Challenge

- Three recycled ash water pumps handling slurry were housed outdoors and subject to freezing temperatures
- When flush water froze, packing failed
- Slurry contamination caused packing seal issues

Goal

- Eliminate freezing to extend packing life
- Reduce contamination inside packing
- Increase pump reliability

Solution

- Switched from flushing with water to a controlled grease system of Chesterton 633 SXCM, a water-resistant synthetic grease that does not freeze
- Injected grease using Chesterton’s Lubri-Cup® EM Automatic Lubricator for easy maintenance
- Installed SpiralTrac™ technology to keep solids from entering the stuffing box
- Switched to Chesterton 370 Packing, a high-grade, low-friction carbon yarn

Results

- Dramatically increased sealing reliability
- Stopped freezing issue and subsequent packing failures
- Eliminated downtime and labor costs associated with packing failures
- Significantly lowered annual maintenance costs with automatic lubricator

All three pumps were converted to this solution.