Inspection services

Delivering value, cost effective and focussed on real risks
Inspection

Our inspection reports provide information to enable our clients to manage the deterioration and integrity of their statutory and non-statutory equipment in a focused and cost-effective way.

By focusing on areas of real risk, ABB can optimise the scope of the examinations to improve the integrity of the assets whilst driving down the total cost of inspection. Our inspection engineers get to know your plant and people and ensure that flexibility in the regulations is used to set appropriate intervals between examinations.

ABB provides technical and engineering services to improve performance in the areas of compliance, operations and engineering to customers in the chemical, petrochemical, oil & gas, power, pharmaceuticals, metals and consumer industries worldwide. Our accredited integrity management service 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
- Inspection management
- Inspections and schemes of examination
- Fitness for service assessments
- Repair specifications
- Materials engineering and corrosion
- Risk Based Inspection (RBI)
- RBI revalidation
- RBI+© software
- Asset life studies
- Anomaly management
- Inspection software
- Training

“The service provided has been excellent, 10/10.”

Plant Engineer, INEOS

Our experience
We have vast experience of managing the inspections of pressure systems and equipment within many process industry sectors.

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

The approach we take to asset integrity is to provide a service through the full asset life cycle, from initial assessment for registration to examinations and reporting. This is undertaken by our inspection service with technical support from experienced functional specialists. Through our experiences of taking on new inspection clients we have an approach to transition that allows a rapid and smooth transfer of services to ABB.
Our approach
Examinations are based on the operational risks of the specific equipment, built on an understanding of how deterioration will occur and the best method of monitoring this deterioration. This ensures legal requirements are met while minimising costs and improving uptime.

Schemes of examination focus on the areas of real risk, identifying:

- What to inspect - i.e. where failure is unacceptable
- Where to inspect - specific areas where deterioration could occur
- How to inspect - the particular technique required
- When to inspect - optimise the frequency between examinations

Inspection reports
These clearly identify any issues and provide valuable information on the condition of the equipment, recommendations and actions that will maintain it fit for purpose. Photographs, sketches and non-destructive examination results are recorded and assessed.

Procedures and guides
These ensure the legal and business requirements are met cost effectively and promote best practice, providing a robust system for the implementation of modifications, repairs and deferments. This eliminates the requirement for clients to maintain their own inspection procedures and guides.

Information management
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
- Improved integrity and reduced costs by focusing on areas of real risk
- Cost and time efficiencies gained by using supporting services for all asset integrity issues
- Elimination of low value inspections and associated inspection preparation costs
- Improved asset integrity through a team based approach
- Cost effective compliance with legislation and business requirements
- Improved equipment reliability and availability

“The transition to ABB was undertaken in a seamless manner. Our inspection service has since significantly improved with better budgetary control, improved standard of inspection, reporting and excellent team working leading to an improvement in the integrity of our asset.”

Engineering Manager, BP