

## **POWER PLANT OPERATOR TITLE SERIES DEFINITIONS**

Positions which are, for a majority of the time, engaged in providing mechanical maintenance to a variety of building systems and other related equipment and are more appropriately classified as Maintenance Mechanic.

1. Positions which are, for a majority of the time, engaged in utility plant operation (i.e., potable water pumping or waste water treatment) and maintenance activities and are more appropriately classified as Utility Plant Operator.
2. Positions which are, for a majority of the time, engaged in custodial activities within a power plant and are more appropriately classified as Custodian.
3. Positions which are, for a majority of the time, engaged in work in a state-operated high-pressure power plant assisting Power Plant Operators in the operation, monitoring and maintenance of the plant and its equipment and are more appropriately classified as Power Plant Assistant.
4. Positions which are, for a majority of the time, engaged in buildings and grounds maintenance and repair work and are more appropriately classified as Facilities Repair Worker.

### **I. DEFINITIONS**

#### **POWER PLANT OPERATOR TITLE DEFINITION SERIES**

Positions in this title definition series are responsible for a majority of the time for the operation and/or monitoring and maintenance of coal, gas and/or oil-fired boilers and/or chillers, and/or electric generators, and related auxiliary equipment in a state-operated power plant. Positions which perform operator duties a majority of the time may also perform a variety of maintenance activities on the power plant equipment and/or have responsibility for operating water treatment facilities less than a majority of the time. Positions which perform maintenance activities on power plant equipment a majority of the time must also function as plant operator as needed.

#### Examples of work performed:

- Place boilers on line and make adjustments for proper operation.
- Monitor equipment control systems, observe changes in boiler pressure, temperature, steam flow, air flow, water level, etc., and take necessary corrective action.
- Monitor and adjust fuel and air flows and adjust boiler controls in order to maintain plant compliance with environmental regulations applicable to the plant.
- Adjust equipment controls to provide for optimum operating levels and conditions.
- Monitor the operation of auxiliary boiler equipment such as air compressors, feedwater pumps, condensate pumps and fuel forwarding equipment.
- Test water for chemical treatment purposes.

- Take readings from charts, meters and gauges at established intervals and take corrective steps as necessary. Initiate appropriate remedial action when operating conditions such as low water, excess back pressure, fuel failure or other equipment malfunctions occur.
- Regenerate water softeners to assure the proper water condition for boiler use.
- Adjust controls of water and fuel feed systems, blowers, and igniters to start or shut down boilers.
- Adjust boiler controls to provide steam at specified temperature and pressure for turbine loads according to power demands.
- Place standby emergency electrical generators on line in emergencies and monitor the temperature, output, and lubrication of the system.
- Start boiler feed pumps and put them in service on the boiler.
- Switch boiler operation from one type of fuel use to another.
- Operate coal handling equipment within a plant.
- Adjust fuel/air intake as necessary to achieve optimum boiler efficiency.
- Monitor and adjust the operation of a chiller(s) within the plant.
- Monitor and test boiler water quality.
- Operate potable water plant.
- Operate sewage handling equipment.
- Make repairs to power plant equipment.
- Perform routine maintenance on plant equipment.
- Perform scheduled maintenance on plant equipment.
- Assist craftworkers in major repairs of plant equipment.

### **POWER PLANT OPERATOR**

Positions allocated to this level perform the full range of duties in a power plant under close progressing to general supervision.

### **POWER PLANT OPERATOR - SENIOR**

Positions allocated to the senior level perform the full range of duties in a power plant under general supervision and: (1) act as the sole operator on a shift responsible for operation of the entire plant during the shift; or (2) perform assigned maintenance duties related to power plant equipment for a majority of the time and function as plant operator as needed; or (3) perform the full range of duties in a power plant which has a combination of at least two of the following three characteristics: (a) multiple fuel capability for heating and cooling purposes beyond that of an emergency, back-up operation; (b) electrical co-generation capability which is utilized within the plant; or (c) multiple chillers within the plant.

### **POWER PLANT OPERATOR - IN CHARGE**

Positions allocated to this level perform the full range of duties in a power plant and: (1) act as a leadworker/team leader of all power plant operators in a plant; or (2) act as a leadworker/team leader of all power plant operators on a shift within a plant; or (3), in plants which do not have an assistant power plant superintendent, are in charge of a significant program function in a power plant such as the maintenance and repair program of the plant and the coordination of plant activities in the absence of the superintendent; or (4) act as a leadworker of all power plant maintenance personnel. Responsibilities include troubleshooting, diagnosis, calibration and repair of all gages, transmitters, recorders, flow meters, positioners, and actuators throughout the power plant. This allocation also acts as the emergency power plant operator in-charge. Work is performed under general supervision.

## **II. QUALIFICATIONS**

The qualifications required for these positions will be determined at the time of recruitment. Some positions may require certification for chlorofluorocarbons (CFC) to handle the maintenance and repair of refrigeration equipment.

## **III. RELATED POSITION TITLES**

1. Positions which are, for a majority of the time, engaged in providing mechanical maintenance to a variety of building systems and other related equipment and are more appropriately classified as Maintenance Mechanic.
2. Positions which are, for a majority of the time, engaged in custodial activities within a power plant and are more appropriately classified as Custodian.
3. Positions which are, for a majority of the time, engaged in work in a state-operated high-pressure power plant assisting Power Plant Operators in the operation, monitoring and maintenance of the plant and its equipment and are more appropriately classified as Power Plant Assistant.
4. Positions which are, for a majority of the time, engaged in buildings and grounds maintenance and repair work and are more appropriately classified as Facilities Repair Worker.