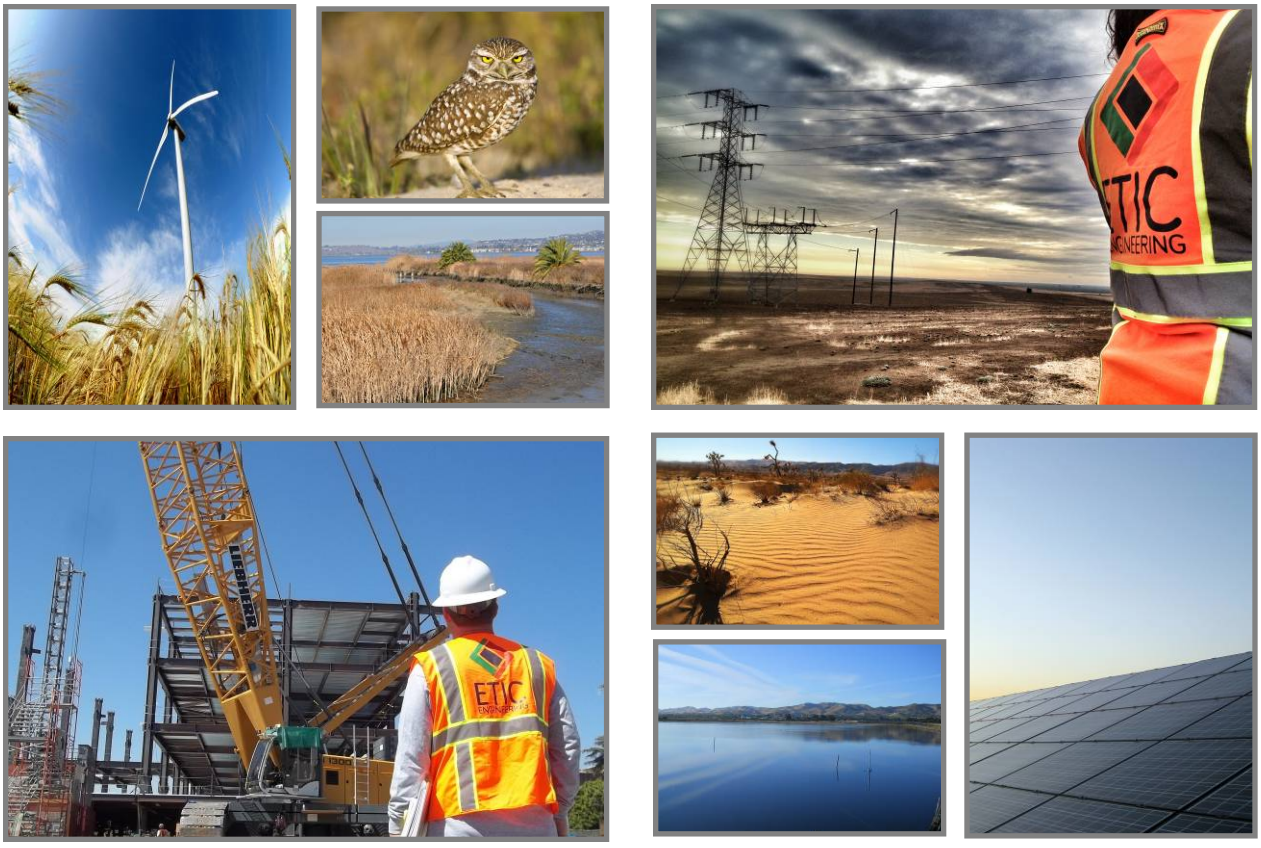
Statement of Qualifications

ETIC Engineering, Inc.

Environmental Compliance



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1.0 Introduction

Overview

ETIC Engineering, Inc. (ETIC) is a full-service remediation company, providing construction and environmental consulting services. Our services include remedial investigation/feasibility studies, engineering, compliance and field services. We have been serving California since 1991 with offices in Pleasant Hill (Headquarters), Pasadena, Costa Mesa, Martinez, Fresno, and Roseville with 11 additional support locations in California from Eureka to San Diego. ETIC also has a support location in Phoenix, Arizona and Spokane, Washington.

Our company is staffed with senior and junior professionals that comprise four technical groups: Remedial Investigation/Feasibility Study, Compliance, Engineering, and Field Services. Our staff includes professional geologists, professional hydrogeologists, professional civil engineers, biologists, technicians, and construction personnel who are knowledgeable of the applicable standards and regulations associated with the requested environmental and field services.

Certifications

ETIC is a licensed California General Engineering Contractor certified to remove hazardous substances.

We are also certified by the California Public Utilities Commission Supplier Clearinghouse as a Women and Minority Business Enterprise (WMBE), verification order number: 7JN00038, with an environmental focus.

Approach

ETIC is committed to providing quality services using innovative approaches to environmental problem-solving. We assist our clients by defining and understanding their environmental needs and develop cost-effective solutions that have proven acceptable to the public and regulatory community.

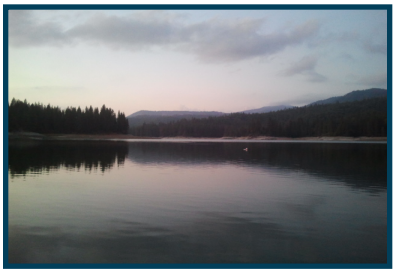
Safety

ETIC has an outstanding safety record and has been recognized nationally by our clients due to our flawless execution of field services. ETIC places a huge emphasis on a constant focus on behavior-based safety during each task on a project. In addition, ETIC places extreme emphasis on all aspects of permit compliance and we have developed a compliance vulnerability matrix to track all permit requirements. Since its inception, ETIC has never received a Notice of Violation or fine related to environmental work.

Clients

ETIC has enjoyed successful relationships with clients in both the public and private sectors, and has numerous clients who have engaged the firm since its founding. Our clients have included oil companies, manufacturers, developers, water agencies, municipalities, other consulting firms, and utility companies all who have been satisfied with our services.

2.0 Areas of Expertise



The professionals at ETIC are committed to the application of technological and scientific solutions that effectively meet the needs of our clients, while contributing to the protection and preservation of the environment. Combining technical ability with a personal approach to service, ETIC has proven itself as a leader in the areas of environmental consulting, engineering, and construction services.

With over 20 years of environmental experience, ETIC offers the following services to our clients:

2.01 Storm Water and Water Quality

2.02 Best Management Practices Implementation

2.03 Biological and Species Protection and Restoration

2.04 Drinking Water Compliance

2.1 Storm Water and Water Quality

General Information

ETIC has extensive experience working with the National Pollutant Discharge Elimination System (NPDES) storm water permit. In addition, ETIC is familiar with California's environmentally sensitive areas, diverse topography, stringent restrictions on endangered species, and terrain that present unique storm water compliance issues. ETIC's has grown its environmental compliance department from one office supporting small projects to several offices supporting large portfolios. ETIC has maintained successful relationships with clients in both the public and private sectors. We are sensitive to costs, liability issues, and the need to integrate problem solving skills with client operations and business goals.

Experience

ETIC has performed a variety of tasks designed to solve our clients storm water, water quality, and environmental risk concerns. Those services include Storm Water Pollution Prevention Plan (SWPPP) consulting, Best Management Practice (BMP) installation, Erosion and Sediment Control Plans (ESCP), Spill Prevention Control and Countermeasure Plans (SPCC), and consultation with Regional Water Quality Control Boards (RWQCB). All services are individually tailored and applied to specific client needs.

Services

- SWPPP Development, Submittal, Training, Inspection, and Monitoring;
- ESCP Preparation;
- Notice of Intent Preparation and Submittal;
- Notice of Termination Preparation and Submittal;
- BMP Design, Installation, and Maintenance Services;
- Active Treatment System Design and Permitting;
- Use of Green Technology Including Reusable and Recyclable BMPs;
- Vault and Construction Dewatering Permitting, Implementation, and Monitoring;
- Horizontal Directional Drilling Contingency (Frac-Out) Plans;
- Hydrostatic Water Permitting, Testing, Analysis, and Management;
- Drinking Water Supply Compliance and Testing; and
- SPCC Plan Preparation and Inspection.

2.2 Best Management Practice Implementation

Our turnkey approach to Best Management Practice (BMP) installation services results in lower project costs and expedited project schedules. ETIC is well versed in BMP design, installation, and maintenance services. As an innovative leader, ETIC also includes the use of green technology, reusable, and recycled BMPs on projects when fitting.

Best Management Practices

- Use of straw wattle/silt fencing
- Wheel washing
- Storm water treatment systems
- Hydroseeding
- Biological resources protection, restoration, and habitat preservation
- Erosion control blankets
- Drain inlet protection
- Active treatment system

ETIC has been designing, installing, and maintaining BMPs for a major utility provider throughout Northern and Central California. ETIC has completed BMP services for over 100 sites including substation expansions, gas pipeline installations, power-line reconductoring projects, power generation facilities, and renewable energy projects.

Selected Project Experience

Erosion and Sediment Control Best Management Practices
ETIC was retained to prepare the SWPPP as well as install erosion and sediment control BMPs. The project entailed over 15,000 of linear feet of straw wattles, over 8 acres of jute/coir netting, and over 20 acres of hydroseeding for a major utility company site near Redding, CA.

Storm Water Treatment System
ETIC designed, installed, operated, and maintained a 1,000-gallon per minute automated storm water treatment system for maintaining compliance with storm water discharge limitations at an electric utility site in Rocklin, CA. The treatment system components consisted of storage and settling tanks, a chitosan polymer flocculation metering/mixing system, sand and bag/cartridge filtration units, and multiple extraction and discharge pumps.

2.3 Biological and Species Preservation and Restoration

ETIC's staff is comprised of experienced biologists and project management professional who are trained in the full range of disciplines required to assess, evaluate, and resolve biological issues. Our biologists come from multiple fields including: wildlife biology, botany, herpetology, aquatic ecology, construction monitoring, and habitat restoration.

ETIC excels in assisting clients by participating in all phases of the project to avoid and work around environmental constraints, adhere to permit conditions to ensure compliance, and provide mitigation and restoration monitoring to ensure that the client maintains a positive environmental reputation. With the combined skills of our complete biological staff, ETIC can accompany clients throughout the entire lifecycle of the project.

Services

Construction Services

- Environmental Inspector
- Construction Monitoring
- Environmental Compliance Monitoring
- Preconstruction Surveys for Special Status and Other Resources
- Environmental Training
- Exclusion Fencing Installation, Maintenance, and Removal

Assessment

- Environmental Constraints Analysis
- Special Status Species Surveys
- Wildlife Habitat Assessments
- Fisheries and Water Quality Sampling
- Nesting Bird Surveys

Other

- Geographic Information System (GIS) Mapping
- Wetland Delineation
- Permitting Assistance

Innovation

ETIC has worked diligently to employ green technologies and provide bioengineering to minimize impacts to the environment and prevent losses from occurring. Utilizing green technologies and bioengineering reduces waste generated for temporary protection measures. These efforts provide cost saving results for installation and restoration activities. Not only has ETIC implemented these practices internally, but we work to teach our subconsultants and clients. Our success is measured in overall biological and species habitat protection statewide.

2.4 Drinking Water Compliance

ETIC has teamed with other firms to establish our drinking water compliance program. ETIC and its partner firms are certified diversity suppliers by the California Public Utilities Commission and have a successful working history with local, states, and federal regulatory agencies. These partnerships allow our team to provide exceptional service to solve our clients' drinking water compliance needs and provide cost-effective services.

Trend Setting

Our team of engineers, scientists, and regulatory specialists participate in ongoing forums to facilitate emerging trends and technologies in service delivery. Our commitment has allowed us to respond quickly to water resource and water supply concerns by leveraging our knowledge of public utility lines of business, facilities, and processes. Driving innovative solutions allows our expertise to grow.

ETIC and its partner firms offer flexible project delivery systems and approaches to meet our clients' individual needs. We are able to provide several turnkey services with strategic approaches that deliver additional value to our client's overall water quality programs.

Services

Our staff includes experts in water quality (groundwater and surface water) permitting, water system analysis, system engineering, construction management, construction, groundwater wells, cross-connection control, and operations and maintenance. This experience includes:

- Water supply planning
- Water conservation and minimization plans
- Well design, construction, decontamination, maintenance, and decommissioning
- Water quality studies and wellhead protection
- Regulatory permitting
- Water treatment plant evaluations, design, and construction
- Water distribution system evaluations, design, and construction
- Cross-connection control studies, evaluations, and program management
- Backflow prevention
- Startup services
- Operator training

3.0 Selected Project Experiences

ETIC has extensive experience performing technically sound environmental consulting services related to compliance. ETIC's range of experience and staff resources allows ETIC to be able to provide turnkey services to cover all project stages from planning, permitting, and implementation.

ETIC has provided a variety of services designed to address our clients storm water, water quality, and environmental risk concerns. ETIC routinely prepare storm water management plans, conduct storm water training, and perform storm water inspections/monitoring. We are experienced in completing high profile storm water compliance projects for the utilities industry, transportation infrastructure, general building construction projects, general discharge permits, and facility audits. ETIC has a proven track record for achieving storm water regulatory compliance and has prepared over 300 storm water plans (i.e., SWPPPs, ESCPs, SWMPs, etc.) and over 6,000 storm water inspections in California.

Selected project experiences of ETIC's compliance services are presented in the following examples:

1. Shell Pond and Carbon Black Area
2. Hydrostatic Testing Program
3. Tehachapi Renewable Transmission Project
4. South of Birds Landing
5. Active Treatment System Design
6. Spill Prevention Control and Countermeasure Plans

3.1 Shell Pond and Carbon Black Area

Client:
Major Utility Company
Governed By the California Public Utilities Commission

Location:
Bay Point, California

Duration of Project:
2011- present

Services:
- Storm Water Pollution Prevention
- Biological Compliance
- Air Quality
- Water Quality
- Phytoremediation

Project Details
The Shell Pond and Carbon Black Area Project includes the remediation of a 72-acre former industrial waste pond and 22-acre former industrial waste disposal Carbon Black Area. The project site is a mix of open water habitat, tidal marsh sloughs, seasonal wetlands, and ruderal upland areas. In 2011, excavation and dredging activities commenced as part of the remedial work plan. Construction activities were halted 2012 after public health concerns were identified. ETIC has maintained compliance with environmental requirements before, during, and after construction shutdown.

Our Approach
ETIC is currently providing turnkey environmental compliance services including storm water pollution prevention, biological monitoring, air quality monitoring, water quality sampling, feasibility study, and phytoremediation support.

ETIC prepared and is maintaining the Storm Water Pollution Prevention Plan (SWPPP), prepared permitting documentation, prepared and is performing SWPPP training for project personnel and contractors, and is performing SWPPP compliance inspections and monitoring. In addition, ETIC installed and is maintaining best management practices (BMPs) and has dewatered areas of accumulated storm water at the site.

Several species and/or habitats of concern or located within a 1-mile radius of the project boundary including Salt Marsh Harvest Mouse, Burrowing Owl, California Black Rail, California Clapper Rail, Killdeer, Western Pond Turtles, Red-winged Black Bird, and Suisun Song Sparrow. ETIC has provided biological monitors to clear all work zones, escort workers onsite, and conduct sensitive environmental awareness training. In addition, ETIC's biologists have maintained compliance with the requirements set forth in the California Endangered Species Act.

After construction activities ceased, ETIC was tasked with conducted all air and water quality sampling and monitoring in addition to supporting alternative remediation options. ETIC has conducted a feasibility study and pilot test for phytoremediation that included planting and analysis of phytoremediation plots. This work is still being conducted.

3.2 Hydrostatic Testing Program

Natural Gas Pipelines

Location:
California (statewide)

Duration of Project:
April 2011-present

Services:

- Storm Water Pollution Prevention Plans
- Leak Response Plans
- Hydrostatic Test Water Management
- Environmental Inspectors

Project Details
ETIC provides environmental compliance services to a major California Public Utility Company for their Pipeline Safety Enhancement Program (Program). The Program is one element which seeks to modernize the company's gas transmission pipeline system and address new standards and controls being set by the California Public Utilities Commission for all California intrastate natural gas transmission operators.

The Program involves pressure testing segments of gas transmission lines where strength-test records are not available. After being isolated and vented, the pipeline segment is filled with water and pressurized to the test pressure for at least 8 hours. The water used in the pressure test may be contaminated with hydrocarbons, metals, or other contaminants introduced during pipeline operations and testing. The used water is filtered through bag filters and granular activated carbon prior to being disposed to a POTW or land. The Program commenced in 2011, in which ETIC provided environmental planning and field support services for 97 hydrostatic pressure tests for over 152 miles of "priority" pipelines. ETIC has continued to support the Program and services an average of 100 test locations each year spanning the state of California from Arizona to the Oregon border.

Our Approach
ETIC is part of the Program's Environmental Compliance, Land Rights, and Permits team. ETIC manages the storm water permitting under the National Pollutant Discharge Elimination System Construction General Permit including preparation of Storm Water Pollution Prevention Plans (SWPPPs) and filing of Permit Registration Documents with the four Regional Water Quality Control Boards under whose jurisdiction the Program fell. In addition, ETIC provides Qualified SWPPP Developer and Qualified SWPPP Practitioner services and conducts daily and storm event inspections for storm water compliance. A SWPPP amendment is completed for each test location. ETIC also prepares Leak Response Plans and provides contractor training on the plans to respond to potential hydrostatic test failures. ETIC collects water samples to verify water quality compliance with discharge permits. ETIC also provides environmental inspectors in support of the Program Environmental Compliance Management Plan responsible for compliance with all applicable environmental permits and land agreements. The environmental inspectors review applicable plans, permits, and specifications to assess the work areas before testing began, documented compliance, and acted as a liaison between construction personnel and agency field representatives.

Benefits & Value
ETIC was able to balance the multiple constraints, adhere to a challenging and changing schedule, and maintain flawless environmental compliance throughout the project.

3.3 Tehachapi Renewable Transmission
Segments 4, 5, and 10

Client:
Henkels & McCoy

Location:
Kern, Los Angeles, and San Bernardino Counties, California

Duration of Project:
2010-2012

Services:
- Storm Water Compliance
- Biological Compliance
- Environmental Monitoring

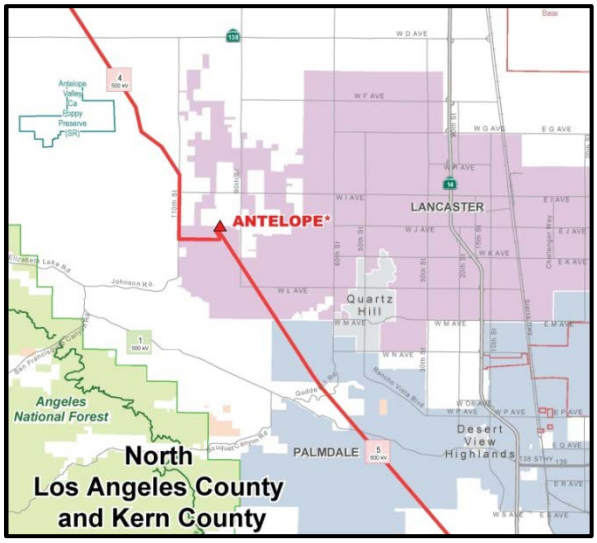
Project Details
The Tehachapi Renewable Transmission Project involves construction of new and upgraded transmission infrastructure, spanning over approximately 173 miles for Southern California Edison. Segment 4, 5, and 10 consisted of a 51 mile 500kV transmission line. ETIC provided Environmental Compliance Support for construction that crossed desert transitional zones, oak woodland habitat, native grasslands, and various stream courses and dry washes.

Our Approach
ETIC was responsible for storm water and environmental compliance. ETIC prepared the Storm Water Pollution Prevention Plans (SWPPPs) for three temporary construction yards and one Erosion and Sediment Control Plan for an area of construction that was less than 1 acre in size. In addition, ETIC was responsible for field inspections and monitoring to evaluate the progress of construction and compliance with the SWPPP, Emergency Response Plan, Soil Management Plan, Spill Prevention Control and Countermeasure Plan, Hazardous Materials Business Plan, Dewatering Plan, and associated permit requirements.

In addition, qualified biologists from ETIC also provided biological monitoring in accordance to the project-specific construction plan. The monitoring ensured impact avoidance to sensitive species by checking equipment as it entered and exited the project areas and by monitoring throughout construction. Our biologists provided all deliverables for project compliance, such as daily and weekly monitoring reports.

The species and habitats of concern on the project include:

Arroyo Toad	Burrowing Owl
Desert Tortoise	Nesting Birds
Swainson's Hawk	



3.4 South of Birds Landing

230 kV Transmission Line Reconductor Project

Client:
Major Utility Company
Governed By the California Public Utilities Commission

Location:
Solano, Sacramento, and Contra Costa Counties, California

Duration of Project:
2009 – 2011

Services:
- Storm Water Compliance
- Storm Water Pollution Prevention Plan
- Best Management Practice
- Site Restoration

Project Details
The South of Birds Landing 230 kV Transmission Line Reconductoring Project was needed to accommodate wind energy facilities in the Montezuma Hills in Solano County and involved the reconductoring of 11 miles of 230 kV transmission line. The majority of the project spanned an area predominately used as dry-land wheat farming and livestock grazing (sheep). The northern portion of the project is located in the northwestern portion of the Collinsville - Montezuma Hills Wind Resource Area. The southern portion of the project is adjacent to the Antioch Dunes National Wildlife Refuge and spans residential, industrial, and agricultural portions of Antioch.

Our Approach
ETIC storm water professionals prepared, maintained, and amended the project SWPPP and performed the SWPPP compliance inspections and monitoring throughout the duration of the construction activities. ETIC construction personnel installed, maintained, and repaired the recommended Storm Water Pollution Prevention and biological protection BMPs, which included tracking control, S-Fence for sedimentation concerns, E-Fencing for biological controls (endangered species protection), and jute netting, and hydroseeding using indigenous seed species.

The project was performed in compliance with the requirements set forth in the following permits:
- California Environmental Quality Act – Final Environmental Impact Report
- State Water Resources Control Board – General Permit for Storm Water Discharges Associated with Construction Activity
- Approved by the California Public Utilities Commission

The species and habitats of concern on the project included the:
- California tiger salamander
- Vernal pools
- Seasonal wetlands

The SWPPP routine site inspections included before, during, and after precipitation events to monitor BMPs and document any storm water concerns. Recommendations for BMP repair and/or maintenance were recorded and ETIC construction personnel performed the necessary BMP maintenance and/or repairs. ETIC storm water professionals submitted and received site closure from the Regional Water Quality Control Board.

3.5 Active Treatment Systems

Storm Water Engineering

Client:
Major Utility Company Governed By the California Public Utilities Commission

Location:
California

Services:
- Storm Water Compliance
- Storm Water Pollution Prevention Plan
- Active Treatment System

Project Details
Between the United States Environmental Protection Agency's proposed Effluent Limitation Guidelines and the Storm Water Construction General Permit a better focus and accountability on standard erosion and sediment control is a necessity for all dischargers. Active treatment systems are required for sites that discharge storm water directly to a water body listed on the Clean Water Act Section 303(d) or permanent storm water drainage systems. Storm water may only be discharged if the storm water meets the chemical and sediment monitoring plans specified in the applicable permit.

Our Approach
ETIC's engineering department has effectively worked with local, state, and federal oversight agencies to design and implement active treatment systems to reduce storm water turbidity for a major utility client. Two selected active treatment systems are described below:

Atlantic Substation
ETIC designed a 1,000-gallon-per-minute surface active treatment system tailored to reduce turbidity, which included installing four 20,000-gallon storage tanks, a chitosan polymer flocculation metering/mixing system, sand and bag/cartridge filtration units, and multiple extraction and discharge pumps prior to discharge to the drainage channel. The premise of the treatment system consists of four collection pits within the substation area, which pumped collected storm water to the four 20,000-gallon storage tanks for treatment. The turbidity of the discharged water was consistently less than 20 Nephelometric Turbidity Units. The system was installed in late 2009 and was decommissioned in 2011.

Telse Substation
The active treatment system was designed to treat turbid storm water impacted with suspended sediments and elevated pH (dissolved calcium). The active treatment system consisted of a collection impoundment, a pre-treatment unit, two 21,000-gallon tanks, one submersible and one transfer pump, a control unit for automated measurement of active treatment system parameters, bag and cartridge filters, a sand filter, and piping. The design also included the use of chitosan for treating turbidity and carbon dioxide (CO_2) or citric acid for adjusting the pH. The system was installed in 2012 and was decommissioned in 2013.

3.6 Spill Prevention Control and Countermeasure Plan

Client:
Major Utility Company
Governed By the California
Public Utilities Commission

Location:
California

Duration of Project:
August 2009 – ongoing

Services:
- Compliance

Project Details
Our client was required to complete a 5-year review of spill prevention, control, and countermeasure (SPCC) plans for their facilities. ETIC was tasked to review and update the plans requirements for oil spill prevention, preparedness, and response to prevent oil discharges to navigable waters and adjoining shorelines regulations.

Our Approach
ETIC Professional Engineers (PEs) updated over 45 spill prevention control and countermeasure (SPCC) plans at various power generation and gas facilities throughout the Client's service area. ETIC performed site visits to each facility, updated facility diagrams showing drainage patterns, prepared oil spill predictions, review site security, updated loading and unloading requirements, personnel training and documentation, and updated facility inspections and documentation requirements and bulk storage container compliance requirements to ensure compliance with 40 CFR Part 112. Each SPCC plan was re-designed by our PEs and the plans were submitted for final review and approval.

Benefits & Value
ETIC has established a strong working relationship with this client and in doing so has become very knowledgeable about the clients facilities. ETIC was able to complete this project under a rapid timeline and allow extra time for client review and address future needs.