

Generation Technician

DEPT: Power
DIV:
DATE: August 2023

FLSA: Non-exempt
EEOC: Technician



POSITION SUMMARY

Assists in managing generation equipment, including maintenance and repair of reciprocating engine generators and electrical switchgear equipment and environmental compliance regulations and permitting. Assists with maintenance of company fleet assets.

SUPERVISION RECEIVED

Works under the direct supervision of the Substation Supervisor.

SUPERVISION EXERCISED

None.

ESSENTIAL FUNCTIONS

Assists with day-to-day operations of internal power generation resources.

Assists with maintenance and repair of generation engines and related equipment (generators, switch gears, governors, turbines, compressors, heating and cooling systems, oil pumps, oilers, meters, gauges, belts), monitors and adjusts 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.

Assists with monitoring equipment efficiencies, emissions, exhaust temperatures, backflow, and related operational functions.

Assists in general technical analysis of generation plant operations as needed to anticipate and prevent operating problems; ensures proper preventative maintenance procedures are followed to uphold equipment warranty and extend life of equipment.

Assists with maintenance and rebuild of reciprocating engine functions based upon run-time specifications; replaces heads, turbo cartridges, water regulators, etc.; performs major overhauls in replacing or repairing rods, pistons, bearings, cylinder liners, etc.

Assists as needed in compliance reports to UDAQ, EPA, OSHA, and renewal of state and federal operating permits.

Responds to emergency calls on a 24-hours basis.

Performs other duties as required.

MINIMUM QUALIFICATIONS

1. Education and Experience:

- A. Graduation from high school; plus four (4) years of specialized training provided through vocational college or professionally sponsored certificate programs;

AND

- B. Five years of experience performing above and related duties;

OR

- C. An equivalent combination of education and experience.

2. Knowledge, Skills, and Abilities:

Working knowledge of methods and techniques of natural gas reciprocating engine generation facility operations; repair and maintenance of natural gas reciprocating engines, including inspection, overhaul, and methods of welding using arc and gas equipment; mechanical and electrical operation and repair of all components of control equipment including governors, relays, and breakers installed in various types of metal clad switchgear; codes, standards, state and federal regulations, and safety practices and principals involved in power utility operations; electrical supplies and equipment and their use.

Skill in the operation of mechanical equipment associated with the various responsibilities of this position.

Ability to read and comprehend manuals, blueprints, wiring diagrams, instructions, etc.; keep operating records, prepare reports, and perform general mathematical calculations; establish and maintain effective working relationships with employees, other agencies, and the public; communicate effectively, both verbally and in writing.

3. Special Qualifications:

- Must possess a valid Utah Driver license.
- CPR certification
- Safety-sensitive position – required to follow the Company’s FR Body Protection Policy and all other safety-sensitive policies and/or procedures as dictated by the APPA Safety Manual.
- Required to sign up, attend, and complete a 4-year substation apprenticeship and assume all duties that will be required as for a substation apprentice.

4. Work Environment:

Work normally performed with occasional exposure to seasonal weather conditions. Some job stress may exist due to the constant noise produced by high RPM engines and turbines. Tasks may require a variety of physical activities involving muscular strain, related to walking, standing, stooping, sitting, reaching, and lifting. Essential functions require walking, talking, hearing, and seeing. Mental application utilizes memory for details, verbal instructions, emotional stability, discriminating thinking and creative problem solving. Daily travel required in normal course of job performance. Regular exposure to hazards common to high voltage power system.

Disclaimer: The above statements describe the general nature, level, and type of work performed by the incumbent(s) assigned to this classification. They are not intended to be an exhaustive list of all responsibilities, demands, and skills required of personnel so classified. Job descriptions are not intended to and do not imply or create any employment, compensation, or contract rights to any person or persons. Management reserves the right to add, delete, or modify any and/or all provisions of this description at any time as needed without notice. This job description supersedes earlier versions.

I _____ have reviewed the above job description. Date: _____
(Employee)