

**GOVERNMENT OF INDIA
MINISTRY OF RAILWAYS
RESEARCH, DESIGNS & STANDARD ORGANISATION
MANAK NAGAR, LUCKNOW-226011**

No. EL 3.2.119

Dated: 8.11.99

Chief Electrical Loco Engineer.

- Central Railway, Mumbai CST – 400001
- Eastern Railway, Fairlie Place, Calcutta – 700001
- East Central Railway, Chandrashekharpur, Bhubaneswar – 751001
- Northern Railway, Baroda House, New Delhi – 110001
- North Central Railway, Hasting Road, Allahabad – 211001
- Southern Railway, Park Town, Chennai – 600003
- South Central Railway, Rail Nilayam, Secunderabad – 500371
- South Eastern Railway, Garden Reach, Calcutta – 700043
- South Western Railway, Bangalore – 560046
- Western Railway, Church Gate, Mumbai – 400020
- West Central Railway, Jabalpur
- New Zone Railway, Bilaspur
- Chittaranjan Locomotive Works, Chittaranjan – 713331

MODIFICATION SHEET NO. ELRS/MS/0270/REV. 'O'

1.0 Title :

Standardization of location of BP/FP isolating cocks in electric locomotives.

2.0 Object :

The problem of breakage of BP/FP isolating cocks due to cattle run over is very common in electric locomotives. From time to time, different arrangements of BP/FP isolating cocks were tried and finally the arrangement suggested vide RDSO's letter No. SD. Dev. IRAVB-2 dated 18.5.93 was found most effective in reducing the cases of BP/FP isolating cocks breakages due to cattle run over. This is also presently being followed by CLW. During CELE's Conference held recently at Railway Board, it was decided that RDSO will issue a modification sheet to standardise the final location of BP/FP isolating cocks in order to clear all existing doubts on this subject. Accordingly this modification sheet is being issued.

- 2.1 It has come to the notice that Railways are not following standard arrangement of location of BP & FP isolating cocks. Different locos have different locations of BP & FP pipes, which creates confusion and cases of mistaken wrong connections can not be ruled out which could be safety hazard. Standard arrangement had been approved

by RDSO vide letter No SD.DFM.A47.11.1 dated 15.9.95 and letter No. SD. Dev IRAVB-2 dated 18.5.93. Based on these CLW have issued drawing no 05.1.3738. Alt `IO` and 03. 1. 37. 33. Alt `O` which are the correct and final arrangement and are to be followed. During the time and also prior to Sept '95. Railways while carrying out dual brake conversions and CLW on new locomotives, different locations may be available on locos in service. It is essential to modify all locos to the standard arrangement as per CLW drawing in view of safety.

- 2.2 To avoid breakage of `BP` isolating cock due to cattle hits a safety bracket is to be provided.

3.0 Work to be carried out

- 3.1 The location for BP/FP isolating cocks to be modified as per CLW's Drg No. 05/1/37/38. Alt `10` for WAG5/WAM4/WAG7 class of locomotives.
- 3.2 The location of BP/FP isolating cocks to be modified as per CLW's Drg. No. 03/1/37/33 `Alt `O` for WAP1/WAP3/WAP4 class of locomotives.
- 3.3 The safety bracket for protection of BP. Isolating cock, against damage in case of external hitting due to cattle runover is to be provided as per RDSO Drg. No. SKEL-4542.
- 3.4 BP isolating cock is to be painted `Green` and stenciled as `BP` and `FP` isolating cock is to be painted `White` and stenciled as `FP` during every schedule.

4.0 Application to the class of locomotives:

All A.C. electric locomotives.

5.0 Material required:

As shown in CLW's Drgs. No. 05/1/37/38, Alt `10` and 03/1/37/33, Alt `O` and RDSO's Drg. No. SKEL-4542, Alt. `O`.

6.0 Material Rendered Surplus:

None.

7.0 Reference:

1. RDSO' letter No. SD. Dev. IRAB-2 dated 18.5.93.
2. S.C. Rly's letter No. C/E.40/ELS/LGD/PD-1/Vol.III dt. 27.9.99.
3. Decision taken in CELE's Conference held at Rly Board on 27-28.8.99.

8.0 Modification Drawing:

1. CLW's Drg. No. 05/1/37/38, Alt `10'
2. CLW's Drg. No. 03/1/37/33, Alt `0'
3. RDSO's Drg. No. SKEL-4542, Alt `0'


9.0 Agency for implementation:

- 9.1 All Electric Loco Sheds during AOH and POH schedule of electric locomotives.
- 9.2 POH workshops during POH schedule of the locomotives.
- 9.3 CLW in all newly manufactured locomotives.

10.0 Distribution

As per marling list.

Encl: One No. RDSO
Drg. No SKEL-4542, Alt. `0'


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

Note: Copies of the Drg. No. 05/1/37/38. Alt. `10' and 03/1/37/33, Alt `0' may be collected from CLW.

