

# Australian Rail Network **Security Handbook** *Volume 1*

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## Managing Security Related Risks in Rail Organisations

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## Related Documents

An up to date list of related and supporting documents can be found via the Rail Industry Safety Standards Board web site at <http://www.rissb.com.au>.

## Standards

- AS/NZS 4360:2004 Risk management, Sydney: SAI Global
- AS 4421:1996 Guards and patrols, Sydney: SAI Global
- AS 1725:2003 Chain-link fabric security fencing and gates, Sydney: SAI Global
- AS/NZS 3016:2002 Electrical installations - Electric security fences, Sydney: SAI Global
- AS/NZS 4255.1:1994 Security seals - Classification, Sydney: SAI Global
- AS/NZS 4255.2:1994 Security seals - Use, Sydney: SAI Global
- AS/NZS 7799.2:2003: Information security management - Specification for information security management systems, Sydney: SAI Global
- HB 231:2004 Information security risk management HANDBOOKs, Sydney: SAI Global
- AS/NZS ISO/IEC 17799:2001 Information technology - Code of practice for information security management, Sydney: SAI Global
- AS 2201.1:1998 Intruder alarm systems - Systems installed in client's premises, Sydney: SAI Global
- AS 2201.2:2004 Intruder alarm systems - Monitoring centres, Sydney: SAI Global
- AS 2201.3:1991 Intruder alarm systems - Detection devices for internal use, Sydney: SAI Global
- AS 2201.4:1990 Intruder alarm systems - Wire-free systems installed in client's premises, Sydney: SAI Global
- AS 2201.5:1992 Intruder alarm systems - Alarm transmission systems, Sydney: SAI Global
- DR 04220 Intruder alarm systems - Part 5: Alarm transmission systems, Sydney: SAI Global
- AS/NZS 3749.1:2003 Intruder alarm systems - Road vehicles - Performance requirements, Sydney: SAI Global
- AS/NZS 3749.2:1997 Intruder alarm systems - Road vehicles - Installation and maintenance, Sydney: SAI Global
- AS 3745:2002 Emergency control organization and procedures for buildings, structures and workplaces, Sydney: SAI Global
- AS 2931:1999 Selection and use of emergency procedure guides for the transport of dangerous goods, Sydney: SAI Global
- AS 4145.1:1993 : Locksets - Glossary of terms, Sydney: SAI Global
- AS 4145.2:1993 : Locksets - Mechanical locksets for doors in buildings, Sydney: SAI Global
- Railway Safety and Corridor Management Act 1992 (NZ)
- Security Industry Act 2003 (ACT)
- Security Industry Act 1997 (NSW) & Security Industry Amendment Act 2005 (NSW)
- Security and Investigation Agents Act 1995 (SA)
- Security Providers Act 1993 (Qld)
- Security and Investigations Agents Act 2002 (Tas)
- Private Security Act 2004 (Vic)
- Security and Related Activities (Control) Act 1996 (WA)
- Private Investigators and Security Guards Act 1974 (NZ)
- Security Legislation Amendment (Terrorism) Act 2002 (Commonwealth)
- Commonwealth Places (Application Of Laws) Act 1970 (Commonwealth)
- Intelligence Services Act 2001 (Commonwealth)

- Maritime Transport and Offshore Facilities Security Act 2003 (Commonwealth)
- Workplace Surveillance Act 2005 (NSW)
- Privacy and Personal Information Protection Act 1998 (NSW)
- Surveillance Devices Act 1999 (Vic)
- Information Privacy Act 2000 (Vic)
- Privacy Act 1988 (Commonwealth)
- Public Records Act 2002 (Qld)
- Terrorism (Commonwealth Powers) Act 2002 (Qld)
- Terrorism (Commonwealth Powers) Act 2002 (NSW)
- Terrorism (Commonwealth Powers) Act 2002 (SA)
- Terrorism (Commonwealth Powers) Act 2002 (Tas)
- Terrorism (Commonwealth Powers) Act 2003 (Vic)
- Terrorism (Commonwealth Powers) Act 2002 (WA)
- Terrorism (Emergency Powers) Act 2003 (NT)
- Terrorism (Police Powers) Act 2002 (NSW)
- Terrorism (Community Protection) Act 2003 (Vic)
- Occupational Health and Safety (Commonwealth Employment) Act 1991 (Commonwealth)
- Occupational Health and Safety Act 1989 (ACT)
- Occupational Health and Safety Act 2000 (NSW)
- Work Health Act (NT)
- Workplace Health and Safety Act 1995 (Qld)
- Occupational Health, Safety and Welfare Act 1986 (SA)
- Workplace Health and Safety Act 1995 (Tas)
- Occupational Health and Safety Act 2004 (Vic)
- Occupational Safety and Health Act 1984 (WA)
- Health and Safety in Employment Act 1992 (NZ)
- Injury Prevention, Rehabilitation, and Compensation Act 2001 (NZ)
- Environmental Planning and Assessment Amendment (Infrastructure and Other Planning Reform) Act 2005 (NSW)

## Codes of Practice

- WorkCover Code of Practice – Cash in Transit (2002)
- A National Approach to Closed Circuit Television – National Code of Practice for CCTV Systems for the Mass Passenger Transport Sector for Counter-Terrorism (COAG July 2006)

## RISSB HANDBOOKS

- Security Handbook Vol 2 - Assessment of Security Related Risks in Rail Organisations

## Other

- Attorney-General's Department (2005) National Counter-Terrorism Plan, Canberra: CoA
- Department of Transport and Regional Services (2004) Guide to Preparing a Surface Transport Security Plan, Canberra: Department of Transport and Regional Services, Canberra: DOTARS.
- Department of Transport and Regional Services (2004) Land & Water Based Mass Passenger Transport Systems, Risk Context Statement, Canberra: Department of Transport and Regional Services, Canberra: DOTARS.

- Department of Transport and Regional Services (2004) Land Transport Security Assessment Guidance Paper, Canberra: Department of Transport and Regional Services, Canberra: DOTARS.
- NSW Ministry of Transport (2006) Example Rail Security Policy & Rail Security Plan, Sydney: Ministry of Transport.
- Commonwealth Attorney-General's Department (2005) Commonwealth Protective Security Manual, Canberra: CoA.
- WorkCover NSW (2002) Violence in the Workplace Guide, Sydney: WorkCover.
- Australian Bomb Data Centre (undated) Bomb Safety Programme: HANDBOOKs for mail Bomb Countermeasures, Canberra: Australian Federal Police.
- Australian Bomb Data Centre (undated) Bombs Defusing the Threat, Canberra: Australian Federal Police.
- Balog, J. & Schwarz, A (1996) Transit Security Procedures Guide, US Federal Transit Administration, San José, CA. USA: MTI
- Balog, J. & Schwarz, A (1994) Transit System Security Planning Guide, US Federal Transit Administration, San José, CA. USA: MTI
- Boyd, A. & Caton, J (1998) Transit Security Handbook, US Federal Transit Administration, San José, CA. USA: MTI
- Boyd, A. & Caton, J (1998) Critical Incident Management HANDBOOKs, US Federal Transit Administration, San José, CA. USA: MTI
- Boyd, A. & Sullivan, J.P. (1997) Emergency Preparedness for Transit Terrorism, US Federal Transit Administration, San José, CA. USA: MTI
- Jenkins, B.M & Edwards-Winslow, F (2003) Saving City Lifelines: Lessons Learned in the 9-11 Terrorist Attacks, San José, CA. USA: MTI
- Jenkins, B.M (2001) Protecting Public Surface Transportation Against Terrorism and Serious Crime: Continuing Research on Best Security Practices, San José, CA. USA: MTI
- Jenkins, B.M (2001) Protecting Public Surface Transportation Against Terrorism and Serious Crime: An Executive Overview, San José, CA. USA: MTI
- Jenkins, B.M (1997) Protecting Surface Transportation Systems and Patrons from Terrorist Activities, San José, CA. USA: MTI
- Mineta Transportation Institute (2002) California Transportation Security Summits, San José, CA. USA: MTI
- IISTPS (1996) Terrorism in Surface Transportation: A Symposium, San José, CA. USA: MTI
- Sarre, R. and Prenzler, T. (2005) The Law of Private Security in Australia, Sydney: Lawbook Co.
- Taylor, Brian (2005) Designing and Operating Safe and Secure Transit Systems: Assessing Current Practices in the United States and Abroad, San José, CA. USA: MTI
- US-GAO (2005) Passenger Rail Security, GAO Congressional Report -05-851
- Transportation Research Board (2002), Special Report 270 – Deterrence, Protection, & Preparation - The New Transportation Security Initiative, Washington DC
- Transit Cooperative Research Program, 2006, HANDBOOKs for Transportation Emergency Training Exercises, Report 86 (Vol 9), Transportation Research Board, Washington DC

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# 1 Introduction

