



भारतीय रेल (रेल मंत्रालय)
डीजल रेल इंजन कारखाना
वाराणसी-२२१००४, भारत
INDIAN RAILWAYS (MINISTRY OF RAILWAYS)
DIESEL LOCOMOTIVE WORKS
VARANASI-221004, INDIA



ISO
9001:2008
ISO
14001:2004
OHS
18001:2007



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DESIGN BULLETIN

1. Design bulletin no. DB/03/2014/03
2. Subject Modification in end terminal of Head Light resistor 3.75 Drg no.8429166 PI no.18300352 used in 4500 HP WDG4/WDP4B/WDP4D locomotives.
3. Background The HHP loco has two nos head light resistor 3.75 ohms 400W PI no.18300352. This resistor is fitted in ECC#1 and used in head light circuit to operate the head light lamp in dim condition.
4. Objective Used of Eye hole type terminals in head light end terminal in place of plug/fasten type end terminals.
5. Details of study/ Investigation Sr. DME/DSL/SVVR/KJM vide letter no. B/M/DSL/157/Resistor Headlight dt: 15.02.14 has reported plug in type end terminals for the wire connection is prone to get loosened due to vibration on run. This causes sparking in the resistor terminal resulting in burning of resistor terminal lugs and failure of head light. Shed has experienced few cases of such failures.
6. Corrective action To avoid such type failure Eye hole type terminal to be used in place of plug in type end terminals for the wire connection. This crimped terminal shoe will be provided with suitable bolt & nut that gives better grip and sparking can also be avoided.
8. Drg/Spec/Test plan/ QP modified DLW drawing no. 8429166 (PI no. 18300352) has been modified with Eye hole type terminals.
9. Implementation To be implemented with immediate effect in all HHP locomotives.
10. Circulation CMPE/All Rlys., CME/P, CQAM, DY.CME/Loco, Dy.CQAM, WM/LAS, WM/Test, SSE/TAS, SSE/LTS, SSE/EL/Insp., SSE/TAS/Progress, SSE/Planning, SSE/M&C, M/s EMD, M/s Siemens and M/s Medha.

PK/2
31/03/14
Dy.Chief Design Engineer/TC

O/C