AUSTRALIAN RAIL TRACK CORPORATION LTD

Discipline: Engineering (Signalling) **Category: Policy**

Track Circuits

ESM-07-01

Applicability

ARTC Network Wide	✓	**CRIA (NSW CRN)**	✓

Primary Source

SMP 25

Document Status

Version	Date Reviewed	Prepared by	Reviewed by	Endorsed	Approved
1.2	13 August 2010	Standards	Stakeholders	Chief Operating Officer	Risk & Safety Committee 16/02/2009

Amendment Record

Version	Date Reviewed	Clause	Description of Amendment
1.0	12 Oct 08		First issue. Supersedes NSW Standard SMP 25 v1.2 in part
1.1	07 Oct 09		Disclaimer updated as per Risk & Safety Committee 14/09/2009
1.2	13 August 2010	All	Issued as final.

Contents

1 General

Signalling maintainers are responsible for maintaining track circuits for safe and reliable operation. They are to work in accordance with maintenance requirements and schedules. As with other vital signalling equipment, signalling maintainers should be on the lookout and check for potential track circuit problems whenever the opportunity permits, as when visiting sites or walking through the section.

Maintenance requirements include tasks such as but not limited to:

- Track circuit examination
- Recording of track circuit voltages etc. and settings
- Shunt test
- Polarity test

Signalling maintainers shall make themselves aware of the equipment manuals and specifications and maintenance procedures for each type of track circuit which they will be required to maintain.

1.1 Track Circuit Examination

The objective of examining track circuits is to find and remove any potential failure conditions and ensure that as far as possible the track circuit will function reliably as per design.

Any conditions likely to cause a reduction in the reliability of the track circuit shall be attended to immediately.

1.2 Recording Track Circuit Parameters

Track Circuit values and settings are recorded and monitored over time. This assists in assessing the performance outside the specified values which may lead to failure.

1.3 Testing Track Circuits

Tests shall be performed to confirm safe and reliable operation. This includes shunt tests and polarity tests.