



DETROIT AND BIG CLIFFS DAM RELIABILITY UPGRADES



CLIENT
U.S. Army Corps
of Engineers



LOCATION
Marion County, OR



TIMELINE
September 2007 –
December 2011



DIVISION
Controls &
Engineering



VALUE
\$11,300,000

OVERVIEW

Olsson Industrial Electric completed a project to upgrade integral electrical components at the respective powerhouses for Detroit and Big Cliff Dams. Olsson replaced vintage 13.8 kV gallery switchgear in both powerhouses. The Detroit Dam switchgear was previously destroyed in a fire, lowering the dam's output potential. This project restored Detroit Dam to full potential and provided much needed reliability upgrades to the respective dams.

SCOPE

- Replaced 15 kV switchgear
- Replaced 15 kV non-segregated bus
- Replaced 15 kV isolated phase bus
- Replaced DC panel boards
- Replaced MCCs and CLRs
- Designed and installed emergency backup generators (diesel)
- Control board upgrades
- Transformer replacements

HIGHLIGHTS

- Zero safety incidents with more than 36,000 hours of on-site work
- "Above Average" performance rating from the U.S. Army Corps of Engineers