

POSITION DESCRIPTION
WATER PLANT OPERATOR B
FLSA: Non-Exempt

GENERAL DESCRIPTION OF CLASS

Under general supervision, this is the journey level class in the Water Treatment Plant Operator series. Positions at this level require demonstrated ability to perform the full range of complex water treatment plant maintenance and repair duties as well as to learn the full range of complex plant operational duties. Positions allocated to the Water Treatment Plant Operator B level may act as shift operator.

REPORTS

- This position reports to the Operations Manager.
- This position does not have a supervisory role.

ESSENTIAL TASKS

- Operates the water treatment plant including related subsystems and instrumentation.
- Monitors the treatment process from the control board/computer screen; monitors various treatment processes including ozonation, coagulant feed, rapid mix, flocculation, sedimentation, filtration, and disinfection; monitors the addition of chemicals added for corrosion control and dental caries prevention.
- Monitors water quality by performing laboratory tests at various stages in the treatment process including tests for chlorine residual, fluoride residual, chlorite residual, pH, turbidity, hardness, alkalinity, odors, and other tests as necessary to maintain water quality; calibrates laboratory equipment; maintains laboratory records.
- Determines chemical dosage and makes adjustments to plant processes as necessary.
- Reads gauges and meters; interprets data to maintain the proper treatment process, proper distribution operation, security, and alarm status; makes flow adjustments.
- Operates pumps and valves utilizing a SCADA system; operates power plant utilizing computer interface; monitors systems for alarms, make adjustments, and provides appropriate response; notifies water stand-by or other personnel as necessary to respond to problems.
- Operates mechanical equipment including pumps and motors, chemical feed pumps and systems, air compressors, and manual, electrical, and pneumatically operated valves; operates hand and power tools; operates a light truck.
- Operates equipment related to the chlorination and ozone feed system; participates in calibration of chemical feed equipment.
- Maintains operational logs and records.
- Makes visual inspections; monitors facilities and roads to insure adequate security.
- Performs preventative and predictive maintenance on treatment plant equipment; assists System staff in making major and/or specialized repairs to equipment; coordinates work of contractors and of other departments.

- Operates the System's water transmission and distribution system including reservoirs and pump stations; ensures adequate availability and pressure to all service connections; delivers required flow rate to member agencies.
- Operates South Anderson Water System to ensure raw water deliveries to industrial customers.
- Provides appropriate response to emergencies and spills including those involving hazardous materials.
- Responds to inquiries from the vendors, suppliers, and public; answers questions from customers pertaining to water quality, low pressure, and leak reports.
- May assist in training new operators.
- Performs jar tests as needed to determine the quality of water.
- Inspects and maintains instrumentation apparatus including changing charts, cleaning portable instruments and taking meter readings in order to ensure quality control.
- Maintains logs in order to document plant operations.
- Starts generators and puts them on-line as needed.
- Calibrates bench equipment daily.
- Performs other duties as required.

DESIRED MINIMUM QUALIFICATIONS

Knowledge of:

- Operations, services, and activities of a water treatment program; basic principles of chemistry and microbiology, mathematical calculations used in the water treatment operations; principles, practices, materials, chemicals, and operating procedures related to the operation and maintenance of a water treatment plant, hydraulic and distribution principles
- Tools and equipment used in the operation and maintenance of water treatment plant facilities; maintenance and repair principles and practices including preventative maintenance procedures, operating principles of plant equipment including valves, pumps, and motors.
- Methods and techniques of reading and interpreting gauges, recording devices, and related monitoring systems.
- Emergency maintenance and repair procedures related to water treatment facilities.
- Methods and techniques of conducting laboratory tests and procedures related to water treatment analysis.
- Pertinent federal, state, and local laws, codes, and regulations.
- Operational and safety regulations pertaining to water treatment plant operations; occupational hazards and standard safety precautions; principles and procedures used in the proper handling of chemicals.
- Office procedures, methods, and equipment including computers and applicable software applications; principles and practices of record keeping.

SPECIAL CERTIFICATIONS AND LICENSES

- Must possess a Class B Water Treatment Plant Operator License issued by the State of South Carolina.
- Must possess and maintain a valid state driver's license.

AMERICANS WITH DISABILITIES ACT REQUIREMENTS

- Requires medium to heavy work that involves walking, standing, stooping, crouching, crawling, climbing, balancing, lifting, digging, pushing or raising objects and also involves exerting between 20 and 50 pounds of force on a recurring basis and 50 to 100 pounds of force on an occasional basis.
- The job may risk exposure to bright/dim light, dusts and pollen, extreme heat and/or cold, wet or humid conditions, extreme noise levels, vibration, fumes and/or noxious odors, moving machinery, electrical shock, heights, toxic/caustic chemicals, disease/pathogens, confined spaces.
- The job requires normal visual acuity, depth perception, field of vision, hearing and speaking abilities, color perception, and odor perception.
- Anderson Regional Joint Water System is an Equal Opportunity Employer. ADA requires the Water System to provide reasonable accommodations to qualified individuals with disabilities. Prospective and current employees are invited to discuss accommodations.