

Grand Coulee & Hungry Horse SCADA Replacement

This project involves replacing obsolete hardware and proprietary software that the currently installed SCADA system uses in operating both Grand Coulee and Hungry Horse facilities. The replacement system involves up-to-date modular hardware and non-proprietary software. This new system will be completely assembled, programmed and tested before installation begins at Grand Coulee. Installation will be incremental, gradually taking over functions from the current SCADA system until the new system is fully operational. The project scope includes disposing of the current system and its components.

SCADA systems are vitally important to BPA operations as they are used to collect real-time reservoir operations and water release data, provide operational tools for management of available water supplies, and provide cost-effective and efficient hydropower generation peaking. At Grand Coulee, the system also provides process control technology for river regulation, flood control, water deliveries for irrigation and domestic uses, as well as power, and environmental enhancement opportunities.

The Grand Coulee SCADA system is at the end of its useful life and requires replacement in order to maintain existing service and performance levels. In 1999, the Department of the Interior identified the Grand Coulee SCADA system as a critical infrastructure system as defined in the Presidential Decision Directive 63, and as such, its functionality must be maintained.