

Certificate No. NESA-S107

Version No. 1.3

Certificate type Full
Approval date 23/03/2026
Approved by Manager Engineering Services
ARTC Inventory Product No. 002005203

This certificate is issued to

Supplier Hitachi Rail STS Australia Pty Ltd
 11 Viola Place, Eagle Farm
 QLD 4009

In respect of

Manufacturer Hitachi Rail STS USA, Inc.

Product description MicroLok II ViPro CPU

Supplier product no.	Description	Part Number	Revision
	MicroLok II ViPro CPU	P20B.0100248	Hardware: 4.0 & 5.0
		P40N.0100373_02	Firmware: 3.1.1

Application ARTC Network

Relevant standards ESD-05-12 Microlok II Design
 SCP 23 Design of Microlok Interlockings
 SPS 02 Environmental Conditions
 SPS 05 Electrical & Electronic Components (Ratings & Construction Requirements)
 SCP 17 Computer-Based Interlocking Requirements
 SM.10256 MicroLok II - ViPro System Service Manual
 SM.10257 MicroLok II – ViPro Application Programming
 00000154.L00.EN – ViPro SRAC Register

Conditions of Approval

- ViPro shall be used and installed as per the manufacturer's requirements and guidelines.
- All the ViPro Safety Related Application Conditions (SRACs) specified by the manufacturer shall be observed and complied with by the Designers/Installers/Testers/Maintainers and all others responsible for the Specific Application (Project).
- Hitachi Rail will make Microlok ViPro CPU training courses available for designers, installers, testers and maintainers. Hitachi Rail will provide training to ARTC internal staff and, subject to Hitachi Rail's consent, to ARTC external contractors.
- Microlok ViPro has not been assessed in a hot standby configuration during the trial period. Hence, the use of the Microlok ViPro in a hot standby configuration shall be implemented by the responsible project in consultation with Hitachi Rail. Following a first successful implementation in a hot standby configuration, Microlok ViPro can be rolled out further on the ARTC network.

NEW EQUIPMENT AND SYSTEM APPROVAL CERTIFICATE

5. The original MicroLok II Vital (Master/Slave) protocol is not supported by ViPro.
6. Maintenance shall be performed based on the manufacturer's manuals and ARTC's Technical Maintenance Plan.
7. The ARTC maintenance team shall complete the maintenance training with Hitachi Rail and retain evidence of training.
8. All personnel who are involved in the design development, checking or independent validation/testing of MicroLok ViPro CPU shall have undergone the training from Hitachi Rail and retain evidence of training.
9. Only components listed shall be utilised.

Issue date 23/03/2026

Expiry date N/A

Issued by

ARTC Manager Engineering Services