

BOARD OF REGENTS, STATE OF IOWA

REGENT MERIT SYSTEM

Class Title: Water Systems Operator

Class Code: 5521

Pay Grade: 209

GENERAL CLASS DESCRIPTION:

Under general supervision, implements and monitors chemical treatment programs and various water treatment systems at a university heating plant. Operates all chemical feed equipment based on results secured by water testing.

CHARACTERISTIC DUTIES AND RESPONSIBILITIES:

1. Performs water analysis and testing needed to support operation and monitors the performance of the chemical treatment program for the following systems: boiler feedwater system, condensate return system, condenser water system, chilled water systems, and the service water systems.
2. Calibrates and checks accuracy of the various analyzers and recorders used to monitor and control the chemical treatment programs.
3. Based on water testing results, adjusts and operates chemical feed systems to maintain proper chemical levels in the various water systems. Anticipates system changes due to changes in equipment operation or weather conditions and adjusts chemical feed systems accordingly.
4. Maintains records of chemical usage, dosages, water production and system performance in order to evaluate performance of the chemical treatment program.
5. Maintains chemical inventories and orders chemicals as needed to maintain adequate inventories. Receives and unloads chemicals in accordance with applicable regulations.
6. Operates, monitors, troubleshoots, and performs minor maintenance of various water treatment systems and equipment. This equipment consists of the iron removal system, demineralizer, zeolite water softeners and condensate polishers. Responsible for operating procedures for this equipment.

The tasks listed under the heading of Characteristic Duties and Responsibilities are examples of the variety and general nature of duties performed by employees in positions allocated in the class. The list is descriptive only and should be used for no other purpose. It is not intended that any position include every duty listed, nor is it intended that related duties cannot be required.

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KNOWLEDGES, SKILLS AND ABILITIES:

1. Knowledge of power plant systems and equipment including boilers, turbine generators, boiler feed water and condensate systems.
2. Knowledge of chemical corrosion inhibitors, biocides and other industrial water treatment chemicals including laboratory and field testing procedures, handling, and safety information.
3. Ability to lift at least 80 pounds.
4. Ability to communicate effectively orally and in writing.
5. Ability to perform mathematical computations.
6. Knowledge of the state Hazardous Chemicals Risks Right to Know Act.
7. Knowledge of potable water systems and water softening systems.
8. Ability to operate and calibrate test equipment and read gauges and charts.
9. Ability to withstand constant high noise, dust, fumes, poor lighting and ventilation and high temperature levels.

MINIMUM ELIGIBILITY REQUIREMENTS:

1. Four years of experience in the operation of water treatment equipment such as demineralizers, softeners, polishers, iron filters; or
2. A combination of experience in the operation of water treatment equipment such as demineralizers, softeners, polishers, iron filters combined with post high school chemistry courses. Chemistry course work may be substituted for up to two years of the four-year experience requirement.

REVISION EFFECTIVE:

July 1, 1999