

WATER TREATMENT PLANT OPERATOR

DEFINITION

Under general supervision, participates in the operation and maintenance of surface water treatment facilities and equipment..

SUPERVISION RECEIVED/EXERCISED

Receives supervision from a Water Manager or Designee. This classification does not exercise supervision.

DISTINGUISHING CHARACTERISTICS

This journey-level class performs technically complex work in the operation of surface water treatment facilities. Incumbents exercise independent discretion and judgment in matters related to work procedures and methods. Incumbents at this level are expected to become fully knowledgeable of the assigned area and learn the full range of maintenance and repair functions. Incumbents perform the most advanced functions related to the maintenance and repair of equipment at water treatment/production facilities. This class serves as a Shift Operator. This class may provide technical guidance to Water Treatment Plant Operators-in-Training. This class is distinguished from Senior Water Treatment Plant Operator in that incumbents of the latter provide lead direction to Water Treatment Plant Operators and Water Treatment Plant Operators-In-Training.

EXAMPLES OF IMPORTANT AND ESSENTIAL DUTIES

May include, but are not limited to, the following:

Monitors plant performance by conducting analyses on samples from various stages in the treatment process; reads gauges, makes flow adjustments, and controls reservoir levels using SCADA computers.

Determines chemical dosage and makes adjustments to plant processes as necessary.

Performs laboratory analyses on water samples.

Operates and maintains mechanical equipment at the water treatment facilities, which includes but is not limited to the chemical feed systems, pumps, motors, and mixers.

Performs general, preventative, and repair maintenance on equipment.

Assists in bulk chemical deliveries.

Cleans, paints, and lubricates equipment.

Operates disinfection equipment and obtains samples as required.

Provides appropriate response to emergencies and spills, including hazardous materials.

Maintains operational logs and records.

Makes visual inspections and monitors surface treatment facilities and grounds.

Assists in training and provides technical guidance to new operators and OIT's.

Receives and participates in training on laboratory procedures, plant operations, safety procedures, and emergency response.

Operates light vehicles and equipment.

Works as a shift operator.

Assists in the preparation of plant and laboratory reports.

Gives facility tours to public and responds to inquiries regarding water quality.

Orders chemicals as needed to maintain adequate supply.

Maintains a high level of safety awareness; and performs related work as required.

May be required to wear and use applicable Personal Protective Equipment consistent with state mandates.

Performs related work as required.

JOB RELATED AND ESSENTIAL QUALIFICATIONS

Knowledge of:

The occupational hazards and safety precautions related to the operation of mechanical/electrical equipment.

Water treatment plant operations and the materials, methods (basic chemistry, math and laboratory formulas), tools, and equipment used in water treatment.

Operation of pumps, motors, and appurtenances of the plant.

Applicable state and federal regulations.

Basic computer operating systems, including MS Word and MS Excel.

Safety principles and practices related to operation of a major water treatment facility.

Principles of customer service.

Skill to:

Use tools necessary to operate and maintain plant equipment.

Collect samples, which are representative of various plant flows and unit processes.

Operate a motor vehicle safely.

Ability to:

Follow oral and written instructions.

Work well with others in a team environment.

Complete work within an assigned time frame.

Utilize a variety of hand tools in accordance with safety principles.

Perform mechanical repairs and manual labor work in outdoor weather conditions.

Perform math calculations related to water works.

Interpret and maintain records of laboratory tests.

MINIMUM QUALIFICATIONS

High School Diploma or equivalent.

AND

Two (2) years of full-time work experience in the testing, cleaning, maintenance, inspection, repair, installation, replacement, construction, distribution and operation of water systems or two (2) years of full-time work experience operating a groundwater or surface water treatment plant that shares equivalent State of California classification with the City of Fresno.

AND

Possession and continued maintenance of a valid Water Treatment Operator Certificate, Grade T3, from the State Water Resources Control Board at time of appointment.

Special Requirement(s):

Possession and continued maintenance of a valid California Driver's License at time of appointment.

Due to the nature of the work environment, the incumbent is required to participate in a medical monitoring program to ensure respiratory fitness for using required respiratory equipment.

APPROVED: (Signature on File)
Director of Personnel Services

DATE: 09/28/2020

NEW: JTC:scm: 9/28/2020