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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/3.1.14

Date: 10.09.09

Chief Electrical Engineers,

- 1 Central Railway, Mumbai CST- 400 001.
- 2 Eastern Railway, Fairlie Place, Calcutta- 700 001
- 3 Northern Railway, Baroda House, New Delhi-110 001
- 4 Southern Railway, Park Town, Chennai-600 003
- 5 South Central Railway, Rail Nilayam, Secunderabad –500 071
- 6 South Eastern Railway, Garden Reach, Calcutta-700 043
- 7 Western Railway, Churchgate, Mumbai-400 020
- 8 East Cost Railway, Chandrashekharpur, Bhubaneshwar- 751 016.
- 9 North Central Railway, Hasting Road, Allahabad-211 001.
- 10 East Central Railway, Hazipur-844101 (Bihar)
- 11 South Western Railway, Hubli-580023
- 12 West Central Railway, Jabalpur-482001
- 13 South East Central Railway, Bilaspur-495004

MODIFICATION SHEET NO.RDSO/2009/EL/MS/ 0382 (REV.0), dated: 08.09.2009

1. Title

Modification in QVCD interlocks connection in Q51 circuit

2. Background:

In the locomotives where Vigilance Control Devices are provided, a PC8 relay called QVCD is also provided for emergency braking through IP Valve and causing regression through Q51 relay in the event of VCD going into penalty brake cycle in case the driver is inattentive. Due to problems of wheel slipping, normally Q51 is wedged by the drivers, which can cause problematic situation of emergency brake application but regression not taking place due to use of QVCD interlock in Q51 circuit.

3. Object

To overcome situation of emergency brake application but regression not taking place due to use of QVCD interlock in Q51 circuit.

4. Existing Arrangement

As per circuit as annexure-I.

5. Modified Arrangement

As per modified as annexure-II.

6. Work to be carried out:

123627

N/O interlock of QVCD relay which is presently connected between wire no. 810 & 115 should be removed and connected between 810 & 055. The existing and modified circuit is attached.

7. Application

25 kV Tap changer electric locomotives fitted with vigilance control device.

8. Material required

Nil

9. Material rendered surplus

Nil.

10. Reference

Nil

11. Modification drawing

Attached

12. Periodicity of Implementation

One time (when ever VCD is fitted in locomotive or loco already fitted VCD with unmodified circuit is taken in schedule maintenance

13. Agency of implementation

Electric Loco sheds and manufacturers having 25 kV Tap changer electric locomotives fitted with vigilance control device.

21/11/2019
(Sandeep Srivastava)

for Director General /Electrical

DA: as above.

Copy to:-

1. Secretary

(Electrical Traction), Railway board, Rail Bhawan, New Delhi-110001.

2. Sr.DEE(TRS),Electric Loco sheds

As per standard mailing list no. EL/M/0019 amendment -3


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(Sandeep Srivastava)
for Director General /Electrical

123628

3. Chief Electrical Engineer,

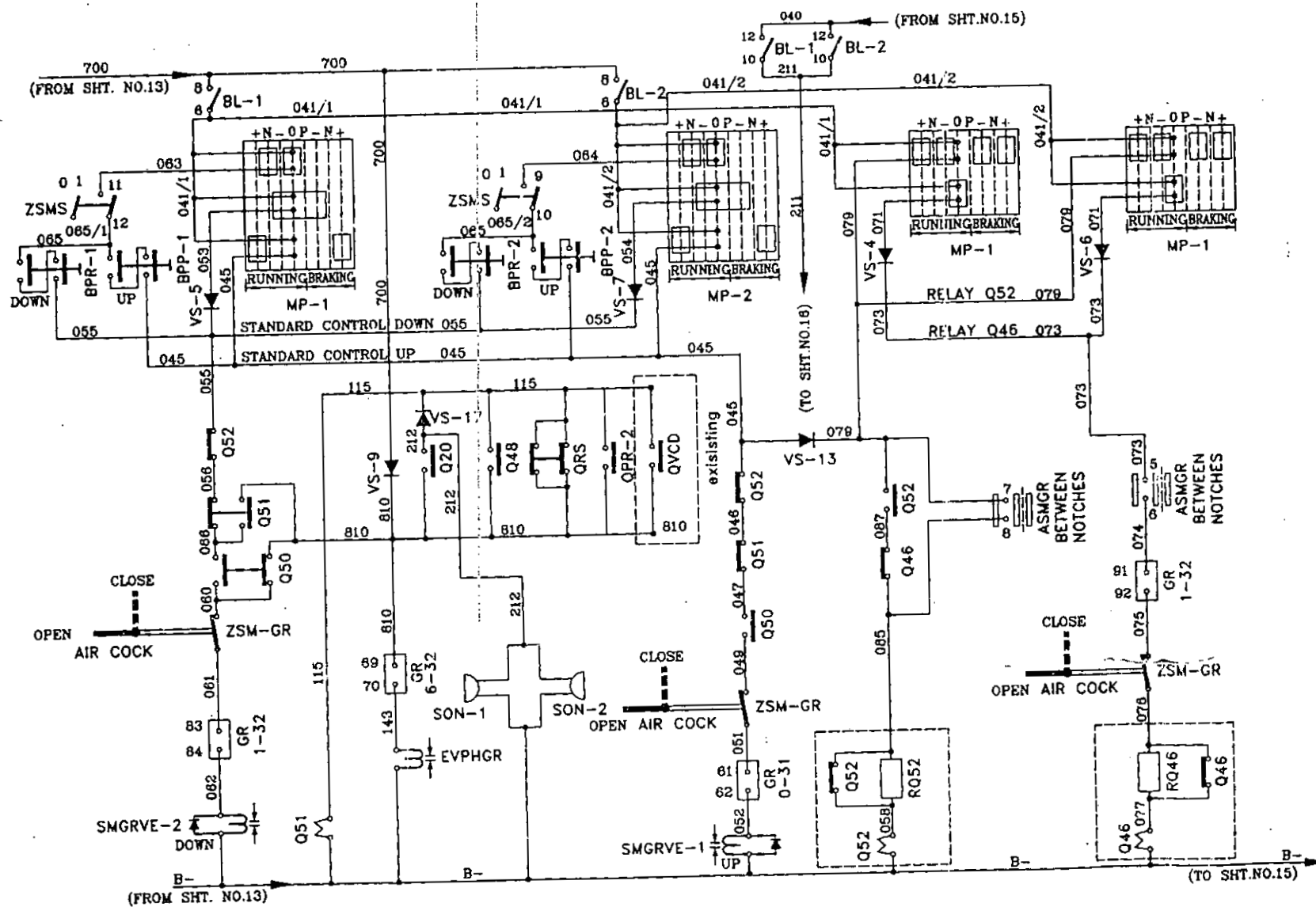
- Northern Railway, Baroda house, New Delhi – 110 001
- East Central Railway, Hajipur (Bihar)-
- Central Railway, Mumbai CST-400 001
- West Central Railway, Jabalpur
- South Central Railway, Rail Nilayam, Secunderabad
- South Eastern Railway, Garden Reach, Kolkata

Encl: As above


(R. N. Lal)
For Director General (Elect.)

O/C

Existing Circuit



Modified Circuit

Annexure-II

