

HRSG Services

Heat Recovery Steam Generator

Background



Rapid starts, load following and cycling lead to damage and wear in heat recovery steam generators (HRSG). Structural Integrity's experts can help you solve your next HRSG problem.

Problem Solving & Root Cause Analysis

Vibration, flow dynamics, large thermal expansions, and duct insulation deficiencies will create pre-mature failures, forced shutdowns and loss of efficiency. Structural Integrity's HRSG staff can identify root causes and recommend solutions using state of the art metallurgical, FEA and CFD tools.



Among the problems successfully resolved by Structural Integrity staff are:

- Superheater and Reheater tube rupture
- Economizer tube fatigue failure
- Attemperator controls
- Piping expansion damage
- Weld cracks in alloy material
- Salvage and restoration of damaged equipment
- Header end plate failure

Get Out of The Patch and Repair Rut

Structural Integrity's problem solving will help you to identify the most probable causes so that effective corrective actions can be applied.

Increase Revenue & Reduce Maintenance Costs

By first finding the root cause, the optimum solution can be designed. Avoid the repetitious trial and error approach.

HRSG Focused Services

- HRSG Center for Excellence
- Water chemistry studies and evaluations
- P91 hardness testing; assessment of production damage
- Creep evaluation of small samples from in-service equipment
- Failure analysis
- Creep-Fatigue Pro Life Monitoring System
- Duct burner flow modeling
- Tube vibration
- Attemperators
- Transient thermal and stress analysis
- Finite element analysis
- Economizer fatigue
- Superheater/reheater tube ruptures
- Duct insulation and liner system problems
- Welding process development
- Field technical support
- Full range of NDE capabilities
- P91 evaluations
- HRSG inspections
- Inlet duct CFD analysis
- Vibration monitoring and analysis
- Design Life Analysis; Creep and fatigue evaluations
- High temperature, in-service strain monitoring



For more information contact:
Barry Dooley, Phone: (704) 502-5081
Email: bdooley@structint.com

