

Risk Based Inspection

More than just a software tool



ABB

Do you want to reduce maintenance cost?

Do you want to improve plant availability and safety?

ABB Engineering Services has, over many years, developed a Risk Based Inspection +© programme to provide an efficient and streamlined approach to RBI through close teamwork between ABB and the client.

ABB Engineering Services supplies a range of consulting services in manufacturing operations and engineering, including project implementation and management to customers in the chemical, petrochemical, oil & gas, pharmaceutical and consumer industries worldwide.

Capabilities

Our asset management team has a significant history of operational experience combining a broad range of professional skills, supported by a wealth of expertise with topics such as PSSR (Pressure Systems Safety Regulations, PUWER (Provision and Use of Work Equipment Regulations), and PER (Pressure Equipment Regulations).

Skills including:

- Inspection management
- Pressure equipment design
- Fitness for purpose assessments
- Critical defect analysis
- Materials engineering



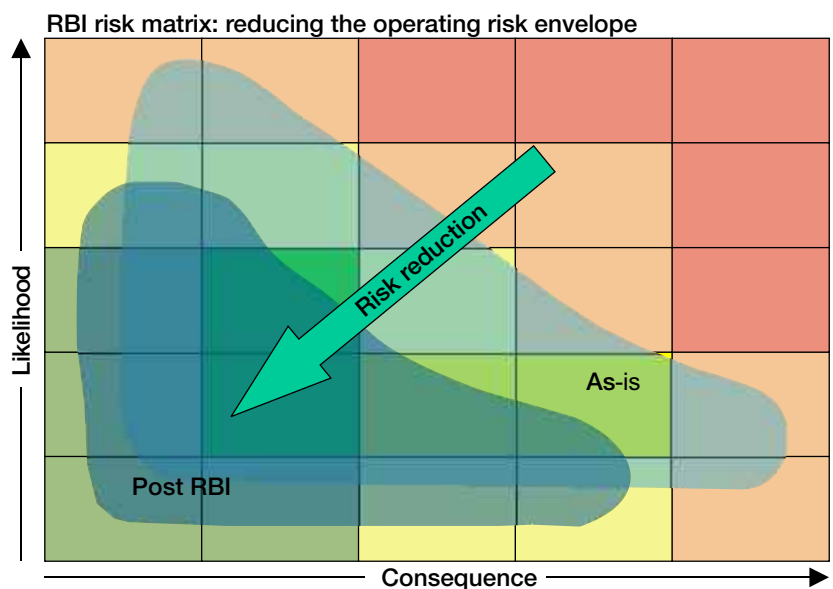
Our experience

The team delivers a wide range of services including:

- Auditing and gap analysis of client facilities and management systems against both legislative requirements and best practice for all technical disciplines
- Design & inspection services throughout the full lifecycle of pressure equipment
- Assessment of defects and fitness for purpose reviews for all pressure equipment
- Asset lifetime studies and development of asset life plans
- Reliability improvement projects

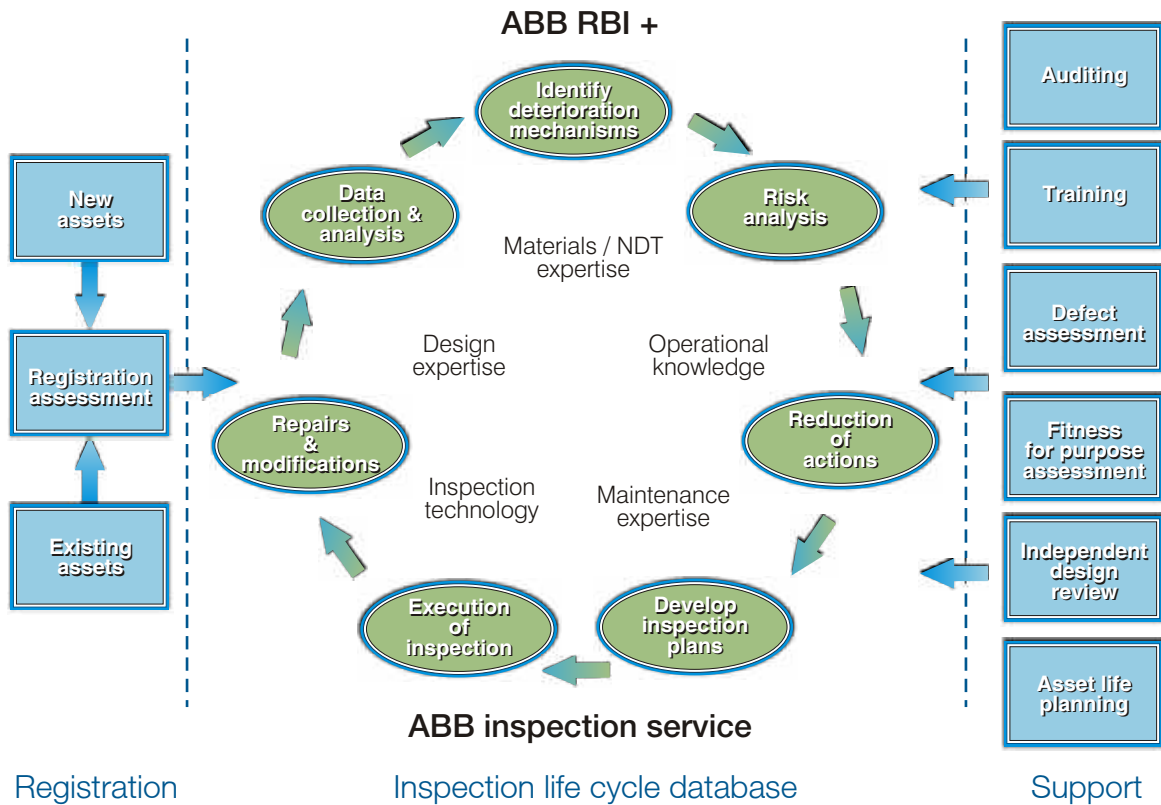


Our asset management team's unique skill and experience base can help you reduce your operating risk envelope through the application of our RBI+© programme to focus your inspections to reduce risk.



Risk Based Inspection

The approach we take to RBI is to provide a service through the full equipment lifecycle, from initial assessment for registration, provision of RBI reviews supported by RBI+© software, examination & reporting by our inspection service, and technical support from our asset management group.



Approach

Our approach concentrates on determining the What, Where, How and When to inspect:

- What - equipment to inspect, where failure would be unacceptable
- Where - to focus effort
- How - the right techniques to use
- When - optimise the examination interval

Benefits

We can help you achieve:

- Increased knowledge of the risk of operating your assets
- Significant reduction in the total cost of inspection
- Longer turnaround intervals, and reduced turnaround durations
- Improved equipment availability and reliability, helping you maximise on-stream time
- Increased confidence in equipment integrity
- Established path to regulatory approval

Our unique approach to RBI based on partnership will help you develop:

- A best practice approach to equipment integrity throughout the asset lifecycle
- Improved understanding within your team of the impact that they can have on equipment reliability



The services we offer

Asset management & Risk Based Inspection

- RBI+© software
- UKAS accredited inspection service
- Auditing & gap analysis PSSR, PUWER
- Preparation of focussed Schemes of Examination
- Pressure equipment specification & design
- Repair specification
- Independent design review
- Fitness for purpose assessment
- Critical defect analysis
- Finite Element Analysis (FEA)
- Materials engineering & consultancy
- Civil & structural inspection & consultancy
- Asset life studies & plans

Our capabilities include:

- Asset assurance
- Asset care
- Asset performance improvement
- Business process optimisation
- Capital project management and execution
- Energy and utilities
- Engineering design services
- Environment services and IPPC
- Manufacturing process optimisation
- Operational plant support
- Organisation and competency development
- Safety management
- Software solutions

ABB Engineering Services is part of ABB's Automation Technologies division serving customers in the chemicals, consumer, life sciences, manufacturing, metals, paper, petroleum and utility industries.

UK locations

Warrington
Teesside
Grimsby
Derby

International locations

Americas
Asia
Europe
Middle East



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