

Title: Power Plant Technician

PG: 029

Status: Civil Service

Position Reports to: Supervisor of Engineering/Supt. Of Operations

Department: Lakeland Electric

Class Code: 3069

Date: 10/09

GENERAL DESCRIPTION OF CLASS:

This is journey level technical work assisting power generation personnel and assuming responsibility for testing programs in all phases of high pressure coal, oil, and natural gas fueled power plant operations. Work includes the responsibility for supervising and performing all phases of non-destructive testing, performance testing and operation of power plant water treatment and waste water disposal equipment. The employee is knowledgeable of all technical procedures involved and shall be capable of performing all computations required to produce requested results from gathered data. Minimal supervision is provided by an appropriate supervisor or foreman and employee is free to use independent judgment in performance of the job.

ESSENTIAL FUNCTIONS:

The following examples do not necessarily identify duties performed by any single incumbent. The following is intended to be descriptive of the responsibilities of the classification as a whole.

1. Performs hourly checks on equipment such as boilers, turbine-generators, FD/ID fans, air systems, cooling water systems, lube oil systems, hydrogen and CO₂ systems, circulating water systems, combustion turbine, demineralizers, water treatment systems, and associated equipment. Performs hourly checks on Operating Systems such as: FGD scrubber, SCR, demineralizers, condensate polisher, water treatment plant, processed water treatment system, ash ponds, chlorination systems, cooling tower water quality control.
2. Organizes, schedules, and performs pollution testing, non-destructive testing, quality control testing, performance testing, etc., as required. Insures that tests are performed on schedule to comply with any requirements for State and Federal permits.
3. Racks in and out 110, 240, 480, and 4160 volt breakers for safe electrical isolation of mechanical equipment per Red Tag Lockout Policy.
4. Monitors water quality and evaluates data; makes adjustments to any of the above controls to maintain product quality. Performs analytical testing as required.
5. Writes technical reports on results of testing programs.
7. Operates high pressure steam plant, water treatment, gas treatment, and water disposal equipment.

ADDITIONAL RESPONSIBILITIES:

1. Performs related work as required.

KNOWLEDGE, SKILLS & ABILITIES:

1. Considerable knowledge of equipment involved in pollution testing, non-destructive testing, performance testing and water treatment.
2. Good working knowledge of power plant operations.
3. Ability to use complex analytical equipment.
4. Knowledge of basic math and engineering principles and concepts required to perform some computations.
5. Ability to use complicated computer programs and write technical reports.
6. Ability to establish and maintain effective working relationships with other employees.

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WORKING ENVIRONMENT/CONDITIONS:

Requires physical work that involves walking or standing some of the time, exerting up to 40 pounds of force on a recurring basis, and routine keyboard operations.

The job risks can include exposure to chemical, biological, electrical and mechanical hazards. Employee will be required to work in bright/dim light and adverse weather conditions. Employee may also have frequent exposure to the general hazards of the industrial working environment and construction sites. The job requires normal visual acuity, and field of vision, hearing, speaking, color perception, sense of smell, depth perception, and texture perception.

QUALIFICATIONS (EDUCATION, TRAINING AND EXPERIENCE):

1. Graduation from an accredited two (2) year college or university with an Associate Degree in Engineering or equivalent course work.
2. Two (2) years experience in a Power Plant Laboratory or similar laboratory experience.
3. An equivalent combination of education and experience which is directly related to the foregoing specific requirements may be substituted.

SPECIAL REQUIREMENTS:

1. Must possess a valid state of Florida driver's license.
2. Must maintain a valid telephone number.
3. May be required to pass and maintain qualification for:
 - a. Respiratory Protection Physical
 - b. Pulmonary Function
 - c. Qualitative and Quantitative Fit Test(s)
4. May be required to work overtime, or alternate hours, as necessary for the efficient operation of the department. Position may be designated as Mission Critical by Department Director.