

## **Bonneville Tailrace Gantry Crane Replacement**

This project will replace the Bonneville first powerhouse tailrace gantry crane and crane rails, as well as upgrade the deck hatches. The tailrace deck area for the ten main units in the first powerhouse is serviced by a single gantry crane rated at 30 tons capacity. It was constructed in 1936 and placed into service in 1938. The crane has had no significant modifications or upgrades and is 21 years beyond its fifty year service life. Spare parts are becoming hard to find, the entire crane is antiquated. The crane has seen greater than normal use during the last ten years due to the on-going rehabilitation of the first powerhouse. Breakdowns occur almost every time the crane is used. The gantry crane follows a double rail that extends the length of the deck. The rails and support structure are in poor condition, with complete rail replacement determined to be the most effective solution. The tailrace deck also serves as the main roadway from the Oregon side to Bradford Island. Deck hatches cover access holes for the tail log slots for each main unit. These deck hatches are original to the powerhouse, and being designed in the 1930s, do not meet modern roadway load criteria.

Based on the current project schedule, construction is expected to be completed by September 30, 2011. The direct capital cost of the project is expected to be \$8.2 million and with AFUDC)it is expected to be a total cost of \$9.3 million.