

## Challenge

### Goal

Provide effective sealing for a critical valve (Condenser Block Valve), which was leaking in the containment area.

- This is a radiated space that is highly critical for plant operation and can cause plant shut downs costing millions of dollars per day
- This is also the “hot” side of the plant where personnel must restrict their time exposure to radiation



In nuclear power plants, the containment area is critical for safety.

## Solution

### Product

Working with the plant engineers, Chesterton supplied its **Valve Sealing System (VSS)** to solve this problem quickly:

- Measured and installed the VSS in 18 hours
- The packing set consisted of 4 rings of **Chesterton 5300 GTPI**, a die-formed inhibited graphite packing, and 2 end rings of **Style ONE™**
- The **Chesterton 5100** carbon bushing was cut to length during installation

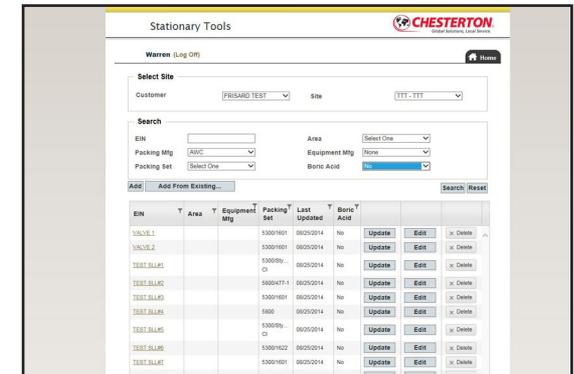


Chesterton 5300 GTPI and 5100 Carbon Bushing.

## Results

### Time & Cost Efficiencies; Renewed Safety

- Customer was able to install and return to service on-time — saving thousands in productivity!
- Chesterton packing system is leak-free. In the containment area, the valve will not be operated for 18 months unless an issue arises. (These valves only function when there is an issue)
- Employee safety was maintained



Journeyman's worksheet from Chesterton Valve Management Software Tools.