



## Hydroelectric facility upgrades by rehabilitating major equipment

**Location:**

United States

**Segment:**

Hydroelectric

**Problem:**

Electrical gear obsolete and in poor condition

**Solution:**

Upgrade and rehabilitate the electrical distribution system

**Results:**

Equipment upgrade, two substations and utility coordination

**Project Overview**

The generation facility consists of eight turbine generators that generate at 4160V.

Eaton was selected to provide a new electrical infrastructure for the plant which had not been in operation for 14 years.

**Project Highlights**

- Design-build project
- Relay protection package
- 4.16-13.8kV substation
- Utility interconnection substation 4.2 miles from plant
- New arc resistant switchgear
- New AC station service system
- DC system and battery
- High resistance grounding
- Revenue metering
- All new cabling and bus work
- Generator step up transformer
- Two MCC's
- Fire detection system
- Security system
- All new lighting for two powerhouses and outdoor substations
- Short circuit and load flow studies
- Arc flash analysis
- Test and commission all systems
- Provide operator and maintenance training
- Drawing package and O&M manuals



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