Risk Based Inspection
More than just a software tool
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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