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अनुसंधान अधिकल्प और मानक संगठन
लखनऊ - २२६०११
Government of India - Ministry of
Railways
Research, Designs & Standards
Organization, LUCKNOW -
226011

No. EL/3.2.172

Date: 2.06.2008

Modification Sheet No. ELRS/MS/0364 (Rev. '0')

Title:

Modification in inspection covers of Hitachi Traction Motors (HS-15250A) of Electric Locomotives.

1. Object :

- 1.1. Hitachi (HS-15250A) Traction Motors of Electric Locomotives are having provision of inspection cover with a hook and latch assembly on magnet frame for holding inspection cover.
- 1.2. In existing arrangement weld area in magnet frame is less for welding of latch, as a result during running of locomotives it is uprooted due to ballast hitting/cattle runover and cover fell down, leading to withdrawal of locomotives from service. Railways are facing problem of dropping of inspection covers.
- 1.3. WR reported 12 cases in 2005-2006 and 04 cases in 2006-2007 of dropping of inspection covers.
- 1.4 This matter was highlighted during XXXII MSG held at SE Railway on 10th & 11th Jan. 2008 as a new item from WR. Group discussed this matter in detail and it was recommended that RDSO shall study the problem and suggest remedial measures to Railways.
- 1.5 In view of above, inspection cover and its mounting arrangement have been modified, in consultation with loco sheds.

2.0 Work to be carried out :

- 2.1 Existing hook and latch assembly on the magnet frame shall be cut and left out material shall be removed by grinding.
- 2.2 Two threaded blocks of size 40x40x15 mm as per RDSO Drg. No. SKE' - 4737 shall be welded on the location of hook and latch assembly on axis of inspection window.

2.3 Modified inspection covers as per RDSO Drg No. SKEL-4737 shall be provided with the help of two hex a head bolt size 18x40mm and 8.8 grade with two threaded blocks. Adequate number of flat/spring washers may be used to avoid any gap between inspection cover & magnet frame to ensure and to ensure tightness of inspection cover.

3.0 Application :

All Traction Motors type HS-15250A of Electric Locomotives

4.0 Material Required:

Inspection cover, (threaded blocks and hex a head bolts as per drg no. SKEL-4737 (threaded block of size 40 x40x15 mm & bolt of size 18x40mm of 8.8 grade)

5.0 Material rendered surplus: Existing inspection cover, latch and hook assembly.

6.0 Modification Drawing No. :

SKEL-4737 Rev'0'

7.0 Periodicity of Implementation:

7.1 When ever existing Traction motors are taken out for IOH, AOH & POH and any other repair work.

7.2 In all new manufacturing motors.

8.0 Agency of implementation :

8.1 All Sheds & workshops

8.2 CLW , BHEL, CGL, KEC & REPL and any other approved source

9.0 Distribution:

As per enclosed list.

DA: as above


(Ganesh)
for Director General (Elec.)