

## **The Dalles Emergency Gantry Crane Replacement**

The emergency gantry crane operates on the powerhouse intake deck and plays a critical role in operation of the main generating units. The crane is used to deploy the intake gates and bulkheads to isolate units for maintenance or in emergency situations. The crane was placed in service in 1975 and most of the controls and electrical components are obsolete. The diesel engine used to drive the on-board generator has failed. The crane is located outside in the elements and over 40 years of weathering has degraded the crane in most aspects of its functionality. Testing and analysis has also determined that the crane is undersized for its operating requirements.

This proposed project will completely replace and upgrade the crane. The new crane will be built while the current crane is still operational. The new crane's structure and hoists will be appropriately sized. Modern variable frequency drive control will be installed which will improve the reliability and safe operation of the crane.