Aging Hydro Facility Needs Overhaul

Enter EESS. Eaton’s engineering team performed a comprehensive study of the facility and submitted a thorough solution proposal that provided for new medium voltage switchgear, cables, and busses; two new station service transformers; new controls, and surge protection. The control scheme was upgraded to provide for automated gate operation that provides better pond level control.

Importantly, a high resistance grounding system was added to each generator. This advanced design is an Eaton exclusive solution which is custom-designed for each location. It provides protection for the generator’s windings from the typically long duration faults that occur on the generator side of its circuit breaker.

Eaton’s Electrical Services & Systems

Eaton’s engineering and consulting services focus on understanding your business requirements and setting strategies for your power system to satisfy them. Our engineers and consultants can help diagnose problems identify ways to improve performance, or transform concepts into flexible, practical solutions that can improve productivity and capital utilization. We can help keep your power system safe, efficient, reliable and up-to-date.

The Eaton global service team is one of the largest and most experienced teams of power system engineers in the industry, with industry-standard software and advanced modeling and analysis capabilities at our fingertips. Our comprehensive portfolio of design services includes safety studies, energy management audits, and power quality and reliability audits.

With Eaton’s help defining strategies for your power system, you’ll witness a range of business benefits, from reduced costs to more effective use of capital. Our engineering and consulting services help you manage your power system as a strategic resource that can give you a competitive advantage.

Call 1-800-498-2678 to get expert support for powering and controlling your business. For more information, visit: www.eaton.com/EESS

Location:
Northeastern U.S.

Segment:
Small hydro generating facilities

Problem:
The plant was in desperate need of a complete overhaul.

Solution:
A comprehensive study of the facility, upgraded control scheme, and addition of a high resistance grounding system.