

IronWood Technologies

Federal Railroad Administration

False Proceed Signal Database

Railroad Accident Reconstruction

January 1, 1995 through May 3, 2004 All Reports - Canadian Pacific Railway

Collision or Report # Date Reporting Block Interlocking Auto. Loco or Train No. Device that Failed Location Carrier System Systems Derailment? Cause Narrative 458 2/17/1995 CP CTC 8654 RTR Signal 139.2 Ν Maintenance - Improper Adjustment, Track Circuit On February 17, 1995 at approximately 1630 CNW south bound train no. 8654 was located at south end of siding Farmington and reported signal 28R at the Farmington holding signals had cleared from Red to Yellow to Green for about 15 seconds and returned to Red while CNW southbound train 8018 was in 2nd block ahead. Upon investigation, it was determined when CNW train 8018 had passed signal 139-2, the directional stick relay had picked to allow a clearing code to generate to the rear causing signal 28R to display an APPROACH aspect and immediately after passing signal 139-2, the train lost shunt allowing a clearing code to be generated back to signal 28R causing signal 28R to display a CLEAR aspect for about 15 seconds. Possible cause found to be RT track circuit was not adjusted properly causing track circuit to pick up momentarily under the train. Corrective Action: All track circuits between Rosemount and Comus will be inspected for adjustment and assure shunting with .06 ohm shunt. 522 10/11/1995 CP Automatic See Below 4RC & 4L Signals **Dewey Indiana** Ν Human Error - Improper Circuit Jumper in Place At approximately 1400 hrs on October 11, 1995, CP Rail System Maintenance of Way employees were raising the crossing at N. 25th Street, CSX Dewey Diamond, in Dewey, Indiana. The gang was working under Form B authority obtained by the foreman. Because of the intermittent shunting of the equipment, the Signal Maintainer held up the 2 LT relay. CSX trains were operating over the Diamond, on signal indication with the 2 LT relay held up. It has been explained to the Maintainer that this is not an acceptable practice. Disciplinary action will be taken.

Report #	Date	Reporting Carrier	Block System	Interlocking	Auto. Systems	Loco or Train No.	Device that Failed	Location	Collision or Derailment?			
			Cause									
			Narrative	•								
526	10/30/1995	5 CP		Remote		CP 5502	Equip. VHLC - 2WB Sig.	Nasohata West (MP 114.8), Oconomowoc,	Ν			
			Scenario	Reenacted, l	Jnable to D	uplicate, No Defects F	ound					
			Train #57 reported	′1 (CP 5502) signal came i	reported the	at the signal out of the nd then went Red.	siding at West End of Nashatah (MP 114.8)	with switch lined for normal move (main line). E	Engineer			
	Dispatcher had Amtrak #7 (westbound) go thru Nashotah West and was going to bring #571 out of siding after #7 but forgot to line switch reverse requesting a signal clear with a call-on. When he realized what he had done he sent out cancel signal request. We had Electronic Tech in Control the logs on the Nashotah West location and they confirmed what the dispatcher said that he had done. It showed that the 1WA which is the main I did clear for a second before the dispatcher sent out the signal cancel request. The location at that time, went into time because the East End of I lined into the West End of Nashotah.											
			We tried bound tra	to duplicate t ain. All batter	he moves t ies at locat	hat took place with the tion showed free of ar	e dispatcher and shunts but were unable to ny grounds.	get the 1WB to show CLEAR. Also tried with a	nother west			
			The logs pulled showed that the 1W B signal never showed CLEAR until the switch was lined reverse and then dispatcher requested the signal. Also pulled logs from VHLC and they agreed with logs from office.									
			The following day when the Engineer came back on duty, I talked with him and told him of our testes [sic] and logs he said that he would hate to think that he was looking at the wrong signal but could have been. The train was sitting back from the signal five or six car lengths. It was also dark and they had been sitting in siding for about one hour twenty minutes.									
			After talking with the Engineer and making all tests and checking logs I put the 1WB signal back in service.									
			No furthe	r problems h	ave occurre	ed.						
650	11/13/2000) CP	СТС			CP8500	OS Track Circuit	Minneapolis, MN	Ν			
			Insufficient Information in Report to Assign Cause									
			See reverse side of this page [reverse side of page not photocopied by FRA].									

Report #	Date	Reporting Carrier	Block System <mark>Cause</mark>	Interlocking	Auto. Systems	Loco or Train No.	Device that Failed	Location	Collision or Derailment?					
			Narrative	9										
654	12/18/2000) CP	CTC			CP8507	X-Over Switch	South Milwaukee, WI	Ν					
			Human E	Human Error - Improper Circuit Jumper in Place										
			Nature of	f Failure:										
			On Dec. had a CL	18, 2000 at a EAR signal t	pprox. 1300 o proceed e	CP8507, with Engine east on #2 main track	er Skotarzak and Conduct with the east end of the we	or Franklin, proceeding east on #2 main track approaching contrest crossover (#5) lined reverse.	ol point at Lake					
			Just prev	vious, a westł	ound Amtra	ak train had crossed c	over from #2 main track to	#1 main track at the west crossover (#5) at Lake.						
			After Am main trac (#5) did r	trak had pass ck at Lake to not move, sta	ed control be cleared. ying reverse	point at Lake, Dispatc The switch on the w e. The west crossove	her requested west crosso rest end of the west crosso er (#5) indicated both ends	over (#5) to be lined normal and requested an eastbound absolution over (#5) went normal and the switch at the east end of the we were lined normal and the eastbound absolute signal cleared.	ute signal on #2 est crossover					
			Signal Ma	aintainer K.D.	Huebner n	oticed the malfunction	and stopped train CP 850	7 before running through the switch.						
			Cause ar	nd Corrective	Action:									
	Further investigation revealed a jumper wire in the GRS 5F switch machine on the east end of crossover had been applied across term would allow the crossover to indicate normal or reverse dependent upon position of the crossover switch on the west end of crosso the east end of the crossover (#5) did not move to normal as requested but frost in contacts or armature is suspected.													
			Corrective action taken was removal of the jumper from contacts 1 and 8 and crossover tested by removing power from each end simultaneously requesting opposite end of crossover to go normal or reverse and verifying if either end is not in correspondence and it will not indicate. Immediately all crossovers on the CP Railway (Soo Line) utilizing GRS Model 5F switch machines were inspected and found to be correct. CP Railway (Soo Line) is presently drafting a test procedure to be done every 2 years in conjunction with RS&I Rule 236.380 Indication Locking test utilizing the above testing procedure.											
677	7/27/2001	СР		Manual		CP 5653	Signal 3WB	Bryn Mawr Interlocking	Ν					
			Scenario Reenacted, Unable to Duplicate, No Defects Found											
			It was reported that signal 3WB indicated CLEAR (Green) for a call on move by crew of CP 5653. All data & info was retrieved & all tests performed. Indicated no defects. Please see following attachments [nothing attached].											

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Report #	Date	Reporting Carrier	Block System Cause Narrative	Interlocking	Auto. Systems	Loco or Train No.	Device that Failed	Location	Collision or Derailment?		
680	9/6/2001	CP	CTC	nuinment or D		CP6055E	45L Sig.	Buffalo, MN	N		
			On 9/6/0 absolute Signal M wire was Correctiv construct	1 at 1933 hrs signal and ob ltr, it was four replaced and ve Action: Mt ction crews re	train CP60 pserved sign to have t the balance rs to inspective the pr	255 East with Conduct nal 45L displaying a R the yellow light wire p ce of the other wires v ct all stackable colorlig roper procedures and	tor and Engineer was moving ted over Yellow aspect. This inched under the nuts and way vere inspected in all the signal ght heads to assure proper sp practices when doing wiring	thru Buffalo East Control Point, Conductor looke signal shound have been Red. Through investig ashers of the red light wire in the jct. box of the als at this control point. Signal 45L is a 4-position pacing and placement of wires. Review inciden g in close confined areas.	ed back at the westbound gation by Signal Supv and color light head. The yellow on colorlight signal. t with all Suprv. And with		
684	12/10/2001	CP		Manual		Amtrak 41, CP 605	2R Signal	Milwaukee, WI	N		
			Insufficie	ent Information	n in Report	to Assign Cause					
			See attac	ched [nothing	attached].						
696	6/18/2002	CP		Remote		CSXT 7911	CL	Portage, WI	Ν		
			Phantom	i Signal - Due	to Sun Ang	le					
	After changing the outer clear plastic lens to a glass outer clear lens, the signal maintainer failed to secure the lunar CL head. Train 614 (CSXT 791 the siding at Portage Jct. The train was about 10 cars west of 2EA signal when they observed what they thought to be a DIVERGING CLEAR aspec passed the signal and stopped short of a power switch lined against them.										
			We are reviewing FRA Rule 236.3 (locking of signal apparatus housings) with all concerned.								

Report #	Date	Reporting Carrier	Block System <mark>Cause</mark>	Interlo	ocking	Auto. Systems	Loco or Train No.	Device that Failed	Location	Collision or Derailment?			
			Narrative	Э									
697	7/2/2002	2 CP		Mar	nual		730 Transfer	Sig. 5EA/5EB	Milwaukee, WI	Ν			
			Human Error - Signal Equipment Improperly Installed										
			Switch engine (730 Transfer) with Engineer [redacted] and Conductor [redacted] sitting on #3 track at Merrill Park just west of the EB absolute signal (governing movement into Cutoff Interlocking. The crew requested the signal (5EB) to proceed east from Merrill Park #3 track with the hand throw swit for their route into Cutoff Interlocking. The signal (5EA) governing movement from Merrill Park #2 track into Cutoff Interlocking cleared which is not cor When the hand throw switch is lined reverse, the signal (5EA) governing movement from Merrill Park #2 should clear when requested. When the har switch is lined normal, the signal (5EB) governing movement off Merrill Park #3 should clear when requested.										
clear.													
			A formal	investi	gation	is schedule	ed to determine facts	and place responsibility for	or this incident.				
701	9/6/2002	2 CP	CTC				SOO 2032W	Insulated Joints	Brooten, MN	Ν			
			Failed Equipment or Device - Insulated Joint(s)										
			About 1330 on September 6, 2002, Engineer [redacted] told the S&C Supervisor [redacted] at Glenwood that there may be a problem with the signal at MP 104.5 near the West House Track at Brooten, MN. Engineer [redacted] stated they stopped with a westbound wayfreight on September 1, 2002 about 1600 east of signal 104.5, cut off their train with 3 engines and two cars then proceeded west to the west house track switch. They reversed the switch and backed into the house track far enough to set out the cars and thought the signal 104.5 appeared to displayed a CLEAR aspect with the house track switch lined reverse.										
S&C Supervisor [redacted] proceeded to the site and simulated the train move. He found by sin 104.5 displayed a CLEAR aspect. Further investigation revealed the house track switch was w controller with the polarity the same on both sides of the insulated joints with TJCs around insul and both insulated joints were shorted.									He found by simulation when the west house track swit ck switch was wired per plan breaking the track circuit th ICs around insulated joints for the warning devices on CS	ch was open, signal rough the switch circuit SAH-18 (Central Ave.)			
			Method of train operation is freight with maximum speed of 60 MPH for expedited trains and all others 50 MPH in CTC territory on the Paynesville Sub.										
			Cause of	Cause of failure was due to insulated joints shorted.									
			Correctiv All switcl controlle	/e actio hes we r are be	on take re insp eing re	n: Tempor ected follo designed to	arily switch was take wing this incident and b have track leads tra	n out of service with a shi d any switches found to h nsposed at all of these lo	unt circuit wired in the circuit controller until insulated joi have two insulated joints breaking the track circuit throug cations.	nts were changed out. gh the switch circuit			

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Report #	Date	Reporting Carrier	Block System Cause	Interlocking	Auto. Systems	Loco or Train No.	Device that Failed	Location	Collision or Derailment?				
			Narrative	e									
715	8/21/2003	3 CP	CTC			CP 8526	Sig. 1W	MP 385.9, Vermillion, MN	Ν				
			Scenario Reenacted, Unable to Duplicate, No Defects Found										
			[Text of e	e-mail messag	ge from Tim	othy L. Lyon (S&C Su	pervisor, LaCrosse, WI), to hi	imself on 8/25/2003]					
	On Thursday night at about 2302 I was contacted by Operations Control Center that a train had reported a signal displayed a DIVERGING CLEAR a signal should have been a DIVERGING APPROACH.												
	I immediately had the local maintainer go to the site and test the signal. Maintainer arrived on site and had the Dispatcher request the same line-up requested for the train. Signal displayed a DIVERGING APPROACH. Site was ground tested with no exceptions found. Signal head and junction inspected with no defects found.												
			On Frida Those log	y morning I co gs are attache	ontacted the ed to this m	e Technician in the So essage.	o Line building for a copy of t	he logs from the CTC system for the timeframe involve	ed in the accident.				
	On Friday morning, after talking to the Technician, I then drove to the site and was met by the Signal Maintainer. We proceeded to retest the s line-up was duplicated from the previous evening when the incident occurred. We had the Dispatcher duplicate the entire move, including the The signal, when lined displayed a DIVERGING APPROACH.												
			We then inspected	meggered the	e cable fror ead and jur	n the house to the sig action box with no exc	nal with no exceptions found. eptions noted.	We also did another ground test with no exceptions	noted. We also				
			Signal lamp voltages are as follows: Green 9.0, Yellow 9.0, Lunar 8.6, Red 9.0. With signal 1W lined for DIVERGING APPROACH, voltages are: Red 8.2, Yellow 8.6.										
			With sign during the	nal 1W lined th e test remaine	DIVERGING APPROACH in all tests. Incoming codes from East Hastings								
			Outgoing codes were a Code 1 & 3. All codes are as prescribed by the print.										
			Control point to the west is East Hastings, all signals were displaying Red aspects as no signals had been lined at this location as shown in the attached logs.										
			Train tha	t reported this	s incident w	vas train # 297-20 (CP	8526).						

No. of Reports Shown in this Listing: 12

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