

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

No.EL/3.2.1/2/J6

27.04.1985

SPECIAL MAINTENANCE INSTRUCTIONS NO RDSO/ELRS/SMI/126

**FLUSHING OF THE STAGNATED OIL IN THE NECK PORTION OF
THE FREIGHT LOCOMOTIVE TRANSFORMERS.**

1. OBJECT

Railways have reported excessive accumulation of sludge in the neck portion of the freight loco transformers resulting in the deterioration of the insulation on the tap leads and consequent short circuits. The reason for this excessive sludge accumulation is the non- circulation of oil in the neck region of the transformer to overcome this problem, RDSO has issued a Modification Sheet No RDSO/WAM4/142 which provides for an opening for easy access to this portion through which hot oil can be directed to flush out the sludge.

2. INSTRUCTIONS

- 2.1 Drain out oil from the transformer main drain plug till no further reduction in the oil level in the neck portion is expected.
- 2.2 Close the main drain plug and completely open the drain plug in the neck portion and drain out all the oil in this portion.
- 2.3 Direct a jet of hot oil through the opening as per Modification Sheet No 142 on the tap leads and the inside of the neck region cleaning the accumulated sludge.
- 2.4 Close the drain plug in the neck region and also the opening provided as per the Modification Sheet No 142.
- 2.5 Top up the transformer with fresh oil.

3. REFERENCE

- 3.1 Minutes of the meeting held on 4.8.84 at Electric Loco Shed. Kanpur with BHEL.
- 3.2 RDSO Modification Sheet No. RDSO/WAM4/142.

4. **PERIODICITY**

Every AOH of the locomotive.

5. **INSTRUCTION DRAWING**

NIL.

6. **APPLICATION OF CLASS OF LOCOMOTIVES**

All ac Electric Locomotives.

7. **AGENCY OF IMPLEMENTATION**

All ac Electric Loco Sheds and POH shops.

8. **DISTRIBUTION**

As per list enclosed.

DA: mailing list.

(M. M. PRAKASAM)
for Director General (Elect).