

Minutes of the Meeting held on 28.06.2017 at RDSO Lucknow

RDSO

1. O.P. Kesari, EDSE (Co-ord)
2. Suresh Kumar, DSE/TPL
3. M.N. Lodhi, SSE/TPL

CLW

Pankaj Kumar, AEE/D&D

ELS/TKD

Gaurav Srivastava, AEE

ELS/AQ

Adarsh Udapure, JE

ABB

1. Pradip Savaliya
2. Animesh Mathur

Meeting was convened to discuss reliability issues of M/s ABB make IGBT based converters in 3-phase electric locos. The progress of various decisions taken during the meeting and proposed action plan by firm to improve reliability of their equipments is as below:

1. Traction Converter

1.1 PEC Card

- M/S ABB shall optimize the booting time in PEC-2 controller in the 4 Locomotives (2 – ELS/TKD & 2 – ELS/AQ) by optimizing their software. Detail of software modification to be submitted. P.D.C. 10.07.2017
- M/S ABB shall replace the PEC-2 controller with PEC-3 controller in the 4 Locomotives (2 – ELS/TKD & 2 – ELS/AQ) to monitor the performance. The detail of wiring/mechanical changes/connector to be submitted. PDC 10.07.2017

1.2 Comat Relay modification

- M/S ABB shall initially implement the modified logic of relay operation for auxiliary switch of main contactor. The locomotive to be modified in clause 1.1 above shall have this modification also. Detail of modification to be submitted.
- PDC 10.07.2017

1.3 Door guide pin modification

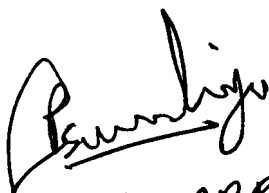
- M/S ABB has modified one of the locomotives in ELS/TATA, joint report along with detail of modification to be submitted to RDSO/CLW.

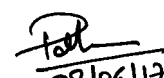
1.4 PEBB Failure


- ELS/TKD reported failure of IGBT module, when secondary winding of the transformer got earthed inside the transformer.
- M/s ABB shall look into the failure and submit the detailed investigation report along with necessary action plan to RDSO/CLW. PDC 05.07.2017


1.5 Software Upgradation

- Software version-38 shall be uploaded in all the locomotive in service by July-2017 by M/S ABB. This modification addresses the following issues


(M/S ABB)


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AEE/D&D/CLW


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GAURAV K. SRIVASTAVA
AEE/TRS/TKD


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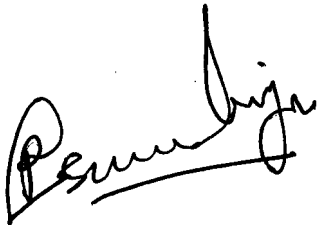
- Harmonic Filter over current
- Time out release shut down
- DC Link over voltage
- Earth fault
- Threshold not responding
- Loco creeping/skidding

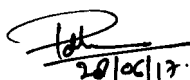
2. Auxiliary Converter


- The "Disturbance in Ventilation" problem remains unresolved in locomotive no. WAP-7: 30379 ELS RPM.
- It was intimated by the firm that this particular issue is only with this loco (30379). Therefore, they have suggested, firm representative shall remain in shed during this exercise to swap the GTO auxiliary converter with another ABB make IGBT auxiliary converter available in any other locomotive in the shed.

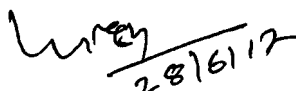
3. Others

- Any alteration in design/bill of material shall be put up to RDSO/CLW for prior approval.
- M/s ABB make SIV booting time is 50-55 second, hence M/s ABB should look into the possibility of reducing the booting time of SIV, similar to other makes of SIV.


Preetip Savalita
(m/s ABB)


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