Operational Plant Support
The engineering expertise you need... As you need it.
Want to improve plant performance, but don't know where to start?

Tired of technical solutions that look fine on paper, but can't be implemented?

Do you suffer from recurring equipment problems?

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.

Managers and engineers responsible for maintaining and assuring the integrity of process plants have to find a balance between engineering costs and the risks of poor reliability or safety & environmental incidents. The combination of ever-tighter regulations, the pressure to reduce costs, the loss of engineering skills & experience and the drive for greater asset productivity makes this balance harder to achieve.

A modern engineer needs to:
- Understand risk in an operating environment
- Apply sound engineering judgement within a complex legal framework
- Deliver solutions across the full range of engineering functional areas
- Know where to access supporting knowledge and experience.

Our capabilities:
- Multi functional teams of specialist engineers
- Thousands of years of combined operating and functional knowledge
- Operating experience with chemical, speciality & fine chemical, petrochemical, oil & gas and pharmaceutical facilities
- International problem solving experience

Functional depth:
- Specialist and standard engineering functions - pressure systems (eg vessels, tanks, heat exchangers, pipe specifications and stressing), rotating equipment, fired equipment, materials, civil, structural, process, electrical, instrumentation and advanced control
- Legislative and codal expertise - we contribute to many international standards and produce guidance for national regulators
- Process plant insight - we understand plant systems and their interactions to see more than just individual items of equipment

The solutions we develop are:
- Practical - they can be implemented in operational environments
- Fit for purpose - our risk based approach fits the solution to your business needs
- Based on tackling the root causes - so problems do not recur
- Based on experienced engineering judgement - we work with engineering codes, but are also able to resolve issues arising outside of the codes
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How your plant / business can benefit

Fitness for services assessments
Repair / modification specifications
Managing equipment repair / modifications
Training

1) Proactive incremental improvements in plant performance

In this case we would often provide technical advice, based on tackling similar issues previously:

- Carry out assessments or audits to identify issues
- Assess a proposed design for new or modified equipment to ensure it will meet requirements
- Specify new equipment, or re-rate equipment, as part of a plant modification

2) Solving specific equipment problems

Whether the problem is a breakdown or a failure / deterioration in condition, we start by understanding what has happened and why. We then move onto the solution through:

- Assessment to prove that the item can continue in service for a defined period
- Specifying repairs or modifications
- Support in carrying out the repair or modification; finding suppliers, reviewing job methods, inspecting their work etc.
- Training for operating and maintenance teams to prevent similar problems occurring in the future

Customer benefits

Our capabilities and approach offer you:

- Cost effective solutions - efficiently developed. We often avoid the need for costly repairs or unnecessary replacements
- Increased reliability - our solutions help to prevent problems recurring
- Confidence - our customers and their regulators have confidence in our solutions
- Time savings - we know the implications of plant downtime and unavailable equipment. In a breakdown situation we will help return the equipment into a safe operating condition as quickly as possible
- Minimum disruption - our flexible approach suits an operating environment
Recent services we have provided

**Operational Plant Support:**
- Failure investigation
- Problem solving
- Breakdown support
- Fitness for services assessments
- Repair specifications
- Managing equipment repairs / mods
- Equipment Specification preparation
- Training
- Specialist advice
- Design validation
- Equipment and system re-rating
- Equipment / systems assessments

**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
- Validation services

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.