance is required, nevertheless, because the yard barriers are not connected to those of the railway crossing. The fact that the yard barrier is open does not guarantee that there is no train. The railway lights should always be minded.</p> <p><i>The size, slope or state of the crossing?</i></p> <p>The approaches have a slight slope. The crossing is well maintained.</p> <p><i>The physical environment surrounding the crossing (i.e. curves in the road or railway, hills or slopes, lines of sight, etc.)?</i></p> <p>The lane is straight, without curves. The yard is mostly used for trailer parking. The approaches are well built and do not obstruct visibility.</p> <p><i>Questions of maintenance?</i></p> <p>Call the railroad in case of difficulties. There haven't been any problems he is aware of.</p>	
<p><i>Does your private crossing have a warning system or some other device that advertises the presence of an oncoming train (i.e. an automatic warning system, mirrors, etc.)?</i></p> <p>Yes, there is a complete system with flashing lights, warning sounds and barriers.</p> <p>Additionally, there is a sign describing the "modus operandi" to use the crossing and the approaches (company barriers, railway barriers, etc.)</p>	



*Applicability:*

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Discussion Item	Applicability
<p><i>Can you hear the train whistle beforehand from a nearby public crossing? If this is the case, do you consider this to be a significant security benefit for your crossing?</i></p> <p>Yes, there is a public crossing located ± 300 metres from this private crossing.</p>	
<p><i>Regarding private crossing(s) that you have or use:</i></p> <p><i>Who uses it? How often is it used? Are there times of day, week or year where the frequency of use changes significantly?</i></p> <p>The crossing is used often. There are few times when the crossing is not used. The crossing is a connection between two areas. There are lots of heavy vehicles that travel between the two yards. The yards are made up of warehouses, parking and offices.</p> <p>The crossing is used more often during rush hours (05:00 to 08:00 and 15:00 to 19:00)</p> <p><i>What types of vehicles use the crossing (ex. Passenger vehicles, trucks, heavy equipment, recreational vehicles, farm equipment, etc.)? Do you know how long it takes these vehicles to cross?</i></p> <p>There are some cars, but mostly trucks, heavy equipment and semi-trailers, which roll at low speed.</p> <p>Trucks with 53 ft trailer take ± 5 to 8 seconds to traverse the crossing.</p> <p><i>Are there operating features of the vehicles that affect the detection of approaching trains or could have an impact on the release time of the crossing?</i></p> <p>Yes. Drivers should never change gear when crossing the rail line (manual transmission). With the new automatic transmissions, the clutch is computer controlled but the vehicle still should not stop and start while crossing the rail line. For this type of transmission, there can be a slight delay when starting to move the truck forward. So, drivers must still pay attention to avoid action that could cause the truck to stop, even with an automatic transmission. Ex. Drivers have a bad habit of stopping after they've crossed the barrier if they see the lights begin to flash.</p> <p>This crossing is built at a 90° angle to the railway line. The long truck cabins do not impair the visibility of this type of crossing. On the other hand, if the crossing angle is more severe, the driver must stop and get up to see out of the passenger window to see what is on the right-hand side of the vehicle (based on experiences at other locations.)</p>	



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Discussion Item	Applicability
<p><i>Are there any particular conditions concerning line of sight or lighting that affect the crossing?</i></p> <p>Well lit even at night (the yard is well lit), visibility is not a problem.</p> <p><i>Do all of the trains that travel on your crossing pass at about the same speed or do speeds vary significantly? Do you know at what speeds they move, approximately?</i></p> <p>The speeds of the trains can vary. This crossing is located near a residential area and a switchyard where there are railway operations. There are no passenger trains and the trains do not travel at high speeds.</p>	
<p><i>What safety precautions or training, if necessary, do those using the crossing receive?</i></p> <p>Training is given to operators and there are clear guidelines attached to the crossing, which are useful to all, but mostly for the drivers of non-company cars that are driving in the yards.</p> <p>Also, there is some training given to non-drivers that includes general safety training.</p>	
<p><i>Can you comment on the effect of environmental conditions on visibility and the time it takes to travel across the crossing?</i></p> <p>There are few difficulties (system automated with barriers) in addition to the company barriers. The drivers are aware of the crossing because is it very well marked.</p> <p>Visibility is nevertheless good (locomotive light) even with rain and snow. Fog is very rare.</p>	
<p><i>What legislation are you aware of that affect crossing operations? Can you comment on exchanges or communication you've had with a rail company or with a regulator regarding possession, operations or access to your private railway crossing?</i></p> <p>The only known legislation is the road safety code.</p> <p>There have been no exchanges with rail companies except for repair.</p>	
<p><i>Based on your experiences, what modifications (physical or procedural) would you suggest to improve the safety of private crossings?</i></p> <p>Having driven the trucks in the large rail company yards, there should be improvements to the crossing angle (an angle hinders visibility) and there should be indications and lights/barriers to the crossings in the yards, particularly since there are other vehicles travelling around.</p>	



*Applicability:*

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Discussion Item	Applicability
<p><i>Is there any other information or personal experience you would like to share relating to the overall safety of railway crossings or to a problem with your crossing?</i></p> <p>In situations where barriers are broken by a truck, the cause is often hesitation on the part of the driver when the lights start to flash.</p> <p>It would be desirable for the barriers of the company to be interconnected with those of CN. It seems it is not possible.</p>	



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## Safety at Private Crossings – Crossing Owner #4

Discussion Item	Applicability
<p>1. <i>Where is the location of your private crossing(s)? Did you own/use the property prior to the private crossing being built, or has it always been there?</i></p> <p>The crossing is located off the highway, 4.5 miles south of Carberry, Manitoba, and it gives access from the highway to the golf course. There is about 70 to 80 feet between the highway and the track. The crossing is at 90% to the track.</p> <p>The crossing was already there when the land for the golf course was purchased in 1983 (the land was a farm before).</p>	
<p>2. <i>Do you know the name of the railway, subdivision, and mileage marker that correspond to your crossing?</i></p> <p>The track belongs to Canadian National, on the Carberry Subdivision, unsure of the mileage point.</p>	<b>M</b>
<p>3. <i>Do you know who to contact, and how to contact them, in the case that there is a problem at your crossing?</i></p> <p>If there is a problem, they are to contact CN in Brandon, Manitoba, unsure of the telephone number to use.</p>	<b>M</b>
<p>4. <i>Could you briefly describe the characteristics and any particular challenges you have with the private crossing?</i></p> <p>4.1. <i>Number of tracks to cross?</i></p> <p>One track to cross.</p> <p>4.2. <i>Approaches to the crossing, i.e., paved, surface treated, planks, gravel/dirt, etc.?</i></p> <p>The approaches are gravel.</p> <p>4.3. <i>Width, grade or condition of the crossing?</i></p> <p>The crossing was rebuilt last year and is in excellent condition. The approaches are flat and are 16 to 20 feet wide.</p> <p>4.4. <i>Physical surrounding of the crossing, i.e., roadway or railway curves, hills or grade issues, sightlines, etc?</i></p> <p>There is a curve in the track about 800 yards away from the crossing, with a steep grade. There is good visibility to the end of the curve on one side, and on the other side of the crossing there is good visibility for at least 1 mile.</p> <p>4.5. <i>Maintenance issues?</i></p> <p>The crossing is very well maintained.</p>	<b>M</b>



*Applicability:*

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Discussion Item	Applicability
<p>5. <i>Does your private crossing have a warning system or other device that assists in determining the presence of an approaching train (i.e., automated warning system, mirrors, etc.)?</i></p> <p>There are crossing signs and stop signs on both sides of the tracks. There are no lights, bells or crossing arms.</p>	<b>W</b>
<p>6. <i>Do you ever hear train whistles from nearby public crossings? If so, do you consider this to be a significant safety benefit to your crossing?</i></p> <p>There is a public crossing about 1 mile away, but they don't always hear the train whistle. The train speeds are low, about 15 mph, so it takes a while for the train to get to the golf course crossing. The whistle at the public crossing does not provide much of a safety benefit.</p>	<b>W</b>



*Applicability:*

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Discussion Item	Applicability
<p>7. <i>In relation to the private crossing(s) that you have or use:</i></p> <p>7.1. <i>Who uses the crossing? How often is it used? Are there particular times of the day, week or year, where the frequency of use changes significantly?</i></p> <p>The crossing is used by golf course users (members and the public). The course is open from April until the end of October. There are a few hundred cars per day, plus occasional delivery trucks. As well, one farmer uses the crossing a few times per year to haul hay from land that the golf course leases out to him.</p> <p>7.2. <i>What types of vehicles use your crossing (e.g., passenger vehicles, trucks, heavy construction equipment, recreational vehicles, farm equipment, etc.)? Do you know how long it takes for those vehicles to clear the crossing?</i></p> <p>90% of the vehicles using the crossing are passenger cars, the remaining 10% is delivery trucks and the occasional farm truck and hay wagon. It takes a few seconds for cars to cross the tracks.</p> <p>7.3. <i>Are there any vehicle operating characteristics that affect the detection of approaching trains or that would impact its time to clear the private crossing?</i></p> <p>No.</p> <p>7.4. <i>Are there any particular sightline or lighting conditions that affect the operations at the private crossing?</i></p> <p>Nothing significant. There are dusk to dawn lights in the parking lot located about 100 yards away from the crossing, and the trains have bright lights.</p> <p>7.5. <i>Are all the trains that pass your crossing travelling at roughly the same speed, or do their speeds vary significantly? Do you know approximately how fast they are moving?</i></p> <p>All trains travel at about 15mph, there is a steep grade limiting their speed. There is 1 coal train per day plus the occasional extra train.</p> <p>7.6. <i>What, if any, precautions or training are given to the people using the crossing in regards to safety?</i></p> <p>No particular training or precautions are given.</p>	<p>U</p> <p>V</p> <p>O</p> <p>T</p>
<p>8. <i>Can you comment on the effects of environmental conditions on visibility and the time it takes to clear the private crossing?</i></p> <p>There have been no issues to date, no fog or adverse conditions. As well, there is good visibility and train speeds are slow.</p>	



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Discussion Item	Applicability
<p>9. <i>What legislation are you aware of which affects the operation of the private crossing? Can you comment on any dealings or communications you have had with any railway or regulatory authority in relation to the ownership, operations or access relating to your private crossing?</i></p> <p>Pleased with dealings with the railway to date. At one point, CN wanted to close the crossing. The golf course has rights to a crossing at another location, however this second location is on a curve in the track. In the end, CN agreed to leave the crossing in its existing location. The golf course has an agreement in place with the railway and pays maintenance fees for the crossing.</p>	<b>A</b>
<p>10. <i>Based on your experience, what modifications (physical or process-based) would you suggest to improve safety at private crossings?</i></p> <p>The crossing to the golf course is quite safe. The addition of flashing lights and a bell would further enhance safety as they draw extra attention to the crossing.</p>	<b>W</b>
<p>11. <i>Is there any other anecdotal information or personal experience that you would like to share, with respect to overall private crossing safety or your specific location?</i></p> <p>Nothing further.</p>	

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## Safety at Private Crossings – Crossing Owner #5

Discussion Item	Applicability
The crossing was first authorized in 1992 for the previous owner; the crossing agreement was transferred/renewed, by the owner's son, when the land was purchased.	<b>A</b>
If there were ever a problem with the crossings, the owner would contact the track maintenance supervisor for the area.	<b>O</b>
<p>Crossing Characteristics:</p> <ul style="list-style-type: none"> <li>• One set of tracks to cross (used to be two);</li> <li>• Approaches are gravel roads;</li> <li>• There is a downhill grade leading towards the crossing on the road side (terrain is level at the crossing), there is a locked gate near the crossings on the road side, which was request by CP as part of the crossing agreement;</li> <li>• The crossing surface is approximately 25 feet wide (standard is 16 feet); and</li> <li>• As part of the crossing agreement, the owner is responsible for clearing brush around the crossing; the railway does all other maintenance.</li> </ul>	<b>A, S, O</b>
There are whistle posts on at least one (probably both) side of the crossing; on that side the tracks curve in the distance. There are no other warning systems at the crossing.	<b>W</b>
Camp members are the only ones authorized to use the crossing. There are 20 members, but only 10 have cabins on the land, at present. The crossing is used infrequently in the winter.	<b>U</b>
Traffic at the crossing is composed of passenger cars and pickup trucks.	<b>V</b>
All trains that pass the crossing are travelling roughly the same speed (50-60mph), and they are all freight trains.	<b>V</b>



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Discussion Item	Applicability
<p>All crossing user are told to keep the gate closed and locked at all times, as stipulated in the crossing agreement. The requirement to stop, get out of the vehicle, and unlock/open the gate when crossing acts as a safety procedure, and requires users to think about the crossing often.</p>	<p><b>S, T</b></p>
<p>Winter maintenance (e.g., snow clearing) conducted by the railway prevents any environmental issues at the crossing.</p>	<p><b>M</b></p>
<p>In general, the experience of dealing with the railway has been easy and friendly. The owner pays an annual fee for the crossing and also has liability insurance for the crossing, as part of the agreement with the railway.</p>	<p><b>A</b></p>
<p>Whistle posts at all private crossing accessible to the public would be a good way of improving safety.</p>	<p><b>W</b></p>



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## Safety at Private Crossings – Crossing Owner #6

Discussion Item	Applicability
The crossing is about 3km outside of the town of Wabigoon, ON. It is a driveway crossing on the north edge of the property. The current owner acquired the land in 1998; however, the owner estimates that the crossing has been around for about 80 years.	<b>A</b>
The only communications between the owner and the railway have been related to the payment of the annual crossing fees.	<b>A</b>
<p>Crossing characteristics:</p> <ul style="list-style-type: none"> <li>• 2 sets of tracks;</li> <li>• Gravel road approaches;</li> <li>• Crossing surface is timber planks (roughly 16' wide);</li> <li>• The approach from the road to the crossing is fairly level and there is a slight grade from the property to the crossing;</li> <li>• Visibility at the crossing is good (open fields, no hills, curves or cuts); and</li> <li>• There have been no issues with respect to crossing maintenance.</li> </ul>	<b>C, M</b>
The only warning devices at the crossing are crossbucks.	<b>W</b>
There is a public crossing approximately a half-mile to the east. The train whistle for that crossing can be heard, and the owner considers that a safety benefit.	<b>W</b>
There are two homes on the property; family and friends of the homeowners use the crossing, as do patrons of the weekend storage business that is operated by the owner. Vehicle composition is mostly passenger cars; however, storage traffic can include RVs, boats on trailers, and infrequently tractor-trailers.	<b>U, V</b>



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Discussion Item	Applicability
Most of the trains that pass the crossing are traveling the same speed (estimates roughly 50mph).	U
Crossing users are given no formal training.	T
It is possible that the approaches could get slippery if there was freezing rain; the municipality owns the road on both sides of the crossing, and they are responsible for snow removal and de-icing.	O
The owner is not familiar with the regulations that govern private crossings. Plans to further develop the land were disrupted when the municipality sided with the railway's objections to the development.	R, A
Safety could be improved through better communications between the railway and owners, enforceable safety regulations, and "simple" automatic warning systems.	A, R, W
There have been a number of crossing incidents in the area recently, so the general public might be more aware of the dangers, and it might be a good time to enact an education campaign.	T

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## Safety at Private Crossings – Crossing Owner #7

Discussion Item	Applicability
Three adjacent landowners use the crossing for farming purposes. There is also a cattle underpass at this location (not in use). At times, there is a worn, dirt path that links the crossing to Fairview Line.	<b>U</b>
The relative location of the crossing and subdivision name are known, but not the exact mileage.	
Owner is aware of the 1-800 emergency contact numbers for crossings, but doesn't have the number at home.	<b>T</b>
<p>Crossing Description (photos were provided by owner):</p> <ul style="list-style-type: none"> <li>• Crosses 2 sets of tracks;</li> <li>• Approaches are grass and dirt with a 6-8% grade;</li> <li>• Crossing surface: wood planking, asphalt, and loose stone (currently in a state of disrepair, but according to track supervisor maintenance is scheduled);</li> <li>• Adjacent land on both sides is flat ploughed fields; and</li> <li>• Sightlines were cleared in recent years and generally allow for good visibility.</li> </ul>	<b>M</b>
The crossing currently features no advanced warning systems or signage.	<b>W</b>
Trains must whistle at the HWY 40 crossing, which can be heard at the private crossing.	<b>W</b>
Crossing users consist of three people from three farms and on rare occasions a neighbour. The crossing is used an average of 10 times per year between may and October.	<b>U</b>



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Discussion Item	Applicability
The vehicles using the crossing are farm pickups and tractors with ploughs, which take a maximum of 1 minute to make a crossing.	<b>V</b>
No formal training is provided to crossing users, they all use cautions and their own discretion when crossing.	<b>T</b>
The crossing was established “by right” many years ago. The current owner is the third owner of the land divided by the railway.	<b>A</b>
<p>Safety Improvement Recommendations:</p> <ul style="list-style-type: none"> <li>• Safety information mailed along the annual crossing invoice;</li> <li>• Warning signs (e.g. crossbucks);</li> <li>• Post emergency contact numbers at private crossings; and</li> <li>• Gates are not necessary in most cases.</li> </ul>	<b>S, T, W</b>



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## Safety at Private Crossings – Crossing Owner #8

Discussion Item	Applicability
There is a CN depot just down the road that is where he would go if there were a problem at one of the crossings. He also has the mailing address for a contact a CN if there were a less urgent issue.	<b>O</b>
<p>Crossing characteristics are as follows:</p> <ul style="list-style-type: none"> <li>• Two sets of tracks;</li> <li>• Gravel/dirt approach, which is pretty steep and should probably be longer;</li> <li>• Surface is 20' wide timber planks;</li> <li>• The land on both sides of the crossings is worked (i.e., fields);</li> <li>• The crossing at the 210.1 mark is on a curve (CN has expressed that they would like to close the crossing due to sightline issues; and</li> <li>• All three crossings are well maintained.</li> </ul>	<b>C, M</b>
There are no warning systems at any of the crossings. A letter was received from CN stating that they were going to install mirrors at the crossing, but it never happened.	<b>W</b>
There is a public crossing at a side road 1 mile east of the crossings where trains whistle, and it provides some advanced warning of westbound trains.	<b>W</b>
The owner and part-time help are the only users of the crossing. The crossing is used almost daily in the spring, summer, and fall, but very infrequently in the winter.	<b>U</b>
Traffic at the crossing is made up of pickup trucks and various types of farm equipment.	<b>V</b>
Train speeds vary significantly, the crossings are located on a high-speed corridor. Both passenger trains and freight trains used the corridor (46 trains per day, 24 passenger and 22 freight).	<b>U, V</b>



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Discussion Item	Applicability
<p>The only recent dealing between the owner and the railway company has been regarding the closure of the crossing at mile 210.1. In the past the railway has been very good about reinstalling the crossings when they have been removed for track maintenance.</p>	<p><b>O</b></p>



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## Safety at Private Crossings – Crossing Owner #9

Discussion Item	Applicability
Bear's Pass, ON, roughly a half-mile from milepost 68.1 (i.e., mile 68.6), established in 1943 or 1944, crossing "by grace."	<b>A</b>
Have the telephone number for the CN Road Master in case of emergencies or issues related to the crossing.	<b>C</b>
<p>Crossing characteristics:</p> <ul style="list-style-type: none"> <li>• One set of tracks;</li> <li>• Gravel road approach;</li> <li>• Timber plank crossing surface;</li> <li>• One side of the crossing is in a rock cut, the other is open;</li> <li>• There is a hydro right-of-way at the same location; and</li> <li>• Maintenance is carried out by CN and has never been a problem.</li> </ul>	<b>C, M</b>
CN asked to have a mirror installed at the crossing because of the rock cut. The owners also installed a gate and turning circle between the crossing and the road, and they put up signs that inform others to the gate and crossing. CN posted "use at own risk" and stop signs at the crossing.	<b>S, W</b>
Trains whistle at the lift bridge approximately a half-mile east of the crossing and 100-150m west of the crossing there is a whistle post.	<b>W</b>
Only family and friends use the crossing, and it is used almost exclusively in the summer and on weekends. There used to be a lot of hunters that would use the crossing, but the gate and signs have pretty much stopped that.	<b>U</b>
Traffic at the crossing is composed of mostly passenger vehicles with some hydro and CN vehicles and the odd snowmobile in the winter.	<b>V</b>



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Discussion Item	Applicability
Trains passing the crossing are travelling at slower speeds as they approach and depart the lift bridge. The trains haul mostly grain and coal. Over the past few years, the frequency of trains has decreased, but they are longer than they used to be.	<b>U</b>
Family have been using the crossing they whole lives. No formal training is provided for crossing users.	<b>T</b>
Owner’s father negotiated the original crossing agreement. The agreement has been transferred to the current owners. Generally, a fee is paid on a 5-year basis for the use and maintenance of the crossing.	<b>A</b>



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## Safety at Private Crossings – Crossing Owner #10

Discussion Item	Applicability
It is estimated that the club uses more than 400 crossings across the province. Every crossing was established through an agreement with the appropriate railway company and/or a landowner.	<b>A</b>
Railroad contacts are identified in through the crossing agreements. However, in an emergency, members contact local authorities, who, in turn, will contact the appropriate railway personnel.	<b>O</b>
Given the large number of crossings that the club deals with, it is impossible to comment on the physical characteristics of each one; however, the railways work with the clubs to ensure that the crossings meet their needs.	<b>C</b>
Not aware of any type of automated warning system at any of the private crossings. All crossings are supposed to have stop ahead (100-120m out) and stop signs. Drivers are required by law to stop at every crossing. Police patrol trails.	<b>W, R</b>
None of the private crossings have whistle posts, but those that are near public crossings might get some benefit form whistling.	<b>W</b>
Crossing users are primarily club members, trespassing is only a minor issue. The peak season goes from early January to late February. Rail companies used to remove crossings in the off-season, but now they leave them in year-round.	<b>U</b>
In addition to snowmobiles, trail groomers also use the crossings, and they can be as long as 50 feet. Some multi-use trails may also be used by ATVs.	<b>V</b>
Operating characteristics of snowmobiles are not a major concern at private crossings (i.e., they don't require much time to cross and stopping distances are not excessive).	<b>V</b>



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Discussion Item	Applicability
The crossings can be over single or multiple sets of tracks (mainline or sidings), trains speeds range from approximately 60mph down. No club crossings cross high-speed corridors.	<b>O</b>
Rail crossings are addressed specifically in the motorized snow vehicle act. Drivers must stop at all rail crossings. Drivers between the ages of 12 and 16 year of age are required to take a mandatory course before they can be licensed (some adults take the course too); the course highlights railway crossings safety.	<b>R, T</b>
Communications with the railways have been very positive. The railways are quick to point out any issues or deficiencies at crossings, and they ensure that those issues get resolved promptly.	<b>C</b>
The existing signage and rule seem to be working. Building up the approach with snow can often be an effective way of treating approach grade issues. A greater police presence on the trails would be welcome.	<b>O, W</b>
Safety awareness campaigns are generally well received by the club members, and effective in informing them of safety issues.	<b>T</b>

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## Safety at Private Crossings – Crossing Owner #11

Discussion Item	Applicability
<p>There are 10 private crossings authorized for club use (4 CN, 3CP, and 3INCO). All of the crossings were established through negotiations with the railways and landowners (for land use permission). The club has the subdivision and milepost information for all of the crossings on file; they also have contacts in both the real estate and engineering departments of the railways.</p>	<b>A</b>
<p>Crossing characteristics:</p> <ul style="list-style-type: none"> <li>• One crossing is for mainline and a siding, all the rest are single track crossings;</li> <li>• The approaches are made of dirt or gravel and the trails are groomed in the winter;</li> <li>• An effort has been made to ensure that all crossings are level (i.e., no significant grade at the tracks);</li> <li>• Crossing surfaces are either 10 or 12 feet in width, made of timber planks;</li> <li>• Surrounding land uses vary, but there are no sightline issues at any of the crossings;</li> <li>• The crossings are maintained by the railways for a fee; and</li> <li>• Signage is provided by the club and is in place year-round.</li> </ul>	<b>O, M</b>
<p>There are no automated warning systems at any of the crossings.</p>	<b>W</b>
<p>Don't know of any whistle posts near crossings and given engine noise and helmets, users might not hear them regardless.</p>	<b>W, C</b>
<p>Two of the club's crossings are shared with hydro; the others are for the exclusive use of club members (non-members are trespassing). The crossings are used exclusively in the winter.</p>	<b>U</b>
<p>Snowmobiles, groomers, and hydro vehicles use the crossings. The groomers are the greatest safety concern, given that they can be over 30 feet long and travel at 10km/h.</p>	<b>V, C</b>



*Applicability:*

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Discussion Item	Applicability
Train speeds at the crossings vary, but the maximum is about 50-60mph. There are no high-speed corridors crossings.	<b>U</b>
Groomer operators are asked to stop, look both ways, open the doors, and proceed with caution at all crossings.	<b>T</b>
Members are required (through the motorized snow vehicle act) to stop at all crossings; the club also encourages them to shut off their machines and listen for trains.	<b>T</b>
The club also conducts educational programmes with CN and CP Police Services at schools and community events.	<b>T</b>

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## Safety at Private Crossings – Crossing Owner #12

Discussion Item	Applicability
The crossing is a driveway crossing; it is accessible to the public, and has been there as long as the owner has owned the land. The crossing is most likely a crossing “by grace.”	<b>A</b>
If there were ever a problem with the crossing they would contact Rail Term (they do all of the track maintenance in the area).	<b>O</b>
<p>Crossing characteristics:</p> <ul style="list-style-type: none"> <li>• There is one set of tracks at the crossing;</li> <li>• The approach on one side of the crossing is paved, the other side is gravel, and the approach is relatively level;</li> <li>• The crossing is sufficiently wide for all traffic;</li> <li>• The property is tree lined on the business side and vehicles must go slowly up to the crossing; and</li> <li>• Rail Term carries out all crossing maintenance.</li> </ul>	<b>M</b>
The crossing has no automatic warning systems. There are stop signs, but they are small and easily overlooked.	<b>W</b>
Train whistles can be heard from a nearby public crossing as they approach the private crossing in one direction.	<b>W</b>
Crossing users consist of employees, suppliers, and sometimes solicitors. There is less traffic in the winter.	<b>U</b>
The composition of traffic at the crossing varies from passenger cars and pickup trucks to transport trucks and dump trucks. The transport trucks have to back into the property (the owner always assigns an observer to help) and they occupy the crossing for a maximum of 30 seconds.	<b>V</b>



*Applicability:*

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Discussion Item	Applicability
There are no sightline issues beyond the tree line, which is set back from the crossing.	<b>C</b>
The trains that pass the crossing are almost all high-speed commuter trains (100mph), and there is usually one freight train per night.	<b>V</b>
The owner warns all expected visitors of the crossing prior to their arrival, and provides observers when necessary. Employees are all aware of the trains and the use of the crossing.	<b>T</b>
The only communications that they've had with railway officials have been regarding looking into alternative access options (i.e., closing the crossing). It is unlikely that the funding offered would cover the costs of constructing a new driveway that would connect to the road and not cross the tracks.	<b>A, S</b>



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# Safety at Private Crossings – Railway Industry Stakeholders #1

Discussion Item	Applicability
<p>Factors contributing to collisions:</p> <ul style="list-style-type: none"> <li>• Sightlines – in addition to environmental obstructions (e.g. brush, buildings, etc.), sightline are sometimes blocked by the large side mirrors on the vehicles themselves;</li> <li>• Driver behaviour – drivers are often distracted and inattentive when using crossings at times they simply ignore warning signs and even stop signs at seldom used crossings; and</li> <li>• Vehicle and crossing characteristics – vehicle speed, crossing grade and angle, crossing surface condition, etc.</li> </ul>	<b>C</b>
<p>Poor maintenance of crossing surface and/or sightlines are common deficiencies. If it is not possible to achieve the desired sightlines at a crossing, additional warning systems (e.g. whistle posts) can be recommended.</p>	<b>C, M, W</b>
<p>Generally, crossing users/owners are willing and quick to comply with safety advisories.</p>	<b>C</b>
<p>Emergency contact 1-800 numbers should be clearly posted at all farm and private crossings.</p>	<b>W</b>
<p>Any private crossings that are accessible to the general public should feature full identification (e.g. crossbucks).</p>	<b>W</b>
<p>A TV add campaign focussing on farm crossing safety would be particularly beneficial. There seem to be fewer television commercials related to crossing safety these days then there were a couple years ago.</p>	<b>T</b>

**Applicability:**

# Safety at Private Crossings – Railway Industry Stakeholders #2

Discussion Item	Applicability
<p>Factors contributing to Collisions:</p> <ul style="list-style-type: none"> <li>• Approach conditions (e.g. geometric design, grade, materials, and maintenance);</li> <li>• User complacency; and</li> <li>• Driver inattention or lack of training.</li> </ul>	<b>C</b>
<p>TSB identifies safety deficiencies at crossings and reports them to Transport Canada. Transport Canada then decides what improvements should be made to improve safety.</p>	<b>C, O</b>
<p>TSB issues an Investigation Report or Safety Advisory to Transport Canada, and then TSB evaluates the response by Transport Canada. TSB investigators have very little contact (usually only during the investigation) with crossing owners/users.</p>	<b>O</b>
<p>High-speed commuter rail lines (e.g. CN Kingston subdivision) are the main safety concern with respect to crossing.</p>	<b>C</b>
<p>Education/Training: Local and Railway police organizations are doing a good job educating school-aged children about railway crossing safety. However, adults don't regularly tend to congregate in such large groups, which makes it harder to get the message to them.</p>	<b>T</b>
<p>Regulations should require crossing owners and users to inform the railways of the types of vehicles using the crossings, and the owners/users should have to inform the railways of changes in the types of vehicles and/or goods crossing.</p>	<b>U, R, V</b>
<p>Transport Canada need to have the authority to enforce the closure or consolidation of redundant or unsafe crossings.</p>	<b>R, A</b>

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**Applicability:**

**A** – Arbitration or Negotiations, **C** - Collision Risk/Safety Issues, **M** – Crossing Maintenance, **O** - Operations and Maintenance Procedures, **R** - Regulations, **S** – Crossing Security and Access, **T**- Training/Awareness, **U** – Crossing Utilization, **V** – Types of Vehicles, **W** – Warning System/Signage



## Safety at Private Crossings – Railway Industry Stakeholders #3

Discussion Item	Applicability
Via has a vested interest in this study, and would like to see the industry take a proactive approach to private crossing safety using remote warning systems (e.g., pilot studies similar to the one for remote public crossings done by UNB).	
The current standards and regulations for establishing private crossings are reasonable; however, there should be some legislation put in place for consolidating (redundant) existing crossings (e.g., 3 crossings on one plot of land).	<b>R</b>
Crossings “by right” can become an issue in land mergers or where development makes crossings unnecessary, whereby the right still exists, but there is a safer alternative to a private crossing(s).	<b>R</b>
The proposed RTD-10 guidelines are comparatively user-friendly and provide a step-by-step process for crossing design. The consideration for a design vehicle is also a step in the right direction; however, at present there is no requirement for users to inform the railways of changes in operating vehicle type, and inspection/observation is the only way of getting information.	<b>R, U, V</b>
High-speed trains travelling at 80-100mph can require sight lines of 2000’ or more to provide advance warning via whistles.	<b>R, W</b>
Crossing approach grades and materials have a significant impact on vehicle operating characteristics. Crossing surface condition and width are just as important when it comes to affecting crossing time/speed.	<b>C, M</b>
Vehicle type is a definite issue, the size, speed, and manoeuvrability of the vehicle all affect the time required for it to clear the crossing. Also, the contents of the vehicle (e.g., dangerous goods) are a concern.	<b>V</b>
Noise in the driver cab can over power the sound of train whistles.	<b>V, W</b>



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Discussion Item	Applicability
There is a concern that current education programmes are not getting the information to the actual crossing users (e.g., farm hands, migrant workers, machinery operators, delivery people).	<b>T</b>
Many private crossings are in isolated locations, which poses a problem given that the primary means of reporting a collision risk at a crossing is via telephone.	<b>C, W</b>
Mirrors and pedestrian heads at private crossings are helpful, but can't be used at all locations where sight lines are an issue or warning systems are required.	<b>W</b>
There is definite interest in seeing some pilot deployments of stand-alone warning systems using solar panels, LED lights, and track sensors. In general, there is interest in exploring potential uses for new technologies in private crossing warning systems.	<b>W</b>

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## Safety at Private Crossings – Railway Industry Stakeholders #4

Discussion Item	Applicability
An engineer's knowledge of his territory (including the locations of private crossings) is based primarily on experience and information shared with other engineers. Engineers often rely on visual reference points to orient themselves along their routes.	<b>T</b>
Via locomotive engineers generally work one territory for their entire career, which allows them to become very familiar with the routes.	<b>T</b>
Unsafe or potentially dangerous situations are encountered quite frequently at private crossings, particularly in the summertime and during the framing season; most such situations result from drivers being distracted by a variety of outside factors.	<b>C</b>
Recreational vehicles and farm equipment are more frequently involved in near misses at private crossings than passenger vehicles. Tractor-trailers are generally not an issue at crossings, which could be a result of their drivers having a better understanding/familiarity of their equipment and surroundings. The general public seem to be less familiar with crossing environments (quasi public crossings) and often appear more distracted (e.g., radios and cell phones).	<b>C</b>
A crossing's location relative to curves or hills is one characteristic that contributes significantly to collision risk.  Multiple tracks at a crossing is also a serious concern (second train incidents).	<b>C</b>
Inadequate sightlines (resulting from curves, hills or overgrown brush) are a serious collision risk.	<b>C</b>



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Discussion Item	Applicability
<p>The public needs to be better informed of the dangers that exist at private crossings, this could be achieved through:</p> <ul style="list-style-type: none"> <li>• Rail police education programmes;</li> <li>• Adds on the sides of buses and/or locomotive engines; and</li> <li>• Handing out information pamphlets along with drivers licence renewals.</li> </ul>	<p><b>T</b></p>
<p>Farmers and recreational groups need to be targeted and emphasis needs to be placed on private crossing safety in add campaigns.</p>	<p><b>T</b></p>

*Applicability:*

## Safety at Private Crossings – Railway Industry Stakeholders #5

Discussion Item	Applicability
<p>When a landowner and a railway company are unable to reach an agreement regarding the construction of a private crossing, the Canadian Transportation Agency (CTA) will hear their arguments, and determine if the construction of a crossing should be authorized.</p>	<b>A</b>
<p>The railway companies generally have three common (i.e., none site specific) requests when it comes to constructing a crossing:</p> <ul style="list-style-type: none"> <li>• That the landowner pay an annual fee for the right to a crossing;</li> <li>• That the landowner show proof of having liability insurance for the crossing (\$5M); and</li> <li>• That the landowner agrees to a provision stating that the railway company can terminate the crossing agreement given 30 days notice.</li> </ul> <p>Inability (due to prohibitive costs) or unwillingness on the part of the landowner to meet these requests often results in the case ending up at a CTA hearing.</p>	<b>A</b>
<p>If the railroad company sites a safety issue as a reason for opposing the construction of a crossing, Transport Canada will be asked by the CTA to evaluate the concern and determine what is necessary to ensure a safe crossing.</p>	<b>C</b>
<p>The CTA authorizes the construction of private crossings on one of two conditions:</p> <ul style="list-style-type: none"> <li>• “By right,” (Section 102 of the Canada Transportation Act) where private land has been subdivided by the construction of a railway, and the landowner is entitled to a crossing (to be constructed and maintained at the expense of the railway); or</li> <li>• “By grace,” (Section 103 of the Canada Transportation Act) where a landowner requires a crossing for access to and proper enjoyment of his land (in this case the costs of construction and maintenance are incurred by the landowner).</li> </ul>	<b>R</b>



*Applicability:*

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Discussion Item	Applicability
<p>The rulings handed down by CTA tribunals are based on precedent; as such, the decisions reached are very consistent.</p>	<b>A</b>
<p>Whether a crossing is authorized “by right” or “by grace” the decisions regarding the three common railway company requests are typically as follows:</p> <ul style="list-style-type: none"> <li>• Since the landowner is either entitled to the crossing or has no other options but a crossing to enjoy his land, the annual fee is waived;</li> <li>• Since there is no legal obligation for the landowner to have liability insurance for the crossing, it is up to him to determine its necessity; and</li> <li>• Since the CTA authorized the crossing, the railway company must seek a new ruling to terminate the crossing.</li> </ul>	<b>A</b>
<p>Crossing authorizations from the CTA indicate the location where the crossing is to be built, the parties responsible for the cost of construction, maintenance, etc., and the conditions under which the crossing is authorized.</p>	<b>A</b>
<p>All crossing authorizations issued by the CTA are conditional in that the crossing must comply with the safety requirements mandated by Transport Canada in the Railway Safety Act.</p>	<b>C</b>
<p>For some time now CTA has been offering their services as mediators, providing the service when landowners and railway companies are unable to reach an agreement on their own, but both parties are interested in achieving a negotiated settlement.</p>	<b>A</b>
<p>The agreements reached through mediation are binding, but the negotiation process often allows the parties to achieve certain consolations that might not present themselves otherwise (e.g., the agreement might include a provision allowing the railway to traverse the landowner’s property to access their railway), and it generally helps to build a more positive working relationship between parties.</p>	<b>A</b>



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Discussion Item	Applicability
Depending on the circumstances, mediation proceeding could include representatives form a number of stakeholder groups (e.g., Transport Canada, local municipalities, adjacent landowners, etc.).	<b>A</b>
In some cases the mediation process can result in multiple landowners agreeing to share one crossing, thereby reducing the number of crossings that might otherwise be constructed.	<b>A</b>
In the previous parliament, there was a proposed bill that would have changed the mediation process – currently, both parties must agree to go into mediation; under the proposed bill, if one party request mediation then both parties would be required to participate in at least one mediation session.	<b>A</b>
In addition to agreements on constructing crossings, mediation can also be used after the fact to come to terms on agreements for other issues (e.g., maintenance, etc.).	<b>A</b>

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# Safety at Private Crossings – Railway Industry Stakeholders #6

Discussion Item	Applicability
Dealing with private crossings “by right” can be challenging in that many older crossings have no documentation of the crossing agreement or maintenance contracts.	<b>A, M</b>
With respect to new crossings, if a crossing is authorised it is subject to appropriate/thorough safety regulations.	<b>R</b>
<p>RTD-10 needs to be put into force, because it addresses many of the concerns that currently exist regarding private crossings.</p> <p>G4-A only requires 10 seconds of sightline distance.</p> <p>The calculations required under RTD-10 are involved, but they address a lot of the safety issues.</p> <p>In general, RTD-10 is the answer to many safety issues; the regulations could be grandfathered in or phased in to help manage costs and effort.</p>	<b>R</b>
Approach and crossing surface conditions have a significant impact on safety, but a lot depends on the vehicle characteristics. Grades can cause stopping issues in winter. Speeds on approaches are also an issue there need to be enforceable speed limits on approaches or stop signs at all crossings.	<b>C, W</b>
Large farm and industrial equipment can be an issue at private crossings. Many operators are not professional drivers (and as such are not required to log time at the controls) they work long days and are not always alert or are distracted when it comes time to cross the tracks at the end of the day (farmers are a particularly important user group).	<b>U, V</b>
<p>Out West, industrial areas are a real problem, particularly site operated by small developers since they generally have less experience with crossings.</p> <p>Town want to grow so they allow development “anywhere” with no regard for safety or long-term planning.</p>	<b>A</b>



*Applicability:*

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Discussion Item	Applicability
<p>CN and Cp police services run education programmes at schools that are effective.</p> <p>Industrial drivers could be targeted at union meeting or tailgate meetings and educated on crossing safety (may need to get gory with details to impact this group).</p> <p>Police services do a good job, but they don't appear to have the resources to reach everyone that they should.</p>	<p><b>T</b></p>
<p>Mitigating measures:</p> <ul style="list-style-type: none"> <li>• RTD-10 has a section on crossbucks with retro reflective materials that is a good idea;</li> <li>• The colour schemes for signs, pavement markings, etc. around railway crossings could be changed (i.e., made different than other areas) to make crossings more visible; and</li> <li>• Rumble strips could be used on paved crossings (one crossing had speed bumps installed, but a car got hung up on them and a near miss resulted – not a good idea).</li> </ul>	<p><b>W</b></p>

**Applicability:**

# Safety at Private Crossings – Railway Industry Stakeholders #7

Discussion Item	Applicability
<p>Factors contributing to collisions:</p> <ul style="list-style-type: none"> <li>• Sightlines (impaired by vegetation or structures);</li> <li>• Crossing gradient; and</li> <li>• Maintenance.</li> </ul>	<b>C</b>
<p>Today, many private crossings (especially on the CN Kingston subdivision) are located within a short distance of a public crossing. As such, a lot of public crossings could be closed or consolidated; however, this would likely require the construction of access roads, which would have to be maintained by some road authority.</p>	<b>O</b>
<p>Not every railway crossings incident triggers a full TSB investigation; however, identifying safety deficiencies to stakeholders is usually worth the effort. Generally stakeholders will acknowledge safety deficiencies, but often actions are delayed by the perception of liability. As such reaching an agreement amongst stakeholders can be a challenge.</p>	<b>C</b>
<p>The existing legislation regarding how private crossings are granted should be changed. Private crossings should only be granted as an absolute last resort.</p>	<b>A</b>
<p>Regulations should focus on sightlines and proper design based on the type of vehicle using the crossing. The regulations need to be enforceable and not be “grandfathered” in.</p>	<b>R</b>
<p>Crossing mileposts and emergency 1-800 numbers should be installed at every private crossing.</p>	<b>W</b>
<p>Driver education and handbooks need to address crossing safety, they also need to make drivers aware of emergency contact numbers. Driver training with respect to railway safety needs to be consistent across all provinces. Truck driver training also needs to address railway crossing safety with greater emphasis.</p>	<b>T</b>

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**Applicability:**

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## Safety at Private Crossings – Railway Industry Stakeholders #8

Discussion Item	Applicability
<p>Factors contributing to collisions:</p> <ul style="list-style-type: none"> <li>• Sightlines (impaired by vegetation, structures, or topography);</li> <li>• Road approach grades too steep;</li> <li>• Lack of signage and reflective surfaces (i.e. no stop signs or crossbucks);</li> <li>• Driver behaviour (e.g. complacency, don't obey signs, don't know speed of trains);</li> <li>• Crossing surface condition/materials in disrepair;</li> <li>• No whistling at private crossings; and</li> <li>• Traffic at many crossings is increasing and many crossings are now very close to busy roadways.</li> </ul>	<b>C</b>
<p>TSB has no authority to enforce safety improvements, they only conduct investigations and identify deficiencies.</p>	<b>C</b>
<p>A standardized private crossing sign (e.g. crossbucks with a "private crossing" tag) should be developed to increase visibility/conspicuousness of private crossings.</p>	<b>W</b>
<p>What legal bearing does a stop sign at a private crossing (on private land) have?</p>	<b>W</b>
<p>Trucking companies should have to provide drivers with regular, formal training/education regarding private crossings.</p>	<b>T</b>
<p>Farmers and farm hands need to be trained in the use of private crossings and associated emergency procedures.</p>	<b>T</b>



*Applicability:*

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Discussion Item	Applicability
Driver education programmes and manuals need to place more emphasis on railway crossings safety and emergency procedures.	T
Non-railway police need to know how to deal with railway incidents in an efficient comprehensive manor.	T
911 operators need to know how to get the necessary information from callers (e.g. mileage, Transport Canada call number, etc.).	T

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## Safety at Private Crossings – Railway Industry Stakeholders #9

Discussion Item	Applicability
All crossings are dealt with on a case-specific basis. The CTA has no specific safety mandate. If no particular safety issues are identified to the CTA, it is assumed that no extraordinary safety concerns exist. If safety concerns are identified, any authorized “suitable crossing” would meet the requirements for safety as stipulated by Transport Canada.	<b>C</b>
Instances where crossings are not granted occur more frequently with Section 102 applications, since the rulings are based on demonstrable historical facts. Under Section 103 crossings are granted based on a proven need.	<b>A, R</b>
The CTA only gets involved in crossing affairs when there is a dispute between the railway and the landowner.	<b>A</b>
The existing regulations are sufficient given the mandate of the CTA. The government has been quite clear as to what it expects from the CTA. Funding seems to be one of the major hurdles with respect to crossing safety.	<b>R</b>
Generally, the CTA is pleased with the mediation process, it is becoming more common and the success rate is high.	<b>A</b>
Existing crossings usually only come up when land is transferred and the new landowner has an issue with the existing agreement (that can't be resolved with the railway) or the landowner simply wants to renegotiate the crossing agreement.  Also, CTA may become involved in cases where a crossing has been removed and the landowner has requested to have it replaced.	<b>A</b>
The CTA no longer has the discretion to apportion costs for crossing granted “by grace” or by the Agency's discretion under section 103 of the Canada Transportation Act.	<b>R</b>

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## Safety at Private Crossings – Railway Industry Stakeholders #10

Discussion Item	Applicability
There seems to be some confusion about the difference between farm and private crossings; there needs to be one clear definition used across the industry.	
Some of the issues in dealing with private crossings include the inability to enforce speed limits on private land, a lack of formal records regarding crossing agreements, and the fact that there is typically no train whistling.	<b>C, A</b>
Rather than simply authorizing crossings based on landowner rights, there should be some enforceable criteria that can be applied to determine if a crossing is safe and/or required at particular location.	<b>R</b>
G4-A doesn't make direct reference to private crossings, but it does recommend speed limits for crossing approaches; unfortunately, there is no way of enforcing those speed limits at private crossings. The RTD-10 references to design vehicles are a good addition given the types of vehicles that might be using private crossings (e.g., farm equipment).  There can be significant costs associated with the RTD-10 requirements (e.g., if a land survey is necessary).	<b>R</b>
Crossing approach grades have a direct impact on the acceleration and braking abilities of vehicles using the crossing. RTD-10 takes those factors into consideration.	<b>C, R</b>
Education programs have the potential to make a big difference, but they can be difficult to administer. It's hard to target everyone that uses the crossings. Education would be most effective if administered on a crossing-specific basis, targeting the particular users at the crossing.	<b>T</b>
Go Transit has crossbucks, "caution look both ways" signs, "no trespassing" signs, and stop signs at all private crossings. They also have a plan to post emergency contact numbers at the crossings.	<b>W</b>



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Discussion Item	Applicability
Possible considerations for improved safety at private crossings include low-cost warning systems, lights/flashers, and wayside warning systems.	<b>W</b>

*Applicability:*

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# Safety at Private Crossings – Railway Industry Stakeholders #11

Discussion Item	Applicability
Crossing users often have trouble judging the speed of approaching trains until it is too late.	<b>C</b>
Traffic at most crossings on the subdivision seems to be seasonal with most of the activity occurring during the spring and summer months.	<b>U</b>
Driveway crossings are used year-round and generally it seems that crossing users exercise more caution at driveway crossings.	<b>U</b>
Speed restrictions have been imposed on one section of the subdivision where the desired sightline distances can't be met due to the curvature of the tracks at two private crossings.	<b>C</b>
Some private crossings along the subdivision receive indirect whistling as a result of whistle posts at nearby upstream public crossings. However, no private crossings have their own whistle posts.	<b>W</b>
Several sets of mirrors have been installed at private crossings along the subdivision in the past year or so.	<b>W</b>
Locomotive engineers are not provided with any records of the locations of private crossings and must rely on experience and memory to know where private crossings exist.	<b>T</b>
Trains speeds are more or less dictated by speed restrictions and on-time performance requirements; as such, they can't really slow the train in areas were they know there is a lot of crossing activity. Additionally, if they sound the train whistle at private crossings they often receive complaints.	<b>W</b>



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Discussion Item	Applicability
Crossings could be equipped with LED flashers in addition to crossbucks to help increase their visibility to drivers who are often distracted or only focused on what is directly in front of them.	<b>W</b>

*Applicability:*

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## Safety at Private Crossings – Railway Industry Stakeholders #12

Discussion Item	Applicability
Crossings “by right” can pose additional challenges in that they are sometimes authorized at locations that do not suite the railway (e.g., multiple tracks, poor sightlines, etc.), efforts are made to negotiate on the location of such crossings, but it doesn’t always workout.	<b>A</b>
Mediation has been used as a means of trying to reach an agreement that works for both parties. Crossing agreements can at times take a very long time to negotiate.	<b>A</b>
One major issue with older crossings (particularly older crossings “by right”) is that they are not always documented and there is no record of who owns them.	<b>A</b>
The CP Real Estate department handles most of the initial negotiations between the railway and landowners regarding new private crossings. The CP Real Estate department has put together a document for new crossing requests that contains a sample crossing plan and identifies technical requirements that are based on RTD-10. Real Estate informs operations personnel of any potential impacts that might result of new crossings; however, at times, there can be some disconnect in the communications between the two groups.	<b>A, R</b>
Another challenge occurs when new landowners takeover crossings as part of land transfers; they are often not aware of their responsibilities with respect to the crossing.	<b>A, O</b>
At present there is no real trigger for review of crossing uses/vehicle types. Railway personnel do try to anticipate the types of vehicles that will be using a private crossing when they are installing it.	<b>U, V</b>
G4-A is a good document; it’s easy to use and understand. The calculations that are required for RTD-10 can be difficult for some. Comparisons of sightline requirements based on G4-A and RTD-10 showed that the two methods yielded similar results.	<b>R</b>



*Applicability:*

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Discussion Item	Applicability
<p>Crossings surface condition plays an important role in collision risk. The standard crossing is constructed of timber planks. The condition of the timbers relates directly to the amount of time it takes vehicles to cross. It is also important that the crossing is wide enough to accommodate the vehicles using it.</p>	<p><b>C, O, V</b></p>
<p>Sometimes, it happens that old logging roads with private crossings are abandoned and get used by the public. As such, the crossings become de facto public crossings, but they don't get proper upgrades. The new users are often infrequent users that are unfamiliar with the crossing and its operations.</p>	<p><b>U</b></p>
<p>Typically, education programmes are only moderately effective, they work well enough at first, but compliance diminishes after a while. One reason for the pattern is that users (e.g., logger, truckers, etc.) come from all over and there is a lot of user turnover.</p>	<p><b>U</b></p>
<p>It might be a good idea to send out crossing safety packages (containing emergency contact information, etc.) to crossing owners every couple of years. One possible challenge with the idea is that many crossing owners are not registered (i.e., there is no record of who they are).</p>	<p><b>T</b></p>
<p>Measures to improve safety at private crossings:</p> <ul style="list-style-type: none"> <li>• Flagmen at logging, mining, industrial crossings;</li> <li>• Automated warning systems (very costly);</li> <li>• Safety reviews with owners/users after near misses or observed non-compliances;</li> <li>• Mirrors;</li> <li>• Whistle posts; and</li> <li>• Users have installed their own flashing amber lights.</li> </ul>	<p><b>W</b></p>
<p>Private crossings safety could be improved by adopting the practice of posting stop signs at all crossings, using more retro-reflective materials at crossings, ensuring proper sightlines, and closing many private crossings.</p>	<p><b>W, R</b></p>

**Applicability:**

## Safety at Private Crossings – Railway Industry Stakeholders #13

Discussion Item	Applicability
<p>Factors Contributing to Collisions:</p> <ul style="list-style-type: none"> <li>• Driver Behaviour: inattention, distraction, taking unnecessary risks, and complacency;</li> <li>• Crossing Design: multiple sets of tracks, approach geometry, crossing angle, sightlines, grade;</li> <li>• Visibility: Inadequate audible or visual indicators of the presence of approaching trains and inadequate protection at crossings (e.g., not enough reflective surfaces on trains, no warning signs); and</li> <li>• Frequency of train traffic: irregular/infrequent train traffic can increase risk.</li> </ul>	<b>C</b>
<p>Typically, TSB investigators point out deficiencies and report them to Transport Canada and/or other action agents who determine what corrective action should be taken. Most often deficiencies relate to lack of signage and/or poor maintenance practices (particularly with respect to sightlines).</p>	<b>C, S</b>
<p>Missing, damaged or lack of signage, infrequent train traffic, poor crossing conditions, and/or sightlines not being maintained may lead crossing users to believe that the crossing is no longer in use.</p>	<b>C, W, M</b>
<p>Landowners should be provided a crossing safety awareness course, the course should be re-offered every time the land changes hands.</p>	<b>T</b>
<p>Railway crossings in general need to be more of a focus in driver training courses and examinations, and crossing safety and emergency contacts should be featured in driver handbooks.</p>	<b>T</b>



*Applicability:*

**A** – Arbitration or Negotiations, **C** - Collision Risk/Safety Issues, **M** – Crossing Maintenance, **O** - Operations and Maintenance Procedures, **R** - Regulations, **S** – Crossing Security and Access, **T**- Training/Awareness, **U** – Crossing Utilization, **V** – Types of Vehicles, **W** – Warning System/Signage



Discussion Item	Applicability
More thought should be given to providing more effective warning at private crossings rather than simply relying on signs, such as crossbucks, and locomotive horns on the trains (e.g., horns situated at the crossing and directed more effectively to the approaching motorists, not just on trains).	<p style="text-align: center;"><b>W</b></p>
The existing legislation is adequate, provided that inspections are carried out and a real effort is made to improve safety at dangerous crossings.	<p style="text-align: center;"><b>R</b></p>



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## Safety at Private Crossings – Railway Industry Stakeholders #14

Discussion Item	Applicability
Historically, the majority of crossings “by right” were used for farming purposes, which usually translated into fewer crossings, and most crossing activity was seasonal. Land uses are changing with development, and private crossings “by right” are being used by the general public, which is resulting in higher crossing volumes and more crossings by users with limited crossing experience.	<b>U, C, A</b>
When crossing “by right” are authorized, they are generally located wherever the landowner wants them, which can become very expensive for the railway companies, given that they are required to meet all safety measures mandated by Transport Canada (e.g., grade separations, warning systems, etc.).	<b>R, C</b>
There are also issues with crossings “by grace” with respect to changes in land use (e.g., if a landowner builds a house on an otherwise inaccessible segment of land their private crossing becomes a necessity and user composition changes).	<b>U, C</b>
Another issue with crossings “by grace” arises when the land changes hands; typically, the rights of the crossing agreement are transferred to the new owner through the real estate department, and no training etc. is provided. As a result, new owners often don’t have any real understanding of the railway operations at their new crossing.	<b>A, C, T</b>
There are sufficient regulations in place to determine if a crossing should be authorized (and TC will conduct a safety review if there are concerns). However, the railways should have more input into the exact placement of crossings “by right” (for reasons of both safety and cost).	<b>R, A</b>
G4-A guidelines for sightlines are straightforward and the table of distances is easy to apply. The calculations required under RTD-10 can be difficult for some to compute, but the provision for design vehicles is more comprehensive.	<b>R, V</b>



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Discussion Item	Applicability
<p>Crossing surface condition and crossing approach grade impact safety if they are incompatible with the vehicles using the crossing. Generally, the only time that CP hears about crossing uses (vehicle types) is when there is an incompatibility issue; there should be some requirement for owners/users to disclose that information to the railways.</p>	<p><b>C, U, R, V</b></p>
<p>Vehicle type and user do have an impact on collision risk. Crossings accessible to the public (e.g., driveway crossings) are often used by new or infrequent crossers that don't understand the dynamics of the crossings.</p>	<p><b>C, U, V</b></p>
<p>New drivers need more training on how to deal with crossings and the situations that can arise at crossings. Crossings should be more of an issue in driver training and handbooks. All crossing users should have some degree of training, but the logistics involved in arranging training would be a challenge.</p>	<p><b>T</b></p>
<p>Types of safety systems that have been seen in the past:</p> <ul style="list-style-type: none"> <li>• Crossbucks and/or stop signs;</li> <li>• Whistling posts (installed at the request of the owner);</li> <li>• Convex mirrors (particularly effective at night); and</li> <li>• Pedestrian type "walk"/"don't walk" signals (not endorsed by CP as they are not a standard installation for railway crossings).</li> </ul>	<p><b>W</b></p>
<p>Crossing closures are always welcome; however, crossing consolidation has the potential to change usage patterns, traffic composition, and user groups, which could be problematic.</p>	<p><b>R, U</b></p>

**Applicability:**

## Safety at Private Crossings – Railway Industry Stakeholders #15

Discussion Item	Applicability
Crossing users often have trouble judging the speed of approaching trains until it is too late.	<b>C</b>
Traffic at most crossings on the subdivision seems to be seasonal with most of the activity occurring during the spring and summer months.	<b>U</b>
Driveway crossings are used year-round and generally it seems that crossing users exercise more caution at driveway crossings.	<b>U</b>
Speed restrictions have been imposed on one section of the subdivision where the desired sightline distances can't be met due to the curvature of the tracks at two private crossings.	<b>C</b>
Some private crossings along the subdivision receive indirect whistling as a result of whistle posts at nearby upstream public crossings. However, no private crossings have their own whistle posts.	<b>W</b>
Several sets of mirrors have been installed at private crossings along the subdivision in the past year or so.	<b>W</b>
Locomotive engineers are not provided with any records of the locations of private crossings and must rely on experience and memory to know where private crossings exist.	<b>T</b>
Trains speeds are more or less dictated by speed restrictions and on-time performance requirements; as such, they can't really slow the train in areas were they know there is a lot of crossing activity. Additionally, if they sound the train whistle at private crossings they often receive complaints.	<b>W</b>



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Discussion Item	Applicability
Crossings could be equipped with LED flashers in addition to crossbucks to help increase their visibility to drivers who are often distracted or only focused on what is directly in front of them.	<b>W</b>

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# Safety at Private Crossings – Railway Industry Stakeholders #16

Discussion Item	Applicability
Real estate is the primary contact between the railway and the landowners with respect to private crossing agreements.	
Requests for new crossings are generally received from the landowner via one of three means: Direct contact; Through the engineering department; or The Community Connect line/website.	
Upon receiving a request the real estate department will contact the owners to request information about their intents regarding the use of the crossing. Having knowledge of the area where the crossing is being requested helps in anticipating future changes in crossing usage. The real estate department can also get information on planned development. Disclosure is sometimes an issue.	
In order to determine the long-term, best-fit crossing requirements, the landowner is asked to provide information regarding the purpose of the crossing, the frequency of use, the type of equipment that will be used, and if the applicant has intentions of significantly changing or increasing the use in the foreseeable future, with regards to; development, subdivision, or significant commercial or industrial plans.	
Once the intended use of the crossing has been determined/identified the request is sent to the railway's engineering, operations, and capacity groups for their approval. If they have no objections to the crossing a drawing is created showing the location of the new crossing, and the requirements with respect to approaches, culverts, gates, signs, etc. are determined.	
The railway has a more or less standard crossing agreement. Often, a caveat is added to the agreement stipulating that if the use of the crossing changes the appropriateness of the crossing will have to be reviewed. Copies of the plans and agreement are sent to the landowner to be signed. The agreements are then executed by CPR and copies of the fully signed agreements and plans are returned to the applicant for their records.	



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Discussion Item	Applicability
<p>The owner makes arrangements with the track maintenance supervisor to have the crossing constructed. CPR constructs the crossing surface (planks, asphalt, rubber, or concrete, depending upon what the applicant wants to pay for) only -- the applicant constructs the approaches and any culverts or drainage that is required and installs the signs and gates. All work has to be done under flag protection by CP.</p>	
<p>With respect to existing crossings, documentation of the crossing agreements does not always exist. The real estate department has access to real estate title searches, which can be used to identify the current owner of a plot of land. Track maintenance supervisors usually make the requests for searches.</p>	
<p>When land is sold, due diligence, on the part of the purchaser and the real estate agents, is necessary to ensure that the crossing agreements are updated/transferred to the new owners. This seems for be happening more frequently of late.</p>	
<p>According to the lawyers, CP cannot put a restrictive covenant on land that belongs to someone else based on a crossing that is on CP land.</p> <p>Potentially, the railway could ask to have a registered notation put on land titles for properties with private crossings; however, it would cost money.</p>	
<p>CP does not have an interdepartmental database of all private crossings. They have paper files for all crossings with documented agreements. Conversion of old paper documents to digital files is in progress.</p>	
<p>When asked CPR will assist the smaller railway companies that are leasing and operating former CPR lines where CPR is still the underlying landowner, as the issues relate to land title issues.</p>	



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Discussion Item	Applicability
<p>1. <i>In your opinion, what specific crossing placements, approach scenarios, or surrounding conditions create an elevated risk of incidents at private crossings?</i>                      .....continued</p> <p><u>Changes in technology</u> – farm crossings are now used by semi-trailers instead of small trucks as they were in the past. These larger vehicles encounter difficulties at crossings due to differences in elevation of tracks where there are multiple tracks, and due to approach grades. Trucks have become stuck on the rails in cases where the mainlined and a siding are not at the same elevation. These difficulties must be addressed on a case by case basis.</p> <p><u>Changes in operating procedures:</u> in cases where there has been a change in railway ownership, such as when a rail line is sold, some elements that were added to improve safety at specific locations (such as the requirement to whistle at a specific farm crossing) are removed by a new operator who may be unaware or uninterested in the local problem. This is especially true in cases where the new owner is not local.</p> <p><u>Crossing surface:</u> The condition of the crossing surface is becoming more problematic. Track lifts are undertaken during standard maintenance and road approaches are not adjusted accordingly. The rough condition increases exposure time at the crossing.</p> <p><u>New regulations:</u> How will the new regulations be applied at farm crossings? The new regulation allows a maximum approach grade of 2 %.</p> <p><u>Many farm crossings are actually unrestricted</u> as very few are gated. As well, there are cases where crossings have a gate on one side of the track only; this creates the dangerous situation of allowing access to the track but not allowing access off the track once a vehicle is on the crossing.</p> <p><u>Complacency</u> – the opinion that since a crossing has been in existence for over 100 years, therefore that it must be fine as it is.</p> <p><u>Changes in land use:</u> Farms are transformed into land for other uses, such as conversion to campgrounds. The vehicles using the crossing change and approaches are not modified to suit the new vehicle type. For example, in a campground and there will be long RVs using the crossing. Railways should be cognisant of these changes in land use and should be interceding and correcting the situation before Transport Canada has to intervene.</p>	<p>C T</p> <p>O</p> <p>C</p> <p>R</p> <p>C</p> <p>U T</p>



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Discussion Item	Applicability
<p>2. Please, provide some examples of mitigation measures recommended in the past at private crossings, and comment on their effectiveness in improving private crossing safety.</p> <p>Transport Canada does not say what must be done, however Transport Canada will indicate if something is unsafe. However, through discussions with stakeholders ideas are discussed.</p> <p>Transport Canada will step in and require railways to reduce train speeds, and will threaten to issue an order for the railway to “Stop and proceed”. The railways react very quickly to correct the situation in these cases.</p> <p>The closing of crossings would be beneficial in certain instances, although to date no crossings have been closed in the Atlantic region in response to Transport Canada’s new program offering financial compensation for the closure of a crossing.</p> <p>Examples of mitigating measures:</p> <p>1) There was a case where there were 3 or 4 private crossings, serving 1 or 2 homes each, having restricted sightlines. Convex mirrors were placed in the quadrant having restricted sightlines.</p> <p>2) The case of a private crossing located near a rock cut. Transport Canada advised that the crossing was not safe, and the railway advised the owner that the crossings would have to be removed. Consequently, the owner would no longer have access to his property. The result was that the owner spent a significant amount of money to cut the rock in order to maintain his access.</p> <p>3) In the case where a private crossing became a “de facto” public crossing due to the development of a new subdivision, if the crossing has been used by the public for 3 or more years, Transport Canada may be able to provide a financial contribution to close other nearby crossings and install warning devices at the crossing (via the Grade Crossing Improvement Fund)</p>	<p style="text-align: center;"><b>W</b></p> <p style="text-align: center;"><b>C</b></p>



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Discussion Item	Applicability
<p>3. <i>What, if any, difficulties have you encountered in the past in ensuring that the changes suggested/requested are put in place? Have there been any particular jurisdictional challenges?</i></p> <p>No real jurisdictional challenges have been experienced so far. However, since 1989, Transport Canada has been operating without a regulation and without an approved technical standard. Road authorities have agreed with the intent of respecting the proposed standard (RTD-10)</p> <p>Transport Canada's threat of issuing "Orders" and "Notices" is quite effective, situations get corrected quickly.</p> <p>Transport Canada offers comments when requested on proposed crossings, but does not approve crossing placement/configuration.</p> <p>In cases of short line railways that are under provincial jurisdiction, there have been instances where the province indicates that crossing issues must be sorted out between the land owner and the railway. These cases become "political" and both politicians and Transport Canada may be drawn into the case. Transport Canada will review the case from a safety standpoint if needed.</p>	<p><b>R</b></p>
<p>4. <i>What specific changes (to technical requirements, legislation, education or other areas) would you like to see implemented to reduce the risk of collisions at private crossings?</i></p> <ul style="list-style-type: none"> <li>- Approval of the new regulation and RTD-10 as soon as possible;</li> <li>- RTD-10 to be presented in a simplified form for use by owners and small municipalities;</li> <li>- Low cost warning devices to be reviewed. Currently if the devices does not respect the old general order E-6 to the letter it is not permitted. There is a hesitancy to try something new.</li> </ul>	<p><b>R</b> <b>R</b> <b>W</b></p>



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Discussion Item	Applicability
<p>5. <i>Is there any other anecdotal information or personal experience that you would like to share, with respect to private crossing safety?</i></p> <ul style="list-style-type: none"> <li>- Railways react after Transport Canada threatens to become involved where there is a safety issue at a crossing. The railways could be more proactive instead of waiting.</li> <li>- Crossing surfaces are worse than they were in the past, due to a reduction in railway staff. The railways seem to be trying to “put out fires” and end up letting some maintenance go. Feels that this is due to in house budgeting at the railways.</li> <li>- All crossings are different and must be handled individually.</li> <li>- Sightline brush clearing is always a temporary measure and must be constantly reviewed. As well, railways should check sightlines from within a passenger car on the crossing approaches, not from within a high-rail truck as the perspective from a car is very different.</li> <li>- About 20 or 25 years ago CN placed stop signs at some farm and private crossings, however the signs have not been maintained and many have deteriorated significantly.</li> </ul>	<p style="text-align: center;"><b>C</b></p> <p style="text-align: center;"><b>M</b></p> <p style="text-align: center;"><b>M</b></p> <p style="text-align: center;"><b>M</b></p>

# Safety at Private Crossings – Railway Industry Stakeholders #18

Discussion Item	Applicability
<p>1. <i>In your opinion, what specific crossing placements, approach scenarios, or surrounding conditions create an elevated risk of incidents at private crossings?</i></p> <ul style="list-style-type: none"> <li>• Skewed crossings, in particular where one quadrant has blind spot;</li> <li>• Steep grades, most important in winter with icy conditions;</li> <li>• Crossings where there is a highway parallel to the tracks located less than 8 meters away. In these cases, longer vehicles can foul the track and get hit by a train because they cannot get onto the road due to traffic on the road;</li> <li>• Poor sightlines due to vegetation, curvature, obstructions (buildings and rock cuts);</li> <li>• Rotted crossing planks – vehicles get stuck (including wheel chairs);</li> <li>• Humped crossing – low bed trailers get caught or hook rail;</li> <li>• Super-elevation – low vehicles can hit the rail and become incapacitated on track (highest risk for these incidents is on double track);</li> <li>• New developments – in these cases a private crossing gets unrestricted use which it was not designed for;</li> <li>• High speed tracks with crossings without protection or whistling;</li> <li>• Use by low vehicles (cars, lowbed trucks);</li> <li>• Have cases of snowmobiles using crossing in winter only (seasonal use) in the off-season the crossing becomes an access point to the tracks (trespassing)</li> <li>• Complacency by regular users of crossings, cases of a homeowner with their own crossing the user became complacent and there have been accidents;</li> <li>• Cell phones and other distractions (i.e. disciplining children in car) – Education needed.</li> </ul>	
<p>2. <i>Please, provide some examples of mitigation measures recommended in the past at private crossings, and comment on their effectiveness in improving private crossing safety.</i></p> <ul style="list-style-type: none"> <li>• Closure of crossings: Transport Canada had to order the closure of a farm crossing with small business (hay, produce store, shop). The user did go to the CTA but CTA ruled in favour of TC (this happens very rarely). Closing a crossing solves the entire problem</li> <li>• Should increase the contribution for closure of a crossing beyond \$5000. Contributions should pay for moving infrastructure, and for making modifications such as a road to access another crossing.</li> <li>• Speed restrictions by Notice &amp; Order. Railways react and remedy situations very quickly in these cases</li> <li>• Transport Canada will order whistling reluctantly (speed restrictions are more effective). When whistling is ordered in some cases will order 10 seconds whistle, not ¼ mile, there have been good results from this</li> <li>• Order vegetation to be cut</li> <li>• Relocate crossings</li> <li>• Restrict length / type of vehicle using crossing by order of Transport Canada (especially used when track is close to a parallel road)</li> </ul>	



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Discussion Item	Applicability
<p>3. <i>What, if any, difficulties have you encountered in the past in ensuring that the changes suggested/requested are put in place? Have there been any particular jurisdictional challenges?</i></p> <p>Transport Canada issues Notices or Notice and Orders to railways in cases where there are safety concerns:</p> <ul style="list-style-type: none"> <li>• A Notice is issued when there is a threat to railway safety, it gives a railway 10 to 14 days to advise Transport Canada of the solutions/measures that will be put in place. The problem with a Notice is that the solutions presented by the railways are often very weak, based on economics and are unsatisfactory</li> <li>• A Notice and Order is issued when there is an immediate threat and will restrict trains / crossing use until problem resolved.</li> </ul> <p>Few notices issued now, more Notices and Orders issued because 100% of the time this gets timely attention for serious deficiencies from the railway.</p> <p>There is often reluctance on part of the railways to admit that there are safety issues.</p> <p>In many cases, the high cost of remedial action is passed on to the crossing owner by the railway after Transport Canada gets tough with the railway. For example, a railway did assessments of all crossings, and prepared a timeline to fix them, they then gave estimates of the required work to the owners of the crossings (\$30 000 and up). This caused a political nightmare.</p> <p>Transport Canada does have a tribunal that is set up to hear appeals where a railway or road authority may refute a Notice and Order, this tribunal has ruled in favour of Transport Canada on the one case in Western Canada</p> <p>In cases where an appeal is made to the CTA by a crossing owner after a railway has indicated that they object to the placement of a crossing, 99% of the time the CTA rules in favour of crossing owner, unless Transport Canada can prove that a valid safety concern exists. The CTA will order a railway to make a suitable crossing at a particular location. If it is not at all safe, the railway can then involve Transport Canada. The CTA will then try to mediate</p> <p>Transport Canada and the railways wish to have as few level crossings as possible, in certain cases Transport Canada will even contact the CTA directly. There is a good relationship between the CTA and Transport Canada.</p>	



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Discussion Item	Applicability
<p>4. <i>What specific changes (to technical requirements, legislation, education or other areas) would you like to see implemented to reduce the risk of collisions at private crossings?</i></p> <ul style="list-style-type: none"> <li>• There should be regulations with respect to locked gates at restricted crossings, would like to see this based on railway speed.</li> <li>• Would like to see G4-A as a regulation</li> <li>• More government funding needed to relocate and close crossings</li> <li>• Enact the proposed Grade Crossing Regulations as soon as possible</li> <li>• More powers for Transport Canada inspectors, including                         <ul style="list-style-type: none"> <li>◦ The power to request and receive documents from the railways without having to be on site;</li> <li>◦ Strengthen the RSA, there is too much discretion, Section 11 needs to be strengthened (a qualified engineer must take responsibilities for all railway work.)</li> <li>◦ Would like Transport Canada's inspectors to be able to issue fines (ticket book) to users / railways for unsafe use of crossing, and to have inspectors given the power to issue fines immediately (not to be done via the Minister) (as is done at the FRA)</li> </ul> </li> <li>• Specific crossing accidents should be investigated jointly by the railway and regulator</li> <li>• Transport Canada can close crossings to vehicular access, they do have the authority to do so.</li> </ul>	
<p>5. <i>Is there any other anecdotal information or personal experience that you would like to share, with respect to private crossing safety?</i></p> <ul style="list-style-type: none"> <li>• The railways' response to Transport Canada's involvement varies based on attitudes. For example: One national railway has had many slow orders placed at crossings in British Columbia due to unsafe use. They have assessed all of their crossings and provided timelines for improvement. There has been a major improvement in crossing maintenance. The other national railway challenges Transport Canada on every issue irrespective of the safety ramifications, and accuses Transport Canada of being unprofessional. The result is that the conditions at their crossings in British Columbia are much poorer than at their competitor's crossings.</li> <li>• Short-line railways don't have the money or the personnel to assess and to maintain crossings as needed. These lines have more injuries and more accidents.</li> <li>• Funding for public crossings in the West has been increased for Transport Canada, there are some pedestrian crossings with automatic protection, paid for privately.</li> </ul>	



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# Safety at Private Crossings – Railway Industry Stakeholders #19

Discussion Item	Applicability
<p>1. <i>Can you comment on the different challenges, be they technical, administrative, jurisdictional, or otherwise, involved in dealing with private crossings “by right” versus other types of crossings?</i></p> <p>Technical – not too many challenges, few problems. Sight lines and approaches must be well maintained.</p> <p>Administrative – quite simple, no agreements required</p> <p>Jurisdictional – no challenges</p>	
<p>2. <i>Are there sufficient technical standards available in order to establish if a private crossing should be permitted and under what conditions?</i></p> <p>Transport Canada’s draft RTD-10 contains extensive information concerning minimum standards, these are sufficient.</p> <p>Once the railway receives a request, they meet with the applicant and go to the site to review all issues before putting a crossing in place.</p>	
<p>3. <i>Do you have any thoughts regarding the determination or the preservation of sight lines at private crossings:</i></p> <p>3.1 <i>G4-A vs. the new requirements taking into account specific vehicle types, as set out in RTD-10?</i></p> <p>G4-A is not as elaborate as RTD-10, but does not cause problems.</p>	
<p>3.2 <i>Calculation of minimum sight line requirements?</i></p> <p>NBEC has completed a review and evaluation of the sightlines at all of their crossings last year.</p>	
<p>3.3 <i>Are the methods adequate and can the required information be readily collected?</i></p> <p>No bad experiences so far. Usually applicants are able to provide the equipment information that is required.</p> <p>Private crossings are governed by an agreement, in which the type of vehicle using the crossing is identified. The owner must advise the railway if they plan to use any other type of vehicle.</p>	



*Applicability:*

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Discussion Item	Applicability
<p>4. <i>Do you feel that the private crossing condition or the approach grades have a significant impact on the crossing safety? What associated issues have you experienced?</i></p> <p>Both are significant. If the crossing surface planks are in poor condition, vehicles can get stuck. The surface must be well maintained.</p> <p>Approach grades: have had few incidents. During visits to the sites, approaches are identified and they try to create a flat approach as possible within +/- 15 feet from the track to allow improved visibility and crossing time.</p>	
<p>5. <i>In your experience, does the type of vehicle (e.g., passenger vehicles, trucks, heavy construction equipment, recreational vehicles, farm equipment, etc.) or certain types of users affect the collision risk at the private crossing?</i></p> <p>Yes. The type of vehicle is critical. For example: an owner requested that heavy equipment be brought onto their property. The contractor tried to cross at a private crossing with questionable grades for the specific vehicle (low flat bed). The vehicle became caught on the rails and was hit by an approaching train. The tracks were damaged and the train derailed. Luckily there were no injuries.</p> <p>Vehicles such as Winnebagos with trailers require a longer time to cross than smaller vehicles.</p> <p>ATVs and snowmobiles are not the worst type at crossings (however they cause many problems trespassing)</p>	
<p>6. <i>Do you feel that education, awareness or training could be used effectively to address a particular type of user or groups of users?</i></p> <p>Yes. With reference to the example in #5, it was discovered that the contractor had absolutely no knowledge of how to approach/negotiate the crossing with his vehicle.</p> <p>Education is needed for heavy equipment operators, this must be improved. Public crossings are very different from private/farm crossings. As well, the owner did not contact the railway prior to bringing the heavy equipment over the crossing (as was required by the agreement).</p>	



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Discussion Item	Applicability
<p>7. <i>What types of mitigating measures have you seen implemented to improve safety or address a specific concern at a private crossing? Do you have any suggestions for additional remedial measures?</i></p> <ul style="list-style-type: none"> <li>- Control sightlines</li> <li>- Try to eliminate crossings; NBEC is currently negotiating to close some. A successful example is a recent occasion in Belledune where 2 individuals had crossings near a curve where the railway convinced the owners to use a roadway alongside the tracks instead of a crossing.</li> <li>- NBEC does not have any mirrors in place at the moment                         <ul style="list-style-type: none"> <li>- Has seen other locations on CN territory with mirrors, an another location with a signal indication that there is a vehicle on the track</li> </ul> </li> <li>- Typically there is a Private Crossing Sign at most of these crossings, some have cross bucks and stop signs</li> </ul>	
<p>8. <i>Can you suggest any specific changes that you would like to see enacted to reduce the risk of incidents at private crossings?</i></p> <p>Education and awareness. This could be coordinated through the Railway Association of Canada and Direction 2006 and directed specifically for farm and private crossing users, as well as to target specific groups such as heavy equipment operators. The level of awareness among farm crossing owners/users is variable.</p>	
<p>9. <i>Is there any other anecdotal information or personal experience that you would like to share, with respect to overall private crossing safety or a specific problem location?</i></p> <p>When at CN, participated in a detailed review of RTD-10</p> <p>VIA travels at a maximum of 70 mph, freight trains travel at a maximum of 55 mph.</p>	



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## Safety at Private Crossings – Railway Industry Stakeholders #20

Discussion Item	Applicability
<p>1. <i>How do you become familiar with the locations, and conditions, of private crossings? How do you use that knowledge?</i></p> <p>By experience, these are not identified on train bulletins. Be aware, however the train speed and schedule are to be maintained.</p>	
<p>2. <i>How often do you encounter situations at private crossings that you would consider unsafe or dangerous? Could you please describe examples of unsafe or high-risk situations that you have encountered in the past?</i></p> <p>Once per trip (at any type of crossing or trespassing issue)</p> <p>Private / farm crossings: more common</p> <p>Example: Picnics beside track – not fenced next to a park in Pointe-St-Charles</p> <p>Crews report areas where pedestrians are seen often</p>	
<p>3. <i>In your experience, what types of vehicles are most commonly involved in near misses, risky-behaviour or collisions (e.g., passenger vehicles, trucks, heavy construction equipment, recreational vehicles (ATVs or snowmobiles), farm equipment, etc.)?</i></p> <p>No particular vehicle types, can be any type including</p> <ul style="list-style-type: none"> <li>- trucks</li> <li>- busses</li> <li>- (School buses → rare)</li> <li>- Les Cèdres – ATV death</li> <li>- Mostly “normal” people doing stupid things</li> <li>- Young kids on ATVs alone are the most dangerous.</li> <li>- Farm equipment pretty good – no problems on corridor (Montreal – Toronto)</li> <li>- Semi-trailers – close to CP / CN</li> </ul> <p style="padding-left: 40px;">Get caught between gates</p> <p style="padding-left: 40px;">Brighton to Grafton a bad spot</p>	



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Discussion Item	Applicability
<p>4. Which of the following crossing location/design characteristics do you feel contributes the most to the collision risk at a private crossings:</p> <p>4.1 Proximity to a curve, siding or hill?</p> <p>Curves worst</p> <p>Eliminate some crossings: example Brockville: 4 to 5 crossings within 100 feet</p> <p>Farm crossings – don't need all as some not used and should be eliminated</p>	
<p>4.2 Sightlines for crossing users or train crews?</p> <p>Sightlines are not well enough maintained for train crews:</p> <ul style="list-style-type: none"> <li>- Varies by location</li> <li>- Montreal – Cornwall an effort has been made recently and CN has done a good job</li> <li>- West of Cornwall - problems (brush)</li> <li>- Alexandria</li> <li>- Different zones – not solved yet</li> </ul>	
<p>4.3 Crossing approach or surface condition?</p> <p>-</p>	
<p>4.4 Number of tracks to cross?</p> <p>Double track worst. Example 2 girls were killed because they didn't notice the second train</p>	
<p>5. What impact do the following have on collision risk at a private crossing:</p> <p>5.1 Weather conditions such as snow, rain, fog, etc?</p> <p>- people may not see signs</p>	
<p>5.2 Time of day or night?</p> <p>Worst time of day : once school is out.</p> <p>Season: holiday season, i.e .summer when there is no school (problems with kids)</p>	



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Discussion Item	Applicability
<p>5.3 <i>Lighting conditions?</i></p> <p>Seem to be less problems at night – train is more visible, as well cars with lights on can see signs well.</p>	
<p>6. <i>What role do surrounding conditions (i.e., urban, agricultural area, industrial area, woodlands, etc.) play in private crossing safety?</i></p> <p>Urban areas have big problems. Montreal has trespassing issues and the Toronto area has a lot of fatalities (trespassing people cut fences regularly, such as at DeCourcelles in Montreal next to Accueil Bonneau (mission for the homeless). Someone was even crossing the tracks with his snow blower on the track)</p> <p>Kingston: people cross fields</p> <p>Brockville: has blind spots</p> <p>No whistling at farm/private crossings</p> <p>(public crossings: Belleville has added crossing guards)</p> <p>(public crossing at St-Ambroise in Montreal is bad)</p>	
<p>7. <i>Is there any other anecdotal information or personal experience that you would like to share, with respect to overall private crossing safety or a specific problem location?</i></p> <p>R. Hart has participated in Operation Lifesaver and has given presentations to this group in the past</p> <p>Crossing design is not always conducive to safety; Locomotive Engineers should be consulted for design. The Human Factors affecting the crew must be accounted for. The effect of a fatality on the train crew is enormous (serious stress, psychological trauma, burnout)</p> <p>Farm crossings – too many – how many does a farmer need? Find way to group together</p> <p>People think their “rights” prevail over safety concerns.</p> <p>Best solution everywhere is to install 4 quadrant gates or full width gates.</p> <p>People are stupid:</p> <ul style="list-style-type: none"> <li>- no age group in particular</li> <li>- “It won’t happen to me” syndrome</li> <li>- People in too much of a hurry and will try to save 10 seconds by going in front of a train</li> </ul>	



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Discussion Item	Applicability
<p>7. <i>Is there any other anecdotal information or personal experience that you would like to share, with respect to overall private crossing safety or a specific problem location?</i></p> <p>...continued:</p> <p>Mirrors not useful for Locomotive Engineer, train travels too fast for them to be useful</p> <p>Rang Ste-Catherine - lots of switching – people race crossings</p> <p>Eliminate brush = eliminate hiding spots</p> <p>Public crossings should all be GCP protected</p> <p>Lancaster crossing with Highway 38 dangerous</p> <p>Geographically – certain crossings more dangerous (before curve or after hill) – should be removed</p> <p>Guess that there must be ± 900 to 1000 crossings between Montreal and Toronto, ± 350 that whistle is applied at</p> <p>LED lights on gate arms would be a good improvement</p> <p>Flashing lights instead of signs (especially in foggy conditions) would be very useful at private/farm crossings</p> <p>Low cost warning devices would be useful, example: solar powered, or illuminated signs visible at night</p> <p>(Interviewer's observations:</p> <ul style="list-style-type: none"> <li>- generally good visibility from locomotive due to height, but significantly affected by brush, curves, natural obstacles.</li> <li>- very high number of crossings on territory from Montreal to Kingston, both public and farm, fewer private)</li> </ul>	

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# Safety at Private Crossings – Railway Industry Stakeholders #21

Discussion Item	Applicability
<p><i>1. How do you become familiar with the locations, and conditions, of private crossings? How do you use that knowledge?</i></p> <p>Familiar based on experience on the route. The best crew on one route would be the worst on another route because of their knowledge of the territory</p> <p>Cobourg / Trenton to Brighton – dangerous areas</p> <p>Locations where CP and CN tracks are close together: example: 2 Freightliner trucks stuck between the CN and CP tracks (near Ile Perrot, Quebec)</p>	
<p><i>2. How often do you encounter situations at private crossings that you would consider unsafe or dangerous? Could you please describe examples of unsafe or high-risk situations that you have encountered in the past?</i></p> <p>2 times in 10 runs will see a dangerous situation at a crossing</p>	
<p><i>3. In your experience, what types of vehicles are most commonly involved in near misses, risky-behaviour or collisions (e.g., passenger vehicles, trucks, heavy construction equipment, recreational vehicles (ATVs or snowmobiles), farm equipment, etc.)?</i></p> <p>No particular vehicle type</p> <p>Example: Private transport company: accidents because drivers always racing trains across crossings, also had limited visibility. Possible solution: company to add a flagman to ensure drivers cross tracks safely. This was even suggested by the crew to the crossing owner after a near miss.</p>	



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Discussion Item	Applicability
<p>4. Which of the following crossing location/design characteristics do you feel contributes the most to the collision risk at a private crossings:</p> <p>4.1 Proximity to a curve, siding or hill?</p> <p>Farmers – less of a problem. No particular age group</p> <p>Owners OK – visitors can be dangerous</p> <p>Industrial crossings are often gated.</p> <p>Stop signs are a good idea</p> <p>Granby subdivision (CN) – many accidents in the past</p> <ul style="list-style-type: none"> <li>- People not aware of safety issues</li> <li>- Park right next to the track</li> </ul> <p>Farm gates help</p> <p>Mirrors are not useful for train crew but likely help owner</p> <p>Skidoo / ATVS – few problems at crossings (however there are many problems with these groups due to trespassing)</p> <p>Curves are the worst issue</p> <p>People don't expect train to come quickly</p>	
<p>4.2 Sightlines for crossing users or train crews?</p> <p>Restricted speed due to sightlines at some location</p>	
<p>4.3 Crossing approach or surface condition?</p> <p>-</p>	
<p>4.4 Number of tracks to cross?</p> <p>People often do not see a train on a second track, they are impatient to cross the tracks and do not check well (true at all crossings)</p>	
<p>5. What impact do the following have on collision risk at a private crossing:</p> <p>5.1 Weather conditions such as snow, rain, fog, etc?</p>	



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Discussion Item	Applicability
<p>5.2 <i>Time of day or night?</i></p> <p>At night, the trains have good headlights and can be well seen</p>	
<p>5.3 <i>Lighting conditions?</i></p> <p>As above</p>	
<p>6. <i>What role do surrounding conditions (i.e., urban, agricultural area, industrial area, woodlands, etc.) play in private crossing safety?</i></p> <p>More developed area = more people around to use crossings. Example: problems in Brockville due to youths engaging in risky behavior at crossings</p>	
<p>7. <i>Is there any other anecdotal information or personal experience that you would like to share, with respect to overall private crossing safety or a specific problem location?</i></p> <p>Idea – put stop sign at every farm crossings</p> <p>Pedestrian crossing (at Morgan Rd. ) multiple tracks – a dangerous location. The difficulties with the road crossing have been addressed but there is still a pedestrian crossing (commuter train station)</p>	

## Safety at Private Crossings – Railway Industry Stakeholder #22

Discussion Item	Applicability
<p><i>Regarding railway crossings, what specific crossing locations, approach conditions or environmental conditions create an elevated risk of incident, in your opinion?</i></p> <p>Conditions affecting line of sight, including curves in the road, gradients, vegetation, visible pollution, and automobile headlights, as they could be confused with train headlights.</p> <p>Gradients affect a vehicles acceleration time.</p> <p>The vehicle type, especially because of the slopes, and the time needed to clear a crossing (long vehicles).</p>	
<p><i>Provide some examples of mitigative measures recommended in the past regarding private railway crossings, and comment on their effectiveness to improve safety.</i></p> <p>Transport Canada does not provide those recommendations. Rather, the role of Transport Canada is to require the problem to be corrected. Nevertheless, some measures that have been beneficial are:</p> <ul style="list-style-type: none"> <li>- the addition of crossing St-André</li> <li>- the addition of a sign at private crossings</li> <li>- the addition of stop signs</li> <li>- the installation of a completely automated system</li> <li>- the installation of a system using block repeaters could be effective (the lights are lit when there is no train; the lights go out when a train is in the block)</li> </ul> <p>The question of using low-cost automatic systems is still under investigation since these installations must be “fail safe.” They have to do with developing new techniques.</p>	
<p><i>What difficulties, if any, have you encountered in the past in verifying that suggested/required changes were implemented? Were there any particular jurisdictional challenges?</i></p> <p>Problems are usually settled.</p>	



Discussion Item	Applicability
<p><i>What specific changes (with the technical, legislative, educational requirements or other areas) would you like to see introduced in order to reduce the risk of collision at private crossings?</i></p> <p>There exists a lack of tools. It is necessary to better define the requirements in the regulations for different types of private crossings and the standards should better define what to do at these locations. Also, specific technical standards should be established. For example, standards indicate the type of protection (fence or no fence, etc.) when there is a crossing providing access to more than one house.</p> <p>There should be a contact telephone number affixed to crossings that is not only for emergency cases.</p> <p>There is currently a subsidy program for farm crossings. It would be useful to have one for private crossings as well (particularly to improve the private crossings that have been around for a long time.)</p>	
<p><i>Is there any other information or personal experience that you would like to share regarding the overall security of private crossings?</i></p> <p>Private crossings have more problems and more users who are not accustomed to the crossing type, as opposed to farm crossings, with which users are more familiar.</p> <p>There is a significant problem when developers build housing without making a request that private crossings be made into public crossings. In this case, the railway lines are not sufficiently vigilant and allow the construction of these developments without access.</p> <p>The definitions of crossing type (private, farm, open, restricted, etc.) should be cleared up.</p>	



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## Safety at Private Crossings – Railway Industry Stakeholders #23

Discussion Item	Applicability
<p><b>Private Crossings:</b> Agreements signed in the past have been lost during the change of ownership of the railroad. It is difficult to find these documents and to do follow-up. The new owners do not know about the agreements and their responsibilities. The bigger problem occurs when owners of private crossings give approval to other users, without informing the railroad of it. The level crossings are not built for everyday use. The owners believe that they can do whatever they want.</p> <p><b>Farm Crossings:</b> There are difficulties when an owner only sells land on one side of the tracks. The railroad is not informed at the time of the sale of the land. Education is necessary in order to avoid these situations. Since 2005, much work has been done to close crossings, which are not used. The railroad wants to remove them as quickly as possible.</p> <p>Over the last 2 years, the railroad has closed ± 10 farm crossings (which were not necessary any more because the grounds had been divided)</p> <p>Changes in ownership (railroad or landowner) bring confusion.</p> <p>The railroad has problems convincing landowners to pay and sign crossing agreements. For example, a level crossing providing access to a residence has expenses associated with it but the owner does not want to pay.</p> <p>Also, there is a problem with several private level crossings because the former owner of the railroad began the process of negotiating an agreement with the owners, but there was no agreement of concluded. Nonetheless, people use the level crossings anyway. It would take a full-time person (for 3 to 4 months) to sort it all out. This would be too expensive for the railroad.</p>	
<p>The existing standards for authorizing crossings are sufficient.</p>	



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Discussion Item	Applicability
<p>Regarding sightlines, the G4-a standard is rather clear and adequate.</p> <p>There are situations there where there can be breaks in communications (especially with respect to public level crossings) which could cause a doubt in the establishment of sightlines, this needs to be clarified.</p> <p>The G4-a standard is used primarily. The conservation of sightlines is not easy when there are rocks, etc. Sometimes, requests for new crossings result in speed limits being imposed in order to have the necessary sightlines. Also, there are difficulties with maintenance when the vegetation is not on railway property. It is not easy to access private lands (there are a staff and resource shortages)</p> <p>The methods outlined in RTD-10 are rather clear. (For public crossings, it is necessary to imply the municipalities. For example, the City will install advanced warning signs telling the drivers to prepare to stop. The small municipalities do not know about the necessary steps the majority of the temps for establishing a crossing)</p> <p>Le railroad can generally get the necessary information to calculate sightline requirements. On the other hand, it all has to be put in order. It is difficult to approach the owners in order to negotiate.</p> <p>Regarding new requests, the costs as well as the steps to be followed discourage the applicants from proceeding. These people do not know about the regulation and the necessary steps.</p>	
<p>The approach slopes are problematic in several places. When there are steep slopes, the tractors do not want to stop, therefore, they do not take the time to look around well. This is often the cause of situations of near misses.</p> <p>The surface of crossing must be kept in good condition (must avoid the ice in winter and the holes).</p>	



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Discussion Item	Applicability
<p>Farm equipment us very broad and farm crossings must be widened in order to accommodate it. Private crossings have fewer problems related of the widths of the approaches.</p> <p>Largest of the problems is with recreational vehicles. The users do not think that there is a danger or that there are trains using the tracks. There is a lack of respect and/or ignorance of the dangers. The railroad transmits correspondences each autumn explaining the dangers associated with the railways, etc., but the railroad does not receive replies from the organizations. There are ± 12 snowmobile clubs on the territory, which use the private level crossings (they obtain an agreement of the owners before travelling on their land). Very often, these level crossings are defined for the exclusive use of the owners but the latter are not aware that they should not allow other users to use their crossings. The snowmobile clubs are not well informed. The railroad threatened to close these level crossings if people do not conform to the regulations. It is necessary that these clubs seek other trails because it is a very big problem. Also, especially for railways with little traffic, the snowmobiles cause a problem of snow and ice at the level crossings because these machines compact snow between the rail and the rut. This can cause a derailment and thus more maintenance is necessary. Also, trespassing is a major problem with snowmobiles.</p> <p>There have been improvements in dealing with contractors. The large contractors all know about the steps to be taken during work close to the railway. They were trained. On the other hand, small contractors know less the dangers and procedures. The latter trust the schedules of the trains and do not think that there can be a train in any time.</p>	
<p>More training and of education is required, particularly with the snowmobile clubs. It would be easier if the railroad could contact a provincial association, which would be given the responsibility to train their clubs. It is difficult when volunteers manage the clubs.</p> <p>Regarding owners, they must learn to be more responsible concerning the use of their level crossings. If they want to modify the use of their level crossings, they must make a request to the railways.</p> <p>Concerning the maintenance costs, the owners never want to pay these expenses but they want to use their crossings nevertheless (there are especially problems with crossings established by the former owner of the railroad whose agreements are not easily available)</p>	



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Discussion Item	Applicability
<p>Every fall and winter, the railroad transmits a letter to the municipalities, explaining the dangers associated with level crossings, such as snowdrifts at crossings and poor visibility. Also, the railroad explains the dangers with the association of snowmobile clubs as well as the problems, which they can cause.</p> <p>At private level crossings, additional panels indicating that the crossing is a private crossing were added in addition to the crossbucks and of the stop signs. The railroad does not install mirrors at crossings. There are very few crossings on curves (5 or 6%).</p> <p>On the roughly 200 miles of tracks operated by the railway there must be several hundred private crossings.</p>	
<p>The installation of stop signs on each side of the private level crossings is recommended. These are reflective and draw the driver's attention. There is another small railroad, which adopted these measures and installed crossbucks with a stop sign at each crossing. This would increase safety on the territory.</p>	
<p>It is necessary to improve training and education. It is necessary to clarify the rules with the municipalities, the users and the clubs so that they pay more attention. The users should be trained to not rely on the schedules of the trains (often, those who are struck by trains are those who live near the railways and rely blindly on the schedules, without considering the dangers.</p>	

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# Safety at Private Crossings – Railway Industry Stakeholders #24

Discussion Item	Applicability
<p>1. <i>Can you comment on the different challenges, be they technical, administrative, jurisdictional, or otherwise, involved in dealing with private crossings “by right” versus other types of crossings?</i></p> <p>Problems associates with Farm crossings:</p> <ul style="list-style-type: none"> <li>- the railway has no control over usage;</li> <li>- vehicles using crossings change often;</li> <li>- safety often not addressed by user;</li> <li>- property owners change and new owners are not aware of the dangers of “by rights” crossings;</li> <li>- difficult for railway to restrict unauthorized use</li> <li>- land owners operations can change yet the railway is still responsible for the crossing:</li> </ul> <p>Examples: case where a farm became a golf course and a sod company took over a farm, both new owners become upset when their crossings (farm crossing) becomes blocked by trains</p>	
<p>2. <i>Are there sufficient technical standards available in order to establish if a private crossing should be permitted and under what conditions?</i></p> <ul style="list-style-type: none"> <li>- Uses personal experience.</li> <li>- Railways are not required to allow the construction of private crossings, and when they do allow them they are governed by an agreement</li> <li>- Does not feel that technical standards are required, a location by location assessment is performed by CN and by the prospective crossing owner based on the railways experience with crossings;</li> <li>- All technical standards that are used for public crossings are a resource for private crossings. The railway decides if it can build the crossing safely, and the owner must follow the restrictions that are placed according to the agreement.</li> <li>- Old crossings must be upgraded to meet current requirements. Track supervisors must assess the crossing (they have the responsibility to monitor safety) and to modify the crossing with the costs assessed as per the agreement. Crossings are closed if needed.</li> </ul>	



*Applicability:*

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Discussion Item	Applicability
<p>3. <i>Do you have any thoughts regarding the determination or the preservation of sight lines at private crossings:</i></p> <p>3.1 <i>G4-A vs. the new requirements taking into account specific vehicle types, as set out in RTD-10?</i></p> <ul style="list-style-type: none"> <li>- Not much difference between G4-A and RTD-10, as G4-A indicates that sightlines must be increased by ½ if needed for the type of vehicle.</li> <li>- RTD-10 requires the use of a design vehicle. This is based on observation, local knowledge and common sense. Example: in Saskatchewan a “super-B truck” 80 feet long (3 trailers) is now used, and therefore the railway s must accommodate this vehicle at crossings.</li> <li>- Private crossings are under agreement. Since the railway is responsible for safety, they can barricade a crossing if required to ensure safety. No further restrictions are required.</li> <li>- Farm crossings cannot be closed. No additional guidelines are needed. Users must be educated. Also, when repairs/modifications are required to approaches, the users must be aware not to use the crossing until these approaches have been repaired.</li> </ul> <p>3.2 <i>Calculation of minimum sight line requirements?</i></p> <p>No further rules are required. The railway is responsible to make crossings safe, therefore they are responsible for accidents and incidents at farm crossings</p> <p>3.3 <i>Are the methods adequate and can the required information be readily collected?</i></p> <p>Sightlines must be determined using common sense and must be monitored by the railway. G4-A and RTD-10 are resources only.</p>	
<p>4. <i>Do you feel that the private crossing condition or the approach grades have a significant impact on the crossing safety? What associated issues have you experienced?</i></p> <p>No, they don't. Experience dictates that private crossing owners must maintain their crossings in good shape (maintenance const them money). If the railway is afraid of a safety issue they must repair the crossings (at no cost to the railway), there is no excuse.</p> <ul style="list-style-type: none"> <li>-Has not found a private crossing where the grades/planks are unsafe.</li> <li>- Farm crossings are similar. If planks are rotten it is an indication that the crossing is not used and can be removed (the railway can put the crossing back if it receives a request to do so). Farm users are not aware of sightlines, they are aware that they must cross safely.</li> </ul>	



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Discussion Item	Applicability
<p>5. <i>In your experience, does the type of vehicle (e.g., passenger vehicles, trucks, heavy construction equipment, recreational vehicles, farm equipment, etc.) or certain types of users affect the collision risk at private crossings?</i></p> <p>Yes. Private crossing owners are less at risk since they have good communication with the railway. It is up to CN and the owner to assess the risk and implement proper measures or close the crossing. When under agreement the owner has a responsibility for use and for costs. It is the railway's responsibility to ensure safety. The owners are not educated concerning risks.</p>	
<p>6. <i>Do you feel that education, awareness or training could be used effectively to address a particular type of user or groups of users?</i></p> <p>Yes. In the case of private crossings, the agreement becomes a training tool. Owners are aware of what they have signed. Transport Canada's brochures are handed out to private crossing owners in order to describe risks &amp; responsibilities.</p> <p>As a public works officer, seldom have the occasion to talk directly to owners. Track supervisors do communicate with the owners to straighten out issues.</p> <p>Snowmobile clubs are getting better as they now install signs along their trails. At locations where snowmobiles use old abandoned crossings, the railway closes the crossing. It is difficult for clubs with large membership to control all of their members.</p>	
<p>7. <i>What types of mitigating measures have you seen implemented to improve safety or address a specific concern at a private crossing? Do you have any suggestions for additional remedial measures?</i></p> <p>Mitigating measures seen:</p> <ul style="list-style-type: none"> <li>- installation of standard cross buck at private crossings;</li> <li>- installation of stop signs at private crossings;</li> <li>- locked gates;</li> <li>- "Watch for trains" signs;</li> <li>- stop signs at farm crossings;</li> <li>- implement whistling at certain locations, depending on risk;</li> <li>- mirrors have been successful so far, but they must be maintained (correct angle, and kept in good condition – sometimes they get used for target practice)</li> <li>- Track supervisors provide a report concerning the condition of all crossings in their territory (farm, private, public), so conditions are well reported and this allows good follow up by the regulatory officer</li> </ul> <p>Additional suggestions:</p> <ul style="list-style-type: none"> <li>- Close as many crossings as possible (no crossing = no risk);</li> <li>- Crossings should be established based on a need and not on a right - not all are needed</li> <li>- Transport Canada and the CTA must understand that many crossings that were installed a very long time ago and have not been assessed in time, vehicles have changed and owners do not understand the need to modify the crossings based on their usage (change from horse &amp; buggy to "super B" trucks).</li> </ul>	



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Discussion Item	Applicability
<p>8. <i>Can you suggest any specific changes that you would like to see enacted to reduce the risk of incidents at private crossings?</i></p> <p>- Correct the false assumption that the ownership of a private crossing comes along with the purchase of land. This assumption creates dangers. If the railways were involved during the sale of land, they would have the opportunity to discuss the safety and responsibility issues related to the crossing.</p>	
<p>9. <i>Is there any other anecdotal information or personal experience that you would like to share, with respect to overall private crossing safety or a specific problem location?</i></p> <p>No new private crossings have been permitted in the past 2 years in this territory. The first answer provided to someone requesting a crossing is to “find another way.” As well, often the construction of a crossing is too costly for the owner/user.</p> <p>A problem occurred when the City of Saskatoon sold land where there was no legal access to the property. An owner cannot sell property with a crossing without negotiating rights for the railway crossing. The name on the land title must match the name on the crossing agreement. Legally, one cannot provide access to another person’s property.</p> <p>In this territory, land is very flat and generally farm crossings are quite safe. There was one issue with the CTA (that was only negotiated over the telephone) whereby the railway had to accept a crossing with the farmer paying a portion of the costs.</p> <p>Few situations are taken to the CTA.</p> <p>The railway informs farmers that <u>a</u> crossing may be granted, not as many as they want. Usually the need for a crossing is understood, as well as the need to build the crossing the right way. There are some grey areas: in particular the definition of “a crossing”, this seems to vary by location and becomes problematic when land is subdivided.</p> <p>Track supervisors are told that if a crossing is not being used, to take it out. If a farmer then complains, the railway will put the crossing back in service after performing a title check (land ownership) and ensuring that the person requesting the crossing has the right to it.</p> <p>Data bases of owners (private crossings) are difficult to maintain, this requires extensive follow-up (railway not advised when land is sold). Municipal participation is requested when updating the data base of farm crossings, eliminating the need for the railway to perform title searches.</p>	



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## Safety at Private Crossings – Railway Industry Stakeholders #25

Discussion Item	Applicability
<p>There have not been a lot of implications to date as Technical Services usually took care of these elements.</p> <p>He is consulted concerning visibility and obstacles:</p> <p>The elements that generate bad visibility are: big slopes, bends, and rock cuts.</p> <p>Train speed equally affects visibility.</p> <p>There have not been any administrative or jurisdictional issues.</p>	
<p>No issues so far, the existing technical standards are sufficient for determining whether or not private crossings should be permitted.</p>	
<p>Rule G4A is presently used for determining sightline distances.</p> <p>He does the calculations on the spot according to the rule G4A, especially for the farm crossings.</p> <p>The calculations for RTD-10 are not so simple/clear.</p> <p>Appraisal of methods and availability of data is often an issue of the individual's interpretation of the requirements and depends on experience and knowledge of the territory.</p>	
<p>Yes. For example:</p> <p>At farm crossings: tractor-trailers with heavy loads can have problems because of the approaches.</p> <p>The slopes can also create problems for ploughs.</p> <p>Long equipment can be problematic, the situation can arise where the tractor is on one side of the tracks and the trailer is on the other; this position creates a big risk with hanging on the rail. In these situations, the rail can be broken without the driver even realizing it.</p> <p>Often, issues arise out of a general lack of information.</p>	



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Discussion Item	Applicability
<p>Long vehicles</p> <p>Example: Private crossings at a golf club. The club did the snow clearing at the crossing with a small shovel and they were completely unaware of how dangerous their actions were.</p> <p>Furthermore, if the owners do not clear the snow from their crossing correctly, the snow can become very hard. Recently, a train derailed under similar conditions. The owners are not aware of the problems that can be created by their actions.</p> <p>Again, people often lack information or they are not aware of the dangers.</p> <p>Recreational vehicles (e.g., snowmobiles, 4 wheelers) are very dangerous. These users do not generally use enough caution/sensibility.</p> <p>The conditions can equally be different, depending on the manner in which the crossing was built.</p> <p>Example: When he was at CN, there were private crossings used by a lot of truck drivers. The risk depended on the driver and his education concerning the safe use of the crossing.</p>	
<p>Yes. Sensibility is required since there is a general lack of information concerning the dangers.</p> <p>Example: Snowmobile clubs can have an authorization for a crossing, but these clubs do not give any information to the users. The railways feel powerless facing the clubs, etc. since there is an impact on the local economy (tourism) if the crossings are closed on a trail.</p>	
<p>There are no mirrors used on the territory of the CFMG, but maybe it would be advantageous to some to add them in places with rock cuts.</p> <p>There is a lack of information from the municipalities. The municipalities should have to consult the railways before issuing a construction permit.</p> <p>Example: A municipality granted a construction permit for cottages, when the lone access was through a farm crossing. As a result the people now use this crossing as municipal access. The municipalities are not concerned with the status of the crossings. They should have to try to channel traffic towards a public crossing that is already built.</p>	

Discussion Item	Applicability
The municipalities should be made aware of the required procedures concerning private crossings, especially regarding construction permit agreements (these problems rarely exist for the public crossings). They should have to consult the railways before issuing permits.	

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# Safety at Private Crossings – Railway Industry Stakeholders #26

Discussion Item	Applicability
<p><b><u>Technical challenges:</u></b> The configuration (slope and width); the number of level crossings (many); how to improve the existing level crossings at farms (in comparison, the new private level crossings, can refer to RTD-10 and can refuse some if it is necessary); in general, tries to avoid building new level crossings at farms but must agree to build some even if the conditions are not ideal because these owners have a right acquired to the passage.</p> <p><b><u>Administrative challenges:</u></b> How to control the use of these level crossings. In the case of the level crossings at farms, it is extremely difficult to make the follow-up with the owners and the users (sale of grounds etc). It will be necessary to develop regulations considering this reality. In the case of the new private level crossings, they are built and signposted according to RTD-10. A contract is signed between the parties, which makes management much easier.</p> <p><b><u>Jurisdictional challenges:</u></b> The closing of level crossings at farms, or even the refusal, is difficult when an owner decides to involve the Office of Transport. The OTC can grant the right to conserve/construct the level crossing even if the railroad, supported by Transports Canada, wishes to close it or not to allow the construction of a new level crossing at a farm, for reasons of safety.</p>	
<p>The technical standards are rather clear. The regulations suggested prohibited the construction of all level crossings when the speed of the trains is more 80mph. On the other hand, the legal standards lack precision, for example, the number of level crossings of per lot or owner, or over a certain length of the way, is not defined.</p>	



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Discussion Item	Applicability
<p>i) RTD-10 must be simplified in order to apply it to the level crossings at farms. Necessary time to cross to the passage must be provided. The type of vehicle using the level crossings at farms changes very quickly. Concerning the level crossings at farms and the private level crossings, precise information that will be required by RTD-10 concerning the vehicles is seldom available. With respect to the private level crossing of a company, the level crossing is built according to the standards for public level crossings, and information is usually available. Given how serious the consequences of an accident can be, we also have to use our best judgement to determine the sightlines, e.g., increase necessary time in comparison with the necessary time calculated according to RTD-10.</p> <p>ii) It is difficult to apply RTD-10 to the site. It is necessary to have a simple chart, which could be applied by the personnel on the spot. Also, it is difficult to apply the new requirements to existing level crossings.</p> <p>iii) It is necessary to simplify the procedures, necessary information are not available for the level crossings at farms. For the majority of the private level crossings, too much research is necessary in order to obtain the information from the owners.</p>	
<p>The technical element having the most impact seems to be the visibility. The second element seems to be the configuration including the slope, especially for farm crossings. It is difficult to establish the sedentary maximum slope, in order to make sure that the equipment does not get hung-up on the tracks. The equipment using the crossings changes with time. The modernization of the equipment creates a risk because the level crossings at farms were not conceived with consideration this equipment. The railroads are not specialists in farm equipment (dimensions, acceleration, etc.).</p> <p>Equipment such as trucks "low-beds" can get hung-up on the rails because of the approaches. It seems however that we have fewer accidents at farm crossings in comparisons with the private crossings because there is often public access to the private crossings.</p>	
<p>The various types of vehicles can generate variances on the severity of the consequences of an accident. The farm equipment seems less problematic because their users know their equipment well and are aware of the risks associated with it.</p> <p>The collision risk, in my opinion, is associated with the users more than with the vehicles. There is often a lack of concentration on the part of the drivers, which generates a more significant risk for collisions. Also, there is a higher risk when the users trust the usual hours planned for the passage of the trains.</p>	



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Discussion Item	Applicability
<p>Education is a good tool, but more training and awareness is necessary. This would be an effective means to improve safety with the level crossings. The creation of targeted advertising campaigns, including the setting in specific situation would be probably beneficial (e.g. of the advertisements to television directed to the users of farm or private crossings). More training is provided for public level crossings (by the railroads with the municipalities and by Transports Canada) compared to what is made for the private level crossings. When the railroad is in liaison with the users of the private level crossings, there is indirect training/awareness. Concerning farm crossings, there is little or no contact with the owners. The railroads do not have a database of the owners. The track supervisor is, in many cases, the only contact with these people.</p>	
<p>Mitigating measurements:</p> <ul style="list-style-type: none"> <li>- To require the trains to sound their whistles;</li> <li>- The addition of mirrors improves the visibility.</li> <li>- "Walk/Don' T walk" pedestrian signals (at farm crossings);</li> <li>- Automatic Warning Systems (for transport companies, factories, etc.).</li> </ul> <p>Suggestions:</p> <ul style="list-style-type: none"> <li>- To consolidate level crossings in order to eliminate some;</li> <li>- To give responsibility for the maintenance of the approaches of the level farm crossing owners (as has been done for the private crossings).</li> </ul>	
<p>To set up subsidies for automated systems at level crossings with public access (e.g. country cottages, etc.) especially those which are pseudo-public level crossings. This would improve safety and could interest the municipalities to take part. Also, by improving these level crossings, it could make it possible to close other level crossings in the vicinity.</p> <p>More initiative on the part of Transport Canada and the Office of transportation of Canada to consolidate and close level crossings, e.g. proactive approach, contact the owners in order to offer subsidies.</p>	



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Discussion Item	Applicability
<p>The pseudo-public level crossings seem more at risk. They cannot be closed because they give access to several properties and must also give access to emergency services. The railroad does not have control over the users. The right to use the level crossing is usually given to an owner, but, as an example in the case of access to a country cottage, several residences can be added without the railroad being informed, so they don't have a chance to intervene. The possibility that several users use the level crossing is very probable. Level crossings at farms as well as the level crossings without restricted access are exposed to this type of risk.</p>	



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# Safety at Private Crossings – Railway Industry Stakeholders #27

Discussion Item	Applicability
<p>1. <i>Can you comment on the different challenges, be they technical, administrative, jurisdictional, or otherwise, involved in dealing with private crossings “by right” versus other types of crossings?</i></p> <p><u>Technical:</u>            Farm crossings – problems with existing crossings. Crossings were placed where the farmer wanted them, not necessarily at the safest place. More vigilance is applied today.</p> <p>The type of equipment used at farm crossings today is larger machinery. As equipment usage has changed over the years as the technology of moving goods has changed. Existing conditions do not support the type of equipment that is now used. Owners should be required to pay to upgrade their crossing according to the usage of unusual vehicles.</p> <p>Technical information isn’t always available.</p> <p>Example: farm crossings typically 16 to 20 feet wide in the past. Now, equipment (combines, sprayers, etc.) now require 40 feet plus for crossing surfaces. Trucks are heavier and longer than the 5 ton truck used in the past.</p> <p><u>Administrative:</u></p> <p>Small private crossings for residential use are almost impossible to close, no matter how dangerous they can be.</p> <p>Example: 1.) Cost to protect crossing may exceed users’ ability to pay, however still need crossing to access home.            2.) A property having access via a small private crossing can get subdivided and lots sold off. The crossing then becomes a “de facto” public crossing that the railway is responsible for (no road authority involved).</p>	



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Discussion Item	Applicability
<p>1. <i>Can you comment on the different challenges, be they technical, administrative, jurisdictional, or otherwise, involved in dealing with private crossings “by right” versus other types of crossings?</i>  <i>Continued:</i></p> <p>A solution to this type of problem is to implement a requirement that developers’ permits be screened by adjacent land owners (including the railways). Some improvement has been seen in the Edmonton area in this regard.</p> <p><u>Jurisdictional:</u></p> <p>Have received rulings form the CTA in the past that were based on convenience, not necessarily on safety. The CTA must be more critical in their definition of necessity versus convenience.</p> <p>There is room for involvement from the CTA to help reduce the number of crossings. A push to consolidate crossings has not been seen from the CTA.</p>	
<p>2. <i>Are there sufficient technical standards available in order to establish if a private crossing should be permitted and under what conditions?</i></p> <p>Currently use the Highway-Railway Grade crossing regulations, Transport Canada sightlines, the TAC Manual and RTD-10. These are also used at private and farm crossings within limitations.</p> <p>Small private crossings can be difficult because the owners are not aware of these standards and cannot provide adequate information in order to use the standards easily. These can be the worst type of crossing.</p> <p>Larger private crossing (i.e. industries) can usually provide the required information.</p> <p>The railways use the standards to ensure that crossings meet the requirements.</p>	



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Discussion Item	Applicability
<p>3. <i>Do you have any thoughts regarding the determination or the preservation of sight lines at private crossings:</i></p> <p>3.1 <i>G4-A vs. the new requirements taking into account specific vehicle types, as set out in RTD-10?</i></p> <p>RTD-10 will be hard to achieve due to the lack of information available regarding vehicle types that are used at these crossings. This information is not often available to the railway.</p> <p>Currently use G4-A and increase the time by 50% for vehicles or grades.</p> <p>Some relaxing of the rules may be required for certain types of crossings, such as for low use private crossings, or seasonal crossings (snowmobile trails that are only used for part of the year).</p> <p>Preservation of sight lines: Private crossings achieve G4-A requirements when they are installed. However, the areas around these crossings get built up later (sheds, hay bales, trees, etc. sometimes intentionally to reduce noise from the railway tracks). The owners are not aware of the importance of the preservation of sightlines. As well, there is a lack of information regarding the responsibility of the owner/user in this regard.</p>	
<p>3.2 <i>Calculation of minimum sight line requirements?</i></p> <p>Currently use G4-A + 50%.</p> <p>Applicants do not understand the requirements, and it may become necessary to involve engineering firms for this.</p>	
<p>3.3 <i>Are the methods adequate and can the required information be readily collected?</i></p> <p>It becomes questionable if the methods using G4-A plus 50% is adequate. A past study undertaken by Transport Canada regarding truck acceleration showed that trucks can require as much as 30 seconds plus to cross tracks. G4-A + 50% is not sufficient in these cases.</p> <p>Always try to account for the vehicle type when an applicant is requesting a crossing. However, the railways are not always provided with the correct information.</p>	



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Discussion Item	Applicability
<p>4. <i>Do you feel that the private crossing condition or the approach grades have a significant impact on the crossing safety? What associated issues have you experienced?</i></p> <p>Grades play a major role in the clearance time.</p> <p>Approaches must be well kept, the gravel approaches must be well maintained and may not have an earth crossing within the distance of the largest vehicle using the crossing in order to ensure that the vehicle can get onto and off of the tracks as quickly as possible. The approaches must be well maintained to ensure that the vehicle has good traction.</p> <p>Curvature of the approaches just after a crossing must be carefully considered (example: a fork in the road just after the crossing)</p> <p>The build up of signage can block sightlines (example: small business signs)</p>	
<p>5. <i>In your experience, does the type of vehicle (e.g., passenger vehicles, trucks, heavy construction equipment, recreational vehicles, farm equipment, etc.) or certain types of users affect the collision risk at the private crossing?</i></p> <p>Yes.</p> <p><u>Vehicles:</u> Large slow moving vehicles at industrial crossings with passive signs, where no whistling is required are dangerous. Similar for farm crossings.</p> <p><u>Users:</u> The most dangerous are drivers paid by the haul, they are always in a rush.</p> <p>(ATVs and snowmobiles cause few problems at crossings, clubs are not bad at self policing, this is more of a trespassing issue)</p>	
<p>6. <i>Do you feel that education, awareness or training could be used effectively to address a particular type of user or groups of users?</i></p> <p>Yes. However, one can give a lot of information out, but driver attitude will still be the controlling factor.</p> <p>Example: Transport Canada has brochures designed specifically for users of farm and private crossings. These are given out when a crossing is granted.</p> <p>Large industries having Health and Safety officers are not bad, their drivers are aware of safety issues. It is much more difficult to impose industry safety rules on independent drivers; however safety should be part of their contract to work.</p>	



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Discussion Item	Applicability
<p>7. <i>What types of mitigating measures have you seen implemented to improve safety or address a specific concern at a private crossing? Do you have any suggestions for additional remedial measures?</i></p> <p>Anything that is used at public crossings can be used at a farm or private crossing, including full automatic warning systems although this is often a last resort due to the cost and is more common at industries.</p> <p>Mirrors have been installed at farm crossings.</p> <p>Flagmen (private) have been used at location where many close calls were observed. Example: an industry where a high number of independent drivers used the crossing was advised that their crossing would be closed unless they used a flagman to ensure that no vehicles crossed the tracks when trains were approaching. This initiative was also backed by Transport Canada.</p> <p>Small independent crossing owners cannot afford signal systems. Transport Canada should make funding available to these owners, especially in situations where the crossing usage has changed.</p> <p>Crossings should be consolidated and closed. This is especially desirable in cases where warning systems become necessary, it is better to build a road to a public road, or use a better crossing location.</p>	
<p>8. <i>Can you suggest any specific changes that you would like to see enacted to reduce the risk of incidents at private crossings?</i></p> <p>Grant fewer crossings</p> <p>There is a need for more awareness of the standards required, it is difficult for residential applicants to understand the requirements and to provide the required information.</p> <p>Must continue to refuse to grant crossings. Once a crossing had been refused, applicants then take their case to the CTA. The CTA's role is to arbitrate concerning the necessity of the crossing, the application does not include information required to review the safety of the crossing. While the CTA does consult Transport Canada, the CTA often does not require detailed plans, therefore it is not possible for Transport Canada or the railway to determine if the crossing is safe.</p> <p>More consultation is required concerning the minimum information required for a proper review.</p>	



*Applicability:*

**A** – Arbitration or Negotiations, **C** - Collision Risk/Safety Issues, **M** – Crossing Maintenance, **O** - Operations and Maintenance Procedures, **R** - Regulations, **S** – Crossing Security and Access, **T**- Training/Awareness, **U** – Crossing Utilization, **V** – Types of Vehicles, **W** – Warning System/Signage



Discussion Item	Applicability
<p>9. <i>Is there any other anecdotal information or personal experience that you would like to share, with respect to overall private crossing safety or a specific problem location?</i></p> <p>There are now as many farm and private crossings as public crossings. Some work has been done with Transport Canada to consolidate public crossings. Would like to see Transport Canada become involved in the consolidation of private crossings (in terms of funding). Currently the \$5000 that Transport Canada grants for the closure of a farm/private crossing is the only funding available.</p> <p>Railways need the backing of Transport Canada in order to get municipalities involved in cases regarding access to cottages etc., in order to build a common road for landowners (need finding to purchase land and for construction).</p>	



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## Safety at Private Crossings – Railway Industry Stakeholders #28

Discussion Item	Applicability
<p>Requests for new crossings: the railroad generally refuses them in order to avoid the addition of level crossings on their network. At present, these three railroads together have more than 200 private level crossings or farm crossings on 1130 miles of railway. When a request is received, the railroad warns the applicant to re-examine the surrounding level crossings in order to close some or to combine the crossings before building new ones. Until now, there no was call to TC.</p> <p>Existing Crossings: these level crossings are re-examined if the SMS (Safety Management System) requires it, or according to an incident/investigation. These crossings are re-examined according to the RTD-10 guidelines. Following the evaluation, there are level crossings, which change status (2 recent cases).</p> <p>When there are recommendations put forth to the owners by the railroad, the owners accept them because they want to preserve their level crossings. To date, a complete database of these level crossings is under development. This is a challenge because of the resources required.</p> <p>An administrative challenge is the lack of contracts in certain cases or the clauses concerning maintenance. This railroad is a small railroad, which has bought lines of a "Class 1" railway company in 1997; the original documents are often missing.</p>	
<p>There are sufficient technical standards for determining if private crossings should be allowed. At the legal or regulatory level, if they oppose the TC requirements, since RTD-10 is not yet the official standard, it could create difficulties.</p>	
<p>The G4-a standard is not used. RTD-10 is the basic tool for a detailed evaluation for new requests.</p> <p>Calculations are done according to the requirements' of RTD-10. The observations are made on the spot and a detailed evaluation is made with the agent.</p> <p>The information is available and the methods are adequate. However, to collect information, that takes resources and time.</p> <p>The standard is current and applies relatively well (RTD-10).</p>	



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Discussion Item	Applicability
<p>Absolutely, crossing surface and approach conditions affect crossing safety.</p> <p>For example, a company, which refills cisterns for propane gas has a private level crossing where the slopes are not adequate, the approaches will have to be re-examined. The visibility is inadequate also. There have been dangerous incidents there.</p>	
<p>Yes, the type of vehicle is important.</p> <p>For example, the company that refills cisterns for propane gas has many tankers for propane/gasoline. The municipal regulation requires that the supply center be enclosed (protected). This causes a problem with the private level crossing approaches; there are fences on each side of the crossing, which increases the possibility of obstructions ("queuing") from these trucks full of dangerous goods. A better geometric configuration and the installation of barriers would help decreased the risk.</p> <p>Technically, it is a private level crossing, but contactors also use it. Also, there are ±30 passages per day, which is far more than the 2 outlined in the agreement.</p>	
<p>The education/training/awareness could be effective if there were penalties enforceable by the law to support the actions.</p> <p>Information is provided when an applicant makes an application for a level crossing. The owners understand the importance of safety but do not invest in improvements if they do not have obligations to do so.</p> <p>The work of Transport Canada/Direction 2006 is very good. There could be even more awareness training aimed at the public.</p> <p>Changes to standards, as well as changes to existing level crossings, over time, create non-conforming crossings.</p>	
<p>Observations to date: private level crossings and farm crossings do not have automatic warning systems. The approaches (levelling) and the sightlines are significant. Lighting and fences are installed were need.</p> <p>Last year, there was a crossbuck installation program for private crossings (work was carried out by a private contractor)</p> <p>Convex mirrors could be also added, at particular locations.</p>	



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Discussion Item	Applicability
<p>Transport Canada could create a data-processing tool in order to index the data in the field, plus an algorithm, which would give requirements following the data-processing analysis, would be useful.</p> <p>RTD-10 is not easy to put into action within a day or two because of the resources it requires. Prioritisation is thus needed to determine what needs to be done first.</p>	
<p>It is unfortunate that there are not enough resources for the small railways.</p> <p>Until RTD-10 becomes obligatory by legislation, the thing to do would be to urge the provincial and municipal governments to close level crossings (not to open some). At present, no municipality is taking the initiative to close level crossings. It seems that they do not know about the benefit associated with closures.</p> <p>The financial assistance should be offered for the construction of alternative means of access (i.e., not rail crossings). The current Transport Canada practice of giving subsidies of \$5000 (private) and \$20 000 (public) for crossing closures is not sufficient.</p>	

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## Safety at Private Crossings – Railway Industry Stakeholders #29

Discussion Item	Applicability
<p>The majority of these crossings were constructed many years ago. Often it is impossible to get in touch with the owner when the land has been sold. The owners sell or subdivide the grounds without informing the railroad. Thus there are difficulties because the railroad does not have control, nor are they informed.</p> <p>It would be necessary to make sure that the passages meet the minimal standards of today, on the other hand it can be very expensive to modify certain level crossings in order to be in conformity with the standards of today.</p> <p>Over of the years, there are cases where certain level crossings were granted “by right,” ignoring the existing laws of the time and the crossings should not be considered level crossings “by grace.” When this type of crossing is removed and that thereafter the owner makes a request to get it back, it is difficult to convince people that they do not have the right to have a level crossing.</p>	
<p>With regard to farm crossings, the owners can do what they want with them, example: change of vocation, subdivision, etc. With regard to private level crossings, there are few technical standards. For example, there are no applicable technical standards for the level crossings for all terrain vehicles or snowmobiles. There are many risks associated with these types of level crossings and there are more and more crossings of this type.</p> <p>Equally, concerning companies that ask for private level crossings, there are few technical standards, but one can use those that apply to public level crossings. However, the difficulties arrive when owners ask for level crossings for use by cars, small trucks, or for the personal use, but later, they start to use it for larger equipment and the level crossing is not conceived for this use.</p> <p>There are no standards to control the change of vocation of a level crossing and are there not of standards to support the decision of the railroads to prohibit the access to them.</p>	



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Discussion Item	Applicability
<p>The vehicle type used at a level crossing is often difficult to determine. Transport Canada should make a study with RTD-10 in order to check if the requirements of the G4-A standard would not be always acceptable. It is necessary to simplify the analysis and the data requirements. At present, the railroad uses the G4-A standard for the sightlines during inspections. In my opinion, new RTD-10 seems to give results similar to the G4-A standard.</p> <p>The track supervisors are responsible for maintaining sightlines. RTD-10, in its current form, is too complicated to use for the private level crossings. In general, it is complicated for a track supervisor to use RTD-10 on the site and it is not very practical (not very "user-friendly").</p> <p>Normally, information is extracted according to discussions' with the applicant. It becomes more difficult in the cases of change of vocation, (e.g. in the beginning, a user having a house uses its crossing for access with a car but later the owner builds a garage for 18-wheel trucks, etc.)</p>	
<p>There are problems with approach slopes. There are many cases of steep slopes and especially on dirt tracks, ice forms quickly in winter. It thus becomes difficult to go up to the approaches and moreover, to descend a slope slipping towards the railway increases the risk of accidents. Perhaps other recommendations could be made in order to increase necessary time according to G4-A? For example to include more adjustments which could be applied in order to take account of particular conditions.</p> <p>When inspecting a level crossing, it is necessary to inspect the sightlines according to the sitting position in a vehicle, because there is a great difference in visibility between this position and that a person standing trackside.</p> <p>The surface of a crossing must be well maintained. If the surface is jolty, the vehicles will slow down and take more time to cross the tracks.</p>	
<p>Slow vehicles, as well as the slow and long vehicles bring more risks. Also, low vehicles ("flatbeds") can have difficulty because they rub on the rail and get wedged (there were recent incidents of this nature).</p> <p>Equally, I was recently a witness at an incident with a truck at an un-signed level crossing. The approaches were gravel. The truck-driver did not stop, but rather slowed down until the level crossing and accelerated thereafter. He did not have the chance to check well if a train approached. The truck could easily have been struck by a train. In this case, the sightlines were not adequate for the user of the level crossing.</p>	



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Discussion Item	Applicability
<p>It is not very probable that the education/training makes a great difference. The public adopts an attitude, which is difficult to change. There is a complacency, which is well anchored in the practices of the users.</p> <p>People cross the crossings 10 times per day during several years and believe that they are in control. It is difficult to reverse this attitude. It would be perhaps useful to reinforce the idea that a train can circulate in any time, on the mainlines.</p>	
<p>Attenuating measures include:</p> <ul style="list-style-type: none"> <li>• The installation of mirrors in the event of lack of visibility                             <ul style="list-style-type: none"> <li>• The mirrors can help</li> <li>• Applicable to level crossings having a very low volume only, that will not be adequate for situations with many users</li> </ul> </li> <li>• Stop signs                             <ul style="list-style-type: none"> <li>• Were installed at farm crossings on two complete subdivisions</li> <li>• These signs are more effective because people are accustomed using them</li> </ul> </li> </ul> <p>Other suggestions:</p> <ul style="list-style-type: none"> <li>• On the high-speed lines, install signs indicating to pay attention because there are trains at high-speed. These panels will have to be standardized, especially for the less frequent users.</li> <li>• At the places where there is a geographical situation, which could divert the attention of the user, add a sign reminding them to look around and use mirrors at the places where it is warranted, etc.</li> <li>• To have Transport Canada subsidies in order to improve these level crossings.</li> </ul>	



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Discussion Item	Applicability
<p>Require owners to make the necessary investments/improvements to the level crossings. Often level crossings built 70 years ago are adequate for use of today. The vocation often changes. At the time, small vehicles used the crossings, now large trucks use them. Also, there are level crossings, which gave access to small companies, but these companies have changed and the public now has access to these places via the small level crossing.</p> <p>Have a requirement, which would require the owner to warn the railroad when there are changes of crossing usage.</p> <p>Obligation for the owners of private crossings to combine level crossings and build ways on the private properties in order to connect them together. There are many situations where there are 4 or 5 crossings in a distance of ± 500 feet. Also, it would be desirable to have subsidies for this work.</p>	



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Discussion Item	Applicability
<p>It would be significant to educate the municipalities and lawyers implied in the sales of land. The problem is that the municipalities and the lawyers do not always check if there is a legal access to a property at the time of a sale. There is no communication with the railroad during this process. Often, the new owner does not have any right to have a level crossing. There should be a legislation to force the municipalities to make necessary research to check if there is a legal access to the properties, before the purchase or the construction of a residence.</p> <p>It would be significant to have subsidies form Transport Canada in order to improve the safety of level crossings as much as the public level crossings.</p> <p>Often, if the railroad refuses to grant a level crossing, thereafter the applicant implies the CTA. The CTA decides that the applicant has the right to have a level crossing because it is landlocked. In these cases, the CTA should be a little more reticent with these requests. For example, with a distance X (to be determined) of a public level crossing, there should not be private level crossing. One should try not to increase the number of private level crossing. For example, a resident asks to have a level crossing which existed 60 years ago and which was dismantled 20 years ago. In this type of situation, the CTA should require a look at the possibility of having access other than by a private crossing.</p> <p>A recent example: The railroad refused to grant a level crossing (the applicant did not have the right to have one). Then, the applicant demanded a private level crossing but did not want to pay to have it (construction and maintenance). The railroad tried to convince the applicant to build a driveway towards another level crossing. There is one on each side, a public and private. This alternative would be probably less expensive than the adjustment of a new level crossing. Clear standards should be established.</p> <p>The owner has the impression that the railroad is responsible for all and expects to receive this access without large expenditure. It would be better to have additional support from Transport Canada (non-financial), such as a more active participation in the closing of level crossings.</p>	

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# Safety at Private Crossings – Railway Industry Stakeholders #30

Discussion Item	Applicability
<p>1. <i>In your opinion, what specific crossing placements, approach scenarios, or surrounding conditions create an elevated risk of incidents at private crossings?</i></p> <ul style="list-style-type: none"> <li>- Steep approach grades;</li> <li>- Poor sightlines due to curves, brush, rock cuts;</li> <li>- Road intersections very close to crossing generating conditions where there is not enough room for a tractor with a trailer.</li> </ul>	<p><b>M</b></p> <p><b>C, V</b></p>
<p>2. <i>Please, provide some examples of mitigation measures recommended in the past at private crossings, and comment on their effectiveness in improving private crossing safety.</i></p> <ul style="list-style-type: none"> <li>- Any measures taken are usually taken against the Railway, however Transport Canada may apply measures against a private individual or against a road authority as well;</li> <li>- Measures applied against the railway usually consist of slow orders which are required until remedial measures have been applied. The application of slow orders is very effective;</li> <li>- Transport Canada often participates in meetings with the railway and the crossing owner when there are difficulties, and may discuss appropriate measures to be taken;</li> <li>- Rarely suggests the addition of mirrors, while may be effective at crossings used by an individual farmer, they can also have problems due to the reflection of the sun at certain times of day, and they may also fog up;</li> <li>- Rarely suggests the addition of stop signs at farm crossings;</li> <li>- Often suggests improvements to approach grades;</li> <li>- Transport Canada may refuse to allow the construction of a crossing for a given reason, if the elements based on which the crossing was refused are corrected, Transport Canada may not refuse to permit the installation of a crossing.</li> </ul>	<p><b>C</b></p> <p><b>C</b></p> <p><b>S</b></p> <p><b>S</b></p> <p><b>M</b></p> <p><b>R</b></p>
<p>3. <i>What, if any, difficulties have you encountered in the past in ensuring that the changes suggested/requested are put in place? Have there been any particular jurisdictional challenges?</i></p> <p>Few difficulties have been experienced. Most railways and municipalities will react quickly if a “Notice &amp; Order” is issued, although these are rarely issued. The threat of a “Notice &amp; Order” is often sufficient to generate a response.</p>	



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Discussion Item	Applicability
<p>4. <i>What specific changes (to technical requirements, legislation, education or other areas) would you like to see implemented to reduce the risk of collisions at private crossings?</i></p> <p>The coming into effect of the new regulation and associated standard (RTD-10) will be adequate. Once the regulation will have been enacted, education will be required for the preparation of Safety Assessments (as well, the safety assessments are too detailed and he feels that this process needs to be modified and simplified).</p> <p>He feels that RTD-10 is applicable at farm and private crossings.</p>	<p><b>R</b></p>
<p>5. <i>Is there any other anecdotal information or personal experience that you would like to share, with respect to private crossing safety?</i></p> <p>To his knowledge, no difficulties have arisen in Ontario due to the sale or subdivision of land having a private or farm crossing. In his experience, the railways are always aware of upcoming developments and are involved. He is not aware of any situations where land was sold without proper access.</p> <p>In the past (10 years ago) there seem to have been more safety issues with these types of crossings. Crossing surfaces and grades have been improved, and crossing approaches have been widened to accommodate larger farm equipment.</p> <p>As well, the crossing closures program has been effective due to the efforts made by the railways in encouraging owners to close crossings.</p>	<p><b>U</b></p>



# Safety at Private Crossings – Railway Industry Stakeholders #31

Discussion Item	Applicability
<p>1. <i>In your opinion, what specific crossing placements, approach scenarios, or surrounding conditions create an elevated risk of incidents at private crossings?</i></p> <p>All farm and private crossings are dangerous simply by their existence, The government has no control over design and placement regarding safety matters for these types of crossings. There are no legislative requirements for Transport Canada to oversee the design, or location of these crossings. This will partly be mitigated by the proposed crossings legislation to be enacted as this proposed legislation will address the main issues.</p> <p>The biggest issue is that there is no control by a railway or by Transport Canada over the vehicles used at farm crossings, often these were built for use by horse and buggy. Now large vehicles with hazardous materials use these crossings. By law, the users have the right to cross. (RTD 10 will help this issue – design vehicle requirement)</p>	
<p>2. <i>Please, provide some examples of mitigation measures recommended in the past at private crossings, and comment on their effectiveness in improving private crossing safety.</i></p> <p>Not many mitigating measures recommended by Transport Canada At some locations the following are used: convex mirrors Block indicators or lights indicating the presence of trains are of assistance</p> <p>Transport Canada does not regulate the design of these types of crossings. They must ensure that is safe from railway point of view. Generally, railways do not consult TC for these. Obviously, if Transport Canada sees one with an obvious threat to safety, they will act.</p>	
<p>3. <i>What, if any, difficulties have you encountered in the past in ensuring that the changes suggested/requested are put in place? Have there been any particular jurisdictional challenges?</i></p> <p>Transport Canada cannot order road authority / private owner to make changes, instead Transport Canada can place speed restrictions on the railway as the railway is responsible for ensuring safety. In the past, Transport Canada has encouraged the railways to act with individuals, this works reasonably well.</p> <p>Transport Canada will intervene when there is an immediate threat to safety.</p>	



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Discussion Item	Applicability
<p><i>4. What specific changes (to technical requirements, legislation, education or other areas) would you like to see implemented to reduce the risk of collisions at private crossings?</i></p> <p>Putting the proposed legislation &amp; RTD-10 into place is an absolute must, as quickly as possible. Under the current legislation there is no clear definition of who is responsible for safety, this will be remedied by the proposed new regulation (including the associated technical standard RTD-10)</p> <p>Transport Canada and the Canadian Transportation Agency (CTA) have a good relationship. The CTA is only involved in cases of dispute and they always consult Transport Canada if they are involved. If the CTA is not involved, Transport Canada does not necessarily know that a crossing will be put in. The CTA rules based on the legal right to a crossing. Transport Canada has no ability to deny a crossing, they may only provide recommendations based on safety that may make the crossing prohibitive.</p>	
<p><i>5. Is there any other anecdotal information or personal experience that you would like to share, with respect to private crossing safety?</i></p> <p>Generally, road use on farm and private crossing is fairly low. Generally they don't pose as high a threat as is associated with the higher level-of-use of public crossings.</p> <p>In the prairies there seems to be fairly good knowledge by farmers as they are closely linked to the railway. They seem to be a bit more aware than farmers in other regions.</p> <p>There have been few accidents in the 3 Prairie provinces.</p> <p>Transport Canada is involved with railways for closure of farm crossings. However, there has been somewhat limited success to date. There is little incentive for the farmers to close the crossings. Even if the crossing gets closed, they can apply and have it put back into place. There is a bit of a "disconnect" between the CTA and the farm crossing closures program, this needs to be clarified.</p> <p>Private and farm crossings typically fall below the radar, Transport Canada does not have a database of these crossings and does not inspect them unless there is a problem (manpower issue). There are probably about 4000 private/farm crossings in Manitoba, Saskatchewan and Alberta.</p>	



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## Safety at Private Crossings – Railway Industry Stakeholders #32

Discussion Item	Applicability
Locomotive engineers familiarize themselves with the locations and conditions of private crossings on their subdivisions through experience, trial and error, and the shared experiences of other engineers. They are provided with subdivision profiles; however, the lack of details in the profiles seriously limits their usefulness.	<b>T</b>
Crossing conditions generally change very slowly over time (as brush, trees grow along the right-of-way). However, when brush or trees grow to a size where they inhibit sightlines, it can be a challenge and can take a significant while to get sightlines cleared when the obstruction originates on private lands.	<b>O</b>
For safety sake, the railways should be granted the authority to clear sightline obstructions that originate on private lands after a significant notification period, if the landowners do not act on their own.	<b>R</b>
Locomotive engineers encounter some type of unsafe behaviour/activity on virtually every trip (e.g., stalled vehicles on the tracks, cars or people playing “chicken” with the train, ATVs or snowmobiles on the tracks, people not paying attention/distracted by other activities – cell phones are a major distracter).	<b>C</b>
One of the major detriments to crossing safety in western Canada is the installation/use of farm gates at private crossings. All too frequently crossings users will park their vehicles across the tracks when they get out of their vehicles to unlock/open the gates.	<b>C</b>
In situations where farm gates are deemed necessary for farming activities or access control, the gates should have to be set back (100m) from the railway right-of-way. Texas gates could be used as an alternative to farm gates to prevent livestock from wandering onto the railway right-of-way.	<b>S</b>



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Discussion Item	Applicability
<p>Based on experience, the worst types of users are as follows:</p> <ol style="list-style-type: none"> <li>1. Passenger vehicles (particularly SUVs and old beaters);</li> <li>2. Farm equipment and bulk fuel delivery vehicles;</li> <li>3. Commercial trucks (tractor trailers);</li> <li>4. Bicycles; and</li> <li>5. Recreational vehicles (ATVs, dirt bikes, and snowmobiles).</li> </ol>	<b>V</b>
<p>The railways have a near miss policy; however, “most near misses go unreported.” The justification is that the relative speeds of trains and vehicles make getting the required details virtually impossible. As such, nothing generally results of reporting a near miss, and engineers take to opinion that it is not worth their effort to make a report. A conservative estimate is that 75% of near misses don’t even get called in.</p>	<b>R</b>
<p>The following features have a significant impact on crossing safety:</p> <ul style="list-style-type: none"> <li>• Crest of hill – limits sightlines;</li> <li>• Sidings – no crossing should ever be authorized over/near a siding;</li> <li>• Crossing surface condition – poor conditions causes an increase in crossing time;</li> <li>• The number of tracks – second train issues, greater exposure</li> <li>• Multiple users served by a single crossing – lakeside cottages or subdivisions.</li> </ul>	<b>C</b>
<p>Extreme weather conditions have a significant impact on crossing safety, particularly weather events that reduce visibility (e.g., hoarfrost, whiteouts). The fact that whistle posts have a white backing doesn’t help in these conditions.</p>	<b>C</b>



*Applicability:*

**A** – Arbitration or Negotiations, **C** - Collision Risk/Safety Issues, **M** – Crossing Maintenance, **O** - Operations and Maintenance Procedures, **R** - Regulations, **S** – Crossing Security and Access, **T**- Training/Awareness, **U** – Crossing Utilization, **V** – Types of Vehicles, **W** – Warning System/Signage



Discussion Item	Applicability
Time-of-day and/or time-of-year factors affect crossing safety. For example, holidays and rush-hour spikes in traffic volumes increase the probability that an incident will occur (increased exposure).	<b>C</b>
Lighting conditions affect visibility and crossing safety; darker conditions allow for greater contrast and it is easier to spot headlights, whereas well-lit crossings are easier to navigate.	<b>C</b>
Industrial areas are particularly dangerous, because of their characteristic close quarters and buildings that extend to the edge of the railway right-of-way.	<b>C</b>
Suggestions: <ul style="list-style-type: none"> <li>• Billboards and other roadside distractions/obstructions should not be allowed near crossings;</li> <li>• The industry should move towards building more parallel access roads rather than more private crossings; and</li> <li>• The railway authorities should close or consolidate as many private crossings as possible.</li> </ul>	<b>C</b>
Has been involved in several (including fatal) crossing collisions and has vivid firsthand understanding/appreciation of the dangers and impacts.	

**Applicability:**

**A** – Arbitration or Negotiations, **C** - Collision Risk/Safety Issues, **M** – Crossing Maintenance, **O** - Operations and Maintenance Procedures, **R** - Regulations, **S** – Crossing Security and Access, **T**- Training/Awareness, **U** – Crossing Utilization, **V** – Types of Vehicles, **W** – Warning System/Signage

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## **IDENTIFICATION AND EXAMINATION OF SAFETY AT PRIVATE CROSSINGS**

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**PHASE 3 INTERIM REPORT - REFERENCE #T8200-044506**

**SEPTEMBER 2006**



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# 1. INTRODUCTION

## 1.1 Background

Over the past several years, the safety of private crossings has come under increasing scrutiny. Between 1995 and 2003 there was on average 45.1 collisions per year at private crossings. Crossing incidents can affect numerous stakeholders, such as the vehicle and equipment drivers, railway operating personnel, railway passengers, property owners, municipalities, and federal authorities.

Some potential causes of grade-crossing incidents have been identified and include, but are not limited to, increased exposure times, operator expectancy violations, poor crossing designs, and lack of education and notification.

In July 2005, IBI Group in association with UMA Engineering Ltd. (hereafter referred to as the IBI Group Team) was retained to complete a study to identify and examine the key factors of safety at private crossings (Reference Number: T8200-044506).

The study is comprised of the following three phases:

- **Phase 1: Review of Available Information and Data** – Obtain and evaluate available literature, statistics and data relating to private crossing collisions/incidents, warning systems and signage, access, operations, maintenance, user education, and applicable laws and regulations;
- **Phase 2: Collection of New Information and Data** – Conduct surveys and interviews of stakeholders in relation to the provision, use, operation, management and safety of private crossings. Based on the interview findings, identify and assess risk mitigation strategies specific to private crossings; and
- **Phase 3: Conclusions and Recommendations** – Formulate and document conclusions and recommendations relating to the root causes, symptoms, and risk mitigation strategies related to collisions/collision potential at private crossings.

Phases 1 and 2 have been completed and submitted to the Project Steering Committee (PSC). This document represents an Interim Report covering Phase 3 of the study.

### 1.1.1 PHASE 1: REVIEW OF AVAILABLE INFORMATION AND DATA

Through the efforts of Phase 1, the IBI Group team gained a greater understanding to the state of private crossing safety in Canada. Crossing incident statistics and reports were reviewed in detail, as were existing standards, regulations, legislation, and educational initiatives. Based on the information gathered from those sources, the IBI Group Team formed several conclusions regarding their impact on safety at private crossings. The information gathered in Phase 1 contributed to the development of the stakeholder interview questions for Phase 2, allowing the IBI Group Team to compare/evaluate the conclusions with/against the opinions and insights provided by stakeholders.

**1.1.2 PHASE 2: COLLECTION OF NEW INFORMATION AND DATA**

A total of forty-four (44) stakeholders nationwide, including representatives from across the railway industry, and private crossing owners, were interviewed as part of Phase 2 of the study. Based on their input, and the information collected through Phase 1, the IBI Group Team was able to conduct an analysis of private crossing safety using a “life cycle” approach. Considering new crossing submissions, new crossing construction, crossing operations and maintenance, and management of existing crossings, the IBI Group Team identified a set of contributory factors that influence private crossing safety. Subsequently, a series of potential risk mitigation strategies was developed to address the contributory factors. The contributory factors and potential risk mitigation strategies identified under Phase 2 are summarized in Exhibit 1-1.

**Exhibit 1-1: Contributory Factors and Potential Risk Mitigation Strategies**

<b>Contributory Factors</b>	<b>Potential Risk Mitigation Strategy</b>	<b>Project Profile</b>
<b>New Crossing Submission and Approval:</b>		
[1] Railway/land owner agreements are not created for all crossings	<ul style="list-style-type: none"> <li>Railway/landowner records must be created and maintained for all private crossing regardless of type: “by right” or “by grace”</li> </ul>	Crossing Inventory
[2] Agreements and CTA decisions do not document crossing use and vehicle type permissions	<ul style="list-style-type: none"> <li>Agreements and CTA decisions must explicitly document intended crossing use and vehicle type at time of approval.</li> </ul>	Access Management
<b>Operations and Maintenance:</b>		
[3] Railways are not properly notified of changes in crossing use or vehicle type	<ul style="list-style-type: none"> <li>Crossing owners should be provided with explicit information regarding their crossing permissions. This could be conveyed through the railway/owner agreement and reiterated in a crossing owner “information package”.</li> </ul>	Crossing Inventory/ Education and Awareness Programmes
[4] Crossing owners need explicit information regarding the use and operations of their crossing	<ul style="list-style-type: none"> <li>Crossing owners need explicit information regarding their crossing responsibilities, use, maintenance, liabilities and communication protocol.</li> </ul>	Crossing Inventory/ Education and Awareness Programmes
[5] Railway operators do not have a comprehensive list of private crossing nor their ownership	<ul style="list-style-type: none"> <li>Establish and maintain a comprehensive and current list of private crossing locations and ownership status.</li> </ul>	Crossing Inventory
[6] Unfamiliar or infrequent users of a private crossing are not provided with education with regards to the crossing operations	<ul style="list-style-type: none"> <li>Create and distribute one comprehensive crossing owner’s information package, which outlines basic safety at private crossing education materials, including contact information.</li> </ul>	Education and Awareness Programmes

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IDENTIFICATION AND EXAMINATION OF SAFETY AT PRIVATE CROSSINGS

Contributory Factors	Potential Risk Mitigation Strategy	Project Profile
<p>[7] Unfamiliar or infrequent users of a private crossing are not always provided with widely recognized and understood regulatory, warning and information signs.</p> <p>[8] Emergency contact information is not provided at the crossing site.</p> <p>[9] Poorly marked or maintained crossings may lead an unfamiliar user incorrectly assuming the railway operations are not active or are not a substantial threat.</p>	<ul style="list-style-type: none"> <li>• Standardized private crossing signs, unique crossing identification numbers, and emergency contact numbers must be posted at all private crossings and kept in a good state of repair. The installation of stop signs, mirrors or other devices could also be an effective tool in some locations.</li> </ul>	<p style="text-align: center;">Crossing Design</p>
<p>[10] Crossing owners may not understand the responsibility and implications of authorizing the use of their crossings by other</p>	<ul style="list-style-type: none"> <li>• Create and distribute one comprehensive crossing owner's information package, which outlines the safety implications and responsibilities of allowing access to their private crossing.</li> </ul>	<p style="text-align: center;">Education and Awareness Programmes</p>
<p>[11] Crossing owners are not provided with procedures or contact information to convey maintenance or operational issues to the appropriate rail official</p>	<ul style="list-style-type: none"> <li>• Create and distribute one comprehensive crossing owner's information package, which outlines rail general and emergency contacts and basic crossing maintenance and operations information, i.e., sight lines, approach condition, etc.</li> </ul>	<p style="text-align: center;">Education and Awareness Programmes</p>
<p>[12] There are no standard designs or operating procedures for access control devices such as gates</p>	<ul style="list-style-type: none"> <li>• Develop standard access control applications/procedures.</li> </ul>	<p style="text-align: center;">Access Management</p>
<p>[13] There are no formal mechanisms for railways to inform crossing owners that train activity at a particular crossing is changing</p>	<ul style="list-style-type: none"> <li>• Establish a comprehensive and current list of private crossing locations and ownership status.</li> </ul>	<p style="text-align: center;">Crossing Inventory</p>
<b>Change in Ownership/Access:</b>		
<p>[14] Railways are not properly notified of changes in ownership</p>	<ul style="list-style-type: none"> <li>• Legal transfer of lands adjacent to rail right-of-way must include railway notification or approval</li> </ul>	<p style="text-align: center;">Access Management</p>
<p>[15] Railways are not always properly notified of changes in land use permissions</p>	<ul style="list-style-type: none"> <li>• Municipalities should always notify railways of plans for development next to railway rights-of-way and at locations to be served by any such adjacent lands.</li> </ul>	<p style="text-align: center;">Access Management</p>
<p>[16] Owners/potential owners are not properly notified of their crossing operations and ownership responsibilities</p>	<ul style="list-style-type: none"> <li>• Crossing owners should be provided with explicit information regarding their crossing permissions</li> <li>• Legal transfer of lands adjacent to rail right-of-way must include railway notification or approval</li> <li>• Private crossing information must be forwarded to new owner with real estate documents. A crossing owner information package would facilitate this process.</li> </ul>	<p style="text-align: center;">Access Management</p>

Contributory Factors	Potential Risk Mitigation Strategy	Project Profile
<b>Crossing Closure and Consolidation:</b>		
[17] The ability to reduce the number of private crossings is limited to the crossing closure incentive program and limited railway/owner negotiations.	<ul style="list-style-type: none"> <li>The current subsidy of \$5,000 offered by Transport Canada for the closure of a private crossing should be increased to more realistically reflect the costs of establishing an alternative access; the railways should also be more actively involved in attempting to establish access alternatives.</li> </ul>	Access Management
[18] The current funding programs limit contributions of Transport Canada to supporting crossing closures.	<ul style="list-style-type: none"> <li>Transport Canada should have the freedom to provide subsidies to pay for safety improvements and alternative access, in addition to crossing closures.</li> </ul>	Access Management

## 1.2 Phase 3 Scope and Objectives

Phase 3 is comprised of the following tasks and objectives:

- Task 1: Develop Conclusions and Recommendations** – For this task, the IBI Group Team has developed a set of risk mitigation strategies (comprised of short-term risk mitigation strategies and risk mitigation project profiles).

A two-stage approach is proposed for implementing the risk mitigation strategies. The first stage involves the undertaking, in the short-term, of a series of direct, uncomplicated tasks, intended to encourage immediate progress in addressing private crossing safety. The short-term strategies are outlined in Section 2. Section 3 on the other hand, presents a set of project profiles that define longer-term assignments, which will require significantly more time to plan and implement. The following are outlined for each of the risk mitigation project profiles:

- Primary benefits of each strategy and its application to a specific contributory factor or group of factors;
  - Implementation of pilot or trial projects, preliminary study designs (including potential deployment milestones) and future research requirements for each;
  - Probable delivery participants and if applicable, potential partnerships initiatives;
  - Budgetary level costs and potential funding sources; and
  - Potential barriers to implementation, including legal, regulatory, project finance, technical, and landowner response.
- Task 2: Final Documentation** – The final documentation will be an amalgam of the Phase 1, 2, and 3 interim reports, and will include an executive summary. Task 2 will be completed after a review of the Phase 3 interim report by the PSC.

## 2. SHORT-TERM RISK MITIGATION STRATEGIES

In addition to the risk mitigation projects described in Section 3 of this document, the IBI Group Team has developed a series of risk mitigation strategies that could be implemented in the short-term. The short-term strategies focus on relatively simple tasks that with little initial planning could have an immediate impact on safety at private crossings.

### 2.1.1 INFORMATION SHARING AND AUDITING

Transport Canada should request each railway to forward a comprehensive set of their most up-to-date crossing records. This would provide Transport Canada with knowledge of the current record keeping practices of the railways, and allow the railways to demonstrate their existing processes for conducting inventories and updates. Based on the information provided Transport Canada could determine what data would need to be included in any future data management system. The goal of the task would be to review current data management practices and gauge the need to place more stringent requirements on the types of data collected and maintained by the railways.

### 2.1.2 CROSSING IDENTIFICATION CODES

Transport Canada should develop, in consultation with the railways, a unique crossing identification code/number for every crossing. Ideally, the crossing identification code would reference the proprietary railway, subdivision, and mileage of the crossing. This would then be added to the crossing records inventory. The goal of the inventory would be to gain an up-to-date count of all private crossings in Canada, and to assign each crossing a quick-reference identification code for use in emergency situations. Although it is recognized that most railways are already using similar naming conventions, the addition of an abbreviated railway name to the code would be of benefit to emergency responders. Emergency services will have to be made aware of the conventions used, and partnered with to maximize efficient use of the information (e.g., geographic/GPS mapping of crossings to improve response times).

### 2.1.3 MINIMUM SIGNAGE FOR PRIVATE CROSSINGS

As a minimum, every private crossing should be equipped with a sign that clearly displays the emergency contact telephone number for the appropriate railway. Signs should have the contact number posted on both sides of the crossing, and be kept in a good state of repair. As an additional measure, crossing mile markers and/or unique crossing identification numbers should be posted along with the emergency contact telephone numbers. The railways should be requested to deploy these signs at private crossings immediately, as a retrofit program. The goal of posting emergency contact telephone numbers at the crossing site is to provide a mechanism for all crossing users to inform the railways of potential hazards.

### 2.1.4 CROSSING DESIGN STANDING COMMITTEE

Transport Canada, along with the railways, should seek to form an inter-jurisdictional private crossing design/standards development group. The group would be similar in nature and intent to the Railway Safety Consultative Committee, which appears to have ceased operation (last meeting minutes posted online – October 22<sup>nd</sup>, 2001). The group would be tasked with determining the initial requirements for such initiatives as a “private crossing” sign, minimum requirements for standard private crossing installations (e.g., access controls, geometry, signs, inspection tools, etc.), and target groups for education/awareness programmes. The group could be a one-time venture or it could meet at regular intervals. The goal of the group would be to determine which railway safety projects should be conducted, and limit the amount of legwork required to obtain input from the railway industry on future projects, such as those profiled below, in Section 3.

### 2.1.5 PRIVATE CROSSING RECORDS

Each railway should develop a standard crossing record document (or form), to act as a surrogate for a formal crossing agreement, and to be completed for every new crossing “by right.” The record should contain such information as: crossing owner contact information, intended/design use and

vehicle type for the crossing, and owner and railway responsibilities (physical and/or financial). Traditional crossing agreements should continue to be documented for all new crossings "by grace," and they should contain, as a minimum, the information described above. Periodic reviews and updates of all crossing records and agreements should also be conducted to maintain current information. All parties should receive a copy of the record, and records should be filed with the CTA. The goal of private crossing records is to formally document crossing constraints, responsibilities, and contact information.

### 3. RISK MITIGATION PROJECT PROFILES

Realizing that some of the factors having a negative impact on private crossing safety will require further investigation, and the proposed mitigation measures will require a significant timeframe for implementation, the IBI Group Team has developed a set of recommended risk mitigation project profiles. The project profiles provide "work plan"-level details for the implementation of risk mitigation measures. The proposed project profiles address the following areas:

- **Access Management** (development reviews, crossing applications, and crossing closures);
- **Crossing Inventory** (cataloguing, land/crossing transfer tracking, and crossing status);
- **Crossing Design** (crossing standards, tools for the railway industry, and technologies); and
- **Education and Awareness Programmes** (approach, target groups, and proliferation).

The third column of **Exhibit 1-1** identifies the project profile(s) that address each of the contributing factors listed in the first column of the exhibit. A summary of the contributing factors addressed by each project profile is also provided with the respective profile below.

#### 3.1 Access Management

This project addresses contributory factors 2, 12, 14, 15, 16, 17, and 18.

##### 3.1.1 OBJECTIVE

To review existing development/planning review processes and establish a set of access control guidelines for private crossings that are similar in nature to those used in the roadway engineering industry, and that include consideration for crossing applications, development reviews, and crossing closures.

##### 3.1.2 PROJECT TASKS

**Task 1: Development/Planning Process Review** – Conduct a nationwide evaluation of provincial and municipal planning and development review processes to determine the level of railway inclusion. The task would seek to explore the differing levels of input and influence afforded to railways concerning development or land use changes on lands adjacent to railway rights-of-way. The review would also include an internal audit of the railways, to determine whether or not their existing processes of providing feedback for planning/development reviews include input from all the appropriate departments.

**Task 2: Land Transfer Process Review** – Conduct a nationwide examination of land transfer laws and processes to determine the extent to which the railways are notified of changes in landownership, particularly for lands having private crossings. Should there be a duty within the real estate community to notify the railways of land transfers? The study would also explore the level of railway input on land transfers, and the need to provide the railways with a mechanism for protecting their interests with respect to land transfers (e.g., to explain the impact of land transfer on crossing rights and responsibilities, and to help the railways keep their records current).

**Task 3: Access Management Guidelines** – Develop a set of access management guidelines, similar in nature and intent to those used in the roadway engineering industry, for private crossings. The guidelines would have implications on virtually all stages of the private crossing “life cycle.” Exhibit 3-1 maps some of the elements that would potentially be included in the guidelines to the stages of the private crossing “life cycle” that they would affect.

**Exhibit 3-1: Potential Access Management Guideline Elements**

<b>Guideline Element</b>	<b>Stage of Private Crossing “Life Cycle”</b>
• Number of crossings allowed	• Crossing submission/provision
• Proximity of adjacent crossings	• Crossing submission/provision
• Functional design of crossings	• New crossing construction
• Conditions on crossing uses	• Operations and maintenance
• Closure of Crossings	• Operations and maintenance

The Draft Railway Right of Way Access Control Regulations (15 November 2002) appear to have been developed with similar intents; however, the access management guidelines, as proposed above, would take the concept to the next level. The proposed guidelines would provide Transport Canada and the CTA with more options and greater influence over where and how private crossings are allowed.

**Task 4: Crossing Closure Funding Study** – Review the existing programmes (formal or otherwise) offered by the railways and Transport Canada. Evaluate the effectiveness of the existing programmes in closing private crossings and improving crossing safety. Also, conduct a study into the actual costs of closing a private crossing, and establishing alternative means of access. The study could include surveying potential closure sites and conducting engineering estimates for the construction of alternative means of access to the property. The goal of the study would be to determine a reasonable subsidy to be offered to private crossing owners as an incentive to close their crossings, and recommend the set of conditions under which the subsidy should be offered.

**3.1.3 DELIVERABLES**

- Access management guidelines for private crossings document.
- Recommendations for changes to private crossing closure funding programmes.

**3.1.4 PARTICIPANTS**

- Railway Departments: Public Works, Engineering, Real Estate
- Transport Canada
- Canadian Transportation Agency

- Crossing Owners
- Real Estate Community
- Municipal/Provincial Government Planning Departments

### 3.1.5 BENEFITS

- Ensuring that the railways have an opportunity to represent their interests in the land development process;
- Helping the railways keep their records current;
- Developing consistent standards or requirements for access to and across the railway right-of-way;
- Educating planners on railway standards and requirements; and
- Establishing guidelines that railway staff can apply quickly and consistently.

### 3.1.6 COSTS

A high-level estimate of the cost for this project is \$100,000, to retain outside consultants. The cost estimate does not include the costs to the railways or other agencies for their participation or the costs of any hardware or equipment that might be required.

### 3.1.7 POTENTIAL BARRIERS

Any changes to legislation could face resistance, and would be subject to lengthy review and approval processes. Altering the mandates of Transport Canada and/or the Canadian Transportation Agency could prove to be a significant challenge. Development moves rapidly, and any delays incurred as a result of additional review processes would be costly and strongly opposed.

## 3.2 Pilot Crossing Inventory Update

This project addresses contributory factors 1, 3, 4, 5, and 13.

### 3.2.1 OBJECTIVE

To update, document and track the ownership, design, and maintenance status of a cross-section of private crossings through a pilot study, as a means of estimating the resources required for monitoring crossing conditions and use, and maintaining direct lines of communication between the railways and crossing owners.

### 3.2.2 PROJECT TASKS

**Task 1: Contact Crossing Owners** – Establish a line of communication with the owners of a sample of private crossings under the jurisdiction of each railway. Communication could be established through existing records or through a contact initiative, for crossings where the contact information of record is out-of-date (e.g., a notice to contact the railway posted at the crossing site).



The pilot study would be used to gauge the rate of response of crossing owners to various contact initiatives.

**Task 2: Crossing Agreements and Records** – Ensure that a crossing agreement (for crossings “by grace”) or official record (for crossings “by right”) exists or is created for every private crossing included in the pilot study. This will require the acquisition of and subsequent review/update of the existing crossing agreements and follow up to ensure that the proper individual (current owner) is indicated on the agreement/record.

**Task 3: Data Management** – Create a single comprehensive database of crossings for each railway (using the information gathered through the pilot study to initially populate the database), and provide all railway departments with access to the database. Some discussion will be required to determine the extent of information to be contained within the database (e.g., crossing ID, location, owner contact information, design vehicles/use conditions, date of last inspection, link to crossing agreement/record, GPS coordinates, etc.). The databases provided as part of the pilot project will be incomplete, in that they will only contain data for the crossings included in the pilot project.

**Task 4: Database Maintenance** – Develop procedures for maintaining and updating the database. This could involve creating a new step in the crossing inspection process and/or periodic follow up with crossing owners to update contact information. Task 4 could include a subproject of developing mechanisms by which the railway and real estate communities can efficiently and accurately exchange information regarding land transfers and changes in ownership.

### 3.2.3 DELIVERABLES

- Updated information for crossing included in the pilot study;
- A database of private crossings for each participant railway to be completed by the railways; and
- Procedures for maintaining the database and ensuring communication between railways and real estate regarding land transfers.

### 3.2.4 PARTICIPANTS

- Railway Departments: Real Estate, Public Works, Engineering
- Real Estate Community
- Crossing Owners

### 3.2.5 BENEFITS

- Shorter reaction/response times for railways and emergency services in dealing with safety issues and emergency situations;
- Up-to-date records and agreements that provide official documentation of private crossing responsibilities;
- Established lines of communication between stakeholders (e.g., railways, landowners, and the real estate community); and

- “Lessons learned” from pilot project can be used to design and implement a program to be followed by all railways, for all crossings in Canada.

### 3.2.6 COSTS

A high-level estimate of the implementation costs for this project is \$200,000. Creating and maintaining the database might require the hiring of additional railway personnel, as it is unlikely that the railways would outsource the work, and some railways might not currently have the human resources to perform the task. Equipment costs might be realized through the need for new or additional servers or computer terminals for storing, sharing, and accessing data. The cost estimate does not include the costs to the railways or other agencies for their participation or the costs of any hardware or equipment that might be required.

### 3.2.7 POTENTIAL BARRIERS

The greatest barrier to this project will likely be the identifying, contacting, and following up with crossing owners. The response rate of crossing owners will also have a significant impact on the duration of the project and the evaluation of contact initiatives.

## 3.3 Crossing Design

This project addresses contributory factors 7, 8, and 9.

### 3.3.1 OBJECTIVE

To develop standard private crossing installations, tools to aid railway industry personnel, and explore the potential of new crossing technologies.

### 3.3.2 PROJECT TASKS

**Task 1: “Private Crossing” Sign** – Design a “private crossing” sign that would be easily recognizable to new crossing users and serve to notify potential crossing users that the railway is active and should be treated with caution. The sign could also incorporate the emergency contact telephone number and the crossing identification code.

**Task 2: Standard Private Crossing Installation** – Design a standard low volume private crossing installation, including but not limited to:

- Required signage and placement (e.g., “private crossing” signs, emergency contact numbers, and crossing identification numbers);
- Proper and appropriate conditions for the use of stop signs at private crossings;
- Specifications for the installation of mirrors (size and placement);
- Specifications for the installation of gates or other physical access controls (including setback from the railway right-of-way); and
- Specifications for the installation of additional crossing technologies at low volume crossings (e.g., wayside horns, block repeaters with lights, etc.), including proper and appropriate conditions/guidelines for their installation.

**Task 3: Railway Industry Tools** – Develop a set of easy-to-use tools (e.g., charts, spreadsheets, and/or conceptual design of software applications) for use by railway industry personnel in designing and inspecting private crossing. The tools would facilitate the calculation of crossing parameters; such as, sightlines and approach grades. The tools would be based on the proposed RTD-10 guidelines, and as such, they would consider design vehicle characteristics. Ideally, the tools would accurately calculate crossing parameters while requiring only a few easily attainable input variables. A set of charts or manuals containing the operating characteristics of various types of vehicles and industrial/agricultural equipment (more information than what is currently available in RTD-10) could also be developed to accompany the tools.

**Task 4: New Technologies** – Conduct an evaluation of new technologies with the potential to contribute to improvements in railway safety and/or assist in crossing inspections. Develop recommendations for the application of new technologies (under specific deployment) at private crossings. The evaluation could involve one or several pilot deployment studies and a re-evaluation of the need for wayside technologies to be failsafe.

### 3.3.3 DELIVERABLES

- A standardized design for a “private crossing” sign to be installed at all private crossings.
- A set of specifications for a standard private crossing installation.
- Easy-to-use tools for railway industry personnel to employ in the design and inspection of private crossings, and possibly an accompanying manual of vehicle operating characteristics and acceleration charts.
- Recommendations on the applicability of new technologies at private crossings.

### 3.3.4 PARTICIPANTS

- Railway Departments: Public Works, Engineering
- Transport Canada

### 3.3.5 BENEFITS

- The likelihood of design standards being applied correctly will increase if the standards are easier to work with and apply.
- Consistency in crossing installations across regions and jurisdictions.
- Improved tools for the railways.

### 3.3.6 COSTS

A high-level estimate of the implementation costs for this project is \$150,000. The development of standards and tools will require significant consultation with the railways, and evaluating new technologies could involve a fairly exhaustive research assignment, as such, the cost of this project will be comprised primarily of consulting fees. The cost estimate does not include the costs to the railways or other agencies for their participation or the costs of any hardware or equipment that might be required.

### 3.3.7 POTENTIAL BARRIERS

One potential barrier could be the difficulty involved in trying to minimize the required input data for new tools while trying to maintain the accuracy of the results. Also, the applicability of new technologies could be limited by the railway industry requirement that they be failsafe.

## 3.4 Education and Awareness Programmes

This project addresses contributory factors 3, 4, 6, 10 and 11.

### 3.4.1 OBJECTIVE

To inform private crossing owners and users of their responsibilities, and to raise the general level of awareness regarding the proper use of private railway crossings and appropriate emergency procedures.

### 3.4.2 PROJECT TASKS

**Task 1: Information Package** – Develop a crossing owner/user information package that describes the general requirements and responsibilities of a private crossing owner, for example:

- Notifying the railway of changes in crossing use or vehicle type;
- Adhering to the terms of the crossing agreement;
- Educating users on the proper use of the crossing; and
- Paying for improvements, when required.

The package would also include general information for the owner, including general and emergency contact numbers, emergency procedures, and basic crossing maintenance and operations information. More specific information (e.g., a copy of the crossing agreement/record indicating permitted vehicle types, conditions of use, etc.) could be included in the package depending on the level of detail available to the railways and their desire to build customized packages. **It is imperative that the information package and all of its contents be presented in layman's terms, as to make it explicitly clear.**

**Task 2: Information Package Distribution** – Distribute the information package to private crossing owners at the time of crossing authorization, when they take ownership of a crossing via land transfer, and/or periodically over the life of the crossing (e.g., on an annual basis). Distribution of the information package could be conducted in conjunction with Tasks 2 and/or 3 of the Crossing Inventory project or subsequent to the completion of that project.

**Task 3: Driver Education** – Conduct a thorough review of the various driver education handbooks, courses, and exams used across Canada and internationally; evaluate their treatment of railway crossing safety issues; and develop a set of recommendations to address any shortcomings. Recommendations could include a set of standardized emergency procedures for inclusion in provincial and territorial manuals or specific focus on railway crossing safety issues during driver examinations. Particular emphasis should be placed on educating commercial drivers and drivers who more often frequent rural areas.

**Task 4: Public Awareness Campaign** – Given the recommendations for installing emergency contact number, crossing identification number, and standardized “private crossing” signs at all private crossings, a public awareness campaign explaining how to use the new information, launched through the media, would help with driver recognition.

#### 3.4.3 DELIVERABLES

- A crossing owner/user information package containing general (and/or site-specific) information, contact numbers, and descriptions of procedures.
- Recommendations for improvements to driver education related to railway crossing safety.
- A public awareness campaign explaining the significance and use of “private crossing” signs and emergency contact numbers.

#### 3.4.4 PARTICIPANTS

- Railway Departments: Public Relations, Public Works, Real Estate, Engineering, Police Services
- Crossing Owners/Users
- Ministries of Transportation
- Emergency Services
- Media Outlets

#### 3.4.5 BENEFITS

- Crossing users (as well as potential crossing users) better educated in the proper use of railway crossings and the risks involved.
- A “ground floor” approach to railway crossing use education.

#### 3.4.6 COSTS

A high-level estimate of the implementation costs for Tasks 1,2, and 3 of this project is \$150,000. Without knowing the scope and degree of proliferation desired, it is difficult to price Task 4. There could be significant costs associated with printing and distributing the information packages, depending on the approach taken. The cost estimate does not include the costs to the railways or other agencies for their participation or the costs of any hardware or equipment that might be required.

#### 3.4.7 POTENTIAL BARRIERS

As with most education and awareness programmes, the success of this project will depend on obtaining the full participation of all parties involved, particularly the public and Ministries of Transportation. It will also be a challenge to see that the information reaches its target audience.

There is also a substantial financial component to this project that could be pushed even higher depending on the extent of Task 4.

## 4. DEPLOYMENT

The recommended course of action for deployment of the strategies and projects described in Sections 2 and 3, respectively, is as follows:

- Initiate the short-term risk mitigation strategies immediately; the strategies could be conducted in parallel; and
- Use the project profiles to secure funding and resources. There are no real prerequisites for any of the proposed projects; however, some synergies might be realized through strategic prioritization of the proposed projects.

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**Provincial Railway  
Technical Standards**

Section: **STANDARDS**

Subject: **PRIVATE CROSSINGS**

**GENERAL:**

Private crossings provide access to industrial sites, private properties or other areas not open to the public, or provide grade level crossings of tracks within such sites.

Responsibilities for design, construction and maintenance of private crossings are to be delegated by private agreement between the railway and property owner.

Design and maintenance must, at a minimum, be to the standards described in this section.

**RTS 2003.1 CROSSING ATTRIBUTES**

- CROSSING SURFACE:**
- Flangeway Width: Minimum: 65 mm  
Maximum: 100 mm
  - Flangeway Depth: Minimum: 50 mm  
Maximum: Top of crosstie
  - Thickness: Dependant on material and attachment method
  - Wear Tolerance: Top of rail to top of surface: ± 50 mm
  - Performance Requirements:
    1. Surfacing to be installed level with top of rails.
    2. Flangeway must be maintained and gauge side of rail protected at all times.
    3. Surfacing material to be selected to provide stability and wear resistance.
    4. Crossing surfacing must provide riding surface for crossing vehicles, but need not provide continuous plane across crossing.
    5. Non-standard crossing surfaces may be utilized with agreement of property owner and written approval of railway inspector.

- CROSSING WIDTH:**
1. Crossings surfaces shall be constructed to a width as agreed to, in a written agreement, between the railway and the property owner.
  2. All such agreements as referred to above, and any changes/modifications made thereto, must be copied to the department.



**Provincial Railway  
Technical Standards**

Section:

**STANDARDS**

Subject:

**PRIVATE CROSSINGS**

**APPROACHES:**

1. Approaches are to be constructed and maintained by the property owner.
2. Gradient approaching and leaving a crossing shall be at the discretion of the property owner. Gradient shall not be so steep as to pose risk of equipment hanging up on track or causing damage to track.
3. Crossing shall be level across the track.
4. Approaches shall have provisions to allow free drainage or passage of water from one side of the approach to the other side.
5. Any damage to the track, rail bed or railway property during or after installation of the crossing approach is the responsibility of the property owner.

**2003.2 AGREEMENTS**

**MAINTENANCE:**

1. Crossings shall be maintained in accordance with the standards set out herein and with any other requirements specifically defined in the crossing agreement between the railway and the property owner.
2. All such crossing agreements and any changes/modifications made thereto, must be copied to the department.
3. Costs and labour for maintenance and installation of crossings shall be determined in accordance with the crossing agreement.

**2003.3 SIGNAGE**

**DISCRETIONARY  
SIGNAGE:**

1. Discretionary signage may be added to the SRCS post and/or the AWS post as appropriate upon approval by a railway inspector.
2. Discretionary signage may be ordered installed by the railway inspector where required.
3. All discretionary signage must be listed in this section or adhere to standard design and materials as listed below.
4. At no time shall any equipment, sign, fence or permanent or temporary structure be placed within the clearance box of the railway track without the written consent of the railway.

Date

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Page

2 of 3





**Provincial Railway  
Technical Standards**

Section: **STANDARDS**

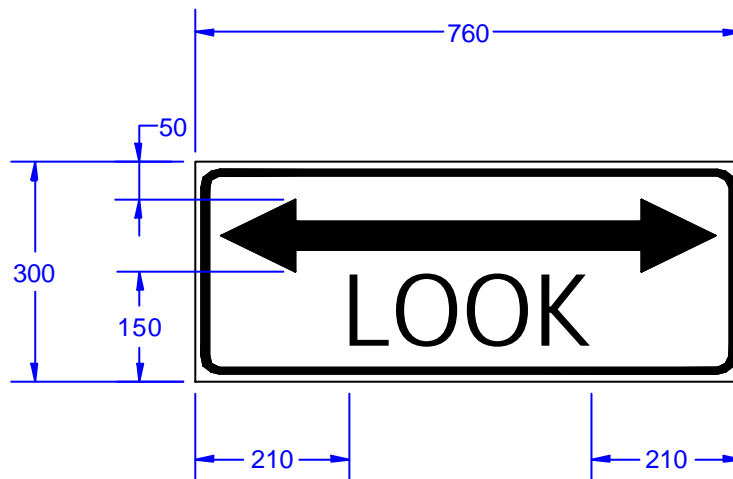
Subject: **PRIVATE CROSSINGS**

**LOOK SIGN**

Look sign is installed directly below the SRCS (or stop sign where appropriate) to increase driver attention to the need to look in both directions for oncoming train traffic.

Look signs are installed where, in the opinion of a railway inspector, additional caution is required by traffic due to partially obscured sightlines (due to topography, structures or vegetation) or driver attention may be distracted or drawn away from the crossing.

Look signs are to be installed only at the discretion of a railway inspector, however road authorities or railways may request a recommendation from an inspector.



All dimensions in millimetres

**BUMP AHEAD**

Bump ahead sign is installed below AWS sign to warn of rough crossing surface. This sign should be temporary until the rough crossing surface is repaired.

**WHISTLE POSTS :**

1. Whistle posts are to be placed at a distance from the crossing that provides 20 seconds advance warning to motorists prior to the train reaching the crossing.
2. Whistle posts in place prior to these guidelines must be relocated to ensure the correct warning time is provided to road traffic approaching grade crossings unless otherwise temporarily approved by a railway inspector.
3. Whistle boards are to be installed adjacent to the rail track outside of the clearance box, but clearly visible to the operating personnel.



## **Appendix A.13**

### **UNITED KINGDOM: Level Crossing to Which the Public Have Access – Guidance on Legislation and Enforcement RGD-2005-03**



**LEVEL CROSSINGS TO WHICH THE PUBLIC HAVE ACCESS –  
GUIDANCE ON LEGISLATION AND ENFORCEMENT**

<b>Open Government Status</b>		Fully Open	
<b>Date of issue/last review</b>	09/01/2006	<b>Date of next review</b>	23/05/2009
<b>RGD postholder/owner</b>		Topic Strategist - Level Crossings:	
<b>National Team (where appropriate)</b>		Level Crossing NET	
<b>RGD cleared by</b>			
<b>RGD type</b>		Policy_____ <input type="checkbox"/> Information_____ <input checked="" type="checkbox"/> Procedure_____ <input type="checkbox"/>	
<b>Target audience</b>		HMRI_____ <input checked="" type="checkbox"/> Policy_____ <input type="checkbox"/> Inspectors_____ <input checked="" type="checkbox"/> Admin_____ <input type="checkbox"/>	
<b>Assign to block</b>		Process/New Legislation_____ <input checked="" type="checkbox"/> Topic/Technical_____ <input type="checkbox"/> Stakeholder Management_____ <input type="checkbox"/> Legal_____ <input type="checkbox"/> Business Support/Transition___ <input type="checkbox"/>	
<b>Keywords</b>	LEVEL CROSSINGS; PUBLIC ACCESS; STANDARDS; ENFORCEMENT		
<b>Summary</b>	This Rail Guidance Document (RGD), gives guidance on the health and safety legislation governing level crossings to which the public has access and gives advice to Inspectors on the approach to be adopted when considering enforcement action.		

## Detail

1 The purpose of this RGD is to give guidance on the appropriate legislation to be used when enforcing physical standards at level crossings in England and Wales. Similar advice may be appropriate for level crossings in Scotland, but different legal provisions may apply. Enforcement for crossing misuse is dealt with in RGD-2004-08.

2 Level crossings currently present the largest source of train accident risk. There are some 7,800 railway level crossings on the mainline railway and a further 1,000 or so on heritage railways and in docks and other industrial premises.

3 Definition of 'crossing operator' – The crossing operator referred to in this RGD is the company that manages the railway. In relation to the Level Crossings Act 1983 (LCA) (as amended) it is defined as the organisation responsible for maintenance of the permanent way at the crossing. In most cases on the national network this will be the infrastructure controller, Network Rail, although in some cases such as freight only lines it may be a train operator such as EWS.

### LEVEL CROSSING TYPES AND STATUS

4 Historically crossings have been categorised as public or private; this status is fundamental to the ways in which protection methods are specified and provided.

5 **Public crossings** are either vehicular, bridleway, or footpath crossings; the crossing operator has a duty to ensure that the crossing is properly maintained, safe and suitable for use. Public level crossings are normally authorised under an Act of Parliament, Consent, or Light Railway Order. [Not to be confused with Level Crossing Orders (made under the LCA) which only specify or modify protection arrangements].

6 **Private crossings** are usually vehicular crossings but can be footpath or bridleway crossings. The crossing operator has a duty to provide certain protective facilities but there is a greater responsibility on the authorised user to ensure the crossing is used safely, for example obeying any warning signs, closing the gates, or using the telephone (if one is provided) before crossing.

7 **Crossings to which the public have access.** Private crossings may become 'crossings to which the public have access' due to circumstances such as changes in land use, or adoption of private roads by local authorities. In these circumstances the protection methods may have to be reviewed.

### **Public vehicular crossings**

8 "Public carriage road" level crossings were created and identified by name in the original Act of Parliament, which authorised the construction of the railway. The relevant Act normally incorporates section 17 of the

Railways Clauses Consolidation Act 1845. Some crossings may have been authorised under subsequent Railway Acts, for example where a new road was required to cross an existing railway. The construction of new crossings may be authorised under an Order made under the Transport and Works Act 1992 (section 1).

### **Public bridleway and footpath crossings**

9 These crossings are not specifically identified by name in the original Act authorising the construction of the railway, but have been authorised using alternative powers such as those in s46 of the Railways Clauses Consolidation Act 1845 for highways **other than** public carriage roads.

### **Private crossings**

10 Private crossings were installed when the railway was built, for the benefit of farmers and other individuals whose land was divided by the railway. These are either:

**Accommodation level crossings** built to let landowners gain access to their land when it was divided by the railway; or

**Occupation level crossings** built to access private dwellings, farm buildings etc, when a private access ('occupation') road was crossed by the railway.

11 Inspectors should be aware that some private level crossings with limited protection are being used by members of the public as a result of changes in land use or by the public gaining access to the countryside. The crossing operator should be monitoring these situations and understand the type (vehicular or pedestrian) and amount of additional usage. As an independent regulator it is HMRI's responsibility to ensure that the crossing operator controls the risks on the infrastructure. In such situations the crossing operator should risk assess the crossing and ensure that there is adequate protection for the type and level of usage or move to close or secure the crossing to prevent additional use.

### **Combined crossings**

12 There may be locations where more than one crossing type exists side by side, for example a private road and adjacent public footpath. These should be treated as two separate crossings with their own safety arrangements.

## **PROTECTION ARRANGEMENTS**

### **Public vehicular crossings**

13 Generally these crossings will have a Level Crossing Act Order if they have been upgraded or changed since 1983. Crossings built under the original railway Act had to have "Good and sufficient gates and

employ a proper person to operate them” with the crossing either open to rail or to road. Most of these have been upgraded and those that remain are generally distinguished by the presence of mechanical gates and a signal box overlooking the crossing. When the protection measures at a crossing require to be upgraded the provisions of the original Act are modified by a level crossing Order.<sup>1</sup>

14 A small but significant number of crossings are covered by ‘consents’ made under various pieces of other Railway Legislation, such as Light Railway Orders, or consents under the Road and Rail Traffic Act 1933. Inspectors should be aware that many of these look very similar to a Level Crossing Order, but are not enforceable.

15 The relevant Order for the crossing will specify the signs, signals, road markings and method of operation of the crossing.

### **Public bridleway and footpath crossings**

16 Generally these crossings may have a Level Crossing Act Order if it they have been upgraded or changed since 1983.

17 Gates or stiles normally protect these crossings. Gates should be self-closing without any latches and should open away from the railway. It is essential to provide the same facility at each side of the crossing (i.e. gates and stiles are not intermixed at one crossing, and both gates must be of the same width) so that users do not become trapped on the crossing. Miniature red and green warning lights may be provided where sighting distance is limited and, as a last resort, whistle boards provided to give further warning of an approaching train.

18 It should be possible for horse riders to open gates on bridleway crossings without dismounting, unless there is a risk of contact with overhead power lines.

### **Private crossings**

19 These crossings generally do not have Level Crossing Act Orders; they are provided with signs and basic protective measures, usually hand operated gates or barriers and sometimes telephones. Their safe operation relies on the user operating them properly. Signs are specified under the Private Crossings (Signs and Barriers) Regulations 1996. As with footpath crossings, red and green warning lights or whistle boards are sometimes used to reinforce the basic protection measures provided.

### **Guidance on protection arrangements**

20 Full guidance on protection arrangements is detailed in HS(G)153/6 Railway Safety Principals & Guidance (RSPG) part 2 section E. However, the requirements of the RSPG are not retrospective and

protection arrangements that were specified prior to 1996 may not comply with the current guidance.

## ENFORCEMENT

### **Public crossings - Securing changes to existing protective arrangements or requiring new protective arrangements**

21 In this situation Inspectors should use the LCA 1983, as the requirements are more specific than the general requirements of HSWA.

22 A Notice can be issued requiring the crossing operator to seek a new level crossing order or requiring changes to an existing order. Such a Notice would be issued under the LCA 1983. Inspectors should consult the Level Crossing National Expertise Team ([see paragraph 32](#)) if they are considering a formal enforcement notice in these circumstances.

### **Public Crossings - Failing to maintain existing protective arrangements**

23 Protective arrangements are normally specified in a LCA Order. It is a requirement under Reg 3(1) of the Level Crossing Regulations 1997 to comply with the requirements of a Level Crossing Order and failure to do so constitutes an offence. An Improvement Notice (under HSWA) can be used where appropriate to require compliance with a LCA Order (an example of an IN is attached as [appendix 1](#)). Note that the requirements of an Order are absolute and not subject to a “reasonable practicability” test unless explicitly permitted in the Order.

24 Where deficiencies in the protection arrangements are noted EMM should be applied to determine the risk gap. A list of matters to consider is given in [appendix 2](#). Serious deficiencies to the decking or in the boom’s mechanism may warrant a notice. The method of operation of the crossing will normally also be a relevant matter.

25 Simple non-compliance with a Level Crossing Order such as incorrect signage should be brought to the attention of the crossing operator and confirmed in writing. It may be worthwhile reminding crossing operators that motorists might have a technical defence of improper use of the crossing if they can show that incorrect or deficient signage was provided at the crossing. It is the responsibility of the crossing operator in the first instance to liaise with the Highway Authority to rectify any problems with signs.

26 Disputes involving the Highway Authority regarding the maintenance of signage, cutting back of vegetation etc. should be discussed with both the crossing operator and the Highway Authority.

### **Non-vehicular crossings**



27 These are mainly footpath crossings. The HSWA will be the primary legislation to apply at such crossings since the majority of issues likely to arise are concerned with vegetation clearance, decking and sighting times, which are not generally covered by other legislation.

### **Private crossings**

28 The crossing operator has a duty to provide a safe and suitable crossing. Subsequent changes in use may require increased protection arrangements, however there may be difficulties in actioning and funding these as most crossing operators believe they have limited liability under the original railway Act. This can lead to disputes and delays and Inspectors may have to intervene to ensure that safety is maintained, (e.g. by prohibiting increased use until suitable protective arrangements are in place). Any changes introduced by the crossing operator (e.g. increased speeds over a crossing) would make the crossing operator liable for upgrading the crossing.

29 A common failing by users of private crossings is to leave gates open. This is an offence under the Railways Clauses Consolidation Act 1845 and Transport and Works Act 1992 but is not enforceable by HSE. Inspectors should liaise with the BTP or other relevant police forces over the investigation of such offences.

30 Where the user is a duty holder under the HSWA, (e.g. a farmer), and the crossing is used in the course of the conduct of a business, or employment, inspectors should consider enforcement against the mis-user under S3 of HASWA, (see RGD 08-2004-08 for more information and liaison arrangements)

### **FURTHER INFORMATION AND CONTACT**

31 Inspectors will come across a range of level crossings made under different legislation in the course of their work. Guidance on the category of individual crossings can be obtained from the HSE Level Crossing Database, (currently under development), or from the crossing operator directly.

32 For information on legal operational matters arising from this RGD please contact S Johnston or M Whitham (Scotland Team) or for technical matters John Tilly, Level Crossing NET.

<sup>1</sup> Historically this was done by using powers in various pieces of legislation but is now done by making an Order under the LCA that specifies the protection arrangements for the individual crossing

Earlier Orders made under s66 of the British Transport Commission Act 1957 and under s124 of the Transport Act 1968 are effectively considered as Orders made under s10(A) of the LCA 1983.

**APPENDIX 1**

# **Improvement Notice**

---

**To:** Name Network Rail Infrastructure Ltd  
 Address 40 Melton Street  
 s London NW1 2EE  
 Trading Network Rail  
 as  
 Inspector's full name I, \*\*\*\*\*  
 Inspector's official designation one of Her Majesty's Inspectors of Health and Safety, being an Inspector appointed by an instrument in writing made pursuant to section 19 of the said Act and entitled to issue this Notice  
 Official address of Rose Court, 2 Southwark Bridge, London SE1 9HS  
 Telephone number 01234 56780

Location of premises or place of activity hereby give you notice that I am of the opinion that at Summer House Automatic Half Barrier Level Crossing, Lincolnshire

you, as The level crossing operator  
**are contravening the following statutory provisions :**  
 Regulation 3(1) of the Level Crossing Regulations 1997  
 The British Railways (Summer House Level Crossing) Order 1989  
 The reasons for my said opinion are:  
 That you are failing to comply with the requirements of the level crossing Order

Date for compliance **and I hereby require you to remedy the said 30th April 2004**  
**contraventions**  
**or, as the case may be, the matters**  
**occasioning them, by**  
 [SM1]**and I direct** that the measures specified in the Schedule which forms part of this Notice shall be taken to remedy the said contraventions or matters

Signature ..... Date  
 .....  
 [SM2]An Improvement Notice is also being served on

SEE NOTES  
 OVERLEAF or  
 ATTACHED  
 Page 8 of 10

The said contraventions shall be remedied by:

1. Repair or replacement of the crossing surface between both Stop lines so as to create 'a good and even surface' removing all tripping hazards as required by item 22 of Schedule 2, Part II of the Level Crossing Order.
2. Applying White Lining, and fitting reflective road studs, in accordance with the Traffic Signs Regulations and General Directions 2002 as required by items 11, 12, 13 and 14 of Schedule 2, Part I of the Level Crossing Order.
3. Applying Yellow box marking, in accordance with the Traffic Signs Regulations and General Directions 2002 as required by item 15 of Schedule 2, Part I of the Level Crossing Order.
4. Repair or replacement of the cattle-cum-trespass guards as required by item 20 of Schedule 2, Part I of the Level Crossing Order
5. Review of the system of inspection, maintenance and repair of level crossing defects and implementation of a time bound action plan to develop a system to ensure that the requirements of the Level Crossing Order are complied with.

**APPENDIX 2**

When inspecting crossings, the critical physical standards to consider are as follows:

- a) The condition and safety of the decking system over the crossing - both from the car driver and pedestrian viewpoint. Loose or poorly fitted decking is a risk to users and could also derail a train. Where proprietary (removable unit type) decking is used, end restraints to prevent the units moving along the track are an important safety feature.
- b) At automatic public vehicular level crossings, the vertical road profile - this should be designed and maintained to prevent grounding of long low road vehicles.
- c) Vegetation clearance - to ensure that signs and warning equipment are visible and not obscured, and at footpath, bridleway and user-worked crossings the sighting distances for trains are maintained. Vegetation clearance on the highway is the responsibility of the Highway Authority, but the crossing operator may need to raise this with the Highway Authority.
- d) Cattle/trespass guards –should be provided where livestock is regularly moved over the crossing, or where there is a significant risk of trespass by pedestrians. Guards should be provided on all crossings where the railway is electrified by a live conductor rail and be accompanied by a gap in the conductor rail. Where fitted, guards should be in sound condition with no missing or loose rails.
- e) All road markings such as white line/yellow box markings/ reflective studs detailed in the crossing Order are the responsibility of the crossing operator (including the centre of carriageway markings on the crossing approach). The use of rubber surfaced crossings has resulted in the need to renew road markings on crossings more frequently.
- f) Signage detailed in the crossing Order is the responsibility of the crossing operator. Other signage (usually warning signage) is the responsibility of the Highway Authority

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[SM2>Delete or strike-through these four lines if not required



**LEVEL CROSSINGS TO WHICH THE PUBLIC HAVE ACCESS –  
GUIDANCE ON LEGISLATION AND ENFORCEMENT**

<b>Open Government Status</b>		Fully Open	
<b>Date of issue/last review</b>	09/01/2006	<b>Date of next review</b>	23/05/2009
<b>RGD postholder/owner</b>		Topic Strategist - Level Crossings: D. Whitmarsh	
<b>National Team (where appropriate)</b>		Level Crossing NET	
<b>RGD cleared by</b>			
<b>RGD type</b>		Policy_____ <input type="checkbox"/> Information_____ <input checked="" type="checkbox"/> Procedure_____ <input type="checkbox"/>	
<b>Target audience</b>		HMRI_____ <input checked="" type="checkbox"/> Policy_____ <input type="checkbox"/> Inspectors_____ <input checked="" type="checkbox"/> Admin_____ <input type="checkbox"/>	
<b>Assign to block</b>		Process/New Legislation_____ <input checked="" type="checkbox"/> Topic/Technical_____ <input type="checkbox"/> Stakeholder Management_____ <input type="checkbox"/> Legal_____ <input type="checkbox"/> Business Support/Transition___ <input type="checkbox"/>	
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16 Generally these crossings may have a Level Crossing Act Order if it they have been upgraded or changed since 1983.

17 Gates or stiles normally protect these crossings. Gates should be self-closing without any latches and should open away from the railway. It is essential to provide the same facility at each side of the crossing (i.e. gates and stiles are not intermixed at one crossing, and both gates must be of the same width) so that users do not become trapped on the crossing. Miniature red and green warning lights may be provided where sighting distance is limited and, as a last resort, whistle boards provided to give further warning of an approaching train.

18 It should be possible for horse riders to open gates on bridleway crossings without dismounting, unless there is a risk of contact with overhead power lines.

### **Private crossings**

19 These crossings generally do not have Level Crossing Act Orders; they are provided with signs and basic protective measures, usually hand operated gates or barriers and sometimes telephones. Their safe operation relies on the user operating them properly. Signs are specified under the Private Crossings (Signs and Barriers) Regulations 1996. As with footpath crossings, red and green warning lights or whistle boards are sometimes used to reinforce the basic protection measures provided.

### **Guidance on protection arrangements**

20 Full guidance on protection arrangements is detailed in HS(G)153/6 Railway Safety Principals & Guidance (RSPG) part 2 section E. However the requirements of the RSPG are not retrospective and

protection arrangements that were specified prior to 1996 may not comply with the current guidance.

## ENFORCEMENT

### **Public crossings - Securing changes to existing protective arrangements or requiring new protective arrangements**

21 In this situation Inspectors should use the LCA 1983, as the requirements are more specific than the general requirements of HSWA.

22 A Notice can be issued requiring the crossing operator to seek a new level crossing order or requiring changes to an existing order. Such a Notice would be issued under the LCA 1983. Inspectors should consult the Level Crossing National Expertise Team ([see paragraph 32](#)) if they are considering a formal enforcement notice in these circumstances.

### **Public Crossings - Failing to maintain existing protective arrangements**

23 Protective arrangements are normally specified in a LCA Order. It is a requirement under Reg 3(1) of the Level Crossing Regulations 1997 to comply with the requirements of a Level Crossing Order and failure to do so constitutes an offence. An Improvement Notice (under HSWA) can be used where appropriate to require compliance with a LCA Order (an example of an IN is attached as [appendix 1](#)). Note that the requirements of an Order are absolute and not subject to a “reasonable practicability” test unless explicitly permitted in the Order.

24 Where deficiencies in the protection arrangements are noted EMM should be applied to determine the risk gap. A list of matters to consider is given in [appendix 2](#). Serious deficiencies to the decking or in the boom’s mechanism may warrant a notice. The method of operation of the crossing will normally also be a relevant matter.

25 Simple non-compliance with a Level Crossing Order such as incorrect signage should be brought to the attention of the crossing operator and confirmed in writing. It may be worthwhile reminding crossing operators that motorists might have a technical defence of improper use of the crossing if they can show that incorrect or deficient signage was provided at the crossing. It is the responsibility of the crossing operator in the first instance to liaise with the Highway Authority to rectify any problems with signs.

26 Disputes involving the Highway Authority regarding the maintenance of signage, cutting back of vegetation etc. should be discussed with both the crossing operator and the Highway Authority.

### **Non-vehicular crossings**

27 These are mainly footpath crossings. The HSWA will be the primary legislation to apply at such crossings since the majority of issues likely to arise are concerned with vegetation clearance, decking and sighting times, which are not generally covered by other legislation.

### **Private crossings**

28 The crossing operator has a duty to provide a safe and suitable crossing. Subsequent changes in use may require increased protection arrangements, however there may be difficulties in actioning and funding these as most crossing operators believe they have limited liability under the original railway Act. This can lead to disputes and delays and Inspectors may have to intervene to ensure that safety is maintained, (e.g. by prohibiting increased use until suitable protective arrangements are in place). Any changes introduced by the crossing operator (e.g. increased speeds over a crossing) would make the crossing operator liable for upgrading the crossing.

29 A common failing by users of private crossings is to leave gates open. This is an offence under the Railways Clauses Consolidation Act 1845 and Transport and Works Act 1992 but is not enforceable by HSE. Inspectors should liaise with the BTP or other relevant police forces over the investigation of such offences.

30 Where the user is a duty holder under the HSWA, (e.g. a farmer), and the crossing is used in the course of the conduct of a business, or employment, inspectors should consider enforcement against the mis-user under S3 of HASWA, (see RGD 08-2004-08 for more information and liaison arrangements)

### **FURTHER INFORMATION AND CONTACT**

31 Inspectors will come across a range of level crossings made under different legislation in the course of their work. Guidance on the category of individual crossings can be obtained from the HSE Level Crossing Database, (currently under development), or from the crossing operator directly.

32 For information on legal operational matters arising from this RGD please contact S Johnston or M Whitham (Scotland Team) or for technical matters John Tilly, Level Crossing NET.

<sup>1</sup> Historically this was done by using powers in various pieces of legislation but is now done by making an Order under the LCA that specifies the protection arrangements for the individual crossing

Earlier Orders made under s66 of the British Transport Commission Act 1957 and under s124 of the Transport Act 1968 are effectively considered as Orders made under s10(A) of the LCA 1983.

## APPENDIX 1

# Improvement Notice

---

**To:** Name Network Rail Infrastructure Ltd  
 Address 40 Melton Street  
 s London NW1 2EE  
 Trading Network Rail  
 as  
 Inspector's full name I, \*\*\*\*\*  
 Inspector's official designation one of Her Majesty's Inspectors of Health and Safety, being an Inspector appointed by an instrument in writing made pursuant to section 19 of the said Act and entitled to issue this Notice  
 Official address of Rose Court, 2 Southwark Bridge, London SE1 9HS  
 Telephone number 01234 56780

Location of premises or place of activity hereby give you notice that I am of the opinion that at Summer House Automatic Half Barrier Level Crossing, Lincolnshire

you, as The level crossing operator  
**are contravening the following statutory provisions :**  
 Regulation 3(1) of the Level Crossing Regulations 1997  
 The British Railways (Summer House Level Crossing) Order 1989  
 The reasons for my said opinion are:  
 That you are failing to comply with the requirements of the level crossing Order

Date for compliance **and I hereby require you to remedy the said 30th April 2004**  
**contraventions**  
**or, as the case may be, the matters**  
**occasioning them, by**  
 [SM1]**and I direct** that the measures specified in the Schedule which forms part of this Notice shall be taken to remedy the said contraventions or matters

Signature ..... Date  
 .....  
 [SM2]An Improvement Notice is also being served on

SEE NOTES  
 OVERLEAF or  
 ATTACHED  
 Page 8 of 10

The said contraventions shall be remedied by:

1. Repair or replacement of the crossing surface between both Stop lines so as to create 'a good and even surface' removing all tripping hazards as required by item 22 of Schedule 2, Part II of the Level Crossing Order.
2. Applying White Lining, and fitting reflective road studs, in accordance with the Traffic Signs Regulations and General Directions 2002 as required by items 11, 12, 13 and 14 of Schedule 2, Part I of the Level Crossing Order.
3. Applying Yellow box marking, in accordance with the Traffic Signs Regulations and General Directions 2002 as required by item 15 of Schedule 2, Part I of the Level Crossing Order.
4. Repair or replacement of the cattle-cum-trespass guards as required by item 20 of Schedule 2, Part I of the Level Crossing Order
5. Review of the system of inspection, maintenance and repair of level crossing defects and implementation of a time bound action plan to develop a system to ensure that the requirements of the Level Crossing Order are complied with.

**APPENDIX 2**

When inspecting crossings, the critical physical standards to consider are as follows:

- a) The condition and safety of the decking system over the crossing - both from the car driver and pedestrian viewpoint. Loose or poorly fitted decking is a risk to users and could also derail a train. Where proprietary (removable unit type) decking is used, end restraints to prevent the units moving along the track are an important safety feature.
- b) At automatic public vehicular level crossings, the vertical road profile - this should be designed and maintained to prevent grounding of long low road vehicles.
- c) Vegetation clearance - to ensure that signs and warning equipment are visible and not obscured, and at footpath, bridleway and user-worked crossings the sighting distances for trains are maintained. Vegetation clearance on the highway is the responsibility of the Highway Authority, but the crossing operator may need to raise this with the Highway Authority.
- d) Cattle/trespass guards –should be provided where livestock is regularly moved over the crossing, or where there is a significant risk of trespass by pedestrians. Guards should be provided on all crossings where the railway is electrified by a live conductor rail and be accompanied by a gap in the conductor rail. Where fitted, guards should be in sound condition with no missing or loose rails.
- e) All road markings such as white line/yellow box markings/ reflective studs detailed in the crossing Order are the responsibility of the crossing operator (including the centre of carriageway markings on the crossing approach). The use of rubber surfaced crossings has resulted in the need to renew road markings on crossings more frequently.
- f) Signage detailed in the crossing Order is the responsibility of the crossing operator. Other signage (usually warning signage) is the responsibility of the Highway Authority



# User Worked and Footpath Level Crossing Research

## Railway Safety's response to the Arthur D Little Research Report

Summary Report

September 2002



**RAILWAY SAFETY**

Working for a safer railway

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The picture on the cover was reproduced with the kind permission of  
Arthur D Little

## **Railway Safety's response to the report by Arthur D Little entitled 'User Worked and Footpath Level Crossing Risk Review Study'**

### **1. Purpose**

- 1.1. The purpose of this paper is to outline Railway Safety's response to the attached report, and to summarise the actions being taken by Railway Safety.
- 1.2. The report, commissioned by Railway Safety, was prepared by Arthur D Little. The research was designed to explore the hazards and risks at 'passive' level crossings *ie* those at which the person crossing, whether in a vehicle or on foot, is responsible for making the decision to cross. Specifically, it examines the relationship between user perceptions of risk and other locational factors such as sighting times. It goes on to examine and recommend ways of improving risk controls and data collection.
- 1.3. Included is the Executive Summary of the report, plus excerpts covering data collection, an overview of risk factors and scoring, and an explanation of a simulation model developed as part of the research. Some examples of the case studies of level crossings are also included. The full report is available on CD-Rom from Railway Safety.

### **2. Railway Safety's response**

- 2.1. Railway Safety recommends the general adoption of a standardised and enhanced data collection methodology with priority being given to its application, including user interviews, at all crossings with a history of accidents and near misses. The methodology developed by Arthur D Little should form the basis of this as it appears effective in helping to identify the presence of bad actor factors relating to both the crossing environment and user behaviour.
- 2.2. Railway Safety recommends the development of an enhanced and standardised approach to the gathering and recording of evidence as to the factors and underlying causes of accidents and incidents occurring on level crossings. Railway Safety is to identify how Safety Management Information System (SMIS) might be upgraded to support analysis of this data and will consider incorporation of the agreed approach as a mandatory Railway Group Standard requirement.
- 2.3. Railway Safety recommends and will facilitate the further use of the 'risk scoring' method developed by AD Little to support better identification of crossings to which particular attention should be given.

- 2.4. Railway Safety recommends that remedial actions to address sighting time deficiencies are not considered in isolation and are always developed in the context of the development of measures to address the risk factors of 'high' crossing utilisation, 'gates left open' and infrequent trains which appear to have the potential to make a more significant contribution to risk reduction. Railway Safety further recommends that HM Railway Inspectorate always take these dependencies into account should they need to consider enforcement action.
- 2.5. Railway Safety is to commission further research to better understand user perception of risks associated with the use of passive level crossings with particular regard to the factors associated with the work related user, gate abuse and failures to use the telephones where provided.
- 2.6. In light of the outputs of the further research pertaining to user perception of risks Railway Safety will consider further development of the scenario based simulation model.
- 2.7. Railway Safety will commission research to explore the benefits that might be gained from a more general use of train (or wayside) horns on the approach to passive level crossings.
- 2.8. Railway Safety is developing a research proposal for 'low cost' co-acting gates / barriers that would reduce the number of traverses per vehicle traverse at a properly used crossing from five to one.
- 2.9. Railway Safety will solicit views and consider mandating a maximum traffic moment that is acceptable at an unimproved pedestrian or user worked crossing / user worked crossing with telephones.
- 2.10. Railway Safety will continue to work with Railtrack PLC in Railway Administration (known as Railtrack), the Health and Safety Executive and British Transport Police to secure the development of a national level crossing strategy that supports the management of risk at all level crossings to as low as is reasonably practicable through enabling, engineering, education and enforcement activities.
- 2.11. In doing so, Railway Safety will continually champion the importance of railway businesses having 'zero tolerance' of unsafe conditions, unsafe decisions and unsafe acts that have the potential to lead to a catastrophic rail accident that might result from striking a vehicle on a level crossing.
- 2.12. Railway Safety recognises transferable lessons from this work and commends their application to the development of controls at 'active' level crossings.

2.13. Railway Safety will use the outputs of this research to support the development of the Railway Group Safety Plan.

### **3. Contact**

3.1. For a full copy of the report please contact:

**Guy Woodroffe**

**Stakeholder Manager**

**Railway Safety Research Programme**

**020 7904 7971**

**[woodroffeg.railwaysafety@ems.rail.co.uk](mailto:woodroffeg.railwaysafety@ems.rail.co.uk)**

**User Worked and  
Footpath Level  
Crossings: Risk  
Review**



# Executive Summary

## Introduction

Railway Safety commissioned research in March 2000 to explore the hazards and risks at 'passive'<sup>1</sup> level crossings, specifically to examine the relationship between user perception of risk and other locational factors such as traffic moment.

## Aims and Objectives

The overall aim of the study is to facilitate the development of improved risk control strategies at passive level crossings and to inform the development of Railway Group Safety Plan objectives. The study has involved the following key aspects:

- Survey of literature in human behaviour and level crossing risks.
- Identification of hazards at level crossings working with Railtrack Level Crossing Managers.
- A survey of over 300 passive level crossings (approximately 5% of the total network population) involving 121 user interviews, observation of user behaviour, as well as a recording of physical crossing characteristics and the environment in which the crossing is located.
- A comprehensive analysis of accident data, to establish the suitability of current data recording, and to help gain an understanding of the causes of accidents.

## Conclusions

The results of the work provide evidence for the influence of certain 'risk factors', i.e. crossing and user characteristics that influence the risks at passive level crossings. The results also provide recommendations for improving risk controls and data collection.

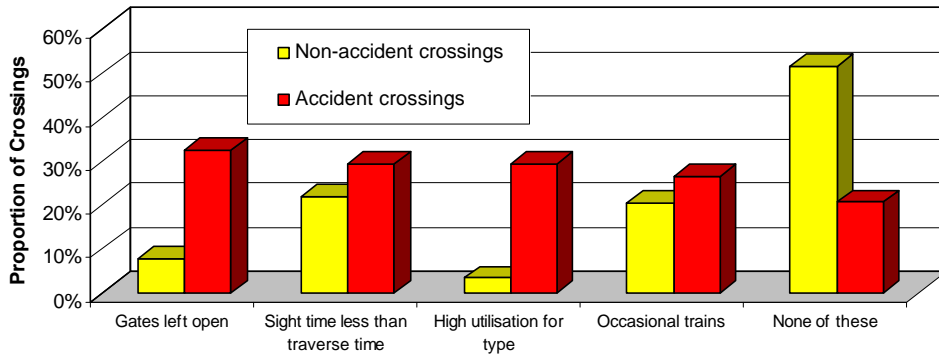
## Risk Factors

Certain crossing and user characteristics recorded in the survey are more prevalent at crossings where accidents have occurred; these are considered to be 'risk factors'. The study reveals that such risk factors can be associated with some 80% of crossings where accidents have occurred, compared with 50% of crossings where no accidents have occurred. Therefore, whilst accidents at passive level crossings are very scattered and rarely repeat at the same location, there are some common characteristics for the locations where accidents do occur, which is encouraging from the perspective of developing effective risk controls. The risk factors are shown in the figure, and described below.

---

<sup>1</sup> 'Passive' crossings are those at which the user is responsible for making the decision to cross (including crossings with telephones which may be used in order to make a more informed decision on whether to cross or not).

**'Risk Factors'**



*Gates left open*



A problem at nearly one-third of crossings surveyed where accidents have occurred, compared with only 8% of crossings with no accident history.

*High crossing utilisation*



A characteristic of nearly one-third of crossings surveyed where accidents have occurred, compared with only 4% of crossings with no accident history.

*Occasional trains*



Occasional trains (two or fewer trains per hour) is a marginally more common characteristic of crossings with accidents than those without accidents (25% versus 20% respectively).

Conversely, the analysis provides little evidence that crossings with poor sight times<sup>2</sup> are associated with the occurrence of accidents. This is counter to the traditional view that providing good sighting at passive level crossings is the most important factor in risk control.

<sup>2</sup> Either sight times that are measured to be less than the nominal traverse time, or there is less than five seconds spare time during which a decision to cross can be made



### ***User perception of risks***

The study highlights the importance of the users' perception of the risk at the level crossing, how this influences their behaviour, and therefore the extent of risk to which they are exposed. The interviews conducted reveal that users generally perceive:

- crossings to be 'dangerous' where there are fast trains and sighting is poor,
- crossings to be 'safe' where there is good sighting, and trains are slow and infrequent.

These perceptions underlie the risk compensation behaviour which explains the weak correlation between poor sight times and occurrence of accidents. Crossing users are aware of poor sight times, and will respond by traversing more rapidly with heightened vigilance. To a lesser extent where trains are infrequent regular users may not regard the risks as so significant, and behave less cautiously.

### ***Vehicles are involved in a proportionally greater number of accidents***

A review of accident statistics reveals that accidents involving vehicles are comparatively more frequent than might be expected from their total exposure in comparison with pedestrian accidents. Whilst the reasons for this are not fully understood, many vehicle accidents can be associated with the abuse of gates and the failure to use telephones where provided. The survey revealed instances of regular users such as farm workers and delivery vehicles deliberately taking 'short-cuts' when working gated crossings.

### ***Current data reporting***

Current data reporting provides neither sufficiently detailed nor consistent data on which to develop a significantly more advanced understanding of the factors which influence the risks at passive level crossings. Recommendations for improved data collection are provided.

## **Recommendations**

Based on the survey and analysis, recommendations are made for improving risk controls, and for improving incident reporting and data collection activities, which in many cases are required in order to gain a better definition of the extent of risks.

Overall, it is recommended that the findings of this study and those of the recently completed review of the application of the automatic crossing risk model are synthesised to ensure that lessons learned are realised across the spectrum of crossings.

When developing new infrastructure risk controls for passive level crossings, care should be taken to avoid lowering the user perception of the risks as this could have a detrimental influence on user behaviour. In other words, providing the user with a false sense that 'risks are low' without actually increasing the protection could lead to an *increase* in accidents.

### ***Risk controls***

- The traffic moment is a key factor and must be monitored closely to ensure that any potential increases in level or type of use are anticipated and appropriate risk controls implemented before incidents occur.
- Drivers of works vehicles need an improved understanding of risks at level crossings which might be achieved through contacting HGV driving schools, delivery depots, etc. In some instances (for example at busy construction sites or during peak harvest times) consideration should be given to mandating crossing wardens as part of the conditions of use.
- At certain crossings where gate abuse is a problem Railtrack should pursue the development of alternative technical solutions such as:
  - Pneumatically or electrically driven barriers that can be operated from a push button (interlocked with the railway).
  - Advanced warning systems using new technologies.
- Crossings that are to be affected by increased train frequencies and/or line speeds should be considered as ‘high risk’ and action taken according to ensure that regular users are made aware of the increasing risk caused by the proposed change in train movements.
- Level crossings on lines with low train frequencies (e.g. less than 2 per hour) should not necessarily be regarded as ‘low risk’. Consideration should be given to sounding the whistle on approach to such crossings.
- To ensure that whistles are sounded consistently by all trains, consideration should be given to development of a device that automatically activates the whistle on approach to crossings.
- Consideration should be given to providing clearly marked decision points where possible, such as painted lines on road surfaces.

### ***Improving data records***

Improved accident data reporting is considered to be essential in gaining a further definition of risk factors, and therefore the development of improved risk controls. We recommend that the following additional data be collected:

- Details of the vehicle or pedestrian involved (reason for use, type of vehicle, etc). It would be particularly useful to record any accidents to vehicle users who were traversing on foot while working the crossing.
- Details of gate abuse.
- Evidence of failure to use the telephone including a regular audit of signallers logs.

- Whether the accident victim was a regular user of the crossing or an unfamiliar user.
- Whether the train involved was scheduled and on time, scheduled but not on time, or unscheduled.
- For vehicle accidents, a record should be made of whether the vehicle was stuck or otherwise stopped on the crossing, making the traverse, or ‘nosing out’, i.e. foul of the line while making a decision on whether to cross.
- A steep fall in occasional crossing use can be anticipated during the current period of restricted access during the ‘Foot and Mouth’ epidemic. A special data collection and analysis effort should be mounted to take analytical benefit from this temporary reduction in crossing usage.

## Data Collection

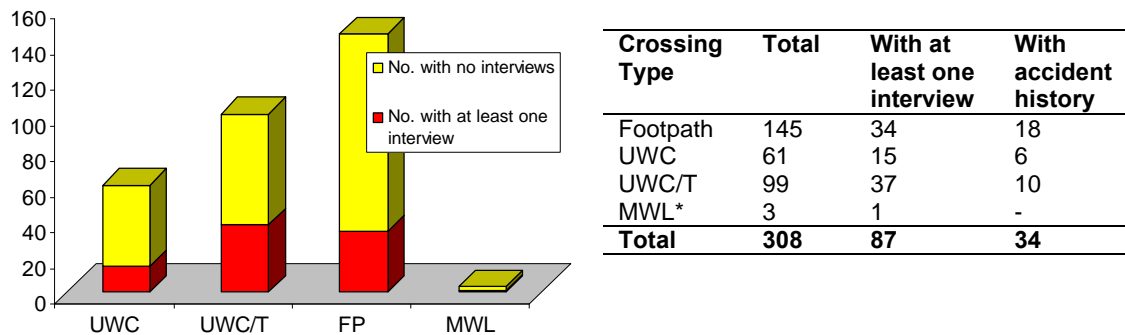
This section provides an overview of the data collection activities.

The survey work was a core activity of the project with the aim of collecting crossing and user data for a sample of passive level crossings. The process comprised two main elements:

- A survey of the crossing itself, including physical characteristics, and notes regarding the environment of the crossing (e.g. situation relative to nearby residential and commercial areas).
- Behaviour of level crossing users, based on interviews and observation. As expected, it was not possible to carry out interviews at the majority of the crossings surveyed as many of these crossings are, by their very nature, not heavily used. However, wherever possible, interviews have been conducted and recorded. Interviews focused on the users':
  - Awareness of the crossing features such as signs.
  - Perceptions of risks (e.g. “Dangerous”, “Like crossing the road”, “Safe”)
  - Opinions as to how the crossing might be improved.
  - Knowledge of other users and accidents / near misses.

308 passive level crossings have been surveyed across the seven Railtrack Zones, (Figure 1). The surveys were conducted over a period of approximately six months (May to October 2000) with comparatively full foliage in situ.

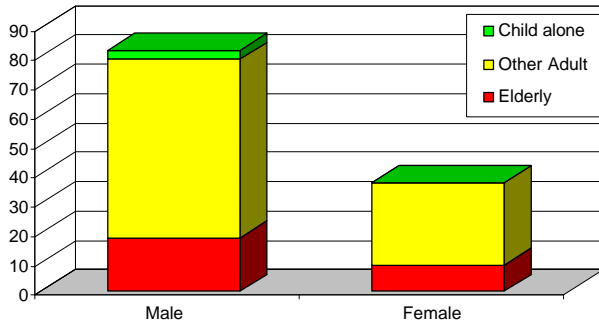
**Figure 1 Crossings Surveyed by Type**



Note: MWL were included in the surveys so as to identify any differences in use and user behaviour than at other passive crossings

A total of 121 interviews were conducted at 87 crossings. Most of the interviews were conducted after the individual had used the crossing, allowing observation of use, although to extend the interview sample as far as possible some interviews were held with users away from the crossing (for example at their homes). The distribution of interviews conducted by age group and gender (Figure 2) shows a bias towards males and adults (adult males representing about 50% of the interviewee sample).

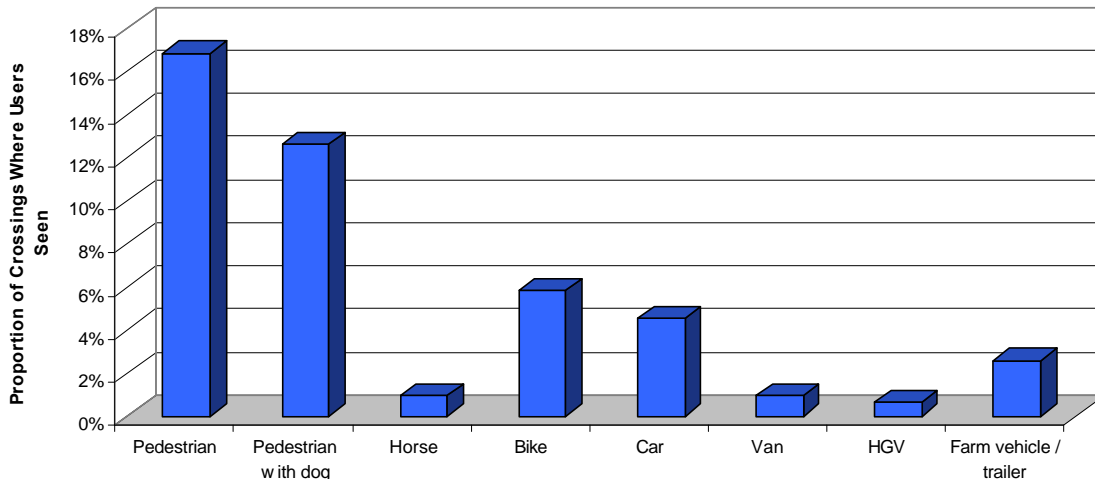
**Figure 2 Summary of Interviews**



	Total	Elderly	Other Adult	Child alone
Male	84	18	61	3
Female	37	9	28	0
<b>Total</b>	<b>121</b>	<b>27</b>	<b>89</b>	<b>3</b>

Users were seen at 96, just under a third, of the 308 crossings surveyed. Figure 3 shows the proportion of crossings where users were seen during the survey. By far the most common users seen were pedestrians (seen at 16% of crossings) closely followed by dog walkers (12%). Vehicles were much less common, particularly ‘work vehicles’ such as tractors, vans and HGVs, which were seen at only about 5% of the crossings surveyed.

**Figure 3 Proportion of Crossings Surveyed Where Users Seen**



Of the 121 users interviewed over half were using the crossing for recreational purposes, with the remainder fairly evenly split between using for work, travelling to or from work, or to and from the shops (Figure 4).

Over half of users used the crossing at least daily, with a further 37% using the crossing at least weekly (Figure 5).

Figure 4 Interview Sample: Reasons for Use

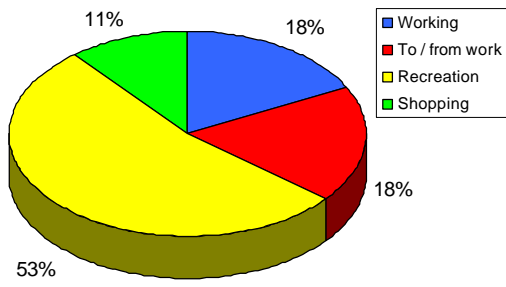
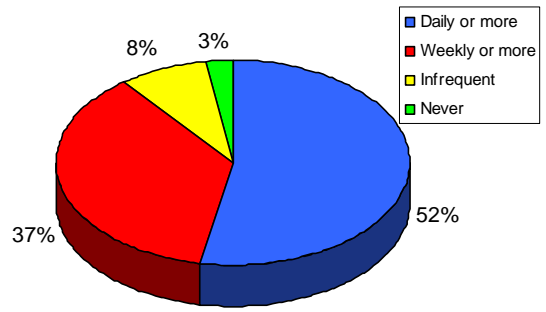


Figure 5 Interview Sample: Familiarity



## Risk Factors

This exert identifies factors that influence the risk at passive level crossings, based on the results of the survey, and available accident data for those crossings.

In addition, it discusses how different factors associated with crossing features and user characteristics may be combined to produce risk scenarios as the basis for a simulation model of crossing accident opportunities.

### Overview

An overview of the influence of readily identifiable risk factors on the occurrence of accidents is shown in Figure 6 which compares the distribution of risk factors at crossings surveyed with no history of accidents, with those where accidents have occurred.

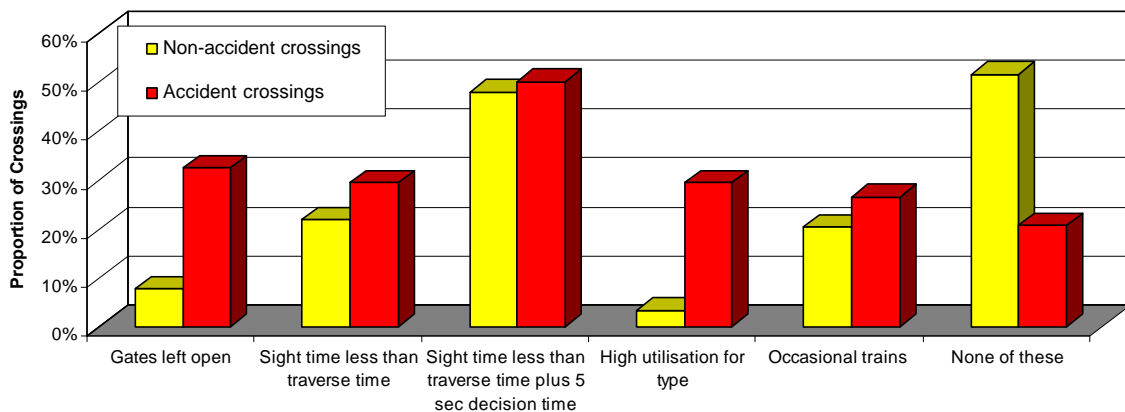
Overall, it is shown that 80% of the crossings surveyed where accidents have occurred can be associated with at least one risk factor. By contrast, about half of those crossings surveyed where no accidents have been recorded have any of these risk factors.

In summary, the analysis has identified the following risk factors:

- “High crossing utilisation” appears to be a much more dominant factor at crossings where there have been accidents than crossings where there is no record of accidents (31% versus 4% respectively).
- Similarly “Gates left open” is a characteristic of 32% of crossings surveyed where accidents have been recorded, compared with 8% of crossings with no accident history.
- “Occasional trains”. There also appears to be some evidence that occasional trains (i.e. about two or fewer trains per hour) are a factor in accidents, with 25% of the accident crossings versus 20% of the sample as a whole having two trains an hour or fewer. Whilst initially the evidence does not appear to be that strong, it must be remembered that intuitively, one would expect accidents to increase directly with the number of trains that pass a crossing (probabilistically more chance of a train arriving during the traverse).

While accidents at passive level crossings are very scattered and rarely repeat at the same location the survey findings suggest some common characteristics for the locations where they do occur, which is encouraging from the perspective of developing effective risk controls.

**Figure 6 Distribution of Risk Factors**



Conversely, the analysis provides little evidence that crossings with poor sight times can be associated with the occurrence of accidents. Two cases are considered:

- Crossings where the smallest measured sight time is less than the measured traverse time. This is a characteristic of 22% of crossings surveyed where no accident had occurred compared with 28% of crossings surveyed with accident histories.
- Crossings where the sight time is less than five seconds greater than the traverse time (in this case an allowance of five seconds is given for the decision time taken by the user before making the traverse). This is a characteristic of 48% of crossings surveyed where no accident had occurred compared with 50% of crossings surveyed with accident histories.

These findings show that sight times alone do not adequately discriminate crossings at which there have been accidents from all other crossings. This is counter to the traditional view that providing good sighting at a passive level crossings is the most important factor in risk control. Additionally, because such a high proportion of crossings, some 50% based on those surveyed, appear to have poor sight times, this alone cannot provide an effective basis for focussing risk controls.

Figure 7 shows how a simple 'risk score', given to each crossing, is able to differentiate crossings where accidents have previously occurred from those with no accident history. *It must be noted that the 'risk score' is not intended to be an accurate measure of risk, rather a quick and simple way of describing the main risk characteristics, based on a comparatively short inspection time at each crossing. The risk score is derived from readily identifiable crossing and user characteristics which were observed during the inspection, such as the level of utilisation, whether gates are left open, signage, crossing surface, etc.*

Nevertheless, a comparison of the scores obtained for those crossings where accidents have occurred with crossings with no accident history provides further evidence that accidents can be associated with fairly simple 'risk factors':

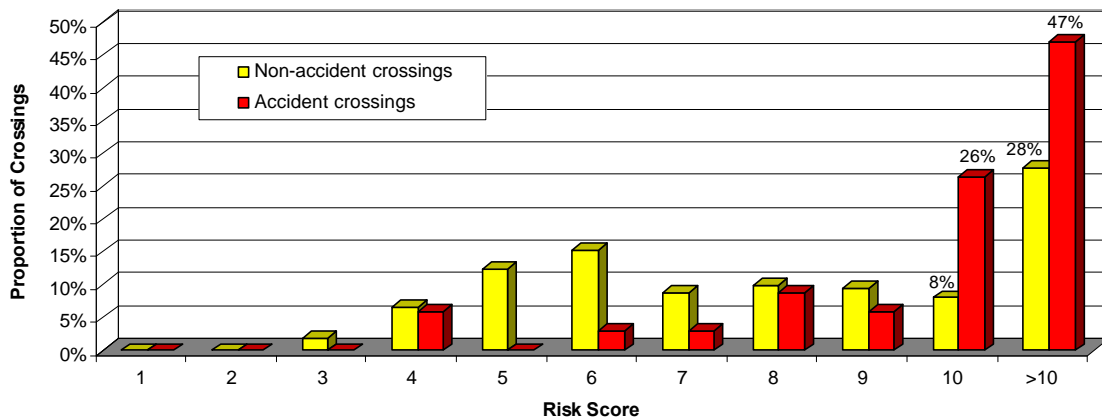


- 28% of crossings surveyed with no accident history were scored in the ‘highest risk score’ category, (i.e. above 10), with 36% scoring 10 or more.
- For crossings with accident histories, the proportion in the ‘highest risk score’ category is greater at 47%, with 73% scoring 10 or more.

In other words, most accidents (i.e. 73%) can be associated with a *combination* of simple risk factors.

However, the remaining 27% of accidents cannot be accounted for by the simple scoring system, and further investigation is required to establish the cause of these accidents, or whether they were ‘random’ events.

**Figure 7 Distribution of Risk Scores Across Survey Sample**



Note: the ‘risk score’ is not intended to be an accurate measure of risk, rather a quick and simple way of describing the main risk characteristics, based on a comparatively short inspection time at each crossing. It is based on readily identifiable crossing and user characteristics which were observed during the inspection, such as the level of utilisation, whether gates are left open, signage, crossing surface.

## Risk Scenarios

This section describes how crossing characteristics may be combined with the way that crossings are used by different user types to produce a series of 'risk scenarios'. The scenarios represent how a user may be at risk because:

- He or she has a particular *mental model* of the crossing, and may therefore traverse when it is not safe to do so.
- The sight time is less than the time taken for the user to traverse – so despite taking care when approaching the crossing and making the traverse they are caught out.
- They get stuck on the crossing or for some reason take longer than 'normal' to traverse (e.g. they cross with their dog off the lead which wanders onto the line, their pushchair gets stuck on a poor surface, etc).

These scenarios have been developed from the information gathered during the survey (interviews, crossing features, and direct observation), the evidence for risk factors provided by the analysis, and a workshop with Railtrack Level Crossing Managers. The purpose of the scenarios is to:

- Form a basis for a model that simulates the occurrence of potential accidents for each scenario based on random arrival of users and a number of trains through the day.
- Provide further evidence, based on the simulation model, for factors that adversely influence risk.

The scenarios are summarised in Table 1.

**Table 1 Risk Scenarios**

<b>Scenario Description</b>	<b>Sequence of Events Leading to Accident</b>	<b>Crossing Features</b>	<b>User Characteristics</b>
1 "Nip across" - user crosses in front of approaching train but misjudges time	<ul style="list-style-type: none"> <li>User arrives at crossing and sees approaching train</li> <li>User begins to traverse quickly</li> <li>User has misjudged the speed of the approaching train or the time taken to traverse - unable to get out of the way</li> </ul>	<ul style="list-style-type: none"> <li>Good sight time</li> <li>Variable train approach speeds</li> <li>Straight track (more difficult to judge speed)</li> <li>High train frequency</li> </ul>	<ul style="list-style-type: none"> <li>Familiar users short of time – use for going to work / jogging / etc</li> <li>Poor judges of speed</li> </ul>
2 "Lazy user" - vehicle user passes through gates left open without taking due care	<ul style="list-style-type: none"> <li>User arrives at crossing and gates are open</li> <li>User does not telephone and passes through gates without taking due care to look for approaching train</li> <li>Train arrives and user is unable to get out of the way</li> </ul>	<ul style="list-style-type: none"> <li>High utilisation by a few regulars</li> <li>Low train frequency</li> </ul>	<ul style="list-style-type: none"> <li>Leaves gates open</li> <li>Vehicle</li> <li>Regular use or work for intensive period</li> </ul>
3 "Disregard" - user fails to acknowledge risk of crossing	<ul style="list-style-type: none"> <li>User approaches crossing unaware of danger</li> <li>They begin the traverse at normal pace without taking due care to look for a train</li> <li>They may see the train as it gets close but the user is then unable to get out of the way</li> </ul>	<ul style="list-style-type: none"> <li>Low train frequency</li> <li>Nearby distractions</li> <li>Gates left open or no barriers</li> </ul>	<ul style="list-style-type: none"> <li>Distracted</li> <li>Regular user with low perception of risk (e.g. infrequent trains)</li> <li>Unfamiliar with crossings and unaware of risks</li> </ul>
4 "Mis-communication" – error in misunderstanding of information provided by telephone	<ul style="list-style-type: none"> <li>Vehicle user arrives at crossing and calls signalman on telephone provided</li> <li>User misunderstands signalman's instruction not to proceed, or signalman gives incorrect information</li> <li>User begins traverse with perception that a train will not come</li> <li>They may see the train as it gets close but the user is then unable to get out of the way</li> </ul>	<ul style="list-style-type: none"> <li>Telephones provided</li> <li>Error by signalman or information is inaccurate (e.g. long sections of line)</li> </ul>	<ul style="list-style-type: none"> <li>Fails to understand signalman's instructions</li> </ul>
5 "Stuck" - user gets 'stuck' or otherwise takes longer to cross than expected	<ul style="list-style-type: none"> <li>User arrives at crossing and takes care to stop, look and listen for a train</li> <li>They begin the traverse at a normal pace</li> <li>During the traverse they get stuck or fall, chase a dog that is off the lead, or their vehicle gets grounded or stalls</li> <li>The train approaches and the user is unable to get out of the way</li> </ul>	<ul style="list-style-type: none"> <li>Uneven surface</li> <li>Queues develop on crossing</li> <li>Exit gates difficult and close to the line</li> </ul>	<ul style="list-style-type: none"> <li>Encumbered with bicycle, pram, or elderly and infirm</li> <li>Dog walkers with dogs off lead</li> <li>Livestock handlers</li> </ul>
6 "Unseen train" - user caught out by negative sighting time	<ul style="list-style-type: none"> <li>User arrives at the crossing and takes care to stop look and listen for a train</li> <li>The train either does not sound its horn or is not heard by the user</li> <li>The user begins the traverse moving quickly as they are aware of the short sight time</li> <li>A train comes into sight and the user is unable to get out of the way before the train arrives at the crossing</li> </ul>	<ul style="list-style-type: none"> <li>Short sight time</li> <li>Long traverse time (surface, many tracks, angle, exit not opposite entrance)</li> </ul>	<ul style="list-style-type: none"> <li>Take longer to traverse than sight time</li> </ul>
7 "Second train comes" – user waits for train to pass but is caught out by second train from opposite direction	<ul style="list-style-type: none"> <li>User arrives at the crossing and sees an approaching train</li> <li>They wait for the first train to pass</li> <li>They fail to look in the opposite direction for an approaching train, or the view is blocked by the first train</li> <li>They begin the traverse at normal pace</li> <li>The second train arrives at the crossing and the user is caught by surprise</li> </ul>	<ul style="list-style-type: none"> <li>Double track</li> <li>Many trains</li> <li>Trains scheduled to pass (e.g. near station)</li> <li>Track curvature conceals second train</li> </ul>	<ul style="list-style-type: none"> <li>User fails to check both directions i.e. thinks it is safe to cross when a train has passed</li> </ul>

### **Simulation Model**

A mathematical model has been developed which simulates the opportunity for accidents (i.e. a user struck by a train) for each of the risk scenarios described above.

In overview, the model comprises two main parts:

- Estimation of the *relative likelihood* of each risk scenario actually arising based on consideration of user and crossing features (as shown for each scenario in Table 1). For example, where gates are left open, this is deemed to make ‘disregard’ more likely, and poor surfaces are judged to make getting ‘stuck’ more likely.
- *Simulation of an accident* occurring based on train arrivals distributed evenly through the day (and subject to a certain degree of random punctuality) and the random arrival of users. An accident may occur if the user begins the traverse, and during the traverse the train arrives at the crossing.

The product of these provides the output of the model: a number of theoretical opportunities for an accident in a year by scenario. The model does not include the probability that a user can avoid the accident, so the output is the number of ‘events’ (or potential accidents) per year, not actual accidents.

### **What does simulation tell us about risks?**

A selection of model outputs are presented in Figure 8, in which results for crossings on the same line of route are shown on each graph.

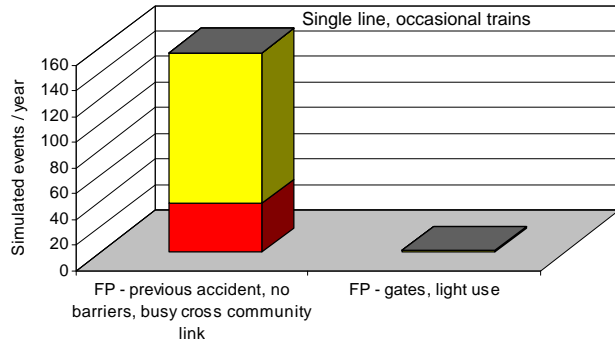
In overview, the model tests show the following:

- Proportionately higher number of events for crossings with high traffic moments (as expected).
- There is a comparatively small chance of two randomly distributed trains passing a crossing in close succession so that the user may be caught out by the second train (Scenario 7). This, of course, does not apply to crossings where trains are timetabled to pass close together.
- Users can be caught out by ‘unseen trains’ (Scenario 6) at crossings with sight times shorter than the traverse time. However, there is usually a correspondingly smaller chance of other events such as ‘nipping across’ (Scenario 1), and ‘disregard’ (Scenario 3).
- ‘Lazy users’ (Scenario 2) can increase the overall number of events where gates are left open.
- The results for getting ‘stuck’ on the crossing (Scenario 5) are very sensitive to whether the crossing is judged to have a surface on which users might get stuck.

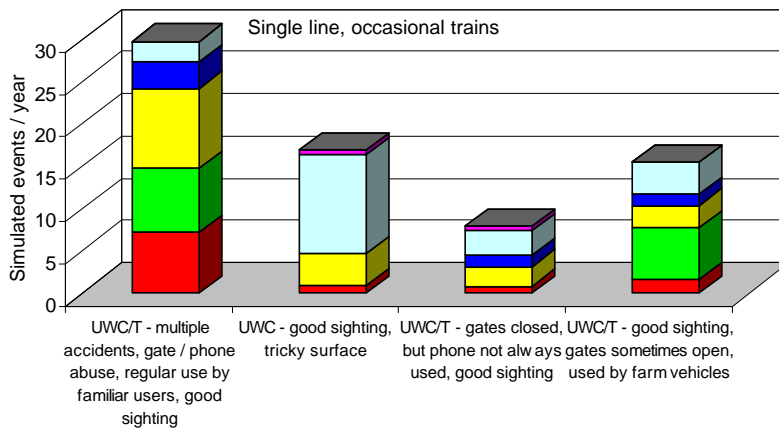
In summary, a model based on a Monte Carlo simulation may be a useful basis for predicting the chance of random accidents at passive crossings. However, to model

more accurately the relative contributions of different accident scenarios, further work would be required. In particular, a more detailed understanding of how user behaviour is influenced by crossing features would be required to develop more robust 'weightings' for each scenario.

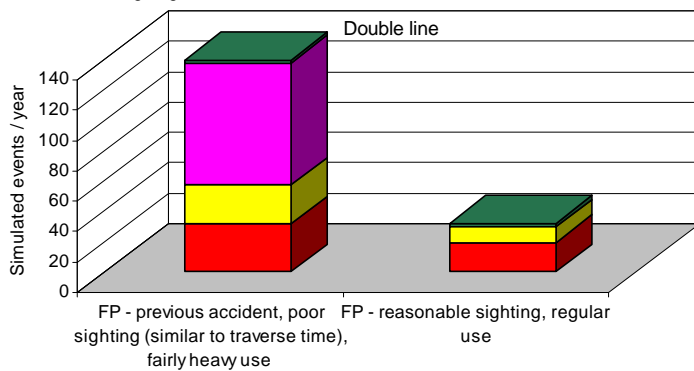
**Figure 8 Example Simulation Model Outputs – Predicted Events/Year**



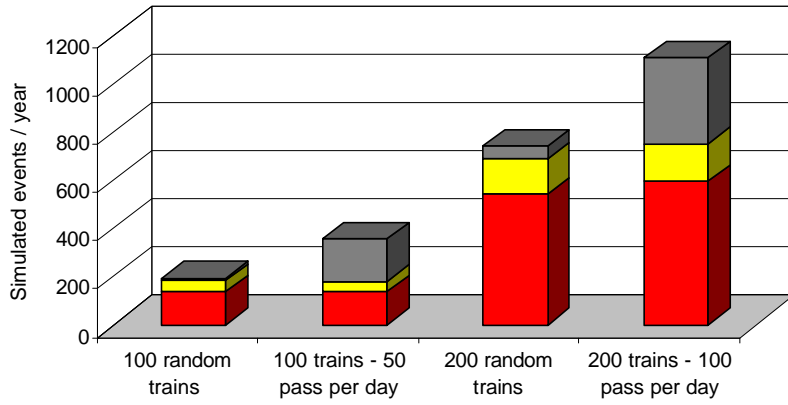
- Dominance of utilisation on results (first crossing over 100 users per day, second crossing very few traverses per day).
- The main problem at first crossing is disregard (there are few trains and no barriers).



- Effect of gate abuse on results ("Lazy User" at first and fourth crossings).
- Problem of grounding at second crossing makes chances of 'getting stuck' greater



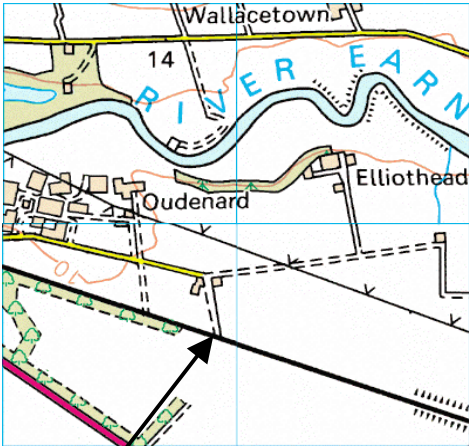



- Simulation of negative spare sight times. First crossing has poor sighting, and "Unseen train" is the dominant problem. Whilst the simulation of occurrences of being caught by the unseen train is quite low, the result dominates because the *likelihood* of other scenarios is low (e.g. unlikely to "disregard" or "nip across")
- At the second crossing "nipping across" is the dominant problem, sighting is not a problem

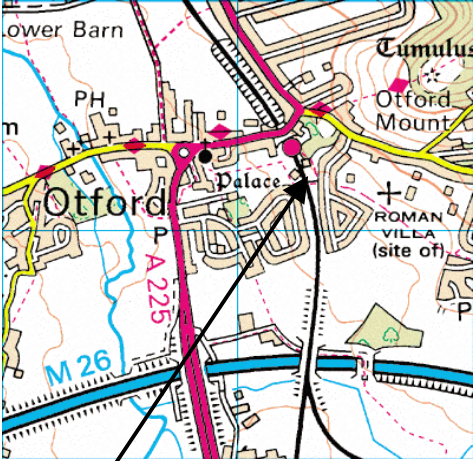



- Shows effect of increasing number of trains from 100 to 200 per day.
- At this crossing, the dominant risks are "nip across" and "disregard".
- The crossing is on double line, but where train are randomly distributed, the simulation shows the chances of two passing in close succession to be low.
- However, where trains are timetabled to pass (second and third columns) the risk of being caught by two trains is much more significant

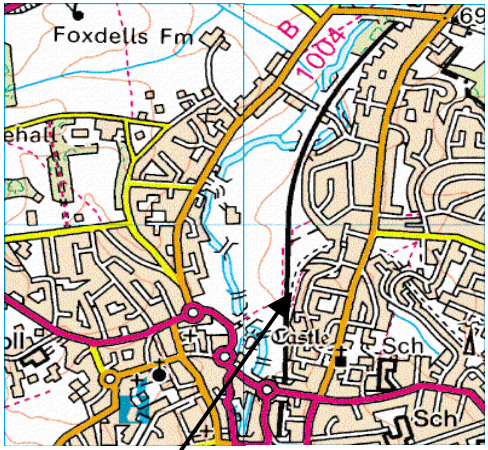





## Examples of Case Studies of Level Crossings

Crossing	Oudenarde 1	OS Ref	N0149175	Zone	Scotland	Date/Time	23/10/00 11am
<b>Location</b>	 <p style="text-align: center;">Oudenarde 1</p>			<b>Crossing Information</b>			
				Type:	UWC		
				Users count:	None		
				Evidence of other use:	Interview suggested seasonal use by farmer and farm workers		
				Train count:	1 2 car PT-DMU		
				Speed (mph):	40, visual estimate		
				Distance across tracks (m):	50		
				Distance along tracks (m):	3.5		
				Angle with track (deg):	60°		
				Accident history:	None known of		
				Other Information:	Single track		
<b>Photographs</b>							
							
North approach. No signs due to farmers request. Crossing between private farm land.		North side looking west.					
<b>Protection of the line (awareness of crossing)</b>							Score
A single track leads from a quiet road, past farm building to the north side of the crossing. Farmers fields are on the south side of the crossing. Both gates were closed and padlocked. No signs on farmers request. No telephone.							1
<b>Warning of train approach (basis for decision)</b>							Score
Sighting times approximately 50 seconds looking east and reduced to 25 seconds looking west due to a bridge. Crossing time is 9 seconds but may be much longer for large farm vehicles. The train that passed did not sound its horn.							1
<b>Risks of crossing use</b>							Score
The user could be distracted by the nearby busy road. There are trip hazards on the crossing and the crossing is slippery when wet for pedestrians – but mainly used by vehicles.							3
<b>Traffic moment</b>							Score
Estimated traffic moment: Approximately 25 trains pass the crossing per day. The number of users per day is estimated to be 2.							3
<b>Main Risk Factors</b>							Total
Long crossing times with farm vehicles. Trip and slip hazards on crossing.							8
<b>Remediation Options Based on Observation</b>							
Overgrown hedges should be cut back. A telephone could be installed to improve the safety of the crossing if the user would agree.							

Crossing	Pilgrims Way	OS Ref	TQ533593	Zone	Southern	Date/Time	23/8/00 12.30pm
<b>Location</b>	 <p style="text-align: center;"><b>Pilgrims Way</b></p>			<b>Crossing Information</b> Type: FPS Users count: 1 child 2 elderly pedestrians Evidence of other use: Clearly a frequently used crossing Train count: 1 3 car PT-EMU Speed (mph): varies Distance across tracks (m): 11.0 Distance along tracks (m): 1.5 Angle with track (deg): 60° Accident history: None known of Other Information: One interview carried out Station visible from crossing			
<b>Photographs</b>							
	<p>West side of crossing looking north. Note adjacent station. Some trains are fast and do not stop at station.</p>			<p>Trip hazard on crossing.</p>		<p>West side of crossing looking south. Good visibility. Train speeds vary.</p>	
<b>Protection of the line (awareness of crossing)</b>							Score
	<p>Stiles generally appear to be in good condition although both are worn. Signs faded and obscured by bushes, otherwise in good condition.</p>						1
<b>Warning of train approach (basis for decision)</b>							Score
	<p>1 train passed the crossing during the visit and sounded its horn. Sighting times vary due to slowing and accelerating trains at the adjacent station..</p>						2
<b>Risks of crossing use</b>							Score
	<p>Generally the crossing appears to be in good condition however crossing boards have cracked and some are at various levels producing trip hazards for pedestrians users. Decision point is lineside of stiles.</p>						2
<b>Traffic moment</b>							Score
	<p>Estimated traffic moment: Approximately 70 trains per day</p>						4
<b>Main Risk Factors</b>							Total
	<p>Crossing boards at various levels present tripping hazards for pedestrians. User distraction from adjacent station and varying train speeds also present risks to crossing users.</p>						9
<b>Remediation Options Based on Observation</b>							
	<p>Repair crossing boards to provide even crossing for all users. Cut back bushes on approaches to crossing to improve visibility of signs.</p>						

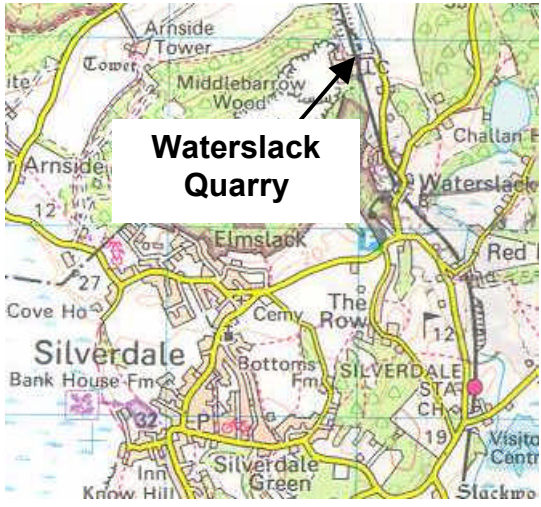


Crossing	Johnsons	OS Ref	TL 492216	Zone	Anglia	Date/Time	28/06/00
<b>Location</b>				<b>Crossing Information</b>			
 <p>Johnsons</p>				Type: FP Users count: 1 elderly pedestrian 1 pedestrian with 5 dogs 2 cyclists and 2 unaccompanied school children Evidence of other use: Heavy use – “cross community link” Train count: 5 4 car PT-EMU Speed (mph): 70 Distance across tracks (m): 9.0 Distance along tracks (m): 1.5 Angle with track (deg): 90 Accident history: unknown Other Information: The stiles on either side of the crossing are heavily worn			
<b>Photographs</b>							
							
Crossing looking west Note poor condition of crossing boards and temporary works		West side looking south		East approach stile Note worn condition of stile			
<b>Protection of the line (awareness of crossing)</b>							Score
Johnsons crossing is a FP crossing on a public footpath into a local recreation park near the town and nearby residential areas. Stiles worn (complaints from interviewee) but robust - and signs are OK.							0
<b>Warning of train approach (basis for decision)</b>							Score
3 out of 5 trains sounded their horns during the visit. Traverse times about 6 secs (longer – about 10 secs - for a lady walking her 5 dogs) compared with sighting times of between 10 and 20 secs (10 for East looking North).							4
<b>Risks of crossing use</b>							Score
The crossing surface is in poor condition and requires remedial works to prevent tripping/slipping accidents. Also decision point is on lineside of stiles and due to vegetation not in position of safety (may change during Autumn / Winter).							5
<b>Traffic moment</b>							Score
Estimated traffic moment:							5
<b>Main Risk Factors</b>							Total
Large numbers of public using the crossing to gain access to town and parks on either side, together with high trains speeds.							14
<b>Remediation Options Based on Observation</b>							

Review use of stiles – consider gates – elderly complained during interview. Condition of crossing is poor and requires improvements to prevent tripping accidents.

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<b>Crossing</b>	Waterslack Quarry	<b>OS Ref</b>	SD 470 769	<b>Zone</b>	North West	<b>Date/Time</b>	16/8/2000 14:00 to 14:50
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<b>Location</b>	<b>Crossing Information</b>
	Type: UWC/T Manned Users count: 13HGV 1 Car 10 Pedestrian Evidence of other use: Very regular HGV use Very regular footpath Train count: 2 x 2 car DMU Speed (mph): 45 Distance across tracks (m): 10 Distance along tracks (m): 9 Angle with track (deg): 75 Accident history: Unknown Other Information: Crossing serves Middlebarrow Quarry Records indicate:- 80-100 HGV / day 25 Trains / day (15/8/00)

<b>Photographs</b>
  
<p>West side looking South Typical long sighting distance</p> <p>East side approach</p> <p>View from East side Quarry in background</p>

<b>Protection of the line (awareness of crossing)</b>	Score
Signs OK. Gates OK.	0
<b>Warning of train approach (basis for decision)</b>	Score
Minimum sight time = 23 secs (West side looking South) Crossing Time = 7 secs (HGV) , 9 secs (Pedestrian) , 14 secs (Pedestrian Group) Warning Time – Crossing Time = Over 10 secs	0
<b>Risks of crossing use</b>	Score
Decision Point is on lineside of stile. Background noise and quarry activity may cause user distraction – although careful use should be ensured through manning arrangements.	3
<b>Traffic moment</b>	Score
Estimated Traffic Moment: Over 1000 (2 Trains per hour, 20 to 30 Walkers per day , 80 to 100 HGV's per day , 20 Cars per day)	5*
<b>Main Risk Factors</b>	Total
Very heavily used by construction vehicles.. Procedure for closing gates is for signaller to ring up the crossing operator to warn of an approaching train and instruct the gates to be closed. This is not fail safe if the signaller fails or cannot contact the crossing operator.	N/A

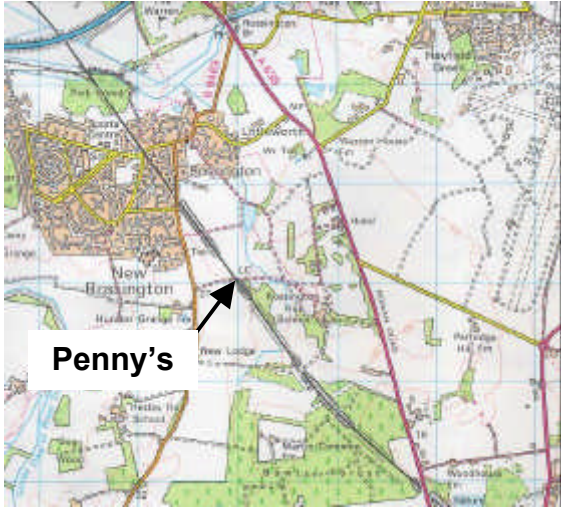
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**Remediation Options Based on Observation**

Monitor and review crossing procedures to ensure that the system provides suitable protection from potentially high consequence accidents.

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<b>Crossing</b>	Penny's	<b>OS Ref</b>	SK 630 970	<b>Zone</b>	North East	<b>Date/Time</b>	25/10/2000 12:45 to 13:20
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<b>Location</b>		<b>Crossing Information</b>
		<p>Type: FPG</p> <p>Users count: 1 Dog Walker</p> <p>Evidence of other use: Regularly used by pedestrians</p> <p>Train count: 3 x 10 Car HST 1 x 22 Car Freight</p> <p>Speed (mph): 100 – 125 (HST) 30 (Freight)</p> <p>Distance across tracks (m): 12</p> <p>Distance along tracks (m): 2</p> <p>Angle with track (deg): 80</p> <p>Accident history: None known of</p> <p>Other Information: Adjacent to open heath land with evidence of high usage particularly for dog walking</p>

<b>Photographs</b>			
			
West side approach Fence missing	View from West side	East side gate Note: regularly used path inside fenceline	East side looking South

<b>Protection of the line (awareness of crossing)</b>	Score
Signs are in acceptable condition. Fence alongside West gate has been removed, probably to provide access for motorbikes. East gate is rotten and does not self close fully. Evidence of regular walking routes on lineside of fencing.	3
<b>Warning of train approach (basis for decision)</b>	Score
Minimum sight time = 26 secs (West side looking South). Crossing Time = 10 secs Warning Time – Crossing Time = 16 secs Trains do not always use horns (Based on interview, 2out of 4 observed)	1
<b>Risks of crossing use</b>	Score
Decision Point is on lineside of gate. No crossing boards are provided in the 6 foot which may cause a trip hazard.	3
<b>Traffic moment</b>	Score
Estimated Traffic Moment: Over 1000 (6 Trains per hour, 20 to 40 Users per day)	5
<b>Main Risk Factors</b>	Total

Very high usage and high numbers of very fast trains.  
Lack of protection provided and possible use of lineside walking routes.  
Trip hazards caused by partial crossing boarding.

12

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**Remediation Options Based on Observation**

Reinstate lineside fencing and replace gates immediately.

Investigate use of lineside walking routes and if possible fence off to restrict them. Provide crossing boards across full width of crossing.

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## **Appendix A.14**

### **NORTHERN IRELAND: The Private Crossings (Signs and Barriers) Regulations 2007 SR No. 41**

**2007 No. 41**

**TRANSPORT**

**The Private Crossings (Signs and Barriers) Regulations  
(Northern Ireland) 2007**

*Made . . . . . 26th January 2007*

*Coming into operation . . . . . 2nd March 2007*

The Department for Regional Development in exercise of the powers conferred on it by Section 5 of, and Schedule 1 to, the Railway Safety Act (Northern Ireland) 2002<sup>(a)</sup> and of every other power enabling it in that behalf hereby makes the following Regulations:

**PART I  
PRELIMINARY**

**Citation and commencement**

1. These Regulations may be cited as the Private Crossings (Signs and Barriers) Regulations (Northern Ireland) 2007 and shall come into operation on 2nd March 2007.

**Interpretation**

2. In these Regulations—

“crossing” means a level crossing;

“crossing operator” means an operator of a railway that is crossed in any place by a private road or path;

“the 2002 Act” means the Railway Safety Act (Northern Ireland) 2002;

“the 1997 Regulations” means the Traffic Signs Regulations (Northern Ireland) 1997<sup>(b)</sup>.

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<sup>(a)</sup> 2002 c. 8 (N.I.)  
<sup>(b)</sup> S.R. 1997 No. 386

## PART II GENERAL PROVISIONS

### **Crossing Signs to be of the size, colour and type shown in diagrams**

3. Subject to the provisions of these Regulations, for the purposes of section 5 of, and Schedule 1 to, the 2002 Act, a crossing operator may cause or permit the placement on or near a private road or path of a crossing sign of a size, colour and type described and shown —

- (a) in a diagram in Schedule 1; or
- (b) in a diagram in Schedule 3 to the 1997 Regulations; or
- (c) in one of the diagrams numbered 601.1, 602, 1001, 1002.1, 1003, 1003.2, 1004, 1004.1, 1005.1, 1005, 1008, 1008.1, 1010, 1012.1, 1013.1, 1014, 1022, 1023, 1026, 1045, in Schedules 2 and 6 to the 1997 Regulations.

## PART III CROSSING SIGNS SHOWN IN SCHEDULE 1

### **Colours of backs of crossing signs**

4. The back of any crossing sign shown in a diagram in Schedule 1 and any post or other structure specially provided for mounting the sign shall be coloured black or grey.

### **Dimensions**

5.—(1) Any variation in a dimension specified in Schedule 1 shall be treated as permitted by these Regulations if the variation is not more than 5% more or less than the dimension specified.

- (2) In the diagrams in Schedule 1 the dimensions given are expressed in millimetres.

### **Permitted variants**

6.—(1) Where the circumstances so require the indication given by a crossing sign shown in a diagram in Schedule 1 may be varied in the respect (if any) shown below the diagram relating to that sign.

(2) Where a crossing sign in a diagram in Schedule 1 contains an indication as to the penalty relating to a failure to obey the requirements on that sign, the indication of the penalty may be varied when necessary to accord with changes in the legislation governing the nature and level of penalty.

### **Illumination of Crossing Signs**

7.—(1) Subject to paragraphs (2) and (3) of this regulation all parts other than the back of every crossing sign shown in a diagram in Schedule 1 shall be illuminated by means of retro reflecting material.

- (2) No retro reflecting material shall be applied to—

- (a) any part of a crossing sign coloured black; or
- (b) the red and green lights in the crossing signs shown in diagrams 107 and 108 and prescribed in regulation 8.

(3) Retro reflecting material need not be applied to a crossing sign at a crossing that is not used by motor vehicles.

### **Miniature stoplights**

8.—(1) The crossing signs shown in diagrams 107 and 108 shall contain red and green lamps which are internally illuminated by a steady light in such a manner that—

- (a) when one light is illuminated the other is not illuminated;
- (b) the green lamp is and remains illuminated for so long as no railway vehicle is approaching the vicinity of the crossing from either direction; and
- (c) the red lamp is and remains illuminated for so long as the green lamp is not illuminated.

(2) The lenses of the lamps shall be—

- (a) circular and not less than 60 millimetres in diameter; or
- (b) rectangular with each side measuring not less than 60 millimetres; and the distance between the edges of the lenses of the green lamp and the red lamp shall be not less than 40 millimetres.

(3) The information, warnings, requirements and prohibitions conveyed by the lamps described in paragraphs (1) and (2) shall be as follows—

- (a) the red lamp when illuminated shall convey the warning that a railway vehicle is approaching the vicinity of the crossing and the prohibition that persons must not proceed across the crossing;
- (b) the green lamp when illuminated shall convey the information that no railway vehicle is approaching the vicinity of the crossing and persons may proceed across the crossing;
- (c) if neither the red nor green lamp is illuminated persons should either telephone the crossing operator or proceed across the crossing with caution after having ascertained that no railway vehicle approaching the vicinity of the crossing in accordance with the instructions shown on the sign.

## **PART IV BARRIERS**

### **Barriers to be of the character described in Schedule 2 or Schedule 3**

9. For the purposes of section 5 of, and Schedule 1 to, the 2002 Act, where a railway is crossed in any place by a private road or path, the operator of that railway may cause or permit a barrier to be placed on or near the private road or path near the crossing if it is, in the case of a gate, of the character described in Schedule 2. or, in the case of any other form of barrier, of the character described in Schedule 3.

## **PART V CROSSING SIGNS RELATING TO TELEPHONES**

### **Placement of signs relating to telephones**

10. The authority which these Regulations give for the placement of crossing signs relating to telephones at a crossing shall only apply where telephones are, or are to be, provided on both sides of the crossing and connected direct to the crossing operator.

Sealed with the Official Seal of the Department for Regional Development on 26th January 2007.

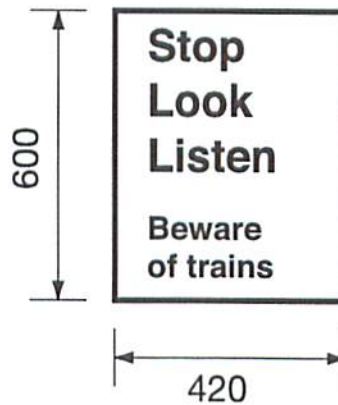
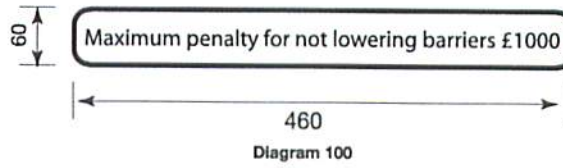
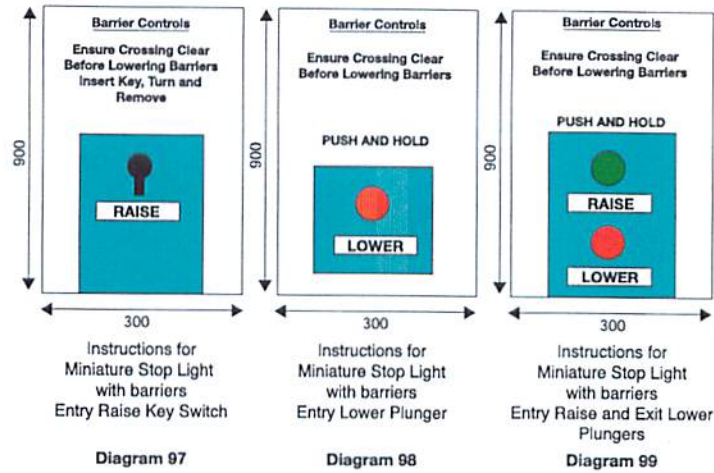
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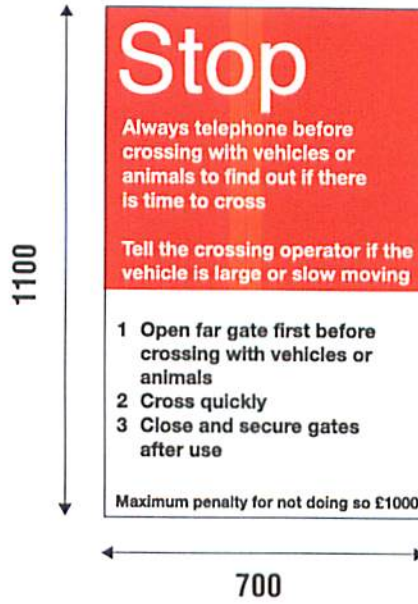
A senior officer of the Department for Regional Development

SCHEDULE 1  
CROSSING SIGNS

(Regulation 3)



Black lettering on white background with black border  
Warning sign for a non-vehicular crossing  
Diagram 101



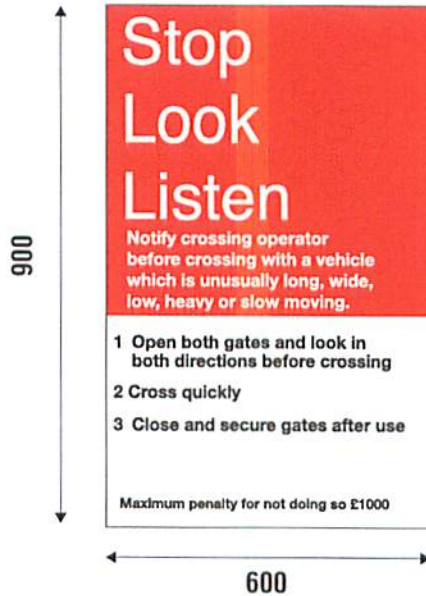
Upper section — White lettering on red background

Lower section — Black lettering on white background

**Instructions for use at a vehicular crossing without a telephone**

**Diagram 102**

Permitted variant: Telephone number of crossing operator may be added.

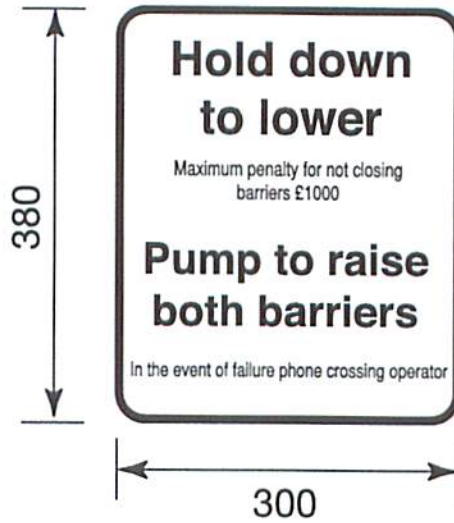


Upper section — White lettering on red background

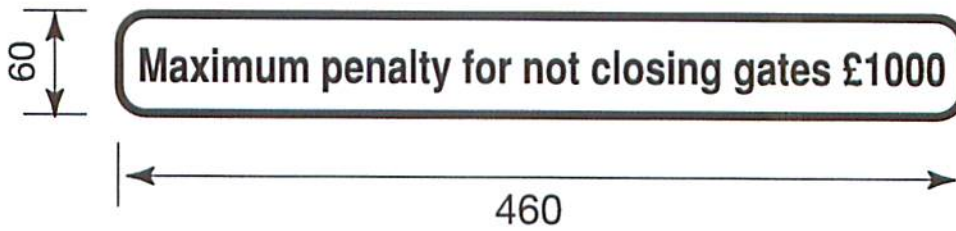
Lower section — Black lettering on white background

**Instructions for use at a vehicular crossing with a telephone**

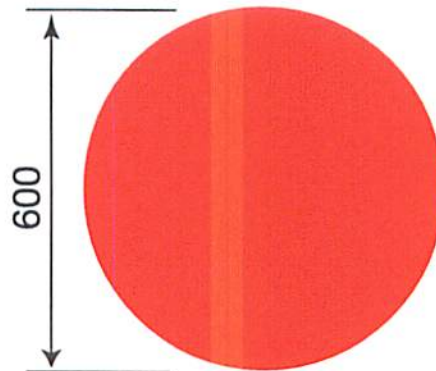
**Diagram 103**



Black lettering and border on white background  
**Operating instructions for barrier**  
 Diagram 104



Black lettering and border on white background  
**Sign indicating the penalty for failure to shut the gate at a vehicular crossing**  
 Diagram 105



Red background  
**Target for crossing gate**  
 Diagram 106

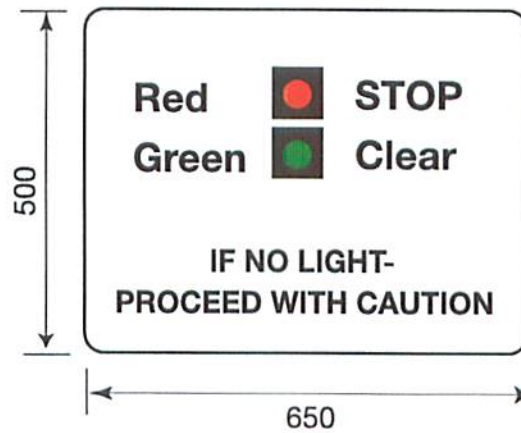


Black lettering and border on white background

Sign for use with miniature stop lights at a crossing with a telephone

Diagram 107

Permitted variant: The lenses of the lamps may be rectangular instead of circular



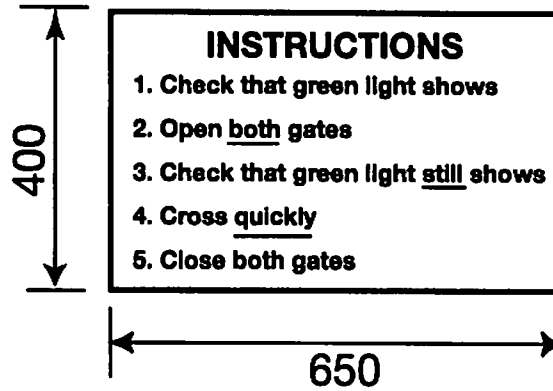
Black lettering and border on white background

Sign for use with miniature stop lights at a crossing without a telephone

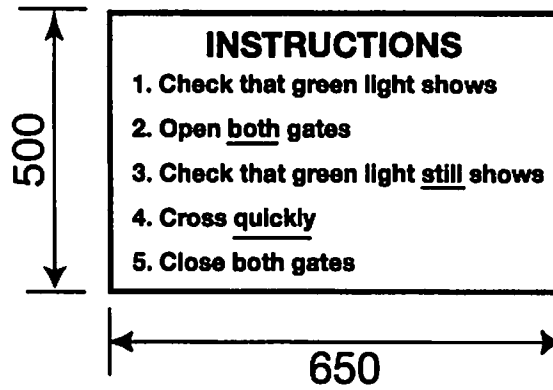
Diagram 108

Permitted variant: The lenses of the lamps may be rectangular instead of circular

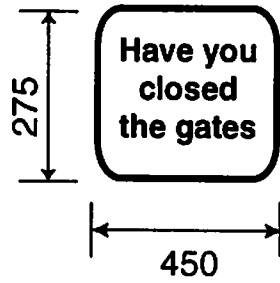




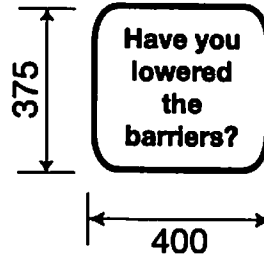
Black lettering and border on white background  
Instructions for use at a crossing with miniature stop  
lights and user-operated gates  
Diagram 109



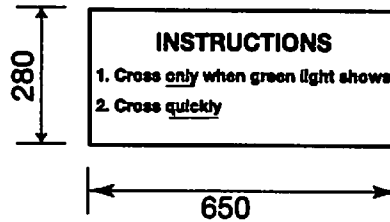
Black lettering and border on white background  
Instructions for use at a crossing with miniature stop lights and user-operated barriers  
Diagram 110



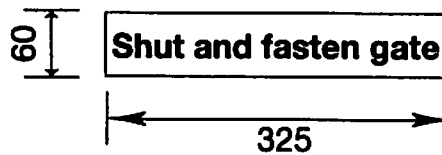
Black lettering and border on white background  
**Reminder at a crossing with user-operated gates**  
**Diagram 111**



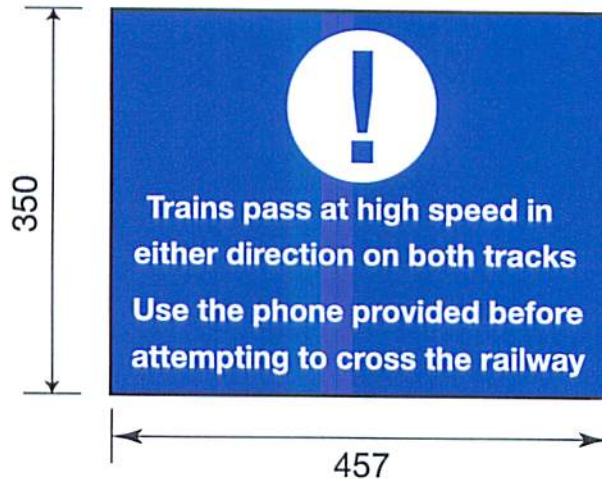
Black lettering and border on white background  
**Reminder at a crossing with user-operated barriers**  
**Diagram 112**



Black lettering and border on white background  
**Instructions to non-vehicular traffic at a crossing with miniature stop light**  
**Diagram 113**



Black lettering and border on white background  
**Instructions at a crossing with gates**  
**Diagram 114**



Upper section — Blue exclamation mark inside white circle

Lower section — White lettering on blue background

Warning sign for use on bi-directional double track

Diagram 115



Black lettering on white background with red border

Warning sign for withdrawal of timetabled services

Diagrams 116

## SCHEDULE 2

(Regulation 9)

### GATES

1. Where gates are used, each gate shall (by itself or with another gate on the same side of the railway) be long enough to extend across the full width of a private road or path, and shall be pivoted to open away from the railway.
2. When a gate is closed, the uppermost surface of the gate shall not be less than 1350 millimetres above the road surface at the centre of the private road or path and the under clearance between each gate and the road shall not exceed 150 millimetres. Where the private road or path is an unmetalled track, the under clearance between the gate and the ground shall be no greater than 150 millimetres than is reasonably necessary, having regard to the need to avoid the gate grounding during opening and closing movements.
3. Where a gate is not installed solely for use by pedestrians, it shall be furnished with suitable mechanisms for securing it in the open and in the closed positions.
4. So far as reasonably practicable, a gate shall be constructed so as to be strong enough to withstand distortion or fracture caused by wind pressure or by a farm animal, and, subject thereto, it shall be as light in weight as possible.

## SCHEDULE 3

(Regulation 9)

### BARRIERS OTHER THAN GATES

1. Where barriers are used, they shall when lowered across a private road or path be long enough to extend either—
  - (a) across the full width of the private road or path, or
  - (b) from the left-hand side of the private road or path (as seen from a vehicle approaching the crossing) to a point as close as possible to the centre of the private road or path as is consistent with allowing a clear passage at least 3 metres wide between the tip of the barrier and the other side of the private road or path.
2. When a barrier is lowered its uppermost surface shall be not less than 900 millimetres above the road surface at the centre of the private road or path and the under clearance between a barrier and the road surface shall not exceed 1000 millimetres.
3. A barrier shall be provided with means to raise it and hold it in the raised position and means to release the holding mechanism. A barrier may be so linked with any other barrier at the crossing that the barriers can be raised or lowered simultaneously from either side of the crossing.
4. A cover shall be provided for each pivot post for the purposes of guarding against danger to any person from the operating mechanism and the moving parts of the barrier machine.
5. The barriers when lowered shall display on both front and rear faces alternate red and white bands each approximately 600 millimetres long and to the full depth of the barriers. A strip of retro reflecting material not less than 50 millimetres deep, in colour matching that of the bands, shall be provided along the full length of each band.
6. The barriers may be fitted with skirts which fence in the space between the barriers and the road surface. Skirts shall be of a light colour.
7. Electric lamps may be fitted to the barriers and each lamp shall show a red light, when illuminated, in each direction along the private road or path.

**8.—(1) So far as reasonably practicable—**

**(a) a barrier shall be constructed so as to be strong enough to withstand distortion or fracture, and**

**(b) a skirt fitted to a barrier shall be capable of withstanding damage, caused by wind pressure or by a farm animal.**

**(2) Subject to sub-paragraph (1) above, a barrier (with a skirt, if fitted) shall be as light in weight as possible.**

## EXPLANATORY NOTE

*(This note is not part of the Regulations)*

Section 5 of, and Schedule 1 to, the Railway Safety Act (Northern Ireland) 2002 authorises the operator of a railway that is crossed by a private road or path to cause or permit the placement near the crossing of crossing signs or barriers that are prescribed in Regulations made by the Department for Regional Development.

These Regulations prescribe crossing signs and barriers for the purpose of section 5 and Schedule 1. Any person who fails to comply with any requirement, restriction or prohibition conveyed by a crossing sign lawfully placed on or near a private road or path near a place where it crosses a railway shall be guilty of an offence under the Railway Safety Act (Northern Ireland) 2002 and shall be liable on summary conviction to a fine not exceeding level 3 on the standard scale (£1000).

These Regulations have been notified to the European Commission pursuant to European Parliament and Council Directive 98/34EC of 22 June 1998 (O.J. No. L204, 21. 7.98, p. 37) as amended by European Parliament Council Directive 98/48 of 20th July 1998 (O.J. No. L217, 5.8.98, p. 18) laying down a procedure for the provision of information in the field of technical standards regulations and of rules on Information Society services.

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