

**MAJOR FUNCTION**

This is supervisory and highly skilled technical work in the design, implementation, maintenance and monitoring of the City's natural gas corrosion protection system. The incumbent also directs assigned personnel in the use of state of the art technology that includes, but is not limited to, Geographic Information Systems (GIS) and other specialty software. Work is performed independently in accordance with general instructions given by the Superintendent-Gas Operations and is coordinated with that of other construction and maintenance personnel. Work is reviewed through conferences, analysis of reports and field inspections.

**ESSENTIAL AND OTHER IMPORTANT JOB DUTIES****Essential Duties**

Supervises staff and resources dedicated to the establishment, implementation, maintenance and monitoring programs, for the detection, analysis and correction of corrosion failures in the City's Gas Utility. Directs operation, maintenance, troubleshooting, calibration and testing of cathodic protection systems for pipelines, tanks and station facilities. Develops programs and/or operating procedures to mitigate internal and external corrosion. Trains and oversees staff using equipment to eliminate corrosive electrolysis between the gas pipeline and the soil. Directs staff in the safe and effective use of equipment and tools used for measuring stray electrical activity in the soil and the pipeline and identifying areas where electric current exceeds permissible standards. Ensures maintenance of field test equipment, ensure good operating condition and render minor repairs, as applicable. Performs remedial corrective measures on systems and processes where required, including the cathodic protection system. Ensures all required surveillances and inspections are completed on time for pipelines and facilities. Oversees the monitoring of the complete distribution system for leaks, including formal surveys, and recommends required corrective action. Maintains daily leak logs in accordance with Florida Public Service Commission rules and regulations. Updates and modifies the GIS electronic maps for leak surveys and cathodic protection. Views and modifies the Gas GIS electronic map. Recommends the hiring, transfer, promotion, grievance resolution, discharge or discipline of assigned employees. Conducts performance evaluations and recommends approval or disapproval of merit increases. Performs related work as required.

**Other Important Duties**

Handles public relations problems. Coordinates the attendance of assigned staff at City-sponsored safety and training developmental opportunities. Performs related work as required

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

Considerable knowledge of construction and maintenance procedures as they relate to gas distribution and cathodic protection. Considerable knowledge of electricity, i.e., current, voltage and resistance; electrical instrumentation, and test equipment. Ability to operate and understand the tools, equipment, and instruments used in corrosion control. Ability to recognize symptoms and practical solutions to field problems. Ability to make clear written and oral descriptions of corrosion problems detailing symptoms, means of measurement or detection, and corrective measures to be used. Ability to prepare written logs, reports and other written communication. Ability to direct the work of others in a manner conducive to optimum performance. Considerable skill in the use of tools used in designing, monitoring and maintaining gas corrosion systems. Skill in the use of a microcomputer and the associated programs and applications necessary for successful job performance.

**Minimum Training and Experience**

Possession of a high school diploma or an equivalent recognized certificate and five years of technical experience in the natural gas industry that includes the operation, maintenance, troubleshooting,

calibration and testing of cathodic protection systems to detect or prevent corrosion in a gas distribution system; or an equivalent combination of training and experience.

Necessary Special Requirements

Must have successfully completed a basic National Alliance Corrosion Engineer (NACE) course.

Must possess a valid class E State driver's license.

Established: 11-10-07