



THE METROPOLITAN WATER DISTRICT
OF SOUTHERN CALIFORNIA

PUMP PLANT MAINTENANCE OPERATOR II

Group-Section: Water System Operations – Conveyance and Distribution	FLSA Status: Non-Exempt Bargaining Unit: AFSCME	Classification: Pump Plant Maintenance Operator Salary Grade: 36 Job #: TA22
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JOB SUMMARY

This is a journey-level position responsible for performing operational activities at the desert pumping plants, including water flow changes, equipment monitoring and inspection, and equipment maintenance. Other responsibilities include operating, maintaining, and testing domestic water systems within the pump plants and residential facilities. This position also has the responsibility for performing high voltage switching.

SUPERVISION

Received: The supervisor makes work assignment by defining objectives, priorities, and deadlines; and assists employees with unusual situations which do not have clear precedents. Under minimal supervision, ensures that work is performed according to standards, procedures, rules and practices; deviations may be made after consultation with supervisor or lead person. General direction is provided on the tasks to be undertaken with the ability to rearrange work sequences and discriminate between established practices and/or methods. The employee will obtain guidance on the approach to standard circumstances, tasks, and activities through procedures, manuals, rules or common craft practice. A supervisor will provide guidance on the approaches to tasks or activities encountered during nonroutine events.

May receive oversight from the Team, Unit, Section, Assistant Group, or Group Manager.

Given: As a lead, may exercise technical and/or functional direction over assigned staff.

JOB DUTIES

1. Performs operational activities including: performing high-voltage switching operations and safety-related inspections of facilities and systems; handling hazardous materials, maintaining storage areas, and documenting and recording hazardous materials; responding to alarms and diagnosing problems; and implementing corrective actions as needed.
2. Tests and monitors the capabilities, limits, and effectiveness of equipment and subsystems, as well as other mechanical processes and systems directly related to power and water systems, to measure the ongoing effectiveness of those systems and to assure the quality of maintenance and/or improvements. Makes recommendations to supervisor based on the findings of these tests.

3. Performs minor preventive and corrective maintenance functions on auxiliary/ancillary equipment including, but not limited to: Copper Basin chemical feed system; aqueduct pumping plant related systems, processes and facilities; pipelines, aqueducts, canals, siphons, reservoirs, pumps, motors, generators, lubrication and cooling equipment, control and head gate structures and associated equipment/assets; residential facilities; circulation, fire, and domestic water systems, swimming pools, and wastewater systems. Maintains electronic and written station/facility logs.
4. Assists with switching orders. Secures mechanical and electrical equipment in preparation for issuing clearances. Participates in issuing clearances and tracking lockout/block out activities.
5. Performs other related and lower level job duties as required.

EMPLOYMENT STANDARDS

MINIMUM QUALIFICATIONS

Education and Experience: High school diploma or GED and 3 years experience as demonstrated by practical application of general and advanced techniques and practices specific to the operation, maintenance and repair of mechanical/electrical systems in a treatment or pump plant, power generation systems and related facilities.

Required Knowledge of: Employees in this classification are at the skilled-level and expected to have the following knowledge: theories and practices of mechanical/electrical systems; safety practices and regulations for operating or working near mechanical/electrical equipment, high voltage systems, hazardous materials, and associated tools and equipment; and using analog and digital instruments to make critical measurements and alignments as part of diagnostic and predictive maintenance.

Required Skills and Abilities to: Utilize mechanical/electrical systems. Perform and/or assist in the planning or development of procedures, manuals, orders and similar documentation related to pump plant operations. Utilize hand and power tools related to the position, and diagnostic equipment to test and monitor equipment and asset condition. Repair, install, and replace equipment necessary to meet water demand and/or capacity. Use and maintain mechanical/electrical tools and equipment traditionally used in pump plants. Apply and guide others on safety practices and regulations for operating or working near mechanical/electrical equipment, high voltage systems, hazardous materials, and associated tools and equipment.

Certificates, Licenses, and Registrations Requirements

Employees in this position are required to obtain and maintain the following certifications and licenses:

Certificates

- California Department of Public Health Water Treatment Operator Certification Grade II
- Metropolitan High Voltage Switching Certification
- Forklift certification
- Manlift certification

Licenses

- Valid driver's license from state of residency equivalent to a California Class C.

Registrations

- None

PHYSICAL DEMANDS, WORK ENVIRONMENT, AND VISION REQUIREMENTS

Expectations of Hours of Service, Emergency and Stand-by Service: Employees in this position shall be required to work off-shift hours and/or stand-by service to address operational needs and emergencies as required. May be required to work extended periods away from the normal reporting location.

Physical Demands: Heavy tasks may require lifting and carrying items weighing up to 50 pounds, with intermittent need to lift and carry materials and/or equipment weighing up to 100 pounds with assistance. Frequently requires pushing, pulling, turning and positioning parts, assemblies, equipment and tools weighing as much as 100 pounds with assistance. May be required to lift and move heavy items with the assistance of others and with lifting devices such as jacks, hoists and cranes of varied types and capacities. Physical effort includes frequent walking, stooping, bending, reaching, standing, kneeling and sitting for long periods of time. May be required to use respiratory filtration and personal protection devices.

Work Environment: Work is performed indoors and outdoors at large pumping plants and conveyance systems under all types of conditions, including extreme temperatures, open and confined spaces ranging from crawl spaces to sub-structures as well as varied types of terrains. Job tasks frequently require working from heights and functioning from lifts, hoists, scaffolds, and cranes over surfaces ranging from earthen materials to concrete, steel and water. Work frequently is conducted in close proximity to high volume/pressurized water, as well as exposed, electrically energized equipment including high voltage systems. The work environment often involves exposure to equipment and tools producing high levels of noise, as well as potentially dangerous materials, chemicals, and machinery that require careful adherence to extensive safety precautions, rules and regulations.

Vision Requirements: Color vision (ability to identify and distinguish colors)