



RISSB

RAIL INDUSTRY SAFETY AND STANDARDS BOARD

Industry's partner
in co-regulation



ONE STANDARDS, CODES OF PRACTICE, GUIDELINES AND RULES

RISSB drives national harmonisation and interoperability by working hand in hand with industry to develop Standards, Codes of Practice, Guidelines and Rules. RISSB has a catalogue of more than 200 publications covering all aspects of rail. These publications improve safety, offer safety assurance, reduce costs and increase productivity and efficiency. RISSB Standards are Australian Standards®. RISSB publications can also be used in New Zealand.

Industry is involved by proposing, helping select and providing expertise in developing Standards, Codes of Practice, Guidelines and Rules. In this partnership with industry, RISSB balances input from both a technical and business perspective, actively encouraging input from all organisations and all levels within those organisations. RISSB is developing Standards for both the heavy rail and burgeoning light rail industry in Australia and New Zealand. All RISSB members have complete access to all publications.

By being a RISSB member, you are not only helping move the rail industry forward, but also contributing to the development of more than 20 publications per year that help industry manage risk and progress major projects focused on harmonisation and interoperability.

→ www.rissb.com.au/products/

TWO SAFETY DATA AND RISK ANALYSIS MODELS

RISSB collects and analyses incident data for the rail industry. RISSB has developed the Australian Rail Risk Model (ARRM), an objective, quantitative tool that provides rail organisations with a deep, robust and comprehensive picture of safety risk. RISSB is also working with governments to take over management of the Australian Level Crossing Assessment Model (ALCAM) providing rich data for the analysis of level crossing risks.

ARRM and ALCAM provide industry with tools that can drive safety reform. Industry involvement in ARRM continues to grow with the addition of more organisations and more users within organisations each year. Every RISSB member has complete access to our risk analysis models.

→ www.rissb.com.au/safety-tools/arm/

RISSB is the ONLY accredited standards development organisation for the rail industry in Australia

RISSB Standards are Australian Standards®



CASE STUDY

1085.1 RAILWAY TRACK MATERIAL, PART 1: STEEL RAILS

In November 2017, RISSB took over management from Standards Australia of the AS 1085 series of Standards. Those Standards are effectively the specification for the infrastructure that is the backbone of Australia's rail sector. They provide our infrastructure managers with the critical detail they require to build and maintain their networks. The first in the series, 1085.1 Railway track material, Part 1: Steel rails, was redeveloped by RISSB and published in 2019. This Standard provides purchasers and suppliers, including owners, operators, designers and manufacturers of railway rail, with requirements for as-rolled and hardened steel rails, made from continuously cast blooms. This Standard has the potential to help rail transport operators significantly reduce their maintenance costs over the long term.

RISSB's value to industry

RISSB is driving national harmonisation and interoperability, moving the rail industry towards technical and operational consistency, improving safety, lowering costs and enhancing productivity.

RISSB is industry's partner in co-regulation, supporting and working hand in hand with the Australian and New Zealand rail industry to provide the essential tools rail organisations need – good practice Standards, Codes of Practice, Guidelines and Rules. RISSB is the only accredited Standards development organisation for the rail industry in Australia and has a vast catalogue of more than 200

publications, all of which help industry improve safety, reduce costs and increase productivity and efficiency. RISSB publications can also be used in New Zealand.

During a period of unprecedented growth, RISSB has established itself as an industry leader in co-ordinating industry, promoting interoperability and harmonisation, and championing safety.

Delivering Value

Before RISSB, rail organisations were forced to bear development costs and safety and operational risks that arose from bringing Standards development in-house. One rail operator estimated recently that producing and validating a Standard internally would cost their organisation \$100,000 to \$200,000.

ARRM

AUSTRALIAN RAIL RISK MODEL

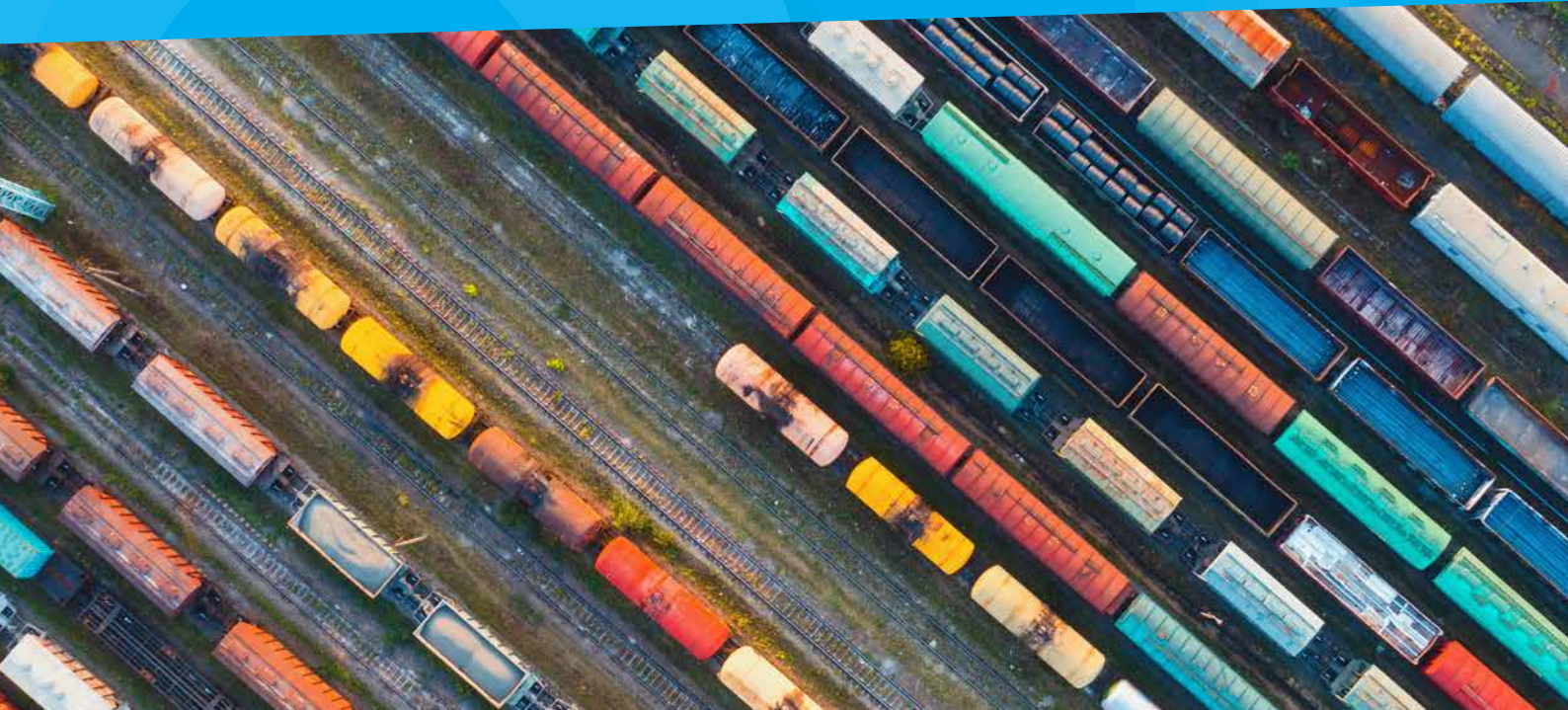
RISSB has developed ARRM as an objective, quantitative tool that provides rail organisations with a comprehensive picture of safety risk.

It is used to inform:

- + Investment decisions by rail companies and governments
- + Safety cases
- + RISSB's work program of Standards, Codes of Practice, Guidelines and Rules
- + Research
- + Cross-industry collaboration
- + Major new RISSB safety projects and initiatives.

ARRM is Australia's only national, system-wide rail risk model, providing a tool to assist rail organisations to achieve safety So Far As Is Reasonably Practicable (SFAIRP). For participating rail companies, ARRM provides organisationally specific risk information that users can interrogate in multiple ways, through a simple and user friendly interface, to produce a wide range of reports. It provides the ability to benchmark your organisation's levels of risk against anonymised aggregated risk information from other similar rail organisations.

ARRM's risk information can help to identify areas for improvement, support safety initiatives, and can be used to inform Executive decision-making. Since its launch, ARRM has processed more than 250,000 occurrence records and modelled safety risk across over 100 different hazardous events. ARRM user numbers and organisations involved are growing by around 20% each year.



THREE TRAINING AND ADVICE

RISSB training programs offer unsurpassed technical, theoretical and practical knowledge critical to rail safety. Programs are focused on RISSB products and can be industry wide or tailored for a specific rail organisation with 10 or more people interested in the training program. RISSB members get discounts on training programs.

RISSB offers a number of relevant courses including:

- + Rail Safety Investigation
- + Derailment Investigation and Analysis
- + Safety Critical Communications
- + Fundamentals of Risk

RISSB is expanding its training program with an emphasis on delivering training to support industry adoption of RISSB publications. Future RISSB courses will be centred on key industry issues and will include e-learning modules and innovative training programs such as the Fundamentals of Rail and the National Track Safety Induction course. This course has been developed by the rail industry for those rail workers seeking accredited competency in TLIF 2080 – Safely Accessing the Rail Corridor.

RISSB also offers technical advice to industry on RISSB Standards, Guidelines, Codes of Practice and Rules and broader safety matters.

→ www.rissb.com.au/training/

COURSE EXAMPLE

RAIL SAFETY INVESTIGATION COURSE

The Rail Safety Investigation Course is an engaging and interactive foundation training course that provides participants with an understanding of the principles, methods, processes and legal requirements for investigating rail safety.

RISSB's Rail Safety Investigation course is perfect for those new to rail industry investigations, safety personnel who may be required to assist in rail safety investigations or those who wish to broaden or refresh their investigation and analysis skills for rail safety occurrences.

The course covers:

- + Legal Requirements to Investigate
- + Rail Safety Investigation Principles
- + Investigations Processes
- + Severity and Planning the Investigation
- + Evidence Collection
- + Evidence Analysis
- + How to Structure/Present an Investigation Report.

Upon successful completion of the Safety Investigation Course, participants will receive a Statement of Attainment for the nationally accredited unit of competence for TLIF 5017 – Investigate Rail Safety Incidents.



FOUR EVENTS AND PROGRAMS

RISSB offers a range of events and programs addressing the future challenges of the rail industry and supporting the development of rail professionals, including young professionals.

RISSB's events and programs include two conferences (Rail Safety and Technology and Innovation), a range of forums and the Horizons Program (young technical professionals). These provide an opportunity for members to share and gain knowledge and expand their professional network.

RISSB members receive discounts to all events and programs.

→ www.rissb.com.au/events/

HORIZONS PROGRAM

The Horizons Program is for young professionals (35 years or younger) and:

- + Provides a forum for knowledge sharing and learning focused on technology and innovation
- + Extends the participant's professional network on a national scale both within and outside the rail industry
- + Provides participants with the skills to drive and manage change
- + Encourages young professionals to provide technical input into RISSB's and the rail industry's future
- + Assists in improving the safety and productivity of the rail industry by providing input into RISSB publications
- + Provides the chance to meet and hear from CEOs and senior executives from within and external to the rail industry.

Horizons 1.0 and 2.0 have both attracted around 50 participants from over 30 rail organisations. The Horizons Program includes forums, webinars, site visits, working with RISSB, preparing and presenting group projects, and networking functions.



Horizons



RAIL SAFETY CONFERENCE

RISSB's Rail Safety Conference is Australia's premier rail safety event. Attendees hear from experts and safety professionals from across the Australian and international rail sectors in a comprehensive 2-day conference featuring case studies, best practice insights and innovative risk management strategies.

The conference format features:

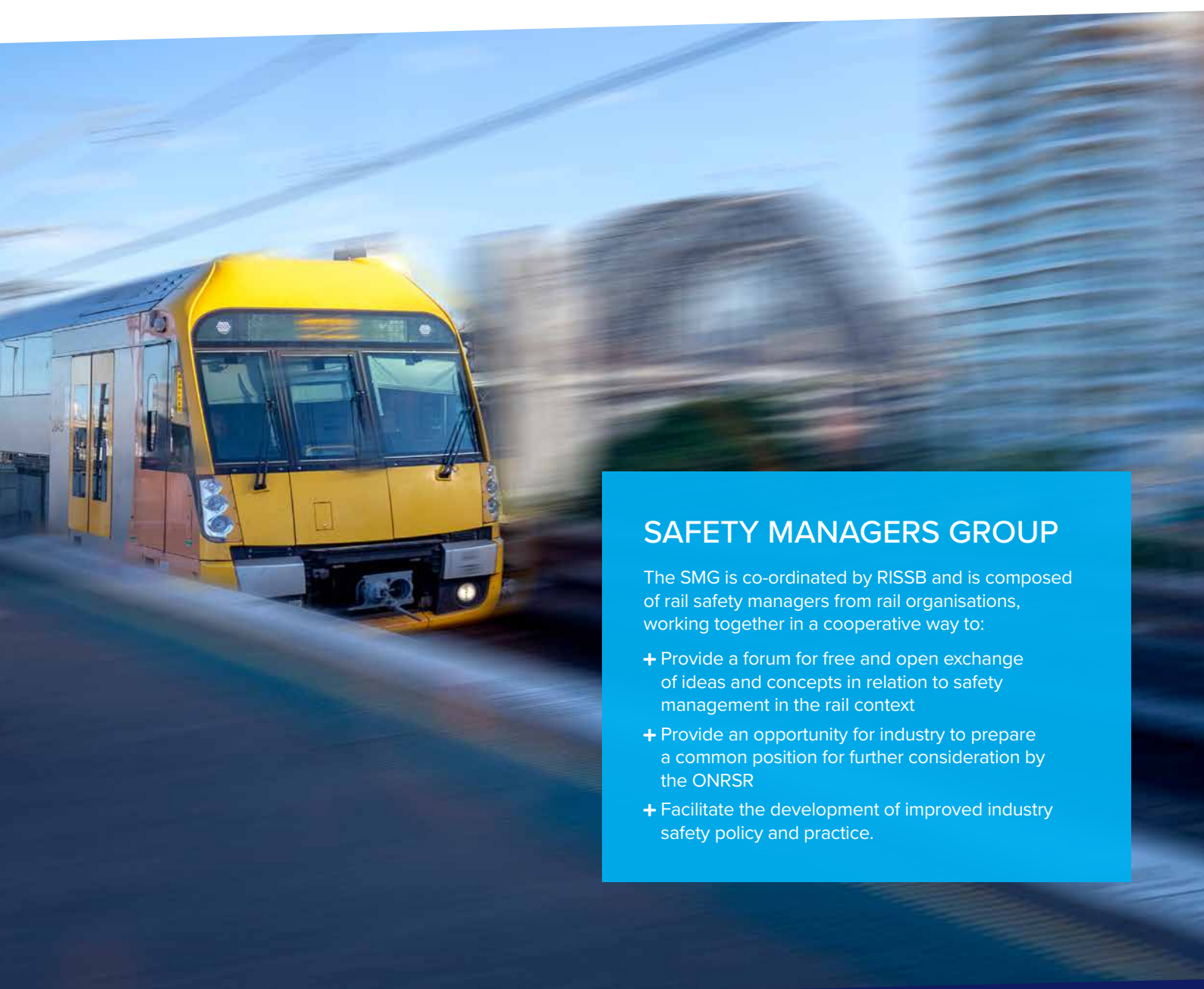
- + Plenary sessions including keynotes, thought provoking presentations and panels such as the popular 'Ask the Regulator' session
- + Concurrent streams focusing on current rail safety issues
- + Guided site visits
- + Workshops.

FIVE INDUSTRY CO-ORDINATION

RISSB co-ordinates meetings of key industry groups including the Safety Managers Group (SMG), SPAD Group, Human Factors Managers Group and the National Track Worker Safety Forum. RISSB members are actively involved in developing the agenda for these meetings and driving change in industry.

RISSB's co-ordination and facilitation ensures industry is sharing best practice, learning from each other, driving innovation and reducing procurement and other costs. RISSB co-ordinated industry meetings bring together industry, ONRSR, ATSB and other key industry stakeholders to resolve issues and develop agreed ways forward.

→ www.rissb.com.au/about/our-committees-and-groups/



SAFETY MANAGERS GROUP

The SMG is co-ordinated by RISSB and is composed of rail safety managers from rail organisations, working together in a cooperative way to:

- + Provide a forum for free and open exchange of ideas and concepts in relation to safety management in the rail context
- + Provide an opportunity for industry to prepare a common position for further consideration by the ONRSR
- + Facilitate the development of improved industry safety policy and practice.