Test Date Tuesday, December 19, 2023

 Test Time
 07:00CT

 General Conditions
 24F, Clear

 Test trainset
 5525(Head)-5526

For all runs:

Notes: Snow Fighter was 250' after entrance to 9T (simulated at incident location using a track shunt)

Cells show in red indicate collision with snow fighter

Cells shown in green indicate train stopped safely short of the 9T track circuit ahead

					Time					
					for					
					train to	Time to				
					trigger	reach				
			Distance		steady	zero	Collisio			
			to full stop		red	after	n with			
			before (-		after	zero-	Simulat			
)/beyond		enterin	comma	ed			
	Simulated	Max	(+)	Total	g 26T	nd	Snow			
Test Run	occupancy	Speed	entrance	braking	(second	(second	Fighter	Wet		
Number	of 9T	(mph)	to 9T (feet)	distance	s)	s)	?	Track?	Test	Comments
1		55	172	2070		42.1	N		Operator acts normally; full service brake at 26T bond	
2		55	-119	1779			N		Operator acts normally; full service brake at 26T bond	
3		55	-479	1419			N		ATC bypass; ~75% service brake at 26T bond	Operator applied brakes ~1-2 seconds early
										Invalid testTrain came out of ATC bypass and
4		55	18	1916		39.6	N		ATC bypass; ~75% service brake at 26T bond	applied full service brake towards end
5		55	122	2020		37.9	N		ATC bypass; ~75% service brake at 26T bond	
6		55	-583	1315		31.5	N		ATC bypass; ~50% service brake at 26T bond	Excellent braking performance
7		55	-705	1193		29.1	N		ATC bypass; ~50% service brake at 26T bond	Excellent braking performance
8		55	320			42.7	Υ		Repeat of run 1operator acts normally; full service brake at 26T bond	
9	Υ	55	396	2294	3.6	37.2	Υ	Y	Incident recreation: operator reacts to ATC; full service brake; "Emergency brake" upon sight of snow-fighter	Freshly wet track
										Emergency brake never required: train stopped
10	Υ	55	-461	1437	4.3	26.4	N	Y	Incident recreation: operator reacts to ATC; full service brake; "Emergency brake" upon sight of snow-fighter	well in advance
										Invalid testOperator applied emergency
11	Υ	55					N	Y	Incident recreation: operator reacts to ATC; full service brake; "Emergency brake" upon sight of snow-fighter	brakes early
12	Υ	55	-263	1635	3.9	25.6	N	Y	Incident recreation: operator reacts to ATC; full service brake; "Emergency brake" upon sight of snow-fighter	
13		55			-				Full emergency at 26T bond	Wheels locked during the entire braking event
14		55	-650	1248	3.9	19.7	N		Full emergency at 26T bond; track brake featured turned ON	

SK1 track segments, towards Howard: 44T, 26T, 15T, 9T "Zero-speed command point (26T bond)" is transition between 44T and 26T, before Custer x-over