

MARINE AND OFFSHORE

RISK-BASED INSPECTION PROGRAM

Our Risk-Based Program combines risk assessment services with risk management techniques for all inspection activities, including planning, data gathering, analysis and documentation. We help clients develop more effective inspection plans directed toward areas of highest risk in order to prevent undesirable events.

ABS Group's Risk-Based Inspection Program (RBI) is a risk assessment and risk management process that focuses on failure modes initiated by various material deterioration and/or degradation mechanisms that can be managed and controlled through equipment and structure inspection.

Objective

Our RBI program is designed to provide:

- Prevention of loss, casualty, fatality and/or environmental incident
- Assurance that the asset continues to be 'Fit for Service'
- Assist with maintenance management and lifecycle cost management
- Life Extension Criteria

Process

RBI is a process that uses risk techniques to focus on inspection efforts. Risk is defined as the product of the likelihood and consequence of an event. The likelihood side of the equation can be affected by inspection.

ABS Group's RBI Program uses risk to help define:

- Where to inspect
- When to inspect
- How to inspect

RBI is an ongoing and updateable process throughout the lifecycle of the facility.

Methodology

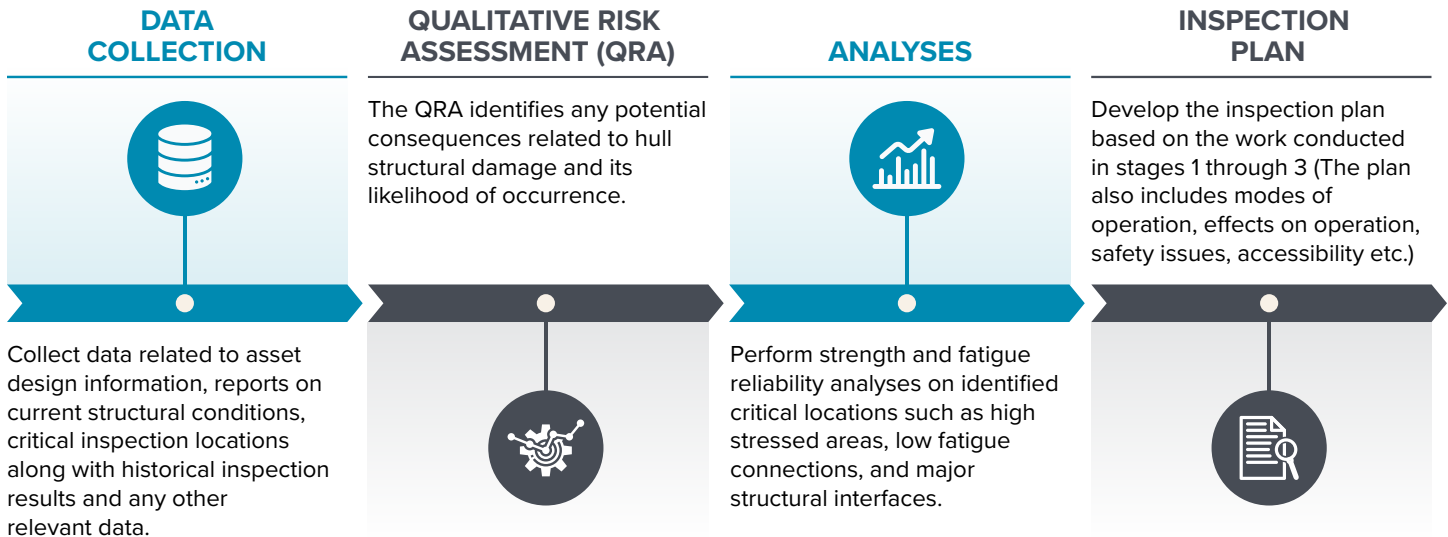
The methodology used in our RBI Program applies proven and recognized industry practices to provide a transparent, repeatable technical process:

- Hazard identification and assessment methodology
- Consequence modeling techniques and related assumptions
- Risk assessment techniques and risk evaluation criteria
- Inspection plan development based on risk analysis



Implementation

The RBI program implementation is based on a series of tasks to support the client's asset integrity program. The implementation includes four stages:



Benefits

- Improves risk reduction and associated exposure to loss (as risk is at the core of the developed scheme)
- Allows flexibility for inspection planning and execution (inspection is tailored to the asset needs, considering design and operation)
- Provides a demonstrable basis for the inspection plan
- Incorporates overall business requirements
- Provides better understanding of critical items
- Brings potential for more cost-effective operations and/or use of resources

About ABS Group

ABS Group of Companies, Inc. (www.abs-group.com), through its operating subsidiaries, provides data-driven risk and reliability solutions and technical services that help clients confirm the safety, integrity, quality and environmental efficiency of critical assets and operations. Headquartered in Spring, Texas, ABS Group operates with more than 1,000 professionals in over 20 countries serving the marine and offshore, oil, gas and chemical, government and industrial sectors. ABS Group is a subsidiary of ABS (www.eagle.org), one of the world's leading marine and offshore classification societies.