

## Challenge

### Background

A fossil power plant was having an issue sealing their Desuperheater Spray Valve. Previous packing sets would leak at start-up. Mechanics would tighten until the leak stopped and then the actuator would “hunt” to overcome increased torque.

### Goal

Increase valve reliability and minimize stem friction.



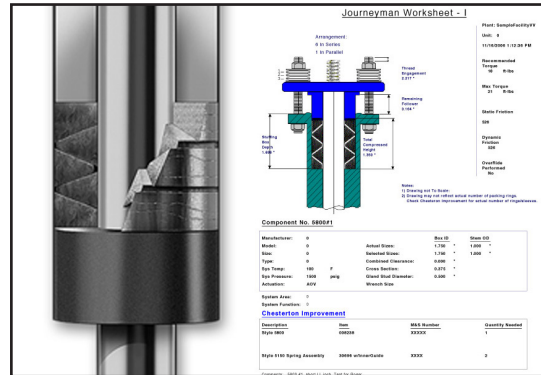
Fossil Power Plant was having issues with its linear control valve.

## Solution

### Product

Ran the process requirements through Chesterton’s valve management software; **Chesterton’s 5800 Packing Set** and Live Loading were recommended.

The **Chesterton 5800’s** wedge-shaped design lowers packing friction compared to typical graphite packing. This design, combined with Chesterton Live Loading technology, will prevent over-tightening of gland bolts, allowing the actuator to function properly and minimize “hunting” by the valve.



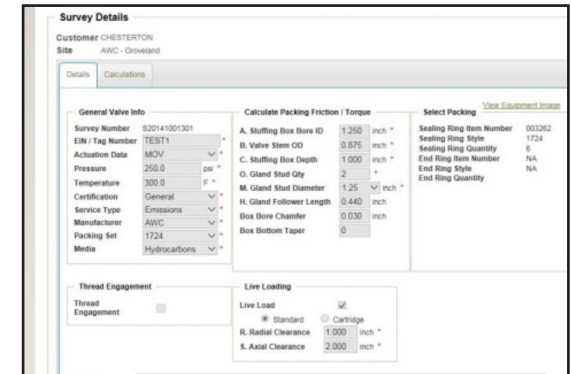
Process requirements showed the packing set required torque.

## Results

- The installed Chesterton packing solution improved the valve performance by reducing the stem friction and eliminating start-up leakage
- Predictable friction torques

### The Valve Management Tool is able to:

- Provide an engineered solution
- Maintain valve data and improvements
- Provide documentation and installation drawing



Chesterton Valve Management Tool.