CHESTERTON
Global Solutions, Local Service.

Lubrication Saves Pump Bearings

Fossil Power
Chesterton 615 HTG #2, Lubri-Cup EM, and 1830 SSP
Case Study 028 LMRO

Challenge

Background

Coal burning power plant has large conventional cooling towers. For one unit they have four 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.

Solution

Product

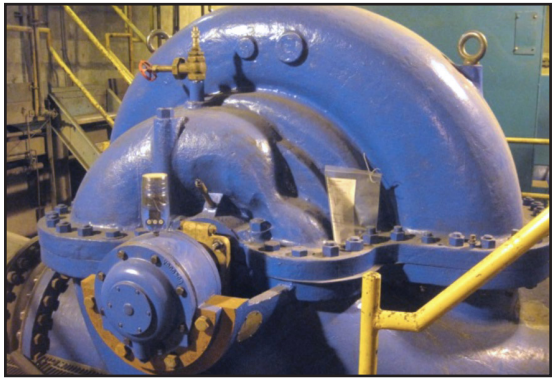
- Install **Chesterton 1830 SSP Graphite/PTFE** packing with seven rings per box, 7" x 9" x 1". There was virtually no leakage after startup
- Lubricate the eight bearings with a **Lubri-Cup™ EM Automatic Grease Dispenser** applying **Chesterton 615 High Temperature Grease (HTG) #2**
- The dispensers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

Results

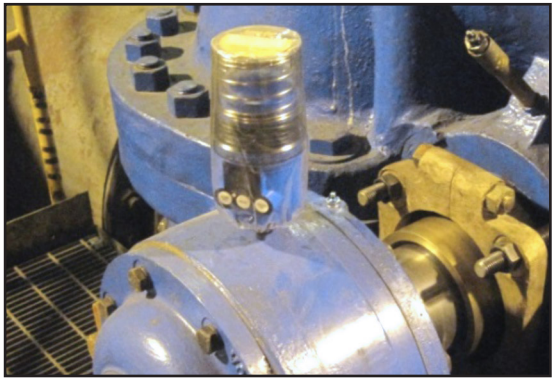
Savings and Improved Reliability

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

The customer wanted improved reliability of the packing and lubrication.



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



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

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