



AUSTRALIAN RAIL TRACK CORPORATION LTD

Discipline: Engineering

Category:

Process  
Procedure

# Signal Faults Management

## PP-148

### Applicability

ARTC Network Wide	✓	Western Jurisdiction	
New South Wales		Victoria	

### Document Status

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### Amendment Record

Version	Date Reviewed	Clause	Description of Amendment
1.2	12 Jan 04		Updated to new ARTC format
1.3	2 Nov 06	6	Removed reference to PP-194 as procedure does not exist

### Document Distribution List

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## 1 Purpose

The purpose of this procedure is to ensure safety critical and other significant faults in the ARTC signalling systems are adequately managed and resolved.

## 2 Scope

The scope of this procedure is limited to a general description of the Signal Faults Reduction Strategy implemented at ARTC.

## 3 Reference Documents

PP-141 Alliance Management Team Operations

PP-151 Annual Work Program

PP-152 Train Control Report – Close Out

## 4 Responsibility

Asset Managers are responsible for the management of Signals faults.

## 5 Signals Faults Management Committee

The Signal Faults Management Committee (SFMC) is a sub-group of the Alliance Management Team (AMT), reporting to the AMT.

The SFMC ensures that ARTC:

- is able to demonstrate progress towards achieving the service reliability goals for the signalling systems (a reduction in the total train delay minutes attributable to signalling systems);
- adopts a proactive approach to reducing safety risks to levels considered As Low As Reasonably Practicable; and
- is provided with a sound basis for prioritising expenditure on infrastructure upgrades and enhancements (sustaining the infrastructure).

The SFMC is convened in South Australia and Victoria, each meeting occurring monthly. Membership of the SFMC is limited to the Signals Engineers from ARTC, alliance partners and other contractors directly involved in the rectification of faults in the ARTC signalling systems.

### 5.1 Fault Statistics

Alliance partners provide fault statistics in the Monthly Reports. The fault statistics are usually derived from reports of failures that caused train delays (Train Control Reports), and faults detected in the field during routine and corrective maintenance.

In most instances, the details provided by alliance partners in the fault reports adequately describe the rectification action taken for isolated faults.

### 5.2 SFMC Scope of Operation

Where ARTC requires more detailed analysis of the cause of a fault, the fault will be reviewed by the SFMC.

The SFMC will pay particular attention to those faults that are safety critical in nature.

The SFMC will review reported faults, based on the advice of alliance partners and contractors.

### 5.3 SFMC Responsibilities

The SFMC will:

- Monitor faults and report monthly to the AMT;
- Assess the risks attributable to serious faults in a committee (risk management workshop) style approach;
- Assign resources for the investigation of serious faults (Technical Investigations);
- prioritise the investigations;
- recommend actions to the AMT;
- monitor the progress and outcomes of investigations;
- conduct reviews of maintenance schedules, maintenance plans, tasks and resource requirements; and
- oversee the implementation of preventative actions.

## 6 Procedure

- The Asset Manager will routinely monitor TCR data to identify adverse trends in signal system fault statistics.
- The Asset Manager will prepare and distribute an agenda for the next SFMC meeting.
- The SFMC will identify priority signals system faults and determine the appropriate actions for resolution of these faults.
- The Asset Manager reports the outcomes of SFMC meetings to the AMT (PP-141).
- The Asset Manager incorporates the decisions taken to rectify signal faults into the Annual Work Program (PP-151) and other relevant Maintenance Plans (PP-150).

### 6.1 Outputs

The SFMC will produce the following outputs:

- MPM projects to address major faults (this may include the re-allocation of priorities for MPM projects in a financial year);
- Changes to procedures and work practices, including but not limited to:
- Amendments to contract Statements of Work;
- Revised or new specifications;
- Amendments to the National Code of Practice; and
- Amendments to maintenance procedures.

## 7 Flow Chart

Refer to the attached flow chart.

