



POSITION DESCRIPTION

TITLE: Cathodic Protection Technician

REPORTS TO: Operations Supervisor (Systems)

GRADE: 4

FLSA: Non-exempt

CONFIDENTIAL: No

SUPERVISORY RESPONSIBILITIES

DIRECT: None

INDIRECT: None

MINIMUM QUALIFICATION REQUIREMENTS

Unless required by law, experience and education may be substituted for each other upon approval by the General Manager or their designee. Certifications required by law for the position must be obtained within first year in the position.

EDUCATION: High School graduate or equivalent is required, supplemented by college course work or specialized training related to water science, including corrosion control programs. One year of experience in the administration, testing, and inspection of corrosion control devices or an equivalent combination of education and experience is required. Valid California driver's license and proof of insurability and Standard First Aid and CPR certifications are required.

Licenses, Certifications, and Special Requirements: State of California Water Distribution Operator D3 and a Water Treatment Operator T1 certifications are required. A Water Treatment Operator T2 certification is required within two years of appointment. The NACE (National Association of Corrosion Engineers) Cathodic Protection Tester CP1 certification is required within two years of appointment. The National Fire Prevention Association (NFPA) Electrical Safety Class 70E is required within six months of appointment. The NACE Cathodic Protection Technician CP2 certification is desirable.

EXPERIENCE: Knowledge of the operation, services, and activities of a corrosion control program to include: practices, principles and techniques of corrosion control; pertinent federal, state, and local laws, codes, and regulations regarding the installation and testing of corrosion control devices; principles of electricity as applied to cathodic protection systems and devices; and general safety practices. Knowledge of office procedures, methods, and equipment including computers; ability to use spreadsheet and database software applications such as GIS and asset management systems; applicable water supply and related distribution equipment and facilities; and principles and practices of customer service.

CONTACT RESPONSIBILITY

INTERNAL: Interaction with Supervisor to receive specific work assignments, general direction, and have results reviewed; District management to provide a variety of administrative support functions, District employees to discuss and resolve customer service issues; all other District personnel as required.

EXTERNAL: Interaction with consultants, contractors, and vendors to schedule meetings, purchase supplies, coordinate projects related to the Cathodic Protection Program, and contract fulfillment.

Interaction with general public and other agencies to respond to questions on corrosion control and cathodic protection. Interact with emergency service personnel, as required.

PHYSICAL REQUIREMENTS

Good hearing, eyesight and speech; excellent ability to communicate, both verbally and in writing; ability to operate and utilize a personal computer and peripherals; able to tolerate periods of continuous sitting; may on an infrequent basis assist with lifting up to 100 pounds. Incumbents require sufficient mobility to work in an office and field setting; stand, stoop, reach, bend, kneel, squat, climb ladders, and walk on uneven terrain, loose soil and sloped surfaces; reach and twist, push, pull, lift, and/or carry moderate amounts of weights; operate assigned equipment and vehicles; requires a sense of touch, finger dexterity, and gripping with hands and fingers.

This position requires the ability to be “on-call”, work evenings, weekends, and Holidays.

ENVIRONMENTAL CONDITIONS

When working outdoors, work is performed in all types of weather. Subject to: noisy conditions, odors, contact with animals and insects, hazardous traffic conditions, confined spaces, variable weather conditions, possible exposure to heavy equipment, dust, and fumes. When working indoors, work is performed in an office environment with lighting and ventilation. Appropriate personal safety equipment is provided.

DETAILED DUTIES AND RESPONSIBILITIES - ESSENTIAL FUNCTIONS

This at will position's responsibilities include: performing inspections on a variety of water systems; interpret, apply, and enforce pertinent rules and regulations; read and interpret data, information and documents; analyze and solve problems; use math and mathematical reasoning; review and interpret blueprints, plans, and manufacturers' manuals pertaining to corrosion control to determine compliance with District, State and Federal standards; perform, analyze and interpret the results of a variety of corrosion control tests; maintain accurate records and prepare appropriate reports; operate and maintain testing equipment; perform assigned work in accordance with appropriate safety practices and regulations; operate office equipment including computers and supporting software applications; work independently in the absence of supervision; communicate clearly and concisely, both orally and in writing; establish and maintain effective working relationships with those contacted in the course of work. A working knowledge and understanding of District safety rules and regulations, as well as active participation in the District's safety programs is necessary. An ability to perform successfully within a team environment; as well as support of the District Strategic Plan and Mission Statement are essential. Reliable, stable attendance is required.

The following tasks are typical for this classification. Incumbents may not regularly perform all of the listed duties and/or may be required to perform additional or different duties from those set forth below to address business or staffing needs and changing business practices as defined by the General Manager.

% TIME

TASKS

25%

Collects, compiles, and analyzes data from corrosion prevention test stations to determine the need for maintenance, repair, and/or replacement. Diagnoses, troubleshoots, adjusts, and repairs corrosion prevention and testing devices, equipment, and systems. Applies relevant principles and techniques to evaluate and solve corrosion problems of varying difficulty. Reviews and evaluates corrosion control parameters of water pipelines, storage

tanks, reservoirs, flow control facilities, pump stations, and treatment plant facilities. Performs pipeline condition assessments and service life analysis; and participates in the interior inspection of transmission and distribution system pipelines.

- 25%** Installs, maintains, and inspects corrosion prevention systems, which provide cathodic protection and protective coatings for water pipelines, storage tanks, reservoirs, flow control facilities, pump stations, and treatment plant facilities.
- 20%** Utilizes and maintains information related to cathodic protection in the District's GIS, Enterprise Asset Management system, corrosion project databases, word processing, and spreadsheet applications to retain complete records and files. Prepares clear, concise, and accurate technical reports, and correspondence.
- 10%** Serves as liaison for corrosion related projects and assists with the preparation of bids and the selection of contractors to support the District's Cathodic Protection Program.
- 10%** Trains, instructs and advises other District personnel in corrosion prevention methods, techniques, and practices. Assists the Systems Operations Department with tasks and duties, including collecting and analyzing water samples, performing system maintenance, and supporting shut downs and construction project activities.

DETAILED DUTIES AND RESPONSIBILITIES – NON-ESSENTIAL FUNCTIONS

- 10%** Performs all related duties as assigned.