



# Xodus TSR Division

## Managing technical safety, risk and reliability

The effective management of technical safety, risk and reliability is one of the first priorities in any oil and gas project.

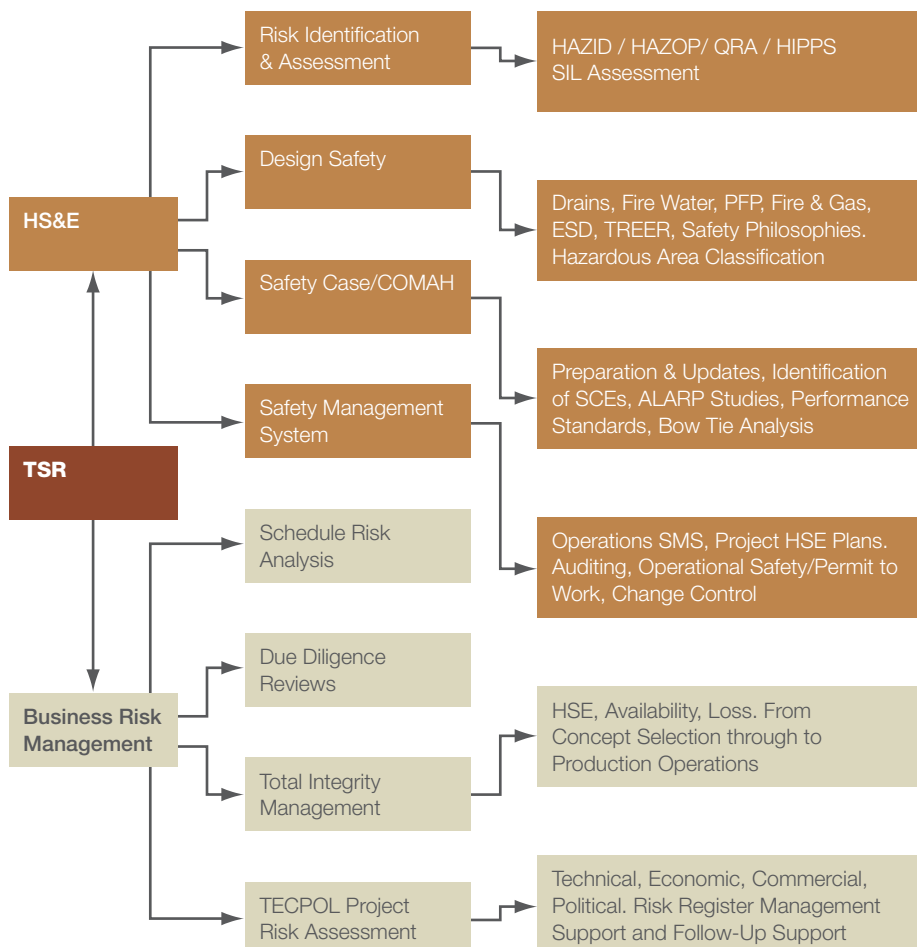
Production facilities are usually complex, and usually located in unique environments that are almost always hostile, with plenty of potential for safety breaches, negative environmental impact or loss-making downtime.

The ability to predict and then prevent or

mitigate undesirable events is probably the single most important factor in achieving business success, both in the oil and gas industry and in the energy sector as a whole.

The Xodus TSR Division works hand-in-hand with other Xodus Divisions to ensure that effective risk management is a key feature of every project, throughout the lifecycle of the asset. From initial concept through full-scale production to decommissioning, we cover every activity

associated with safety, risk and equipment reliability, from the preparation of individual studies through to the provision of dedicated, full-time support. Because our approach is multidisciplinary, and because we take an unbiased, independent view of our clients' needs, we challenge conventional thinking. We encourage our clients to approach project design from fresh perspectives and ensure pivotal decisions are based on a clear understanding of the integrity issues involved.



- Risk management systems, including HS&E management and planning, operational safety, staff resourcing, and permits and consents
- Risk register services, including HAZOP/HAZID analyses, HIPPS studies and SIL/LOPA assessments
- Safety Case services – from case preparation, critical element identification and performance standard development through to COMAH reports
- Formal safety assessments, from quantitative risk analysis through to ALARP studies
- Safety engineering services, including safety reviews, fire and gas systems, ESD systems and hazardous area classification
- Reliability engineering, from failure investigation and root cause analysis, FMECA, RAM studies and technical integrity audits through to risk-based inspection, maintenance and spares management.