DEPARTMENT OF TRANSPORTATION FEDERAL RAILROAD ADMINISTRATION	OMB No. 04-R-(0)
FALSE PROCEED SIGNAL REPORT	August 2002
	September 4, 2002
All initionals subject to Regulations of the Pederal Rational Administration shall submit a false powered signal report, original only, to the Federal Rational Administration shall submit five anys after a false proceed secure, if no father proceed Administration withhir month, a report shawing "Na Faitures" must be filed within ten days after the Coules of the first or the father of the fat	REPURTING CARRIER (ratificed & region or division)
Copies of this form will be furnished upon request to the Department of Transportation, Federal Relifered Administration, Office of Safety, Washington, D.C. 20590 U.41(, Tt)	Montana Rail Link P O Box 16390
	Missoula, MT 59808
Federal Railroad Administration	
Regional Administrator 703 Broadway, Suite 650	REPORTING OFFICER (algoritha) titles
Vancouver, WA 98660	Man

A failure should not be counted more than one time in Items 1, 2, 3, and 4: the failure should be classified under the name than one time in items 1, 2, 3, and 4; the failure should be classified under the name system or appliance of which it forms on escontial part. E.E.: assume grounds cause a block signal to indicate a failer praceed counting corresponding indications of a cab signal system on each their approaching this point, such failure should be included in item 1, block Systems.

A false proceed fullure is a failure of a system, device or suppliance to indicate or function as intended which results in less restriction than intended.

The following abbreviations may be used in the capact.

Signals & Communications

A-Automatic A-Automatic block
AS-Automatic block
ACS-Automatic cob signal
APB-Absolute permissive block
ATC-Automatic train control
ATS-Automatic train arop
CL-Culor light
CSI - Culor - Califor - Ca

EM-Electromechanical EP-Electopheumenic FP-felse proceed MB-Manuel Mork
M-Morhanical
P-Preventic PL-Pushion light

Mirctor

CPL-Calor position light S-Electric SA-Semigutometic TC-Traffie control TYPE OF SYSTEM LOCOMOTIVE QATE. DEVICE THAT NUMBER LOCATION (plif and size) FAILED BLOCK SYSTEMS Ag switch APS X TE 8/22/02 BNSF 5447 2 INTERLOCKING machine AUTO-Reed Point MT MATIC --MANUAL AUTOMATIC SYSTEMS ATS 4 OTHER (apacity) MATURE AND CAUSE OF FAILURE GORRECTIVE ACTION TAKEN

See attached.

De Busk

On August 22, 2002, at approximately 10:29 hours, Eastward Train, UP 4978, Train Symbol ESPBDKM029, derailed 3 locomotives and 16 cars at West Reed Point. Engineer on Train ESPBDKM029 reported that he observed the Eastward Absolute Signal at West Reed Point as displaying a green over red aspect with the switch points for the West Siding Switch open. Train ESPBDKM029 split the switch and derailed 3 locomotives and 16 cars.

Preliminary investigation by Signal Department personnel revealed the Absolute Signal at West Reed Point was displaying a green over red aspect with the switch points open as reported by the Engineer on Train ESPBDKM029. At The time the derailment occurred, the point detector rod was broken and the switch was indicating in the normal position with the switch points gapped open along with bent switch rods.

Signal Department personnel revealed that the cause of the failure to be a combination of a broken point detector rod, a missing wear plate under the lock rod on the field side of the GRS Model 5D switch machine and wear under the lock rod on the field side of the switch machine frame. The wear plate was found in the bottom of the switch machine with a broken pin that secures the wear plate in place under the lock rod on the switch machine frame.

The missing wear plate which was .093" thick and .028" wear on the frame of the switch machine permitted the lock rod to sit .121" lower in the switch machine than normal. This resulted in permitting the point detector yoke to move an additional 1/16" before resting on top of the lock rod clips. This was enough movement to permit the point detector to indicate in the normal position with the switch points in the reverse position.

Furthermore, it was determined that the west siding switch had been ran through by two Westbound Trains prior to the derailment. Westward Train ENSF 5447, Train Symbol VKCMTAC820 ran through the switch at approximately 7:42 hours. At this time the switch points were lined for the reverse position and indicating in the normal position. Westbound Train ENSF 4398, Train Symbol HKCKPAS119 also ran through the switch at approximately 7:56 hours. Both Trains were on the Main Track and the Westward Signal for the Main Track at West Reed Point displayed a green signal aspect for both trains. Neither train crew reported a signal failure at West Reed Point prior to the derailment. The train crew on Train VKCMTAC820 did notify the Dispatcher after hearing about the derailment and reporting that they thought the switch was lined against them at West Reed Point but they were not positive so they didn't file a report.

Signal Department personnel replaced the switch machine at West Reed Point and have checked the wear plates and performed a switch point integrity test on all power operated switch machines on Montana Rail Link.