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Babcock & Wilcox

Plant Component Chart for Condition Assessment Services

Unique or Patented B&W Services	High Temp. Headers	High Temp. Piping	Superheater & Reheater Tubes	Low Temp. Headers	Furnace Wall Tubes	Tubular Air Heaters	Convection Pass Tubes	Economizer Tubes	Downcomers	Drum	Valve
Hone & Glow® locates header ligament cracks	●										
NOTIS® evaluates superheater tube life			●								
FHyNES® detects internal furnace tube damage				●							
The Acoustic Ranger® locates holes and pluggage in air heater tubes					●						
FST-GAGE® EMAT for tube thickness		●		●		●	●				
Header/Piping remaining life analysis	●	●									
Leak-Before-Break Analysis PCFAD® Software	●	●	●						●	●	
Support Load Analysis	●	●									
Stress/Strain Measurement	●	●									
Valve Leak Detection											●

Standard B&W Testing and Sampling	High Temp. Headers	High Temp. Piping	Superheater & Reheater Tubes	Attemperators	Low Temp. Headers	Furnace Wall Tubes	Convection Pass Tubes	Economizer Tubes	Downcomers	Drum	Deaerators
Sample Analysis			●			●	●	●			
Cycling Analysis T/C data acquisition	●	●			●	●				●	
Dye Penetrant Surface Tests (PT)	●	●	●	●	●	●			●	●	●
Magnetic Particle Surface Tests (MT)	●	●			●				●	●	●
Material Verification	●	●	●								
Replication Analysis Surface Metallography	●	●			●				●	●	
Remote Visual Inspection of Inside Surface	●	●	●	●	●	●	●	●	●	●	
Ultrasonic Thickness Testing (UTT)	●	●	●		●	●	●	●	●	●	●
Ultrasonic Testing (UT) Shearwave for flaw detection (EPRI and/or ASME)	●	●			●				●	●	●
UT Flaw Sizing (EPRI and/or ASME Section V)	●	●			●				●	●	●



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B&W Field Support Expertise

- Trained and experienced service engineers
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 - Boiler structural
 - Air heaters
 - Pulverizers
 - Scrubbers
 - Water chemistry and chemical cleaning
- Metallurgists
- On-site project management
- Condition assessment specialists