



## STEAM VALVE REPAIR & UPGRADE WESTINGHOUSE AIB 9402 THROTTLE VALVE UPGRADE

Orbital Energy Services provides repairs and upgrades for your valves and valve components. We provide reverse engineering and precision replacement part manufacturing of valve components for virtually all makes and types of steam turbine valves. We also maintain one of the most extensive valve repair equipment inventories and employ the best trained and most experienced personnel in the industry.

### Throttle Valve Modification Advantages:

#### **PINNED-IN SEATS**

Standard Westinghouse TV seats are shrunk fit and then seal welded in position. This process can cause stress fatigue and cracking may occur resulting in seat movement, creating a path for steam leakage or improper valve seating. The pinned-in seat upgrade eliminates seat movement and steam leakage.

#### **RUGGEDIZED STEM**

Replacing the standard style pilot valve spring assembly with a ruggedized Inconel 901 stem offers the advantage of no longer having to perform periodic spring adjustments. This, coupled with our stellite bushing upgrade, eliminates the need for additional disassembly and cleaning between planned outages due to blue blush and scaling.

#### **SPIRAL WOUND GASKET**

Typical TV bonnet-to-body gasket seating areas are metal-to-metal, requiring close tolerances to effectively seal. This modification allows the seating area to accept a spiral wound gasket, eliminating the need to restore close tolerances resulting in faster reassembly of the valve.

Orbital Energy Services repairs Main Steam Stop Valves, Governor/Control Valves, Throttle Valves, Intercept Valves, Ventilation Valves, Blowdown Valves, Equalizer Valves, and Combination Valves manufactured by all major OEM's.

