

## **HYDRO ELECTRICAL MACHINIST**

### **MERCED IRRIGATION DISTRICT**

#### **HYDRO ELECTRICAL MACHINIST**

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

#### **DEFINITION:**

Under the general direction of the Hydro Maintenance Supervisor, the Hydro Electrical Machinist regularly engages in the performance of precision work with all types of machine tools and is capable of welding and rigging. Performs the duties of an electrician. Engages in repairing, installing and maintaining all types of mechanical and electrical equipment in hydroelectric plants, dams and related facilities; and other duties as may be required. Is governed at all times by current work practices and procedures as established and modified by the District and/or the Hydro Maintenance Supervisor, and assumes responsibility for completion of tasks in a manner that will insure his own safety and the safety of others

#### **ESSENTIAL FUNCTIONS OF THE POSITION:**

Installs, inspects, repairs and maintains turbines, governors, generators, pumps, diesel and gasoline engines, air compressors, fans, air circulation systems, hoisting equipment, penstocks, gates, valves and related or auxiliary equipment as well as vehicles and construction equipment.

In addition, will be required to have the knowledge and capability of performing normal and emergency operating functions at the New Exchequer Hydroelectric Project.

May also be assigned to an operator's shift schedule due to irregular water or plant conditions.

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

Welds using gas and arc equipment.

Operates machine tools such as lathes in the fabrication and repair of metal components.

Uses hand tools.

Operates such equipment as backhoes, light tractors and cranes.

Assists other trades and does other project related work as assigned.

Keeps supervisor informed of work progress in a timely manner.

Assist with maintenance and repair of oil, air and gas circuit breakers.

Keeps accurate records of repair and maintenance on hydro equipment and vehicles, uses computer programs for hydro records and related work.

Other duties as assigned.

## **HYDRO ELECTRICAL MACHINIST**

### **QUALIFICATIONS:**

#### **Education:**

- High School Diploma.

#### **Experience:**

- Journeyman possessing a welding & machining proficiency rating and three or more years of experience in maintenance and repair work on equipment similar to that found in the District's Hydroelectric Project.

#### **Ability to:**

- Use respirators and self contained breathing apparatus.
- Use of safety hats, belts, harnesses, face guards, safety glasses and goggles, safety shoes when required protective clothing, ear protection and other safety equipment where necessary.
- Relate cooperatively with members of the public and District personnel.
- Analyze and organize jobs and make sound decisions for the task assigned.

#### **Knowledge of:**

- Reading and interpreting electrical/mechanical and structural drawings.
- Plumbing and pipe fitting.
- Rigging in the performance of duties.
- Operate overhead cranes, hoists, winches, and mobile equipment.
- Thorough knowledge of safe work practices.

#### **Necessary Special Requirements:**

- Must possess a valid California driver's license.
- At the sole discretion of the District, may be required to reside in MID housing at Exchequer Dam and will be subject to call out for any powerhouse related problems.

**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):

- The job requires standing, sitting, stooping, kneeling, reaching, pulling, pushing, prying, lifting, swinging hand tools and working from below one's feet to above one's head.
- 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.

## HYDRO ELECTRICAL MACHINIST

- 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.  
Operates 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

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Employee Signature/Date

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Supervisor Signature/Date