

**MAJOR FUNCTION**

This is highly skilled journeyman level work in the operation, regulation and adjustment of hydroelectric generating units and associated equipment and facilities, as well as performance of routine mechanical and grounds maintenance. Work is performed on an independent basis and the employee must exercise independent judgment in meeting unusual or emergency conditions. Work is performed under the general supervision of a Plant Manager and is reviewed through observation, inspections and results obtained.

**ESSENTIAL AND OTHER IMPORTANT JOB DUTIES****Essential Duties**

Operates hydroelectric turbine/generators, spillway floodgates, log chutes and related equipment. Establishes and maintains proper generator voltage and frequency in order to place units on line. Synchronizes units to the electric grid. Operates switchyard breakers as required. Monitors and regulates proper water flows. Inspects and reports abnormal conditions on the earthen dam or other areas of the facility. Interacts with local residents and fishermen to apprise them of the dam operation conditions. Makes the proper notifications when dam operations change. Maintains earthen dams and grounds. Performs routine mechanical maintenance to facility and equipment. Checks and maintains lubrication of all machinery. Maintains a record of all facility operations and maintenance activities. Maintains communication with the Control Center and other generating facilities as to facility's operational condition. Performs related work as required.

**Other Important Duties**

Initiates the FERC emergency action plan in the event of an emergency. Keeps facility clean and orderly. Safely operates grounds keeping equipment. Performs related work as required.

**DESIRABLE QUALIFICATIONS****Knowledge, Abilities and Skills**

Considerable knowledge of hydroelectric generating principles and practices. Knowledge of the standard practices, methods, tools, and materials of a wide variety of mechanical trades such as, carpentry, and mechanical work. Knowledge of the various tools and technical equipment used by a modern power plant mechanic such as micrometers, jacking tools, feeler gauges, machine threading methods, and other tools, machines and instruments. Considerable knowledge of the occupational hazards associated with general maintenance and operations. Considerable knowledge of safety rules and first aid. Considerable knowledge of rigging and overhead cranes. Ability to work with blueprints and to understand and carry out difficult oral and written instructions. Ability to perform work independently. Ability to establish and maintain effective working relationships as necessitated by the work. Ability to work in adverse weather and operating conditions, including performing heavy manual tasks. Ability to work at heights, climb ladders and work in enclosed spaces. Must be in good physical condition. Skill in the use of microcomputers and the programs and applications necessary for successful job performance.

**Minimum Training and Experience**

Possession of a high school diploma or an equivalent recognized certificate and completion of the Electric Department's apprenticeship program for Hydro Electric Operations/Mechanics covering hydroelectric operations and/or mechanical maintenance, repair and installation of power plant equipment; completion of a recognized mechanic trade apprenticeship program or an equivalent external hydro operation/mechanical maintenance apprenticeship program and one year of journeyman level work experience that includes hydroelectric operations and mechanical

maintenance, repair and installation of power plant equipment; or an equivalent combination of training and experience.

Necessary Special Requirement

Must be medically certified to wear a respirator and pass a respirator fit test prior to employment.

Must possess a valid Class E State driver's license at time of appointment.

Established: 05-25-01

Revised: 04-23-04\*

09-02-11\*