

1 Introduction

This document summarizes purpose, new features of the Software Version: 41 for the Projects Bordline CC1500 AC 25kV M 2300 fitted with PEC2/PEC3 locomotives used in WAG9/WAP7/WAP5 type locomotives.

2 Release Notification

2.1 Major bug in former SW

- Problem of VCU Node not increasing above 594 when Traction Converter MCB 127.1 & 127.11 tripped after booting (FLG node-504).
Solution: Correction of State Machine bug.
- Problem of sometimes main power isolation when Traction Converter-1 MCB 127.1 & 127.11 tripped after booting (FLG node-504).
Solution: Correction of State Machine bug.

2.2 New features and extensions


- a) Implementation of CE Reset during operation as per RDSO Modification Sheet no RDSO/2018/EL/MS/0475
Solution: SLG1_103 /SLG2_203 XSpeed signal optimized after CE Reset to restore the driving direction FLG1-1035_0 47-BdriveDirec1 and 47-BdrivDirec2 from FLG.

3 Release Approval

All the modifications of the new SW release are verified by testing the new functionalities comprehensively on the real time setup.

4 Field Action

With the RTS test results, it is recommended to upload the software into Locomotive and test the application for improved converter reliability and to address the different issues reported by zonal railways.

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| Prepared | Sutanu Ganguly | 25.02.2021 | Project | CLW 3-Phase Locomotives | No of pages 1 | | |
| Reviewed | Ramu S | 25.02.2021 | Title | Change note for Software Ver-41 | | | |
| Approved | Ramu S | 25.02.2021 | Converter | Bordline® CC1500 AC 25kV M2300 004 B01 | | | |
| Department | MOTR | | | | | | |
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