

Experience THE ALISTO WAY



ENGINEERING &
ARCHITECTURE



ENVIRONMENTAL



CONSTRUCTION &
FIELD SERVICES



CLEAN &
RENEWABLE ENERGY



CORROSION
ENGINEERING



PROJECT
MANAGEMENT



SPECIALTY
ENGINEERING



ALISTO
ENGINEERING



Statement of Qualifications



ALISTO ENGINEERING GROUP

A Certified Minority-Owned Business Since 1992



THE ALISTO WAY

Alisto Engineering Group is a minority-owned firm providing project management, engineering, environmental, corrosion engineering, and construction services with a multi-disciplinary staff of highly qualified and experienced professionals, scientists, and technicians. Alisto was established in 1992 in response to clients' demand for personal, focused, cost-effective and quality service. Since then, we have gained an impressive following of clients, several of whom have been and continue to be our loyal partners for more than 20 years.

In all areas of our business, we strive to provide exceptional and uncompromising service. Throughout project execution—from kickoff through closeout we insist on total client satisfaction. We have and will always stand firm in our dedication to treat each client like they're our only client, approach every project with integrity and honesty, focus on innovative, cost-effective, and sustainable solutions, and strive to exceed our clients' expectations. For more information about our capabilities and experience, please visit www.alisto.com.

CORE SERVICES

At Alisto Engineering Group we understand that your project, however small or large, is important and that is the why we make it our priority. The diversity of services we offer means that we bring a versatile, all-inclusive team of specialists to complete your project on time and on budget. Our staff of engineers, construction managers, project managers and other professionals have worked with a wide range of clientele and are able to fulfill our client's needs, including:



ENGINEERING & ARCHITECTURE

Our engineering services encompass all project phases detailed engineering design. Alisto's multi-disciplinary engineering services include architecture, and all engineering disciplines as well as scheduling, CADD, GIS, and cost estimating.



- Civil, Mechanical, Electrical, Structural, Environmental, Chemical, and Geotechnical
- Strategic Planning, Programming and Design Management
- Sustainable Master Planning and Community Development
- LEED Green Building Energy Conversions
- Engineering Analysis and Design
- Constructability Analysis and Value Engineering
- Construction Plans & Specifications



ENVIRONMENTAL

Alisto offers comprehensive environmental services in hazardous materials and waste, water, wastewater, stormwater, and air quality management, environmental engineering, regulatory compliance and permitting, and occupational health and safety. With our "one-stop" shop service, we provide our clients with a value-added benefit for environmental compliance and management.



- Regulatory Compliance & Permitting
- Investigations and Assessment Remedial Design and Construction
- Solid & Hazardous Waste Management
- Water & Wastewater Engineering
- Water Resource & Quality Management
- Stormwater Management
- Air Quality Management
- Environmental Resource Management
- Occupational Health and Safety



CORROSION & CATHODIC PROTECTION

Our experienced NACE certified corrosion engineers, specialists, and technicians provide expert design, monitoring, installation, and rehabilitation services to assist clients in corrosion protection of gas and electric transmission and distribution systems, water and wastewater systems, oil and chemical process systems, marine assets, and transportation infrastructure.



- Facility Survey and Assessment
- CP System Testing and Evaluation
- Engineering Study, Analysis and Design
- Corrosion Protection System Installation: Anode Beds, Zinc Ribbons, Ground Rods, etc.
- CP Test Station & Monitoring System Installation
- CP System Commissioning and Start-Up
- Operation, Maintenance and Repair
- Cathodic Protection Feasibility Studies, Design, Commissioning and Testing

As a **Licensed California Class A General Contractor** with a Hazardous Substance Removal Remedial Action Certification, Alisto has the capability to undertake a turn-key project, including procurement and commissioning.



CONSTRUCTION & FIELD SERVICES

Our comprehensive construction and field services cover almost all aspects of construction. Our dedicated professionals and technicians provide superior CM and inspection services to ensure that each project is completed in accordance with all applicable codes, regulations, and project specifications. Alisto has the capability to undertake a turn-key project, including procurement and commissioning.



- Construction Management
- Design-Procure-Build
- Contractor Prequalification
- General Contracting
- Procurement
- QA/QC Inspection
- Operation & Maintenance
- Startup and Commissioning
- Multi-media Environmental Monitoring
- Field Survey and Inspection
- Permitting and Compliance Monitoring
- Electric Distribution



PROGRAM & PROJECT MANAGEMENT

Alisto is a trusted partner in the management and cost control of major capital engineering and environmental programs in numerous markets, including oil and gas facilities, water and wastewater utilities, energy resource management, corporate real estate development, and educational institution improvements.



- Program and Project Leadership
- Reporting & Analytics
- Scheduling
- Budgeting
- Cost Estimating & Control
- Engineering, Procurement & Construction
- Materials Inventory Management
- Project Finance Analysis



SPECIALTY ENGINEERING & TECHNICAL SERVICES

Alisto Engineering Group offers specialty engineering and technical services in the areas of integrity assessment and management, energy resource management, and other technical and engineering disciplines in support of our engineering, environmental and construction services.



- Gas Leak Survey of Distribution and Transmission Systems (LDAR and Method 21)
- Traffic Control Plan Preparation and Permitting
- Utility Locating and Marking
- CADD and GIS Mapping Support
- Energy and Sustainable Resource Management
- Facility Survey and Condition Assessment
- Facility and Pipeline Integrity Management
- Information Technology and Data Management Support

PROJECT EXPERIENCE

Alisto is proud to have collaborated with many progressive, forward thinking clients worldwide. Below is a partial list of our representative clients.

PROJECT	CLIENT
Corrosion Protection Program Management, Assessment, Engineering, and Construction Services	Pacific Gas and Electric Company System-wide, California
Engineering Drafting and Mapping Services for Construction of Electric and Gas infrastructures	Consolidated Edison Company of New York, New York, and Westchester County
Engineering, Procurement and Construction Services for Various Gas Transmission and Station Projects	Pacific Gas and Electric Company System-wide, California
Project Management and Turn-Key Engineering Services for 10-MW Solar Farm	Band of Pomo Indians/Dry Creek Rancheria, Sonoma, California
Project Management, Engineering and Construction of Alternating Current Interference Mitigation Measures from Electric Transmission Line on Gas Pipeline	PG&E and Southern California Edison Tehachapi, California
On-Call, Task-Order Gas Engineering and Technical Support Services	Sacramento Municipal Utility District Sacramento, California
Engineering Design and Project Management of Valve Automation and Replacement Projects and Owner-Engineer Services	SoCalGas Company Los Angeles County, California
Project Engineering and Third-Party Review Services for Russell City and Lodi Energy Centers	Pacific Gas and Electric Company Lodi and Fremont, California
Indefinite Quantity Environmental and Facility Engineering Services Contract	United States Postal Service 35 Western States
Project Engineering, Management and Owner's Engineer Services for Valve Automation/Replacement and other Gas Transmission Projects	Pacific Gas and Electric Company System-wide, California
Project Management and Turn-Key Engineering and Construction Services for Proposition 39 Energy Efficiency Projects	Lake Elsinore Unified School District Lake Elsinore, California
On-Call, As-Needed Corrosion Protection Services for Gas Distribution System	CPS Energy San Antonio, TX
Turn-Key Engineering and Construction of Two CNG Fueling Stations	Liberty Utilities South and North Lake Tahoe, CA
Indefinite Quantity Environmental and Facility Engineering Services Contract	Fairfield-Suisun Sanitary District Fairfield, California
Cultural Resource Impact Review and Historical Site Documentation and Cathodic Protection System Evaluation	Lawrence Livermore National Laboratory Livermore, California
Project Engineering, Management and Owner's Engineer Services for Valve Automation/Replacement and other Gas Transmission Projects	West County Wastewater District Richmond, California
Engineering and Construction Services for Upgrades/Replacement of Cathodic Protection and Test Stations	Fairfield-Suisun Sanitary District Fairfield, California
Landfill Monitoring and Water Resource Management Consulting Services	Sierra Army Depot Herlong, California
Geotechnical Investigation of Photovoltaic Power Generation Sites	Pacific Gas and Electric Company Fresno, California
Environmental Assessment, Remediation and Regulatory Compliance Services at LUST Sites	Major Oil Companies: Arco-BP, Ultramar, & Conoco-Philips, Exxon-Mobil, CA, WA, OR, and AZ
Process Hazard Analysis/Hazard and Operability Study and Air Quality Permit Compliance Monitoring at Various Recovered Energy Generation Facilities	Ormat Nevada Nevada, California, South Dakota and North Dakota



PARTNERS AND CLIENTS

- Pacific Gas and Electric Company
- Southern California Gas Company
- Consolidated Edison Company of New York
- Sacramento Municipal Utility District
- East Bay Municipal Utility District
- West County Wastewater District
- Lawrence Livermore National Laboratory
- Department of the Navy
- Department of the Army
- United States Postal Service
- U.S. National Park Service
- BP Oil Company
- Exxon Mobil Oil Corporation
- Ultramar / Valero
- Time Oil Company
- Tesoro Petroleum Company
- Conoco Phillips
- CA Department of Transportation
- CA Department of Veterans Affairs
- Florida Power and Light
- Band of Pomo Indians
- Los Angeles Unified School District
- Los Angeles Community College District
- Lake Elsinore Unified School District
- Santa Clara Valley Water District



LICENSES AND CERTIFICATIONS

- General Contractor's License, Class A (HAZ), Class C10 (Elec) CA
- General Engineering Contractor License: Arizona; California; Colorado; Nevada; New Mexico; Oregon; Washington
- California Department of Industrial Relations
- California Unified Certification Program (MBE)
- CA Department of General Services (SBE)
- Gold Shovel Association
- ISNetworld
- NULCA

Professional Registrations in Multiple States

- | | |
|----------------|-----------------|
| • Mechanical | • Environmental |
| • Civil | • Structural |
| • Geotechnical | • Geology |
| • Architecture | • Chemical |
| • Corrosion | • Industrial |
| • Electrical | |



STATE CONTRACTOR'S LICENSES:

Arizona	ROC 301324
California	A652544 HAZ (General) and C10 - Electrical
Oregon	149657
Nevada	0080810
Washington	ALESTEG054R1

STATE CORPORATE BUSINESS LICENSES:

California C1522150	Georgia 2324544
Pennsylvania 13635541	Texas 804684611
New Jersey 0450862273	Arizona F19904529
Colorado 19991165193	Oregon 43153980
Nevada NV20161086466	Washington UBI: 601589789



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8918 Tesoro Dr., Suite 200, Rm 222
San Antonio, TX 78217
(925) 279.5000

ENGINEERING, PROCUREMENT AND CONSTRUCTION SERVICES

Our engineering design, procurement, and construction services encompass all project phases from conceptual planning to detailed engineering design, construction, and commissioning. Alisto's multi-disciplinary engineering services include architecture, civil, electrical, mechanical, geotechnical, corrosion, and environmental engineering, as well as project planning, scheduling, CADD, GIS, cost estimating, inspection, and commissioning. The comprehensive services we offers include:

PROJECT PLANNING AND MANAGEMENT

- Process and Equipment Assessment
- Job Scoping and Estimating
- Preparing Technical Documents (Permits, Drawings, Standards, Material Specs.)
- Project Schedule and Budget Preparation
- Preparation of Environmental Permits, Traffic Control, Plans, SWPPP, and Waste, Discharge Permits
- Project Control and Analysis
- Schedule and Cost Monitoring
- Project and Construction Permitting
- Safety and Environmental Compliance
- RFI and Change Order Management
- Value Engineering
- Project Closeout and As-built Documentation

GENERAL CONSTRUCTION

As a licensed California General Contractor "A" with a Hazardous Substance Removal Remedial Action Certification, Alisto can provide complete design, procurement, construction, permitting, and commissioning services for projects including but not limited to:

ENGINEERING DESIGN

- Conceptual Planning and Design
- Detailed Engineering Drawings
- Preparation of Construction Plans and Technical Specifications
- Assistance with Bid Solicitation & Evaluation
- Material/Equipment Selection, Procurement, and Inventory Management
- Environmental Remediation
- Corrosion & Cathodic Protection
- Gas Transmission & Distribution
- Water & Wastewater Systems
- Civil & Utility Infrastructure
- Stormwater Management
- Energy Conservation
- LNG/CNG Fueling System
- Alternative Energy

CONSTRUCTION MANAGEMENT

- Constructability Review
- Field Inspection and Design Review
- Budget and Schedule Monitoring
- Start-Up Testing and Commissioning





Gas Engineering Design and Construction Services

Pacific Gas and Electric Company

Alisto Engineering Group has been providing engineering, environmental, and construction services to gas transmission and distribution business unit of PGE since 1993 through various master or continuing services throughout its service territory from the Oregon border to Needles, CA near the Arizona border. For more than 25 years, Alisto has successfully undertaken and completed more than 750 projects or task orders throughout all gas transmission and distribution facilities of PG&E such as:

- Project management, field engineering, construction oversight and environmental monitoring of the 24-inch gas transmission line expansion and extension to Almond Power Plant.
- Engineering, project management, and construction (turn-key) of expansion of odorant storage and feed system at Topock Compressor Station
- Engineering and construction supervision of closure of wastewater surface impoundment at Kettleman Compressor Station
- Engineering design and construction of secondary containment upgrades at two compressor stations
- Engineering, project management and installation of corrosion protection measures to mitigate alternating current (AC) induced corrosion from a 280-kv electric transmission line on two major gas transmission lines.
- Turn-key engineering and implementation of demolition and decommissioning of three compressor stations including site restoration and erosion control.
- Engineering design of upgrade to gas metering stations
- Project engineering, project management and construction support services of valve automation and replacement projects under PSEP.

- Engineering design of upgrades or replacement of more than 200 high pressure regulators and 50 casing replacements
- Engineering design and construction of aboveground storage tanks with secondary containment at a gas storage facility and compressor station for odorizer storage.

On-Call Gas Engineering Design and Support Services

Sacramento Municipal Utility District

Under a master service agreement, Alisto has provided gas engineering design and support services for the following projects:

1. Owner's engineering services for the Main Line Valve-9 & Line Breaks Automation project, including the review of procurement strategies and bid documents. Developing technical specifications for the replacement valve, actuator, and stem, as well as the line break system. Preparing special and technical conditions, and creating IFC drawings for the construction bid
 2. Developed and performed full weld test procedure for an in- service Mueller Save-on-Valve installation on a 12-inch pipe, including preparing WPS/PQR and as-built drawings
 3. As-Built Support for Gas Pipeline Operations involving design engineering review and Auto- CAD drafting services to upgrade and modify as-built drawings for four Power Generation plants gas pipeline systems
 4. Investigation and analysis of the effect of subsidence on gas pipeline including stress analysis using Ceasar II and other methods, interpretation and compliance with applicable codes, review of inline inspection, survey and geotechnical investigation results, and preparation of recommendations.
 5. Preparation of Traffic Control Plans (TCPs) for various gas and electric construction projects
-

Project Management and Engineering Design Services for Valve Automation and Replacement Projects

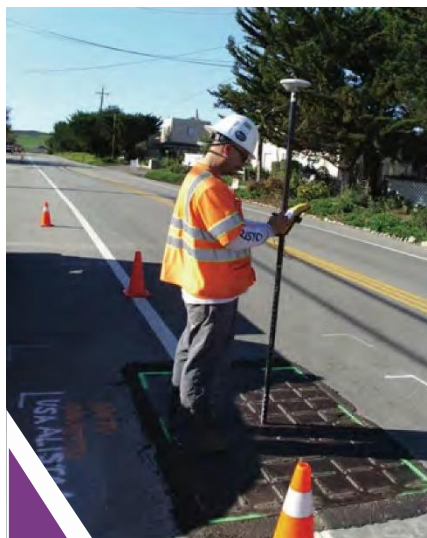
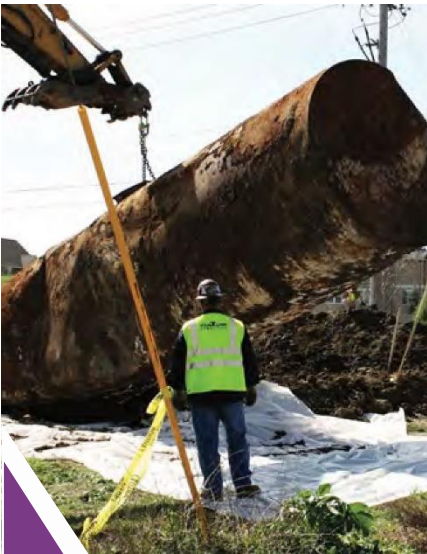
SoCalGas Company

Under the Pipeline Safety and Enhancement Program, Alisto provided project management, engineering design and construction support services for valve automation and replacement projects at five locations along major gas transmission pipelines in both urban and suburban settings.

Engineering Design and Construction Oversight of Gas Supply Line Upgrade

ATI Specialty Alloys and Components, Millersburg Operation, Oregon

ATI retained Alisto to provide engineering design and construction support services for the upgrade and replacement of high-pressure gas distribution/feeder line from a gas supplier to its specialty alloy and component processing facilities. The supply system consists of approximately 2.3 miles of 2-inch high pressure steel pipeline and regulator and metering station. Engineering services included system analysis and design, preparation of plans and specifications, cost estimates, construction drawings and equipment selection for new gas heater, gas filters, SCADA instrumentation and controls and cathodic protection. The design analysis involved pipeline replacement and re-routing and station siting and layout. After the 90 percent completion was submitted, the City of Albany and a property developer proposed to develop an adjacent property that required re-routing and re-design of the distribution pipeline and station.



ENVIRONMENTAL ENGINEERING

Alisto offers comprehensive environmental services in hazardous materials and waste management, water and wastewater engineering, air quality management, environmental engineering, regulatory management, and occupational health and safety. Our specialized capabilities allow us to serve as a “one-stop” shop and provide our clients with an added benefit for environmental compliance and permitting. The services we offer include but not limited to:

- Program/Project management
- Site assessment and remediation
- Regulatory compliance and permitting
- Conceptual planning and feasibility study
- Engineering design and procurement
- Multi-media environmental monitoring & sampling
- Operation and maintenance and other field support services
- Hydrogeology and water resource management
- Stormwater management and pollution prevention planning, implementation, and monitoring
- Spill prevention countermeasure and control (SPCC) plan
- Regulatory compliance and permitting
- Air quality engineering and management
- Underground and aboveground storage tank management
- Occupational health and safety
- Asbestos, lead-based paint, and other hazardous materials in buildings
- Risk management plan (RMP) and process hazard analysis (PHA)

With our multi-disciplinary staff of professional engineers, scientists, and technicians, we offer our comprehensive engineering services in the following areas:

- Environmental resource management and planning
- Hazardous materials and waste management
- Contaminated site investigation and remediation
- Water and Wastewater

We have provided these services to most of the major oil companies, public agencies, public and privately- owned gas and electric utilities, and major corporations throughout the Western U.S. and abroad.

ASSURING ENVIRONMENTAL STEWARDSHIP

Since its inception in 1992, Alisto has been in the business of improving and protecting environmental quality. Our Environmental Engineers, Scientists and Technicians have been involved in thousands of projects involving site investigation and remediation, waste disposal, public health protection, water and air quality management, and regulatory compliance.

Comprehensive Environmental Management and Compliance Services

Pacific Gas and Electric Company

Alisto has been providing comprehensive civil and environmental engineering and consulting services at various natural gas transmission facilities of Pacific Gas and Electric Company (PG&E) since 1993 throughout its service territory from the

The scope of services we have provided have encompassed a broad range of projects including but not limited to:

- ◆ Water supply source development and treatment evaluation for potable and industrial use
- ◆ Site assessment, remedial and design and implementation of remedial action plans
- ◆ Operation and maintenance of remediation system and discharge monitoring
- ◆ Human health and ecological risk assessment and chemical fate and transport modeling during gas transmission construction projects
- ◆ Design, procurement and construction of hazardous materials storage facilities
- ◆ Stormwater pollution prevention and reporting
- ◆ Spill prevention control and countermeasure plans and design-build of SPCC measures.
- ◆ Process hazard analysis and CalARP risk management plan.

Master Task Order Contract for Site Assessment and Remediation Services

Los Angeles Unified School District

In 2017, the Los Angeles Unified Alisto a three-year as-needed Master Task-Order Contract with 2-year

option to provide site assessment and remediation services throughout the school district. Alisto has since been awarded numerous task orders to conduct Phase I ESAs and additional investigations at various schools including Preliminary Environmental Assessment (PEA) of recognized environmental conditions to address contamination and identify health risks to workers before major renovation was performed in accordance with the American Society for Testing and Materials (ASTM), Standard Assessments: Phase I Environmental Site Assessment Process (E 1527- 13) and the All Appropriate Inquiries (AAI) promulgated by the U.S. Environmental Protection Agency. The PEA was prepared in accordance with the Preliminary Endangerment Assessment of Toxic Substance Control. Alisto has also performed limited soil sampling for chemicals of concerns, such as organophosphates and heavy metals to determine the need for removal of contaminated soil before construction.

Comprehensive Environmental Support and Emergency Response Services

East Bay Municipal Utilities

Alisto was a Prime Contractor for “on-call, as-needed” general engineering and environmental services for the District including, erosion control design, process hazard analysis, capital project engineering support, spill prevention control and countermeasure plan, emergency response, regulatory compliance, site remediation, storm water pollution prevention, waste management and disposal. Under two continuing service contracts, we provided pre-design sampling for trench spoil management to assist in the construction of major water transmission and wastewater collection systems. Under this contract, we performed numerous site investigations and engineering design for the remediation of soil

contamination various sites including at Camanche Reservoir recreation area and Bixler Maintenance Facility. Other task orders completed included preparation of Spill Prevention Control and Countermeasure Plan for the Main Wastewater Treatment Plant, Risk Management Plan for a wastewater reclamation plant and stormwater pollution prevention plans.

To date, Alisto has been awarded more than 50 “as-needed, on-call” or indefinite quantity multi-year environmental services contracts involving multi-media environmental sampling, including but not limited to the following:

Client	Contract Duration
East Bay Municipal Utility District	1996 – 2001 and 2007 - 2023
United States Postal Service	1998 – 2003, 2003 – 2008, 2008 - 2013
Pacific Gas and Electric Company	1998 – 2004 2013 - 2016
Southern California Gas Company	2013 -2016
US Bureau of Reclamation	2018 - 2022
ExxonMobil Oil Corporation	1992 – 2002 and 2002 - 2007
Ultramar Inc	2002 - 2006
Los Angeles Unified School District	2017 - 2024
Sacramento County Water Agency of Public Works	2018 – 2022
West County Wastewater District	2018 – 2022
Sierra Army Depot	2005 - 2015



CORROSION & CATHODIC PROTECTION

Our experienced AMPP-certified Corrosion Technicians provide a broad range of engineering and construction services to assist clients in corrosion protection of gas and electric transmission and distribution systems, water supply and wastewater utility systems, including storage tanks and treatment plants, pipelines for water, wastewater, recycled water, natural gas, crude oil, refined products and other chemicals, oil refinery and chemical process systems, marine assets, and transportation infrastructure. The comprehensive services we offer include but not limited to:

Engineering Study and Design

- Cathodic protection engineering analysis and design
- CP system testing and assessment

Construction and Field Services

- Field surveys, assessment, inspection and monitoring
- Turn-key system installation, commissioning and start-up
- System troubleshooting, operation, maintenance and repair

Survey and Assessment

- Close interval pipe-to-soil potential surveys (CIS)
- DC & AC voltage gradient (DCVG / ACVG) surveys
- Pipeline locating with sub-meter coordinates and depth
- Arc fault and alternating current investigation
- Coatings inspection
- AC/DC interference investigation and mitigation
- Atmospheric corrosion inspection
- ECDA and ICDA

As a licensed California General Contractor "A" with a Hazardous Substance Removal Remedial Action Certification, Alisto can provide complete design, procurement, construction, permitting, and commissioning service.





EXTENDING THE USEFUL LIFE OF YOUR ASSETS

Alisto's team of accomplished corrosion specialists are ready and available to provide all-inclusive, quality service for any corrosion needs that will provide years of worry-free operation of your facility or infrastructure. Below are projects that demonstrate Alisto's proven ability to bring innovative, cost effective, and dependable solutions to your project.



Tehachapi Alternating Current (AC) Mitigation

Pacific Gas & Electric Company

Alisto provided EPC turn-key services for mitigation of AC induced corrosion protection of Line 300 A&B from Southern California Edison electric transmission line, including installation of:

- 16 deep (400 to 900feet) grounds rods and electrical connection.
- Eight Coupon Test Stations (CTSs) along the pipeline
- Approximately 2300 feet of zinc ribbon grounding protection
- Grounding protection of aboveground pipeline and fenced operational areas

Arc Fault Survey Along Gas Transmission Pipelines

Pacific Gas & Electric Company

Since 2014, Alisto has been conducting field measurements of soil and structure resistivities where electric transmission towers and poles are in close proximity to gas transmission pipelines for arc fault analysis. The field data and resistivity measurements collected are used to analyze the potential for induced AC corrosion and to assess the safety hazard of alternating or stray current on the gas pipeline and to design the appropriate mitigation measures if required.

CP System Evaluation and Repair/Upgrade

Fairfield-Suisun Sanitary District

Alisto has performed rectifier upgrades, test station and deep anode well installation and anode junction box replacements of the impressed current cathodic protection system. We also performed interrupted pipe-to-soil potential survey and evaluation including adjusting rectifier output to meet AMPP criteria, measuring anode current output to estimate remaining useful life and measuring pipe-to-soil potentials to determine effectiveness of insulating joints.



Water Storage Tank – CP System Design, Installation and Commissioning

Spring Creek Utilities Company

Alisto provided a prototype design of CP system for use by the Owner throughout its water distribution system including a value engineering assessment of an alternate to impressed current. After Owner's approval of our recommendations, Alisto designed and installed the galvanic anode CP system at four water storage tanks, including protection from icing conditions, and provisions for replacing the anodes while the tanks are in service. Alisto also provided, testing, start-up, and commissioning of the CP systems.

A Proactive Approach Saves Time and Money

- Corrosion-related costs for monitoring, replacing, and maintaining gathering and transmission pipelines is estimated at \$7 Billion annually in the U.S. alone, and another \$5 Billion for gas distribution.¹
- Lack of prevention and control of corrosion has an impact on public safety, the economy, and the environment.
- Most pipeline and tank leaks are caused by interior or exterior corrosion.
- Typically, materials degrade at a higher rate once rust forms and chemical deterioration of the material begins.
- Preventive maintenance, in general, costs less than reactive.

¹ Retrieved from <https://www.nace.org/Corrosion-101/>



Before



After



SPECIALTY ENGINEERING AND TECHNICAL SERVICES

Alisto Engineering Group offers specialty engineering and technical services in the areas of integrity assessment and management, energy resource management, and other technical and engineering disciplines in support of our engineering, environmental and construction services:

- Gas Leak Survey of distribution and transmission Systems (LDAR and Method 21)
- Traffic Control Plan Preparation and Permitting
- Utility Locating and Marking
- CADD and GIS Mapping Support
- Energy and Sustainable resource Management
- Facility Survey and Condition Assessment
- Facility and Pipeline integrity Management
- Information technology and data Management Support

from facility survey to sustainable energy projects for various utilities and public and private clients, examples of which are described below.

Atmospheric Corrosion (AC) Meter Inspection and Leak Survey of Gas Distribution System

Pacific Gas and Electric Company

Since 2010, Alisto has supported PG&E in the management and implementation of its safety and compliance programs for the gas distribution system throughout its service territory. Starting with atmospheric corrosion inspection program of gas meters, we provided program and database management services, including quality control plan development and implementation, and inspector training. From 2014 to 2020, Alisto managed and implemented a portion of the AC meter inspection program to maintain compliance with regulatory requirements, including budget and schedule planning. We provided up to 50 operator Qualified (OQd) technicians each year to inspect more than 500,000 gas meter sets every three years for atmospheric corrosion and other areas of safety concern in accordance with regulatory requirements.



In addition to our core services, our multi-disciplinary staff of professional engineers, scientists and technicians are available to provide support services to either (1) augment client's staffing needs, (2) provide the required disciplines to complement client's team, or (3) provide specialty engineering or technical disciplines to complete the client's projects. We have provided these services to support all phases of a project from planning to design and construction using various project delivery methods such as an on-going, as-needed service or as a stand-alone subcontractor to a prime contractor.

Our specialized engineering and technical services have been provided to a wide array of projects





In 2016, PG&E awarded Alisto a multi-year contract to provide OQd gas utility workers to supplement their workforce in performing leak survey of the gas distribution system throughout their service territory. to date, we provide up to 100 trained and oQd gas leak surveyors each year to survey and inspect up to 1.0 million services, including the required inspector training and leak detection equipment.

Traffic Control Plan Preparation and Permitting

Various Electric, Gas, Water, and Wastewater Utility Clients

One of Alisto's specialty engineering services is preparation of traffic control plans and providing assistance with permitting. in the past five years alone, we have prepared more than 3000 traffic control plans for various public and investor-owned utilities in support of their engineering design, inspection, survey and construction projects including pipeline transmission construction, valve replacement, corrosion protection installation, electric utility projects, pipeline integrity projects, corrosion assessment projects, water and wastewater pipeline replacement and construction, and environmental investigations. At present, we have multi-year, on-call, as-needed contracts to prepare traffic control plans and permits for several utility clients and public agencies throughout California.



Greenhouse Gas (GHG) Leak Survey at Gas Compressor and Storage Facilities

Pacific Gas and Electric Company and Rockpoint Gas Storage, LLC

Alisto currently has multi-year contracts with both gas companies to perform the greenhouse gas emission and leak survey to comply with applicable regulations of EPA for Leak detection and repair (LDAR) and Method 21 monitoring and the California Air resources Board (CARB) and division of oil, Gas and Geothermal resources (DOGGR) for natural gas facilities At PG&E, we perform quarterly leak survey at 12 gas compressor and storage facilities and annually at about 90 transmission and distribution facilities from the Oregon border to Needles, California. our services also include data management and reporting and leak volume measurement per regulatory criteria. For Rock Point Gas Storage LLC, Alisto performs quarterly monitoring of GHG emission and leak measurement at two gas storage facilities in Lodi and Gridley, California and annual testing and surveying of compressor units in accordance with EPA, CARB and DOGGR regulations. We also provide data management and reporting services including annual inventory of affected components.

Design-Build of Two CNG Fueling Stations

Liberty Utilities

As a Prime Contractor, Alisto was contracted by Liberty utilities for the design-build of CNG fueling stations at two maintenance facilities in North and South Lake Tahoe. Our services included preparation of engineering design and specifications, regulatory permitting, and construction of the CNG fueling facilities.

Liberty utilities purchased the fueling equipment with Alisto installing the equipment and site utilities and connection to the gas supplier.



Installation of Compressed Natural Gas Fueling Station - California Department of Transportation, Monrovia, California

Caltrans - CA

The California Department of Transportation retained Alisto Engineering Group (Alisto) to install a fueling station comprised of two (2) - 20 HP compressed natural gas compressors, one in-line gas dryer, five (5) time fill fueling posts, one (1) fast-fill fueling post, and one (1) 4 ft diameter high pressure storage sphere at the Foothill Maintenance Station in Monrovia.