**RSI Overhauling Check Sheet**

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| --- | --- | --- | --- | --- | --- | --- |
|  | **Removed Loco No.** |  |  |  | **RSI-1** | **RSI-2** |
|  | **Provided Loco No.** |  | **Make** |  |  |  |
|  | **Removed Date** |  | **RSI Sr. No.** |  |  |  |
|  | **Provided Date** |  | **Mfg Year** |  |  |  |
|  | **Date of Overhaul** |  | **Type** |  |  |  |
| **Sr. No** | **Check Point** | | | **Standard** | **Actual** | |
| **1** | Check visually all components and frame for any damage and deformation | | | No Damage / No deformation / Rectified |  |  |
| **2** | High voltage reverse current test of each diode (As per SMI-67) | | |  |  |  |
| a) 700 volts (for NGEF, AGE, CLW make and Ruttansha make RSI) | | | 15 Milli Amp (Max.) |  |  |
| b) 650 Volts ( for Hind make RSI) | | | 30 Milli Amp (Max.) |  |  |
| **3** | Tightening of all diodes with torque wrench at 1.5 Kgms | | | Done |  |  |
| **4** | Apply AC 225 + 5 Volt to input and measure equality of distribution voltage across each diode | | |  |  |  |
| a) Without load | | | 150 - 180 Volts |  |  |
| b) With load | | | 95 - 100 Volts |  |  |
| **5** | Check the resistance of power fuses by Milli Ohm meter | | |  |  |  |
| a) 800 V - 500 A fuse | | | 0.1 to 0.3 m Ω |  |  |
| b) 1000 V - 1000 A fuse | | | 0.0952 m Ω |  |  |
| **6** | Check the operation of signal fuse and micro switch | | | Operating properly |  |  |
| **7** | Check the working of MVSI and QVSI by keeping HVSI in all positions | | | Proper |  |  |
| **8** | Fit the HVSI 1+2 switch in reverse position (Terminal downward) | | | Fitted |  |  |
| **9** | Measure and record insulation resistance | | |  |  |  |
| a) AC & DC surge circuits together to each (frame) by 2.5 kV megger | | | 10 M Ω (Min.) |  |  |
| b) 380 V AC circuit terminals meter breaker terminals to frame by 1 kV megger | | | 10 M Ω (Min.) |  |  |
| c) Control 110 V DC circuit terminal of air pressure relay Pacco Switch micro switch  to frame, by 1 kV megger | | | 10 M Ω (Min.) |  |  |
| **10** | HV Test to be done | | |  |  |  |
| a) AC & DC surge circuits A & DC bus bars to frame | | | 5 KV for 1 Min. (withstand) |  |  |
| b) 380 V AC circuit terminals Pacco switch terminal to earth (frame) | | | 3 KV for 1 Min. (withstand) |  |  |
| c) Control 110 V DC Ckt. terminal of Air pressure relay Pacco switch micro switch to  frame. | | | 1.5 KV for 1 Min. (withstand) |  |  |
| **11** | Apply single phase AC supply at input terminal and output DC voltage to be checked | | |  |  |  |
| (without load) IP | | | 190 - 240 V AC |  |  |
| OP | | | 280 - 350 V D C |  |  |
| IP | | | 190 - 240 V AC |  |  |
| OP | | | 170 - 235 V DC |  |  |
| **12** | Any other remarks | | |  | | |

Name & Sign of staff Name & Sign of Supervisor