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लखनऊ - 226 011
Government of India-Ministry of Railways
Research Designs & Standards Organisation
LUCKNOW - 226 011

No.EL/3.2.10/11

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SPECIAL MAINTENANCE INSTRUCTION NO.RDSO/ELRS/SMI/177
SETTING OF QLM AND QRSI RELAYS FOR WAG-7 LOCOS

1. OBJECT

- 1.1** Railways have reported spurious tripping through QLM relay on WAG-7 locos. On study of the problem it is noted that at full rated power and 17.5KV of catenary voltage, the current drawn from OHE is around 320 A. Which is more the 300 A. (corresponding to existing relay setting). under these circumstances QLM relay will cause tripping without any actual fault. This, therefore, requires revision even in the existing setting of QRST relays for these classes of locomotives.

- 1.2** This SMI lays down the revised setting of QLM and QRSI relays on WAG-7 class of locomotives.

2. INSTRUCTIONS

2.1 QLM Relays

change the present setting of QLM relay from 6 Amps to 9.0Amps corresponding to 450 Amps of catenary current which will avoid spurious tripping and at the same time ensure sufficient safe working.

2.2 QRSI Relays

Change the present setting of QRSI relay from 4.5 Amps. to 5 Amps. corresponding to 4000 Amps. of main circuit current.

3.0 PRECAUTIONS

As the relays are interchangeable, it should always be ensured that QLM and QRSI relays the correctly set before fitment on any 25KV ac, ac/dc or WAG-7 class of locomotive.

4.0 INSTRUCTION DRAWING

Nil

5. APPLICATION ON CLASS OF LOCOMOTIVES

All QLM and QRSI relays menat for fitment on WAG-7 class of locomotives.

6. AGENCY FOR IMPLEMENTAION


- All AC elctric loco sheds and shops homing WAG-7 class of loco.
- CLW to revise the setting of QLM and QRSI relays for the current and future build WAG-7 locos.

7. DISTRIBUTION

Chief Electrical engineers,

- Central Railway, Bombay VT-400 001.
- Western Railway, Churchgate, Bombay-400 020.
- Eastern Railway, Fairlit place, Calcutta-700 001.
- Northern Railway, Baroda House, New Delhi-110 001.
- Southern Railway, Park Town, Madras-600 003.
- South Eastern Railway, Garden Reach, Calcutta-7000 043.
- South central Railway, Secunderabad(AP).
- Chittaranjan Locomotive Works, Chittaranjan(WB)-713 331.
- Secretary (Elec. Traction), Railway board, New Delhi-1.

ENCL:Nil.



(R.N.LAL)
for Director General/Elect.