

Federal Railroad Administration Office of Safety Headquarters Assigned Accident Investigation Report HQ-2005-62

Amtrak (ATK)/Union Pacific (UP) Somis, California August 5, 2005

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 O FEDERAL RAILRO					FRA FA	ACTUA	AL RA	ILR	ROAD A	CCI	DENT I	REPO	RT	1	FRA Fi	le #	<u>HQ-200</u>	05-62		
1.Name of Railroad Oj Amtrak [ATK]	1a. Alphabetic Code 1 ATK					1b.	b. Railroad Accident/Incident No. 097694													
2.Name of Railroad Op						2b. F	b. Railroad Accident/Incident													
N/A	N/A						N/A													
3.Name of Railroad Re	3a. Alphabetic Code 3					3b.	b. Railroad Accident/Incident No.													
Amtrak [ATK]	ATK 5. Date of Accident/Incident 6.						097694													
4. U.S. DOT_AAR Gra	5. I		6. 1	Time of Accident/Incident																
	7458	384T			Month Day Year 08 05 2005				5	08:35: AM 🗸 F										
7. Type of Accident/In	ndicent	1. Derail	ment		4. Side collision									on-detonation 13. Other						
(single entry in code	e box)	2. Head of	on coll	lision					8. RR grade crossing 11. Fire/viole					ent rupture (describe in narrative)						
		3. Rear e	nd col	llision	sion 6. Broken Train collision				9. Obstruction 12. Othe				mpacts		narra	uve)		07		
8. Cars Carrying 9. HAZMAT Cars									g 11. People Evacuated					12. Division				1		
HAZMAT 0 Damaged/Derailed			ed	d 0 HAZMAT				0				0			os Angel	es				
13. Nearest City/Town	<u>י</u>				14. Milepost					tate 11 G 1 1			16. County							
Torritourost only, Town	•	Cama	rillo		(to nearest te				416.6		Abbr Code N/A CA			5	VENTURA					
17. Temperature (F)		18. Visit	vility	(sin	(single entry) Code 19. V					4				20 T	f Thur -1-			Cod	1.	
(specify if minus)			Dawn						ar 3. R	-	,, Coue				pe of Track Iain 3. Siding			Cou	le	
63	63 F 2. Day				Dark	. Clo	udy 4. Fe	og	I .					rard 4. Industry		1	1			
21. Track Name/Number							Code		23. Annual Track Density				ne Table Directio			Cod	le			
Ma				Aain		Class (1-9, X) (gross tons in millions)							10	1. North 3. East					2	
OPERATING TRAIN #1 25. Type of Equipment 1. Freight train 4. Work train 7. Yard/switching A. Spec. MoW Equip. Code 26. Was Equipment Code 27. Train Number/Symbol																				
25. Type of Equipment 1. Freight train 4. Work train 7. Yard/switching Consist (single entry) 2. Passenger train 5. Single car 8. Light loco(s).														ended?				noei/syn	11001	
3. Commuter train 6. Cut of cars 9. Maint./inspect.car 2 1. Yes 2. No 1 796(5)												(5)								
28. Speed (recorded speed, if available) Code 30. Method(s) of Operation (enter code(s) that apply) 30a. Remotely Controlled Locomotive?																				
R - Recorded a. ATCS g. Autor											becial instru ther than m		k	0 = Not a 2 converte v do Wested 1 = Remote control portable						
E - Estimated 64 MPH R c. Auto train control h. Curren c. Auto train stop i. Time t									rain orders					2 = Remote control portable						
29. Trailing Tons (gross tonnage, d. Cab j.Track									nt control	p. O	.1	ify in na								
excluding power	units)	e					raffic control Code(s						transmitter - more than one							
N/A f. Interlocking 1.Yard limits e g N/A N/A N/A remote control transmitter 0																				
31. Principal Car/Unit		a. Initial	and N	umber	b. Positio	on in Train	n c. l	Load	ed(yes/no)	32.	If railroad	employ	ee(s) test	ed for drug	g/alcoho	l use,	,			
(1) First involved		1				yes					positive i	n		Alcohol	Drug					
(derailed, struck, et			N/A						J	_	the appro	-					N/A	N/A	4	
(2) Causing (if mech cause reported)		N/A				N/A 33. Was this co			consist	transport	ing passen	Y/N)		Y	7					
				Mid '	Mid Train Rear Er				35. Car	-e			Lo	ade		Empty				
		End	b. M	anual	c. Remote	d. Manua	l c. Rei	mote	55. Cu	.5			a. Freight	b. Pass.	c. Frei	ight	d. Pass.	e. Cabo	ose	
(1) Total in Train		0		0	0	0	1		(1) Total	l in Eq	uipment C	onsist	0	5	0		0	0		
(2) Total Derailed		0		0	0	0	0		(2) Total	1 Dera	iled		0	1	0	,	0	0		
36. Equipment Damag		0	ļ	-	-		0						0					0		
This Consist 520000					ack, Signal, V Structure Da		38. Prim Code	302	39. Contributing Cause Code N/A											
This Consist 52000 & Structure Damage 0 Number of Crew Members									Length of Time on Duty											
40. Engineer/	0. Engineer/ 41. Firemen				42. Conductors 43. Brakemen				44. Engineer/Operator					45. Conductor						
Operators N/A 0					1		1		Hrs 8			Mi 50			Н	rs	9	Mi 0)5	
Casualties to: 4	46. Railr	ailroad Employees 47			Train Passengers		48. Other		49. EOT D		Device?			50. Was EOT Device Properly A				Armed?	?	
Fatal												2. No 2			Yes 2. No			N/2		
Fatal 0			0 0			51. Caboose Occupied by Crew?														
Nonfatal		N/A			0		2		1. Yes									N/A	Ą	
						0	PERAT	ΓIN	G TRAIN	N #2										
52. Type of Equipment 1. Freight train 4. Work train 7. Yard/switching A. Spec. MoW Equip. Code 53. Was Equipment Code 54. Train Number/Symbol																				
Consist (single entry) 2. Passenger train 3. Commuter train					5							A	ttended?				N/.	4		
55 Smood						Maint./in	•			41- 1	N/A		1. Yes	2.10		ont.				
55. Speed (recorded speed, if available) Code 57. Method(s) of Operation R - Recorded a ATCS g Auto								`	tic block m.Special instructions						57a. Remotely Controlled Locomotive? 0 = Not a remotely controlled					
E - Estimated		. ATCS 5. Auto train o							1 = Remote control portable											
I		1																		

DEPARTMENT FEDERAL RAILE					FRA F.	ACTUA	L RAILR	.OAD AC	CIE	DENT I	REPO	ORT	F	RA File #	<u>HQ-200</u>	<u>5-62</u>	
56. Trailing Tons (gross tonnage, excluding power units)					. Auto trai Cab Traffic	j.] k.	Frack warran Direct traffi	it control 1	 Positive train control Other (Specify in narrative) Code(s) 				2 = Remo 3 = Remo transmit remote c	N/A			
58. Principal Car/Unit a. Initial and Nu					Interlockin	g I.: ion in Trair	Yard limits	led(yes/no)		I/A N/A N/A N/A N/A N/A							
(1) Eight involved					0. FOSI	N/A			59.1	59. If railroad employee(s) tested for drug/alcohol use, enter the number that were positive in						Drugs	
(derailed, struck, etc) 0						N/A		N/A	the appropriate box.				-	N/A			
(2) Causing (if mechanical cause reported) 0						N/A		N/A	60. Was this consist transporting passengers? (Y/N)							N/A	
61. Locomotive Units	8	a. Head End	b. M	Mid Ianual _I	Mid Train		ar End	62. Cars						pty d. Pass.	e. Caboose		
(1) Total in Trai	(1) Total in Train 0		0 0		0	0	(1) Total in	(1) Total in Equipment Consist			0	0	0	0	0		
(2) Total Deraile	ed 0		0 0		0	0	(2) Total Derailed				0	0	0	0	0		
63. Equipment Damage 6 This Consist 0					ack, Signal, Structure D		0	65. Primar Code					use	N/A			
			er of C	Crew Me				Length of Time on Duty									
67. Engineer/ Operators N/	68. Fire	emen N/A		69. Co	nductors N/A		akemen N/A	71. Engineer/Operator 72. Conductor Hrs 0 Mi 0						ductor Hrs	0	Mi 0	
Casualties to:	73. Railr	oad Empl	oyees	74. Tra	in Passenge	ers 75. Oth	ner	76. EOT Device?					77. Was	Armed?			
Fatal		0			0		0		1. Yes 2. No N/A 1. Yes 2. No 78. Caboose Occupied by Crew?							N/A	
Nonfatal		0			0		0	70. Cubbe		Yes	y ciew	2. No				N/A	
		Highw	ay U	ser Inv	olved				Rail Equipment Involved								
79. Type C. Truck- A. Auto D. Pick-U	nicle	Code	3.Train (standing) 6.Light Loco(s) (moving) 1.Train(units pulling) 4.Car(s) (moving) 7.Light(s) (standing)														
B. Truck E. Van 80. Vehicle Speed	narrative) ical)	B Code	Code 84. Position of Car Unit in Train														
(est. MPH at in	4.West	3	1 85. Circumstance								~ .						
82. Position 1.Stalled on Cros	r Crossing	Code 85. Circumstance 1. Rail Equipment Struck Highway User 2. Rail Equipment Struck by Highway User								Code							
4. Trapped 86a. Was the highway user and/or rail equipment involved							Code				-	erials releas				1 Code	
in the impact tr			1 High	way I	lear 2	Dail E	auinment	3 Both	4 Naitha	r	4						
1. Highway User 2. Rail Equipment 3. Both 4. Neither 4 1. Highway User 2. Rail Equipment 3. Both 4. Neither 86c. State here the name and quantity of the hazardous materials released, if any. 3. Both 4. Neither														4			
obe. State here the ha	nie and qu	antity of	the na	zaruous	materials is	cicased, ii a	N/A										
***	7.Cross als 8.Stop	signs 11	.Flagged by .Other (spec			•		g Warning for codes)	Code	89. Whise 1. Yes	s	Code					
	Warning 3.Standard FLS 6.Audible Code(s) 08 N/A N/A				9.Watc		None	NI/A					1	2. No 3. Un	known	2	
90. Location of Warn		N/A	1 N /.	n	N/A Code	N/A 91. Crossin	N/A ng Warning	N/A Interconnect	ed	Code	92. (Crossing Illu	I Iminated h	y Street		Code	
1. Both Sides	with	Highway Sig . Yes						pecial Lig	Code								
2. Side of Vehicle Approach 3. Opposite Side of Vehicle Approach							. No Unknown		2		2. No 3. Unknown				2		
					iver Drove	ain Code 96. Driver							Code				
Age 1. Male 34 2. Female 1					and Struck or was Struck by Second T1. Yes2. No3. Unknown											g 3	
97. Driver Passed Standing Uicknew Vakiele Code 98. View of Track Obscured by							(primary ob	struction)								Code	
Highway Vehicle 1. Permanent Structure 3. Passing Train 5. Vegetation 7. Other (specify in narrative) 1. Yes 2. No 3. Unknown 2 2. Standing Railroad Equipment 4. Topography 6. Highway Vehicle 8. Not obstructed														8			
101. Casulties to Highway-Rail 99. D						99. Driver		J 1 J J.	0	Code		100. Was E		Code			
					-	Uninjured Property Da	mage	2	_	1. Ye		2. No Highway-	Rail Cross	1 ing Users			
104 L		1-4-9	0		2	(est. c	lollar damag			0			le driver)		2	_	
104. Locomotive Aux 1. Yes	unary Lig	hts? 2. N	0			I	Code 1		notive Yes	e Auxilia	ry Ligł	nts Operatio 2. No	nal?			Code	
106. Locomotive Hea		Code	107. Locomotive Audible Warning Sounded?						1 Code								
1. Yes		1	1.	Yes			2. No				1						

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

109. SYNOPSIS OF THE ACCIDENT

At 8:35 p.m. PDT, August 5, 2005, southbound Amtrak (ATK) passenger train 796 in a cab car forward operation struck a dump truck at a private highway-rail grade crossing. The accident occurred in Somis, California, milepost 416.6 on the Union Pacific Railroad (UP) Los Angeles Area, Santa Barbara Subdivision.

The method of operation is Traffic Control System. The maximum timetable speed is 70 mph for passenger trains and 60 mph for freight trains.

There were a total of five injuries: two occupants of the truck and three train crew members. There were no hazardous materials involved. Estimated equipment damage is \$520,000 to the cab car and it derailed. The dump truck was destroyed.

At the time of the accident, it was dark and clear with a temperature of 63 degrees Fahrenheit.

The accident was caused by the failure of the dump truck driver to yield to the oncoming train. According to the California Highway Patrol, the driver failed to stop his vehicle at a posted stop sign at the railroad crossing.

110. NARRATIVE

The following information was obtained from an investigation that was conducted by the Federal Railroad Administration.

Circumstances Prior to the Accident

The crew of Amtrak 796 South included a locomotive engineer, a conductor, and an assistant conductor. The conductor was called to report for duty at 11:30 a.m. PDT, on August 5, 2005 at his home duty station in Los Angeles, CA. The engineer and assistant conductor were called to report at 11:45 a.m. PDT, on August 5, 2005 at their home duty station in Los Angeles, CA. All had received the statutory off duty period prior to reporting for duty.

Their assigned passenger train consisted of five cars including the lead control cab car and one rear locomotive. The train ran on a scheduled route beginning at Paso Robles to San Diego, CA. The trip was uneventful and a normal run before approaching the accident area. The route included several stops including a stop at the Camarillo station prior to the accident.

As the train approached the accident area, the locomotive engineer was seated at the controls at the right side of the control cab car, number C6952. The conductor was in the café car talking to the on-board services employee. The assistant conductor was in the upper portion of the café car standing behind the last seat and in front of the sliding door when he heard the train go into emergency.

In this area of the railroad there are, in succession, a one percent ascending grade leveling to a zero percent grade from milepost 416.4 to the impact area at milepost 416.6. The accident occurred on tangent track.

The railroad timetable direction of travel is north to south but is geographically opposite. The geographic direction of travel of the vehicle is west to east. Timetable directions are used throughout this report in reference to the train movement and in crew statements. However, it is important to note that the dump truck crossed in front of the locomotive in a geographically eastward direction, that is, from left to right relative to the locomotive engineer's line of sight. Correlating the direction of travel with the railroad's reports, crew statements and police report appear to conflict but, in reality, are in agreement.

The maximum authorized speed for this train was 70 mph, as designated in the current UP Timetable.

The Accident

Amtrak 796 South

As the train approached Hagle Tree Farm Road, a private grade crossing, the engineer said the train was traveling 64 MPH when he observed a dump truck attempting to cross the tracks in an westward (timetable) direction; police reports indicate a geographic eastward direction. As the train approached the crossing, he sounded both the whistle and bell in an attempt to alert the driver. When he determined that a crash was imminent, he immediately placed the train in emergency braking. He left the controls and started moving to the back end of the lead car toward the passenger compartment and threw himself to the floor. Seconds later, the train struck the loaded dump truck which was still crossing the tracks.

Dump Truck

The truck was traveling geographically eastward and was following a row of trucks en route to a designated dumping area. The driver stated he was moving at about 5 MPH but was unsure if he had stopped at the stop sign. He claimed he didn't see or hear the train prior to the collision.

FRA FACTUAL RAILROAD ACCIDENT REPORT

The train struck the right rear side of the dump truck. After impact, the truck spun around and landed approximately 100 feet from the point of impact. The cab car's first set of wheels derailed and the unit continued for approximately one-half mile before coming to a stop near milepost 417.

Post-Accident Actions and Injuries

After the train stopped, the engineer noticed he had sustained some scrapes on his arms and knees. The conductor called the engineer, who did not respond. He then called the assistant conductor and directed him to go into the cab car to check on the engineer's condition. The conductor attempted to contact the train dispatcher via radio but was unable to do so. He then called the dispatcher on the company cell phone and made notification. The engineer and conductor began to check on passengers, advised them to keep calm and to start evacuating the train. A bystander called 911 and emergency crews arrived within minutes to treat the injured passengers.

The engineer was treated and released at the site. The conductor and assistant conductor were also injured. The conductor sustained injuries after hitting a cabinet door and was taken to Simi Valley Hospital (SVH) for treatment and was released. The assistant conductor sustained injuries after hitting a sliding door and was taken to Ventura County Medical Center (VCMC) for treatment and was released. The truck driver and his passenger sustained injuries requiring hospital care. Sixteen train passengers were taken to local hospitals around the region where they were treated and released. Since there was no treatment beyond first aid, these were not FRA-reportable.

The dispatcher notified Amtrak's Road Foreman of Engines and Union Pacific's Superintendent of Operations of the accident. After their arrival, Amtrak dispatched another passenger train to milepost 417 to transfer the passengers and continue on to Los Angeles and San Diego.

Analysis and Conclusions

Analysis

The driver of the truck was a 34-year old male. The passenger was a 29-year old female.

The grade crossing is a private road crossing with posted private stop signs. There is no active warning system.

The railroad has a whistle post in place about 1350 feet timetable north of the crossing. The lead cab car is equipped with front headlights, auxiliary lights and the audible warning devices required by Federal regulations. The front headlights were broken from the impact.

Conclusions

The Amtrak train was in full compliance with its own operating rules and all applicable Federal standards. The train engineer was the only witness to the accident.

Probable Cause

The accident was caused by the failure of the dump truck driver to yield to the oncoming train. According to the California Highway Patrol, the driver failed to stop his vehicle at a posted stop sign at the railroad crossing.