



*Company Brochure*



*Supporting Our Clients Needs*

*Provider of Risk, Safety, Environmental and Reliability Services*



## Company Profile

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Monaco Engineering Solutions (MES) is an international consultancy group offering Risk, Safety, Environmental and Reliability Engineering Services.

## Our People

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MES presents a growing team of international consultants based across our office locations.

Our consultants are:

- Predominantly degree qualified and professionally accredited.
- Highly motivated to excel when presented with new challenges.
- Flexible and able to integrate within client environments.
- Carefully selected to each project assignment based on experience, skills and specific client requirements.

## Services

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## Risk Management

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- Fire and Explosion Risk Assessments
- Quantitative Risk Assessment (QRA)
- Dropped Objects Risk Analysis
- Blowout Risk and Subsea Release Risk Assessments
- Transportation Risk Assessment
- Emergency Systems Survivability Analysis (ESSA)
- Emergency Evacuation & Rescue Analysis (EERA)
- Risk Assessment to support ALARP Demonstration
- Temporary Refuge Impairment Risk
- Cost Benefit Analysis

## Safety Engineering

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- Study Facilitation (HAZOP, HAZID, LOPA, BOWTIE, ENVID, HRA)
- Fire Protection (Active/Passive) Design
- Firewater System Design
- Blowdown/Flare Studies
- Fire and Gas Mapping
- Hazardous Area Classification

*Supporting Our Clients Needs*

# Environmental Engineering

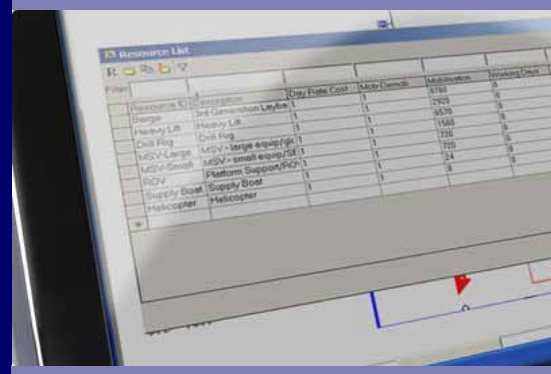
- Baseline Environmental Studies and Reports
- HSEIA and COMAH Reports
- Environmental engineering in Design Projects
- Environmental Impact Assessment / Environmental Risk Studies
- Legislative Compliance Reviews and Preparation of Registers



# Reliability Engineering

MES utilises an in-house reliability tool - *PLASMA* - which has been implemented for more than 15 years in the Oil & Gas Industry. The software is used to execute reliability studies:

- Reliability Availability Maintainability (RAM)
- Risk Based Inspection (RBI)
- Reliability Centered Maintenance (RCM)
- Safety Integrity Level (SIL) Assessments
- Failure Modes Effects and Criticality Analysis (FMECA)



The image shows a software interface with a table of data. The table has columns for 'Component', 'Failure Mode', 'Consequence', and 'Risk'. The data is organized into rows, with some rows highlighted in red and others in green. The interface also includes various navigation buttons and a search bar.

Component	Failure Mode	Consequence	Risk
Gas Turbine	Compressor Failure	Loss of Power	High
Generator	Excitation System Failure	Loss of Power	High
Transformer	Overheating	Loss of Power	High
Switchgear	Short Circuit	Loss of Power	High
Busbar	Overheating	Loss of Power	High
Cable	Insulation Failure	Loss of Power	High
Motor	Overheating	Loss of Power	High
Control System	Software Failure	Loss of Power	High
Relay	Malfunction	Loss of Power	High
Breaker	Failure to Operate	Loss of Power	High
Transformer	Overheating	Loss of Power	High
Switchgear	Short Circuit	Loss of Power	High
Busbar	Overheating	Loss of Power	High
Cable	Insulation Failure	Loss of Power	High
Motor	Overheating	Loss of Power	High
Control System	Software Failure	Loss of Power	High
Relay	Malfunction	Loss of Power	High
Breaker	Failure to Operate	Loss of Power	High



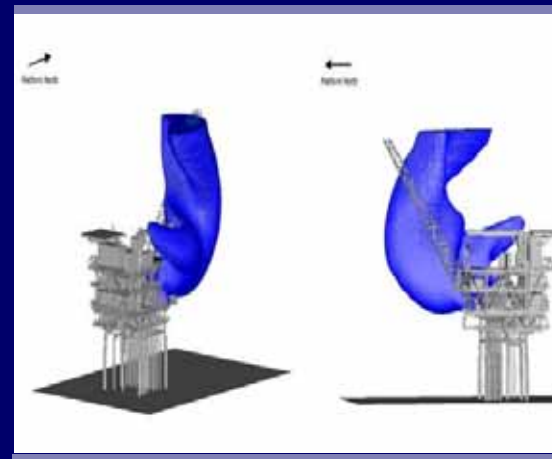
## Client Management Support

- Technical Authoring (Developing Safety Cases, COMAH Reports, HSEIA and Performance Standards)
- Technical Assurance (Design Verification, Audit and Review and acting as Client Engineers)

## External Services

MES provides “source and manage” service for specialist study requirements where these skills are not retained in-house. Support areas include:

- CFD for Gas Dispersion and Explosion Analysis
- Noise and Vibration Studies
- Occupational Hygiene Assessments



## Contact us

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We also have site offices in Aktau, Kazakhstan and Lagos, Nigeria

