RISK & SAFETY ENGINEERING

Offering a Full Range of Services Across the Asset Lifecycle

OUR COMPANY

Bureau Veritas offer an extensive range of high level safety engineering and risk management services to the major hazard industries, including offshore and onshore oil and gas, chemical processing & refining, mining, power & dangerous goods storage, and transport. Combined with other core risk management services in Environment and Asset Optimisation, Bureau Veritas deliver a full range of services across the safety lifecycle for a facility.

OUR CORE SERVICES

Safety Cases

Our capabilities include extensive experience in the preparation and revision of Safety Cases for both offshore and onshore Major Hazard Facilities (MHF). Bureau Veritas has received international recognition as being an 'industry leader' in its ability to develop Safety Cases. Since 2000, we have undertaken the development or update of over 50 Safety Cases, most requiring regulatory acceptance.

Our team of engineers have demonstrated knowledge and understanding of all elements of a Safety Case and the associated regulatory and legislative requirements for MHF in Australia. Their experience includes the three major components of a Safety Case:

- Facility Description;
- Safety Management System;
- Formal Safety Assessment.

Safety & Risk Workshops

Bureau Veritas prides itself on its ability to conduct workshops that give you the practical tools and know how to minimise safety risks. We offer a number of positive solutions ranging from planning, facilitating and scribing workshops to ensure your risk and safety strategies are second to none.

Our HAZOP facilitators are hand picked from the most experienced personnel in industry and are specially trained to provide you with the best service.

Bureau Veritas uses a variety of tools to support the workshop process to enable:

- more effective recording of workshop proceedings;
- a quicker turnaround and delivery of workshop reports;
- efficient distribution of workshop recommendations to attendees.

RELATED **SERVICES**

Asset Optimisation

- RAM Simulation
- Design & Plant Optimisation
- Supply Chain Modelling
- Gas Contract Analysis
- Maintenance Strategy Development
- Asset Integrity Management

Environment

- Project Approvals
- Environmental Risk Assessments
- Environmental Impact Assessments
- ISO14001 Environmental Management Systems
- Audits

WORKSHOP **EXPERTISE**

Bureau Veritas have refined and developed our risk management workshop process, allowing you to access our experience and extensive library of hazard information. We have proven workshop competencies in:

- Hazard identification (HAZID)
- Hazard & Operability (HAZOP)
- Layers of Protection Analysis (LOPA)
- Safety Integrity Level (SIL) Assessment
- SIMOPS
- ALARP demonstration
- Control Identification & Assessment
- Layout Reviews
- Pipeline Risk Assessment

Online Risk Register & Action Tracking Software

Online Risk Register and Action Tracking is Bureau Veritas' proprietary software and is designed to store, assess, evaluate, treat, manage and monitor a company's risk profile. In a secured framework, on-line access will assist with transparency, continuously keeping your risk profile up-to-date, as well as providing the foundation for operational hazard management.

Relevant information such as documents, scanned photos and links to corporate procedures can be attached to hazards. The risk register can be customised with company- specific labels and risk matrices.

RISK REGISTER **FEATURES**

- Online—software can be accessed from anywhere using any compatible internet browser
- Real time (living document) – all information stays up to date
- Robust security architecture
- Software can be hosted locally or remotely on Bureau Veritas servers
- Facilitates a complete and transparent audit trail

Technical Risk Analysis

Bureau Veritas have the expertise and experience in conducting technical risk analysis to assist organisations in understanding and assessing their major risk exposures, identifying opportunities to improve overall risk management performance, and supporting and reinforcing the decision making process.

We have specific competencies in:

- Quantitative Risk Assessment (QRA);
- Qualitative risk assessment;
- Bow-tie diagram analysis;
- Fire and Explosion Assessments (FEA);
- Marine, transport and non-hydrocarbon hazard analysis;
- Smoke and gas dispersion modelling;
- Emergency response analysis;
- SIL verification.

CLIENT **REFERENCES**

Bureau Veritas has recently provided dedicated safety support to Queensland Gas Company's Curtis Liquefied Natural Gas Project. They delivered safety studies for their SELECT and FEED phases, delivering the following services:

- Facilitated and prepared reports for HAZID, HAZOP, LOPA and SIL workshops;
- Completed QRAs on their upstream facilities;
- Completed fire and explosion assessments across the plant;
- Prepared a gap analysis to ensure compliance with relevant regulations for their Safety Case.

HSE Management

Bureau Veritas has expertise in the full range of HSE management support services, from the development of corporate HSE management systems, through to facility specific procedures and protocols. Our extensive work experience in this area also includes the development of:

- Safety Management Systems
- Risk management standards;
- Job Safety Analysis (JSA) templates
- Emergency response plans
- Safety Case performance standards

We have an intimate knowledge of HSE standards such as AS 4360, AS 4801/4, ISO 14001, ISO 9001, Australian Safety Case guidelines on Safety Management Systems and other US and European standards/ guidance such as HSG65, and have designed systems to comply with regulations. Bureau Veritas also have the capability and expertise to carry out incident investigations and HSE management system audits and verification.

CONTACT

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