



Service Beyond Expectation

WATER SYSTEM OPERATOR I/II

Job Status: Non-Exempt
Date Adopted: 11-2001
Date Modified: 08-01-2023

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.

DEFINITION

Under supervision, performs a wide variety of manual and semi-skilled tasks involving the installation, construction, maintenance, and repair associated with booster pumps, pumping stations, reservoirs, and domestic water wells; performs preventative and predictive maintenance on assigned equipment; removes, disassembles, cleans reinstalls and performs repair of pump/motor assemblies, equipment, and components; assists in the diagnosis and performance analysis of water wells and booster stations.

DISTINGUISHING CHARACTERISTICS

Water System Operator I is the entry-level in the Water System Operator series. At this level, incumbents learn and perform a limited range of the less complex or specialized work tasks, under closer supervision, with less latitude for independent action.

Water System Operator II is the experienced journey level in the Water System Operator series. At this level, incumbents perform the full range of tasks common to the classification series under less supervision while exercising discretion and independent judgment within established guidelines.

SUPERVISION RECEIVED AND EXERCISED

Direct supervision is received from the Operations Supervisor (Production) and/or the Operations Manager (Production).

Technical and/or functional work direction may occasionally be provided to the Water System Operator I/II by the Lead Water System Operator.

ESSENTIAL AND MARGINAL FUNCTION STATEMENTS

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

Essential Functions:

1. Operates distribution system to meet water supply, water quality, and energy efficiency goals.
2. Reviews water quality results and calculates blending for Nitrate, DBCP, and other constituents in the water as needed to comply with state and federal water quality standards.
3. Participates in mandatory standby rotation.
4. Operates groundwater treatment facilities.
5. Utilizes automated, remote, and local controls for system operation.

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6. Completes daily rounds of production facilities, including wells, booster stations, and reservoirs; monitors safety and security of sites.
7. Inspects pumps, motors, and other equipment; calculates pump run times and pumping rates and enters data into a computer.
8. Maintains records of chlorine consumption; reads and interprets various chart recorders, gauges, and water meters; makes associated arithmetic calculations and records results.
9. Calibrates and performs preventive maintenance on water quality monitoring equipment and chemical feed systems.
10. Performs preventive maintenance of pumps, motors, regulators, valves, and water meters; repair and replace various defective or worn parts and equipment as needed.
11. Collects grab samples at remote sites; performs various types of field water testing, including chlorine residual; adjusts chemical dosage accordingly.
12. Operates crane to pick up and replace industrial motors; operates other construction equipment and/or hand and power tools needed for work.
13. Performs miscellaneous maintenance tasks periodically, such as weed abatement, debris removal, dirt road repair, and painting.
14. District employees are expected to work overtime, weekends, evenings, and holidays as required to accommodate the District's needs, in addition to responding as a Disaster Emergency Service Worker.
15. Regular attendance at the work site.

Marginal Functions:

- I. Performs related duties and responsibilities as required.

KNOWLEDGE, SKILLS, AND ABILITIES

Knowledge of:

Operation and maintenance of water pumping and distribution systems.
Mechanical and electrical maintenance principles and practices.
Basic chemistry, electricity, and hydraulics.
Water quality monitoring and sampling techniques and methods.
Pertinent laws, codes, and regulations.

Skill in:

Operating a personal computer and related software.
Using hand and power tools.
Operating various pieces of commercial construction equipment.

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Ability to:

Operate pumps, motors, and other water storage and distribution facilities and equipment.
 Calculate flow, volume, detention time, chemical dosage, and pressure.
 Evaluate operational changes such as pressure fluctuations, system demands, and production capacities.
 Troubleshoot operational deficiencies of mechanical equipment.
 Read gauges and meters and correct record results.
 Work independently without direct supervision.
 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 in the course of work.
 Maintain physical condition appropriate to the performance of assigned duties and responsibilities.
 Maintain mental capacity, which allows the capability of making sound decisions and demonstrating intellectual capabilities.
 Maintain effective audio-visual discrimination and perception needed 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 is qualifying. A typical way to obtain the knowledge, skills, and abilities would be:

Job Title	Water System Operator I	Water System Operator II
Experience	<ul style="list-style-type: none"> One (1) year of experience in water distribution system operation and maintenance. 	<ul style="list-style-type: none"> Two (2) years of experience in water distribution system operation and maintenance.
Education/Training	<ul style="list-style-type: none"> Equivalent to a High School Diploma. 	
Required License/Certification	<ul style="list-style-type: none"> Possession of a valid D2, and the ability to obtain, within one (1) year of appointment, a valid D3. Possession of a valid T1, and the ability to obtain, within one (1) year of appointment, a valid T2. 	<ul style="list-style-type: none"> Possession of a valid D3. Possession of a valid T2.
Desirable Degree/License/Certification	<ul style="list-style-type: none"> Valid D4. Valid T3. 	<ul style="list-style-type: none"> Valid D4. Valid T3.
DMV Class	<ul style="list-style-type: none"> Possession of, or ability to obtain within one (1) year of appointment, a valid Class A California Commercial driver's license with a Hazardous Materials endorsement and a satisfactory driving record. 	

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:

While performing the job duties, the employee frequently works in extreme outside weather conditions, in or near road traffic, near moving mechanical parts, and in high or precarious places. The employee is

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frequently exposed to wet and/or humid conditions, vibration, fumes, airborne particles, toxic or caustic chemicals, and the risk of electrical shock. The noise level is frequently loud.

Physical:

While performing the duties of this class, the employee is regularly required to walk; talk or hear in person; sit; climb or balance; stoop, kneel, crouch or crawl; smell; use hands to finger, handle, feel or operate objects, tools or controls; and reach with hands or arms. Employees are frequently required to stand. Employees regularly lift and/or move up to 50 pounds and frequently up to 100 pounds.

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:

Specific vision abilities required by this job include close vision, distance vision, color vision, depth perception, and the ability to adjust focus.

Hearing:

Hear in the normal audio range with or without correction.