



BABCOCK POWER SERVICES INC.

RILEY POWER INC.

Boiler Evaluation Services Reliable and Accurate Boiler Inspections and Condition Assessments

OVERVIEW

The Babcock Power Services Group (BPSG), offers complete Boiler Evaluation Services utilizing the combined resources of two outstanding, experienced companies: Riley Power Inc. (RPI) and Babcock Power Services Inc. (BPSI). RPI is an OEM that has been designing, building and installing steam generators and fuel firing systems for over 90 years. Babcock Power Services Inc. specializes in after market services associated primarily with non-RPI units.

BPSG provides inspections, testing, non-destructive examination (NDE), assessment and metallurgical services. The combined experience and engineering capabilities of these two companies includes boiler design, auxiliaries, instrumentation and controls, fuel firing systems, and stress analysis complemented with qualified field service personnel.

For over 20 years, BPSG Boiler Evaluation Services have been performing inspections and condition assessments on existing equipment, regardless of the original manufacturer.

BPSG was performing inspections and assessments long before the term "life extension" became an industry standard. Today we continue to offer our served industries with a comprehensive evaluation program, second to none.

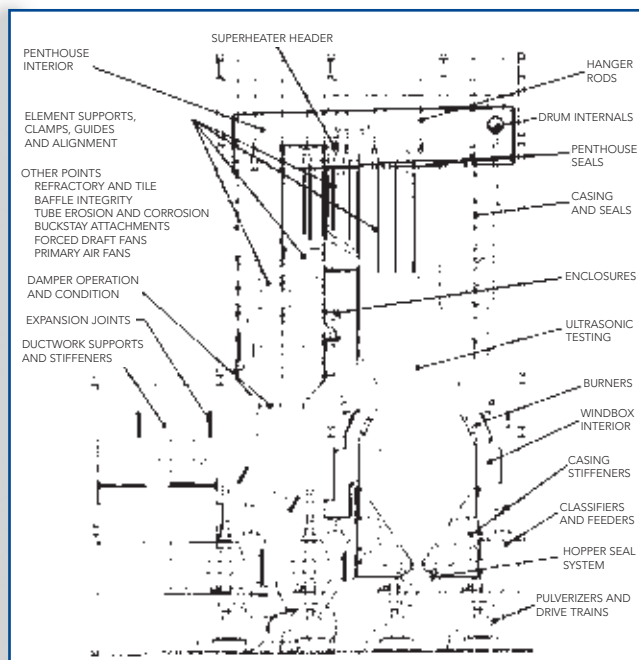
FEATURES / BENEFITS

Reliable and accurate assessment of your boiler components

- Determine the current condition of your boiler, pressure part components and/or associated auxiliaries.
- Results can be used for planning scheduled outages and to avoid future forced outages.
- Better control over operating and maintenance budgets.

Assessment program can be focused to meet specific objectives

- Customized inspection and assessment programs.
- Determine the cause of a recent failure.
- Cost justification to warrant the expense for a planned unit maintenance activity and/or modification.
- Identify problem areas and make recommendations to remedy.





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5 NEPONSET STREET
P.O. BOX 15040
WORCESTER, MA 01615-0040
TEL 508-852-7100 • FAX 508-852-7548
FOR REPLACEMENT PARTS • 800-541-3843

www.babcockpower.com

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- Record furnace and convective pass tube thicknesses – use to track tube wastage.

Detailed inspection report provided

- Meeting is held with plant personnel prior to inspection team's departure.
 - Review findings.
 - Leave a copy of the team's field notes – advance information to assist plant to implement immediate or short-term repairs, as required.

- Formal, final report issued.
 - Contains findings, conclusions and recommendations.
 - Includes colored photographs, sketches, and marked drawings to depict clearly the "as found" condition.
 - Conclusions and recommendations address metallurgical and testing results, component assessment, and future actions.

CAPABILITIES	
Non-destructive testing Ultrasonic thickness testing (UT) Ultrasonic flaw detection Wet fluorescent magnetic particle testing (WFMT) Dye penetrant testing (PT) Remote field electromagnetic testing (RFET) Replication metallography Hardness testing Flow accelerated corrosion (FAC) examination	Destructive testing Tube sample analysis Deposit load analysis ID/OD scale & deposit chemistry analysis Failure analysis Erosion, corrosion, fatigue & stress rupture (creep)
Visual inspection/analysis Visual inspection Internal inspections Fiberoptics Videoimagescope Video recording	Remaining life assessment Tubes Headers Components
Condition assessment programs Boiler assessment Header and/or tube nipple cracking Tube metal temperature assessment Tube wastage rates High energy piping assessment Circumferential weld inspection Longitudinal weld inspection Support system evaluation	Metallurgy capabilities Tube sample analysis Hardness (macro & micro) Failure analysis (root cause) Replication metallography Chemical analysis Alloy analysis Life assessment Materials selection Corrosion analysis Deposit loading Microstructure evaluation



CONDITION ASSESSMENT & SURVEY



FIBEROPTIC IMAGING USED FOR INTERNAL INSPECTIONS