

Title: Power Plant Operator II
PG: 023
Status: Civil Service
Position Reports to: Designated Supervisor
Department: Lakeland Electric

Class Code: 3120
Date: 10/09

GENERAL DESCRIPTION OF CLASS:

This is skilled level work assisting in the operation of a large multi-fuel burning steam electric power plant in one of three areas listed below. An employee in this classification works directly under the direction of the appropriate supervisor and is responsible for operating heavy duty power generating equipment.

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.

1. Performs regular hourly checks on burner systems, pumps, air compressors, motors, heaters, coolers, hydrogen systems, fuel gas, fuel oil, RDF systems, boilers, turbine generators, FGD systems, and associated equipment in a large multi-fuel burning power plant.
2. Racks in & out 110, 240, 480 and 4160 volt breakers as needed for safe isolation of electrical systems from mechanical equipment for required maintenance.
3. Train and guide Plant Helper and PPO I's to perform their jobs safely and efficiently.
4. Performs hourly equipment and system parameter checks on any of the following systems or areas: demineralizers, cooling towers, water treatment plant, processed water treatment system, condensate polisher and boiler water chemical feed systems.
5. Analyzes product quality by laboratory test results and makes adjustments to process feed equipment as required. Assists in training of lower level operators.
6. Performs hourly equipment and system parameter checks on any of the following systems or areas: refuse processing, conversion system, fuel handling equipment, and landfill operation.

ADDITIONAL RESPONSIBILITIES:

1. Performs related work as required.

KNOWLEDGE, SKILLS & ABILITIES:

1. Knowledge of the functions of mechanical equipment found in a coal burning power plant such as: coal preparation equipment and handling, ash and pyrites removal systems.
2. Knowledge of all fuel systems - Coal, RDF, #2 oil, #6 oil, and natural gas.
3. Knowledge of boiler water cycle, steam cycle, cooling water, circulating water system, condensate and feedwater cycles, boiler flue gas cycles, air systems, boiler FDIS systems, and turbine steam cycles.
4. Knowledge of McIntosh Plant Red Tag and Lockout System.
5. Knowledge of the operating principles and practices of environmental systems associated with a coal, oil and natural gas fueled power plant as it relates to water treatment and water quality.
6. Knowledge of water treatment plant, processed water treatment system, demineralizers, condensate polisher and cooling towers.
7. Ability to conduct system adjustments and make decisions to obtain highest product quality.
8. Knowledge of the operating principles and practices of environmental systems associated with a coal, oil, gas, and RDF power plant.
9. Knowledge of refuse processing, conversion system, coal handling or landfill operation.
10. Ability to operate heavy duty equipment such as large front end loader, bulldozer, large off road dump trucks, vacuum truck, compactor and boom crane.
11. Ability to understand oral and written instructions and carry out routine duties without direct supervision.

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12. Ability to read and understand operating instruction manuals.
13. Ability to determine and take proper action quickly in emergency situations.

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 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. High school diploma or its equivalent.
2. Two (2) years of specifically related work experience as a Power Plant Operator I.
3. An equivalent combination of education and experience that is determined to be directly related to the foregoing specified requirements may be substituted.

SPECIAL REQUIREMENTS:

1. May be required to possess and maintain a valid state of Florida class "A" commercial driver's license with appropriate endorsements as are required by employing department.
2. Must maintain a valid home 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.