

Certificate No. NESA-S058

Version No. 1.3

Approval date 24 May 2022

Approved by Acting GM Technical Standards

This certificate is issued to

Supplier Hitachi Rail Australia Pty Ltd
11 Viola Place, Eagle Farm
QLD, Australia, 4009
Tel: +61 7 3868 5421

In respect of

Manufacturer Hitachi Rail Australia Pty Ltd

Product description Phoenix Train Order System (PTOS)

Item identification Broadmeadow TOS Version 3_2_4

Application ARTC Network – New South Wales Network Rules

Relevant Standards ANSY 520 Phoenix Train Order System
ESD-08-01 Train Order Working
EN50128 Railway Applications – Communication, signalling and processing systems – Software for railway control and protection systems

Conditions of Approval

1. Only versions of Software for PTOS V 3_2_4 as listed in approved item list can be used in service. Any changes to software versions to be reviewed and approved prior to use.
2. All network infrastructures shall be designed and installed in accordance with ESD-08-01 Train Order Working.
3. Operation of the systems shall be in accordance with network rule ANSY 520.
4. That changes to the network geographic configuration be implemented in PTOS system data and tested and verified prior to its operational use at a specific location.
5. That the Manager Operations Services Hunter Valley will continue the establishment of a documented process for mentoring / training of new controllers in the operation of PTOS V 3_2_4.
6. That infrastructure maintenance staff are trained in ANSY 520 and competent before they undertake the movement of maintenance rail vehicles through a section of track under PTOS control. This only applies if the movement is as a train. Otherwise movements under a TOA do not require the PTOS qualification.
7. That only network maintenance staff who have completed training in PTOS system and have been assessed as competent, undertake maintenance tasks on the PTOS system.

8. That Train Operators complete training of all train drivers and associated staff in the operation of ANSY 520 before PTOS becomes operational for a specific section of the rail network.

All application design of the use of this system is undertaken in accordance with ARTC Standards and Procedures by competent persons.

ARTC reserves the right to conduct its own audit of the manufacture and supply of these components to AS 19011.

Any subsequent change to the system design, or changes to network rules affecting PTOS is not covered by this approval. The manufacturer should notify ARTC of any modification or changes in order to obtain a valid updated certificate.

Note/Comments NIL.

Issue date 24/05/2022

Expiry date Not applicable

Issued by

ARTC Manager Signalling Standards

Type Approval Status

Issue 1 – S01-1110-125 Ansaldo STS – Phoenix Train Order System – current for Junee, Victoria

Approved Item List

Phoenix Train Order System – Broadmeadow Software Configuration

No.	Name	Specification
1	System Release	NSW_SYS_TOS_3_2_4
2	TCS Subsystem Release	NSW_BIN_TCS_1_4_9
3	TOM Subsystem Release	NSW_BIN_TOM_1_4_6
4	FD Subsystem Release	NSW_BIN_FD_1_4_1
5	XSD	NSW_XSD_TOM_1_4_5
6	TOM Database Release	NSW_DB_TOM_1_4_6
7	TCS Application Data Broadmeadow Application Data	NSW_APP_BMD_0_2_2
8	FD Data Release	NSW_DAT_FD_1_4_0
9	MS.NET Framework	3.5
10	MS SQL Server	2005 SP2 64 bit standard
11	IIS	7.0
12	Borland Silk Central Test Manager	2008 Version 8.8
13	Borland StarTeam Client	2008 Version 10.0

This supersedes System Release NSW_SYS_TOS_3_2_3.