

Air Heaters, Economizers, and Generating Banks

Improving heat transfer throughout the powerhouse equipment goes a long way to improving the efficiency of the mill. Maximizing feedwater and air heater temperatures takes heat you've paid for and puts it back in the boiler instead of up the stack, so upgrades have excellent return on investment.

Jansen engineers and builds heat transfer equipment such as tubular air heaters, economizers, and generator banks for increased performance. We hold an ASME Boiler and Pressure Vessel Code Section I "S" stamp for the design of power and recovery boilers and the NBIC "R" stamp for the design of repairs or alterations of boilers, pressure vessels, and other pressure-retaining items.

Major changes to generator banks are typically restricted due to existing space and the water/steam input limitations. But gen bank failure mechanisms can be identified with Ultrasonic Flow Metering (UFM) and modifications can be made to limit or eliminate these effects.

Areas of Evaluation and Design

- Initial feasibility study and quantification of payback potential.
- Benchmark performance testing.
- Evaluation of impact on boiler performance (steam flow and temperature).
- Analysis of heating surface requirements.
- Feedwater piping.
- Sootblowers and piping.
- Process design engineering.
- Specifications for fabrication and construction.
- Structural implications, hoppers, and breeching.
- Installation drawings.
- Engineering, Procurement, and Construction (EPC) scope of supply.
- Construction observation and startup services.



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