

Fisher's Solution Improves Soot Blower Valve Reliability



Application & Pain

- **Who:**
 - Midwest Electric Power Producer
 - 1800MW, Coal Fired, Baseload Plant
- **Soot Blower Valve:**
 - Controls the intermediate pressure steam header pressure and flow rates to downstream soot blowers
- **Challenges:**
 - Packing and Seat Leakage,
 - Noise, Vibration, Stem Failures

Emerson Solution

- **NPS 1 ½ Fisher Design HPS**
- **WhisperIII-A3 Trim Technology**
 - Minimizes jet interaction,
 - Reduces noise and vibration
- **Plug Stem Design Enhancements**
 - Increased reliability through oversized & hardened stem
 - Enhanced strength plug/stem connection
- **ANSI CLV Shutoff Prevents Steam Loss**
 - Prevents formation of condensate in the steam line
 - Protects the downstream equipment, and catalyst beds

Emerson Success Tactics

- Trusted Advisor Relationship with Customer
- Leverage Quickship for FAST Delivery
 - Quick response to unplanned outage
 - Met future outage deadline
- Continuous engagement from pursuit through installation

Results

- **Improved Steam System Operation**
 - Optimized catalyst life and reduced plant heat rate
- **Problematic Valve Removed from Service**
 - Reduced maintenance costs
 - Increased system reliability
- **Improved Plant Safety**
 - Packing steam leaks eliminated
 - Improved cycle life and valve reliability