

New software patch for FLG, STB and HBB were received from CLW and following are the software issues resolved in the new software received from CLW which was tested in loco No. 30325 WAP-7

1. Item No. 13 of 36<sup>th</sup> MSG held at IREEN on 21<sup>st</sup> and 22<sup>nd</sup> was resolved. (In case of Error Calibration/Error plausibility from bogie-2, bogie gets isolated and after acknowledging when VCB is closed, VCB trips with message primary voltage out of limit from Bogie-2)
2. Whenever the input is missing while in braking, traction used to come. This was addressed. Now Angle transmitter fail message is coming and further traction is not coming while on braking mode.
3. If any one of the processor card (STB or HBB) becomes defective permanently, LP needs to change the CAB even in locos having cab redundancy. Now it was addressed.
  - a. When STB-1 is failed, loco is working normal but lamps during self test will not glow and MCE cannot be switched off.
  - b. When HBB-1 is failed, loco is working normal.
  - c. When STB-2 is failed, loco is working normal but lamps during self test will not glow and MCE cannot be switched off.
  - d. When HBB-2 is failed, VCD should be isolated and other functions are normal.
4. This software was provided in Loco No. 30325 WAP-7 on 03.09.17 and is working satisfactorily.
5. Further to this, it was also tried by isolating different processor as mentioned below

From Cab-1

Processor isolated	Isolation message	LSFI/BPFA working	Lamps during self test	570 node	MCE OFF	Remarks
FLG-1	√	√	√	√	√	Angle transmitter fail
STB-1	√	√	X	√	X	Node stuck at 612 during mce off.
HBB-1	√	√	√	√	√	
DDA1	X	√	√	√	√	
ZBV1	√	√	√	√	√	
FLG1+STB1	√	√	X	X	X	Node is fluctuating from 504 to 701 with message Angle transmitter failed. Loco is fail
FLG1+HBB1	√	√	√	√	√	
FLG1+STB1+DDA1	X	√	X	X	X	Loco is fail
FLG1+HBB1+DDA1	X	√	√	√	√	

F

From Cab-2

Processor isolated	Isolation message	LSFI/BPFA working	Lamps during self test	570 node	MCE OFF	Remarks
FLG-2	√	√	√	√	√	Angle transmitter fail
STB-2	√	√	X	√	X	Node stuck at 612 during mce off.
HBB-2	√	√	√	√	√	VCD is to be isolated
DDA-2	X	√	√	√	√	
FLG2+STB2	√	√	X	√	X	
FLG2+HBB2	√	√	√	√	√	
FLG2+STB2+DDA2	X	√	X	√	X	
FLG2+HBB2+DDA2	X	√	√	√	√	

In the event of FLG-1 and STB-1 fails together, loco is failed w.r.t cab redundancy feature. If it is addressed, software is full fledged w.r.t cab redundancy.

12/9/17  
 म.वि.इंजी/क.चल.स्यक  
 दि.ल.से/ला.सु  
 DEE/TRS/EIS/LGD