

USACE Foster Dam Electrical Reliability Upgrade



DIVISIONS

Olsson Industrial Electric
Olsson Controls
OS Engineering



LOCATION

Sweet Home, OR



START DATE

June 2020



END DATE

August 2024

SCOPE OF WORK:

- The overall scope of work consisted of demolition and replacement of the existing electrical power system
- Design, manufacturing, and replacement of the following:
 - 2000A 4160V SP Switchgear and associated control boards, complete with relays, meters, and controls
 - Double-ended 48V switchgear
 - (2) Dry-type 500 kVA substation transformers high-resistance grounding system
 - (3) Motor control centers (3) 480V panelboards
 - Preferred AC and DC system
 - 175kW diesel engine-generator, fuel tank, and automatic transfer switches. This included modifications to the spillway structure to allow for new installation
- Replacement of existing cable tray and conduit systems, power, and control wiring
- Replacement and design of new SCADA PLC and ER Cabinets
- Upgrade and replace existing powerhouse ventilation system
- Engineering support as well as in-house controls integration for 4160V and double-ended switchgear