

मध्य रेल



मंडल रेल प्रबंधक कार्यालय

संरक्षा शाखा, नागपुर

रेलवे : 55604

बीएसएनएल

0712-2560128

दिनांक : 29th June 2024

संख्या: NGP/SFT.101.Z/Safety Instns.

SAFETY INSTRUCTION NO 06/2024-25

All Concern Nagpur Division.

SUB: - PREVENTION OF LOCO FAILURE AND UNUSUAL IN LOCO DURING RUN IN MONSOON PERIOD.

To curb the loco failures on line and to avoid abnormal situation during monsoon, follow the following precautions: -

A. Precautions For Conventional Ac Electric Locomotives: -


- Roof joints with super-structure-roof gasket should be in good fettle (condition).
- Proper working of wipers should be ensured.
- Provision of head light dome and protection cap over horns and sand boxes.
- Replacement of Silica gel of transformer and GR breather.
- Paraffin/ petroleum jelly should be applied to the terminals of lead acid battery.
- Check TM inspection covers and terminal blocks cover gasket and replace them, if necessary.
- Ensure proper functioning of water separation and drain cock of the pneumatic pipe system. During monsoon, the pneumatic system should be drained more often to discharge the accumulated water.
- Ensure adequacy transformer/ GR oil levels and also ensure healthy condition of silica gel.
- Drain cock and sampling cock covers of transformers are to be sealed properly to avoid moisture entry.
- Check for any oil leakage from transformer, Tap Changer (GR), MPH circuit, traction converter, oil pump and other accessories & ensure appropriate oil levels in all these equipment between minimum and maximum levels.
- Condition of air filters and OCU gasket to be ensured.
- Filter cleaning as per RDSO guideline shall be carried out.

B. Additional Precautions to Be Taken in Sheds for Three Phase Ac Electric Locomotives: -

- Replacement of Silica gel of Converter.
- The transformer and converter oil should be tested for dielectric strength in a cycle and filtered if BDV is less than 40 kV.
- Insulation resistance of vital equipment like TM, Auxiliary blowers lying on shop floor to be improved by baking in oven, varnishing and proper covering.
- Checking of Megger value of Harmonic filter Resistance and cleaning if required.
- Battery box covers to be made water tight.
- Ensure proper closure of sand box cover to prevent ingress of water.

C. Precautions to be taken by Crew: -

- Be extra cautious and vigilant for damages /obstructions caused due to heavy rain.
- Observe signal indications carefully as signals are difficult to read due to heavy rain.
- Keep the train under full control so that train can be stopped immediately in case of obstructions or danger.
- While taking over the charge, ensure that sand boxes have sufficient quantity of dry sand, sanders are functional and filled with dry sand.
- Ensure drainage of moisture from reservoirs to avoid loco failure in this weather.
- Check caution order for SR 30 KMPH or less in stall prone zone, inform TLC/SCOR well in advance for providing Banker engine as may be required.
- Inform TLC about any defect/shortage like roof leakage, side shutters and window glass and also record it in the loco log book.
- Pay special attention while transiting tunnels, through cuttings or bridges and drive with continuous whistle blowing and be cautious.
- Sand filling in sanders at NGP, BTBR, BPQ, GGS, MJRI & AMLA and TEO & DHQ (in Banker locos) will be done by regularly.
- Once the load stalls in gradient and the wheels start slipping, do not try to pull the load, as it may cause rail burn / wheel skids, immediately ask for Assisting engine.


(V. K. PANDEY) 29.06.24
SR DSO/NGP

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