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भारत सरकार – रेल मंत्रालय
अनुसंधान अभिकल्प और मानक संगठन
लखनऊ – 226011
Government of India - Ministry of Railways
Research, Designs & Standards Organization,
LUCKNOW - 226011

No. EL/3.1.35/2

Dated 05.09.2008

Chief Electrical Engineers,

- Northern Railway, Baroda House, New Delhi-110 001
- East Central Railway, Hazipur – 844 101 (Bihar)
- Central Railway, 2nd floor, Parcel Office Bldg., Mumbai CST-400 001
- South Central Railway, Rail Nilyam, Secunderabad – 500 071.
- Chittaranjan Locomotive Works, Chittaranjan-713 331 (WB)

MODIFICATION SHEET NO. RDSO/2008/EL/MS/0366 (Rev.0) , Dated 29.08.2008.

1.0 Title:

Provision of Inspection Window in filter cubicle.

2.0 Object:

Due to inaccessibility for visual inspection of contactor panel of filter cubicle in 'ON' position, it is impossible to check the tightness of power cables and shorting bus bars for its looseness as well as visual inspection for any heat mark etc. from outside.

To overcome the said problem, ELS/GMO has carried out a modification in filter cubicle panel by providing a window of 360mm X 280mm on the left side of filter cubicle panel, which is helpful in providing accessibility for the visual inspection of contactor panel, power cables and bus bar connections during every maintenance schedule/periodical inspection of locomotive in shed.

3.0 Existing Arrangement with cross-references of respective design document:

Earlier, no inspection window was provided. But later, CLW started providing smaller size inspection window (310mm x 210 mm).

4.0 Modified Arrangement to replace existing arrangement as given above in 3.0:

Inspection window of size 360mm x 280 mm is to be provided as per drawing no. SKEL-4749, Alt.'0'.

5.0 Application to class of locomotives:

WAG9, WAP5, WAP7, WAG9H.

6.0 Material Required:

- i) Cover of size 430 x 330 mm²
- ii) Hex Screw M8 x 25 (4 Nos.)
- iii) Hex Nut M8 (4 Nos.)
- iv) Flat Washer M8 (4 Nos.)
- v) Lock Washer M8 (4 Nos.)

7.0 Material Rendered Surplus:

Nil.

8.0 Reference:

Sr.DEE(TRS)/ELS/GMO's letter No. ELS/401/GMO/3P/Accident dtd. 30.05.08.

9.0 Modification Drawing:

Attached.

10.0 Agency of Implementation:

CLW and Loco Sheds holding 3-phase locomotives.

Encl: Drg. No. SKEL-4749, Alt.'0'

(Sandeep Srivastava)
for Director General/Elect.

Copy to:-

1. **Secretary (Electric Traction),** Railway Board, Rail Bhavan, New Delhi-110 001

2. **Chief Electrical Loco Engineers,**

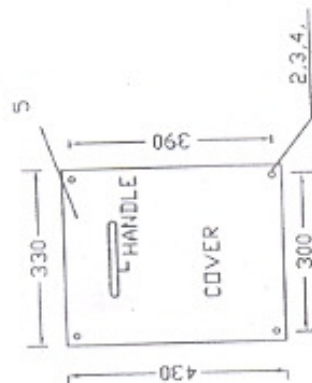
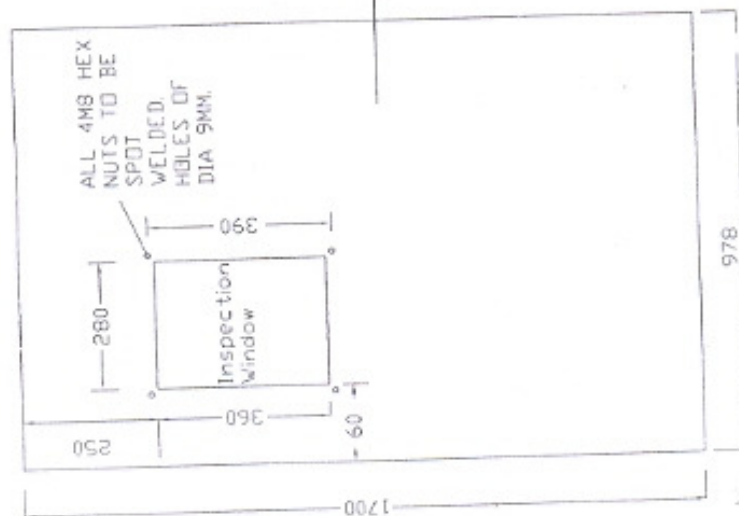
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- East Central Railway, Hazipur – 844 101 (Bihar)
- Northern Railway, Baroda House, New Delhi-110 001
- South Central Railway, Rail Nilyam, Secunderabad – 500 071.

3. **Sr. DEE (TRS), Electric Loco Sheds,**

- Central Railway, Ajni (Nagpur)-440008
- East Central Railway, Gomoh-828 401
- Northern Railway, Ghaziabad (UP)- 201001
- South Central Railway, Lalaguda, Secunderabad – 500 017.

Encl: As above

104 08/09/08
(Sandeep Srivastava)
for Director General/Elect.



NOTE:

1. MATERIAL SHALL CONFORM TO DIN 17440 X 6CrNi Ti 1810/ASTM-A240 GR 321.
2. ALL THE NUTS TO BE SPOT WELDED WITH PANEL.
3. TO BE ACID WASHED TO REMOVE BURN MARKS.

5	COVER	1	ST.ST.	SPEC	
4	LOCK WASHER M8	4	ST.ST.		
3	FLAT WASHER M8	4	ST.ST.		
2	HEX. SCREW M8X25	4	ST.ST.		
1	PANEL 2 1/2 THICK	1	STAINLESS STEEL		
REF. NO.	PART NO.	DESCRIPTION	DETAIL DRG. NO.	REVISED	MATL.
				APPRO. BY	DATE
				SCALE	
					0' OR 1" = 1"

INSPECTION WINDOW OF FILTER CUBICLE

RDSD ELECT. DTE.	SKEL-4749 ALT. '0'	SUPERSEDED BY
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