



CITY OF RICHLAND

CLASSIFICATION TITLE: METER, POWER, & PROTECTION TECH III	JOB #: 2035	AFFILIATION: Affiliated (IBEW)
REPORTS TO: MAINTENANCE & OPERATIONS SUPERVISOR OR DESIGNEE	PAY GRADE: N/A	FLSA STATUS: Non-Exempt

GENERAL SUMMARY:

Under the direction of the Maintenance & Operations Supervisor or designee, operates and maintains electrical revenue metering, substation equipment; performs maintenance, repair, tests, and calibrations on all types of electrical energy metering, including current and potential transformers and related equipment in the shop, on customer's premise, and in City substations; tests, maintains, and calibrates protective relays and performs underground fault locating. Subject to 24-hour callout for emergency situations.

ESSENTIAL JOB FUNCTIONS:

Duties listed are representative of the types of tasks and functions performed by positions of this class of work. Percentage of time and rank of importance of duties are not listed since both will vary by position and work location. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

- Operates and maintains substation maintenance equipment.
- Operates and maintains single phase and polyphase revenue meters.
- Tests, calibrates, and troubleshoots SCADA equipment.
- Performs repairs to load tap changer and regulator maintenance and overhauls.
- Tests, programs, and troubleshoots protection relays, distribution relays, power transformer protection relays, and complex electronic meters.
- Tests and calibrate single phase meters, and two and three element metering.
- Collects, programs and evaluates power system recorders.
- Evaluates and tests distribution and power transformers; makes repairs to and modifies distribution transformers and switches.
- Tests and programs complex electronic meters.
- Locates primary and secondary underground faults using appropriate test equipment to assigned activities.

- Works on the City's advanced metering, relay and substations systems to include repairing and maintaining distribution and substation transformers, breakers, and switches.
- Performs construction and fabrication as needed.
- Performs work from bucket trucks, ladders, lifting devices, and underground vaults using shop apparatus, and City and customer facilities.
- Performs all duties of the MPP Technician II.
- Performs other duties as assigned.

KNOWLEDGE, SKILLS & ABILITIES:

Specific and realistic knowledge, skills, and abilities typically necessary to competently perform this job.

Knowledge of:

- Applicable Federal, State, and local laws, rules, codes, and regulations related to assigned activities.
- WISHA and OSHA safety rules and regulations.
- Transformers, protective relays, SCADA equipment, substation breakers, switches, and maintenance of distribution and substation transformers.
- Relay, meters, or substation maintenance and underground fault locating.
- City's meter, relay, and substation systems.
- Symmetrical components.
- Distribution and power transformer basics.
- Theory and operation of the three types of power circuit breakers.
- Circuit breaker, transformer control, and basic power and distribution protection schemes.
- PT and CT transformers and their circuits.
- Vectoring and mathematics as they apply to protection relaying and revenue metering .
- Different meter bases wiring and installation.
- Meter communication systems and primary metering systems.
- Computers and software including Microsoft Office suite.
- Modern office practices, methods, procedures, and equipment.
- Record-keeping principles, procedures, and techniques.
- Applicable health and safety policy, procedures, and practices.

Skills and Abilities to:

- Learn, read, interpret, apply, and explain rules, regulations, policies, and procedures.
- Follow oral and written instructions.
- Follow health and safety regulations.
- Observe legal and defensive driving practices.
- Operate relay test equipment and software.

- Utilize test equipment including TTR, insulation, voltmeter, recorders, laptops, etc. to assigned tasks.
- Utilize drawings for troubleshooting.
- Connect program, and evaluate power system recorders.
- Understand and read blueprints.
- Perform construction and fabrication of electrical systems.
- Understand substation DC systems.
- Communicate effectively both orally and in writing; comprehend and use English effectively including producing all forms of communications in a clear, concise, and understandable manner to intended audiences.
- Organize and prioritize a variety of projects and multiple tasks in an effective and timely manner; work independently with little or no direction, set priorities, and meet deadlines.
- Use tact, initiative, prudence, and independent judgment within general policy and procedural guidelines.
- Establish, maintain, and foster positive and effective working relationships with those contacted in the course of work.
- Operate a variety of modern office equipment to include, specialized equipment and personal computers in a windows based computing environment using standard or customized software application programs appropriate to assigned activities, including proficiency in Microsoft Office software..
- Provide continuous effort to improve operations, streamline work processes, and work cooperatively and jointly to provide quality customer service.

EDUCATION & EXPERIENCE REQUIREMENTS:

- Three (3) years of experience working as a MPP Tech II, with a demonstrated proficiency of all requirements of the position.

LICENSES, CERTIFICATIONS & OTHER REQUIREMENTS:

- Valid driver's license.

WORKING CONDITIONS

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

Environment:

- Typically performed in the field, which requires travel daily from site to site and checking on construction.

- The position involves work outdoors on a year-round basis and is subject to extreme weather conditions.
- Work requires time at construction sites, which may be dirty and strewn with construction debris.
- May work above or below the ground.
- The noise level in the work environment is usually quiet to moderate, depending on whether in the office and/or on a construction site.
- May be exposed to moving mechanical parts and vehicles within a construction site.
- Employees may interact with upset staff and/or public and private representatives in interpreting and enforcing departmental policies/procedures.

Physical Demands:

- Regular and punctual attendance at the office or other assigned locations.
- Operate a motorized vehicle, which may include inclement weather conditions.
- The position requires the ability to sit, stand, walk, bend, reach with arms and hands, kneel and stretch, occasionally crawling in tight spaces, such as attics and crawl spaces as well as the ability to climb ladders and stairs, ride on platform hoists.
- Must be able to walk through construction sites at all stages of completion, and negotiate uneven terrain.
- Ability to lift, carry, push and pull materials and objects weighing up to 50 lbs. on occasion using proper lifting techniques.
- Manual dexterity of hands and fingers to include, repetitive keyboarding, grasping, and reaching.
- Good vision to read print and a computer screen.
- Ability to hear and speak to communicate in person and over the telephone.

SELECTION GUIDELINES:

The duties listed above are intended only as illustrations of the various types of work that may be performed. The omission of specific statements of duties does not exclude them from the position if the work is similar, related or a logical assignment to the position.

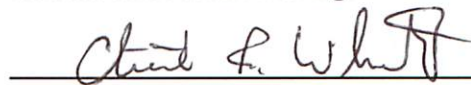
The job classification description does not constitute an employment agreement between the City of Richland and employee and is subject to change by the City as the needs of the City and requirements of the job change.

AUTHORIZATIONS: (For Archive)

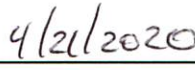
Human Resources Manager



Date



Department Director



Date



City Manager or Authorized Designee



Date