

NEVADA IRRIGATION DISTRICT

Job Description

Job Title:	Senior Hydroelectric Maintenance Technician	Reports To:	Hydroelectric Manager
Salary Range:	B77	Approved by Board of Directors:	07/25/2018
FLSA Status:	Non-exempt	Unit:	Field
<i>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.</i>			

Definition

To organize, assign, and review the work of assigned personnel engaged in semi-skilled and skilled work in the construction, installation, maintenance and repair of District hydroelectric plants, canals, reservoirs, and related facilities. Complete troubleshooting and repair duties associated with the District's hydroelectric facilities; to perform duties requiring specialized knowledge; and to provide administrative support to assigned supervisor.

Distinguishing Characteristics

This is the advanced journey level in the Hydroelectric Maintenance Technician series. Positions at this level are distinguished from other classes within the series by the level of responsibility assumed, complexity of duties assigned, independence of action taken, by the amount of time spent performing the duties, and by the nature of the public contact made. Employees perform the most difficult and responsible types of duties assigned to classes within this series, including providing technical and functional supervision over assigned personnel and ensuring the proper and safe maintenance and repair of District facilities. Employees at this level are required to be fully trained in all procedures related to assigned areas of responsibility.

Supervision Received and Exercised

Receives general supervision from the assigned supervisor.

Exercises technical and functional supervision over assigned personnel.

Essential Functions Statements

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

1. Plan, prioritize, and review the work of staff assigned to a variety of semi-skilled activities related to the construction, installation, maintenance and repair of District facilities including powerhouses, water conveyance and District right of ways.
2. Develop schedules and methods to accomplish assignments ensuring work is completed in a timely and efficient manner.
3. Participate in evaluating the activities of staff, recommending improvements and modifications.
4. Provide and coordinate staff training; work with employees to correct deficiencies.
5. Conduct tailgate safety meetings to ensure that all safety procedures, including but not limited to, confined space, fall protection, and hazardous materials are adhered to.

6. Maintain detailed records and reports of maintenance activities; maintain maintenance schedules.
7. Form and pour concrete for the construction and repair of foundations, flumes, dams; perform the most complex carpentry repairs to overhead wooden flumes and related facilities.
8. Assist in the repair and maintenance of powerhouses; independently perform related routine powerhouse maintenance tasks.
9. Safely operate equipment over snow such as snowmobiles and snow cats. Helicopter flights may be required for inspections and completion of tasks.
10. Perform skilled welding, cutting, brazing and soldering techniques using shielded metal arc welding (SMAW), gas tungsten arc welding (GTAW), gas metal arc welding (GMAW), and oxy acetylene for welding repairs to facilities and construction related equipment.
11. Perform preventative and corrective maintenance associated with water conduits, hydroelectric powerhouses, including mobile and heavy equipment.
12. Clear trash racks and remove fallen trees and debris from canals, lakes and roads. Remove vegetation, clear trees, and maintain District right of ways.
13. Perform carpentry, plumbing, welding, and other maintenance duties in support of hydroelectric facilities.
14. Follow procedures and ability to safely work in electrical substations while wearing appropriate arc rated clothing and personal protective equipment (PPE).
15. Identify equipment needs for assigned work; check equipment for safe handling and use, and deliver to and return equipment from work sites, ensuring compliance with transit requirements.
16. Perform complex rigging duties for all types of repairs and installations, ensuring safe and proper use of equipment.
17. Assist with the development and modification of the preventative maintenance schedule.
18. Estimate time, materials and equipment required for assigned jobs; order equipment, materials and supplies necessary.
19. Perform the most difficult civil work related to the installation, maintenance, troubleshooting and repair of District hydroelectric facilities.
20. Build and maintain positive working relationships with co-workers, other District employees and the public using principles of good customer service.
21. Perform related duties as assigned.

Qualifications

Knowledge of:

- Principles and practices of technical and functional supervision.
- Methods and techniques used in evaluating site conditions for safe and effective equipment operation.

- Advanced construction practices, tools and materials used in the repair and maintenance of hydroelectric facilities.
- Proper application of and safe use of a variety of hand tools, power tools, and welding equipment.
- Pertinent Federal, State and local laws, codes and regulations.
- Basic record keeping procedures.
- Modern office equipment including use of applicable computer applications.

Ability to:

- Provide technical and functional supervision over assigned staff; effectively train staff.
- Operate and use light to heavy construction equipment related to the construction, maintenance and repair of District hydroelectric facilities.
- Perform the most complex duties related to construction and maintenance tasks associated with the District's hydroelectric facilities.
- Perform inspection of and maintenance work on construction equipment and tools.
- Perform heavy manual labor for extended periods.
- Work at heights using fall protection and appropriate PPE.
- Operate and use modern office equipment including a computer and applicable software.
- Establish and maintain effective working relationships with those contacted in the course of work.
- Communicate clearly and concisely, both orally and in writing.

Responsibility to:

- Obey safe work practices, procedures, and regulations including wearing protective equipment and safety devices.
- Operate equipment in a careful and safe manner.
- Acknowledge the use of safeguards by other employees.
- Report any removal, displacement, damage, destruction, or tampering of safety devices, safeguards, notices or warnings.
- Report any safety risks or hazards to your supervisor or other management personnel.
- Report to your supervisor or other management personnel any work assignment that you feel would require you to perform the work in an unsafe manner.

Experience and Education Guidelines

Any combination of experience and education that would likely provide the required knowledge and abilities is qualifying. A typical way to obtain the knowledge and abilities would be:

Experience:

Two years of responsible journey experience similar to Hydroelectric Maintenance Technician II with the Nevada Irrigation District.

Education:

Equivalent to completion of the twelfth grade supplemented with industrial or construction maintenance coursework, apprenticeship or certification.

License and Certificate:

Possession of a valid California Class A driver's license.
 Possession of certification as a Certified Crane Operator.
 Possession of certification as a forklift operator.

Working Conditions

Environmental Conditions:

Work is performed in an outdoor environment on a year-round basis subject to outdoor weather conditions including extreme heat and cold and to wet, humid conditions, fumes and/or airborne particles. Duties may be performed near moving mechanical parts and on slippery and uneven surfaces with exposure to toxic or caustic chemicals and risk of electric shock.

Physical Conditions:

Essential functions may require maintaining physical condition necessary to sit while driving a piece of equipment; stand and walk while performing maintenance activities; bend and twist to adjust equipment; kneel and squat to review work; climb ladders or climb up on to heavy equipment to begin operations; perform simple and power grasping, pushing, pulling, and fine manipulation; and lift or carry weight of 75 pounds or less; push, pull or torque up to 150 pounds.

Mental Conditions:

Essential functions may require maintaining mental condition necessary to know and understand operations and maintenance activities and observe safety rules; intermittently, analyze problem equipment; identify safety hazards; locate equipment; interpret work orders; remember how to operate equipment; explain job to other employees; handle conflict.