

Challenge

Background

Slurry pumps operate continuously at this power plant. Moisture, corrosive chemical, and abrasives contaminate bearings. The plant typically uses lithium complex grease which separated/liquefied due to heat and shear. Re-greasing was required monthly to keep adequate grease in the bearing.

Over greasing created heat and bearing failure in 8-14 months.

Solution

Product

Chesterton 635 SXC was selected due to thermal, moisture, and corrosion resistance. Bearings were surveyed and the correct volume and frequency for re-greasing was determined by the Chesterton lubricant specialists. The grease was applied using the **Chesterton Lubri-Cup™ EM** Automatic Lubricant Dispenser. It applies the right amount of grease at specific intervals.

Results

Six slurry pumps were fitted with **Lubri-Cup™ EM** and **635 SXC**. Service kits are installed every six months. No oil separation or excess heat was noted.

After 36 months of use, no slurry pump bearings have failed. Vibration monitor/trending indicates MTBR is exceeding the life of the casing.



Bearing failed frequently in slurry pumps.



Chesterton Lubri-Cup EM applied the new, high-performance grease.



After three years there was still no bearing failure.