

# Asset Integrity

The focussed inspection approach



**ABB**

## Are your inspections cost effective?

## Do you focus on areas of real risk and provide useful information?

**ABB Engineering Services provides an Inspection Service that has many years experience covering a wide range of assets. Our approach is to focus on areas of real risk and provide information that enables informed decisions to be made by our clients. The outcome is to improve the integrity of the assets while driving down costs.**

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.

Our accredited Asset Integrity team has a long track record of inspection which combined with our operating history and functional expertise gives a leading edge capability across all assets:

### Capabilities

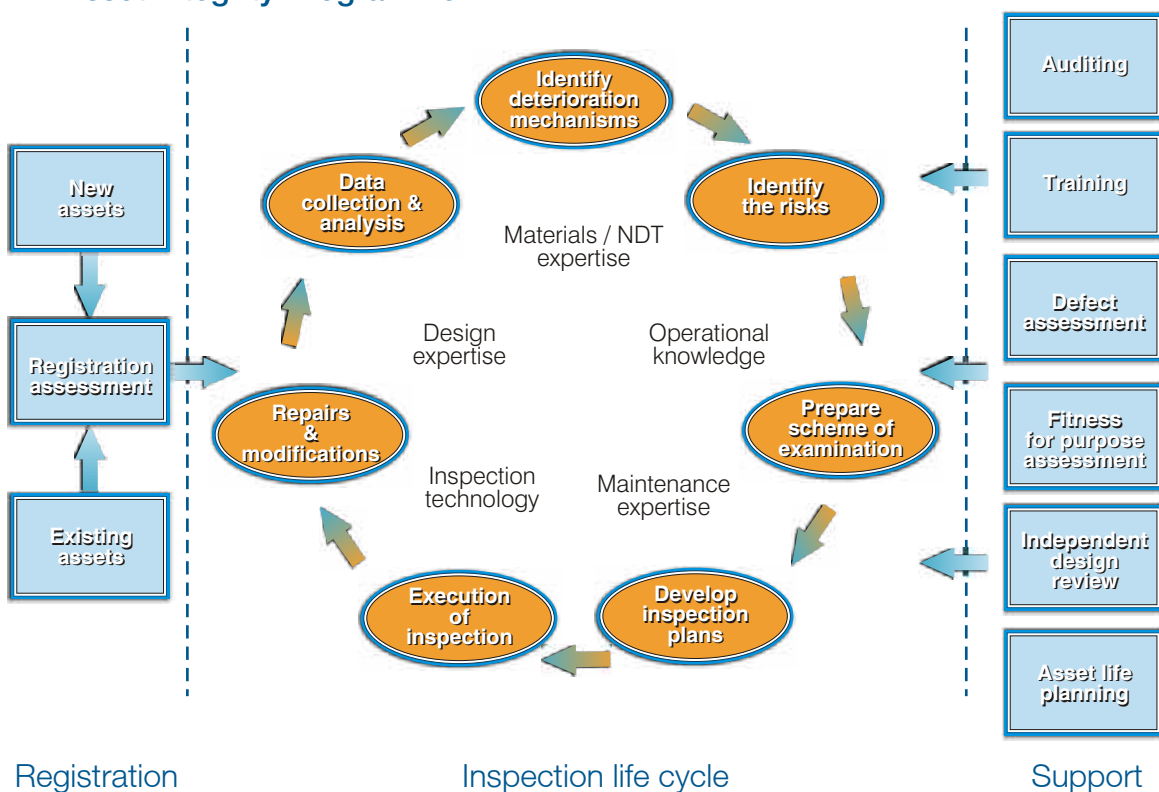
- Inspections and schemes of examination
- Fitness for service assessments
- Repair specifications
- Materials engineering
- Asset life study

### Assets

- Vessels, pipework
- Relief streams
- Tanks
- Pipebridges
- Structures, bunds, drains

The approach we take to asset integrity is to provide a service through the full asset life cycle, from initial assessment for registration, examinations and reporting. This is undertaken by our inspection service with technical support from our plant performance improvement group.

## ABB Asset Integrity Programme



# A unique approach

Examinations are based on the operational risks of the specific equipment and built on understanding how deterioration will occur and the best method of monitoring this deterioration. This ensures legal requirements are met while minimising cost and improving uptime.

**Schemes of Examination** focus on the areas of real risk identifying:

- What to inspect** - equipment where failure would be unacceptable
- Where to inspect** - specific areas that deterioration will be found
- How to inspect** - the particular technique required
- When to inspect** - optimise the frequency between examinations

**Inspection Reports** clearly identify any issues and provide valuable information on the condition of the equipment and actions that are required to maintain it fit for purpose. Photographs, sketches and Non-Destructive Examination results are recorded and assessed.

**Procedures and Guides** that ensure the legal and business requirements are met cost effectively and promote best practise, providing a robust system for the implementation of modifications, repairs and deferrals. Eliminating the requirement for Clients to maintain their own inspection procedures and guides.

**Information Management** of inspection reports, schemes of examination, repairs / modification, scheduling of examinations and defect tracking. Integrated web accessed databases that provide a complete Asset Management tool.

## Benefits

- Inspection that provides added value by focussing on real risk
- One stop shop for all inspection requirements
- Proactive elimination of routine low value inspections
- A team approach, ensuring the integrity of the assets
- Cost effective compliance with legislation
- Improved equipment reliability



# The services we offer

## Asset Integrity

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

### International locations

Americas  
Asia  
Europe  
Middle East



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