University of Wisconsin - Superior  
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, 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.

Operate a variety of equipment in the power plant.

- Operate boilers fired by gas and coal
- Operate valves, pumps, motors, motor controllers, air compressors, fans, blowers, stokers, conveyors, elevators, scales, generators, and water treatment equipment
- Record and interpret readings from thermometers, pressure gauges, flow meters, and recorders
- Operate emergency electric power plant as required
- Blow down boilers
- Operate automatic combustion controls on automatic, manual, or local manual as necessary to meet conditions
- Exercise judgement in the event of personal casualties or breakdown in plant equipment
- Take boiler water samples and test same for sulfite phosphate, alkalinity, total dissolved solids, hardness and Ph.
- Mix boiler water treatment chemical in proper portions and regulate feed of same to maintain boiler water within control limits
- Operate Reverse Osmosis equipment, softeners, and water pre-filters
- Make hourly rounds of the plant monitoring equipment and climbing many flights of stairs and ladders

Perform a variety of general repair and maintenance duties.

- Operate front end loader to move coal and other materials
- Diagnose problems and make minor repairs and adjustments to power plant equipment
- Assist with major repair of power plant equipment
- Keep work area and equipment clean and in an orderly condition
- Clean boiler and remove ashes as required; prepare coal samples
- Lubricate equipment

Knowledges/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 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 75 pounds
• Ability to shovel coal or debris
• General custodial and building maintenance knowledge
• Knowledge of the operation of coal, gas, and oil fired steam boilers, coal and ash handling equipment, waterpumps, pressure gauges, temperature gauges, flow meters, load centers, and switchboards
• Knowledge of water testing and water treatment
• Knowledge of mechanical and electrical principals

MINIMUM QUALIFICATIONS
• High School Diploma or equivalency

PREFERRED QUALIFICATIONS
• 1+ years of boiler experience