



# ERS

Providing HSE Management Solutions



## WHO WE ARE

### Company Profile

Environmental Risk Solutions Pty Ltd (ERS) is an Australian owned and operated company. Since 1995, we have been providing our clients with Health, Safety, and Environment (HSE) risk assessment, risk management and training solutions.

We assist our clients in meeting their industry and statutory HSE obligations, mitigate and help manage risks in relation to all company, employee, and contractor activities by providing customised, integrated and cost effective solutions.

### Company Philosophy

ERS is dedicated to contributing to the economic growth of Australian and overseas projects and ongoing operations by enhancing the HSE and quality aspects of these developments for our clients.

### Industry Experience

Our client base includes national and multinational companies operating in Australia, New Zealand, United States, the Pacific Rim, Southern Africa, Middle East, and Europe.

From large major hazard facilities (MHF) to smaller operations, our clients conduct business across a wide variety of industry sectors: offshore and onshore oil and gas, chemical, mining, refining, water, power and transport industries, government agencies, ports and private commercial companies.

### Personnel

ERS personnel have varied professional and technical backgrounds in engineering, science and supporting disciplines that establishes a solid foundation for providing our clients with effective and efficient solutions.

Our personnel are efficient, energetic and personable. We excel at finding solutions that fulfil our clients' needs.

### Value Adding for Clients

At ERS, we provide our services using the following principles:

- ✓ Working with clients to clearly identify needs, define objectives and outcomes
- ✓ Assisting with strategic planning and project feasibility planning
- ✓ Delivering integrated, streamlined and continuing solutions
- ✓ Using extensive experience of qualified, competent and professional personnel
- ✓ Scoping and managing work in the most technically correct, cost effective and efficient manner
- ✓ Supporting clients with an ethical, reliable, amiable and flexible service
- ✓ Exercising confidentiality, professional care and judgment
- ✓ Maintaining our corporate, regulatory and best practice knowledge
- ✓ Supplying suitable specialist services



## Qualitative Risk Assessment

Businesses are required to continually identify hazards, assess risks and implement measures to reduce those risks. We undertake a wide range of risk assessments on a regular basis and use the results to develop safety performance monitoring systems, action plans and databases to track correctional and compliance actions.

The risk assessment services provided by ERS include all aspects of preparation, facilitation, scribing (minute taking), report preparation and, where requested, recommended action tracking and closeout. These studies include:

- HAZard and OPerability (HAZOP)
- HAZard IDentification (HAZID)
- Simultaneous Operations (SIMOPS)
- Bow Tie Analysis
- Event Tree Analysis (ETA)
- Fault Tree Analysis (FTA)
- Failure Mode and Effect Analyses (FMEA)
- Hazardous Area Classification (HAC)

We use risk assessment templates customised to meet specific customer needs. We also use commercially available risk assessment software when directed by our clients.

## Quantitative Risk Assessment

ERS also conducts various types of consequence assessments:

- Quantitative Risk Analysis (QRA)
- Layers of Protection (LOPA)
- Safety Integrity Level (SIL)

- Fire and Explosion Risk Analysis (FERA)
- Occupied Building Risk Analysis (OBRA)

Such assessments ensure our clients have the information they need to effectively manage their facilities' risks.

## Environmental Assessment

ERS has comprehensive environmental management experience on a range of projects for our clients' industries, such as:

- Work Approvals
- Environmental Impact Assessment (EIA)
- Public Environmental Report (PER)
- Environmental Aspect Register
- Environmental Protection Authority Referral
- National Pollutant Inventory (NPI)

We also work with clients to develop a risk management system that includes databases to record findings from Environmental Licence Audits.

We consult and negotiate with regulatory authorities throughout the project lifecycle to ensure all relevant statutory obligations are met. Where necessary, community consultation and information dissemination is undertaken as part of the Environmental Impact Assessment process.

## Modelling

ERS uses a suite of modelling software to assess the impact of odour emissions, dust deposition, nuisance noise sources and wastewater discharges on the environment.





## Risk Management Systems

We create, implement and assess Risk Management Systems that are consistent with our clients' management culture, for example:

- Integrated Risk Management System (IRMS)
- Safety Management System (SMS)
- Environmental Management System (EMS)
- Bridging documentation

These systems enable our clients to plan and control activities, implement change and meet regulatory and industry requirements. As necessary, we create plans, programs, procedures, instructions and forms for clients' systems.

## Safety Cases / Reports

ERS has experience providing safety case assessments and reports. Our clients benefit greatly from our capability to provide all aspects of MHF safety case development, formal safety and risk assessments, consequence modelling, emergency response planning, management system development, workforce involvement, and independent reviews and audits. Further, our industry and regulatory knowledge makes ERS well positioned to support our clients' MHF licence applications and renewals.

## Dangerous Goods

ERS is an accredited Dangerous Goods (DG) consultant with the WA Department of Mines and Petroleum. We assist clients

with meeting DG compliance requirements by providing a range of DG management services including auditing in compliance with relevant Australian Standards and Codes of Practice, gap analyses, site wide risk assessments, licence assessment reports and endorsements.

A DG Report developed by ERS provides an organisation with a comprehensive list of DGs, status regarding compliance with relevant standards and regulations and recommendations for improvement, documentation and manifests.

## Auditing

Our auditors undertake structured, independent audits of systems to assess their performance and suitability. The audit report lists non-compliances, references to relevant standards and regulations and actions to address non-compliances. ERS also assists in developing Action Plans for clients. In consultation with regulatory bodies and clients ERS has developed several audit checklists as well as Audit Protocols for our clients' use. ERS undertakes:

- Compliance and system audits
- Due diligence audits
- ISO 14001 audits
- Environmental licence audits
- MHF audits against relevant instrument

## Incident Investigation

ERS assists clients with the investigation of incidents using Root Cause Analysis methodology such as FTA and FMEA.





## Training

ERS training courses are aimed at assessing and improving performance, fostering an understanding of critical requirements and immediately acquiring practical techniques. Qualified presenters apply their extensive experience to tailor made courses to provide effective, current and relevant material that meets client needs. Training services include:

- HAZOP Leadership and Participation
- Dangerous Goods Storage and Handling
- Risk Management
- Emergency Management and Incident Investigation
- Management of Change (MoC)

## Technical Writing

ERS provides professional technical writing services to ensure that the HSE documents our clients provide to regulators, the public, employees, and contractors are accurate, comprehensive, clear and concise.

## Emergency Planning

Working in consultation with employees, emergency service providers and the community, we assist in developing

emergency systems manuals tailored to meet an organisation's responsibilities in safeguarding people, property, and environment. Services we provide include:

- Emergency Management Planning
- Emergency Response Documentation, including Plans, Maps, Procedures and Forms
- Emergency Response Training and Exercises

## Software

ERS maintains a broad base of proprietary software and licenses to support the services we provide including:

- TNO RISKCURVES
- TNO EFFECTS
- pDs AUSMod
- A.D. Little FaultrEASE
- Governors BowTieXP
- US EPA ALOHA
- US EPA CAMEO
- Exida ExSILentia

We also have relationships with other process hazard analysis companies that enable us to provide our clients with additional services such as computational fluid dynamics modelling and SIL studies.

## Looking for more information?

Please contact us at [solutions@ers.com.au](mailto:solutions@ers.com.au) or visit our website [www.ers.com.au](http://www.ers.com.au)  
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