



Kings River Conservation District Job Specification

ELECTRICIAN

Definition

Under general direction of the Maintenance Supervisor or his designee, installs, repairs, and maintains electrical equipment in a hydroelectric generating plant.

Duties and Responsibilities

Essential duties and responsibilities include the following:

- Install, repair and maintain large motors, generators, transformers, circuit breakers and switches up to 230kv.
- Make diagrams and sketches and estimate materials required.
- Troubleshoot malfunctions of electrical systems and diagnose trouble under emergency conditions.
- Install conduit, pull wire and maintain wiring circuits for electrical equipment.
- Test and service storage batteries.
- Maintain records and prepare reports.
- May be required to perform high voltage switching operations of equipment up to 230kv.
- Other duties as assigned.

Employment Standards

Knowledge of:

- Principles, methods, materials, tools and equipment, and the application of electrical theory as used in maintenance, repair and replacement of high voltage electrical systems and equipment used at hydroelectric generating plants.
- Knowledge of National Electric Code and the Electrical Safety Orders of the Division of Industrial Safety.

Ability to:

- Read blueprints and work from plans and specifications.
- Add, subtract, multiply, and divide in all units of measure, using whole numbers, common fractions, and decimals and other mathematics normally required of this trade.
- Interpret a variety of instructions furnished in written, oral, diagram, or schedule form.
- Communicate effectively orally and in writing.
- Analyze situations and take effective action.
- Establish and maintain cooperative working relationships.

Typical Physical Activities

The physical demands described here are representative of those that must be met by an employee to successfully perform the essential functions of this job. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

- Regularly use hands to finger, handle, or feel objects, tools, or controls.
- Reach with hands and arms.
- Stand; walk; climb or balance; and stoop, kneel, crouch, or crawl.
- Occasionally required to sit or stand for periods of time.
- Regularly lift and/or move up to 10 pounds, frequently lift and/or move up to 25 pounds, and occasionally lift and/or move up to 50 pounds.
- Hearing and vision within normal ranges.
- Specific vision abilities required by this job include close vision, distance vision, color vision, peripheral vision, and depth perception.
- May work in outside weather conditions.
- Regularly exposed to high voltage and pressures and moving mechanical parts.
- Occasionally works in high, precarious places.
- Occasionally exposed to wet and/or humid conditions and vibration.

The noise level in the work environment is usually moderate to loud.

Experience and Education

Any combination of education and experience that will provide the necessary knowledge and abilities will be considered acceptable.

A typical way to obtain the knowledge and abilities would be:

Education: Equivalent to completion of the twelfth grade.

Experience: Completion of a recognized apprenticeship as a hydroelectric plant electrician.

or

One year of journeyperson experience performing electrical maintenance and repair work on the heavy equipment used in electrical generating plants.

One (1) year of experience as an operator in an electrical generating plant, with successful completion of related electrical coursework may be substituted for the journeyperson experience.

May be required to maintain a valid vehicle operator's license.

This position is covered by the Memorandum of Understanding with Stationary Engineers, Local 39.