

Challenge

Background

- Power plant was experiencing damage that resulted in loss of efficiency and productivity in a klinker grinder unit.
- Damage to the klinker was caused by water exposure, abrasive conditions, shock loading, and the lack of lubrication.
- The klinker presented constant leakage
- Typical unit rebuild costs due to bearing failures were \$23,600 annually per grinder unit.

Solution

Product

Complete grinder rebuild and upgrade using Chesterton 1730 Mill Pack, SpiralTrac type "P" stuffing box bushing, and Chesterton style 5500 Live Load disk spring washers. The bearing housings were also upgraded to labyrinth seal bearing protection and Chesterton Lubri-Cup[™] Automatic Lubricant Dispensers with 615 HTG #2 grease.

All fasteners were coated with **785 Parting Lubricant** throughout for ease of assembly and disassembly.

Results

Increased Efficiency

- After three months, the klinker grinder had minimal leakage, smooth operation, and no maintenance issues
- It is estimated that this upgrade will double the grinder's service life and drastically reduce on-going routine maintenance costs.
- Based on parts and labor savings it is estimated this will save the plant over \$47,200 yearly, per grinder unit.



Initial condition of klinker grinder.



Klinker after Chesterton solutions were applied.



Closeup of Chesterton Lubri-Cup Automatic Lubricant Dispenser.

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