Quantitative Risk Assessment (QRA)
A powerful decision tool for risk management

Summary
Risks must be identified in order to protect plant workers, the people in the surrounding area, the environment and the plant itself.

QRA is a structured approach to identifying and understanding the risks associated with hazardous activities such as the operation of a plant. The assessment starts by taking an inventory of potential hazards, their likelihood and consequences.

QRA provides valuable insights into the risk profile of the plant, identifying and ranking the areas where failures may result in harm to operators, members of the public, the environment and or the asset itself. QRA provides a basis for decision-making in the design and operation of the plant, and may also be required to legally show ‘fitness to operate’.

Bureau Veritas engineers use advanced technology via technical centres, which enables us to analyse problem situations and develop the appreciate solutions.

Benefits
- Supports the selection of the most appropriate design concept
- Provides a rational basis for monitoring risks and providing specific decision making guidance
- Helps identify targets for risk reduction measures
- Helps with design basis for fire and blast protection as well as emergency planning and training
- Assists in finding the most cost-effective ways to reduce risk
- Provides inputs to As Low As Reasonably Practicable (ALARP) demonstrations
- Identifies safety-critical procedures and equipment

Related Services
Process Safety Management
Hazard Identification Study
Hazard and Operability Study
Offshore Safety Case Management and Thorough Review
Offshore Decommissioning Services
Marine

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