

**Government of India,
Ministry of Railways,
Research, Designs & Standards Organisation
Manak Nagar, Lucknow – 226 011**

No. EL/3.2.19

Dated 4.10.99

Modification Sheet No. ELRS/MS/0267, Rev 'O'

1.0 Title :

Provision of ½" isolating cock without vent in place of diaphragm cock for panto circuit.

2.0 Object :

The reliability of ½ " diaphragm type isolating cock provided in the panto reservoir circuit is not good as reported by Railways. Originally when ball type cut out cocks were not developed, provision of ½ " diaphragm cock was made for the panto circuit in order to ensure air leakage from the panto reservoir to the barest minimum. Subsequently with the development of ball type cock and their use on all locations in Electric Locomotives in view of their satisfactory performance and from the consideration of poor performance of diaphragm type cock, there is no use to continue with a different variety of isolating cock. Moreover, it will also bring down the stores inventory and purchase effort required for a different type of isolating cock.

3.0 Work to be Carried Out :

Existing diaphragm type cocks to be replaced by ½" ball type cut out cock of 'open line parallel' type in the panto reservoir circuit and ½ " ball type cut out cock of 'close line parallel' type in the drain line of panto reservoir. It must be ensured that only ball type cocks and not plug type, are used in place of diaphragm cocks.

4.0 Application to the Class of Locomotive :

All A.C. Electric Locomotives.

5.0 Material Required :

- 5.1 One no. ½" ball type cut out cock of 'OLP' type.
- 5.2 One no. ½" ball type cut out cock of 'CLP' type.

6.0 Material rendered surplus :

Two nos. ½” diaphragm type isolating cocks.

7.0 Reference :

RDSO's letter No. SD.DFM.A.4.7.15 dated 16.9.92 addressed to GM/CLW.

8.0 Modification Drawings

None

9.0 Agency for Implementation

All Electric Loco Sheds, POH Workshops and CLW.

10.0 Distribution

As per enclosed list.



Encls: Nil

(O.H.PANDE)
for Director General/Elect.