DEPARTMENT OF TRANSPORTATION FEDERAL RAILROAD ADMINISTRATION						
FALSE PROCEED SIGNAL REPORT		DATE	4-12-97			
MAIL TO Mr. Tom McFarlin Signal & Train Control Specialist Federal Railroad Administration 1100 Main Street, Suite 1130 Kansas City, MO 64105		REPORTING CARRIER (railroad & region or division)				
		Burlington Northern Santa Fe Railway				
		Kansas Division Emporia Subdivision				
		REPORT	TING OFFICER (sig	mature/title)		
FEDERAL RAMIROA	r.		AVR. Signal:			
A failure should not be counted more than one time in items 1, 4; the failure should be classified under the basis system or and	2, 3, and	The follo	wing abbreviations n	nay be used in the re	port	
which it forms an essential part. I.g.: astimle grounds cause a block signal to indicate a false proceed causing corresponding indications of a cab signal system on each train approaching this point, such failure should be included in Item 1. Block Append 5			A -Automatic			Electromechanical
			AB -Automatic block			-Electropneumatic
			ACS -Automatic cab signal			-False proceed
			APB -Absolute permissive block			-Manual block
			ATC -Automatic train control			-Mechanical
			ATS -Automatic train stop			-Pneumatic
			CL -Color light CPL- Color position light E -Electric			-Position light
						-Semiautomatic
						-Traffic Control
TYPE OF SYSTEM	DATE	LOCOM	OTIVE OR TRAIN	DEVICE THAT FAILED	LOCA	TION (City and State)
1 BLOCK SYSTEMS AB APB X TC	4-4-97	C-TPRR 9552	1-04 ENGINE UP	NONE	AUGU	STA, KANSAS
2 INTERLOCKING AUTO MATIC						
3 AUTOMATIC SYSTEMS ATS ATC ACS						
4 OTHER (specify)						

NATURE AND CAUSE OF FAILURE/CORRECTIVE ACTION TAKEN

ON APRIL 4, 1997, AT APPROXIMATELY 1510 HOURS, UP COAL TRAIN, C-TPRR1-04 UP ENGINE 9552, WAS TRAVELING WESTBOUND ON THE NORTH TRACK OF THE EMPORIA SUBDIVISION, KANSAS DIVISION, APPROACHING THE EAST END OF AUGUSTA SIDING MP-183.21 WHEN THEY REPORTED THE 2R SIGNAL PUMPING FROM YELLOW TO FLASHING YELLOW AND BACK TO YELLOW WITH THE NEXT SIGNAL AT CP-1853 RED TO THE SOC IN SCHUAMBURG, ILLINOIS. THE WEATHER WAS WINDY, COLD AND RAINING.

THE TRAIN WAS ADVISED TO STOP SHORT OF THE SIGNAL, SIGNAL 2R WAS TAKEN DOWN AND THE CREW ADVISED TO WAIT FOR THE ARRIVAL OF SUPERVISOR SIGNALS INTERVIEWED THE CREW AND ADVISED THE DISPATCHER THAT THEY COULD FLAG SIGNAL 2R. THIS ROUTE WAS TAKEN OUT OF SERVICE UNTIL TESTING COULD BE PERFORMED.

THE INCIDENT WAS INVESTIGATED BY SUPERVISOR SIGNALS , SIGNAL MAINTAINERS AND SIGNAL 2R AT THE EAST END OF AUGUSTA WAS REQUESTED AND DISPLAYED A FLASHING YELLOW ASPECT WITH THE NEXT SIGNAL AT CP-1853 RED. FURTHER INVESTIGATION REVEALED THAT THE NWMR RELAY AT THE EAST END OF AUGUSTA WAS ENERGIZED WITH THE 2RAHDP RELAY AT CP-1853 DE-ENERGIZED, THIS ALLOWED SIGNAL 2R TO DISPLAY A FLASHING YELLOW.

THE BATTERY END OF THE NWMR CIRCUIT WAS OPENED AT CP-1853 AND THERE WAS STILL APPROXIMATELY 10 VOLTS DC ON THE CIRCUIT FROM AN EXTERNAL SOURCE. THE POLELINE WAS WALKED AND A LINE WRAP WAS DISCOVERED BETWEEN THE NUMBER 5, TOP ARM, TRACK SIDE POSITION AND THE NUMBER 5, BOTTOM ARM, TRACK SIDE POSITION WITH THE NUMBER 4, TOP ARM WIRE LAYING AGAINST THE NUMBER 4, BOTTOM ARM WIRE AT APPROXIMATELY MP-184.64. THE TOP ARM 4 AND 5 TRACK SIDE CIRCUIT IS, NSWXRN AND NSWXR RESPECTIVELY. THE BOTTOM ARM 4 AND 5 IS, NWNRN AND NWMR RESPECTIVELY. THE NSWRX CIRCUIT IS A 10 VOLT DC WRAP FOR THE CUSTER LANE CROSSING AT MP-184.64 THAT IS NORMALLY ENERGIZED. THE WIRES WERE SAGGING ACCOUNT OF AN IMBALANCE ON THE EAST SIDE OF THE DOUBLE ARM WHICH ALLOWED THE TRACK SIDE WEST TO BECOME SLACK.

THE WRAP WAS REMOVED, AN ARM GUY INSTALLED AND THE SLACK TAKEN OUT OF THE WIRES. ALL ENERGY WAS REMOVED FROM THE NWMR CIRCUIT AND THE SIGNAL 2R NOW DISPLAYED A YELLOW ASPECT. THE SIGNAL WAS TESTED INCLUDING CROSS AND GROUNDS AND RETURNED TO SERVICE AT APPROXIMATELY 1930 HOURS. THE NWMR AND NSWXR CIRCUITS WERE STAGGERED TO PREVENT A SIMILAR OCCURRENCE IN THE FUTURE.

(If more space is required continue on reverse)

FRA F6180-14