Although steam systems have been widely used throughout industry for 150 years, problems with boiler plant integrity remain a cause of losses and disruption for many owners. Increasingly complex statutory demands and continuous pressure on operational costs can leave owners unsure of the current and future life of their boiler plants.

Our approach
ABB provides two levels of response to boiler care concerns:

The health check
The ABB health check provides a review of a boiler plant to identify any current concerns or issues that may cause problems in the future. The review addresses all aspects of the boiler plant operation and maintenance. The health check report identifies areas of best practice, any actions required to improve boiler reliability and integrity and how to focus further work if major problems are identified.

The technical investigation
The ABB technical investigation has been developed to address known problems on a boiler plant. An integrated multidisciplinary approach is used to evaluate the root causes and develop solutions. Each technical investigation is customised to address the owner’s concerns.

The method
For a health check or a technical investigation ABB employs an integrated multi-disciplinary approach covering:

- Operation
- Maintenance
- Safety
- Water treatment
- Design
- Materials
- Inspection
- Combustion and fuel handling
- Controls and burner management systems
- Boiler ancillaries
- Steam system integration

Benefits
- Assurance of regulatory compliance and best practice
- Identification of future issues
- Solutions to persisting problems
- Enhanced reliability
- Risk reduction
- Operation and maintenance cost reductions
Why ABB?
ABB has a team of specialist engineers covering all aspects of boiler plant integrity - fired equipment specialists, metallurgists, process engineers, water treatment consultants, stress analysts, inspectors and control engineers. Collectively they have addressed and resolved many operational and reliability problems on all types of boilers from fire-tube units, through water-tube, special waste heat packages and HRSG’s to power utility boilers.

As specialists with a strong operational background ABB can offer advice and solutions to plant owners that are independent of the equipment suppliers, tailor-made to the plant’s needs and reflect ABB’s widely recognised experience in asset management.