

Title: Power Plant Operator

Class Code: 3119

PG: 014

Date: 10/09

Status: Civil Service

Position Reports to: Power Production Foreman/Operations or Shift Supervisor

Department: Lakeland Electric

GENERAL DESCRIPTION OF CLASS:

This is skilled level work assisting in the operation of a large Steam Electric Power Plant in one of several different areas listed below:

Power Operations

An employee in this classification works directly under the supervision of the appropriate supervisor at either Larsen or McIntosh Plant and is responsible for operating heavy duty power generating equipment.

Water Operations – McIntosh Plant

An employee in this classification works directly under the supervision of the Power Production Foreman - Operations or Environmental Operations Foreman - Water assisting in the Operation of Environmental Systems in a steam electric generating plant involving water quality.

Material Handling – McIntosh Plant

An employee in this classification works directly under the supervision of the Environmental Operations Foreman - Material and is responsible for operating plant systems and/or heavy duty mobile equipment as it relates to Environmental Systems.

ESSENTIAL FUNCTIONS:

Power Operations

1. Performs regular hourly checks on burner systems, pumps, air compressors, motors, heaters, coolers, hydrogen systems, fuel gas, fuel oil, RDF fuel, boilers, turbine generators, combustion turbines, FGD Systems, and associated equipment in a large multi-fuel burning power plant.

Water Operations - McIntosh Plant

1. Performs hourly equipment and system parameter checks on any of the following systems or areas: demineralizers, cooling tower, water treatment plant, processed water treatment systems and boiler water chemical feed system.

Material Handling - McIntosh Plant

1. Performs hourly equipment and systems parameter checks on any of the following systems or areas: refuse processing, coal handling, conversion system, land fill operation, and operates various pieces of large heavy duty mobile equipment.

ADDITIONAL RESPONSIBILITIES:

1. Performs related work as required.

KNOWLEDGE, SKILLS & ABILITIES:

Power Operations

1. Knowledge of the functions and mechanics of equipment found in steam electric power plants such as turbine generators, combustion turbines, condensers, boilers, pumps, air compressors, motors, ash handling, scrubber and related equipment.
2. Knowledge of full flow sequences involved in a steam plant; steam, condensate, feedwater, air, boiler gas, etc.

Water Operations - McIntosh Plant

1. Knowledge of the functions and safe operating practice related to mechanical equipment.
2. Some knowledge of processes involved in checking water quality.
3. Ability to read charts, gauges, and meters accurately.

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Material Handling - McIntosh Plant

1. Some knowledge of the functions and safe operating practices related to mechanical equipment.
2. Ability to read charts, gauges and meters accurately. Ability to operate various pieces of mobile equipment such as: large front end loaders, large bulldozer, compactor, large off road dump trucks, vacuum truck, and/or boom crane.

ALL REQUIRE THE FOLLOWING:

1. Ability to understand oral and written instructions and carry out routine duties without direct supervision as well as the ability to read and understand operating instruction manuals.
2. 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):

Power Operations

1. High school diploma or its equivalent
2. One (1) year of experience in the operation of steam boiler and turbine generating equipment as a plant helper, having completed the Larsen Plant Power Plant Operator I check sheet and **one** of the four McIntosh Power Plant Operator check sheets (I, II, III, IV). Can operate unassisted as a Power Plant Operator I on shift at either Larsen or McIntosh Plant.
3. An equivalent combination of education and experience that is determined to be directly related to the foregoing specified requirements may be substituted.

Water Operations - McIntosh Plant

1. High school diploma or its equivalent.
2. One (1) year of experience in a water quality lab or water plant.
3. An equivalent combination of education and experience that is determined to be directly related to the foregoing specific requirements may be substituted.

Material Handling - McIntosh Plant

1. High school diploma or its equivalent.
2. One (1) year of experience in operating environmental related systems or mobile heavy equipment.
3. Must possess and maintain a valid state of Florida class "A" commercial drivers license with appropriate endorsements as are required by the employing department.
4. An equivalent combination of education and experience that is determined to be directly related to the foregoing specific requirements may be substituted.

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SPECIAL REQUIREMENTS:

1. Must possess and maintain a valid state of Florida driver's license.
2. Must possess and maintain a valid home telephone.
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.