Challenge

Background
The coal handling conveyor system is a critical piece of equipment for a coal-fired power plant. Reliable delivery of the coal is crucial to plant uptime.

- There are up to 10 critical areas of bearing reliability with issues that typically include load, vibration, and abrasive contamination.
- Premature failure is not an option. Bearing change consumes many hours and dollars annually.
- The cost of bearing failure can be $20,000-30,000/each plus loss of production.

Solution

Product
Upgrading the Grease
Chesterton 615 High-Temperature Grease (HTG) #2 was chosen to lubricate head, tail, tension, and snubber pulley bearings. This product increased corrosion protection, load/vibration handling, and decreased oil separation.

Deliver Grease Automatically
The Chesterton Lubri-Cup™ EM system was chosen to dispense the high-performance grease to the bearing.

Results

- The plant has installed 400 Chesterton Lubri-Cup™ EM units over a 3-year period.
- Bearing failures in the coal handling system are almost non-existent.
- Worker safety issues associated with icy wintertime lubrication maintenance have been reduced.
- The estimated cost savings to this plant is approaching $100,000/year.

Chesterton 615 HTG #2 resists chemical attack in the coal yard.
Chesterton 615 HTG #2 handles load and vibration and protects against corrosion on tension pulley bearings.
Remote-mounted Lubri-Cup™ EM dispensers for hard-to-reach areas on the head pulley.