

Federal Railroad Administration Office of Safety Headquarters Assigned Accident Investigation Report HQ-2008-36

Union Pacific Railroad Company (UP) Encinal, TX March 27, 2008

Note that 49 U.S.C. §20903 provides that no part of an accident or incident report made by the Secretary of Transportation/Federal Railroad Administration under 49 U.S.C. §20902 may be used in a civil action for damages resulting from a matter mentioned in the report.

DEPARTMENT FEDERAL RAILF	OF TRA ROAD A	ANSPORT DMINIST	TATIC RATI	ON ON	FRAFA	ACTU.	AL RA	ILR	OAD A	CCII	DENT R	EPORT		Ι	FRA Fi	le #	<u>HQ-200</u>	<u>)8-36</u>
1.Name of Railroad (1a	1a. Alphabetic Code					Ib. Railroad Accident/Incident No.											
2.Name of Railroad C	2a	Alphabetic	Code			2b. Railroad Accident/Incident No.												
3.Name of Railroad C	3a	Alphabetic	c Code			3b. I	3b. Railroad Accident/Incident No.											
N/A 4 Name of Railroad F	49	Alphabetic	N/A Code			4h I	N/A A Railroad Accident/Incident No											
Union Pacific RR (14.		UP			7.7	0308SA019											
5. U.S. DOT_AAR G	irade Cro	ssing Ident	ificatio	on Nur	nber 446	6675K		6. L Moi	nth 03	Day	ncident y 27 Ye	ar 2008	/.1	03:4	7:			V PM
8. Type of Accident/Indicent 1. Derailment 4. Side collision									7. Hwy-rail crossing 10. Explosion-detonation						tion 13. Other (describe in			
(single entry in coo	3. Rear end collision 6. Broken Train collis							8. 9.	Obstructio	on on	g 11. F 12. C	Other impa	cts	lire	07			
9. Cars Carrying HAZMAT		10. HAZ		11.	Cars Rel	leasing	g		12. Peopl	e	13. Div			ision				
	0	Damaged/Derailed N/A							N/A		Evacuated			0			an Antor	io
14. Nearest City/Town							nearest t 3	enth) 80.65) 16. Sta 5		State Abbr Code		17. County		V	WEBB		
18. Temperature (F)		19. Visit	ility	(sing	le entry)	Code	20. V	Veathe	ather (single e		entry) C		1	21. Type of Track			Code	
(specify if minus) 95) F	1.1	Dawn Day	3.D 4.E	usk Dark	2	1	l. Clea 2. Clou	r 3. Ra udv 4. Fo	un 5 og (1 5.Sleet			1. Main 3. S 2. Yard 4. I			ng stry	1
22. Track Name/Nu	mber					23. FR	A Track	(Code 2		24. Annual Track Densit			25. Tim	25. Time Table Direction		ction	Code
		Si	ngle M	ain Tr	ack	Cla	uss (1-9, 2	^{X)}	4	(gross tons in millions) 35				1. North 3. East 2. South 4 West			1	
							OPER	ATI	NG TRA	IN #1								
26. Type of Equipme	ent 1.	. Freight tra	un .	4. Wo	ork train 7.	Yard/sv	vitching	A.	Spec. MoV	W Equi	p. Code	27. Was E	Equip ded?	ment C	Code	28. 7	Frain Nu	nber/Symbol
Consist (single entry) 2. Passenger train 5. Single car 8. Light loco(s). 3. Commuter train 6. Cut of care 9. Maint (inspect of											1	1. Y	les l	s 2. No 1 AMXASB27N				
29. Speed (recorded	(enter	code(s)	that ap	oply)			31a. Remotely Controlled Locomotive?											
R - Recorded a. ATCS g. Auton									lock affic	m.Spe	er than mai	tions n track		0 = Not a remotely controlled 1 = Remote control portable				
20 Trailing Tops (gross topping) i. Time to								able/tr	ain orders	o. Pos	itive train c	control		2 = Remote control tower 3 = Remote control				
excluding power units) d. Cab j.Track v e. Traffic k Direct								varrant traffic	t control	p. oui	Code(s	y in narrati)	ive)	s = Keni transmi	tter - m	ore th	nan one	
		4059		f.	Interlocking	g	l.Yard lir	mits		e	N/A N/A	A N/A 1	N/A	remote o	control	transı	mitter	0
32. Principal Car/Unit a. Initial and Number b. Position in Train c. I									d(yes/no)	33. It	f railroad er enter the nu	mployee(s) umber that) teste were	d for drug	g/alcoho n	l use,	, Alcohol	Drugs
(1) First involved (derailed, struck, e		0		Ν	I/A		the appropr	riate box.		F			N/A	N/A				
(2) Causing (if med		0		N	/A	34.	Was this c	onsist trans	sporti	ing passengers? (Y/N				N				
35. Locomotive Unit	ts	a. Head		Mid T	`rain	R	ear End		36. Cars	3			Lo	aded		Emp	oty	
(1) Total in Trair	,	End	b. Ma	nual	c. Remote	d. Manu	al c. Re	mote	(1) Total	in Fau	inment Cor	a. Fre	eight	b. Pass.	c. Fre	ight	d. Pass.	e. Caboose
(1) Total Deroile	- 	2		0	0	0	0	,	(2) Total	Donoil				0	1	1	0	0
37. Equipment Dama	nge	0		0	0	0	0)	(2) 10tal	Derand	a		0	0	()	0	0
This Consist		\$400.00	3	88. Tra & Stru	ck, Signal, V icture Dama	Vay, ge ∣	\$0.00		39. Prima Code	ary Cau	se	M302		40. Cont Code	ributing	g Caus	se	N/A
	Number of Crew Members								Leng					a of Time on Duty				
41. Engineer/ Operators 1	42. Fir	emen		43. Conductors 44. Brakemen					45. Engineer/Operator					46. Conductor Hrs 3 Mi 17				
Casualties to:	47. Railı	road Emplo	1 0				0 Other		50. EOT Device?					51. Was EOT Device Properly Armed?				
Fatal		0		0 0			1	1. Yes 2. No			1	1. Yes 2. No 1						
Nonfatal		0			0 1				52. Caboose Occupied by Crew? 1. Yes 2. No				No	o N/A				
	I					0	PERA	TING	5 TRAIN	[#2								<u> </u>
53. Type of Equipme Consist (single en	nt 1. htry) 2. 3.	Freight tra Passenger Commuter	in train train	4. Wo 5. Sin 6. Cut	rk train 7. gle car 8.	Yard/sw Light lo Maint./i	ritching co(s). nspect.ca	A. S	Spec. MoV	V Equi	p. Code	54. Was E Attend	lquipi led? 'es	ment C 2 No $ $ 1	Code N/A	55. T	rain Nur	nber/Symbol /A
56. Speed (recorded	speed, if	available)	Code	58.	Method(s)	of Opera	tion ((enter	code(s)	that ap	oply)			58a. Rem	otely C	ontro	lled Loco	omotive?
R - Recordeda. ATCSg. Automatic blockm.Special instructions $0 = Not$ a remotely controlledE - Estimated0MPHN/Ab. Auto train controlh. Current of trafficn. Other than main track $1 = Remote control portable$																		

DEPARTMENT FEDERAL RAILF	OF TRA	NSPOR DMINIS	TATIO TRATI	ON ION	FRA FA	CTUAL	RAILR	OAD AC	CCIDENT REP	ORT	F	RA File	# <u>HQ-200</u>	8-36	
57. Trailing Tons (gross tonnage, excluding power units)					c. Auto train stop i. Time table/tr d. Cab j.Track warrant e. Traffic k. Direct traffic				 Desitive train controls Desitive train controls Other (Specify in Proceed) Code(s) 	ol <i>arrative)</i>	2 = Remo 3 = Remo transmit	ote contro ote contro ter - mor	ol tower ol re than one		
N/A					f. Interlocking 1. Yard limits				N/A N/A N/A	N/A N/A	remote c	N/A			
59. Principal Car/Unit a. Initial and Nur				lumber	b. Positio	on in Train	c. Load	led(yes/no)	60. If railroad emp	loyee(s) tes	ted for drug/alcohol use,				
(1) First involved (described struck atc) 0				0)	1	V/A	the appropriate	er that were box.	e positive in Alcohol			Drugs		
(2) Causing (if mechanical		,							61 Was this cons	ist transport	ting passengers? (Y/N)			N/A	
cause reported) 0		0	0			N						N/A			
62. Locomotive Units a. Head End b		b. Ma	Mid T anual	Train c. Remote	Rea d. Manual	r End c. Remote	63. Cars		Lo a. Freight	aded b. Pass.	c. Freig	Empty ht d. Pass.	e. Caboose		
(1) Total in Train		0		0	0	0	0	(1) Total in	n Equipment Consist	0	0	0	0	0	
(2) Total Deraile	d	0		0 0		0	0 0		Derailed	0	0	0	0	0	
64. Equipment Dama	age			65. Tra	. Track, Signal, Way,			66. Primary Cause			67. Contributing Cause				
This Consist		\$0.00	or of Ci	& S	tructure Dan	lage	\$0.00	Code		N/A	Code N/A				
68. Engineer/	69. Fire	men		70. Co	onductors	71. Brak	emen	72. Engin	eer/Operator	Lengui oi	73. Con	ductor			
Operators 0	54 P 11	0			0		0		Hrs 0 M	i O	70 W	Hrs		Mi 0	
Casualties to:	74. Railro	oad Empl	oyees	75. Tra	in Passenger	s 76. Othe	76. Other		Device? Yes 2 No 1	N/A	78. Was	EOT De Yes	vice Properly 2. No	Armed?	
Fatal		0			0		0		se Occupied by Crey	w?		10/24			
Nonfatal		0			0		0		1. Yes	2. No		N/A			
						OI	PERATIN	G TRAIN	1 #3						
80. Type of Equipme Consist (single en	80. Type of Equipment 1. Freight train 4. Work train 7. Yard/switching A. Consist (single entry) 2. Passenger train 5. Single car 8. Light loco(s).								Spec. MoW Equip. Code 81. Was Equipment Code Attended? N/A N/A N/A N/A						
83. Speed (recorded	speed, if a	vailable)	Code	6. Cut	of cars 9. Method(s) o	Maint./insp f Operatior	ect.car	r code(s) th	hat apply)	1. Tes .	85a. Remo	otely Cor	ntrolled Loco	motive?	
R - Recorded	R - Recorded a. ATCS g. Automatic H							olock ⁿ	n.Special instructions		0 = Not a	remotely	y controlled		
E - Estimated	E - Estimated N/A MPH 0 b. Auto train control h. Current of the							raffic ⁿ	 Other than main tra p. Positive train contr 	ol	1 = Remo	ote contro	ol portable		
84. Trailing Tons	84. Trailing Tons (gross tonnage, d. Cab c. Auto train stop i. Thie table?								p. Other (Specify in a	arrative)	3 = Remo	ote contro	ol		
excluding powe		e.	Traffic	k. 1	Direct traffi	c control	Code(s)		transmit	ter - mor	re than one				
		IN/A		1.	Interlocking	1. 1			N/A N/A N/A	N/A N/A				IN/A	
86. Principal Car/Unit a. Initial and Nu					b. Positio	on in Train	c. Load	led(yes/no)	87. If railroad empl	oyee(s) test er that were	ed for drug positive i	g/alcohol n	use,	Druge	
(1) First involved (derailed, struck,	etc)		0			0		N/A	the appropriate	e box.	positive		N/A	N/A	
(2) Causing (if mechanical 0					0	1	N/A	88. Was this cons	ist transport	ing passen	gers? (Y	/N)	N/A		
89. Locomotive Units a. Head				Mid 7	Frain	Rea	End	90. Cars		Lo	aded	I	Empty		
		End	b. Ma	anual	c. Remote	d. Manual	c. Remote			a. Freight	b. Pass.	c. Freig	t d. Pass.	e. Caboose	
(1) Total in Train	n	0		0	0	0	0	(1) Total ir	n Equipment Consist	0	0	0	0	0	
(2) Total Deraile	d	0		0	0	0	0	(2) Total E	Derailed	0	0	0	0	0	
91. Equipment Dama	age	\$0.00		92. Tra	ick, Signal, V	Vay,	\$0.00	93. Primar	y Cause Code	NT / A	94. Contr	ributing	Cause	NI/A	
	er of Ci	& St rew Me	mbers	age	\$0.00	Length of Time on Duty									
95. Engineer/	96. Fire	men		97. 0	97. Conductors 98. Brakemen				eer/Operator	0	100. Conductor				
Operators 0		0			0		0		Hrs 0 M	i 0	Hrs 0 Mi 0				
Casualties to:	101. Rail	01. Railroad Employees			Train	103. Oth	103. Other		104. EOT 105. Was EOT Device Properly						
Fatal		0			0		0		1. Yes 2. No N/A 1. Yes 2. No N/ 106. Caboose Occupied by Crew? <						
Nonfatal 0				0		0	1. Yes 2. No N/A								
	Highway User Involved								Rail	Equipmen	t Involved	d			
107. C. Truck-T	Frailer r	Bue	1	[Other	Motor Vab	cle	Code	111. Equipment							
A. Auto D. Pick-Up Truck G. School Bus K. Pedestrian B. Truck E. Van H. Motorcycle M. Other (spec in n						arrative)	J	1.Train(un 2.Train(un	1.Train(units pulling) 4.Car(s) (moving) 7.Light(s) (standing) 2.Train(units pushing) 5.Car(s) (standing) 8 Other (magific in parameter)					1	
108. Vehicle Speed		2	109.		geographic	cal)	Code	112. Position of Car Unit in							
(est. MPH at impact) 3 1.North 2.South 3.East 4.West 3								1							

DEPARTMENT OF TRANSPORTATION FRA FACTUAL RAILROAD ACCIDENT REPORT FRA File # HQ-2008-36 FEDERAL RAILROAD ADMINISTRATION FRA FACTUAL RAILROAD ACCIDENT REPORT FRA File # HQ-2008-36												<u>36</u>		
110. Position Code 113. Circumstance													Code	
1.Stalled o	1. Stalled on Crossing 2. Stopped on Crossing 3. Moving Over Crossing 1. Rail Equipment Struck Highway User													
4. Trapped	4. Trapped ³ 2. Rail Equipment Struck by Highway User													1
114a. Was the highway user and/or rail equipment involved Code 114b. Was there a hazardous materials release												Code		
In the impact transporting nazardous materials?											4			
1. Highway User 2. Kall Equipment 3. Both 4. Neither												<u> </u>		
114c. State here the name and quantity of the hazardous materials released, if any. N/A														
115. Type 1. Gates 4 Wig Wags 7. Crossbucks 10. Flagged by crew 116. Signaled Crossing Code 117. Whistle												Code		
Crossing 2.Cantilever FLS 5.Hwy. traffic signals 8.Stop signs 11.Other (spec. in narr.) (See instructions for codes) 1. Yes														
Warning 3.Standard FLS 6.Audible 9.Watchman 12.None 2. No														
Code(s)	08	N/A	N	I/A	N/A	N/A	N/A	N/A N/A 3. Unknown						2
118. Location of Warning Code 119. Crossing Warning Code 120. Crossing Illuminated by Street												Code		
1. Both Sid	les					with	h Highway Si	gnals Lights or Special Lights					hts	
2. Side of Vehicle Approach 1. Yes								I. Yes						
Opposit	e Side of Vehic	ele Appro	bach		1		2. No 3. Unknown		2 2. NO 3. Unknown					2
121.	122. Driver's	Gender	Code	123.	Driver Drov	ve Behind o	or in Front of	Code	124. Dri	ver				Code
Age	1. Male				and Struck o	r was Struc	k by Second	Frain	1. Dro	ve are	ound or thru the C	Gate	4. Stopped on Crossing	
31	2. Femal	e I	•		1. Yes	2. No	3. Unknowi	1	2. Stop	pped a	and then Proceede	ed :	5. Other (specify in	1
2 3. Did not Stop narrative)									narrative)	3				
125. Driver Pa	ssed	Cod	e 12	6. Viev	w of Track C	bscured by	(primary ob	struction)						Code
Highway V	ehicle	1		1. Pe	ermanent Str	ucture	Passi	ng Train 5. '	Vegetation		7. Other (spec	cify in r	uarrative)	
1. Yes 2. No	3. Unknown	2		2. St	tanding Railı	oad Equipi	ment 4. Topo	graphy 6. l	Highway Vel	nicle	8. Not obstructe	ed		8
Casualties to: Killed Injured 127. Dri							ver		Code		128. Was Driv	ver in th	ne Vehicle?	Code
1.						1. Kille	d 2.Injured 3.	Uninjured	Uninjured 2		1. Yes 2. No			1
129. Highway-Rail Crossing Users 1 1						130. Hig. (est.	nway venicie dollar damag	property Da	mage 9000	(<i>include driver</i>) (<i>include driver</i>)			g Users	
132. Locomotive Auxiliary Lights? Code 133. Locomotive Auxiliary Lights Operational?											Code			
1. Y	es	2.	No				1 1. Yes 2. No				1			
134. Locomotive Headlight Illuminated? Code 135. Locomotive Audible Warning Sounded?												Code		
1. Y	es	2.	No				1	1.	Yes		2. No			1

136. DRAW A SKETCH OF ACCIDENT AREA INCLUDING ALL TRACKS, SIGNALS, SWITCHES, STRUCTURES, OBJECTS, ETC., INVOLVED.



137. SYNOPSIS OF THE ACCIDENT

A northbound UP freight train collided with a sports utility vehicle at a private road-rail grade crossing on March 27, 2008, at 3:47 p.m., CDT. The accident occurred near Encinal, Texas at UP milepost 380.65 on the San Antonio Service Unit, Laredo Subdivision.

The passenger was killed and the driver was seriously injured. There were no injuries to the train crew. The leading locomotive sustained minor damages of about \$ 400.00, and there was no derailment.

At the time of the accident it was daylight, sunny and clear. The temperature was 95 degrees F.

The accident was caused by failure of the motor vehicle driver to yield to the train. According to the Texas Department of Public Safety, the driver failed to stop for the train.

138. NARRATIVE

CIRCUMSTANCES PRIOR TO THE ACCIDENT

The crew of UP Freight Train AMXASB-21 north included a locomotive engineer and a conductor. The crew went on duty at 12:30 p.m. CDT on March 27, 2008 in Laredo, Texas. This was the away from home terminal for both crew members and both received more than the required statutory off duty rest period prior to reporting for duty.

The assigned train consisted of two locomotives, 50 loaded and two empty rail cars. It was 5,509 feet long, and weighed 4,059 tons. The train was scheduled to travel from Laredo to San Antonio, Texas. The train crew performed an initial terminal train air brake test and departed the R.G. Run-around Track in Laredo, TX at about 1:30 p.m.

As the northbound freight train approached the accident area, the locomotive engineer was seated at the controls on the east side of the leading locomotive and the conductor was seated on the west side of the same locomotive.

The vehicle was a 2007 Dodge Durango with a female driver and an adult male passenger. They approached the highway-rail grade crossing from the west at an estimated 2-3 mph.

In this area of the railroad there is tangent track for 3 3/4 miles to the point of the accident, a 30 minute curve to the right for 450 feet and tangent track for 13 miles beyond. From the south there is a 0.29 percent ascending grade at the accident location. On the west side of the railroad a portion of the private road goes straight for approximately one mile and another portion of the road makes an almost ninety degrees turn to the right just west of the railroad crossing. The vehicle was traveling east from the straight side portion of the private road. The grade is practically level.

The railroad timetable and the geographical direction of the train are north.

THE ACCIDENT

UP TRAIN AMXASB-21:

UP Freight Train AMXASB-21 was being operated NORTHWARD at 49 mph approaching the accident area. The train crew first observed the vehicle about 1000 feet in advance of the crossing. The train crew saw that the vehicle was advancing from west to east at a slow speed and thought the vehicle was going to stop. When the engineer saw the vehicle continue rolling, he continued sounding the train horn and as he became aware of the impending collision, he initiated an emergency train air brake application.

The maximum authorized speed for freight trains on this portion of the railroad is 50 mph as designated in the current Union Pacific Timetable No. 3 for the San Antonio Area.

HIGHWAY VEHICLE:

The vehicle was a 2007 Dodge Durango Sports Utility Vehicle. It was traveling west to east on the private road from San Roman Ranch toward Interstate Highway 35. According to the locomotive engineer, conductor, and a border patrol agent who witnessed the collision, the vehicle was rolling slowly and did not stop before entering the crossing.

The train struck the passenger side of the vehicle near the rear door. The vehicle flipped over as a result of the impact and came to a rest 16 feet east of the track and 90 feet north of the crossing. The train came to a stop about 2,300 feet north of the crossing. The vehicle passenger was ejected from the vehicle however the driver was still restrained in the vehicle driver's seat.

After the train stopped, the engineer stayed in the locomotive and the conductor walked back to the crossing to render assistance and await the arrival of emergency response personnel.

A U.S. Border Patrol vehicle was traveling on a ranch road from east to west on the east side of Interstate Highway 35. The vehicle was occupied by two Border Patrol agents who reportedly witnessed the accident. As soon as they saw the collision, they turned on their emergency lights and crossed highway 1-35 to the accident site. One of the agents contacted his dispatcher to report the accident and to request emergency medical assistance. Both Border Patrol agents stayed at the accident site and rendered help.

The Laredo Fire Department arrived at the scene at 4:15 p.m. The Texas Department of Public Safety Officer arrived at the scene at 4:26 p.m. and a medical examiner arrived at the scene at 4:32 p.m. The vehicle driver was taken to Doctor's Hospital in Laredo with incapacitating injuries and the vehicle passenger who was ejected, was pronounced dead at the scene and transported to the Webb County Morgue in Laredo.

A UP Manager of Train Operations (MTO) arrived at the scene at about 4:30 p.m. after the driver had already been removed from the vehicle and was en route to the hospital. He ascertained the condition of the train and the track structure. There was no derailment, no hazardous materials involved, and there was only minor damage to the lead locomotive. The uninjured engineer and the conductor were relieved from duty and another train crew was called to operate the train onto San Antonio. The train departed from the accident scene at approximately 8:00 p.m.

ANALYSIS AND CONCLUSIONS:

ANALYSIS - TOXICOLOGICAL TEST:

The driver of the vehicle was a 31-year-old female. There was no alcohol or drug specimen taken from the driver. There was no evidence of intoxication at the accident site. There were no toxicological tests performed on the train crew.

CONCLUSION:

There was no evidence that intoxication was a factor.

ANALYSIS - HIGHWAY-RAIL GRADE CROSSING:

The highway-rail crossing at grade is a private road that goes to the San Roman Ranch. The crossing is equipped with stop signs on both sides of the crossing. This private road diverges from an access road on the west side of Interstate Highway 35. The railroad crossing is a sixteen-foot wide timber crossing that is located 66 feet west of the access road. There are no advance warning signs on this road. After the ranch road crosses the railroad it splits. One portion of the road takes a 90-degree turn to the right and the other portion continues practically straight after it crosses the railroad. There is a gate and a cattle guard located on the straight side portion of the road located 45 feet west of the railroad crossing. The stop signs located on each side of the crossing are both visible. When stopped at the stop sign a vehicle driver has a clear view of an approaching train.

The train crew's engineer and conductor both stated that the engineer began sounding the train horn when the train crew first observed the vehicle approaching the crossing. They estimated the train was about 1000 feet from the crossing. Both U.S. Border Patrol agents said they heard the train sounding the horn for a considerable distance prior to the collision.

CONCLUSION:

The crossing is in relatively good condition and has stop signs which are clearly visible. The view of an approaching train is visible and unrestrictive when a vehicle is stopped at the stop sign.

ANALYSIS - LOCOMOTIVE SAFETY DEVICES:

The leading locomotive was equipped with a headlight, the auxiliary lights, and the audible warning device required by Federal regulations. Post accident testing performed by the railroad at the accident site showed these devices functioned as intended. The auxiliary lights were damaged on impact.

CONCLUSION:

The locomotive safety devices were in full compliance with Federal requirements.

ANALYSIS - LOCOMOTIVE ENGINEER OPERATING PERFORMANCE:

The leading locomotive was equipped with a speed indicator and an event recorder, as required. The relevant event recorder data was downloaded by the UP MTO on the second locomotive at the accident site after UP railroad officials were unable to download the event recorder data from the lead locomotive because it was a Canadian National (CN) locomotive and the software was not compatible with UP equipment. The event recorder data from the lead locomotive was downloaded on April 3 at Sosan Yard in San Antonio in presence of UP managers after a representative from the CN railroad was flown to San Antonio to perform the download.

CONCLUSION:

The locomotive engineer was in compliance with all applicable railroad operating and train handling requirements and FRA regulations.

ANALYSIS:

FRA obtained fatigue related information for the 10-day period preceding this incident including the 10-day work history (on duty/off duty cycles) for all of the UP employees involved.

CONCLUSION:

Upon analysis of that information FRA concluded that fatigue was not probable for any of the employees.

OVERALL CONCLUSIONS

The railroad was in full compliance with its own rules and all applicable Federal standards. The two train crew members and the two U.S. Border Patrol agents were witnesses to the accident and they had no information

that could be used to determine why the vehicle failed to stop at the crossing.

PROBABLE CAUSE AND CONTRIBUTING FACTORS

The accident occurred because the driver of the vehicle failed to stop at the private highway-rail grade crossing and yield to the oncoming freight train.