

| PROVO CITY CLASSIFICATION SPECIFICATION-Draft | |
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| Title: Smart Grid Systems Technician | Job Code: 2720 |
| Date: September 28, 2017 | EEO Code: SM |
| FLSA Designation: Non-exempt | Civil Service Status: Covered (UC) |

DEFINITION: This is advanced power systems automation work responsible for supporting the Smart Grid systems infrastructure.

CLASSIFICATION STANDARDS: Positions allocated to this classification are responsible to the Smart Grid Systems Engineer and perform assigned tasks under limited supervision. This classification has a high level of responsibility, complexity of tasks, and broad expertise over more complex and/or multiple Power System communication grids.

ESSENTIAL DUTIES: Conduct performance monitoring, analysis, planning, design, installation, and reliability monitoring of mission critical control systems required to support the Smart Grid defined as Supervisory Control and Data Acquisition, Automated Metering Infrastructure, Distribution Automation, and Demand Response Control Systems and accompanying communications infrastructure; integrate and apply various Smart Grid technologies across the communications grid; provide support for initiatives and applications involving the use of Smart Grid communications infrastructure.

Conduct daily monitoring of the Smart Grid communications network; assist with the daily operation and maintenance of the Supervisory Control and Data Acquisition, Automated Metering Infrastructure, Demand Response, and Distribution Automation Control Systems; perform design and installation of substation communications hardware, fiber, and Wide Area Network radio equipment; terminate and splice single and multi-mode fiber assets; maintain equipment and tools; perform other related duties as required.

MINIMUM REQUIREMENTS: Bachelor's degree in Computer Science, Electrical Engineering, or related field and three (3) years of job-related experience in electrical operations **OR** an equivalent combination of job-related education/experience [substituting each one (1) year of postsecondary education/training for six (6) months of experience].

License(s)/Certification(s): A valid, lawful Driver's License and certification as a Fiber Splicing Specialist from an approved program are required. Must meet NESC requirements to be a qualified electrical worker to work in high voltage facilities.

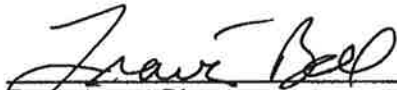
SELECTION FACTORS: **Knowledge of:** installation and maintenance of optical transmission equipment in a SONET architecture; optical fiber installation and delivery; optical ground wire communication (OPGW) installation; and maintenance; SCADA infrastructure installation and maintenance; SCADA database and RTU or other Intelligent Electronic Devices (IED) programming and configuration; related laws, codes, rules, and regulations governing functions of the position; policies and procedures established for the work system; operations, functions, and terminology common to the work; and basic English composition, spelling, and grammar. **Skill in:** computer usage (high level) including Windows and Linux operating systems; Linux command line interface (general level); ACS SCADA; data transmission back haul (general level); Automated Meter Infrastructure (AMI) communication protocols such as DNP3, ACS 7000, and IEC 61850 (basic level); practicing trust-building behaviors. **Ability to:** assist team members involved with installation or maintenance of smart grid communications network hardware including but not limited to: port servers, power system grade multiplexors, radios,

LTC controllers, relays and other Intelligent Electronic Devices (IEDs); assist team members involved with installation or maintenance of Smart Grid communications specific operating systems or applications; multitask and work well with third-party contractors while troubleshooting grid communication issues under highly stressful situations; adhere to all safety rules and regulations; accurately and quickly perform work; deal with the public in a pleasant, courteous, and calm manner in all circumstances; communicate effectively both verbally and in writing; develop and maintain effective working relationships with the public, coworkers, and superiors; evaluate programs and procedures; exercise independent judgment while evaluating situations and in making determinations; organize assigned work and develop effective work methods; prepare clear, concise, accurate, and informative reports; perform duties in a manner that demonstrates respect, integrity, courtesy, and kindness towards fellow workers, customers, and the general public; demonstrate a high level of commitment to the principles of positive customer service.

TOOLS AND EQUIPMENT USED: Mechanical and motor vehicles, man lifts, hand tools, power tools, ladders, line truck, bucket truck, fiber splicer, communication devices, electronic diagnostic devices, computers, office and field equipment.

PHYSICAL DEMANDS: Requires regularly working at considerable heights, lifting mechanical and power tools, lifting 50-75 lbs., driving vehicles, climbing ladders, pulling long runs of wire up to 100 ft., carrying, bending, stooping, and walking over varied or rough terrain.

ENVIRONMENTAL FACTORS: Exposure to adverse weather conditions, electrical solvents, oils and compounds, hazardous environments, heavy traffic, confined areas, electrical systems rated 120 volts to 138,000 volts AC and 125 volts DC, energized electrical equipment, and high-stress situations or environments, including confrontational or uncomfortable contact with the public. *Note: Employees of this class may be subject to on-call status. RESIDENCY: Employees of this class are subject to Provo City residency requirements; they must reside within a 15-mile radius of their primary operations facility to affect a maximum 20-minute response time.*



Department Director

9/26/17
Date



Mayor/Chief Administrative Officer

9/28/17
Date

NOTE: The above statements describe the general nature and level of work being performed by the person(s) assigned to this classification. They are not intended to be an exhaustive list of all duties, responsibilities, and skills required of personnel so classified. Class specifications are not intended to and do not imply or create any employment, compensation, or contract rights to any person or persons. Management reserves the right to add, change, or delete any and all provisions of this classification at any time as needed without notice. Reasonable accommodations may be made for otherwise qualified individuals who require and request such accommodation. This class specification supersedes earlier version.