Engineering Standard

Type Approval for Railway Products

AM4-DOC-000466

Document Control

Document Status

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0	Initial Issue	October 2015	Kuldeep Zala	Keith Charlton	Phil Agnew

NOTE:

This standard supersedes *PTS-AR-10-EG-PRC-00203000 Procedure for obtaining type approval for safety critical rail assets - Revision 0 April 2011*

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1. Introduction

Obtaining type approval is the process of certifying that a product proposed for use on the Adelaide Metropolitan Passenger Rail Network (AMPRN) meets its critical requirements for safe operations and maintenance. Type approval is specific to:

- The product type; and
- The environment in which it is intended to be installed.

Formal type approval is a prerequisite for Department of Planning, Transport and Infrastructure (DPTI) acceptance and use for rail related products.

There is no requirement to obtain type approval for facilities, construction activities, structures or "once off" designs. These are subject to other DPTI approval processes.

2. Purpose

The purpose of this document is to specify the type approval process adopted by DPTI for the introduction of novel or modified safety critical rail products into the AMPRN.

3. Scope

This standard is applicable to all novel or modified safety critical rail products introduced into the AMPRN.

4. Related Document

DOCUMENT NAME	DOCUMENT NUMBER
Type Approval Certificate Template	KNet # 7676417
Type Approval Checklist Template	KNet # 9544768

5. References

- *AS 7702:2014 Rail Equipment Type Approval*

6. Acronyms

ACRONYM	FULL NAME
AMPRN	Adelaide Metropolitan Passenger Rail Network
DPTI	Department of Planning, Transport and Infrastructure
ITR	Independent Technical Reviewer

7. Definitions

TERM	DEFINITION
Functional Group Manager	Person responsible for the management of a DPTI Functional Group.
Novel Product	A product that has not previously been used by DPTI. For the avoidance of doubt, such novel products may have been utilised by another Accredited Railway Organisation.
Functional Group	DPTI Safety and Service Groups responsible for the design, construction, maintenance, modification, or removal, of AMPRN assets. The groups are: Track & Civil, Rolling Stock, Rail Maintenance, Signals & Communications, Electrical Engineering, Tram Maintenance and Capital Works.
Type Approval	Approval of a specific item of railway equipment for a defined application.

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8. Roles and Responsibilities

8.1. Manager, Rail Engineering and Rollingstock

The Manager, Rail Engineering and Rollingstock is responsible for ensuring that the type approval process is followed by all Functional Groups for the introduction of novel or modified safety critical rail products into the AMPRN.

8.2. Functional Group Manager

The Functional Group Manager manages the type approval process, including:

- Receiving type approval requests;
- Nominating a Type Approval Manager to manage the type approval process.
- Nominating an Independent Technical Reviewer (ITR) for the type approval product evaluation in accordance with *AS 7702:2014 Rail Equipment Type Approvals*;
- Assessing the suitability of an ITR to undertake the type approval review role;
- Ensuring evaluations and field trials are conducted as required;
- Approving and issuing type approval certificates; and
- Withdrawing type approvals.

8.3. Type Approval Manager

Type Approval Manager is responsible for:

- Supporting the Functional Group Manager by preparing and overseeing the type approval process;
- Ensuring that the type approval process detailed in AS 7702 is followed;
- Obtaining a type approval certificate number from the Rail Document Management Group;
- Reviewing evaluations, field trials, preparing reports and completing the type approval checklist (Knet # 9544768);
- Ensuring all stakeholders are identified and consulted;
- Making recommendations to the Functional Group Manager for approving the type approval certificate (Knet # 7676417) ;
- Following approval, ensuring that all type approval documentation is submitted to the Rail Document Management Group for record keeping.

The Functional Group Manager may be the Type Approval Manager.

8.4. Independent Technical Reviewer

Independent Technical Reviewer is responsible for:

- Evaluating the type approval application using documentation and supporting data in accordance with this document
- Independently reviewing the type approval applications

The Independent technical reviewer may be a suitably qualified DPTI Employee.

8.5. Rail Document Management Group

The Rail Document Management Group is responsible for:

- Issuing a unique type approval certificate number, on request, for each type approval submission;
- The record management of type approval submissions;
- Maintaining a register of all type approval submissions;
- Ensuring the type approval standard and forms are available via the intranet.

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9. **Australian Standard for Type Approval**

DPTI adopts all of the requirements specified in *AS 7702:2014 Rail Equipment Type Approval* unless modified as shown below:

- If a clause in AS 7702 refers to RTO, it is to be read as DPTI.
- If a clause in AS 7702 refers to Evaluating RTO, it is to be read as the DPTI Functional Group Manager.

10. **Type Approval Checklist**

The type approval checklist (KNet # 9544768) has been developed in accordance with *AS 7702:2014 Rail Equipment Type Approvals.* This type approval checklist shall be used when evaluating a type approval application.

11. **Documentation**

It is a mandatory requirement that all documentation related to the type approval evaluation is loaded into KNet and the KNet numbers referenced in the Type Approval Checklist. This shall include all supplier evidence, drawings and documentation. These KNet documents are to be 'related' to the Type Approval Checklist to ensure that all information is consolidated in one place for future reference.

The Rail Document Management Group will assist with documentation arrangements on request.

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