



Job Description

PCN	08-X003
JOB TITLE	CIRCUIT RIDER TECHNICIAN
LOCATION	ANCHORAGE
RANGE	20
REPORTS TO	08-0231 PROJECT MANAGER
FLSA EXEMPT	No
REVIEWED BY (NAME AND DATE)	ALAN FETTERS OCT 2016
APPROVED BY (NAME AND DATE)	KRIS NOONAN OCT 2016

POSITION PURPOSE: Assist in providing technical assistance and training in rural Alaska on diesel generation systems, alternative energy systems and fuel storage facilities. This position requires frequent traveling to communities throughout the State.

ESSENTIAL FUNCTIONS:

Provide technical assistance to rural Alaska electrical utilities. Work with and advise in person, via phone and internet, local power plant operators in the daily maintenance of their electrical generation systems. Advise them on which spare parts to stock. Instruct them in the diagnosing and replacing parts. Train utility personnel on proper methods of routine engine maintenance and troubleshooting, upkeep of the power plant facilities, electrical service meter installation and meter reading, general safety procedures, use of voltage and ampere meters, record keeping and methods to increase reliability and prevent unscheduled outages. Maintain logs and records of assistance provided to utilities and produce regular and timely reports.

Diagnose system problems in person or by telephone with utility personnel. Provide assistance with: Diesel engine generator sets; Generator control panels similar to Woodward GCP and EasYgen; Switchgear and circuit breakers; Variable frequency drives; Local area network issues; Internet connectivity; SCADA interfaces and PLC operations.

Conduct inspections of electrical and fuel storage facilities. Inspect new construction for compliance with drawings, state and federal codes and standards. Inspect existing systems to determine if compliant to minimum safety standards or pose a threat to life, health and safety. Evaluate local labor and contractors work performance. Produce reports of findings referencing discrepancies and actions for correction.

Other duties as assigned.

PHYSICAL REQUIREMENTS AND POTENTIAL HAZARDS: While performing the duties of this job, the employee is frequently required to sit; use hands or fingers; handle or feel; talk and hear. The employee is occasionally required to bend or twist, squat, kneel and reach with hands and arms. The employee must occasionally lift and/or move up to 50 pounds. Specific vision abilities required by this job include close vision and the ability to adjust focus.

TECHNOLOGY, EQUIPMENT, SYSTEMS, AND TOOLS: Requires basic skills in word processing, database software, email/calendar and general office equipment. Requires advanced skills in local area networking, router setup, Ethernet switches, remote control software and personal computers.

CRITICAL KNOWLEDGE, SKILLS, AND ABILITIES:

- National Electrical Code, National Electrical Safety Code, OSHA, Ohm's Law, Knowledge of principles, practices and current developments of diesel engines, State procurement code, departmental and agency policies.
- Diesel generation mechanics, operation of various of heavy equipment (front-end loaders, digger derricks, dozers, backhoes, compactors), electrical tools, conduit bending, basic carpentry skills, conductor installation and wiring methods, accustomed to working with generation switchgear, understanding of network and internet protocols, ability to diagnose computer and network hardware issues.
- Must work well with local crews, local governments, and completion of remote projects without supervision.

DESIRED QUALIFICATIONS: High school diploma, Electrical apprenticeship with State of Alaska Fitness Card, Practical and theoretical diesel engine experience, Diesel Mechanic/Technician certificate, Electrical Generation System Association Certified Technician.