

## Challenge

### Background

Coal burning power plant has large conventional cooling towers. For one unit they have 4 large Allis Chalmers circulating water pumps. The pumps operate at 95 TDH, 150,000 gal/min to recirculate the water from the cooling tower bottom to the steam condensers.

### Goal

Upgrade the stuffing box packing and improve bearing lubrication to enhance reliability and lower the maintenance cost of critical pumps.



*The customer wanted improved reliability of the packing and lubrication.*

## Solution

### Product

- Install **Chesterton 1830 SSP Graphite/PTFE** packing with 7 rings per box, 7" x 9" x 1". There was virtually no leakage after startup
- Lubricate the 8 bearings with a **Lubri-Cup™ EM Automatic Grease Dispenser** applying **Chesterton 615 High Temperature Grease (HTG) #2**
- The dispensers provide a precise amount of grease at the necessary times. They are set for 6 months

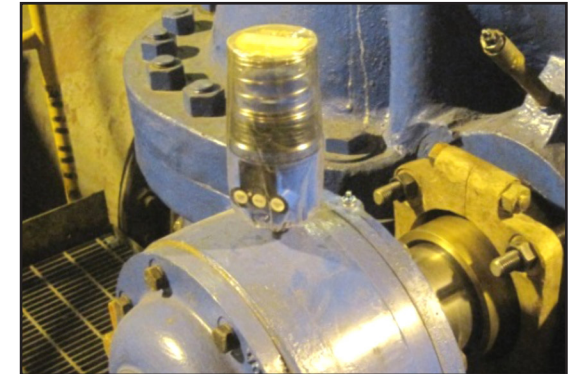


*Chesterton Lubri-Cup™ EM solution installed with Chesterton 615 HTG.*

## Results

### Savings & Improved Reliability

- After 6 months the **Lubri-Cups** were serviced with a new grease pack and battery
- On inspection after 9 months, the 8 **Lubri-Cups**, 8 bearings, and stuffing boxes are functioning well
- Virtually no leakage from the stuffing box. The bearing housing temperature is normal at 120°F



*Safe, reliable, and easy to maintain. Eliminated pump bearing issues.*