

**Certificate No.**      **NESA-S107**      **Version No. 1.0**

**Approval date**      6 March 2024

**Approved by**      Head of Engineering Standards

*This certificate is issued to*

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

*In respect of*

**Manufacturer**      Hitachi Rail Australia Pty Ltd

**Product description**      'Hitachi Rail Australia Pty Ltd' Microlok Vipro CPU

**Item identification**

Description	Part Number	Revision
MicroLok II ViPro CPU	P20B.0100248	Hardware: 4.0 Firmware: 2.1.0

**Application**      Between Joppa Junction and Yass Junction

**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

**Conditions of Approval**

- To be used and installed as per the manufacturer's requirements and guidelines.
- All the Safety Related Application Conditions (SRAC) and Application conditions for the trial from the Type Approval Evaluation Report from RGB Assurance (Vipro-0001-RPT) shall be observed and complied with by the project/designer/users of the system.
- This is a trial type approval for the trial between Joppa Junction and Yass Junction during the possession. Interstate business unit signal representative and principles tester to provide feedback after successful testing and commissioning at the trial sites.
- The supplier will make training courses available for Microlok Vipro CPU for the designers, maintainers and testers.

## NEW EQUIPMENT AND SYSTEM APPROVAL CERTIFICATE

- Maintenance is to be performed based on the manufacturer's manuals and ARTC Technical Maintenance Plan.
- The maintenance team looking after the trial installation shall have undergone the maintenance familiarisation training from Hitachi and retain evidence of training.
- All personnel who are involved in the design development, checking or independent validation of Microlok Vipro CPU shall have undergone the training from Hitachi and retain evidence of training.
- Only components listed shall be utilised.

A general condition of approval is that the supplier remains accredited to ISO 9001 specifically for these products and ARTC is advised on a 12 monthly basis that accreditation is current. 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 design, materials or manufacturing process is not covered by this approval. The manufacturer should notify ARTC of any modification or changes in order to obtain a valid certificate.

### Note/Comments

**Issue date** 6/03/2024

**Expiry date** N/A

**Issued by**

**Manager Signalling Standards ARTC**