

## Shasta Dam Project

INDUSTRY: **Hydro**

APPLICATION: **Complete Upgrade, Structural and Mechanical Inspection**

PRODUCT: **Modern Hoisting System, Independent Hoisting Brakes, Variable Frequency Electrical Controls**

SERVICES: **Service and Upgrades**

### THE CHALLENGE

Our challenge was to upgrade the technology and equipment on the Shasta Dam crane. This crane is used to lift debris from the water, preventing it from flowing into the turbines.

### THE SOLUTION

American Crane supplied a modern hoisting system with two independent hoisting brakes, including new variable frequency drive electrical controls and weatherproof enclosures. The system complied with ANSI B30.2 and OSHA 1910.179. American Crane then installed the complete upgrade of the Shasta Power Plant's Draft Tube Stop Log Gantry Crane. A structural and mechanical inspection was performed and the unit load tested at 125% capacity.

### THE RESULT

The new frequency drive system removed hard starts, easing the strain on the drive components and minimizing maintenance requirements. This upgrade additionally improved the safety of the hoisting system through the addition of the second brake, reducing the possibility of future accidents.

