MICHIGAN CIVIL SERVICE COMMISSION JOB SPECIFICATION

POWER PLANT OPERATOR

JOB DESCRIPTION

Employees in this job operate and maintain stations, engines, and mechanical equipment to provide utilities, such as light, heat, or power for state owned buildings.

Position Code Title - Power Plant Operator-E

Power Plant Operator 7

This is the entry level. The employee performs a range of Power Plant Operator assignments while learning the methods of the work.

Power Plant Operator 8

This is the intermediate level. The employee performs an expanding range of Power Plant Operator assignments in a developing capacity.

Power Plant Operator E9

This is the experienced level. The employee performs a full range of Power Plant Operator assignments and uses independent judgement to make decisions in specific work situations.

Position Code Title - Power Plant Operator-A

Power Plant Operator 10

This is the advanced level. The employee functions as a crew leader overseeing the work of lower-level Power Plant Operators and/or others and performing experienced-level Power Plant Operator assignments.

NOTE: Employees can progress to the experienced level based on satisfactory performance and possessing required experience.

JOB DUTIES

NOTE: The job duties listed are typical examples of the work performed by positions in this job classification. Not all duties assigned to every position are included, nor is it expected that all positions will be assigned every duty.

Maintains the operation of equipment such as steam boilers, stokers, pumps, water softeners, water heaters, absorbers, centrifugal chillers, cooling towers, heat recovery ventilation, cogeneration turbines, steam and electric engines, air compressors, and generators.

Regulates dampers, water level in boilers and fuel supply; checks water gauges and steam gauges ensuring sufficient steam is generated; controls the flow of steam though the distribution system; maintains proper temperature of chilled and condensing water.

Operates automated boiler and chiller controls and electrical and pneumatic controls.

Analyzes water samples and adds chemicals.

Lubricates and adjusts machinery and equipment and performs minor repairs.

Inspects equipment and controls.

Maintains energy production and consumption records.

Recommends improvements, alterations, and repairs.

Maintains inventory lists and requisitions supplies and materials.

Cleans floors, windows, tools, and power plant equipment.

Assists in training others in work techniques.

Performs related work and other tasks as assigned.

Additional Job Duties

Power Plant Operator 10 (Crew Leader)

Assigns work to crew members.

Ensures continuous shift coverage for plant operations.

Instructs and trains in proper work methods and processes.

Reviews job performance by observing and critiquing work techniques and completed assignments.

Inspects and tests new machinery and equipment installations.

Prepares and maintains records related to the work.

Checks daily logs to determine proper operation of equipment.

JOB QUALIFICATIONS

Knowledge, Skills, and Abilities

NOTE: Some knowledge is required at the entry level, developing knowledge is required at the intermediate level, considerable knowledge is required at the experienced level, and thorough knowledge is required at the advanced level.

Knowledge of the operation and maintenance of high-pressure boilers and related mechanical equipment.

Knowledge of the occupational hazards and safety precautions applicable to the work.

Knowledge of the steam and chilled water generating process.

Knowledge of automated boiler and chiller controls and electrical and pneumatic controls.

Knowledge of firing boilers and operation of absorbers and centrifugal chillers.

Knowledge of computer software related to the work.

Knowlege of steam and chilled water distribution systems.

Skill in the use of the tools and equipment associated with power plant operations.

Skill in using computers and electronic equipment related to power plant operations.

Ability to prepare and maintain records related to assignments.

Ability to communicate effectively.

Additional Knowledge, Skills, and Abilities

Power Plant Operator 10 (Crew Leader)

Ability to train and oversee the work of others.

Ability to prioritize, organize, and coordinate the work of the unit.

Working Conditions

Some jobs require an employee to work with high voltage equipment.

Some jobs require an employee to work in an environment that involves exposure to unpleasant and noxious fumes and odors.

Some jobs require an employee to be exposed to hazardous work environments.

Some jobs require an employee to work outdoors.

Physical Requirements

The job duties require an employee to bend, reach, stoop, stand and/or walk for extended periods.

The job duties require an employee to lift and/or move heavy objects.

Education

Education typically acquired through completion of high school.

Experience

Power Plant Operator 7

No specific type or amount is required.

Power Plant Operator 8

Two years of experience assisting skilled trades workers in operating a power plant.

Power Plant Operator E9

Four years of experience in power plant operation including two years equivalent to a Power Plant Operator 8.

Power Plant Operator 10

Five years of experience in power plant operation including one year equivalent to a Power Plant Operator E9.

Alternate Education and Experience

Power Plant Operator E9

Four years of experience as a Maintenance Mechanic, including two years working in a power plant.

Power Plant Operator 10

Five years of experience as a Maintenance Mechanic, including three years working in a power plant.

Special Requirements, Licenses, and Certifications

See individual position descriptions.

NOTE: Equivalent combinations of education and experience that provide the required knowledge, skills, and abilities will be evaluated on an individual basis.

JOB CODE, POSITION TITLES AND CODES, AND COMPENSATION INFORMATION

Job Code Description

POWPLTOPR POWER PLANT OPERATOR

| Position Title | Position Code | Pay Schedule |
|------------------------|---------------|--------------|
| Power Plant Operator-A | PWPLOPRA | A31-012 |
| Power Plant Operator-E | PWPLOPRE | A31-029 |

02/18/2024