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सत्यमेव जयते

भारत सरकार - रेल मंत्रालय  
अनुसंधान अभिकल्प और मानक संगठन  
लखनऊ - 226011  
Government of India-Ministry of Railways  
Research Design & Standards Organisation  
Lucknow - 226011



No. EL/3.2.19

Dated 21.06.2000

Chief Electrical Engineer,

- Central Railway, Mumbai CST- 400 001.
- Eastern Railway, Fairlie Place, Calcutta- 700 001
- East Central Railway, Chandrashekharapur, Bhubaneswar - 751 001.
- Northern Railway, Baroda House, New Delhi-110 001
- North Central Railway, Hasting Road, Allahabad-211 001.
- Southern Railway, Park Town, Chennai-600 003
- South Central Railway, Rail Nilayam, Secunderabad -500 371
- South Eastern Railway, Garden Reach, Calcutta-700 043
- South Western Railway, Bangalore - 560 046
- Western Railway, Churchgate, Mumbai -400 020
- West Central Railway, Jabalpur.
- New Zone Railway, Bilaspur.
- Chittaranjan Locomotive Works, Chittaranjan- 713 331

**SPECIAL MAINTENANCE INSTRUCTION NO. ELRS/SMI/0219-2000,**  
**REV. '0'**

1. TITLE : Burning of PCB on air dryer.
2. OBJECT :

Recently some cases of burning of PCB on air dryers have been reported by Zonal Railways. In this regard concerned manufacturers were asked to carry out the detailed investigation of failures. The findings of the investigations carried out by the manufacturers show that certain precautions are required to be taken by the sheds while performing routine maintenance on locomotives fitted with air dryers in the sheds.

3. APPLICATION :

For all Electric Locomotives provided with air dryers.

**4. WORKS TO BE CARRIED OUT :**

To prevent burning of P.C.B. on air dryers, following precautions are to be taken by Electric Loco Sheds during installation of air dryers and routine maintenance on locomotives fitted with air dryers ;

- 4.1 If any welding is to be carried out on underframe , ensure that the air dryer is electrically disconnected from the power supply.
- 4.2 For welding earthing should not be taken through air dryer or from a place near to the air dryer.
- 4.3 On the air dryer for electrical connections, there are three wires. First one is for positive, second one is intermittent positive (for memory circuit) and third one is for negative connection. While electrical connection of air dryer are made on loco, care should be taken that these connections are properly done after verifying the inscription on Electrical connector of air dryer.
- 4.4 PCB of air dryer should be isolated during meggering operation being done on locomotives.

**5.0 MATERIAL REQUIRED : Nil**

**6.0 MATERIAL RENDERED SURPLUS : Nil.**

**7.0 REFERENCE :**

Motive Power Directorate's letter No. SD.DFM.A.4.7.1.3 dated 31.5.2000.

**8.0 APPLICATION TO THE CLASS OF LOCOMOTIVES:**


All Electric Locomotives provided with air dryer.

**9.0 PERIODICITY OF IMPLEMENTATION :**

During routine maintenance on every visit of the locomotive to the shed trip shed.

10.0 AGENCY OF IMPLEMENTATION :

1. All Electric Loco Sheds holding locomotives fitted with air dryer.
2. CLW for all newly manufactured locomotives being fitted with air dryer
3. Electric Loco Workshops for all locomotives fitted with air dryers.


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

Encl: Nil

Copy to : As per Standard Mailing List No.EL/M/0028, Ver. '0'.

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PIN

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

Encl: Nil