

UNION JOB DESCRIPTION

TITLE: Generation Constructor Trainee

DEFINITION:

Under the direction of the Generation Superintendent or Generation Journeyman classifications, performs routine maintenance and repair and observes the condition of the physical facilities, surrounding grounds and equipment at the Jackson Hydroelectric Project and recreation sites, and other generation facilities.

DISTINGUISHING CHARACTERISTICS:

This position is distinguished from the Generation Unit Maintenance Helper classification in that this classification prepares the successful candidate for the more complex work within the Generation Unit, and eligibility to move in to a Generation Unit Journey level classification. This position is a step progression position with more responsibility assigned as experience is gained. Progression through each step does not require a bid, but is contingent upon satisfactory job performance, completion of related class/coursework, training, etc., and approval by the Generation Constructor Trainee Committee. Upon completion of the last step, the trainee will be placed in the Generation Journeyman classification (i.e., electrical or mechanical).

BASIC RESPONSIBILITIES:

1. Operates all types of District equipment including chipper, backhoe, winches, booms, cranes, air compressors, dump trucks, small cranes, jack hammers, compactors, aerial lifts, puller, digger/derrick, forklift, skid steer, chain saw, metal welding and cutting equipment, and high pressure washers.
2. Drives District vehicles and transports loads with or without trailers in tow.
3. Polices District property and facilities for debris, refuse, etc. which has been left by the public. Performs debris removal as needed in order to maintain the appearance of the generation project(s) and recreation sites. Keeps grounds free of debris such as leaves and garbage.
4. Performs landscaping duties around generation project(s), including but not limited to, mowing, edging, weed eating, hauling and laying beauty bark, gravel, sand, etc, falling trees, operating chain saw and other associated equipment.
5. Repairs minor physical damage to facilities and related items including, but not limited to, painting, restoring and/or fabricating fences and road gates, restroom doors, picnic tables, etc.
6. Cleans and unplugs ditches and road culverts. Clears downed trees and limbs on project roadways using a chainsaw and vehicle mounted winch.
7. Observes condition of operating equipment such as diesel electric generator and adds oil if necessary. Performs walk through of powerhouse(s) looking for abnormal conditions.
8. Monitors and cleans screens and trash racks at generation facilities.
9. Maintains easements and rights-of-way at generation project(s) using tractor mounted mower and articulated boom arm to mow and cut away grass, small trees, limbs and brush. Maintains tractor, mounted mower and boom arm, performing maintenance and minor repairs as needed.
10. Responds to public inquires including such items as directions, use of recreation sites, etc. in a courteous manner. Advises public of watershed usage rules and regulations. Reports violators to supervisor or appropriate law enforcement agency.
11. Assists various Generation staff with associated duties as assigned, including mechanical, electrical, or operator duties under a Journeyman's supervision.
12. Performs other related duties as assigned.

MINIMUM QUALIFICATIONS:

Knowledge of:

- Basic hand tools and their appropriate use.
- Operation of tractor mower and associated parts.
- Chain saw operation.
- General responsibilities and tasks performed by operations & maintenance personnel in a typical hydro plant or generation facility.
- First Aid and CPR methods.

Ability to:

- Physically perform job duties and ability to use tools and equipment of the trade.
- Ability to drive and operate various District and contracted vehicles and equipment, including boom truck, backhoe, front bucket, booms, small cranes, tractor mower, chipper, and other associated equipment.
- Work outdoors in varying weather conditions.
- Use proper radio procedures with District dispatchers and generation staff.
- Understand and follow directions; ability to work independently.
- Communicate effectively both orally and in writing and work cooperatively with all levels of the organization, other agencies and customers.
- Demonstrate mechanical and/or electrical ability.
- Apply First Aid and CPR methods as needed.
- Learn and apply the District's Safety Rules, Collective Bargaining Agreement, policies, procedures, and directives.

Education/Experience:

- High school diploma or equivalent.
- One (1) year experience working at a generation facility performing routine maintenance and repair of the physical facilities, surrounding grounds and equipment, or equivalent.

License/Certificates:

- Valid Washington State Driver License.
- Valid Washington State Commercial Driver License (Class A).¹
- Valid CPR certificate.
- Valid First Aid Certificate.
- Must successfully pass Generation Unit qualification tests on identified equipment and vehicles (boom truck, backhoe, front bucket, booms, and small cranes). Boom and crane training to meet maintenance work requirements.

¹Note: CDL is not required for the testing process, but is required on the first day of employment.

Steps 1 through 8:

Knowledge Gained:

- Fundamentals of electricity, standard electrical drawing code and numbers and basic mathematics.
- Standard operating procedures for hydroelectric project(s) under routine and emergency conditions, including emergency action plans and oil spill response.
- Gantry crane operation.
- Vibration monitoring and analysis.
- All personal and equipment safety requirements.
- Related computer equipment and software.
- Actual and theoretical operation of hydroelectric project operations, features, and equipment.
- Basic hydraulic principles.
- Major items of equipment, including intake structure, penstock, turbine, main plant controller, generator, bearings, transformers, spillway, auxiliaries, switchyard equipment, etc.

Knowledge Gained: (continued)

- Operating license(s) and environmental/regulatory requirements, including instream flow and down ramping rate compliance.
- Standard mechanical concepts and theories and mechanical drawing code numbers.
- Clearance procedures.
- Operating routines, i.e., start-up, shutdown, dewatering, etc.

Ability to:

- Operate power generating units, control panels, computer terminals and auxiliary equipment.
- Operate the gantry crane.
- Recognize and take appropriate action during emergency situations.
- Communicate effectively with plant personnel, dispatchers, and outside agencies.
- Analyze equipment malfunctions and resolve problems.
- Ability to climb stairs in excess of 200 feet.
- Ability to work in elevated positions under the supervision of a Journeyman.

WORKING CONDITIONS:

- Duties are performed in a variety of environments both indoors and outdoors and in remote wilderness areas.
- Work is physical in nature.
- Must be able to lift and carry heavy equipment and materials in excess of 65 lbs.
- Must be able to operate hazardous equipment such as chain saw to fall trees.
- Frequent walking is required to inspect basin and project(s).
- Work is performed independently and alone, with infrequent face-to-face contact with other employees, and may only have contact with other District staff via a radio.
- Incumbent is exposed to varying weather conditions and may be exposed to wild animals.