



AUSTRALIAN RAIL TRACK CORPORATION LTD

Discipline: Engineering

Category: Procedure

# Track Maintenance Vehicle Registration and Operation

## PP-124.1

### Applicability

ARTC Network Wide		Western Jurisdiction	
New South Wales	✓	Victoria	

### Document Status

Version	Date Reviewed	Prepared by	Reviewed by	Endorsed	Approved
1.0	18 Jul 07	Engineering Performance	Asset Management and Operations	General Manager Infrastructure & Asset Mgt	Safety Committee 13/08/2007 & 08/10/2007

### Amendment Record

Version	Date Reviewed	Clause	Description of Amendment
1.0	18 Jul 07		First issue – including addition of Implementation Toolkit (background and flowcharts) as Appendix 1

### Document Distribution List

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# 1 Introduction

## 1.1 Purpose

The purpose of this procedure is to establish a formal process for vehicle owner/operators to register and warrant track maintenance vehicles to operate on the ARTC Network.

## 1.2 Scope

This procedure applies to new or substantially modified track maintenance vehicles in specified categories intended for operation on the ARTC Network.

## 1.3 Procedure owner

The Executive Manager Standards & Systems is the Procedure Owner and is the initial point of contact for all queries relating to this procedure.

## 1.4 Responsibilities

Delivery and Project Managers are responsible for ensuring the requirements of this procedure are communicated to vehicle owner/operators as part of contracts.

The Network Standards Manager is responsible for maintaining track maintenance vehicles registration records.

Network Control Officers are responsible for managing work on track authorities within the limits of ARTC Network Rules and Procedures and track maintenance vehicle categories.

Vehicle owner/operators are responsible for assessing track maintenance vehicles for compatibility to the ARTC Network.

## 1.5 Reference documents

The following documents support this procedure:

- ANWT 316 Track Vehicles
- WOS 01 – ARTC Minimum Operating Standards for Rolling stock
- PP124.1F-01 Track Maintenance Vehicle Registration and Warranty Form

## 1.6 Definitions

The following terms and acronyms are used within this document:

Term or acronym	Description
Classified heavy weight rail bound vehicles	Vehicles certified to operate under the control of signals.
Heavy weight rail bound vehicles	Vehicles not certified for operation under the control of signals.
Heavy weight road/rail vehicles	Vehicles able to be removed from the track at some locations and weighing 5 tonnes or more.
Light weight road/rail vehicles	Vehicles able to be removed from the track at most locations and weighing less than 5 tonnes.
Quadracycles and trikes	Small self propelled vehicles for conveying personnel, tools or equipment along the track either engine or manually powered able to be lifted from the track.
TOC Manual	ARTC Train Operating Conditions Manual
Trolleys and trailers	Small non-powered vehicles used for conveying tools and equipment and easily removed from the track.
Worksite only vehicles	Vehicles and equipment limited for use only within a protected worksite and not for travel of transfer on track.

## 2 Registration and Warranty

### 2.1 Introduction

ARTC maintains a listing of track maintenance vehicles registered for operation on the ARTC Network.

### 2.2 TOC Manual listed vehicles

All track maintenance vehicles listed in the TOC Manual Section 11, Track maintenance Vehicle Data and in Section 10, Locomotive and Rolling stock Data as at the commencement of this procedure do not require additional registration under this process.

### 2.3 New or substantially modified vehicles

Vehicle owner/operators intending to operate new or substantially modified track maintenance vehicles on the ARTC Network must formally register each vehicle with ARTC.

For registration to occur, the vehicle owner/operator shall warrant vehicles for compliance to relevant standards, and shall provide evidence of compliance in the form of an engineering compliance certificate.

### 2.4 Vehicles requiring registration

Categories of vehicles requiring registration are as follows;

- light weight road/rail vehicles,
- heavy weight road/rail vehicles,
- heavy weight rail bound vehicles, and
- classified heavy weight rail bound vehicles.

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*Note: Classified heavy weight rail bound vehicles are considered to be locomotives or rolling stock or the purpose of registration*

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### 2.5 Vehicles not requiring registration

Categories of vehicles not requiring registration are as follows;

- worksite only vehicles, and
- trolleys and trailers.

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*Note: Quadricycles and trikes are prohibited from operation on the ARTC Network*

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### 2.6 Registration and Warranty Requirements

Track maintenance vehicle registration data and warranty requirements include the following;

- A declaration signed by the owner/operator warranting the vehicle to be operational and maintained to the relevant standards.
- Category and description,
- Identification number,
- Maximum speed of operation,
- Operational dimensions, and
- Loaded mass.

## 3 Procedures

### 3.1 Registration and Warranty Notification

The vehicle owner/operator assures vehicle compliance to standards, and obtains an engineering compliance certificate.

The vehicle owner/operator completes *PP124.1F-01 Track Maintenance Vehicle Registration and Warranty Notification Form*.

The completed form and certificate are submitted to the ARTC Network Standards Manager.

The notification is processed for listing within ARTC.

### 3.2 ARTC Network Control

ARTC Network Controllers shall;

- apply the track vehicle category description to safeworking requirements,
- apply vehicle speed capability for rail traffic planning and pathing, and
- block work classified heavy weight rail bound vehicles when operating on infrequently use lines, loops and refuges.

### 3.3 Track Maintenance Vehicle Operation

Track maintenance vehicle operation shall be in compliance to *ANWT316 Track Vehicles* and operate on track in all conditions on the network as follows;

- hazard light fitted, unobstructed and switched on for all-round visibility,
- head and tail lights fitted and switched on,
- audible warning devices fitted and whistle signals used for safety at and within worksites,
- with the maximum allowable vehicle operating speed permanently displayed in the vehicle for operator compliance; otherwise operate at a maximum speed of 15km/h for vehicles up to 5 tonnes and 30km/h for vehicles 5 tonnes and over, and
- comply with any other speed restrictions related to the nature and characteristics of the vehicle as determined by the constructor, maintainer or vehicle manufacturer.

## 4 Track Maintenance Vehicle Registration and Warranty Form – example only

Engineering Procedure -Form  
Track Maintenance Vehicle Registration and Warranty Form



Form number: PP124.1F-01

### TRACK MAINTENANCE VEHICLE REGISTRATION AND WARRANTY FORM

#### Owner / Operator Declaration

I warrant that the track maintenance vehicle in this application is maintained to a sufficient standard of safety and to a satisfactory level of operational efficiency, but in any case to standards at least as high as those standards set out in all relevant standards as amended or superseded from time to time including without limitation:

1. NSW Std - WOS 01 – ARTC Minimum Operating Standards for Rolling stock; and
2. in the event of the Draft Code of Practice for the Defined Interstate Network being endorsed for national implementation on the Network, then such Code of Practice once it is so endorsed, whichever standard is highest.
3. The ARTC Route Access Standard.

<b>Details</b>	
Name:	Title:
Organisation:	
Postal Address:	
Contact Telephone:	Mobile: Facsimile:
Email Address:	
Signature: _____	Date: / /

<b>Track Maintenance Vehicle Details</b>			
1. Identification No(s):			
2. Category/Description:			
3. Maximum Speed of Operation:			
4. Maximum Dimensions:	Height:	Width:	Length:
5. Loaded Mass:			
6. Engineering Compliance Certificate attached	<input type="checkbox"/>		

<b>Send to:</b> Australian Rail Track Corporation Network Standards Manager PO Box 10343 Gouger Street, Adelaide SA 5000 Fax No: 08 8217 4119 Enquiries: 08 8217 4318	<b>Receipt to Organisation</b> Notification processed: Date: / / Recorded by ARTC: Date: / /
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## 5 Appendix 1 – Implementation Toolkit

### 5.1 Background

ARTC plans to replace the TOC Manual with a Route Access Standard (RAS). The RAS will not contain any TMV information or data as in the TOC Manual's Sections 9 and 11. There will be no requirement for a Waivers system under the RAS. TMV Owners and Operators shall register and warrant new and substantially modified TMVs to ARTC. The warranty shall be based on Owners and Operators sign-off for compliance to the current Technical Standards. ARTC shall maintain TMV details in the RAMS data base for internal use by ARTC.

ARTC has prepared a *Track Maintenance Vehicle and Operation Procedure* which describes the new procedure for TMVs. This new procedure will be implemented in the ARTC New South Wales rail network in the first instance. ARTC network wide implementation will follow in due course.

To assist the implementation of the Track Maintenance Registration and Operation procedure a series of simple flow charts have been prepared to answer the following questions

- 1) TMV Registration and Requirements
  - Do TMVs listed in the TOC Manual require registration again?
  - How are TMVs which are certified to reliably operate track circuits to be handled?
  - What types of TMVs must be registered?
  - Are there any types of TMVs that do not need to be registered?
  - Where will registration data be stored?
  - How will the information be used?
- 2) TMV Registration Process
  - Have the standards applicable to TMVs changed?
  - Who is responsible for certifying compliance to standards?
  - What evidence is needed to show compliance?
  - How is compliance notified to ARTC?
- 3) TMV Operation
  - How must the TMV be operated in the Network?
  - What happens to the TMV operational requirements previously detailed in the TOC Manual?
  - Do ARTC Network Rules and Procedures continue to apply?
  - Does ARTC Network Control have access to TMV listings?
  - How does ARTC Network Control use the TMV Data?

## 5.2 Flowcharts





