MERCED IRRIGATION DISTRICT

HYDRO ELECTRICAL TECHNICIAN

FLSA STATUS – Non-Exempt
Bargaining Unit – IBEW, Local 1245
Classification Level – Per IBEW Wage Schedule

DEFINITION:

Under the direction of the Hydro Maintenance Supervisor who, without direct supervision, the Hydro Electrical Technician is permanently assigned and regularly performs installation, field testing, and maintenance of protective relay equipment, relay carriers, and supervisory equipment, station apparatus, instruments, remote and local control devices, computer systems and associated wiring. Is required to possess and exercise extensive knowledge of the theory and practical application of trade techniques common and peculiar to maintenance and repair of power system generating plants.

ESSENTIAL FUNCTIONS OF THE POSITION:

As a working technician, performs testing, maintenance, repair and installation of electrical equipment.

The work includes the inspection, repair, and maintenance of a variety of electrical equipment in sub-stations and generating stations; including generators, exciters, voltage regulators, power transformers, oil, air and gas circuit breakers, reactors, capacitors, switches, motors, and related control or auxiliary equipment, using standard types of electrical testing and measuring equipment and hand and power tools.

Installs light systems and conduit.

Checks operation and function of electrical interlocks, auxiliary contactors, starters, various switch gears and station batteries.

Protective relay testing and insulating oil tests.

Plans jobs, makes assignments, arrange for necessary tools, equipment, supplies and support services.

Furnishes necessary instructions and assistance for the successful and timely completion of jobs.

Responsible for accomplishing all aspects of the assigned work in conformance with personnel and equipment safety standards.

Trains personnel.

Prepares work and maintenance schedules.

Prepares reports, and keeps accurate records of repair and maintenance on hydro equipment; uses computer programs for hydro records and related work.

Revises drawings, assists other trades.

Does other project related work as assigned.

Keeps Hydro Maintenance Supervisor and Hydro Manager informed of equipment status and work plans as well as work in progress.

Other duties as assigned.

QUALIFICATIONS:

Education:

- Completion of electrical apprenticeship program or other equivalent training program.

Experience:

- At least two years of journeyman experience and experience in maintenance, repair of equipment and systems similar to that found in the District's Hydro-Electric Project.

Ability to:

- Stand, sit, stoop, kneel, reach, pull, push, pry, swing hand tools, and work from below one's feet to above one's head.
- Use respirator and self contained breathing apparatus.
- Use of safety hats, belts, harnesses, face guards, safety glasses and goggles, protection and other safety equipment where necessary.
- Relate cooperatively with other staff members.

Knowledge of:

- Proficient in the use of computers with minimal familiarization to new software.

Necessary Special Requirements:

- Special certifications/licenses (typically CA Drivers License, but may be others depending upon position.

TYPICAL PHYSICAL DEMANDS (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):

- Must be able to lift and carry 50 lbs. in accordance with safe working practices.
- Climb ladders, climb steel structures, have dexterity to climb in and out of and work in close quarters.

- Have the ability to work at heights, walk in steep or uneven terrain and work outside in all kinds of weather.
- Travels frequently by motor vehicle in the conduct of District business.
- Communicates orally with District employees and the public in face-to-face, one-on-one and group settings.
- Regularly uses a telephone and radio for communication.
- Uses office equipment such as computer terminal, copiers and FAX.
- May sit, stand, or walk for extended periods of time.
- Hearing and vision within normal limits.

Sitting:	Remains in a seated position for up to eight (8) hours per day.
Hands/Arms:	Operates computer for up to eight (8) hours per day.
Lifting:	Lifts equipment and parts up to fifty (50) pounds.
Stooping:	Bends body downward and forward by bending at the knees or waist.
Talking:	Expresses ideas and shares information by means of spoken work in person and by telephone.
Hearing:	Hears well enough to receive communications in person and by telephone.
Vision:	Reads written and video messages for up to eight (8) hours per day. Operate vehicles and office equipment.

PHYSICAL EXAMINATION:

Must pass a physical examination, which includes substance screening, before employment with the District.

SUPERVISION:

The position receives general supervision from the Hydro Maintenance Supervisor.

Employee Signature/Date

Supervisor Signature/Date