
Chief Electrical Engineers,
All Indian Railways (Electrified).

Sub: Evolving Grid Management Strategies to minimize the impact of power supply failure on train operations.

Recent punctuality analysis on OHE account has shown that there were 35% incidences of failures on account of grid failures resulting into loss of punctuality of 34% M/E trains during April-May 2012-13. It is thus imperative to chalk out a suitable action plan so as to minimize the impact of grid failures on train operations. Attention is invited to Para 20107 related to operating instructions for grid sub-stations and para 20206 regarding tap setting on traction transformers for ensuring that the voltage does not fall below 19 kV at any time.

During the recently concluded performance review meeting of CEE held on 24th April 2012, Board (ML) expressed his concern for increased number of failure and advised Zonal Railways in his address to chalk out “Grid Management Strategies” to reduce power supply failure incidences and also to minimize the impact of such failures.

Accordingly, to minimise the impact of grid failures, Zonal Railways should adopt following measures as a part of ‘Grid Management Strategy’:

- Strict compliance for implementation of relevant paras of ACTM to ensure maintaining desired voltage of OHE.
- Extension of feed from adjacent TSSs in shortest possible time.
- Upgrading SCADA system to improve faster response from RTUs.
- Interacting with DISCOMs/SEBs for quick extension of grid supply from alternate source at 132 kV or higher voltage.
- Reviewing the feed extension procedure of DISCOM regarding prior approval of SLDC/CLDC to ensure minimum time taken by DISCOM for feed extension to Railway TSS.
- Regular co-ordination meeting with DISCOMs for prioritizing power supply to Railways.
- Pursuing inter-connectivity of state transmission network with PGCIL network for improving the stability of grid.

You are accordingly advised to ensure implementation of above strategies and submit a compliance to this office for perusal of Board (ML).

(S.K. Saxena)
Exe. Dir. Elect. Engg. (Mgt.)
Railway Board

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