

SENIOR WATER TREATMENT PLANT OPERATOR

DISTINGUISHING FEATURES OF THE CLASS: This position has responsible charge of the actual operation of a Water Treatment Plant and other Water Department facilities as a white collar manager. This is a supervisory and technical position involving responsibility for assisting senior personnel in the safe and efficient operation and maintenance of a Type A Water Treatment Plant, Ultra Violet Disinfection Facility and Pumping Stations, containing facilities for filtration with pre-treatment or a chemical softening process. This position differs from that of a Water Treatment Plant Operator by virtue of its supervisory capacity and responsibility for total supervision of the operation in the absence of the Chief and Assistant Chief Water Plant Operator. Direct supervision is exercised over operators, assistant operators, trainees, laboratory personnel and mechanical and maintenance assistants as assigned by senior personnel.

TYPICAL WORK ACTIVITIES: (Illustrative Only)

- Supervises and participates in the operation of the plant to assure the most efficient and economical use of equipment, supplies and manpower;
- Assists in the daily inspection of the U.V. facility and plant and plant machinery;
- Assists in making or supervising the necessary tests for control of plant operation and other Water Department facilities;
- Assists in the instruction of operators, assistant operators, trainees and other subordinate employees;
- Conducts periodic examinations of plant equipment as assigned by senior personnel and coordinates the necessary repairs and maintenance;
- Assists in conducting special studies for improvement of water quality and plant operation;
- Assists in maintaining records and preparing periodic reports on the operation of the plant and other Water Department facilities;
- Supervises the implementation of instructions of senior personnel on the regulation of chlorinators and chemical feeders and U.V regulatory compliance;
- Assists in the maintenance of inventory of supplies, chemical and equipment;
- Coordinates the daily activities at a Water Treatment Plant and other Water Department facilities as assigned by senior personnel;
- Travels between facilities daily to conduct field testing as required;
- Enters and retrieves information in an automated information system (SCADA system);
- Performs related work as required at the Water Treatment Plant and other Water Department facilities;

FULL PERFORMANCE KNOWLEDGE, SKILLS, ABILITIES AND PERSONAL CHARACTERISTICS:

- Thorough knowledge of the practices used and equipment required in the operation and maintenance of a Type A Water Treatment Plant containing facilities for filtration with pretreatment or a chemical softening process;
- Good knowledge of the operations of a modern water treatment plant and Ultra Violet Disinfection Facility;
- Good knowledge of the principles and applications of physics, chemistry and bacteriology as they relate to water purification;
- Good knowledge of personal computers and office equipment including Microsoft Word and Excel;
- Skill in the operation of manual power tools;
- Skill in the operation and repair of pumps, valves and related mechanical and electrical equipment;
- Ability to make routine laboratory and field tests for control of plant operation;
- Ability to supervise the work of subordinates;
- Ability to deal effectively with others;
- Mechanical aptitude;
- Alertness;
- Dependability;
- Physical condition commensurate with the demands of the position.

MINIMUM QUALIFICATIONS:

I. Type A Plant whose designated capacity exceeds 2.5 million gallons per day:

A. Either

1. Graduation from a regionally accredited or New York State registered college or university with a Bachelor's degree in engineering, natural science or a related field;

OR

2. Eligibility for a professional engineer's license issued by the State of New York and possession at the time of permanent appointment; **OR**

3. Graduation from a regionally accredited or New York State registered two-year college with an Associate's degree in applied science and four (4) years of satisfactory experience in the actual operation of a Water Treatment plant; **OR**

4. Graduation from high school or possession of a New York State high school Equivalency diploma and six (6) years of a satisfactory experience in operation of a Water Treatment plant; **AND**

B. Successful completion of appropriate level water treatment operator courses approved by the New York State Health Department; **AND**

C. At least one (1) year of satisfactory experience in the actual operation of a water treatment plant with pretreatment, chemical softening or other similar processes acceptable to the State Department of Health.

II. Type A Plant whose designated capacity is 2.5 million gallons or less per day:

Graduation from high school or possession of a New York State High School Equivalency diploma; successful completion of appropriate level water treatment operator courses approved by the New York State Health Department and not less than one (1) year of satisfactory experience in the actual operation of a water treatment plant.

SPECIAL REQUIREMENTS FOR ACCEPTANCE OF APPLICATION:

I. Type A Plant whose designated capacity exceeds 2.5 million gallons per day:

Eligibility for a Grade II-A certification issued under the provisions of the New York State Sanitary Code and renewal requirements therein; possession of certification at time of appointment.

II. Type A Plant whose designated capacity exceeds 2.5 million gallons or less per day:

Eligibility for a Grade II-A certificate issued under the provisions of the New York State Sanitary Code and renewal requirements therein; possession of certification at time of appointment.

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