POSITION DESCRIPTION
SENIOR POWER PLANT OPERATOR- RELIEF 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.

70%
A. Operate a variety of equipment in the power plant.

1. Operate boilers fired by gas and coal.

2. Operate valves, centrifugal pumps, motors, motor controllers, air compressors, fans, blowers, steam turbines, stokers, conveyors, elevators, scales, emergency electrical generators, computerized energy management systems, metering pumps 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. Work with multiple high pressure boilers, lighting off and securing boiler, take boiler water samples and test same for sulfite phosphate, alkalinity, total dissolved solids, hardness and Ph. Familiar with water analysis, treatment systems and chemical feed equipment.

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

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.
30%

B. **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. Experience with high pressure piping, pneumatic controls, belt drives, loosening/tightening fixtures, fittings and pipes. Cutting pipes by various means, packing bearings, replacing gaskets, assembling/replacing valves, replacing pump seals, perform rigging or hoisting tasks.

3. Assist with major repair of power plant equipment, soldering copper piping, replace belts and hoses, installing or replacing electric motors, and manipulate small parts in the maintenance of 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

**Knowledge/Skills required of the position**

- Ability to kneel, squat, bend, climb and stretch to read gauges, operate valves and perform other related duties.

- Ability to read and understand blueprints of building mechanical systems and material safety data sheets (MSDS), and keep accurate records.

- 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, overhand ladders and scaffolding.

- Ability to enter manhole and exit same via overhand ladders.

- Ability to enter and work in confined spaces that may be dirty with dust or soot.

- Ability to swing a sledge hammer and be able to lift up to 50 pounds to the shoulder and carry 25 feed. Ability to safely use power and hand tools weighing up to 15 pounds.

- Ability to shovel coal or debris.

- Ability to work in extreme heat (temperatures occasionally in excess of 100 degrees F) and extreme cold (Wisconsin winter weather)
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.

Ability to work rotating and weekend shifts

Ability to wear an OSHA approved respirator