

EQMS – Auto Scan Formula Details

Quick Reference Guide



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For assistance, please contact Online System Services at 544-5555 (Opt.1, Opt.2) Instructional Technologies & Implementation Services

Overview

The Auto Scan document provides users with the Formula Details table. It includes the rule name and its corresponding description.

Formula Details

| Rule Name | Rule Description |
|---|--|
| Independent Brake | Brake cylinder > 15 and speed > 15 and speed < 70 for at least 30 seconds and not DPU. |
| FCS 50 | Speed > 55 and throttle > T5 for at least 240 seconds. |
| Centering of Reverser | (Reverser is in forward or reverse) and speed =0 and (Tractive effort or load if present is 0) for at least 3600 seconds. |
| Power Brake | Speed > 20 and throttle > T6 and brake pipe < 80 and brake pipe > 0 and PCS is off for at least 30 seconds. |
| Northern Region Power Brake | (ATC cab signal = arm or clear) and speed > 20 and throttle > T5 and brake pipe <76 for at least 30 seconds. |
| Heavy Reduction | Speed > 20 and brake pipe < 69 and brake pipe > 0 and PCS is off for at least 15seconds. |
| Western Region Heavy Reduction | Speed > 20 and brake pipe < 72 and PCS is off for at least 15 seconds. |
| Northern Region Heavy Reduction | ATC cab signal = clear and speed > 20 and brake pipe < 72 and PCS is off for at least 15 seconds. |
| FT Brakes for 600 seconds (BP Continuity 10 minutes) | 'Brakes Applied' then Stopped With Brakes released for > 600 seconds then speed > 20 and (Tractive effort > 20 or load > 300) for at least 1 second. |
| CVE Motion | Conductor Valve Emergency is on and speed > 8 and speed < 70 for at least 20 seconds. |
| Speeding | Speed > 75 and speed < 80 for at least 30 seconds. |
| HTUA (Crude Oil or Flammable Train) | Speed > 43 and train consist = Crude Oil train or High Hazard Flammable train. |
| Key Train | Speed > 53 and train consist = Key train. |
| Engineer Induced Emergency 10 Seconds | EIE is on and (TLEM is off and PCS is off) 1 second prior and speed > 8 and speed < 70 for at least 10 seconds. |
| UDE 10 | PCS is on and speed > 9 and speed < 20 and Brake pipe > 45 and EIE is off and CVE is off for at least 1 second. |
| UDE 20 | PCS is on and speed > 19 and Brake pipe > 45 and EIE is off and CVE is off for at least 1 second. |