



NATIONAL TRANSPORTATION SAFETY BOARD  
**Investigative Hearing**

Norfolk Southern Railway general merchandise freight train 32N  
derailment with subsequent hazardous material release and fires,  
in East Palestine, Ohio, on February 3, 2023

<b>GROUP</b>	<b>E</b>
<b>EXHIBIT</b>	
14	

Agency / Organization

**Norfolk Southern**

Title

**Exhibit 14- NS Quick  
Reference Alert Handling**

Defect / Fault	Non Key Train	Key Train	Passenger Train
<b>Train Too Slow / Stopped on Detector ( No Defects)</b>	30mph to Next (if no prev. defects)	Inspect	Inspect
<b>Train Too Slow / Stopped on Detector (with Defects)</b>	Inspect announced axles	Inspect	Inspect
<b>Detector Not Working</b>	<i>If no erratic operatin in cab... No previous defects... Notify dispatcher of failure (1st out of yard or last into yard require roll by) 2nd consecutive requires roll by</i>		
	30mph to next	Stop and Inspect	Stop and Inspect
<b>Dragging Equipment Detector (No Axle)</b>	Stop and Inspect	Stop and Inspect	Stop and Inspect
<b>No Message (Data Available)</b>	if data available in WDS and Raw file shows no errors = continue at track speed (only if no train handling issues reported by crew) *input Remedy Ticket for no response*		
	30mph to Next as long as detector is not 1st or last into the yard. (If detector is 1st out of yard or last into the yard roll by for non-key trains)	Stop and Inspect	Stop and Inspect
<b>No Message (Data Not Available)</b>	*input Remedy Ticket for no response*		
<b>Hot Box Alarm</b>	Stop and Inspect (10mph rollby authorized based on alarm details)	Stop and Inspect	Stop and Inspect
<b>Hot Wheel Alarm</b>	Stop and Inspect (set and release, then 10mph roll by auth.) (single track can proceed 30mph to double track, siding or yard)	Stop and Inspect	Stop and Inspect
<b>2 of 3 consecutive detectors trigger talker alarm (HWD / HBD)</b>	Set Car Out	Set Car Out	Set Car Out
<b>WILD</b>			
<b>Non-Critical</b> (125-139.9) Set Out (30mph auth to nearest designated set out location) <b>Critical</b> (140+) Set Out at next FWD location NTE 30, vehicle must be inspected before movement	<b>Imbalance Exception</b>		
	<b>Non-Critical</b> (15-19.99 Kips) Continue w/o stopping NTE 30mph until set out. <b>Critical</b> (20.00+) Stop ASAP and inspect. If no obvious defect = 30mph to nearest set out location.		
<b>HAZ WILD</b>			
Non-Critical (110-119.99) 30mph to set out Critical (120+) Stop + Inspect safe to set out NTE 30			
<b>No Data WILD</b>			

Revised 1/7/20