



AUSTRALIAN RAIL TRACK CORPORATION

STANDARDS and SYSTEMS

Engineering Standards and Documents

The following recommendation, together with attached supporting documentation, has been considered by ARTC Manager Standards on 11th April 2008.

Documents:

Ref No:	08-08-10-087 - Systems & Equipment Approval
Subject:	'Siemens' Point Blades Detector (ELP-319)
Dated:	7 th March 2008.

Prepared By: Arthur Haberlin, Signal Engineer - Equipment

Endorsed by: Trevor Moore, Signal Standards Engineer

Items Considered for Approval:

Manufacturer:	Siemens AG Transportation Systems
Product:	Point Machine (S700K)
Item Identification:	End position Detector, 4 switches Part number C25106-A202-A100

The items in the form they were presented at the review date were approved for System & Equipment Approval to be used on all ARTC jurisdictions in accordance with the manufacturers published performance criteria and subject to the following.

Relevant ARTC Specifications:

Ref. No.	Title	Status	Date
SPS 02	Environmental Conditions	Issue1 Revision 2	May '05
SPS 16	Point Mechanisms	Issue 1 Revision 3	May '05
SMP 28	Points Detection Tests: Separate Electrical	Issue 1 Revision 2	March '05

Specific Conditions of Approval:

- i. For use in accordance with ARTC specification SDS 25 – ‘Circuit Design Standards’ and standard typical circuits which shall be developed and approved specifically for the ELP-319 points blades detector.
- ii. Maintenance procedures for turnouts fitted with this detector shall either;
 - include a biennial visual inspection of the switch toggles to confirm that no deformation or cracking of the operating mechanism has occurred or;
 - utilise a detection circuit which will indicate a failure of any individual switch.
- iii. Only one version of the ELP-319 End Position Detector may be utilised having SIEMENS part number C25106-A202-A100 having four (4) switch contact sets and an aperture for a padlock to secure the lid tension screw.

Certificate Issued to:

Siemens Ltd.
Transportation Systems
855 Mountain Highway
Bayswater Vic. 3153

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 19011:2003.

Any subsequent change to the design, materials or manufacturing process is not covered by this approval.

Approved for use in the ARTC.



John Furness

APPROVAL No: 08-08-10-087

Manager Standards

Approval Date: **11th April 2008**