BoilerDoc is a detailed scientific study for assessing the existing condition & remaining life of old boiler / heater & hence confirming its safe operating life. It is also a Life Extension Program of a pressure vessel / equipment as it follows a scientific methodology to identify any flaws in it & suggesting the preventive & remedial action for correcting the same.
Scope of activity

- Condition Assessment - Determine the existing condition of pressure parts by various tests.
- Remaining Life Analysis - Interpretation of various tests predicting future safety hazards, damage assessment & Projecting useful remaining life of the equipment.
- Recommendations - Suggestions for Repairs/revamp/replacement & redesign for safe operation of equipments as well as for efficiency enhancement.
- Detailed Report & Certification.

Potential failure

- Economizer tube leakage
- Pressure vessel bursting
- Tube bank & pressure part failure
- Steam header bursting
- Tube failure due to overheating
- Thermal cycling
- Corrosion
- Fatigue Failure
- Furnace Failure

Study Methodology

- Visual Examination.
- Dimensional Measurements.
- Destructive & Non Destructive Tests.
- Metallurgical Tests.
- Review of operational parameters.
- Review of Water treatment records.
- Final assessment.
- Conclusions.
- Recommendations & Certification

Benefits

- BoilerDoc extends the safe life of unit & gives confidence to the user for safe usage of boilers.
- Improves the overall efficiency of the boiler.
- Refreshes & renovates the boiler to ensure minimum interruption to process.
- Develops program for planned replacement of boiler parts & minimize production loss.
- Certifies the life of equipment for CDM benefits.

Why Thermax?

- Qualified & Competent team driven by competent and experienced Metallurgist with vast exposure to Indian/International Boiler & Heater field
- International standard metallurgical testing tools for NDT techniques
- Certified Level 2/3 technicians/Inspectors to carry out/supervise NDT Tests
- Expertise in Water treatments
- ISO 9001-2004 Certified Organization, ASME Stamping
- HSE ISO 14001/OHSAS 18001 Certification, TUV/SGS Certified

Life Extension program is NOT a One Time activity. It is on-going Preventive maintenance for obtaining peak performance of equipment