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भारत सरकार – रेल मंत्रालय
अनुसंधान अभिकल्प और मानक संगठन
लखनऊ – 226 011

Government of India - Ministry of Railways
Research Designs & Standards Organization
LUCKNOW – 226 011

No. EL/3.2.29/6

Dated 29.02.2008

Chief Electrical Engineer,

- Central Railway, Mumbai CST-400 001.
- Northern Railway, Baroda House, New Delhi-110 001.
- North Central Railway, Hastings Road, Allahabad- 211001
- Eastern Railway, Fairlie Place, Kolkata -700 001.
- East Central Railway, Hazipur-844101.
- East Coast Railway, Chandrashekharapur, Bhubaneshwar-751016.
- Southern Railway, Park Town, Chennai-600 003.
- South Central Railway, Secunderabad-500 371.
- South Eastern Railway, Garden Reach, Kolkata -700 043.
- South Western Railway, 4th Floor, Laxmi Balakrishna Square Complex, Railway Station Road, Hubli- 580 020 (Karnataka).
- South East Central Railway, Bilaspur-495004
- Western Railway, Churchgate, Mumbai-400 020.
- West Central Railway, Jabalpur-482001.
- Chittaranjan Locomotive Works, Chittaranjan-713 331 (WB)

MODIFICATION SHEET NO. RDSO/2008/EL/ MS/0358, REV.'0'
DATED 27.02.2008

1. TITLE :

Provision of 16th Notch regression in SMGR in electric Locomotives provided with Roof Mounted DBR.

2. OBJECT :

To increase the effectiveness of roof mounted naturally cooled DBR provided on WAP4 class of Electric Locomotive.

3. EXISTING ARRANGEMENT :

RDSO vide letter No. EL/3.2.29 dated 25.01.2001 have issued instructions to Railways for setting of QF relay and auto

regression on WAP-4 class of Electric Locomotive provided with naturally cooled Dynamic Braking Resistor.

- i) QF Setting - 850 Amps.
- ii) Auto Regression - 10th Notch

For regression of Tap changer above 10th notch Cam No. 65-66 (cable No. 099 & 115) with CTF2 (Cable No. 700 & 099) braking interlock has been provided in Q51 relay circuit.

4. MODIFIED ARRANGEMENT :

To improve the effectiveness of the Dynamic Braking , RDSO vide letter No. EL/ 3.2.29/6 (DRI) dated 25.08.2005 have revised the setting of QF relay and auto regression of GR :-

- i) QF setting - 850 Amps.
- ii) Auto Regression - 16th Notch

In the present SMGR, 16th notch Cam is not available to incorporate the above modified setting. The modified Cam as per RDSO Drawing No. SKEL-4729, Alt. '0' shall be provided in position 65-66 as per instruction laid down in the Maintenance Manual of M/s. Bombardier.

5. Application to Class of Locomotive :

WAP1 and WAP4 class of Electric Locomotives provided with naturally cooled Roof Mounted DBR.

6.0 MATERIAL REQUIRED :

Modified Cam as per RDSO's Drawing No. SKEL-4729, Alt. '0'

7.0 MATERIAL RENDERED SURPLUS :

Existing 10th Notch Cam.

8.0 REFERENCE :

CLW's letter No. ELDD/3248/CRJ-1 dated 19.02.2008 requesting RDSO to issue necessary amendment on the subject.

9.0 MODIFICATION DRAWING :

RDSO's Drawing No. SKEL-4729, Alt. '0'

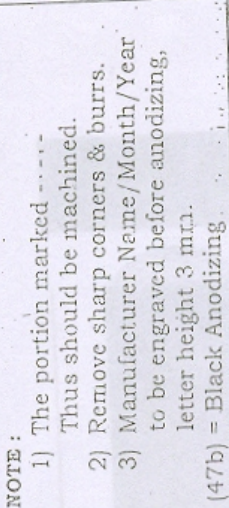
10.0 AGENCY FOR IMPLEMENTATION :

All Electric Loco Shed, POH Shops & CLW.

Encl: Drg. No. SKEL-4729, Alt. '0' (Kishore Kumar)
for Director General/Elect.

Copy to : As per Mailing List

Encl: Drg. No. SKEL-4729, Alt. '0' (Kishore Kumar)
for Director General/Elect.



MODIFIED CAM DISC FOR TAP CHANGER NO.- 32	RDSO. ELECT. DTE.	SKEL - 4729, Alt. 'O'	SUPERSEDED BY	SUPERSEDES	✓ FIRST ISSUED

STATUS	ALI.	REF. NO.	DESCRIPTION	APPD. BY	DATE
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21.02.2008	D V.K.YADAV	C M.C.MAHANT	T
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