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## Exception Rule Formulas

Rule ID	Rule Name	Rule Description
1	<b>Independent Brake</b>	Brake cylinder > 15 and speed > 15 and speed < 70 for at least 30 seconds.
28	<b>FCS 50</b>	Speed > 55 and throttle > T5 for at least 240 seconds.
16	<b>Centering of Reverser</b>	(Reverser is in forward or reverse) and speed = 0 and (tractive effort or load if present is 0) for at least 3600 seconds.
3	<b>Power Brake</b>	Speed > 20 and brake pipe < 69 and brake pipe > 0 and PCS is off for at least 30 seconds.
12	<b>Northern Region Power Brake</b>	(ATC cab signal = arm or clear) and speed > 20 and throttle > T5 and brake pipe < 76 for at least 30 seconds.
4	<b>Heavy Reduction</b>	Speed > 20 and brake pipe < 69 and brake pipe > 0 and PCS is off for at least 15 seconds.
21	<b>Western Region Heavy Reduction</b>	Speed > 20 and brake pipe < 72 and PCS is off for at least 15 seconds.
11	<b>Northern Region Heavy Reduction</b>	ATC cab signal = clear and speed > 20 and brake pipe < 72 and PCS is off for at least 15 seconds.
8	<b>FT Brakes (BP Continuity 5 minutes)</b>	'Brakes Applied' and 'Stopped With Brakes Released' and (Tractive effort > 20 or load > 300) and speed > 20 for at least 1 second.
	<b>Brakes Applied</b>	Brake pipe < 84 for at least 1 second.
	<b>Stopped with Brakes Released</b>	Brake pipe > 84 and speed = 0 for at least 300 seconds.
22	<b>FT Brakes for 600 seconds (BP Continuity 10 minutes)</b>	'Brakes Applied' and '600 Stopped With Brakes released' and speed > 20 and (Tractive effort > 20 or load > 300) for at least 1 second.
	<b>600 Stopped with Brakes Released</b>	Brake pipe > 84 and speed = 0 for at least 600 seconds.
	<b>Brakes Applied</b>	Brake pipe < 84 for at least 1 second.

<b>9</b>	<b>CVE Motion</b>	Conductor Valve Emergency is on and speed > 8 and speed < 70 for at least 20 seconds.
<b>2</b>	<b>Engineer Induced Emergency</b>	EIE is on and TLEM is off and PCS is off and speed > 8 and speed < 70 for at least 20 seconds.
<b>5</b>	<b>Alerter Penalty</b>	Alerter penalty is on and speed over 10 for at least 10 seconds.
<b>6</b>	<b>Engine Revving</b>	(Tractive effort = 0 or load = 0) and speed = 0 and throttle > T2 for at least 25 seconds.
<b>7</b>	<b>Engine Stall</b>	(Tractive effort > 20 or load > 200) and speed = 0 for at least 180 seconds.

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