



AUSTRALIAN RAIL TRACK CORPORATION LTD

# **Collection of Signalling System Condition Data**

**Issue 1  
Revision 3**

**Engineering Process Procedure  
(PP-144)**

## DOCUMENT CONTROL

### 1 Document Status Record

Status	Date	Prepared	Reviewed	Endorsed	Approved
Issue1 Revision3	09 Aug 04	Standards and Systems	Section Managers	GM ISP	Safety Committee

## PROCESS PROCEDURE PP-144

# COLLECTION OF SIGNALLING SYSTEM CONDITION DATA

### 1. Purpose

The purpose of this procedure is to ensure that ARTC has access to data describing the physical integrity of the signalling system assets.

### 2. Scope

The scope of this procedure is limited to a description of the collection of signalling system condition data only.

### 3. Reference Documents

Contract A3 – Signals & Communications, 5 May 1999  
ARTC Engineering Standards

### 4. Responsibility

The Performance Manager is responsible for the collection of the Signalling System Condition Data.

### 5. Condition Assessment System

Signalling Maintainers monitor the condition of signalling system assets condition data

All signalling equipment in the Defined Interstate Network (DIN) is given a condition rating based on the observed physical condition when compared with a baseline condition description and photographs.

A Weighting Factor is applied to equipment within Asset Sub-Type categories to score the condition from 1 (poor) to 100 (good). The Weighting Factor is based on the functional (as designed) performance and safety criticality of the Asset Sub-Type.

The final weighted score of physical condition is used to predict the probable remaining service life of the asset.

## 6. Procedure

The process for collection and analysis of signalling system condition data is illustrated in the attached flow chart. The key steps in the process are:

1. Asset maintainers conduct infrastructure maintenance, audit and survey activities in accordance with a defined contract scope.
2. Asset Maintainers record equipment condition.
3. Asset Maintainers prepare and submit asset condition reports.
4. Asset Maintainers input the weighted condition score and a description of physical condition.
5. The Performance Manager receives and registers the asset condition reports and data deliverables.
6. The Performance Manager reviews the asset condition reports and records, paying particular attention to adverse trends and exceptional observations.
7. The Management Teams interpret and discuss the asset condition reports
8. The Management Teams identify corrective actions and allocates resources as necessary.
9. Corridor/Asset Managers and Delivery Managers review and validate the asset condition records.
10. The Performance Manager uses the asset condition data to develop the Asset Condition Report and related documents.

## 7. Flow Chart

Refer overleaf.

