AS 7706:2017

Australian STANDARD®

# Interface with Points

RISSB
RAIL INDUSTRY SAFETY AND STANDARDS BOARD

Train Control Systems Standard

This Australian Standard® AS 7706 Interface with Points was prepared by a RISSB Development Group consisting of representatives from the following organisations:

| | | |
|---|---|---|
| Queensland Rail | Aurizon | Rio Tinto |
| Brookfield Rail | ARTC | John Holland |

The Standard was approved by the Development Group and the Train Control Systems Standing Committee in January, 2017. On March 23, 2017 the RISSB Board approved the Standard for release.

This standard was issued for public consultation and was independently validated before being approved.

Development of the standard was undertaken in accordance with RISSB's accredited process. As part of the approval process, the Standing Committee verified that proper process was followed in developing the standard.

RISSB wishes to acknowledge the positive contribution of subject matter experts in the development of this standard. Their efforts ranged from membership of the Development Group through to individuals providing comment on a draft of the standard during the open review.

I commend this standard to the Australasian Rail Industry as it represents industry good practice and has been developed through a rigorous process.

**Paul Daly**
Chief Executive Officer
Rail Industry Safety and Standards Board

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# Document Control

## Identification

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## Document History

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| Name | Date |
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# 1 Introduction

## 1.1 Purpose

The objective of this standard is to provide the Australian rail industry with a set of requirements to be used to define the interfaces with Points and Crossing Systems and control the risks associated with Point and Crossing Systems.

The Standard is intended to –

(a) specify the interfaces with points, including –
   i. safety functions;
   ii. interface with track;
   iii. interface with track support;
   iv. interface with personnel;
   v. interface with traction power system;
   vi. interface to other track and signal equipment;

(b) provide a uniform basis for compliance with the Rail Safety National Law;

(c) be able to cover differing rail operations across Australia.

## 1.2 Scope

This standard is intended to define the minimum interface requirements with Points and Crossing Systems.

This standard is not intended to supplant higher performance standards based on local experience and good engineering practice, which may be contained in the Point and Crossing System standards, codes, guidelines and procedures of individual States or Rail Infrastructure Managers.

### 1.2.1 Configurations

This standard is applicable to all configurations of moveable Track, examples of these are –

(a) Points or Switch Assemblies;

(b) 'V' Crossing – Swingnose;

(c) Catch Point;

(d) 'K' Crossing – Switchable;

(e) Slip – Single or Double.

## 1.3 Compliance

There are two types of control contained within RISSB Standards:

(a) Mandatory requirements.

(b) Recommended requirements.

Each of these types of control address hazards that are deemed to require controls on the basis of existing Australian and international Codes of Practice and Standards.