

NEW EQUIPMENT AND SYSTEM APPROVAL CERTIFICATE

Certificate No. NESA S052

Version No. 1.0

Approval date 04/02/2020
Approved by General Manager Technical Standards
Report no. NESA S052
Report date 25/01/2020

This certificate is issued to

Supplier Siemens

In respect of

Manufacturer Siemens
Product description Siemens Switchguard Surelock Point Machine and Linear Backdrive
Item identification Refer to Approved Item List
Application ARTC Hunter Valley (Sandgate Point machine 181B trial)
Relevant Standards
 SPS 02 Environmental Conditions
 EN 50121 Part 4 EMC - Emissions & Immunity Signalling and Telecommunications
 EN 50125 Part 3 Environmental Conditions for Signalling and Telecommunications
 EN50126 Railway Applications – The Specification and Demonstration of Reliability, Availability, Maintainability and Safety (RAMS)
 EN 50129 Railway Applications - Communication, signalling and processing systems – Safety related electronic systems for signalling
 SPS 02 Environmental Conditions

Conditions of Approval

1. Only permitted for installation at Sandgate (181B point) for a period of 6 months commencing commissioning into service.
2. Trial report to be generated prior to the 6-month trial completion by ARTC maintenance staff to support the full type approval.
3. Equipment listed in Approved item list for Type Approval shall be installed for trial.
4. Approved signalling circuit design shall be provided to ARTC for acceptance prior to the trial installation.
5. Maintainers shall be trained in installation and maintenance of the Surelock points machine prior to commissioning.
6. Only trained personnel are permitted to maintain and operate the points machine during the trial.
7. Maintainers shall inspect the machines at least once a month, any repairs shall be recorded and communicated to the Hunter Valley Senior Signal and Systems Engineer.
8. To be maintained in accordance with manufacturer recommendations.
9. New ARTC service schedules shall require development.

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10. ARTC competency documentation shall require update to reflect new equipment type.
11. Procurement to ensure product and spare part serial numbers are current and listed
12. Stores holdings to be maintained and stocked with spare components

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

6/2/2020

Expiry date

6 months from date of installation

Issued by

Mk Jain

Mayank Jain

ARTC Manager Standards

Approved Item List:

| Part Number | Item Description |
|-------------|--|
| E25624/12 | Surelock Point Machine 4Ft Mount Double Cut Wiring |
| E26488/2 | Linear Backdrive Heel Style |
| PL300134/1A | 8 WAY SKT COUPLER KIT |
| PL300134/2B | 14 WAY SKT COUPLER KIT |
| C51335/5 | 5CCABLE(5M)8W PLUG/PLUG |
| C51679/5 | 10CCABLE (5M)14W PLG/PLG |
| C50478/30 | 4C CABLE (30M)8W PLUG |
| C50490/2 | Motor Module - 110 V DC AC Immune Motor |
| C50492/1 | Drive Module |
| C50536/1 | Control Module |
| E25586/2 | Escapement Module |
| B52678/1 | Drive Rod (RHSD) |
| B52678/2 | Drive Rod (LHSD) |
| J26357/1 | Detector Rod |
| B52426/1 | Lock Rod |
| 616930401 | Bearing Cartridge (Drive and Lock Rods) |
| 616930402 | Bearing Cartridge (Detection Rods) |
| 616190202 | Blanking Plugs 22 mm diameter |
| 616190203 | Blanking Plug 32 mm diameter |