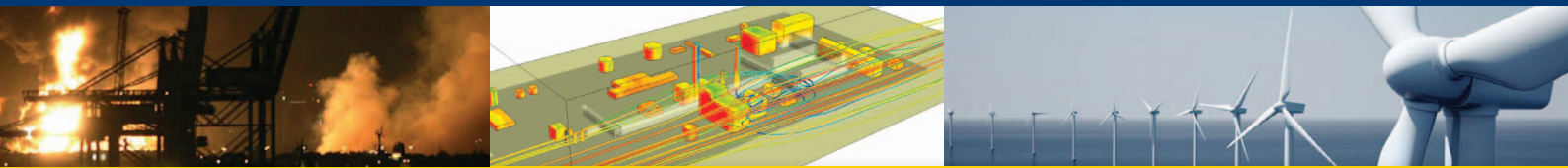




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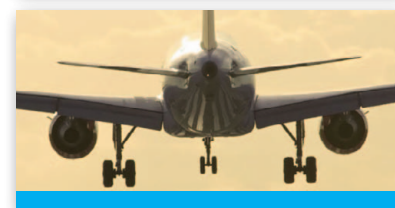
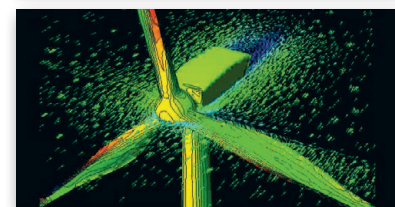
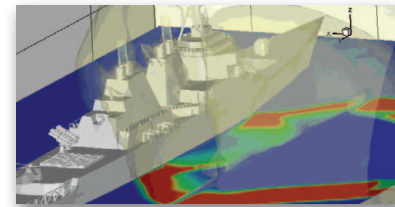


To manage risk, you must first understand your hazards and how to control them

MMI Engineering provides technical consulting and engineering services to enable effective risk management. We assist our clients in the analysis, mitigation and management of risks posed by natural and man-made hazards present in a range of industries including:

- Oil & Gas
- Petrochemical
- Nuclear
- Clean Energy
- Utilities & Infrastructure
- Government
- Security & Defence
- Aerospace
- Insurance

The effective management of risk, whether safety, environment or business related requires a sound analysis of hazards and their associated consequences. We provide solutions based on the sound application of engineering, science and technology in combination with experience in design, construction, operations and project management. Our staff come from a wide range of engineering and scientific disciplines including: structural, mechanical, civil, geotechnical, chemical and petroleum engineers who work alongside physicists, chemists and mathematicians.



Core Skills

Safety & Risk Management

- Enterprise Risk Management Systems
- Safety Case and COMAH Case development
- QRA and PSA
- Health, Safety and Environmental Auditing
- Performance Standards development
- Quantified Risk Assessment
- Probabilistic Fire and Blast Risk Assessment
- ALARP studies
- Fault Tree, Event Tree, FMEA, SIL, HAZOP, BowTie etc
- Fire and gas detection layouts and optimization studies
- Security Vulnerability Assessments

Major Hazards Engineering

- Fire and Explosion Hazard Derivation
- Smoke and Gas Dispersion
- Helideck studies
- CO₂ and Hydrogen gas hazard assessments
- Seismic Hazard Evaluation
- Blast protection assessment and design
- Seismic design
- Fire response analysis
- Fire protection systems, inspection and design
- Safety System Survivability Assessments and Audits

Engineering Services

- Structural and stress analysis and design
- Structural re-analysis and re-assessment

- Independent Peer Review
- Ultimate strength analysis
- Risk based structural integrity assurance
- Structural Health Monitoring
- Fatigue and fracture
- Non-linear finite element analysis
- Geotechnical and foundation engineering

Fluid Mechanics

- CFD analysis for process design
- Process equipment optimisation
- Conjugate heat transfer assessment
- Fire and Explosion Modelling
- Fluid network modelling
- Flow Assurance
- Fluid system design optimisation
- Process systems, fuel supply systems
- Fire-fighting systems design

Technical Communication

- Communication
- Hazard and Safety Awareness
- Multi-media development
- Process Safety Management
- Situational Awareness





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