

PADRE DAM MUNICIPAL WATER DISTRICT CLASS SPECIFICATION

CLASS TITLE: Cathodic Protection Program Coordinator

DEPARTMENT: Engineering	ACCOUNTABLE TO: Engineering Manager	FLSA STATUS: Non-Exempt
SALARY RANGE:	23 - 27	
CLASS SUMMARY: Incumbents are responsible for directing, developing, designing, installing and maintaining a cathodic protection system for potable and recycled water treatment, storage, transmission and distribution systems and facilities, wastewater treatment facilities, sewer pipelines and facilities and performs related duties as assigned.		
DISTINGUISHING CHARACTERISTICS: This is a stand alone position that is distinguished from the Construction Inspector in that the main duties deal with Padre Dam's cathodic protection program.		

DUTY NO.	ESSENTIAL DUTIES: (These duties are a representative sample; position assignments may vary.)
1.	Plans, develops, designs, installs and maintains corrosion-prevention systems such as cathodic protection and protective coatings for potable and recycled water pipelines, storage tanks, reservoirs, pump stations, wastewater treatment plant facilities and sewer pipelines and facilities.
2.	Prepares detailed designs for corrosion prevention systems and prepares specifications, cost estimates and bid documents; assists in the evaluation of bids and the selection of contractors; serves as project manager for corrosion-related capital improvement projects.
3.	Inspects all Padre Dam pipelines, storage tanks, reservoirs and facilities on a regular basis as part of the corrosion prevention program; oversees underwater inspections of storage tanks and reservoirs and interprets reports and recommendations.
4.	Collects, compiles and analyzes data from corrosion test stations to determine the need for maintenance, repair and/or replacement of the associated facility.
5.	Diagnoses, troubleshoots, adjusts and repairs corrosion prevention and testing devices, equipment and systems.
6.	Researches and develops recommendation regarding interior and exterior protective coatings for potable and recycled water storage and distribution tanks, reservoirs, pipelines, wastewater treatment plants, sewer pipelines and all related facilities.
7.	Trains, instructs and advises other Padre Dam personnel in corrosion prevention methods, techniques and practices.

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DUTY NO.	ESSENTIAL DUTIES: (These duties are a representative sample; position assignments may vary.)
8.	Collects soil for sample analysis on capital improvement, construction and repair projects.
9.	Reviews and evaluates corrosion control parameters of pipelines and flow control facilities; performs pipeline condition assessments and service life analysis; inspects the interior of all transmission pipeline systems.
10.	Keeps accurate records using digital technology and utilizes the system to trend and analyze the data.
11.	Performs other duties of a similar nature or level.

Knowledge (position requirements at entry):

- Principles, practices and methods of corrosion control and prevention as applied to water conveyance facilities;
- Technology, equipment and materials used in corrosion control and prevention systems common to a water works system;
- Basic principles of biology, chemistry and physics;
- Water disinfection and dechlorination methods, techniques and equipment;
- Principles of electricity as applied to cathodic protection systems and devices;
- Applicable soil sampling and analysis methods and techniques related to soil corrosivity;
- Underwater inspection techniques;
- Applicable rules and regulations;
- Safety regulations;
- State of California Department of Health Services and Federal regulations for water testing and quality.
- Appropriate computer programs necessary to do the functions of the job.

Skills (position requirements at entry):

- Accurately review and prepare semi-routine to difficult corrosion prevention system drawings, plans, specifications and cost estimates;
- Apply relevant principles and techniques to evaluate and solve corrosion problems of varying difficulty;
- Make or check corrosion and related civil engineering computations quickly and accurately;
- Maintain complete records and files;
- Statistical analysis of corrosion information;
- Perform technical research on corrosion prevention projects;
- Manage and administer contracted corrosion prevention construction projects;
- Prepare clear, concise and accurate technical reports, maps and correspondence;
- Use computers and related software applications for spreadsheets, project management, corrosion records and word processing;
- Communicate effectively in writing;

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- Communication, interpersonal skills as applied to interaction with coworkers, supervisor, the general public, etc. sufficient to exchange or convey information and to receive work direction.

Training and Experience (position requirements at entry):

Two years post-high school college courses in engineering, chemistry, physical sciences and/or corrosion issues and six years of responsible technical experience in corrosion control and prevention; or, an equivalent combination of education and experience sufficient to successfully perform the essential duties of the job such as those listed above. Associate's Degree in physical sciences and/or civil engineering highly desired.

Licensing Requirements (position requirements at entry):

- Valid California Driver's License;
- Cathodic Protection Technologist (NACE) Certification;
- Coating Inspector Level 2 (NACE) Certification within one year of date of hire;
- Water Distribution Operator Grade D-3 certificate from the State of California, Dept. of Health Services highly desired. Must be able to obtain within 3 test cycles of date of hire;
- SCUBA Certification highly desired.

Physical Requirements:

Positions in this class typically require: climbing, stooping, kneeling, crouching, reaching, walking, fingering, talking, hearing, seeing and repetitive motions.

The incumbent may be required to use underwater breathing apparatus and must be physically fit to perform underwater inspections.

Incumbents may be subjected to moving mechanical parts, electrical currents, vibrations, fumes, odors, dusts, gases, poor ventilation, chemicals, oils, inadequate lighting, work space restrictions, intense noises and travel, confined spaces, infectious materials and working at heights of up to 130 feet.

Medium Work: Exerting up to 50 pounds of force occasionally, and/or up to 20 pounds of force frequently, and/or up to 10 pounds of forces constantly to move objects.

Classification History:

Date: 8/05