

Telex : 0535 - 2424 RDSO -IN  
Fax : 91-0522-450374  
Telephone : 450374 & 451200  
Telegram : 'RAILMANAK', Lucknow  
e-mail : edse@sancharnet.in  
: edse@rdso.railnet.gov.in  
: dell1@rdso.railnet.gov.in



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

SN/1879

No. EL/3.1.38

Date: 28-8-2002

### Modification Sheet No. ELRS/MS/0317 २-१

#### Chief Electrical Engineers,

1. Central Railway, Chhatrapati Shivaji Terminus, Mumbai-400001.
2. Eastern Railway, Fairlie Place, Kolkata-700001.
3. Northern Railway, Baroda House, New Delhi-110001.
4. Southern Railway, Park Town, Chennai-600003.
5. South Central Railway, Rail Nilayam, Secunderabad-5000071.
6. South Eastern Railway, Garden Reach, Kolkata-700043.
7. Western Railway, Churchgate, Mumbai-400020
8. Chittaranjan Locomotive Works, Chittaranjan-713331.

1.0 **Title:** Modification in MVRF circuit of non-modular WAG-7 locomotives

2.0 **Object:**

In non-modular WAG-7 locomotives (upto loco nos 27199) MVRF is connected across traction motor no. 1 with CTF normally open contact on negative side of traction motor armature circuit. This results in MVRF being subjected to full TM voltage in traction when MVRF is not in service. This could be avoided to help in improving reliability of MVRF.

3.0 **Work to be carried out:** MVRF connection to RF1 terminal at 1R1 and 1R2 be opened and be connected across RF2 terminal to 2R1 and 2R2 i.e. MVRF put across TM2 instead of TM1.

4.0 **Materials required:** Nil

5.0 **Application to class of locomotives:** All non-modular WAG-7 locomotives upto loco nos 27199

6.0 **Materials rendered surplus:** Nil

7.0 **Reference:** CEE/CR-MCDO to ML for month of June'2002, docketed to RDSO vide Railway Board's letter no. 98/Elec (TRS)/441/10 Vol. II dt 30-7-2002.

8.0 **Modification of Drawing:** RDSO's drawing no. SKEL-4632

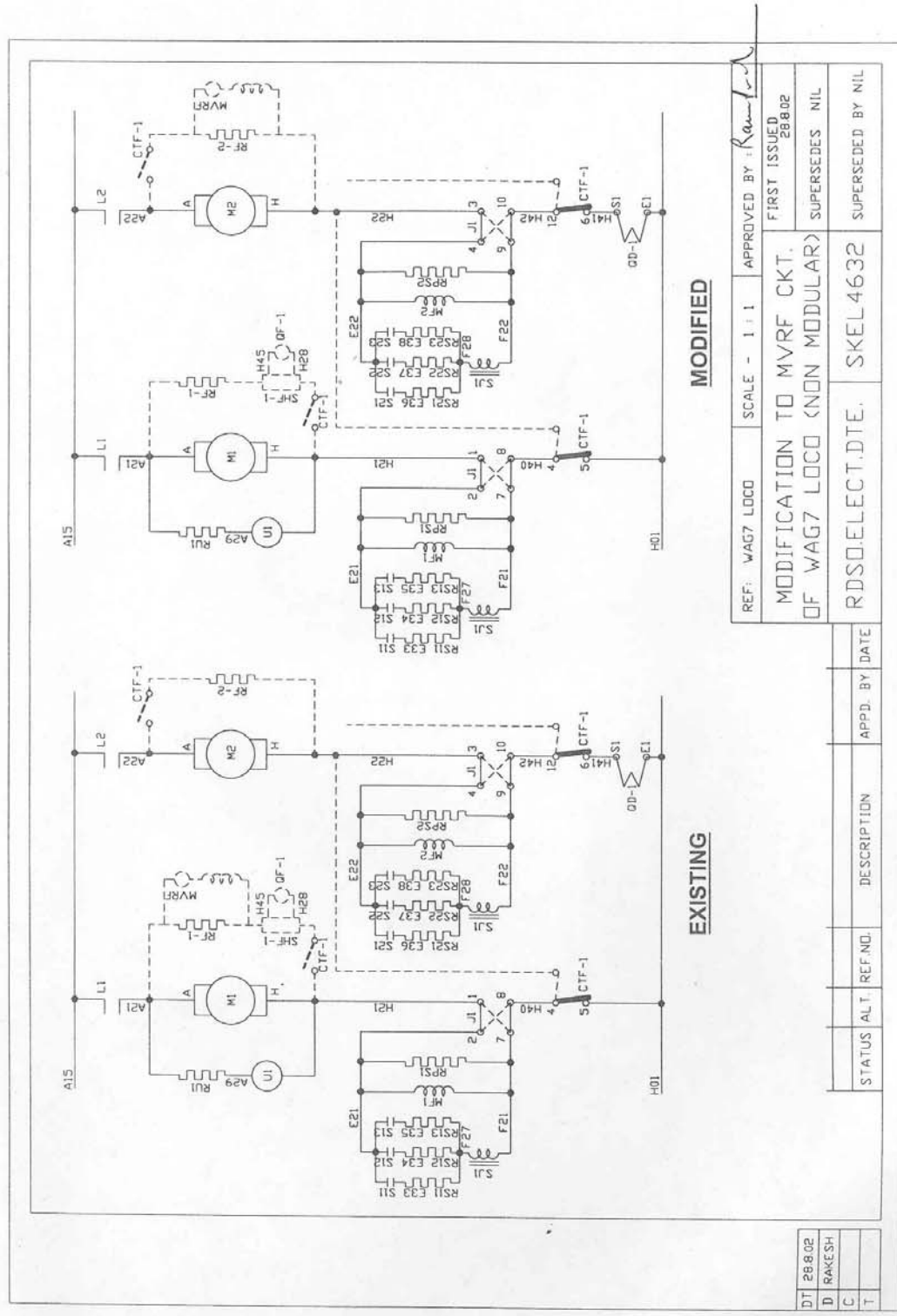
9.0 **Agency of implementation:** All electric loco shed having above WAG-7 locos and workshop.

DA: Drawing no. SKEL-4632

*Ram Prakash*  
(R. Prakash) 28-8-02  
for Direction General Std/elect

CC: As per Distribution List No. EL/M/0028-Ver '1'

9/c  
Issued  
21/09/02  
2-9/02



REF: WAG7 LOCO	SCALE - 1:1	APPROVED BY: <i>Ram</i>
MODIFICATION TO MVRF CKT. OF WAG7 LOCO (NON MODULAR)		FIRST ISSUED 28.8.02
RDSOELECT.DTE. SKEL4632		SUPERSEDES NIL
		SUPERSEDED BY NIL

DT 28.8.02
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STATUS	ALT.	REF. NO.	DESCRIPTION	APPD. BY	DATE