

MAJOR FUNCTION

This is highly skilled journeyman level work in the operation, regulation and adjustment of steam, simple cycle combustion turbines and combined-cycle generating units, auxiliaries and miscellaneous station equipment. Work consists of: performing switching operations on station or substation equipment; overseeing and directing the activities of other employees; training and instructing assigned employees and participating in required training programs. While work is performed according to established routine, employee must exercise independent judgment in meeting unusual or emergency conditions. Work is performed under the general supervision of the Shift Supervisor and is reviewed through observations, inspections and by results obtained.

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

Operates steam electric power plant boiler combustion controls, burner management and fuel safety systems, and steam turbine generator controls. Operates combustion turbine generator controls. Controls and monitors the starting and loading of turbine generators and associated equipment. Establishes and maintains proper generator voltage and frequency in order to place units on line. Places unit on line through synchronization with the electrical power system. Removes units from service as required. Closes and opens switchyard circuit breakers as required. Monitors all operating conditions and parameters and makes necessary adjustments or initiates corrective actions as required for safe and efficient operation. Records operating conditions and readings in plant logs. Reports problems or abnormal conditions to the Shift Supervisor. May direct the work and training of apprentice personnel. Participates in safety training as required. Checks with the operator being relieved for special orders and operating conditions. Reviews logs and makes visual inspection of panels and equipment. Performs related work as required.

Other Important Duties

Keeps work area clean at all times. Performs related work as required.

DESIRABLE QUALIFICATIONS**Knowledge, Abilities and Skills**

Thorough knowledge of the operation of high pressure boilers, turbine-generators, condensers, pumps, motors, fans and all other auxiliary equipment pertaining to the operation of a power plant. Considerable knowledge of the principles of electrical power generation. Ability to put turbine-generators on line and synchronize units. Ability to put tripped circuits back into service. Ability to anticipate and react quickly to emergency conditions. Ability to follow complex technical oral and written instructions and the ability to read and work from blueprints. Ability to work in adverse weather and operating conditions including heavy manual tasks. Ability to work at heights, climb ladders and work in enclosed spaces. Must be in good physical condition.

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 Power Plant Operations; completion of an external apprenticeship program in power plant operations and one year of journeyman level work experience that includes the operation of steam electric power plant boiler combustion controls, burner management systems, and turbine-generator controls; 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.

An employee assigned to the Purdom Power Plant, or who may be occasionally required to have unescorted access to the Port Facility portion of the Purdom Power Plant, (as determined by the General Manager - Electric and/or the Director of such employee's department), must obtain Transportation Workers Identification Credentials (TWIC) within 90-days of employment, and must maintain such credentials throughout his/her period of employment in that capacity, as a condition of continued employment.

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