

## **WATER SYSTEMS PUMP OPERATOR**

### **DEFINITION**

Under general supervision, to perform maintenance and repair work on the City's water pumps, mains, chlorinators, meters, chemical application devices, pumping, and other related equipment and systems; to operate computers and the SCADA system to perform necessary operations of the water system; and to do related work as required. Serves as Disaster Service Worker. FLSA Status: Non-exempt. Bargaining Group: Miscellaneous Unit.

### **DISTINGUISHING CHARACTERISTICS**

Incumbents in this classification perform necessary functions to meet all local, state, and federal requirements for the safe operation of the pumping and chemical systems while receiving minimal guidance and supervision. Incumbents in this class are subject to twenty-four hour "call out" and standby.

### **REPORTS TO**

Public Works Superintendent, Water Division Supervisor, or as assigned.

### **CLASSIFICATIONS SUPERVISED**

This is not a supervisory class.

### **ESSENTIAL FUNCTIONS**

Installs, operates, maintains, and repairs pumps, booster pumps, electric motors, chlorinators, fluoridation equipment, and other related equipment; maintains, repairs, tests, and installs meters; performs maintenance and makes operating adjustments to the chemical treatment systems and distribution equipment as needed to ensure that chlorine residuals, fluoride residuals, pressures, and water tank levels are maintained properly; examines, regulates, and maintains pressure gauges and switches, automatic valves, remote recorders, testing equipment, meters, and control mechanisms; performs monthly preventative maintenance on chemical pumping and injection systems; tears down and cleans injection pumps, parts, and lines; rebuilds and ensures proper operation; inspects fire extinguishers and eye wash stations; uses a variety of testing equipment and procedures; conducts or oversees well and pump efficiency tests; maintains, adjusts, and calibrates equipment as necessary; cleans and maintains elevated tanks; collects field samples for chlorine and chemical level monitoring; runs analyses on samples to check for proper residual levels; collects water samples to ensure water quality meets all Title 22 requirements of the State of California Department of Health Services; completes work orders, electronic reports, and other related paperwork to meet all governing agency requirements in a proficient manner;

operates backhoe, dump trucks, and other equipment; operates tapping machines; uses a variety of hand and power tools and welding equipment; reads meters and charts ensuring that information is properly recorded; maintains a variety of records and reports related to water distribution system services and operations; analyses and interprets various diagrams, gauges, recording devices, piping systems, and instrumentation diagrams; recognizes unusual, inefficient, or dangerous operating and maintenance conditions and recommends or implements appropriate actions; performs general custodial duties to ensure cleanliness of well sites, buildings, and grounds; responds to customer service calls related to water quality; and operates a variety of electronic equipment including automatic control devices, personal computer, laptop, smart phone, tablet, and SCADA systems.

### **TYPICAL PHYSICAL REQUIREMENTS**

Occasionally sit; frequently stand, walk, stoop, kneel, and crouch; normal manual dexterity and eye-hand coordination; ability to crawl and lift and move objects weighing up to 50 pounds; corrected hearing and vision to normal range; verbal and written communication; use a variety of hand and power equipment and testing equipment used in the utility system maintenance, construction, and operations; use a computer and telephone.

### **TYPICAL WORKING CONDITIONS**

Work is performed outdoors in varying temperatures and weather conditions; some assignments may be performed in a shop or office; exposure to hazardous materials, smoke, gasses, and fumes; exposure to hazards such as moving machine parts and electrical current; continuous contact with other staff.

### **MINIMUM QUALIFICATIONS**

#### **Knowledge of:**

- Operational characteristics of water production systems.
- Principles, methods, and practices used in public works operations, maintenance, and repair of mechanical and electrical equipment and systems related to the City's water production facilities.
- Record keeping and reporting procedures.
- Materials, tools, and equipment used in water production systems maintenance and repair work.
- Principles and practices used in the maintenance and repair of electrical and electronic equipment and systems including control systems, SCADA system, instrumentation, and electric motors.
- Laws, rules, regulations, and environmental requirements applicable to operations and maintenance of water production systems.
- Principles and methods of preventative maintenance including preventive maintenance inspection methods.

- Methods and techniques of performing diagnostic troubleshooting services.
- Safe work practices and procedures.
- Safe storage and handling procedures for chlorine or other hazardous chemicals.
- Water sampling, testing procedures, and basic laboratory principles.
- General principles of water treatment and distribution mathematics.
- Office procedures, methods, and equipment including computers and applicable software applications such as word processing, spreadsheets, and databases.

**Ability to:**

- Perform a wide scope of assignments including the more complex work in the operations, maintenance, and repair of the City's water production facilities including a full range of mechanical, electrical, and electronic maintenance and repair work in inspecting, diagnosing, troubleshooting, maintaining, and repairing equipment.
- Recognize unusual, inefficient, or dangerous operating conditions and take appropriate corrective action.
- Inspect water distribution and treatment systems for proper and safe operating conditions.
- Collect samples.
- Maintain accurate records and reports.
- Compare, count, differentiate, measure, assemble, copy, record, and transcribe data and information.
- Classify, compute, and tabulate data.
- Read and interpret maps, blueprints, and diagrams.
- Use functional reasoning and apply rational judgement in performing diversified work activities.
- Interpret and apply policies, procedures, and standards to specific situations.
- Skillfully use a variety of hand and power tools in the maintenance, testing, and repair of utility systems and equipment.
- Safely drive and skillfully operate equipment and machinery.
- Respond to production system maintenance and repair emergencies.
- Deal tactfully and courteously with the public.
- Establish and maintain cooperative working relationships.

**Training and Education:**

- Equivalent to graduation from high school.
- Specialized training in water distribution and water treatment is desirable.

**Experience:**

- Two (2) years of experience in the operations, maintenance, and repair of electrical and mechanical equipment and systems.
- Experience in the operations and maintenance of municipal water systems is desirable.

**License:**

- Possession of a valid California Commercial Class “B” driver’s license with appropriate endorsements.

**SPECIAL REQUIREMENTS**

- Possession of California Water Distribution Operator Grade 2 certification.
- Possession of California Water Treatment Operator Grade 2 certification.
- Possession of current American Water Works Association (AWWA) Backflow Tester’s certification and Cross Connection Specialist certification, or ability to obtain certifications within six (6) months of appointment.
- Water sampling certificate, or ability to obtain certification within six (6) months of appointment.
- Possession of certifications and licenses to meet federal or state regulations as mandated.
- Possession of valid first aid and CPR certification.
- Possession of, or ability to obtain, appropriate certifications and licenses as designated by the City of Atwater.

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