Government of India Ministry of Railways

Research, Designs & Standards Organisation Manak Nagar, Lucknow - 226 011

No.EL/3.2.10/ Gen 23.5.1984.

SPECIAL MAINTENANCE INSTRUCTION NO. RDSO/ELRS/SMI/119 PERIODIC APPLICATION OF LUBRICATING OIL ON THE BALANCE WHEEL OF CLOCK MECHANISM OF BBC MAKE TIMELAG RELAYS, Q44, Q118, ETC.

1. OBJECT

Sheds have observed that in BBC time lag relays the clock mechanism gots jammed due to non-lubrication of the balance wheel. The object of this SMI is to overcome this jamming problem.

2. Observations

This office has consulted BBC/Switzerland, who have advised that

2.1 The timing mechanism should not normally be oiled. The bearings are given a twice of oil (brand Gargoyle 797) in the factory and this resists deterioration for a long time. Only when the movement ceases to function regularly after a long service, it is advisable for the tips of the balance wheel which drives the movement to be moistered with a drop of GARGOYLE 797 oil.

3. Details of special instructions

- 3.1 As the gargoyl.797 oil is not indigenously availabe, procure standard good quality -*Matter not readable*-clock oil from reputed watch dealar.
- As and when jamming is experienced, use the oil as directed bythe firm vide para 2.1 above.

Note: Excessive oiling will cause sticking of the moving parts. the parts should only be moistened with a trace of oil.

4. Reference:

- 4.1 HBB's letter to CD.RLS/501/PUB dated 24.6.83 and letter No.507/PUB dated 12.3.84.
- 4.2 Item 21 (page 4) of minutes of the 13th MSG(EL) meeting held at Bhilai in ferbruary 1983 and circulated vide RDSO,s letter No. EL/2.1.8 Dt 19.4.83.
- **4.3** Electric loco shed/ Vijayawada/South central Railway,s Failure investigation in report No.5/1983.

5. Application

All electric locos where BBC time lag relays are used.

6. Agency for implementation

All electric loco sheds and POH shops.

7. Periodicity of implementation

During POH or whenever Jamming of the clock mechanism is observed.

8. <u>Distribution:</u>

As per mailing list.

(K. VISHWA KUMAR) for Director General (Elect).

DA: Mialing list