

Foster Turbine and Generator Rehabilitation

This project is to perform minimal rehabilitation (Maintain Kaplan function) on two units at Foster Dam. Foster is classified as an Area Support dam and is in the Willamette basin. Area Support dams provide a total of approximately 3 percent of energy capacity and 18 percent of storage for the FCRPS. Foster is a reregulating plant for the Foster/Green Peter reregulation pair. The Foster power plant is a base load plant and operates at a daily load factor of no less than 80%. The plant has been in continuous operation since being constructed and placed into service on September 6, 1968. The two generators at Foster are rated at 10 MW and 0.95 power factor. The two turbines are the Kaplan type and operate regularly.

The rehabilitation work will include full disassembly of the unit, repair of the wicket gates and machining of the runner hub to correct seal issue and minimal work to allow for continued operation at full generator load.