DEPARTMENT OF TRANSPORTATION FEDERAL RAILROAD ADMINISTRATION			REPORT FOR (month/	year)
FALSE PROCEED SIGNAL REPORT			January, 2000	
			DATE	
			04-Jan-0)1
			REPORTING CARRIER	
			Norfolk Southern Corporation	
MAIL TO Mr. Michael Woods			Division:	Piedmont
Federal Railroad Administration			REPORTING OFFICER	
16th Floor - Suite 16T20				
100 Alabama Street, SW Atlanta, GA 30303-3104			- 🕶	
Atlanta, GA 30303-3104			Chief Engineer - Eastern Region	
			Communications & Signal Department	
TYPE OF SYSTEM	DATE	LOCOMOTIVE NUMBER	DEVICE THAT FAILED	LOCATION (city and state)
1 BLOCK SYSTEMS				
AB APB X TC	01/04/2001	P42P3	Phantom Signal	Thicketty, NC
2 AUTO- INTERLOCKING MATIC				
REMOTE MANUAL				
REMOTE MANUAL		 	D	EPARTMENT OF TRANSPORTATION EDERAL RAILROAD ADMINISTRATION
AUTOMATIC SYSTEMS				RECEIVED
ATS ATC ACS				
OTHER (specify)				438
NATURE AND CAUSE OF FAILURE / CORRECTIVE ACTI	ON TAKEN	<u> </u>	<u> </u>	TLANTA, GEORGIA

At approximately 5:04 p.m. on 1/4/01, train P42P3, Engineer Conductor and Brakeman running northbound, reported a signal problem with the 4354 northbound intermediate signal at MP 435.4. Train P42P3 was northbound on track two returning to a cut of 15 cars it had left on track two north of the 4354 intermediate signal. Upon approaching the 4354 signal northbound, the crew first observed a restricting red over red aspect. As they got closer to the signal, it appeared to them as an approach, yellow over red aspect. The engineer called the dispatcher and reported he thought there were signal problems at the location. The dispatcher called signal personnel to investigate. Investigation revealed no exceptions with signal circuits, grounds or relay operation. However, it was determined that the sun was shining directly into the signals at the time of the incident and the situation would be reenacted at 5:00 p.m. on 1/5/01, as a phantom aspect was suspected.

Conditions were almost identical to the previous day during the reconstruction. The same crew and train P42P3 were used, with signal officers on board to observe the signals. At a distance the restricting aspect was visible on signal 4354. When the train got within 600' of the signal, an approach aspect could be distinguished and the top head green lens appeared dimly lit on signal 4354.

It was observed that the signal was affected by the sun's glare, and the top head appeared to have all three units (green, yellow and red) burning dim and of equal intensity. Such an aspect would have been interpreted as an improperly displayed signal, rather than an approach. However, the possibility of an approach aspect could not be discounted.

Adjustments were made to make the signal aspects easier to discern in the afternoon sun. This involved bulb voltage adjustments, sighting alignment and installing long signal hood covers.