

Federal Railroad Administration Office of Safety Headquarters Assigned Accident Investigation Report HQ-2008-48

Canadian National-North America (CN) Crystal Springs, MS May 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.

FEDERAL RAILR					FRA FA	ACTUA	L RAI	LROA	AD AC	CCID	ENT F	REPORT	Γ	I	FRA Fi	le#	HQ-200	8-48	
1.Name of Railroad C	Operating	Train #1						1a. Alpl	habetic	Code			1b.	Railroad A	cciden	t/Inci	dent No.		
Amtrak [ATK]									ATK					108129					
2.Name of Railroad C N/A	perating	Train #2						2a. Alpl		Code N/A			2b. I	b. Railroad Accident/Incident No. N/A					
3.Name of Railroad C N/A	Operating	g Train #3						3a. Alpl		Code N/A			3b. 1	b. Railroad Accident/Incident No. N/A					
A.Name of Railroad Responsible for Track Maintenance: Canadian National - North America [CN]									4a. Alphabetic Code CN					o. Railroad Accident/Incident No.					
5. U.S. DOT_AAR G				n Nun	ıber			6. Date of Accident/Incident					7. 7	7. Time of Accident/Incident					
					299	9824D			onth 05 Day 27 Year 2008				01:00: AM				√ F		
8. Type of Accident/In (single entry in cod		Derail Head of		ion	4. Side c 5. Raking	ollision g collision		8. RR	yy-rail crossing 10. Explosion-deton grade crossing 11. Fire/violent rupt						(desc.		in		ode 07
Cars Carrying		3. Rear er			6. Broke	n Train co	llision Cars Rele		struction		12. Other impacts				13. Div	ricion			
HAZMAT Damaged/Derailed N/A						HAZ	ZMAT	asing	N/A		12. People Evacuated						Central		
14. Nearest City/Town						15. Mile (to n	earest ter					17	. County	C.	ODIA				
10.75	Crys	stal Springs		(cina	la antmi)	Code		51.2	(: 1		N/A	MS		21 7		OPIA	ΛН		
18. Temperature (F) (specify if minus) 90 F 19. Visibility (single ent 1. Dawn 3.Dusk 2. Day 4.Dark					ısk	2	1. Clear 3. Rain 5.Sleet						1. M	1. Main 3. Siding			Code 1		
22. Track Name/Number							23. FRA Track Code Class (1-9, X) (gross tons in						25. Time Table Direction 1. North 3. East				(Code	
single n				main				4 <i>millions</i>) 23						2. South 4. West 2				2	
							OPER A					107 11	г .						
26. Type of Equipme Consist (single en	itry) 2.	. Freight tra . Passenger	train	5. Sin	gle car 8.	Yard/swi Light loc	o(s).	•	c. MoW	/ Equip	. Code	Atter	ided?	1	Code	28.	Train Nur		Symbol
					of cars 9.						2	1.	Yes	2. No	1		P0599		
29. Speed (recorded)	speed, if	available)	Code		Method(s)	-		nter co			oly) al instru	ections		31a. Rem				motiv	re?
R - Recorded E - Estimated 79 MPH R ATCS ATCS							g. Automatic block m.Special instructions n. Other than main track						0 = Not a remotely controlled 1 = Remote control portable						
				1	Auto trair	ı stop i.	Time tab	ole/train	orders (2 = Remo			ower		
30. Trailing Tons (excluding powe	-			e.	Cab Traffic	k. Direct traffic control Code(s) tra						transmi	3 = Remote control transmitter - more than one remote control transmitter						
		N/A			Interlocking		Yard lim	its		e	N/A N	I/A N/A	N/A	remote	control	trans	mitter		0
32. Principal Car/Unit	t	a. Initial a	and Nun	nber	b. Positio	on in Train	c. L	oaded _{(ye}	es/no)	1		employee(s		_		ol use	Alcohol		
(1) First involved (derailed, struck, e	etc)	A	TK 7			1	N/A				enter the number that were the appropriate box.				N.			+	rugs N/A
(2) Causing (if med cause reported)	chanicai)	l	0			0		N/A		34. V	Vas this	consist tran	sporti	ing passen	gers? (Y/N)			Y
35. Locomotive Unit	ts	a. Head End	l b. Man	Mid T ual ₁	rain c. Remote		ar End c. Rem	ote 30	36. Cars Loaded a. Freight b. Pass. c. Fr				c. Fre	Emp ight	oty d. Pass.	e. C	aboose		
(1) Total in Train	ı	1	0)	0	0	0	(1)) Total i	n Equip	ment Co	onsist	0	6	()	0		0
(2) Total Deraile		1	0)	0	0	0	(2)) Total I	Derailed	l		0	1	()	0		0
37. Equipment Dama This Consist	-	1,200,000.0	Λ I		ck, Signal, V cture Dama	-	\$65,028,00					40. Contributing Cause Code N/A							
Number of Crew Members														of Time on Duty					
41. Engineer/ Operators 2	42. Fir	remen	4	13. Co	nductors	44. Brakemen		45	5. Engin	•	erator			46. Conductor			20		
		0			2)			Hrs	2	Mi 10		Hrs 4 Mi 30					
Casualties to:	47. Railı	road Emplo	yees 48	3. Trai	n Passenger	s 49. Other		50. EOT Device?					51. Was EOT Device Properly Arm				Arm		
Fatal		0			0			1. Yes 2. No 1 52. Caboose Occupied by Crew?			ı		1. Yes 2. No 1						
Nonfatal		8			16		2		1. Yes 2. No									2	
						OI	PERAT	ING TI	RAIN	#2									
53. Type of Equipme Consist (single en	try) 2.	Freight tra Passenger	train 5	5. Sing	gle car 8.	Yard/swit Light loce	-	A. Spec	c. MoW	Equip	Code	54. Was		ment C	ode	55. T	Γrain Nun		ymbol
	3.	Commuter				Maint./ins	•				N/A	1.	Yes	2.110	N/A		N/		
56. Speed (recorded)	speed, if	available)	Code	1	Method(s)	•	,	nter co						58a. Rem	-			motiv	/e?
R - Recorded E - Estimated	N/A	МРН	N/A	1	ATCS Auto train	_	. Automa . Current		-	-	al instru than ma	ctions ain track		0 = Not a 1 = Rem					

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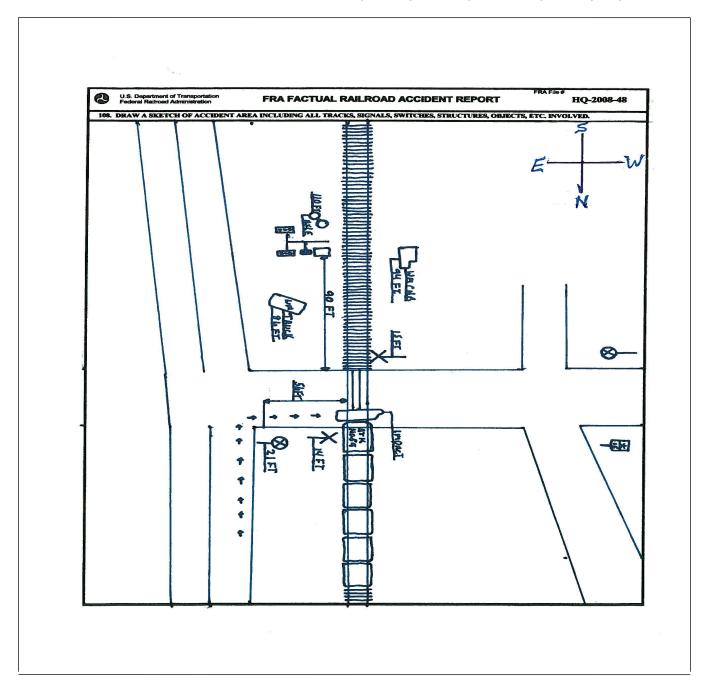
	OAD AE	I SIVIIIVI	KAII	ON						ORT				8-48	
57. Trailing Tons (gross tonnage, excluding power units) N/A				d. 0 e. 1	Auto train Cab Fraffic nterlocking	j.T k.	Time table/tr rack warran Direct traffic ard limits	t control p	. Positive train control. Other (Specify in Code(s)) N/A N/A N/A	2 = Remote control tower 3 = Remote control transmitter - more than one remote control transmitter N/A					
59. Principal Car/Unit	t	a. Initial	and Nu	ımber	b. Positi	on in Train	c. Load	ed(yes/no)	60. If railroad emp	•	,	_	se,		
(1) First involved (derailed, struck, e	etc)	,	N/A		N	'A	N	J/A	enter the numb the appropriate	n	Alcohol N/A	Drugs N/A			
(2) Causing (if med cause reported)			N/A		N.	'A	1	N/A 61. Was this consist tra			porting passengers? (Y/N) N/A				
62. Locomotive Unit	s	a. Head End	b. Ma	Mid Tr nual ₁	ain c. Remote		r End c. Remote	63. Cars		Lo a. Freight	aded b. Pass.	Em c. Freight		e. Caboose	
(1) Total in Train	1	N/A	N	I/A	N/A	N/A	N/A	(1) Total in	Equipment Consist	N/A	N/A	N/A	N/A		
(2) Total Derailed N/A N/			A	N/A	N/A	N/A	(2) Total D	erailed	N/A N/A		N/A	N/A	N/A		
				k, Signal, V		N/A	66. Primary Cause Code N/A			67. Contr Code	ributing Ca	use			
This Consist N/A Number of Cr			r of Cre		& Structure Damage			Code		N/A Length of		N/A			
68. Engineer/ 69. Firemen							kemen	72. Engine	eer/Operator	Lengur or	73. Conductor				
Operators N/	1	N/A			N/A		N/A		Hrs N/A M	i N/A	Hrs		10/11	Mi _{N/A}	
Casualties to:	74. Railro	ad Emplo	yees 7	5. Trair	n Passenger	s 76. Oth	er	77. EOT D					ce Properly Armed? 2. No N/A		
Fatal		N/A]	N/A	1	N/A	1. Y		N/A	1.`	N/A			
Nonfatal		NT/A			T / A		NY/A	79. Caboo	se Occupied by Crev						
Nomatai		N/A		I	N/A N/A			G TRAIN	1. Yes	2. No	N/A				
80. Type of Equipmen	nt 1 E	reight tra	in	4. Worl	train 7	Yard/swite				Was Equipn	nent Co	ode 82.	Train Nur	ber/Symbol	
Consist (single ent	ry) 2. F	Passenger Commuter	train	5. Singl	le car 8.	Light loco(s).	Spec. Wow		Attended?	LN	/A 62.	N/A	•	
83. Speed (recorded s					Method(s)	Maint./insp		r code(s) th	at apply)		- 1	tely Contro	olled Loco	motive?	
R - Recorded	1 , 5	,			ATCS	-	Automatic b	lock m	.Special instructions		0 = Not a	remotely co	ontrolled		
E - Estimated	N/A	MPH	N/A	1	Auto train o		Current of tr	ame	Other than main tra Positive train contra			te control p			
84. Trailing Tons (8	gross tonr	ıage,		1	Auto train Cab		rack warran	t control P	Other (Specify in	narrative)	3 = Remo	te control to te control	ower		
excluding power	units)				Fraffic		Direct traffic		Code(s)			ter - more t			
		N/A		f. I	nterlocking	1.Y	ard limits		N/A N/A N/A	N/A N/A	remote c	ontrol trans	mitter	N/A	
86. Principal Car/Unit	t	a. Initial	and Nu	ımber	b. Positi	on in Train	c. Load	ed(yes/no)	87. If railroad empl	oyee(s) test	ed for drug	/alcohol us	e,		
(1) First involved	.)		N/A		N	I/A]	N/A	positive ii	Drugs					
(derailed, struck, e									the appropriate		N/A N/A				
(2) Causing (if med			N/A		N	//A		N/A	88. Was this cons		ting passengers? (Y/N) N/A				
89. Locomotive Unit	s	a. Head End	b. Ma	Mid Tr			r End c. Remote	90. Cars		Lo a. Freight	aded b Pass	Em c. Freight	pty ld Pass	e. Caboose	
(1) Total in Train	ı	N/A	N/		N/A	N/A	N/A	(1) Total in	Equipment Consist	N/A	N/A	N/A	N/A	N/A	
(2) Total Derailed	1														
	.	N/A	N/	A	N/A	N/A	N/A	(2) Total D	erailed	N/A	N/A	N/A	N/A	N/A	
91. Equipment Dama	ı	N/A			N/A k, Signal, V		N/A	` '	erailed / Cause Code	N/A		N/A		N/A	
91. Equipment Dama This Consist	ı	N/A		2. Trac		Vay,	N/A	` '	/ Cause Code	N/A	94. Contr Code	ibuting Ca		N/A	
This Consist	ge	N/A Numbe	9	22. Trac & Struew Men	k, Signal, V ucture Dam nbers	Vay, age	N/A	93. Primary	/ Cause Code		94. Contr Code Time on D	ibuting Car			
	ge 96. Fire	N/A Numbe	9	22. Trac & Stro ew Men	k, Signal, V ucture Dam	Vay, age	N/A	93. Primary	/ Cause Code	N/A Length of	94. Contr Code	ibuting Car	use		
This Consist 95. Engineer/ Operators N/A	ge 96. Fire	N/A Number men N/A	r of Cre	22. Trac & Stro ew Men	k, Signal, V ucture Dam nbers onductors	Vay, age	N/A kemen N/A	93. Primary	r Cause Code	N/A Length of	94. Contr Code Fime on D	ributing Car uty iductor	use N/A	N/A Mi N/A	
95. Engineer/ Operators N/A	ge 96. Fire	N/A Number men N/A	r of Cre	92. Trac & Strn ew Men 97. Co	k, Signal, V ucture Dam nbers onductors	Vay, age 98. Bral	N/A kemen N/A	93. Primary 99. Engine 104. EOT 1. Y	v Cause Code	N/A Length of ' i N/A N/A	94. Contr Code Fime on D 100. Con	ributing Car uty iductor Hrs	use N/A	N/A Mi N/A	
95. Engineer/ Operators N/A Casualties to:	ge 96. Fire 101. Rails	N/A Number men N/A road Emp	r of Cre	92. Trace & Struck Men 97. Co	k, Signal, V ucture Dam nbers onductors N/A	Vay, age 98. Bral 103. Ott	N/A semen N/A ner	93. Primary 99. Engine 104. EOT 1. Y	v Cause Code	N/A Length of ' i N/A N/A	94. Contr Code Fime on D 100. Con	uty ductor Hrs	N/A ce Properl	N/A Mi N/A	
95. Engineer/ Operators N/A Casualties to: Fatal	ge 96. Fire 101. Rails	N/A Numbe men N/A road Emp	r of Cre	92. Trace & Strnew Men 97. Cc 1102. T	k, Signal, V ucture Dam nbers onductors N/A 'rain	Vay, age 98. Bral 103. Ott	N/A xemen N/A ner	93. Primary 99. Engine 104. EOT 1. Y	ver/Operator Hrs N/A M es 2. No ose Occupied by Cro	N/A Length of ' i N/A N/A ew?	94. Contr Code Fime on D 100. Con 105. Was	uty ductor Hrs EOT Devi	N/A ce Properl	N/A Mi N/A y N/A	
95. Engineer/ Operators N/A Casualties to: Fatal Nonfatal	ge 96. Fire 101. Rail	N/A Numbermen N/A road Emp	r of Cre	22. Trace & Struew Men 97. Co	kk, Signal, Vucture Dam nbers onductors N/A 'rain N/A J/A	98. Bral 103. Ott	N/A xemen N/A ner	93. Primary 99. Engine 104. EOT 1. Y	ver/Operator Hrs N/A M es 2. No ose Occupied by Cro 1. Yes Rail	N/A Length of ' i N/A N/A N/A 2. No Equipmen	94. Contr Code Fime on D 100. Con 105. Was 1. Y	uty ductor Hrs EOT Devi	N/A ce Properl 2. No	N/A Mi N/A y N/A	
95. Engineer/ Operators N/A Casualties to: Fatal Nonfatal	96. Fire	N/A Numbermen N/A road Emp	r of Cre loyees J.	22. Trace & Strnew Men 97. Co	k, Signal, Vucture Dam nbers onductors N/A 'rain N/A J/A	98. Bral 103. Ott	N/A Remen N/A ner N/A Code	93. Primary 99. Engine 104. EOT 1. Y 106. Cabo 111. Equip 1.Train(uni	ver/Operator Hrs N/A M es 2. No ose Occupied by Cro 1. Yes Rail ment 3.Train ts pulling) 4.Car(s	N/A Length of ' i N/A N/A N/A ew? 2. No Equipmen (standing) (moving)	94. Contr Code Time on D 100. Con 105. Was 1. Y	uty ductor Hrs EOT Devi	N/A ce Properl 2. No	N/A Mi N/A y N/A N/A Code	
95. Engineer/ Operators N/A Casualties to: Fatal Nonfatal	96. Fire 101. Raile	N/A Numbermen N/A road Emp N/A N/A Highwa Bus School I	r of Creation of C	22. Trace & Strnew Men 197. Co	k, Signal, Vucture Dam nbers onductors N/A 'rain N/A J/A	Vay, age 98. Bral 103. Od 1	N/A scemen N/A neer N/A N/A	93. Primary 99. Engine 104. EOT 1. Y 106. Cabo 111. Equip 1.Train(uni 2.Train(uni	cer/Operator Hrs N/A M es 2. No ose Occupied by Cro 1. Yes Rail	N/A Length of ' i N/A N/A N/A ew? 2. No Equipmen (standing) (moving)	94. Contr Code Time on D 100. Con 105. Was 1. This is the contraction of the contraction	uty ductor Hrs EOT Devi Yes	N/A ce Properl 2. No oving)	N/A Mi N/A y N/A N/A	

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	ENT OF TRA RAILROAD AI			FRAF	ACTU.	AL RAILR	OAD AC	CCIDE	ENT F	REPORT	F	RA File # <u>HQ-2008-</u>	48
110. Position						Code	113. Circu	mstance	:				Code
1.Stalled o 4. Trapped	n Crossing 2.St	opped o	n Crossing	3.Moving Ov	er Crossin) 3				x Highway User x by Highway Use	r		1
114a. Was the	highway user a	nd/or ra	il equipmen	t involved		Code	114b Ws	as there	a hazar	dous materials rele	2250		Code
in the im	pact transporting	g hazard	ous materia	ls?									1
1. Highway	User 2. Rail I	Equipme	ent 3. Both	n 4. Neither		4	1. High	way Us	er 2.	Rail Equipment	3. Both	4. Neither	4
114c. State he	re the name and	quantit	y of the haz	ardous materia	ıls release	d, if any. N/A							
115. Type	1.Gates		ig Wags			10.Flagged by	crew	116. Si	gnaled (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)	07	08	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 1. Both Sides with Highway Signals Lights or Special Lights										Code			
2. Side of							1. Yes						
3. Opposite Side of Vehicle Approach						2. No 3. Unknown			N/A 2. No 3. Unknown				2
121.	122. Driver's C	Gender	Code 123	3. Driver Drov		Code							
Age	1. Male					ck by Second		1. Drove around or thru the Gate 4. Stopped on Crossi 2. Stopped and then Proceeded 5. Other (specify in					
44	2. Female		1	1. Yes	2. No	3. Unknowr	2		. Did no		cueu .	narrative)	3
125. Driver Pa		Cod	e 126. Vi	ew of Track O	bscured b	y (primary ob	struction)	'					Code
Highway V	ehicle	1	1.1	Permanent Str	ucture	3. Passi	ng Train 5.	Vegetati	ion	7. Other (sp	pecify in n	arrative)	1
1. Yes 2. No	3. Unknown	2	2. 3	Standing Railr	oad Equip	ment 4. Topo	graphy 6.	Highwa	y Vehic	le 8. Not obstru	cted		8
Casualties	to:		Killed	Injured	127. Dr 1. Kille	iver ed 2.Injured 3.	Uninjured		Code	128. Was D 1. Ye		e Vehicle? 2. No	Code
129. Highway-Rail Crossing Users 0 2				2	1	ghway Vehicle t. dollar damaş	Property Damage 70000 131. Total Number of Highway-Rail Crossi (include driver) 2						g Users
132. Locomot	ive Auxiliary Li	ghts?				Code	133. Locor	motive A	Auxiliar	y Lights Operation	nal?		Code
1. Y	es	2. 1	No			1	1. Yes 2. No						1
134. Locomot	ive Headlight Ill	uminate	ed?			Code	135. Locor	motive A	Audible	Warning Sounded	1?		Code
1. Y	es	2. 1	No			1	1.	Yes		2. No			1

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



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137. SYNOPSIS OF THE ACCIDENT

On May 27, 2008, at 1:00 p.m., CDT, southbound Amtrak (ATK) Train P05991-26 struck a westbound Waste Management garbage truck at Hartley Lane/County Line Road, a non-signaled highway-rail grade crossing. The accident occurred in Crystal Springs, Copiah County, Mississippi (MS). The crossing is located at mile post (MP) 751.20 on the Canadian National (CN) Central Division of the McComb Subdivision. The crossing DOT/AAR No. is 299 824 D. The method of operation for the single Main Track is signal indication of a Traffic Control Signal System (TCS). The maximum authorized speed is 79 miles per hour (mph).

The male Waste Management truck driver was injured and admitted in the Intensive Care Unit under life support. The driver's male assistant was also injured and spent two weeks in the hospital, however he was sent home in stable but serious condition. Amtrak reported sixteen injuries to rail passengers. The injuries consisted of bruises and sprains. The passengers were treated at a medical facility and released. There were eight injuries sustained by six Amtrak employees on the train. The engineer, age 57, sustained a broken ankle. The conductor, age 53, and the assistant conductor sustained nose injuries. Two train attendants, ages 45 and 61, sustained shoulder injuries and one had a bruise to the head. An off duty train attendant, age 42, sustained a bruised knee and a lower back sprain.

The lead end of the lead locomotive derailed, along with the lead end of the last passenger coach car in the train. Emergency responders extinguished a fire on the lead locomotive. Total damages reported are \$1,200,000 for rail equipment and \$65,928 for signal and track structure. The Waste Management truck valued at \$75,000 was completely destroyed.

The accident occurred during daylight hours, the weather was clear, and sight distance was unlimited. The temperature at the time was 90 °F.

The probable cause of the accident was driver inattentiveness and the failure of the Waste Management garbage truck to yield the right of way to the approaching Amtrak passenger train.

138. NARRATIVE

CIRCUMSTANCES PRIOR TO THE ACCIDENT

On May 27, 2008, Amtrak Train P05991-26 (ATK 59) originated in Chicago, Illinois (IL). The train consisted of one locomotive, Number ATK 7, with one baggage car, one view-liner, one diner car, one lounge car, and two passenger coach cars for a total of six cars. At Chicago, IL, a Class 1 train air brake test was performed at 3:00 p.m. on May 26, 2008. ATK 59 departed Chicago en route to Jackson, MS, a crew change point and station stop. The new Amtrak crew boarded ATK 59, at Jackson, MS and consisted of a locomotive engineer, a manager of engines, a conductor, and an assistant conductor, with their home terminal being New Orleans, Louisiana (LA). The locomotive engineer reported for duty at Jackson, MS at 10:50 a.m. after receiving 17 hours and 13 minutes rest. The conductor reported for duty at Jackson, MS at 8:30 a.m. after receiving 12 hours and 38 minutes rest. The assistant conductor reported for duty at Jackson, MS at 8:30 a.m. after receiving 12 hours and 22 minutes rest. All the hours of service employees involved had received the required statutory off duty rest period.

Amtrak P05991-26 was traveling at 79 mph as it reached Hartley Lane highway-rail grade crossing on the single Main Track. The engineer was at the controls of the lead locomotive and the manager of engines was seated in the conductor seat of the lead locomotive. The conductor was in the diner car and the assistant conductor was in the view-liner car performing their normal duties.

The single Main Track is tangent with a 0.21 percent ascending grade approaching Hartley Lane. Hartley Lane highway-rail grade crossing is equipped with passive warning devices consisting of cross-bucks and stop signs located on both sides of the tracks. Mississippi Department of Transportation (MDOT) does not have a survey of highway user traffic information for this highway-rail grade crossing.

The CN timetable and the geographic direction for the train are south. Timetable directions are used in this report.

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THE ACCIDENT

AMTRAK PASSENGER TYRAIN P05991-26:

The engineer stated that he was at the controls of Locomotive ATK 7 on passenger Train P05991-26, traveling southbound on the CN Main Track approaching Hartley Lane at 1:00 pm. The train was traveling 79 mph, as recorded by the onboard event recorder of the lead locomotive (ATK 7). The maximum authorized speed for this line segment is 79 mph, as designated in the current CN Central Division Time Table. The engineer stated that he laid on the horn as he saw the Waste Management garbage truck pull in-front of the train. The engineer put the train in emergency, and he and the manager ducked their heads and braced for the collision. Amtrak Train P05991-26 was traveling southward toward the crossing; the garbage truck was traveling in an east to west direction across the crossing prior to impact.

WASTE MANAGEMENT GARBAGE TRUCK:

The Waste Management garbage truck was traveling westward across the crossing when ATK 7 struck the truck square in the large waste container. The force of the impact caused the truck to rotate clockwise 360 degrees and break into three pieces. The truck destroyed the stop signs, the cross-buck signs, and damaged an intermediate signal location device. The full waste container was separated from the truck and came to a rest on the east side of the tracks approximately 86 feet from point of impact. The lead locomotive stopped 2,200 feet south of the point of impact.

After the train stopped, the engineer made an emergency radio transmission and notified the CN Dispatcher of the accident. The CN Dispatcher contacted the local Police and Emergency Service personnel. The engineer, manager of engines, and the conductor were injured, so the assistant conductor remained aboard the train and attended to passenger needs. According to Copiah County Sheriff's Department, the two occupants of the truck were ejected. Copiah County Fire and Rescue responded and rendered emergency aid to the train employees and the passengers. A Copiah County Sheriff's Department Officer was notified at 1:02 p.m. and arrived at the scene at 1:12 p.m. Copiah County Fire and Rescue was notified at 1:00 p.m. and arrived at the scene at 1:13 p.m.

The six Amtrak employees were transported by emergency vehicles to a hospital in Jackson, MS. Sixteen passengers were transported to a nearby medical facility in Crystal Springs by ambulance, and the two Waste Management employees were transported by Life Flight to University Medical Center in Jackson, MS.

ANALYSIS AND CONCLUSION:

The garbage truck involved was a 2003 Mack MR-6 Rear-end-loader configured in order to transport residential waste. The container was almost full at the time of the accident. The operator is a male, age 44. The male passenger/helper riding in the truck passenger's seat was age 57. They were the only vehicle occupants.

No toxicological tests were performed on the highway users or the train crew members.

After the accident, Amtrak Mechanical personnel responded from the New Orleans Shop Facility at New Orleans, LA. The mechanical personnel made emergency repairs to allow Amtrak Passenger Train ATK 59 to be moved to Brookhaven, MS.

Hartley Lane is a two lane asphalt road 20 ft wide and runs in an east/west direction. The street has a posted speed limit of 15 mph and enters into a residential housing area with no other access. The highway-rail grade crossing is equipped with two stop signs and two cross-buck signs. The whistle posts are located on the railroad right-of-way 1,500 feet north and south of the crossing. There are no pavement stop bars. There are two crossing warning signs with one placed twenty-one feet east of the crossing and one placed 150 ft west of the crossing. A vehicle operator's sight distance at Hartley Lane grade crossing for east to west movement is 5,000 feet in either direction.

A Federal Railroad Administration (FRA) inspection of the highway-rail grade crossing did not reveal any conditions that would have contributed to the accident.

The lead locomotive was equipped with a headlight, auxiliary lights, and audible warning device as required by Federal Regulations. These devices were tested and found to be functioning properly at Chicago, IL, prior

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to departure. The lead locomotive was equipped with a speed indicator and an event recorder as required. The event recorder data was downloaded in New Orleans, LA, by Amtrak Mechanical personnel. The analysis disclosed that the engineer was in compliance with all railroad operating and train handling requirements.

ANALYSIS: - FATIGUE:

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 employees involved.

CONCLUSION:

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

PROBABLE CAUSE

FRA determined the probable cause of the accident was driver inattentiveness and the failure of the Waste Management garbage truck operator to yield the right of way to the oncoming Amtrak passenger train.

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