RF Geager

Senior Corrosion Engineer

Randy J. Geving, PE

Randy Geving has over thirty years of corrosion engineering experience in the water, wastewater, and oil & gas industries. Mr. Geving is a Registered Professional Corrosion Engineer and has served as engineering manager and lead project corrosion engineer for numerous water infrastructure projects. He has extensive experience in the design and installation of cathodic protection systems, condition assessment of metallic pipelines and concrete reinforced structures, metallic component failure analysis, and metallurgical materials selection for hydro processing and water/wastewater facilities.

Project Experience:

Failure Analysis / Condition Assessment

Responsible for assessing condition and/or cause of failure of pipelines, tanks, steel reinforced concrete and other components. The analysis consists of field inspections and tests ranging from ultrasonic thickness measurements, pit depth readings, soil analysis, and cathodic protection measurements, and coating assessment. All test data, observations, conclusions and recommendations to prevent future failures are provided to the client in a report.

- Helix Water District Corrosion & Coating Engineering Services 2016-2020
- City of San Diego 31 Potable Water Pipelines
- City Of Oceanside Morro Hills No. 2 Reservoir
- Jurupa Community Services District 18-Inch Steel Force Main
- City of San Diego Programmatic Sewer Force Main
- City Of San Diego North City To San Vicente Pipeline
- City of Vista Buena Vista Pump Station/Jefferson Street Bridge
- Eastern Municipal Water District TVRWRF Rotary Drum
- Goleta Water District El Camino Well Downhole

Corrosion Program Management/Program Review

Responsible for defining, implementing and maintaining Municipality cathodic protection programs. Work includes reviewing and evaluating all existing corrosion control facilities for both piping and reservoirs, as well as defining and prioritizing future corrosion protection and monitoring needs to preserve the integrity of the systems.

- Olivenhain Municipal Water District
- Leucadia Wastewater District
- Otay Water District
- Ramona Municipal Water District
- San Dieguito Water District
- Santa Fe Irrigation
- Vallecitos Water District
- Rainbow Municipal Water District
- City of Sunnyvale
- Santa Margarita Water District

Cathodic Protection Data Collection/Analysis/Corrosion Support

YEARS OF EXPERIENCE

36

YEARS WITH FIRM

15

EDUCATION

B.S., Metallurgical Engineering, California Polytechnic State University, San Luis Obispo, 1987

Association for Materials Protection and Performance (AMPP) formerly NACE Int'l)

Cathodic Protection Theory

CERTIFICATIONS

California Registered Corrosion Engineer No. CR-1060

AMPP:

CIP Level 1, No. 28714

Confined Space Entrant/Attendee

PROFESSIONAL AFFILIATIONS

Association for Materials Protection and Performance (AMPP) formerly NACE Int'l.

CONTACT INFORMATION

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Responsible for conducting data collection and analysis of new and existing cathodic protection systems on buried metallic pipelines and steel storage tanks. Newly installed facilities are inspected and tested to ensure compliance with project design documents. Testing on existing facilities identifies areas which require remedial measure in order to achieve or maintain the desired level of corrosion protection. Follow-up testing is often required to troubleshoot areas of low protection. This testing includes electrical continuity testing and stray current interference testing along selected reaches of pipeline.

- City of Oceanside Guajome Reservoir Waterproofing Project
- City of Oceanside Mesa Drive 24-inch Pipeline
- City of San Diego Catalina Standpipe Replacement Project
- City of San Diego Cathodic Protection of Critical Mains Project
- City of San Diego Pacific Highlands Ranch PR Station

Cathodic Protection Design

Responsible for designing new and retrofit cathodic protection systems for buried metallic pipelines and aboveground water storage tanks. Designs, galvanic anode and impressed current, take into account soil conditions, coating options, power availability and other parameters in order to achieve the most cost effective means of long term corrosion protection in accordance with nationally accepted standards.

- South Coast Water District Submersible Pump Cathodic Protection Design
- City of San Diego NCW Reclamation Plant Expansion
- City of San Diego City Pure Water Facility
- City of San Juan Capistrano Calle Pinon Pressure Reducing Station
 Replacement Project
- Olivenhain Municipal Water District Rancho Santa Fe Road Cathodic Protection Retrofit

Corrosivity Assessment

Conduct in-situ corrosion assessments along pipeline alignment or project site to determine aggressiveness of soil to buried metallic utilities. Assess stray current interference risk from foreign utilities. Review project geotechnical data, including soil sample analysis data pertaining to soluble salt content, pH and resistivity. Provide client with summary report which includes all pertinent data, conclusions and recommendations in order to minimize the risk of future leaks on utilities due to external corrosion.

- Coachella Valley Water District North Shore Water Main
- Coachella Valley Water District Reservoir 4602-2
- City of San Diego North City Pure Water Facility Expansion
- City of San Diego Otay 2nd Pipeline Phase 1, 2, and 3
- City of San Diego Cielo and Woodman Pump Station
- City of Corona Home Gardens Water Transmission Pipeline
- City of Ontario/Upland Pipeline Project
- City of Poway Liguori Reservoir
- Jurupa Community Services District 24-inch Force Main Project

Thermal Resistivity Assessment

Testing is conducted in the field or in a laboratory from samples of soil varying densities and moisture contents. Testing is conducted in general accordance with the standard method ASTM D5334-08 which calculates thermal resistivity by monitoring the dissipation of heat from a line heat source. Data and conclusions are provided to the client is a summary technical memo.

- Solar Gen II Project
- Imperial Valley Solar Company 2 Solar Farm project
- Imperial Irrigation District Highline Substation project
- Dixieland Solar East & West Project

More Experience Available Upon Request

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