

## **SENIOR WATER TREATMENT PLANT OPERATOR**

### **DEFINITION**

Under general supervision, performs and participates in the operation and maintenance of surface water treatment facilities and equipment on an assigned shift.

### **SUPERVISION RECEIVED/EXERCISED**

Receives supervision from a manager or designee.

### **DISTINGUISHING CHARACTERISTICS**

Senior Water Treatment Plant Operator is the advanced level class responsible for performing technically complex work in the operation of surface water treatment facilities. Incumbents exercise considerable independent discretion and judgment in matters related to work procedures and methods. Individuals at this level are expected to become fully knowledgeable of the assigned area, learn the full range of maintenance and repair functions. Positions at this level require demonstrated ability to perform the most advanced functions related to the maintenance and repair of equipment at water treatment/production facilities, such as performing routine and non-routine maintenance on chemical feed equipment, pumps, motors and valves, and troubleshooting equipment as necessary. This class is to perform as a Shift Operator. Work hours in this classification vary and include being subject to 24 hour emergency call back working holidays and weekends. Depending upon assignment, this class may provide lead direction over Water Treatment Plant staff. The incumbent may be assigned to work any shift, weekends and holidays.

### **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, such as, the chemical feed systems, pumps, motors, and mixers.

Assists in bulk chemical deliveries.

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 facilities and roads at the facility.

Assists in training new operators.

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

Operates a variety of light vehicles and equipment.

Works as a shift operator.

Assists in the preparation of plant and laboratory reports.

Gives facility tours to public.

Responds to inquiries regarding water quality.

Orders chemical as needed to maintain adequate supply.

Maintains a high level of safety awareness.

May be required to wear and use applicable PPE consistent with state mandates.

Performs other related duties as assigned.

## **JOB RELATED AND ESSENTIAL QUALIFICATIONS**

### **Knowledge of:**

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.

Computer skills necessary to complete assigned work.

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

Principles of customer service.

**Skills to:**

Safely utilize tools necessary to operate and maintain plant equipment.

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

**Ability to:**

Perform preventive maintenance procedures.

Perform testing and sampling procedures.

Follow oral and written instructions.

Complete emergency response training and perform in emergency situations.

Operate a computer.

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.

Perform confined space entry.

Perform manual labor work in outdoor weather conditions.

Perform advanced mathematical and algebraic computations.

Complete required training.

Perform the laboratory tests required in the analysis of water.

Interpret and maintain records of laboratory tests.

**MINIMUM QUALIFICATIONS**

HS Diploma or GED completion;

**AND**

Three 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.

**OR**

Three years of full-time work experience in the testing, cleaning, maintenance, inspection, repair, installation, replacement, construction, distribution and operation of water systems;

Possession and continued maintenance of a valid Class "C" California Driver's License.

Possession at time of appointment and continued maintenance throughout entire term of employment in this class, of a valid Water Treatment Operator Certificate, Grade T3, issued by the California State Water Resources Control Board. Failure to maintain the valid certification shall be cause for termination from this class.

**NECESSARY SPECIAL REQUIREMENTS**

Depending on assignment area: 1) may be required to obtain and maintain a valid Commercial Class "A" or "B" California Driver's License with appropriate endorsements for entire term of employment.

**SPECIAL CONDITIONS:**

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: 8/9/2017

NEW: 8/1/17  
REVISED: 9/22/17