



Type Approval for Railway Products Standard

Asset Management

AM4-DOC-000466

DOCUMENT AMENDMENT RECORD

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1. Introduction

The Department for Infrastructure and Transport (The Department) manages and operates the Adelaide Metropolitan Passenger Railway Network (AMPRN) under the Rail Accreditation assigned to The Rail Commissioner (RCom).

Rail Safety National Law (RSNL) (South Australia) Act 2012 requires RCom to have a structured and disciplined approach to management of the asset lifecycle.

2. Purpose

Obtaining Type Approval is the process of certifying that a product proposed for use on the AMPRN meets its critical requirements for safe operations and maintenance. Type Approval is specific to:

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

Formal Type Approval is a prerequisite for RCom acceptance and use for rail related products.

There is no requirement to obtain Type Approval for facilities, construction activities, structures or one-off designs. These are subject to other RCom approval processes.

The purpose of this document is to describe the Type Approval process adopted by RCom for the introduction of new or modified safety critical rail products into the AMPRN.

3. Scope

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

Other considerations for asset Type Approval can include:

- harmonisation and standardization of equipment (i.e. with benefits to maintenance, spares and training);
- the product is used in a safety critical function where its failure can directly or indirectly affect the safety integrity of the railway;
- the product is used in a function where its failure can affect railway operations;
- and whether the product is used in a configuration such that the failure of an individual unit does not result in a failure of the system but where the impacts of such failures adversely impact the RTO's railway business.

4. Supporting information

4.1. Acronyms

ACRONYM	EXPANDED ACRONYM
AMPRN	Adelaide Metropolitan Passenger Rail Network
ITR	Independent Technical Reviewer
PAP	Product Approval Pack
PIP	Product Information Pack
RCom	The Rail Commissioner
RSNL	Rail Safety National Law
RTO	Rail Transport Operator
SFAIRP	So Far As Is Reasonably Practicable
SMS	Safety Management System

4.2. Definitions

TERM	DEFINITION
Discipline Group	RCom discipline teams responsible for the design, construction, modification, or removal, of AMPRN assets. The groups are: Track & Civil, Rolling Stock, Signals, Communications, Electrical (Traction Power/electrical services/earthing and bonding) and Overhead Wiring Engineering, Contracted Service Providers and Capital Works.
Discipline Group Lead	Person responsible for the management of an RCom Discipline Group. And in this case the 'evaluating RTO'.
New Product	A product that has not previously been used by the Rail Transport operator (RTO). For the avoidance of doubt, such new products may have been utilised by another RTO.
Standards Compliance Register	List of compliance and controls against the requirements contained in the RTOs standards and against those contained within relevant rail infrastructure and rolling stock Australian Standards
The Department	Department for Infrastructure and Transport
The Originator	The applicant for the Type Approval. This can be a supplier, a third party, or anyone within the RTO
Type Approval	Approval of a specific item of railway equipment, demonstrating SFAIRP that it is fit for purpose for a defined application meeting the requirements as applicable to the network.

4.3. Related documents

DOCUMENT TITLE	DOCUMENT NUMBER
Type Approval Certificate Template	TE-EM-AM-1567
Type Approval Checklist Template*	TE-EM-GE-1561
Management of Change process	PR-RC-MC-009
*This checklist has been developed in accordance with AS 7702 Rail Equipment Type Approval and must be used when evaluating a Type Approval application	

4.4. Referenced documents

REFERENCED DOCUMENTS	DOCUMENT ID
Rail Equipment Type Approval	AS 7702**
Code of Practice - Type Approval - Signalling	
**RCom adopts all the requirements specified in this standard. The term RTO refers to RCom. The term 'evaluating RTO' refers to RCom Discipline Group Leads.	

5. Roles and responsibilities

RCom expects every participant in this process to reference AS 7702 for detailed descriptions of documentation requirements relating to the activities they are assigned by this RCom Standard.

5.1. The Originator

The Originator must, in accordance with AS 7702:

- Prepare a Product Information Pack (PIP) using the Type Approval Checklist Template TE-EM-GE-1561
- Submit the PIP to the RCom Discipline Lead with all the technical data necessary to fully evaluate the product
- Provide one complete submission of the Type Approval documentation to the Discipline Group Lead.
- Submit a Standards Compliance Register for each product requiring Type Approval to the RCom Discipline Group Lead.

5.2. RCom Discipline Group Lead

The RCom Discipline Group Lead manages the Type Approval process and must, in accordance with AS 7702:

- Receive Type Approval requests from Originators
- Nominate a Type Approval Manager to manage the Type Approval process
- Assess suitability of candidates to take the role of Independent Technical Reviewer (ITR)
- Advise The Originator of the procurement specifications to be included in the Standards Compliance Register
- Nominate an ITR for the Type Approval product evaluation
- Ensure that a Product Approval Pack (PAP) is compiled containing the PIP, Type Approval Certificates, The Standards Compliance Register and the evaluation documents
- Ensure evaluations, including risk/safety assessments, and field trials are conducted as required. A temporary PIP may be compiled to enable field trials to take place.
- Ensure that relevant Safety Management System (SMS) documents are reviewed to assess the impact expected by the Type Approval of the product
- Endorse, approve and issue Type Approval certificates
- Withdraw Type Approvals when required.

5.3. Type Approval Manager

The Type Approval Manager supports the RCom Discipline Group Lead and must, in accordance with AS 7702:

- Prepare and oversee the Type Approval process
- Ensure that the Type Approval process is carried out
- Obtain Type Approval certificate numbers from RCom Document Management
- Review evaluations, field trials and prepare reports
- Review the PIP prepared using *Type Approval Checklist Template TE-EM-GE-1561* with the Originator
- Ensure all stakeholders are identified and consulted
- Make recommendations to the Discipline Group Lead for approving *Type Approval Certificate Template TE-EM-AM-1567*
- Compile the PAP
- Ensure that all Type Approval documentation is submitted to RCom Document Management for record keeping purposes following approval
- Review SMS documentation to assess Type Approval impacts and update SMS documentation accordingly.

The Discipline Group Lead may be the Type Approval Manager.

5.4. Independent Technical Reviewer

The ITR must, in accordance with AS 7702:

- Evaluate the Type Approval application guided by this document
- Independently review Type Approval applications in accordance with AS 7702

5.5. RCom Document Management

The RCom Document Management must:

- Issue a unique Type Approval certificate number, on request, for each Type Approval submission;
- Manage all records arising from Type Approval submissions;
- Maintain a register of all Type Approval submissions;
- Ensure the Type Approval standard and templates are available via the RCom intranet.

It is mandatory that all documentation related to the Type Approvals evaluation is managed via the **Management of Change PR-RC-MC-009** and is transmitted to RCom as referenced in the Type Approval Checklist. This must include all supplier evidence, document, and drawings.

6. Type Approval process

Figure 1 illustrates the process of obtaining Type Approval for AMPRN novel or modified safety critical rail products.

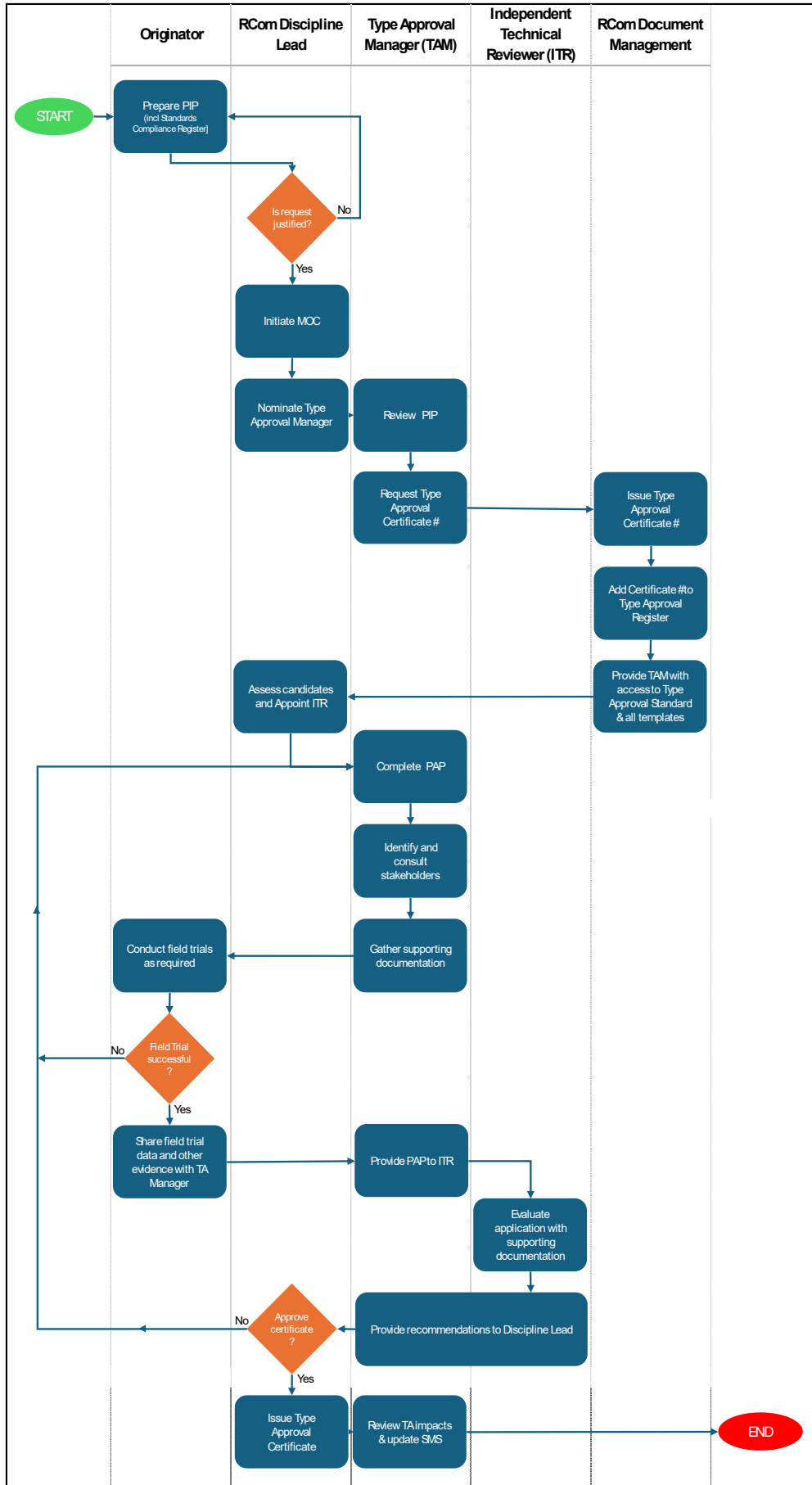


Figure 1 RCom Type Approval process flow