

DESIGN BULLETIN

Design Bulletin No. – DB/02/2013/07

Subject - Removal of lugs from the bottom plates of HHP fuel tank assembly .

Background : Feedback from S.C. Railway
(Sr.DME/D/GY's L.No. G/D/M.103/HQ dated 01.11.2013)

Objective : To reduce chances of leakage / crack from the failure prone area in the vicinity of the resting pads


Procedure - Sr.DME(D)/GY has successfully implemented the modification. The process of modification followed by GY shed is explained as under:

- (i) Decant the fuel from the fuel tank
- (ii) Fill the tank with water
- (iii) Remove the pads from the bottom either by gouging using welding electrode or by using abrasive disc cutter (with portable grinding machine)
- (iv) The bottom plate surface be smoothed & cleaned-up by manual grinding
- (v) Cleaned surface to be tested for cracks/porosity by carrying out DPT
- (vi) In case cracks are detected, water to be decanted and tank to be repaired and finally retested using DPT
- (vii) Tank to be cleaned and fitted for re-use

It may be noted that DLW has already removed these pads from the drawing and the details of complete modification has been provided in the Design Bulletin No. **DB/02/2012/06 dated 23/07/2012** issued by DLW on the issue of fuel tank failures on HHP locomotives.

Implementation: Zonal Railways. The decision to undertake this modification or otherwise can be taken by Zonal Railways based on their experience

Circulation: All CMPE(D)s


29/11/13
(S.K.Singh)
Dy.CDE (Vehicle)

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