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भारत सरकार - रेल मंत्रालय
अनुसंधान अभिकल्प और मानक संगठन
लखनऊ - 226011
Govt. of India - Ministry of Railways
Research, Designs & Standards
Organization, LUCKNOW - 226011

No. EL/3.1.35/16

Dtd. 05.06.2013

Chief Electrical Engineer,

- Central Railway, 2nd floor, Parcel Office Building, Mumbai CST-400 001
- East Central Railway, Hajipur-844 101
- Northern Railway, Baroda House, New Delhi-110 001
- South Central Railway, Rail Nilayam, Secunderabad-500 071
- West Central Railway, Opposite Indira Market, Jabalpur-482 001
- South East Central Railway, Bilaspur-495 004
- Southern Railway, Park Town, Chennai-600 003
- Eastern Railway, Fairlie Place, Kolkata-700 001
- South Eastern Railway, Garden Reach, Kolkata-700 043

Sub: Cleaning of Oil Cooling Radiators in 3-phase electric locos.

A number of failures have happened due to "Equipment Temperature High" (message no. F0205P2/F0305P2) this summer because of oil temperature of transformer circuit or converter circuit going beyond the prescribed limit. Cleaning of radiators plays a very important role in maintaining the temperature of oil below the prescribed limit. The cleaning of radiator is also prescribed as a pre-summer activity.

During a meeting at Railway Board on 31.05.13 on the subject item, Railways mentioned non-availability of suitable instructions for cleaning the radiators. In this connection, please refer to this office letter of even number dtd. 07.02.2012 through which maintenance activities of three phase locos were advised to Railways. As per the Minor and Major Maintenance Schedules of three phase locos (Point 25 of Minor Schedule and Point 46 of Major Schedule), the cleaning periodicity and procedure to clean the radiator has already been prescribed. Please also note that in the Major maintenance schedule, Suppliers Documentation Vol.F10 is also referred, which gives a detailed procedure including the pressure of air, pressure of water, temperature of water and cleaning agent to be used for cleaning the radiator.

In view of the above, it is advised that the schedule as prescribed by RDSO and in the manual should be followed for proper cleaning of radiators to avoid such cases of equipment temperature high.

Encl. Nil.

sdh 05/06/13
(Sandeep Srivastava)
for Director General (Elect.)

1. Secretary (Elect./RS), Railway Board, Rail Bhawan, New Delhi-1
- for kind information.

Encl. Nil.

sdh 05/06/13
(Sandeep Srivastava)
for Director General (Elect.)

O/c