

Achievement of results, associated with Good Business Practices and Ethics, in a cost effective manner is possible through the adoption and implementation of Risk Based Integrity/Asset Management systems. All organisations operate in a climate of risk. Minimising exposure to risk by adopting As Low As Reasonably Practicable (ALARP) targets (KPI's) is an essential feature of any modern successful enterprise.

The ability to give an accurate and current assessment of the condition and risk ranking related to materials requires an efficient and manageable system. This process involves engineering judgement and decisions that cannot always be readily quantified. Therefore, accurate assessment based on a proven methodology requires experience and good management.

WOOD GROUP INTEGRITY MANAGEMENT (WGIM) is an international company employing engineers and specialists who have experience and knowledge of risk management, particularly that which is associated with equipment and asset failure.

In-depth knowledge regarding:

- Performance testing and use of both metallic & non-metallic materials.
- Welding & joining.
- Corrosion and corrosion management.
- Availability studies and integrity management.

This enables our engineering team to evaluate and manage risk in a competent and cost effective way.

Risk studies undertaken by WGIM typically fall into one of the following categories:

- Quantitative.
- Semi quantitative.
- Qualitative.

These studies assess risks based on the likelihood and consequences of occurrence, and ensure risks are managed and monitored appropriately. This provides an operating strategy that enhances the safety levels of personnel and the environment, maintains asset value and company's public image, and minimises production losses.

The risk assessment process involves:

- Identifying all hazards.
- Qualifying hazards in terms of consequence and probability using event trees, historical data and onsite plant experience.
- Quantifying the hazard in terms of its risk and prioritising the risks where further action is required to minimise unacceptable risks.
- Taking into account intervention factors such as inspection, design, maintenance, management, policies, etc.
- Reviewing risks to ensure that all long and short-term risks are ALARP.
- Develop inspection and monitoring plans that will ensure that risks are correctly managed.



These processes must be auditable such that they can be reviewed and updated as new knowledge becomes available. As WGIM operates a DNV accredited ISO 9001 2000 Quality Management System, it is well placed to deliver the necessary documentation and quality control measures to develop, operate and audit a Risk Management System that operates in any one of the following business sectors:

- Production & Manufacturing – oil & gas exploration / production, mining, pulp & paper, chemical, refining, petrochemical, food / wine production, pharmaceutical, agriculture.
- Infrastructure – buildings, bridges, wharfs, gas / oil / water pipelines, sport stadiums, airports.
- Transport – aerospace, marine, road, rail.
- Communication – towers, electronic equipment.
- Utilities – electricity, water, gas, sewage.