

SUCCESS STORIES

TURNKEY RETROFIT: OREGON

FORCED CIRCULATION, VERTICAL GAS FLOW, VINTAGE 1970S

PROJECT OVERVIEW

HRSG

- + No. of Units: 6
- + Type: Forced circulation, vertical gas flow, vintage 1970s

VOGT POWER SOLUTION

- + Design Goal: 21,000 lb/hr steam flow increase for each unit
- + Actual total energy output after the retrofit: 3.4% higher than the guaranteed total energy output
- + Actual gas side pressure drop: 2.9" wc. below the guaranteed level
- + State-of-the-art, all-welded replacement parts

PERFORMANCE RESULTS

- + Exceeded performance guarantee points
- + Project completion on schedule
- + Vertical gas flow (forced circulation) HRSG retrofit
- + 21,000 lb/hr increase in steam flow per unit



AFTERMARKET PRODUCTS

- + HRSG spare parts
- Access doors
- Complete modules
- Bare and finned tubes
- Headers
- Steam drums
- Heat exchangers
- Valves/instruments
- Control systems
- Diverter valves/dampers
- Burner management systems
- Environmental controls (CO/NO_x systems)
- **◆** Freeze protection
- Inspection services
- Computational Fluid Dynamics (CFD) analysis capabilities
- Performance testing
- + Casing seals
- Casing and insulation
- + Expansion joints
- Pressure vessels
- Feedwater heaters
- Rolled cylinders
- Deaerators
- + Stacks
- Return On Investment (ROI) analysis
- **+** Thermal studies
- Pipe stress

