Operational Safety Risk Management

What is it?

Operational Safety Risk Management is the integrated approach to identifying and managing safety risk in the operational environment and defining and implementing changes that can affect rail system safety, while ensuring safety risks arising from human factors are minimised.

Operational Safety Risk Management includes explicit consideration of the following:

- Operation and maintenance of rolling stock on any network;
- Operation and maintenance of network infrastructure, including track, electrical, communications, signalling, civil and facilities;
- Interfaces with all other organisations whose operations could affect the mainline railway.

Why is it important?

The Railways and Other Guided Transport Systems (Safety) Regulations 2006 (as amended) (ROGS) were introduced to put the requirements of the 2004 European Railway Safety Directive into practice in Great Britain. ROGS give transport operators a specific duty to carry out a ‘suitable and sufficient’ assessment of the safety risks involved in running the transport system. The purpose of conducting such assessments is to identify the measures needed to make sure the rail system runs safely.

What we do

- Define operational safety strategy
- Operational safety risk management, assessment, profiling, reporting and review
- Risk Registers, Risk Controls
- Control effectiveness assessment and establishment of performance standards
- Operating/maintenance procedure review/design (e.g. Hazard and Operability Studies)
- Practical and compliant application of the Common Safety Methods
- Suitable and sufficient level crossing risk assessments

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Offices across the UK
Our work

CRA has considerable experience in the operational safety risk management domain. Some examples of our work are:

- Integrated engineering hazard record into the client’s corporate record for the Epping to Chatswood Rail Link and three sets of rolling stock; the Waratahs, Hunters and Oscars;
- Delivered ALARP review of Worksite Protection and associated quantitative cost benefit analysis. Position on reasonable practicability of improvement options accepted and delivered real safety improvement;
- Maintained and developed the GB Safety Risk Model versions 3, 4 and 5 and created the associated Risk Profile Bulletins at RSSB;
- Created a high integrity operational safety risk register for client. Delivered this high profile project on time and to budget through the effective collaboration of client and industry partners. Explicitly represented safety risk to workers, supply chain workers and the public in a single register of causes, consequences, controls and control effectiveness for identified hazardous events. Created a defensible safety risk profile for the client and each of its eight divisions. Chaired and scribed bow-tie analysis workshops for five hazardous events;
- Independent peer review of ALCRM (All Level Crossing Risk Model) and ALCAM (Australian Level Crossing Assessment Method).