

Application notes: Xcel Energy



Summary

What: 1907 Crane modification

Features: New small gauge Ace trolley, custom bridge wheels, VFD bridge control, Remtron Radio.

Benefits: All motions VFD controlled, new controls are safe and compliant with current standards. More cost effective to rebuild crane than to replace.

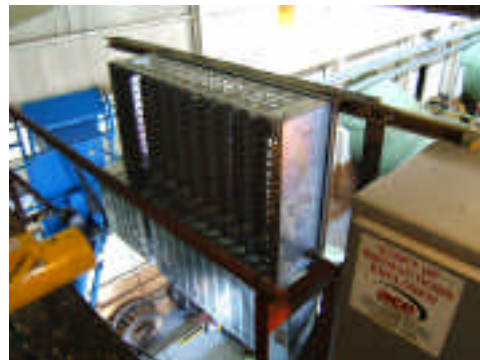
The Shoshone Hydro Plant was built in 1907 to provide electrical service to residents and businesses in the Glenwood Canyon of Colorado. As part of a consistent improvement program to provide reliable power, it became apparent the old crane was not up to the safety and duty requirements that were essential for the plant's operation.

Upon site review, removing the existing crane and providing a modern crane was not feasible as the building was built around the crane, and with all the generators in operation, providing no way to remove the crane safely.

The crane had some modifications done in the 1920's changing out the hand chain driven bridge to an electric motor, but little else had been done. Time had taken its toll, as the bridge wheels had worn through the hardness, teeth were broken on drive gears, controls were out dated and needed work.

Midwest Overhead Crane provided new custom made wheels, new electrification, new Ace narrow gauge trolley, new bridge gears, frequency drive for bridge control, and Remtron radio control for safe operation. A load test was conducted before the crane was put back in service to assure the crane was structurally sound.

The results of the re-built crane are better control, safer operation, ease of use, and improved reliability.



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