



JOB DESCRIPTION

Hydroelectric and Conveyance Relief Operator

Salary Range: Hydroelectric and Conveyance Relief Operator
\$24.32/hour to \$30.37/hour, plus benefits

Senior Hydroelectric and Conveyance Relief Operator
\$30.37/hour to \$37.92/hour, plus benefits

Reports to: Operations and Maintenance Superintendent
and Conveyance Supervisor

Employee Status: Full-time with revolving schedule/flex*

**The job requires 40 hours/week in four, 10-hour days with additional hours assigned periodically*

SUMMARY:

- Under minimal supervision, maintains Utica's water conveyance system that delivers water to irrigation customers, Union Public Utility District, City of Angels Camp and the Murphys and Angels Powerhouses.
- As needed, operate Utica's two hydroelectric powerhouses and control its water conveyance system.
- General knowledge of construction and ability to use a variety of tools.
- Repair and maintain hydroelectric turbines and all mechanical equipment relating to the generation of power.
- Understand and document water flows and power generation.
- Work with others in a tactful, respectful and courteous manner.
- Ability to stay calm and solve problems during stressful situations.
- Be a team player and interact with the public in different situations.

ESSENTIAL DUTIES, including but not limited to:

- Assist with installation, repair and maintenance of water meters and water delivery system devices, including but not limited to, waste gates, trash rakes, siphon systems, and grizzlies.

- Operate and maintain powerhouses.
- Have the ability to start and shutdown turbine units.
- Adjust the plants to water flows on a daily basis.
- Capable of mathematical water flows, adjusting the water delivery system for minimum and maximum flows.
- Report and log all outages and water losses during outages.
- Clean weeds, brush and trim trees.
- Assist with customer needs.
- Read and document water meters.
- Complete logbooks of staff readings, reservoirs, leakage weirs.
- Check fire extinguishers and fire hoses at stations.
- Test dam failure devices and alarms.
- Prepare and submit wildlife mortality reports.
- Clean and lubricate gates and valves.
- Remove debris and rocks from inside the canal.
- Remove any trees and brush from canal and flume.
- Log all spillway usages.
- Regulate reservoirs, diversions and flows to meet operational requirements.
- Proficiency with UWPA's Emergency Action Plan (EAP)
- Maintain defensible space around hydroelectric facilities and conveyance system.
- Check and maintain battery banks.
- Regular foot patrols of all flume and canal systems.
- Report and document end of day activities.
- Patrol Murphys and Angels penstock.
- Employees are to comply with all safety rules and regulations as outlined in the Injury and Illness Prevention Plan.
- Maintain monthly accounts of meters and customers within a delivery area.
- Within six months, must successfully complete operator training
- Participate in lock-out, tag-out processes and implementation.
- Other duties as assigned.

PREFERRED QUALIFICATIONS:

- Mechanical aptitude
- Construction experience
- Past experience operating a power plant
- SCADA knowledge
- Digital control system, programmable logic controller and data logger knowledge
- Knowledge and understanding of high voltage

PREFERRED EDUCATION/EXPERIENCE:

- Three years of construction-related background
- Three years of electrical background.

- Three years of hydroelectric or steam turbine power plant experience.
- Mathematical proficiency.

LANGUAGE SKILLS:

- Reading and writing abilities.
- Must communicate and document daily readings and log book entries.

REASONING ABILITIES:

- Analyze and solve problems in conveyance and operations
- Proficient at time management and taking proactive actions to avoid problems.
- Ability to follow oral and written directions.
- Communicate orally with district staff in face-to-face, one-on-one settings.

CERTIFICATES, LICENSES, REGISTRATIONS:

- Unrestricted California Driver license and maintain adequate driving record.

PHYSICAL DEMANDS:

- Ability to operate Utica's vehicles and equipment including, but not limited to, chainsaws, weed-eaters, winches and a variety of hand tools.
- Must be able to carry, push, pull, reach, and lift equipment and parts weighing up to 50 pounds.
- Stoop, kneel, crouch, crawl, and climb during field maintenance and repair work.
- Stand and walk for extended periods of time.
- Hearing and vision within normal range.

WORK ENVIRONMENT:

- Extreme weather conditions, including but not limited to, wind, rain, sleet, snow, hail, cold and heat.
- At times will work with exposure to dust, dirt, noise and significant temperature changes between cold and heat.

OTHER REQUIREMENTS:

- Capable of working in an office setting.
- Knowledge of office equipment including but not limited to general computer skills, including Microsoft Office Suite.
- Must be able to follow procedures for purchasing and receiving of materials and supplies.