

BOROUGH OF SOUTH RIVER

JOB DESCRIPTION

POSITION: WATER TREATMENT PLANT OPERATOR

DEPARTMENT: Department of Public Works, Water Department

SALARY: _____

SUMMARY STATEMENT

Under direction, operates, adjusts, regulates, and maintains plant machines and equipment to purify and clarify water for human consumption and industrial use; does other related duties.

Source of Authority:

Director of Public Works
Borough of South River Employee & Personnel Policy Manual

Major Job Duties:

1. Operates and controls electric motors, pumps, and valves to regulate flow of raw water into treatment plant.
2. Add specified amounts of chemicals such as chlorine, ammonia, and lime into water or adjusts automatic devices that admit specified amounts of chemicals into tanks to disinfect, deodorize, and clarify water.
3. Turns valves to regulate water through filter beds to remove impurities.
4. Pumps purified water into water mains.
5. Monitors panel board and adjusts controls to regulate flow rates, loss of head pressure and water elevation, and distribution of water.
6. Cleans tanks and filter beds using backwashing (reverse flow of water).
7. Repairs and lubricates machines and equipment using hand tools and power tools.
8. Tests water samples to determine acidity, color, and impurities using colorimeter, turbidimeter, and conductivity meter.
9. Add chemicals to tanks to assist coagulation-oxidation.
10. Records data such as residual content of chemicals, water turbidity, and water pressure.
11. May perform minor repairs such as replacing packing in pumps or valves and/or replacing bearings in motors and pumps, lubricating machines, and equipment.
12. May operate primary pumping equipment to transfer raw water to treatment plant or to distribute treated water to residential, commercial, or industrial establishments.
13. Will be required to learn to utilize various types of electronic and/or manual recording and computerized information systems used by the agency, office, or related units.

Secondary Job Duties:

1. Performs such other duties that may be assigned to him by the Director of Public Works.

Required Knowledge, Abilities and Skills:

Knowledge of the purpose and operation of varied equipment found in a water treatment plant such as pumps, valves, and gauges.

Knowledge of methods used in operating, adjusting and regulating lime feeders, chemical feed machines and chlorinators, purification machines, water pumps, filters, and flowmeters.

Knowledge of methods used in regulating amounts of water and pumping it into a distribution system or storage tanks.

Knowledge of the location and functions of all equipment present in the plant.

Knowledge of techniques used in collecting water samples and in conducting and recording standard bacteriological analysis of water and all other tests required by the State.

Knowledge of methods used in replacement of packing in pumps and valves, replacement of bearings in motors and pumps, and of equipment lubrication.

Knowledge of techniques used in conducting other tests using colorimeter.

Knowledge of arithmetic operations used in determining correct amounts of chemicals (addition, subtraction, multiplication, and division of whole numbers).

Knowledge of precautions to be observed when handling chemical agents.

Knowledge of water treatment processes including but not limited to chlorination and so forth.

Ability to work under general direction and to follow a prescribed schedule.

Ability to do work that is repetitive but requires strict adherence to prescribed procedures.

Ability to check operations and to record various data according to established format.

Ability to maintain proper water levels and water pressures in water system and tanks.

Ability to relay information regarding shift operation such as problems encountered and action taken.

Ability to perform minor maintenance such as oiling and greasing, cleaning and replacing gaskets and piping, and replacing packing.

Ability to stand and walk for prolonged periods of time. Ability to climb. Ability to turn valves and controls.

Ability to learn to utilize various types of electronic and/or manual recording and information systems used by the agency, office, or related units.

Ability to work on your own and perform duties and make decisions.

Ability to perform basic plumbing.

Knowledge of Sanitary Collection System-Pump Stations.

Ability to read, write, speak, understand, or communicate in English sufficiently to perform the duties of this position. American Sign Language or Braille may also be considered as acceptable forms of communication.

Persons with mental or physical disabilities are eligible as long as they can perform essential functions of the job with or without reasonable accommodation. If the accommodation cannot be made because it would cause the employer undue hardship, such persons may not be eligible.

Education, Experience and Training:

Two (2) years of experience in operating, adjusting, regulating, repairing, and maintaining electric motors, pumps, valves, and other electrical and mechanical equipment of the type used in a water treatment plant, pumping station, or filtration plant. Appointees will be required to possess a Class A CDL Driver's License valid in New Jersey.

License:

Appointees must possess a valid Public Water Treatment Operator license as listed below, issued by the NJ Department of Environmental Protection.

Candidate must possess a T2 license-Water Treatment

Candidate must possess a W2 license-Water Distribution

Candidate must possess C-2 Collection System Operators License.