Australian Standard®

Railway safety management

Part 4: Signalling and telecommunications systems and equipment

This Australian Standard was prepared by Committee ME/79, Railway Safety. It was approved on behalf of the Council of Standards Australia on 14 February 1997 and published on 5 April 1997.

The following interests are represented on Committee ME/79:

Association of Railway Preservation Groups

Australasian Railway Association

Australian Chamber of Commerce and Industry

Australian National

Australian Railway Industry Corporation

Australian Services Union

Department of Transport and Regional Development

Department of Infrastructure, Victoria

Institution of Engineers, Australia

National Public Transport Training Board

National Rail Corporation

New South Wales Department of Transport

Public Transport Corporation, Victoria

Queensland Rail

Queensland Transport

State Rail Authority of N.S.W.

Trans Adelaide

WestRail

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PREFACE

This Standard was prepared by the Standards Australia Committee on Railway Safety in conjunction with AS 4292.1 to provide a means of demonstrating compliance with that Standard in the relevant technical area.

This Standard is part of a series of Standards on railway safety. When complete, the series will comprise the following:

AS
4292.1 Part 1: General and interstate requirements
4292.2 Part 2: Track, civil and electrical infrastructure
4292.3 Part 3: Rolling stock
4292.4 Part 4: Signalling and telecommunications systems and equipment
4292.5 Part 5: Operational systems
4292.6 Part 6: Railway interface with other infrastructure

The term 'informative' has been used in this Standard to define the application of the appendix to which it applies. An 'informative' appendix is for information and guidance.

CONTENTS

FOREWORD

A means of complying with this Standard may be by an organization entering into a commitment to conform to a code of practice which has been deemed by an appropriate authority to comply in respect of the organization's type of operation. It is envisaged that in time, a range of codes of practice applicable to specific railway activities may be developed to address different types of railway operation such as tramways, tourist/heritage, short haul and advanced technology railways, as well as interstate and other main line operations.

STANDARDS AUSTRALIA

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Part 4: Signalling and telecommunications systems and equipment

SECTION 1 SCOPE AND GENERAL

1.1 SCOPE This Standard specifies technical requirements to be considered for inclusion in engineering systems safety standards forming part of a railway safety management system prepared in accordance with AS 4292.1, in respect of the signalling and telecommunications systems and equipment. It also addresses requirements for an interface coordination plan which specifies the information which must pass across the interfaces between the various functional areas of railway organizations to enable these standards and procedures to be implemented, and to ensure compatibility between these functional areas.

1.2 APPLICATION This Standard sets requirements and provides guidelines for preparing or adopting engineering and operating systems safety standards and procedures to comply with the relevant requirements of AS 4292.1. It is recognized however, that additional or alternative matters and requirements may need to be considered for each railway application. The applicability of each element of these guidelines should be determined by the level of risk it imposes on each operation (see Clause 1.8). In applying this Standard the following matters should be taken into account:

(a) The role of the railway.

(b) The function in the organization of the person, corporation, contractor or supplier who is applying the Standard.

(c) The commercial agreements between owners, operators and functional areas.

(d) The promotion of commercial and technological innovation.

(e) Existing safety procedures and practices.

(f) The need to determine which life cycle phases (see Clause 1.5) are applicable to an organization.

NOTE: Attention is drawn to the Foreword which describes a means of complying with this Standard.

1.3 REFERENCED DOCUMENTS The following documents are referred to in this Standard:

AS
4292 Railway safety management
4292.1 Part 1: General and interstate requirements
4292.2 Part 2: Track, civil and electrical infrastructure
4292.3 Part 3: Rolling stock
4292.5 Part 5: Operational systems

AS/NZS
4360 Risk management