

Jacob Hanson

BOILER PLANT OPERATOR

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SUMMARY

Boiler plant operator with 4 years running high pressure boilers and steam distribution for a district energy plant and a paper mill in Wisconsin. Controls gas and fuel oil firing from the DCS, tests water treatment chemistry, and keeps emissions monitoring records clean for state air permits.

EXPERIENCE

Boiler Plant Operator

05/2023 - Present

Isthmus District Energy

Madison, WI

Operator in a district energy plant with 4 boilers serving 120 buildings.

- Run 4 150,000 lb/hr boilers from the DCS, delivering steam to 120 campus and city buildings.
- Convert boiler firing between natural gas and fuel oil during curtailments, with no steam interruptions in 3 winters.
- Test water treatment levels every 4 hours and adjust chemicals, holding condensate return above 85%.
- Record emissions monitoring data and opacity checks for monthly state air permit reports.

Utility Operator

06/2022 - 04/2023

Northwoods Paper Company

Kaukauna, WI

Utility operator in a 3-machine paper mill power house.

- Operated feedwater pumps, deaerators and draft fans for 2 power boilers serving a 3-machine paper mill.
- Performed preventive maintenance on 25 pumps and 40 steam traps each quarter.
- Diagnosed burner trips with the shift lead and cut nuisance trips by 30% after flame scanner fixes.
- Monitored steam distribution headers and relief valves on hourly rounds, writing up 50 defects for repair.

SKILLS

High Pressure Boilers

Steam Distribution

Distributed Control Systems (DCS)

Water Treatment

Emissions Monitoring

Feedwater Pumps

Burner Controls

Preventive Maintenance

Troubleshooting

Communication Skills

EDUCATION

Associate of Applied Science

05/2022

Madison College

Madison, WI

Electromechanical Technology

CERTIFICATES

High Pressure Boiler Operator Certification

09/2023

National Institute for the Uniform Licensing of Power Engineers (NIULPE)

OSHA 10-Hour General Industry Safety

07/2022

OSHA Training Institute