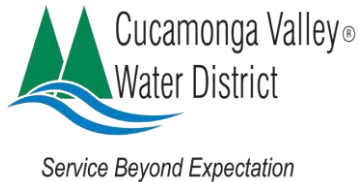


# WATER TREATMENT PLANT OPERATOR I/II



Job Status: Non-Exempt  
Date Adopted: 10-2001  
Date Modified: 03-16-2023

Safety Sensitive Position

*Class specifications are intended to present a descriptive list of the range of duties performed by employees in the class. Specifications are not intended to reflect all duties performed within the job.*

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## DEFINITION

Under supervision, operates one or more water treatment plants on an assigned shift; performs related maintenance-oriented tasks, keeps records, and prepares reports; and performs various tasks relative to assigned area of responsibility.

## DISTINGUISHING CHARACTERISTICS

*This series class specification defines and describes the nature and levels of work performed in the Water Treatment Plant Operator job series.*

**Water Treatment Plant Operator I** is the entry-level in the Water Treatment Plant Operator series. At this level, incumbents learn and perform a limited range of less complex or specialized work tasks, preventive maintenance, and quality assurance/quality control (QA/QC) under closer supervision. At this level, incumbents function as a T2 Shift Operator as defined in applicable state drinking water regulations.

**Water Treatment Plant Operator II** is the experienced, journey-level in the Water Treatment Plant Operator series. At this level, incumbents perform the full range of tasks common to the classification series under less supervision while exhibiting initiative, discretion, and independent judgment within established guidelines. At this level, incumbents function as a T3 Shift Operator as defined in applicable state drinking water regulations.

## SUPERVISION RECEIVED AND EXERCISED

Direct supervision is received from the Operations Supervisor (Water Treatment Plant) and/or Operations Manager (Water Treatment Plant).

Technical or functional work direction may occasionally be provided to Water Treatment Plant Operators I/II by the Lead Water Treatment Plant Operator.

## ESSENTIAL AND MARGINAL FUNCTION STATEMENTS

*Essential and other important responsibilities and duties may include, but are not limited to, the following:*

### Essential Functions:

- I. Makes rounds of treatment facilities several times during an assigned shift to check, monitor and inspect plant operations; reviews and documents console readings, feed rates, water storage levels, and other operational information displayed on gauges, dials, graphs, and other instrumentation; performs and records related mathematical calculations.

## **Water Treatment Plant Operator I/II**

### ***Essential Functions (continued)***

2. Takes grab samples and performs routine water quality laboratory tests; prepares water samples for shipment to outside laboratories for more extensive tests and keeps related records.
3. Operates and adjusts plant pumps, motors, feeders, and other equipment to maintain and enhance the efficiency of plant operations; makes flow and chemical feed changes as necessary; manually backwashes filters.
4. Mixes and adds chemical treatments; ensure adequate chemical application according to regulations and guidelines; loads and unloads materials and supplies; assists in storing and transferring chlorine and other hazardous chemicals.
5. Calibrates and performs preventive maintenance on plant monitoring equipment and chemical feed systems; flushes and cleans turbidimeters; diagnoses and performs minor repairs on plant electrical and mechanical equipment.
6. Prepares and maintains plant production data such as water flow and chemical usage; monitors and reports on plant performance data such as measures of dissolved solids and chlorine residual.
7. Visits unmanned treatment facilities on a scheduled or as-needed basis to monitor, adjust or execute plant operations; monitors safety and security at unmanned sites during visits.
8. Compiles and enters plant operations and water quality data into computerized record systems for eventual use in required reports to regulatory agencies.
9. Respond to emergencies and problems after hours and on weekends as directed within a thirty (30) minute response time to the Lloyd W. Michael Water Treatment Plant.
10. District employees are expected to work overtime, weekends, evenings, and holidays as required to accommodate the District's needs and respond as a Disaster Emergency Service Worker.
11. Regular attendance at the work site.

### **Marginal Functions:**

1. Conducts plant tours and explains operating procedures to the public or visitors.
2. Performs related duties and responsibilities as required.

## **KNOWLEDGE, SKILLS, AND ABILITIES**

### ***Knowledge of:***

Principles and practices of surface water treatment plant operation.  
Federal and State laws and regulations governing treatment plant operation and water quality standards.  
Characteristics of chemicals used in water treatment processes.  
Operational mathematics, including calculation of chemical dosing and water flow rates. Basic laboratory testing methods and mechanical, electrical, and hydraulic principles.

## Water Treatment Plant Operator I/II

### **Skill in:**

Water treatment plant operating consoles and personal computers.  
 Use of hand and power tools.  
 Operation of loader, tractor, and hoist.

### **Ability to:**

Learn and operate water treatment plant equipment.  
 Diagnose plant operating problems and make effective decisions to resolve them.  
 Read meters and gauges accurately.  
 Perform physical and chemical tests on water samples and accurately record results. Organize and prioritize work during an assigned shift.  
 Perform maintenance and repair of plant equipment and devices.  
 Respond appropriately under pressure and exercise sound judgment.  
 Keep accurate records and prepare clear reports.  
 Understand and carry out oral and written instructions. Communicate clearly and concisely, both orally and in writing.  
 Establish and maintain cooperative working relationships with those contacted during work. Maintain physical condition appropriate to the performance of assigned duties and responsibilities.  
 Maintain mental capacity, which allows for making sound decisions and demonstrating intellectual capabilities.  
 Maintain effective audio-visual discrimination and perception for making observations, communicating with others, reading, writing, and operating assigned equipment.

### **REQUIRED QUALIFICATIONS**

*Any combination of experience and training that would likely provide the required knowledge and abilities qualifies. A typical way to obtain the knowledge, skills, and abilities would be:*

<b>Job Title</b>	Water Treatment Plant Operator I	Water Treatment Plant Operator II
<b>Experience</b>	<ul style="list-style-type: none"> <li>One (1) year of experience operating a water treatment facility and/or water distribution system.</li> </ul>	<ul style="list-style-type: none"> <li>Two (2) years of experience operating a water treatment facility.</li> </ul>
<b>Education/Training</b>	<ul style="list-style-type: none"> <li>Equivalent to a High School Diploma.</li> </ul>	
<b>Required License/Certification</b>	<ul style="list-style-type: none"> <li>Possession of a valid D1.</li> <li>Possession of a valid T2.</li> <li>Successfully pass the T3 exam within one (1) year of appointment.</li> </ul>	<ul style="list-style-type: none"> <li>Possession of a valid D2.</li> <li>Possession of a valid T3.</li> </ul>
<b>Desirable Degree/License/Certification</b>	<ul style="list-style-type: none"> <li>Valid D2.</li> <li>Valid T4.</li> </ul>	<ul style="list-style-type: none"> <li>Valid D3.</li> <li>Valid T4.</li> </ul>
<b>DMV Class</b>	<ul style="list-style-type: none"> <li>Possession of a valid California Class C driver's license and a satisfactory driving record.</li> </ul>	

## **Water Treatment Plant Operator I/II**

### **PHYSICAL DEMANDS AND WORKING ENVIRONMENT**

*The physical demands and working environment demands described here are representative of those that must be met by an employee to successfully perform the essential functions of this class. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential job functions.*

#### **Environment:**

Water treatment plant and field environment; exposure to noise, dust, grease, fumes, gases, potentially hazardous chemicals, electrical energy, and inclement weather conditions, including hot, cold, wet, and/or humid conditions; work around water; work on slippery, uneven, surfaces; work in confined spaces; routinely climb ladders, stairs; regularly work near moving mechanical parts; and work around moderately loud noise levels; incumbents must be available to work variable shifts, including evenings, nights, weekends and holidays.

#### **Physical:**

Incumbents require sufficient mobility to walk, stand, and sit for prolonged periods; occasionally stoop, bend, kneel, crouch, crawl, reach, and twist; push, pull, lift, and/or carry moderate to light amounts of weights; operate assigned equipment and vehicles; ability to verbally communicate to exchange information.

#### **Mental:**

While performing the duties of this class, the employee is regularly required to use oral and written communications skills; read documents or instructions; analyze and solve problems; observe and interpret data or information; use math and mathematical reasoning; learn and apply new information or skills; interact with District staff, other organizations, and customers who may be upset or dissatisfied.

#### **Vision:**

See in normal visual range with or without correction; vision sufficient to read computer screens and printed documents; and to operate assigned equipment.

#### **Hearing:**

Hear in the normal audio range with or without correction.