

PRECISION PARTS RESTORED. PERFORMANCE RECOVERED.

How one plant reclaimed efficiency after a critical boiler feedwater valve repair went wrong. When a power plant restarts after an outage, every minute matters. Operators depend on critical valves to respond with absolute precision to keep steam production stable, safeguarding equipment, and preventing costly delays.

After a valve service provider repaired a triple element boiler feedwater valve, the operators of a Carolinas based power plant immediately knew something wasn't right during startup. The valve no longer behaved as designed and control was unstable. The valve was severely leaking. Start-up dragged. Performance suffered and the impact was real. Operators were forced to manually compensate, leadership had to manage schedule slip, and the entire facility had to absorb the financial weight of reduced efficiency.

A FOUR-DAY DELAY AND SIX MONTHS OF LOST EFFICIENCY

RETURNING TO OEM INTEGRITY

During the next scheduled outage, R.E. Mason performed a root cause analysis, resulting in finding that the repaired parts were not machined to the proper OEM specifications. R.E. Mason then provided the customer a full restoration plan:

- Replacement of improperly machined parts with **new OEM valve parts**
- Precise reassembly and calibration back to **original Emerson design specifications**
- Verification of control performance across the valve's full operating range

When the plant restarted, the results were immediate and measurable.



EFFICIENCY RECOVERED AND CONFIDENCE RESTORED

With OEM parts restored and control characteristics brought back into alignment:

- The valve once again operated **as originally designed**
- Feedwater control returned to stable, predictable performance
- Plant efficiency losses were eliminated
- Operators reported renewed trust in a critical piece of equipment

What had been an operational drag became a powerful reminder of the value of OEM parts and partnership with the Emerson Impact Partner network.

Ready to protect your plant's performance?

What valve reliability challenge can R.E. Mason help you solve next?