



IronWood Technologies

Railroad Accident Reconstruction

Federal Railroad Administration

False Proceed Signal Database

January 1, 1995 through May 3, 2004

All Reports - Illinois Central Railroad Company

Report #	Date	Reporting Carrier	Block System	Interlocking	Auto. Systems	Loco or Train No.	Device that Failed	Location	Collision or Derailment?
509	8/24/1995	IC	CTC			GNOCH24, WC174	Signal 2LB	Skip, LA	N
Human Error - Improper Equipment Installed									
Signal LB displayed a SLOW CLEAR indication for trailing route through turnout reverse, when switch points were normal. Two engines split switch. This incident was called in per FRA 233.5 at 11:40 CDST, 8-24, FRA Rpt#305107.									
Investigation found that the pin attaching the throw bar to the throw rod broke. When the switch was called reverse the points remained normal. The point detector circuit had voltage of normal polarity, and the KP relay was reverse connecting the RWCR to this normal voltage. Since the RWCR was a neutral relay, it energized.									
During a previous cutover the original relay (600 ohm biased-neutral) was changed to a 900 ohm neutral relay with more contacts. The tests did not detect the error since the tests did not include mechanical failures, or simulations which disconnect the motor, which prevented the switch points from moving.									
609	11/11/1998	IC	CTC			GCG2CH	NBH Sig.	South Edgewood, IL	N
Human Error - Signal Circuit Design Error, Inadequate Service-Testing									
Crew of train observed NBH at CP South Edgewood display Yellow over Green in approach to the home signal at Edgewood Jct. displaying Red over Red.									
Investigation found the Light Out Relay was de-energized for the top Red marker at Edgewood Jct. With the LOR down, the lower aspect was set Red; however, the outgoing code to the approach signal was not downgraded and continued to send a code for Yellow over Green.									
Interim circuits were made by disabling the codes for the approach aspects when the LOR is de-energized. When the interim circuit changes were completed, tests were performed and signals observed to insure integrity. Permanent changes require programming and circuit changes, and these changes are being installed.									

No. of Reports Shown in this Listing: 2