

**MAJOR FUNCTION**

This is skilled journey level work in the inspection, maintenance and construction of substation and network systems of the City. Duties include the installation, maintenance, construction, and repair of substation equipment such as power transformers, regulators, circuit breakers, switches, substation control panels, and underground network equipment. Work is performed in accordance with established policies and procedures and under the direction of the Foreman-Substation Operations. Work is reviewed through inspections and by results obtained.

**ESSENTIAL AND OTHER IMPORTANT JOB DUTIES**

Inspects and maintains substation equipment. Utilizes a wide variety of complex electrical and mechanical test equipment. Performs activities related to the operation, routine maintenance and emergency repair of regulators, circuit breakers, power transformers, underground network equipment. Repairs and/or splices high voltage cables of network, distribution, and series street lighting systems. Trains subordinates, research and studies equipment installation, operation and maintenance manuals and books. Performs related work as required.

**Other Important Duties**

Performs work related to power circuits switching and apparatus as required. Performs related work as required.

**DESIRABLE QUALIFICATIONS****Knowledge, Abilities and Skills**

Considerable knowledge of the practices, methods, equipment, and tools used in power substation and underground network construction, operation, maintenance and repair, and a reasonable acquaintance with electrical principles. Considerable knowledge of occupational hazards and safety precautions related to this type of work. Knowledge of electric system protective devices and equipment in the City's electric system. Ability to work from blueprints, wiring diagrams and equipment manufacturers' directions. Ability to establish and maintain effective working relationships as necessitated by the work. Ability to follow oral and written instructions. Skill in handling and repair of energized power cables. Skills in the use of mechanical and electrical instruments and test equipment. Ability to perform manual work during adverse weather conditions during system disturbances, including descending into underground vaults or tunnels, climbing on substation equipment and structures.

**Minimum Training and Experience**

Possession of a high school diploma or an equivalent recognized certificate and successful completion of the apprenticeship program as an apprentice substation electrician; or four years experience that includes the construction, inspection and maintenance of substations, network systems and related equipment.

**Necessary Special Requirements**

Employees in this classification are required at the time of appointment to possess a valid Commercial Driver's License (CDL) in order to have continued employment. This includes a requirement that the employee register with the Federal Motor Carrier Safety Administration Drug and Alcohol Clearinghouse.

Individuals in this classification are considered essential during emergency and storm situations and must be able to work 16 hours per day for extended periods of time and may be required to be away from their family.

Individuals in this classification must be available to serve on-call and are subject to having to work outside of their assigned shift/schedule to meet operational needs.

Must be able to distinguish between red and green.

Individuals in this classification are subject to being deployed for mutual aid assignments out of town. These mutual aid assignments will require travel, extended workdays and working 16 hours per day during deployment.

Established: 05-08-21

Revised: 02-16-24