POSITION DESCRIPTION
SENIOR POWER PLANT OPERATOR

POSITION SUMMARY: This position will operate a variety of equipment in the Halbert Heating Plant which operates 24 hours a day, year round. It is responsible for the operation of the gas and coal fired boilers, various pumps, turbines, motors, air compressors, etc., during the assigned shift operation. It will perform a variety of duties, to include monitor, maintain, and repair power plant equipment. This position performs under the general supervision of the Power Plant Superintendent.

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A. Operate a variety of equipment in the power plant.

1. Operate boilers fired by gas and coal.

2. Operate valves, pumps, motors, motor controllers, air compressors, belt drives, fans, blowers, steam turbines, stokers, pneumatic controls, conveyors, elevators, scales, generators, chemical feed equipment and water treatment equipment.

3. Record and interpret readings from thermometers, pressure gauges, flow meters, and recorders.

4. Operate emergency electric power plant as required.

5. Blow down boilers.

6. Operate automatic combustion controls on automatic, manual, or local manual as necessary to meet conditions.

7. Exercise judgment in the event of personal casualties or breakdown in plant equipment.

8. Take boiler water samples and test same for sulfite phosphate, alkalinity, total dissolved solids, hardness and Ph.

9. Mix boiler water treatment chemical in proper portions and regulate feed of same to maintain boiler water within control limits.

10. Backwash, re-generate and rinse water softeners and dealkalizers.

11. Make hourly rounds of the plant monitoring equipment and climbing many flights of stairs and ladders.

12. Monitor computerized energy management systems

13. Follow hazardous material handling procedures in accordance with Material Safety Data Sheets (MSDS).
Perform a variety of general repair and maintenance duties.

1. Operate front end loader to move coal and other materials.
2. Diagnose problems and make minor repairs and adjustments to power plant equipment such as; loosening and tightening fixtures, monitor bearings, replace gaskets and pump seals, assemble valves, fittings and pipes. Join/cut pipes by various means (i.e. threading, soldering, cutter, band saw, chop saw). Install or replace electric motors and make adjustments as necessary.
3. Assist with major repair of power plant equipment.
4. Keep work area and equipment clean and in an orderly condition.
5. Clean boiler and remove ashes as required; prepare coal samples.
6. Lubricate equipment
7. Read and understand blueprints of building mechanical systems

Knowledge/Skills required of the position

Ability to kneel, squat, bend, climb and stretch to read gauges, perform rigging or hoisting tasks, operate valves and perform other related duties.

Ability to read gauges, thermometers and sight glasses.

Ability to work an 8 hours shift, alone, in large industrial steam plant setting.

Ability to climb stairs and overhand ladders.

Ability to enter manhole and exit same via overhand ladders.

Ability to enter and work in confined spaces.

Ability to swing a sledge hammer and be able to lift up to 50 pounds.

Ability to shovel coal or debris.

Must have a valid driver’s license

General custodial and building maintenance knowledge

Knowledge of the operation of coal, gas, and oil fired steam boilers, coal and ash handling equipment, water pumps, steam turbines, pressure gauges, temperature gauges, flow meters, load centers, and switchboards.

Knowledge of water testing and water treatment