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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 Electrical

Dated 09.11.2012.

Chief Electrical Engineers,

- East Central Railway, Hazipur – 844 101 (Bihar)
- South East Central Railway, Bilaspur-495 004.
- West Central Railway, Jabalpur 482 001.
- Northern Railway, Baroda House, New Delhi-110 001.
- Central Railway, 2nd floor, Parcel Office Bldg., Mumbai CST-400 001
- South Central Railway, Rail Nilyam, Secunderabad – 500 071.
- Eastern Railway, Fairlie Place, Kolkata -700 001.
- South Eastern Railway, Garden Reach, Kolkata-700 043
- Southern Railway, Park Town, Chennai-600 003
- Western Railway, Churchgate, Mumbai –400 020
- Chittaranjan Locomotive Works, Chittaranjan-713 331 (WB)

MODIFICATION SHEET NO. RDSO/2012/EL/MS/ 0411 (Rev.1) , Dated 2.11.12.

1.0 Title:

Modification sheet to avoid simultaneous switching ON of White and Red marker light in three phase locomotives.

2.0 Object:

In conventional locos only single coloured marker light ie. Red or White can be switched ON at a time. Whereas in three phase locomotives both lights can be switched ON at a time, which is not desirable. Hence modification sheet no. RDSO/2012/EL/MS/ 0411 (Rev.0) , dated 5.6.12 was issued by RDSO. Now ELS/GMO vide letter no. ELS/401/GMO/3-Ph/RDSOMS dated 14.08.12. informed that in implementing Rev.0 of the modification sheet, it was found that if both the switches ie. switch marker light white (Sch. Pos. 316.11/1) and switch marker light red (Sch. Pos. 316.12/1) are switched ON simultaneously then no marker light glows which is not exactly identical to the conventional loco and in such condition only red marker light should glow. In view of above Revision-1 to modification sheet No. RDSO/2012/EL/MS/ 0411 (Rev.0), dated 5.6.12 is being issued. This Rev.'1' of the Modification Sheet supersedes Rev.'0' of modification sheet No. RDSO/2012/EL/MS/ 0411 dated 5.6.12.

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

In the circuit diagram links are provided between position 1 of switch marker light White (Sch. Pos.316.11/1) and position 4 of switch marker light Red (Sch. Pos.316.12/1) and between position 4 of switch marker light White (Sch. Pos.316.11/1) and position 2 of switch marker light Red (Sch. Pos.316.12/1). Similarly links are provided for switch marker light White and Red for other cab. The circuit diagram is enclosed as annexure-I.

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

In the modified circuit , as shown in annexure-II, one NC auxiliary contact of switch marker light Red (Sch. Pos.316.12/1) is connected in series with NO auxiliary contact of switch marker light White (Sch. Pos.316.11/1) and all the links as indicated in the Rev.'0' of the modification sheet are taken out. Similar connections are to be done in other cab.

5.0 Application to class of locomotives:

WAP-5, WAP-7, WAG-9, WAG-9H.

6.0 Material Required:

Nil.

7.0 Material Rendered Surplus:

Nil.

8.0 Reference:

- i) As per Agenda of 35th MSG item no.6 of Part IV.
- ii) ELS/GMO vide letter no. ELS/401/GMO/3-Ph/RDSO MS dated 14.08.12.


9.0 Modification Drawing:

Attached.

10.0 Agency of Implementation:

CLW and Loco Sheds holding, 3-phase locomotives.

Encl: As Above .


(Sandeep Srivastava)
for Director General/Elect.

Copy to:-

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

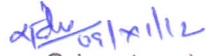
Sr. DEE (TRS), Electric Loco Sheds,

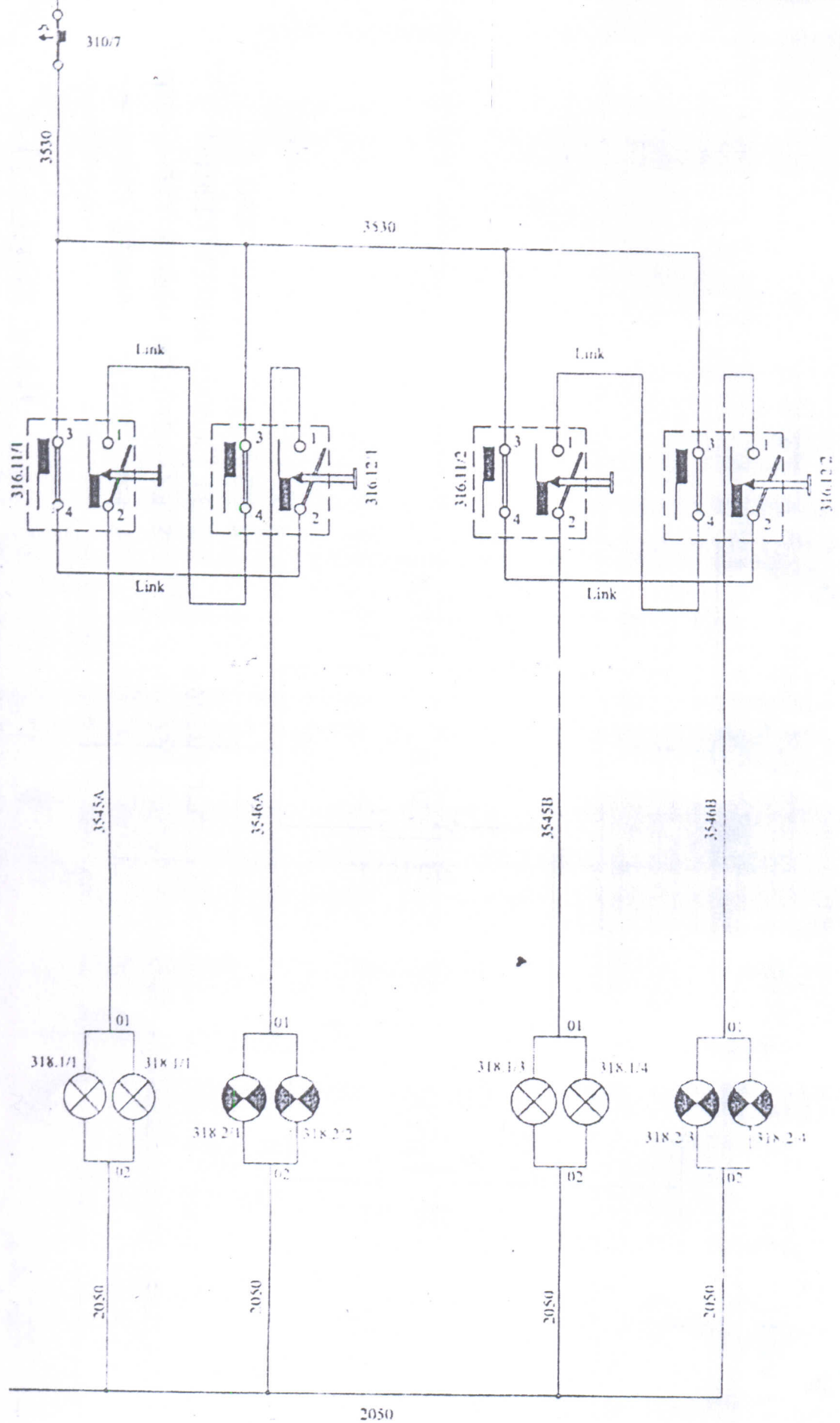
- Central Railway, Ajni (Nagpur)-440008.
- South East Central Railway, BMY Complex, Bhilai, Durg-490 025.
- West Central Railway, Tughlakabad, New Delhi-110 044.
- Northern Railway, Ghaziabad (UP)-201 001.
- East Central Railway, Gomoh-828 401

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- South Central Railway, Lallaguda, Secunderabad – 500 017.
- Eastern Railway, Howrah.
- South Eastern Railway, Tatanagar-831 002.
- Western Railway, Vadodara-390 002.
- Southern Railway, Royapuram, Chennai-600 013.

Encl: As above


(Sandeep Srivastava)
for Director General/Elect.



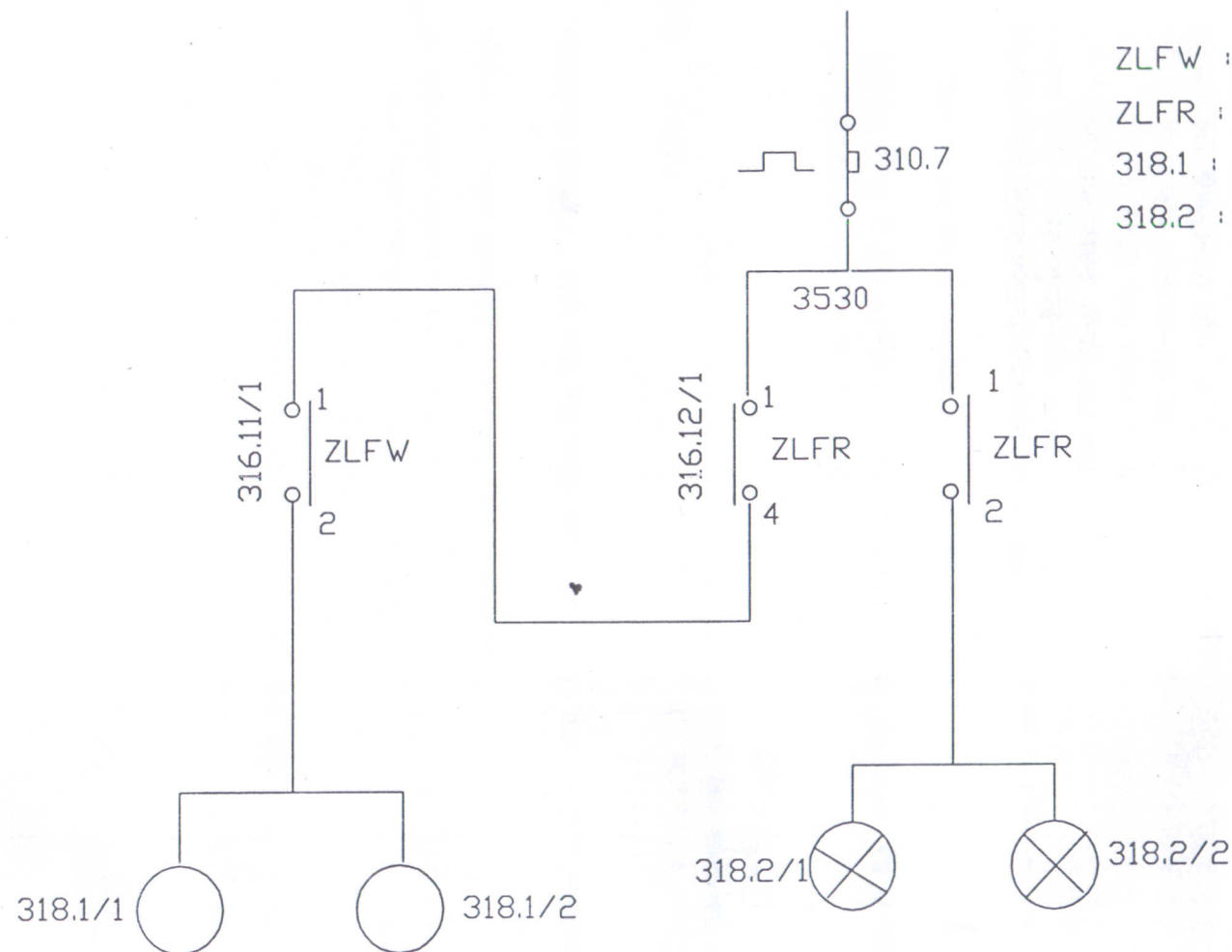
ANNEXURE-II

ZLFW : SWITCH MARKER LIGHT WHITE.

ZLFR : SWITCH MARKER LIGHT RED.

318.1 : FRONT MARKER LIGHT .

318.2 : TAIL MARKER LIGHT .



MODIFIED CIRCUIT DIAGRAM OF MARKER LIGHT.