



BONNEVILLE DAM STATION SERVICE IMPROVEMENTS



CLIENT
U.S. Army Corps
of Engineers



LOCATION
Cascade Locks, OR



TIMELINE
October 2011 –
March 2013



DIVISION
Construction, Controls
& Engineering



VALUE
\$4,600,000

OVERVIEW

Olsson Industrial Electric completed a prime contract to upgrade the Station Service electrical systems at the Bonneville Lock and Dam. Improvements included: three double ended 480 V substations, associated medium voltage cabling, integration with GFE transformer and controls, high resistance ground systems, panelboards, and the application of temporary power sources to ensure continued power plant operations during all construction and commissioning phases.

SCOPE

- Removed existing 480 V switchgear lineups
- Designed, supplied and installed new 480 V switchgear lineups
- Installed transformers and addition of air terminal chambers for double ended substations
- Analyzed, designed, and installed surge capacitors
- Replaced 13.8 kV feeders
- Installed and integrated remote operating panels
- Installed and programmed digital protective device relays and automatic transfer controls
- Supplied remote racking devices and training on new switchgear

HIGHLIGHTS

- Zero safety incidents while working in an energized power production facility
- “Outstanding” performance rating from the U.S. Army Corps of Engineers