

Title: Power Plant Operator III
PG: 028
Status: Civil Service
Position Reports to: Designated Supervisor
Department: Lakeland Electric

Class Code: 3121
Date: 10/09

GENERAL DESCRIPTION OF CLASS:

This is responsible skilled level work assisting in the operation of a large steam electric power plant. An employee in this classification works under the direction of the appropriate supervisor at either power plant, 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 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.
2. Performs hourly checks on equipment such as boilers, turbine-generators, FD/ID fans, air systems, cooling water systems, circulating water systems, coal pulverizers, bottom ash & fly ash systems, RDF system, FGD system, coal conveying systems, cooling tower systems, fire protection systems, precipitator, limestone ball mill and other associated equipment.
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. Performs hourly checks on Operating Systems such as: demineralizers, condensate polisher, water treatment plant, processed water treatment system, ash ponds, chlorination systems, cooling tower water quality control.
5. Monitors water quality and evaluates data; makes adjustments to any of the above controls to maintain product quality.
6. Performs hourly checks on Operating System such as refuse processing, conversion systems, coal handling and conveying, and landfill.
7. Operates any of the above systems as well as large mobile heavy duty equipment such as front end loader, compactor, bulldozer, large off road dump trucks, vacuum truck, and boom crane.

ADDITIONAL RESPONSIBILITIES:

1. Performs related work as required.

KNOWLEDGE, SKILLS & ABILITIES:

1. Knowledge of fuel oil and fuel gas systems, boiler water cycle, steam cycle, cooling water systems, circulating water systems, condensate and feedwater systems, boiler flue gas, air systems, turbine steam cycles, soot blowing systems, combustion turbines, demineralizers, and water treatment systems.
2. Ability to use one line flow diagrams to trace all Plant Systems.
3. Work closely with crafts and foremen to ensure good communications of all operational problems and concerns, mechanical, electrical, instrumentation and or modifications.
4. Assists in all areas to ensure a smooth teamwork atmosphere.
5. Knowledge of fuel oil, fuel gas, coal and RDF systems, boiler water cycle, steam cycle, cooling water systems, circulating water systems, condensate and feedwater systems, boiler flue gas, air systems, turbine steam cycles, soot blowing systems, FGD systems, bottom ash and fly ash systems, coal conveying systems, limestone ball mill, fire protection systems, and Red Tag and Lockout Systems.

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6. Must be willing to be a member of Plant Emergency Response Team.
7. Work closely with crafts and foremen to ensure good communications of all operational problems and concerns, mechanical, electrical, instrumentation and or modifications.
8. Assists in all areas to ensure a smooth teamwork atmosphere.
9. Considerable knowledge of chemical tests, boiler water, steam, cooling water systems, circulating water systems, condensate and feedwater system.
10. Ability to operate and make independent decisions on demineralizers, water treatment, and PWTs control boards.
11. Knowledge of water chemistry limits of each area.
12. Knowledge of and ability to operate refuse processing system, flue gas desulfurization waste disposal system, coal unloading, bunkering, crushing, stockpiling, and waste disposal landfill.
13. Ability to operate control panels and make independent decisions adjusting flows and mixes as needed.
14. Knowledge of landfill site regulations for the waste disposal site.
15. Knowledge of the Lubrication systems on all machinery in appropriate areas including the use of different grades of lubricants.
16. Knowledge and ability to rack breakers per the Plant Red Tag and Lockout Policy.
17. Ability to understand oral and written instructions and carry out routine duties without direct supervision.
18. Ability to read and understand operating instruction manuals.
19. 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 experience in specifically related work at the level of a Power Plant Operator II.
3. Must have completed the required McIntosh Plant Operator III check sheet as well as the Larsen Plant Operator III check sheet.
4. 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. Must possess a valid state of Florida CDL Class A 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.

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