



Title: **MECHANICAL MAINTENANCE WORKER**

Salary Code: 15  
Effective Date: 11/01/10  
FLSA Designation: Nonexempt

GENERAL DESCRIPTION

Under the general supervision of the Senior Mechanical Maintenance Worker, performs and may direct a crew performing construction, maintenance, fabrication, and repair work on water distribution and drainage systems and related equipment. Mechanical Maintenance Worker is a skilled level classification.

EXAMPLES OF WORK PERFORMED

The information listed below is meant to serve as samples of the job duties and responsibilities for positions in this classification. This list is neither inclusive nor exclusive, but indicative of several types of duties performed.

1. Troubleshoots, disassembles, diagnoses, repairs, reassembles, and assists in manufacturing parts for vertical and horizontal pumps; butterfly, check, gate, and air valves; water delivery meters; traveling water screens; electrical and hydraulic components of valve actuators; and other mechanical facilities.
2. Implements power and water pumping schedules of the Pleasant Valley Pumping Plant to accommodate District delivery demands.
3. Inspects, removes, and reinstalls vertical pumps up to 30 inches, 20-inch horizontal pumps, motors varying in size up to 7,000 HP, gate and check valves up to 24 inches, traveling water screens up to 40 feet tall; and inspect, repair, replace or upgrade butterfly valves up to 54 inches pressure-reducing valves up to 8 inches in diameter, sleeve valves up to 24 inches, gate valves check valves and air release valves.
4. Issues and receives safety clearances and performs high voltage switching at the Pleasant Valley Pumping Plant facilities and switchyard based on procedures from the U. S. Bureau of Reclamation and Western Area Power Administration.
5. Operates two-axel dump truck, a two-axle truck with pump trailer, tractor with front-end loader, mechanical trash rake, truck-mounted folding or telescoping cranes up to 8-ton capacity, 20-ton bridge crane, 4-ton mono rail crane, hand and power tools, and portable equipment depending on assignment.
6. Operates, inspects, maintains, troubleshoots, and overhauls large pumps (230 cfs), motors (7000 HP), switches, valves, (up to 54 inches), and canal check structures and turnouts from unit control panels or remotely from a control center (the Pleasant Valley Pumping Plant).
7. Reads piezometers and stress meters, as required at the Pleasant Valley Pumping Plant.

## MECHANICAL MAINTENANCE WORKER

Page 2

8. Balances vertical pumps by stress relieving, shimming, trimming, filing, counter-weighting and dynamic balancing.
9. Operates pumps and canal check stations manually when necessary.
10. Uses arc welding, brazing, and torch-cutting equipment.
11. Sandblasts and applies protective coatings and molecular materials.
12. Utilizes procedures for confined space entry, the use of hazardous materials, and crane and heavy equipment safety.
13. Operates forklift and material handling equipment.
14. Assists in the development and implementation of maintenance programs for pumping plants.
15. Assists a Machinist in the set-up, operation, and maintenance of a variety of metalworking machines.
16. Assists the Pipe Fitter with fabricating fittings and piping.
17. Performs other duties as assigned.

### CLASSIFICATION REQUIREMENTS

Education and Experience: Any combination of equivalent education and experience that has led to the acquisition of the knowledge required by the position. A typical way of acquiring the knowledge would be:

Completion of the twelfth grade **and** four (4) years of experience performing a variety of duties related to the mechanical maintenance of vertical and horizontal pumps or a large pumping plant facility; or any combination thereof.

Note: One (1) year experience as an Operations and Maintenance Trainee with Westlands Water District will substitute for two (2) years of the required experience.

#### Knowledge of:

- The National Electrical Code and relevant Electrical Safety Orders of the California Division of Industrial Safety.
- The operation of folding or telescoping truck-mounted cranes up to one-ton capacity and overhead shop cranes up to 20-ton capacity.
- The operation and maintenance of electrical recording instruments and pneumatic and hydraulically operated valves and controls

## **MECHANICAL MAINTENANCE WORKER**

Page 3

### Knowledge of: (continued)

- Operating criteria for the Pleasant Valley Pumping Plant.
- Load lifting and rigging techniques.
- Reading maps and interpreting electrical and engineering drawings, diagrams, sketches, plans and specifications.
- The operation of electrical arc and gas welding equipment.

### LICENSE, CERTIFICATE, OR CREDENTIAL

Depending on assignment, must be certified by the National Commission for the Certification of Crane Operators (NCCCO) within twelve (12) months of assignment.

Other: Possession of a Grade T1 Water Treatment Operator Certificate and Grade D1 Distribution System Operator Certificate issued by the California Department of Public Health may be beneficial to obtain.

### SPECIAL REQUIREMENTS

Depending on assignment, training in safety clearance procedures and ability to perform high voltage switching at the Pleasant Valley Pumping Plant facilities may be required to be obtained within twelve (12) months of assignment.

### WORKING CONDITIONS

- Heavy lifting up to 100 pounds.
- Use hazardous materials.
- Work in all kinds of weather.
- Possess physical characteristics to perform the critical and important duties of the job, including the ability to climb stationary ladders up to 100 feet in height, work suspended above ground level (approximately 45 feet) in a bosun chair or aerial lift, and work in confined spaces, such as in excavations (approximately 20 feet below ground level), buried dewatered pipelines and manifolds (ranging in size from 3 feet to 13 feet in diameter), and dewatered sumps and turnout facilities (approximately 30 feet below ground level).
- Respond to emergency calls on a 24-hour-day basis.

### STANDARD REQUIREMENTS

- Possession of a valid Class C California Driver's License with a driving record acceptable to the District's automobile insurance provider is required.
- Depending on assignment, possession of a valid Class A California Driver's License with air brake endorsement, or a Class B California Driver's License, must be obtained within twelve (12) months of assignment along with a driving record acceptable to the District's automobile insurance provider.