



Commentary for Standard:

ESM-06-01 Facing Point Lock and Detection

Version: 1.3

1 Acknowledgement

ARTC Maintenance & Construction Staff and Construction Contractor employees (or Design Consultancies) are required to sign a briefing form to acknowledge they have read this commentary and received a briefing from their Team Leader / Signals Work Group Leaders and they understand the implications the standard has on their duties.

2 Operable Dates

2.1 Maintenance

The Maintenance Operable Date is 1 September 2010. This is the date for application of the standard. Use of the superseded standards should cease on 1 October 2010. Where time is required to achieve compliance in all maintenance activities and performance levels to the new standards and revised standards, Corridor Management is responsible for producing and managing an Implementation Plan.

2.2 Design Retrospective Requirements

N/A

2.3 Construction Retrospective Requirements

N/A

3 Training Process

3.1 Maintenance

All ARTC Maintenance Staff are to be briefed by their Team Leaders/ Signals Work Group Leader / Signal Manager about ESM-06-01. The briefing is to be carried out via a tool box meeting or team briefing. This commentary shall be printed and distributed to all staff attending the briefing. Staff must sign to acknowledge that they have read this commentary, received a briefing and that they understand the implications the standard has on their duties. The Team Leaders shall provide feedback to the Managers demonstrating the completion and implementation of the briefing. Team Leaders shall keep the records of all staff signing acknowledgement of the commentary and briefing. This information shall be available for quality auditing.

3.2 Construction

All ARTC construction staff and external Contractors must ensure that all staff who may work on points equipment on ARTC projects are briefed about ESM-06-01. The briefing is to be carried out via a tool box meeting or team briefing. This commentary shall be printed and distributed to all staff attending the briefing. Staff must sign to acknowledge that they have read this commentary, received a briefing and that they understand the implications the standard has on their duties. Construction Contractors shall keep the records of all staff signing acknowledgement of the commentary and briefing. This information shall be available for quality auditing.

3.3 Design

There are no specific training requirements for Design staff. Design staff involved in commissioning points would be briefed as per Construction staff.

4 Outline of Standard

ESM-06-01 is a new common maintenance standard that will be introduced across all ARTC jurisdictions. The standard outlines the process involved in testing and adjusting the facing point locks for mechanical and electrical point machines and specifies the Lock Enter, Lock Not Enter, Detection and Detection Lost values. Previously these values had varied between the different ARTC jurisdictions.

5 Key Changes or Updates in the Standard

5.1 New to NSW Jurisdiction

Measurement:	New STD.	NSW	VIC	SA
Lock Enter	2.0 mm	1.6 mm	2.0 mm	2.0 mm
Lock Not Enter	3.2 mm	3.2 mm	-	-
Detection Made	4.0 mm	3.2 mm	4.0 mm	4.0 mm
Detection Lost	6.0 mm	4.8 mm	6.0 mm	6.0 mm

Table 1 - Facing point lock and detection values

Referring to table 1, the new facing point lock gauge and detection values specified in the ESM-06-01 are currently used on the South Australian and Victorian network. In New South Wales however, the values specified in ESM-06-01 are less restrictive than those currently used on the NSW network.

Section 4 - Gauge for Facing Point Lock and Detection Testing is currently not documented within specifications or standards on the NSW network.

5.2 New to VIC Jurisdiction

The following sections from ESM-06-01 are currently not documented within specifications or standards on the Victorian network, they are however, covered by existing practices:

- 1 - Points Detection Test: Separate Electrical
- 2 - Facing Point Lock Testing – Mechanical
- 3 - Facing Point Lock and Detection Testing – Combined Point Machine
- 4 - Gauge for Facing Point Lock and Detection Testing

5.3 Deleted Sections

N/A

6 Special Tool Requirements

6.1 Hardware

V Samson will be responsible for arranging the initial manufacturing and distribution of the new FPL gauges. The gauges will be issued with a unique serial number and shall be calibration tested every two years.

All ARTC Maintenance staff will be issued with new gauges by their Team Leaders/ Line Manger in exchange for their existing gauges. Staff will be required to sign and acknowledge receipt of the new gauges.

All construction contractors will need to order the new FPL gauges through V Samson. Only gauges issued by ARTC shall be used on the ARTC infrastructure.

The gauges will subsequently be available through ARTC Procurement.

6.2 Software

N/A

7 Changed Management Systems

7.1 Ellipse

The Ellipse system in NSW will be updated to incorporate the new facing point lock gauge and detection values. The corresponding Service Schedules are to be updated.

7.2 Reports

N/A

8 Exemptions and Exclusions

The standard does not apply to Vossloh Cogifer points or to points with Spherolocks.