## GOVERN THE OF INDIA TRIGHTY OF HALL MYS HTGHERT TRIGHT HAD STANDEDS ORGANISATION

No.FL/3.1.3

Manak Nagar?Lucknow-226011 Deted: 21.9.84

## HODIFICATION SHEET NO. WAR4/135

## MODIFIED MID-POINT FURTHING SCHEME FOR WAMA LOCOS UBJECT:

- 1.1 4DGO had vide letter No.EL/3.1.3 dt.28.1.82 recommended adoption of midepoint earthing scheme as per GLW's modification sheet No.GLW/WAR4/107 dated 30.12.81.
- 1.2 The above recommended scheme has following draw-o-cks:
- The GOP is not sensitive to fults occurring at points were two Traction Motor armainres are connected in series on a 25-3P locomotives.
  - The COP relay being power operated, is insensitive at lower notches.
  - There is no facility of checking relay operation during iT testing.
- 1.3 This modification sheet suggests an improved version of mbd-toint earthing whim is simple, eliminates post of the draw-backs referred in page 1.2.

The basic scheme is shown in RDSO Sketch No. SKEL-3750, consists of willising llo? battery with the mid-point earthing icheme. With this provision the battery voltage is made wailable for QC operation during L.T. testing and detection if earth faults during online range of loco operation. The system is also more sensitive than the conventionally used QCP system.

2. MORK TO BE CARRIED OUT:

The power creuit of WAM4 locks is to be modified in line with REGO Drs. No. SKEL-3750

- 3. APPLICATION TO THE CLASS OF LOCOS:
  - 111 WAYA loca(except these provided with Hitachi ES 1050 motors)
- 4. MATERIAL REQUIRED:
- 61) 6.2 k = 100 Wath resistances = 8 Nos.

....2/-

5. MATERIAL RENDERED SURPLUS:

Resistor RPOOP - 1502 475W

- 1 No.,

6. REFERENCE

CLW modification Sheet No.CLW/WAM4/107 dt.30.12.81 Rly.Bd.'s letter No.83/Flec(TRS)/440/17 dt.11.11.83.

7. MODIFICATION DRAWINGS

.. RDSC Drg.No. WEL-3750.

8. AGENCY FOR MODIFICATION

All POT Shops, Electric Loco Sheds maintaining WAMA lcomotives.

9. DISTRIBUTION

As per at ached mailing list.

DA:Drg.No.SKEL-3750.

(H.K.Johri)
for Director General/Bleet.

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