

JOB DESCRIPTION FORM

Division/Department	Hydro
Location	Gothenburg/Kingsley
Job Title	Electrical / Mechanical Technician
Reports to	Electrical Project Operations Manager or Hydroelectric Operations Supervisor

Control points	Type of position:	Hours <u>40</u> / week
Level I <u>13(5)</u>	☒ Full-time	☐ Exempt
Level II <u>14(5)</u>	☐ Part-time	☒ Nonexempt

POSITION DESCRIPTION

Perform maintenance, troubleshooting and repair work on all electrical and mechanical equipment associated with canal and dam structures, hydro plants and substations. Requires the understanding of basic electrical circuits as well as electrical and mechanical drawings. Perform electrical and mechanical maintenance on generators, turbines and auxiliary equipment located in hydro plants. Analyze problems in electrical and mechanical equipment and determine degree of repair necessary. Work competently and safely around high voltage substation equipment.

EDUCATION AND EXPERIENCE

Level I

- High school degree or equivalent education
- One year of vocational or trade school education in electrical and mechanical maintenance
- Valid Nebraska driver's license

Level II

- High school degree or equivalent education
- Two years of vocational or trade school education in electrical and mechanical maintenance
- Valid Nebraska journeyman (or better) electrical license
- Valid Nebraska driver's license

ESSENTIAL JOB FUNCTIONS

- Provide routine maintenance of electrical and mechanical equipment in the power plants and the water conveyance control systems and other District facilities.
- Install and test electrical equipment including conduit and wiring.
- Install and test mechanical equipment.
- Provide maintenance of or improvements to physical and structural components in the power plants, the water conveyance systems, and other District facilities.

- Maintain high voltage switchman certification and perform those functions.
- Utilize test equipment to perform routine maintenance and to troubleshoot equipment failures
- Understand the association between the supervisory control system and the electrical and mechanical equipment it controls. As directed, maintain communications cables, electronic flowmeters, transducers, PLCs and remote terminal unit equipment associated with that supervisory control system.
- Exercise good judgment and courtesy when in contact with the general public, District personnel or others.
- Perform other duties as assigned.

OTHER POSSIBLE JOB FUNCTIONS

- Act as working lead person of a crew when directed by the Electrical Superintendent, ensure employee productivity and safety
- Responsible for assigned vehicle, work equipment and associated record keeping
- Provide operational support for the hydro-electric generating facilities or the water conveyance facilities.
- Perform water quality monitoring (Kingsley only).
- Answer emergency calls at all times

LIVING REQUIREMENTS

- Must live within the general area of District facilities, as depicted in the attached Exhibit C, to ensure adequate response time to emergency situations
- Kingsley only - Preferred to live in one of the District owned facilities or within 10 miles of the Kingsley Hydro Plant to ensure adequate response time to emergency situations

WORK ENVIRONMENT

- Working hazards are those normally associated in working with electrical panels, switchgear, switchyards, climbing towers, working from scaffolding, and generally those associated with working with electricity and around water.
- Occasional unusual working hours primarily due to emergencies
- Mild work stress associated with time pressures, emergency situations, and/or changes in work priorities
- Occasional uncontrollable interruptions and distractions to planned work
- Strong physical, emotional, and mental stamina required to work long hours under harsh working conditions

PHYSICAL ACTIVITY REQUIRED

LIFTING	Never	Occ	Freq	Cont
10 lbs			x	
11-15 lbs			x	
26-50 lbs			x	
51-75 lbs		x		
76-100 lbs		x		
+100 lbs		x		

SEEING	Never	Occ	Freq	Cont
Near Vision			x	
Far Vision			x	
Color Vision			x	

VERBAL COMMUNICATION			x	
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REACHING	Never	Occ	Freq	Cont
Out			x	
Overhead			x	
Low (below knees)			x	

CLIMBING	Never	Occ	Freq	Cont
Stairs			x	
Ladder			x	
Other		x		

AGILITY	Never	Occ	Freq	Cont
Balancing			x	
Bending Over			x	
Carrying			x	
Crawling			x	
Eye/Hand/Foot Coordination			x	
Grasping			x	
Kneeling			x	
Pulling			x	
Pushing			x	
Sitting			x	
Standing			x	

REVIEWED BY	Personnel Committee & General Manager	Date
APPROVED BY		Title General Manager
DATE APPROVED	12/23/2024	
REVISED DATE		