



JOB DESCRIPTION

Title: **GENERATION PLANT MANAGER**
Department: Power
Class Code: 3412
FLSA Status: Non-Exempt
Effective Date: February 13, 2024

GENERAL PURPOSE

Under broad supervision from the Engineering Manager, performs work in the operation and maintenance of the generation plant and assists as needed in the operation of other Power Department facilities associated with the transmission, distribution, protection and control of electricity.

ESSENTIAL DUTIES

- Directs day-to-day operations and maintenance of power generation resources; directs and conducts analysis of power generation equipment to monitor and maintain equipment efficiencies; monitors emissions, exhaust temperatures, backflow and related operation functions.
- Directs general technical analysis of generation plant operations as needed to anticipate and prevent operating problems; makes recommendations for generation equipment specifications and manages research and development sites in cooperation with vendors; assures proper maintenance procedures are followed to uphold equipment warranty and extend life of equipment.
- Directs or performs scheduled maintenance or repair of generation engines and equipment; generators, switchgear, governors, turbines, compressors, heating and cooling systems, oil pumps, oilers, meters, gauges, belts, monitors air/fuel ratios; tunes and adjusts equipment as needed; checks engine faults and overall engine functions; verifies timing and checks combustion knock; sets programmable logic controller (PLC) to adjust engine operating specifications.
- Submits O&M and capital budgets for approval. Maintains approved O&M and capital budgets for the turbine plant and auxiliary systems of the generation plant.
- Obtains, evaluates, and awards bids for contractors and professional consulting services to accomplish maintenance, installation, and rebuilds for turbine plant and associated services.
- Prepares and submits all required state and federal reports for the generation plant.
- Coordinates and tracks any required NERC/WECC generation equipment maintenance and testing. Ensures all operations and maintenance procedures are performed in accordance with City policy to ensure compliance with federal, state, and local electrical requirements.
- Coordinates compliance, monitoring, and testing of City-owned generation resources per Title V and Approval Order permit requirements. Coordinates reporting submittals to the EPA and the Utah Division of Air Quality.
- Performs troubleshooter responsibilities for generation plants, substations, SCADA, and relaying on a rotating basis.

- Performs related duties as required.

MINIMUM QUALIFICATIONS

Education and Experience

- Graduation from high school and successful completion of four (4) years of technical training in a power related field, plus a minimum of four (4) years working as a generation maintenance technician, which could include the following areas: gas turbine generation, hydro generation, substation maintenance, relaying and SCADA, or any equivalent combination of education and experience.

Special Requirements

- Must possess a valid Utah Commercial Driver License.
- Must be generally available for emergency "call-out" at any time of day, year-round, regardless of weather conditions.
- Must take troubleshooter responsibility for plants and substations several times per year for a period of seven days each, as determined by an assignment schedule adopted by the department.
- Must be willing to accept standby assignment when needed.

Necessary Knowledge, Skills and Abilities

- Thorough knowledge of generation power plants; considerable knowledge of natural gas mechanics; considerable knowledge of electrical systems; considerable knowledge of power transmission and distribution. Thorough knowledge of proper safety techniques and procedures.
- Thorough knowledge of gas turbine operations. Ability to trouble shoot and correct major and minor problems with gas turbines and gas compressor plant.
- Working knowledge of hydro generation operation. Ability to trouble shoot and correct minor problems with hydro generators and diversion facilities.
- Working knowledge of relaying to understand the zones of protection and function of each type of relay. Ability to determine cause of relay operations, clearing of faults and re-energizing of station after fault condition.
- Knowledge of fiber optic communication; ability to terminate and splice fiber optic cable.
- Ability to interpret schematic drawings and blueprints.
- Ability to create effective working relationships with employees and other departments; ability to work with the public; ability to communicate both verbally and in writing.

TOOLS & EQUIPMENT USED

- Motorized equipment including pickup trucks, bucket trucks, and scissor lift equipment. Personal computer including word processing, spreadsheet and specialized software including thermal camera reporting. Hand tools, mechanic tools, tools related to Vibration Monitoring and Burner Acoustic Monitoring (BAM), and tools needed to perform borescope inspections.

PHYSICAL DEMANDS

The physical demands described here are representative of those that must be met by an employee to successfully perform the essential functions of this job. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

- While performing the duties of this job, the employee is frequently required to sit; walk, talk or hear; use hands to manipulate, handle, feel or operate objects, tools, or controls; and reach with hands and arms.

- The employee must frequently lift and/or move up to 50 pounds and occasionally lift and/or move up to 100 pounds. Specific vision abilities required by this job include close vision, distance vision, color vision, peripheral vision, depth perception, and the ability to adjust focus. Must be able to meet DOT hearing standard requirements.

WORK ENVIRONMENT

The work environment characteristics described here are representative of those an employee encounters while performing the essential functions of this job. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

- While performing the duties of this job, the employee regularly works in outside weather conditions. The employee occasionally works near moving mechanical parts in high, precarious places and is occasionally exposed to wet and/or humid conditions, ambient air, temperature extremes, fumes or airborne particles, traffic, toxic or caustic chemicals, risk of electrical shock, and vibration.
- The noise level in the work environment is usually moderate, but occasionally high.

DEPT/DIVISION APPROVED BY: _____ DATE: _____

EMPLOYEE'S SIGNATURE: _____ DATE: _____

H. R. DEPT. APPROVED BY: _____ DATE: _____