

Federal Railroad Administration Office of Safety Headquarters Assigned Accident Investigation Report HQ-2006-32

Union Pacific (UP)
Dingle, Idaho
May 20, 2006

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.

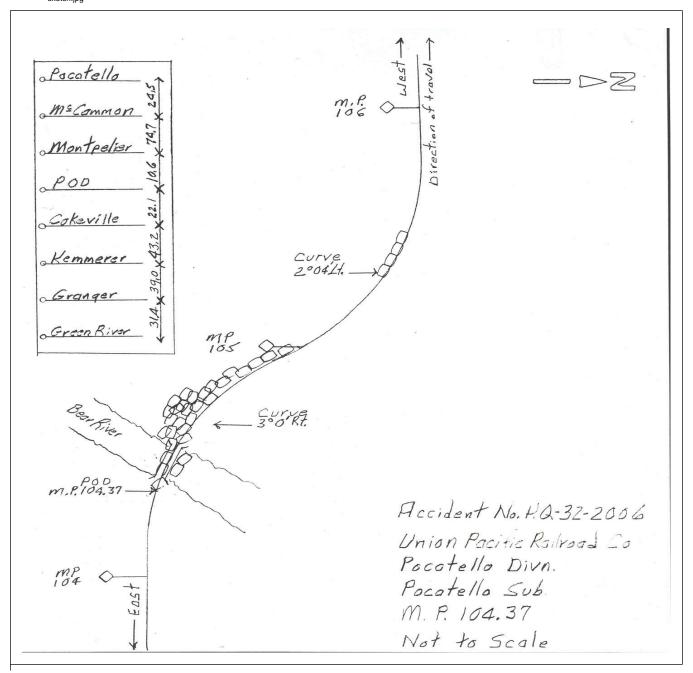
FEDERAL RAILRO					FRAFA	ACTUA	LRA	ILF	ROAD A	CCI	DENT I	REPOR	Т		FRA F	ile#	HQ-20	06-32	;	
1.Name of Railroad Ope	rai i i i piacette code					1b. 1	o. Railroad Accident/Incident No.													
Union Pacific RR Co.	UP						0506PC013													
2.Name of Railroad Ope		•					2b. R	2b. Railroad Accident/Incident												
N/A		N/A						N/A Bb. Railroad Accident/Incident No.												
3.Name of Railroad Resp								Kaiiroad A			ient No.									
Union Pacific RR Co. 4. U.S. DOT_AAR Grad		UP						ime of A	0506P0		nt									
4. 0.5. DO1_11110 GIAC		5. Date of Accident/Incident Month Day Year						6. Time of Accident/Incident												
									05 20 2006					01:14: ☐ AM 🗸 PM						
7. Type of Accident/Indicent 1. Derailment 4. Side collision									7. Hwy-rail crossing 10. Explosion-detonation 13. Other											
(single entry in code	llision	8. RR grade crossing 11. Fire/violent rupture (describe in narrative) 9. Obstruction 12. Other impacts 01																		
8. Cars Carrying HAZMAT 0). HAZMA Damaged/I			0	10. Cars Releasin HAZMAT			0		11. People Evacuated			0	12. Div	2. Division Pocatello				
13. Nearest City/Town		14. Milepost					15 S	5. State			16. County									
·	est City/Town Montpelier					(to nearest			04.37	13. 5	Abbr Code N/A ID			. County	BEA	BEAR LAKE				
17. Temperature (F)		18. Visib	•	_				Weather (single en							pe of Track			•	Code	
(specify if minus) 1. Dawn 75 F 2. Day					3.Dusk 4.Dark ²				1. Clear 3. Rain 5.Sleet 2. Cloudy 4. Fog 6.Snow				l		Siding Industry		1	1		
21. Track Name/Number	r			22. FRA Track			Track				3. Annual Track Density								Code	
Single Ma					ack	Clas	Class (1-9, X) (gross tons in millions) 53.						.4	1. North 3. East 4						
							OPER	AT.	ING TRA	IN#	1			•						
25. Type of Equipment		Freight tra				. Yard/swi	_	A	. Spec. Mo	W Equ	uip. Code			ment	Code	27. 1	Train Nu	mber/	Symbol	
Consist (single entry) 2. Passenger train 5. Single car 8. Light lo										A			ended? . Yes 2. No		1 IDU		CE			
20 G 1		Commuter				. Maint./in			1 ()	.1 .		1.	Yes	2. No 30a. Ren		<u> </u>				
28. Speed (recorded spe	eed, if a	available)	Code		Method(s)	•	on (. Autom		er code(s) block		appıy) ecial instru	ections						omon	ve?	
h Auto train control h Curr											0 = Not a2 control of the lead 1 = Remote control portable									
c. Auto train stop i. Time table/trai																trol to				
29. Trailing Tons (gross tonnage, d. Cab j.Track									nt control	itive)	3 = Remote control									
									ic control		Code	(s)			itter - m control					
		4031	l	f.	Interlocking	g l.	Yard lin	nits		e	N/A N	I/A N/A	N/A	Telliote	Control	uansı	muei	0)	
Principal Car/Unit		a. Initial a	and Nu	mber	b. Position	on in Train	c. 1	Load	ed(yes/no)	32.	If railroad				_	ol use,				
(1) First involved]	N/A			46			yes		enter the		positive		Alcohol	. [Drugs			
(derailed, struck, etc)									the appropriate box. 0 0 33. Was this consist transporting passengers? (Y/N)									0		
(2) Causing (if mechanical cause reported)					N/A				N/A 33. Was this con-				nsporti	ing passer	ngers? (Y/N)		1	N	
34. Locomotive Units a. Head				Mid T			Rear End I. Manual c. Rer		35. Cars		a. Fı			ade b. Pass.	Empty c. Freight d. Pass		-	[_C	aboose	
(1) Total in Train		End 3	b. Mai	0	c. Remote	0	0 C. Kei			in Eq	uipment C		95	0.1 ass.	0.110		0	0.0	0	
(2) Total Derailed					0				(2) Total		•		41			$\overline{}$	-			
36. Equipment Damage	- -	0		0	0	0	0						41	0)	0		0	
This Consist		392002	3		ck, Signal, V Structure Da	•	32893	5	38. Prima Code	агу Са	iuse	T111		39. Con Code	unouting	g Caus	se	N/A		
This Consist		image								Time on I	ime on Duty									
40. Engineer/	41. Fire				Members 2. Conductors 43. Brakemen				44. Engineer/Operator					45. Conductor						
Operators N/A	71.1110	0 1 43. Bi				0			Hrs	•					Irs	5	Mi	29		
	5. Railr	oad Employees 47. Train Passengers 48. Other				Other		49. EOT Device?					50. Was EOT Device Properly Armed?					ed?		
Fatal		0 0				0	1. Yes 2. No 1						1. Yes 2. No 1							
									51. Caboose Occupied by Crew			Crew?						·		
Nonfatal N/A			0 0				1. Yes 2. No					N/A								
								ΓIN	G TRAIN	#2										
52. Type of Equipment	•	Freight trai				Yard/swit	-	A.	Spec. MoV	V Equ	iip. Code	53. Was		ment (Code	54. T	rain Nu	mber/S	Symbol	
Consist (single entry)						Light loco(s). Maint./inspect.car			1				nded? Yes 2. No N/A			N/A				
55 Speed (1 1							•		r anda(a)	thet :	N/A	1.	Yes	2.110		ontro			vo?	
55. Speed (recorded speed, if available) Code R - Recorded R - Recorded R - Recorded R - Recorded								enter code(s) that apply) atic block m.Special instructions						57a. Remotely Controlled Locomotive? 0 = Not a remotely controlled						
E - Estimated 0 MPH N/A a. ATCS g. b. Auto train control h.											1 = Remote control portable									

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DEPARTME FEDERAL RA						FRA F	ACTUA	L RAIL	ROAD AC	CCIE	ENT I	REPO	ORT	F	RA File #	HQ-200	6-32			
56. Trailing Tons (gross tonnage, excluding power units)						c. Auto train stop d. Cab j.Track warran e. Traffic k. Direct traffic f. Interlocking l. Yard limits				Code(s)					2 = Remote control tower 3 = Remote control transmitter - more than one remote control transmitter					
58. Principal Car/Unit a. Initial and Nu										59. If railroad employee(s) tested for drug/alcohol use,							1			
(1) First involved 0							N/A		N/A		enter the number that were positive in Alcohol I									
(derailed, struck, etc)									IV/A		the appr	opriate	box.		N/A	N/A				
(2) Causing (if mechanical cause reported)							N/A		N/A	60. Was this consist transporting passengers? (Y/N)							N/A			
61. Locomotive	Locomotive Units a. Head End b			b. M	Mid ' Ianual	Train c. Remote	Rear End d. Manual c. Remote		62. Cars				Lo a. Freight	ade b. Pass.	d. Pass.	e. Caboose				
(1) Total in Train			0		0	0	0	0	(1) Total i	n Equipment Consist 0			0	0	0	0	0			
(2) Total De	(2) Total Derailed		0	0 0		0	0		(2) Total I	Derailed 0				0	0	0	0			
	3. Equipment Damage This Consist 0					ack, Signal, Structure D		0	65. Prima Code	65. Primary Cause Code ON/A Code Code Code						iuse	N/A			
			Numbe	er of C	rew Me	mbers					1		Length of			I				
67. Engineer/		3. Firen			69. Co	nductors	70. Bi	rakemen	71. Engin	71. Engineer/Operator 72. Conductor Hrs 0 Mi 0 Hrs 0							Mi o			
Operators	N/	N/A				N/A		N/A		Hrs	0	Mi	i 0		Mi 0					
Casualties to:	73.	Railro	ad Empl	oyees	74. Tra	in Passenge	rs 75. Ot	75. Other		76. EOT Device? 1. Yes 2. No N/A					77. Was EOT Device Properly A					
Fatal			0			0		0			2. No		N/A	1.	N/A					
Nonfatal			0			0		0			cupied b Yes				N/A					
				ay U	ser Inv					1. Yes 2. No Rail Equipment Involved										
79. Type	uck-Traile	or F	D.		I Other	. M-4 XI-1	1.1.	83. Equip	83. Equipment											
A. Auto D. Pio	ck-Up Tru	uck G.	. School	Bus	K. Pede	Motor Veh strian er (spec. in		N/A	ode 3. Equipment 3. Train (standing) 6. Light Loco(s) (moving) 1. Train(units pulling) 4. Car(s) (moving) 7. Light(s) (standing) 2. Train(units pushing) 5. Car(s) (standing) 8. Other (specify in narrative)											
80. Vehicle Spe		N/A			geograph		Code	_	84. Position of Car Unit in Train											
(est. MPH	1.No	orth 2.Se	outh 3.East	4.West		N/A														
82. Position 1.Stalled on	Crossing	Cross	ing 3 N	loving Ove	r Crossina	Code 85. Circumstance 1. Rail Equipment Struck Highway User									Code					
4. Trapped	sing J.iv	loving Ove	Clossing	N/A 2. Rail Equipment Struck by Highway User									N/A							
86a. Was the hi		olved		Code	86b. Was	here a	hazardo	us mat	erials releas	se by			Code							
in the impa 1. Highway U	-	_				4. Neither		N/A	1. High	way U	Jser 2.	Rail E	quipment	3. Both	4. Neithe	r	N/A			
86c. State here th							eleased, if	•	I											
								N/A												
	 Gates Cantiley 	ver FL		g Wag		7.Cross als 8.Stop		0.Flagged b 1.Other (sp	y crew ec. in narr.)		_		g Warning for codes)	Code	89. Whis 1. Ye		Code			
Warning 3.Standard FLS 6.Audible						9.Watc							2. No							
Code(s)	N/A	N	I/A	N/	A	N/A	N/A	N/A	N/A					N/A		IIWUIIAI	N/A			
1. Both Sides							with	Highway S	g Interconnect Signals	ed	Code	l .	Crossing Illu Lights or S		Code					
Side of Vehicle Approach Opposite Side of Vehicle Approach						NI/A		1. Yes 2. No		ı	NT/A		1. Yes 2. No		N/A					
						N/A	3		N/A 3. Unknow						own					
93. Driver's 94. Driver's Gender Code 95. Driver Drove Behin Age 1. Male and Struck or was 5										e 9			nd or thru th	ie Gate 4	Code					
0		male	N	I/A			2. No	3. Unknov	vn _I							pecify in rrative)	N/A			
97. Driver Passe	ed Standin	ng	Code	98.	View of	f Track Obs	cured by	(primary o	bstruction)								Code			
Highway Vehicle 1. Permanent Structure 3. Passing Train 5. Vegetation 7. Other (specify in narrative) 1. Yes 2. No 3. Unknown N/A 2. Standing Railroad Equipment 4. Topography 6. Highway Vehicle 8. Not obstructed														N/A						
101. Casulties to Highway-Rail							ad Equipn 99. Drive		ography 6.	Highv				icted Driver in th	Code					
				Kille	d	Injured			3. Uninjured		N/A		1. Ye			N/A				
0						0		•	le Property Da	y Damage 103.				Number of de driver)	ing Users					
104. Locomotive	Auxiliar	y Ligh	ts?				(est.	dollar dam Code	Ť	motive		ry Ligl	hts Operatio			0	Code			
1. Ye		_	2. N	0				N/A		Yes			2. No				N/A			
106. Locomotive				_		Code N/A	107. Loco	107. Locomotive Audible Warning Sound					ed?							
1. Yes 2. No									1.	1. Yes 2. No						N/A				

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108. DRAW A SKETCH OF ACCIDENT AREA INCLUDING ALL TRACKS, SIGNALS, SWITCHES, STRUCTURES, OBJECTS, ETC., INVOLVED. HQ-32-06 sketch.jpg



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DEPARTMENT OF TRANSPORTATION FEDERAL RAILROAD ADMINISTRATION

FRA FACTUAL RAILROAD ACCIDENT REPORT

FRA File # HQ-2006-32

109. SYNOPSIS OF THE ACCIDENT

On May 20, 2006, at 1:14 p.m., Mountain Daylight Time (MDT), a westbound Union Pacific Railroad Company (UP) freight train (IDUSE-17) derailed on the Pocatello Service Unit, Pocatello Subdivision at mile 104.37, about 11 miles east of Montpelier, Idaho. The train was traveling on a single main track at a recorded speed of 49 miles per hour (mph). The maximum authorized speed for this area of the accident is 50 mph.

The train consisted of three locomotives, 95 loaded platforms, 4,031 trailing tons and was 6,458 feet in length. A total of 41 platforms, 46th through 86th, derailed. There were no injuries reported and no release of hazardous materials. The estimated damage of the derailment was \$720.937 (\$392,002 equipment and \$328,935 track).

At the time of the accident it was daylight and clear. The temperature was 75°F.

The probable cause of the derailment was wide gage due to broken spikes (T111).

110. NARRATIVE

Circumstances Prior to Accident

On May 20, 2006 after completing more than the statutory off duty time, a crew consisting of an engineer and conductor reported for duty at Green River, Wyoming, at 7:45 a.m. MDT., their away from home terminal. The crew was assigned to operate a westbound UP platform train (IDUSE-17), from Green River to Pocatello, Idaho. a distance of 245 miles.

The train consisted of three locomotives, 95 loaded platforms, 4,031 trailing tons and was 6,458 feet in length. The crew boarded the train at about 8:45 a.m. MST., and performed a Class 3 air brake inspection before departing Green River. A Class 1 air brake inspection was completed in North Platte, Nebraska, on May 19, 2006.

The train approached the derailment area traveling geographically and timetable west. Timetable directions will be used throughout this report. The engineer was seated at the controls on the right (north) side of the leading locomotive and the conductor was seated on the left (south) side.

Approaching the accident site from east to west starting at mile 103.9, there is a tangent for 1,508 feet, and then a right hand 3-degree curve 628 feet to the point of derailment and 3,596 feet beyond. The grade approaching the accident area is 0.0 percent to the point of derailment and then ascending to a 0.14 percent grade.

According to the train crew, as the train approached the accident area, the trip had been uneventful.

The Accident

As the train approached the accident site and at the time the accident occurred, the train was being operated at a recorded speed of 49 mph. The speed was recorded by the event recorder of the controlling locomotive.

In the accident area, trains operate on a single main track under the authority of a Traffic Control System (TCS), controlled by a dispatcher in Omaha, Nebraska. The maximum authorized speed for freight trains is 50 mph as designated in the current Union Pacific Railroad Company, Portland Area Timetable No. 3.

According to the train crew there was no observation of any unusual track condition. According to the engineer, he felt a slight surge in the train, then the train went into a train line induced emergency air brake application. The engineer reduced the throttle setting and the train came to a stop. The engineer called the UP train dispatcher and notified them that the train had derailed. The dispatcher asked if they would require medical attention and if there was a fire, the response was negative. The conductor then left the train to survey the damages.

Emergency / Agencies Responders are as follows:

- Bear Lake Sheriffs Department
- Bear Lake County Fire Department

Analysis and Conclusion

The accident did not meet the requirement for FRA Post Accident Toxicology Testing, as required under Title 49 CFR, Part 219, Subpart C.

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DEPARTMENT OF TRANSPORTATION FEDERAL RAILROAD ADMINISTRATION

FRA FACTUAL RAILROAD ACCIDENT REPORT

FRA File # HQ-2006-32

The Investigation revealed the track gage had widened due to broken spikes on the field side of the high rail of the 3-degree right hand curve at UP mile 104.37.

A total of 41 loaded platforms derailed (46th through 86th platforms from the head end of the train).

There were no injuries reported and no release of hazardous materials.

On September 9, 2004, the FRA T-17 track geometry vehicle traversed the accident area no defective conditions were noted in the accident area.

On May 17, 2006, a UP track inspector conducted a track inspection by hi-railing between mile 59.50 and 114.90. No defective conditions were noted in the accident area.

Probable Cause

The Federal Railroad Administration determined the probable cause to be a wide gage due to broken spikes (T111).

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