

GREENE & ASSOCIATES, INC.

PROJECTS EXPERIENCE LIST

EXPERIENCE AND QUALIFICATIONS

Greene & Associates, Inc. ("G&A") is a Dallas, Texas, USA area based consulting and engineering firm which specializes in working for operating companies, engineering and construction companies, law firms, insurance companies, governmental agencies and financial companies on issues concerning oil and gas, refining, petrochemical, chemical, environmental health and safety, and pipeline industries. Our expertise is in cause and origin studies, plant fire and explosion investigations, plant process studies, failure analysis, property damage investigations, economic/lost profit analysis, market economics, project feasibility studies environmental assessments, pollution liability analysis, hazard analysis, health and safety studies, and project management for the mentioned industries.

During our several years of industry experience, our consultants and associates have performed technical work on many projects related to refining industries, petrochemicals, chemicals process evaluation, market economics and studies, process economics, feasibility studies, project investment analysis, project finance and other similar issues.

FACILITY APPRAISALS, EVALUATIONS AND FAIR MARKET VALUE DETERMINATIONS

G&A's economic and physical appraisals of petroleum refining, gas processing, chemical manufacturing and other processing facilities have evaluated:

- Investment and operating costs
- Contracts on which a project is based
- Feedstock and product markets
- Environmental/health/safety standards and compliance
- Financial requirements
- Labor conditions

The firm's studies have considered engineering and construction costs and timing; operating and maintenance requirements and practices; and shutdown and mothballing procedures. Our appraisals and surveys have been used by insurance companies and their insured to determine values for new, modified or existing facilities before and after losses; tax authorities for tax valuations and investors/lenders for project assessment.

Fair market value determinations by Greene & Associates, Inc. of petroleum refineries, gas plants, transmission facilities, and chemical plants have been used by individuals and corporations for the following:

- Planning
- Allocating values

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- Acquisitions and sales
- Litigation
- Arbitration and Mediation
- Bankruptcy

Reports by our firm have been recognized in courts, by local and federal government agencies, and in private transactions.

MARKET STUDIES, FEEDSTOCK AND PRODUCT EVALUATIONS

The firm studies relevant national and international factors related to the energy and chemical markets. For specific projects, local and short-term adjustments are incorporated into the evaluations.

The firm monitors various feedstock and product markets, government regulations, and contract trends. It provides advice and assistance to clients in matters related to contract prices, escalation clauses, quality adjustments, etc. Our feedstock and product evaluations consider prices, volume supply and demand, location factors, and processing capabilities of the available facilities.

Projects:

- Aviation fuels distribution study
- U.S. Gulf Coast refinery requirements in the 1990's
- Propane pricing formula - U.S. East Coast Petrochemical client
- U.S. petroleum product demand projections
- Refinery feedstock pricing for Texas petroleum company
- California crude oil evaluations

FEASIBILITY STUDIES, DUE DILIGENCE, PROPERTY EVALUATION AND PROJECT REVIEWS

Feasibility studies, project reviews and project management analysis on projects for law firms, operating companies, engineering and construction companies, financial institutions, insurance companies, prospective purchasers and sellers, U.S. regulatory agencies, courts, and foreign governments have been prepared by Greene & Associates, Inc. Our project reviews were performed for refining, petrochemical, chemical, fertilizers, gas processing, and pipelines industries. These studies and reviews have been used in connection with:

- Research and development project evaluation
- Construction Contracts and Bids Negotiations
- Construction Disputes Negotiations
- Alternative Dispute Resolutions
- New plants and process additions
- Plant modifications
- Insurance liability and subrogation
- Filings with the Securities and Exchange Commission

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- Mergers and acquisitions
- Tax Evaluations

Projects:

- Feasibility and site selection study 200,000 BPD refinery and transshipment terminal, Caribbean
- Site selection study 100,000 BPD petroleum refinery, New England
- Feasibility and site selection study 40,000 BPD petroleum refinery, Latin America
- Feasibility study methanol and LNG production, Middle East
- Feasibility study ethanol plant, Northwest U.S.
- Project review of 150,000 BPD Southeast U.S. petroleum refinery.
- Evaluation of petrochemical and chemical plants in U.S.
- Performed project investments costs and analysis, market studies and process selection studies for a Turkmenistan fertilizer plant for an investment group
- Performed feasibility study and cash flow analyses for G&A and another investment group concerning a multi-billion dollar petrochemical fertilizer complex in Mexico.
- Performed a refinery feasibility study and market studies for a Canadian investment group for a Lebanese Refinery
- Performed an investment analysis and investment proposal for a New York based investment group for a refinery in Kazakhstan
- Provided assistance to a governmental organization on issues related to refined product claims. Project involved performing calculations for various pricing data, analyzing claims and statistical analyses of crude oil and refined product pricing
- Performed an investment analysis and cost study for a financial institution buying a small Texas Refinery
- G&A performed insurance inspections and loss control studies of 200, 000 BPD refinery relocate to Daesan, Korea from Freeport, Texas, United States
- Performed pricing studies on lawsuit concerning ethylene (petrochemical) manufacturing plant in Louisiana for a Houston based law firm
- Performed pricing studies, supply demand analysis for a Chicago based law firm concerning a fertilizer plant in Louisiana concerning a plant explosion damage
- Worked as project, technical and start up advisor for Thai Olefins Company petrochemical plant
- Performed project cost studies on reconstruction of a fertilizer facility in Iowa for multiple insurance companies
- Performed a feasibility study for a Alberta Canada Fertilizer facility
- Performed evaluations for Joplin Missouri Fertilizer Complex
- Performed insurance and risk evaluations at various refineries, petrochemical plants and chemical plants for PEMEX in Mexico
- Performed project management and director of construction of large ammonia storage terminal and sulfuric acid based fertilizer complex in El Salvador

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Appraisals

Greene & Associates, Inc. has appraised:

- Far East refining complexes
- Lube oil blending plant for bank
- Northwest U.S. petroleum refineries
- Gulf Coast petrochemical plants
- Chemical plants in New Jersey and Puerto Rico

Greene & Associates, Inc. has evaluated:

- 20,000 BPD Southeast U.S. petroleum refinery
- 30,000 BPD Western U.S. petroleum refinery
- Project Economics for Mexican Petrochemical Plants
- European petroleum refinery
- International Petrochemical Projects
- Natural gas processing plants in South Central U.S.
- 60,000 BPD petroleum refinery for foreign investors
- 100,000 BPD petroleum refinery for domestic/foreign investors
- Numerous oil ,gas and chemical processing and transportation facilities for a major national oil company
- Oil and gas properties, gas gathering pipeline investment, project future revenue, and recommend purchase offer
- Gas processing proposals
- Bid to purchase interests in gas plants and associated gathering systems

Greene & Associates, Inc. has made fair market value determinations for:

- U.S. Gulf Coast refineries and petrochemical complexes for tax assessment purposes
- U.S. Gulf Coast chemical plants for foreign chemical company
- Other US Refineries, Petrochemical Plants, Chemical Plants Cogeneration Facilities
- Performed economic evaluations and prepare replacement cost estimates for refineries in Texas and Louisiana
- Prepared a Fair Market Value (FMV) Evaluation/Appraisal of a Central Texas refinery.

Greene & Associates, Inc. has provided technical assistance to government agencies:

- Correlated petrochemical plant replacement cost with plant size
- Reviewed costs and efficiencies of power generation processes
- Evaluated lead contamination from lead smelter

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- Reviewed U.S. PVC plant emissions and operating practices
- Conducted tetraethyl lead phase-out studies
- Evaluated bromine plant
- Evaluated the economic value of crude, oils and the product yield patterns for certain U.S. and European refineries as a function of crude oil feedstock.

The firm has reviewed natural gas processing:

- Proposed gas contract and recommended alternatives or modifications
- Gas plant operations - also recommended bidders for plant operator and evaluated bids
- Monthly producer payments for contract compliance

Greene & Associates, Inc. has prepared:

- Future net revenue report for pipeline company's gas processing facilities for SEC reporting

LITIGATION SUPPORT AND ARBITRATION

Greene & Associates, Inc. has provided expert witness and technical expert services on lawsuits involving:

Process, Operations and Equipment

- Barge explosion
- Tankfarm fire and explosion
- Hydrocracking unit fire
- Reforming unit fire
- Fluid coking unit damage
- Hydrogen sulfide release
- Alkylation and reforming unit damage
- Furnace tube failures
- Metallurgical problems in process units
- Gas compressor failures
- Hydrocracker accidents
- Ethylene meter station accident
- Asphalt and gas plant evaluations
- Improper design and operation of gas plant
- Ruptured gas lines
- Process hazards
- Process reviews
- Natural gas plants
- Plant explosions and fires
- Furnace Design

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Property Damage and Business Interruption

- Ammonia plants
- Refineries
- Petrochemical Plants (Ethylene plants)
- Gas plants
- Chemical Plants
- Oil and Gas properties, platforms and pipelines
- Industrial facilities
- Hazardous waste facilities
- Pipelines

Business, Finance and Project

- Project economics
- Construction disputes
- Contract Delays
- Breach of fuel oil contracts
- Excessive turnaround costs
- Project management
- Project Economics
- Construction Delays
- Plant equipment
- Plant automation
- Sale and purchase of feedstocks
- Refinery and petrochemical product quality
- Plant evaluations
- Mergers and acquisitions
- Bankruptcies
- Lost yields in refinery operations
- Price fixing of petroleum and its products
- Facility values ,cost estimates and cost segregation

Environmental, Health and Safety

- Pipeline leaks
- Regulatory problems
- Hazardous gas releases
- Superfund sites
- Hazardous waste contamination
- Refinery sabotage
- Industrial hygiene
- Environmental liability
- Groundwater contamination
- Environmental Due Diligence
- OSHA Matters

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- Personal Injury and Wrongful Death

Miscellaneous

- Crude oil pipeline accident
- Truck loading accident
- Pump failures
- Propylene shipment by tanker
- Waste water and storm water pipeline damage

Typical lawsuits we have represented:

- Provided assistance to attorneys in arbitration of \$300 million disagreement between fuel and oil purchaser buyer.
- Provided assistance to attorneys in a research project concerning use of asbestos in refineries, petrochemical plants and other industrial facilities.
- Provided assistance to attorneys in a lawsuit concerning the failure of a valve in a refinery. Worked on issues concerning cause and origin, and business interruption. Provided testimony.
- Provided assistance to attorneys in a lawsuit related to ethylene plant furnace tubes failure on issues concerning cause and origin, business interruption, insurance policy interpretation and property.
- Provided assistance to attorneys representing engineering and construction company in a multi-million dollar lawsuit related to petrochemical (ethylene) plant on issues concerning plant performance, furnace design and performance, and plant automation.
- Provided assistance to attorneys representing engineering and construction company in a multi-million dollar lawsuit related to olefins (ethylene) plant expansion project on issues concerning process, plant performance, equipment, plant production, project management and project economics.
- Provided assistance to attorneys in a lawsuit concerning refinery fire. Worked on property damage and business interruption.
- Provided assistance to attorneys representing E&P Company in a lawsuit concerning contamination caused due to leaks from pipelines. Worked on issues concerning pipeline standards, regulations, industry practices and related contamination.
- Provided assistance to attorneys in a case related to Superfund laws and related environmental laws. Provided testimony.
- Provided assistance to attorneys representing insurance companies in a groundwater contamination case on matters concerning historical pollution and cleanup costs. Provided testimony.
- Provided assistance to attorneys representing a contractor in arbitration related to offshore platform equipment construction problems caused due to vendor delays and breach of contract.

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- Provided assistance to attorneys in a lawsuit concerning poly-olefins plant explosion on matters related to process design and cause of the explosion.
- Provided assistance to attorneys in a lawsuit concerning supply of contaminated crude oil that caused problems in a refinery.
- Provided assistance to attorneys in a lawsuit concerning fertilizer plant explosion on matters related to property damage and business interruption. Provided testimony.
- Provided assistance to attorneys in a lawsuit related to chemical plant explosion. Provided testimony.
- Provided assistance on a lawsuit involving specialty petrochemical manufacturing facility and major oil company related to a manufacturing facility for lost profits due to failure to supply of the feedstock for his facility.
- Provided assistance on a lawsuit involving a valve manufacturer and an oil company/petrochemical company concerning litigation related to an explosion at an ethylene plant due to valve failure on issues related to cause and origin, process failure, property damage, business interruption due to production losses (lost profits), operations, and maintenance and contributory negligence.
- Provided expert testimony on a lawsuit filed in the U.S. Bankruptcy Court involving two operating companies on matters related to fair market value/economic value of an idle refinery.
- Provided assistance on a lawsuit between a refiner and a construction company Refining company was suing the construction company refinery caused by an incident for property damages and lost profits.
- Provided assistance on a lawsuit between a refiner and a power company. Refining company was suing the power supplier for on issues related to process, contractual issues, business interruption (lost profits), production analysis, and facility operations because of electric power failures at the refinery. Worked on issues related to process, contractual issues, property damage, and facility operations.
- Provided assistance on a lawsuit concerning an environmental claim for a commercial/residential property for a law firm representing a corporation against an insurance company. Prepared the claim and the interpretation of the liability based on environmental damage clauses in the policy.
- Provided assistance to a governmental organization on issues related to refined product claims. Worked for the legal department of the organization.
- Assisted a law firm on a law firm concerning construction dispute and project management problems relating to refinery unit at one of the West coast refineries
- Hired by a governmental agency on a lawsuit related to merger and acquisitions issues of two major oil companies. We worked on issues related to west coast oil exploration and production, oil supply and demand, refiners and their refining capacities, refining products marketing, and impact of merger on the west coast markets.
- Hired by a law firm representing the E&C Company concerning an arbitration related to project delays in manufacturing pressure vessels by the vessel manufacturer and consequential damages to the overall project.

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- Assisted attorneys on matters related to oil and gas property (natural gas wells) economic damages due to contract fraud and dispute.
- Assisted attorneys on matters related to lost profits on matters related gas losses due to pipeline damage.
- Advised attorneys in case alleging poor quality crude oil was received for several years from large petroleum corporation.
- Assisted attorneys defending an engineering and construction company against an unfriendly takeover.
- Assisted attorneys and provided testimony in personal injury cases related to accidents, fires and explosions at chemical plants, petrochemical plants and refineries.
- Served as arbitrator in LPG tanker product loss dispute.
- Assisted attorneys in a case involving allegations that contractor improperly constructed a “grassroots” oil refinery.
- Review and determine physical monetary losses from an attempted recompletion of a well in the Fry Sand in Runnels County that experienced problems with the cementing of the long string and resulted in excessive water production.
- Review and provide assistance to law firm with deposition on and oil field accident involving a large completion rig over a hole in West Texas, injuring several of the workers.
- Provide technical assistance in preparation for litigation on gas wells located onshore in South Texas to client representing a large privately owned operator/producer.
- Review incident in large South Texas natural gas plant and give deposition testimony concerning the cause and origin of the explosion and fire that occurred during welding operations.
- Review incident on large natural gas transmission system pipeline that was sold and being retrofitted into gathering system that had an flash fire (potential explosion) resulting in the death of one welder and critical injuries to several other parties.
- Determine physical monetary damages to a privately owned oil and gas exploration company operating in the Barnett Shale area northwest of Fort Worth, Texas, who suffered royalty losses (lost profits) due to outside third party liens being placed on currently active potential drill sites (gas wells) that were illegally encumbered by illegal claims.
- Provide deposition and court testimony concerning the proper FERC (modified) tariffs for transportation of oil from Gulf of Mexico, on the South Pass 89 and one of the West Delta platforms to shore in Venice, LA. Provide expert testimony on oil spills potential damage, the difficulty in obtaining pollution and liability insurance for any type of oil pollution, the hazards of operating offshore and related risks.
- Provide deposition testimony in an oil and gas case between an oil and gas property owner against fishing and well services company on cause of an incident related to drilling operations (milling/fishing). G&A assisted on matters related to cause of the incident and monetary damages (actual losses and lost

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profits) due to loss of a helium production well, and subsequently loss of Grade-A helium production from the manufacturing plant.

More information related to lawsuits is listed in environmental consulting services section below.

INSURANCE COMPANIES AND FINANCIAL INSTITUTIONS

- Prepared basic feasibility studies for grass-roots facilities; physical and economic evaluations of refineries.
- Prepared investment analysis for Mexican petrochemical plant
- Prepared property damage and business interruption insurance claims; reports on insurable value for refineries, petrochemical plants and chemical plants and related facilities; environmental, health and safety audits and preparing risk assessments. Investigating the cause of accidents.
- Worked as technical advisors and project monitors on numerous insurance claims related to gas plants, refineries, petrochemical plants, chemical plants, tank farms, terminals, industrial plants and hazardous waste incineration facilities.
- Evaluating site locations, including access to pipelines, waterways, utilities, support facilities, and product markets; bids from contractors, licensors and equipment suppliers.
- Advising U.S. and foreign governmental agencies in matters involving taxes, guaranteed prices and environmental, health and safety concerns; investors during merger and acquisition of refinery assets; advising in negotiation of claim settlements.
- Representing clients at governmental hearings on matters, such as crude oil and product pricing and tax issues, presenting technical and economic facts and opinions in liability suits.
- Providing objective reviews of capital, operating, and/or maintenance costs and practices.

ACCIDENT INVESTIGATIONS, INSURANCE CLAIM REVIEW AND NEGOTIATION ADVICE

Greene & Associates, Inc. consultants have investigated for various clients - cause and origin of various incidents involving reformer catalyst poisoning in refinery, furnace tubes failure in an ethylene plant, tubes failure in an ammonia furnace, explosions at a fertilizer plant, ethylene plant accidents, oil and gas (wells) property accidents, hydrocarbon fires and explosions, underground natural gas storage, tank farm fires, valve failures, and fires and explosions at a refineries/petrochemical plants and chemical plants.

We have analyzed and prepared claims and estimates for property (physical) damage and business interruption (lost profits) issues for incidents caused by fires, explosions, accidents, design defects and environmental issues. These claims were related to

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refineries, gas plants, ethylene plants, chemical plants, oil and gas properties, tank farms, pipelines and chemical facilities. We have also worked on claims for asbestos and lead cleanup. We have also prepared claims for lost profits due to project delays, breach of contract, and turnaround costs for process industries.

We have advised and negotiated major insurance claims (property damage and lost profits) concerning refineries, petrochemical plants and chemical plants. Furthermore, on some of the claims we have advised during mediation of lawsuits.

PROJECT MANAGEMENT

We have provided project manager consulting services to various companies and firms. Additionally we acted as technical advisors and project monitors for institutions and insurance companies (on plant reconstructions). We have developed and analyzed project schedules, performed project audits, developed project budgets and estimates, identified delays in construction projects and disputes, and developed construction claims, consequential damages and lost profit claims for project delays.

- Project progress review and analysis for refineries and petrochemical plant construction.
- Project management for refinery and ethylene plant construction and reconstruction.
- Project monitoring for owners/investors – refineries, petrochemical plant and chemical plants.
- Progress review and analysis for construction disputes and projects.
- Project review and management for chemical plants construction projects.
- Project progress review related to reconstruction of chemical plants and industrial facilities destroyed in explosion/fire for insurance companies.
- Owners' representatives in selecting engineering and construction companies for petrochemical plants.

PROCESS

We have provided consulting services on matters concerning refining, petrochemical and chemical processes. These services have been used in connection with:

- Process unit problems
- Production problems
- New plants and process additions
- Feedstock selection for petrochemical facilities
- Furnace problems at Ethylene Plants
- Health and Safety issues
- Process automation
- Cause and origin for process unit failures
- Process reviews for petrochemical plants and refineries

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- Plant and process modifications
- Electrical problems at refinery units
- Metallurgical problems at refinery units

TECHNICAL ASSISTANCE

- Correlation of petrochemical replacement costs with plant size.
- Review of costs and efficiencies of power generation processes.
- Advised on airborne pollutants.
- Prepared Tetra Ethyl Lead studies.
- Advised on furnace technology for ethylene and ammonia plants
- Selection of process for chemical facility.
- Selection of process for ethylene facility.
- Advised on startup and commissioning of ethylene plants.
- Advised on selection of furnace tubes for ethylene furnaces.
- Advised on use of fuel additives.
- Advised on availability of used refineries and chemical plants.
- Advised on availability of new and used equipment for chemical plants.
- Advised regarding cleanup and remediation for a polluted site.
- Advised on metallurgical failures.
- Advised on plant automation.
- Advised on good engineering practices and industry standards.

ECONOMICS AND PROJECT FINANCING

- Evaluation of economic value of crude oils, products and the product yield patterns for certain U.S. and European refineries as a function of crude oil feedstock.
- Calculation of economic effects of property losses.
- Advised on project financing for refinery projects.
- Advised on financial requirements for a refinery project.
- Advised on availability of finance for major projects and ventures.
- Advised on investment and operating costs for refineries, petrochemical costs and gas processing.
- Performed technical and economic critique of project investments.
- Evaluated gas gathering pipeline investment, project future revenue and recommended purchase offers.
- Prepared future net revenue report for pipeline companies gas processing for SEC reporting

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CONTRACTS AND BIDS

- Advised on construction contracts/disputes related to refineries and petrochemical plants.
- Evaluated operations and maintenance bids and contracts for petrochemical facilities.
- Advised on feedstock contracts for ethylene plants.
- Advised on product pricing and contracts for refineries.
- Advised on gas contracts.
- Advised on bids to purchase gas plants and gathering system.
- Advised on bids for oil and gas properties.
- Advised on contracts for oil and gas leases.
- Advised on vendor and sub-vendor contracts for major projects.

TECHNOLOGY SERVICES

- Advised regarding simulation packages for ethylene plants, refineries and chemical plants.
- Advised on yield models for refineries.
- Advised on issues related to plant automation.
- Advised on issues related to enterprise resource planning packages.
- Advised on issues related to systems and applications update.
- Advised and used project management software applications.
- Advised and used statistical models.
- Advised and developed statistical computer models for international crude oil pricing.

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ENVIRONMENTAL, HEALTH AND SAFETY CONSULTING SERVICES

In addition to providing conventional environmental health and safety (EH&S) consulting services, Greene & Associates, Inc. also provides an advanced solution approach to your environmental problems. We do this by looking beyond the problem itself to the causes and impacts of the problem. Additionally, Greene's consultants approach the overall problem and solution from the client's perspective, in particular the impact on the financial bottom line. As problem solvers, we use our vast process industry experience to help the client first clearly define the problems and then solve them.

Greene's typical EH&S consulting services on projects include the following:

Litigation

- Provided assistance to law firms on a merger and acquisition case between two chemical companies on environmental and safety issues. Environmental issues involved violations related to emissions from various process units and tanks. Performed investigations. Worked on process issues related to these environmental problems including matters concerning API, ASTM and ASME standards. Worked on various pollution equipment and remedial cost claims.
- Provided assistance to a law firm on safety issues of the above case between two chemical companies on matters related to PSM and PHA aspects of OSHA regulations that involved multiple issues.
- Provided assistance to a law firm representing a city and several plaintiffs against a major oil company on a lawsuit related to an old refinery pollution liability issues including facility history, historical standards and regulations, operations and maintenance, and aspects related hydrocarbon contamination (benzene).
- Provided assistance to a law firm representing an oil and gas exploration and production on a lawsuit related to environmental (air) pollution problems.
- Provided assistance to a law firm representing a major oil company on a lawsuit related to refinery pollution problems.
- Provided assistance to a law firm representing a City Government on issues related to hydrocarbon contamination of the groundwater during construction of train tunnel from various underground storage tanks (UST).
- Provided assistance to a law firm representing a major West Coast Oil Company and the company on a lawsuit related to historical hydrocarbon contamination due to oil and product pipelines and tank terminals, including issues related to operations and maintenance, regulations, codes and standards.
- Provided assistance to a law firm representing an oil company on a lawsuit related to Superfund (CERCLA) site in determining, identifying, quantifying and characterizing wastes (hazardous and non-hazardous) from various chemical and industrial facilities in a certain geographical area.
- Provided assistance to law firm representing insurance companies regarding historical pollution and liabilities at a refinery.
- Provided assistance to a CA law firm on a refinery benzene exposure case.

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- Provided assistance to a law firm representing a major chemical company on a lawsuit with issues concerning waste identification and characterization from different chemical and industrial facilities to a Superfund (CERCLA) site. Assistance involved issues related to pollution liability and cost recovery.
- Provided assistance to a law firm representing a petroleum company on a CERCLA lawsuit with issues concerning identification, comparison and characterization of wastes based on environmental regulations.
- Provided assistance to a law firm representing a chemical company on a lawsuit related to economic value and processing capabilities of certain process wastes from a petrochemical facility.
- Provided assistance on a lawsuit related to environmental process equipment at an ethylene facility. In addition, worked on matters related to Process Safety Management (PSM) and Process Hazard Analysis (PHA) issues.
- Provided assistance to a law firm representing insurance companies on a pollution liability lawsuit related to historical contamination at a tank farm (above ground and underground storage tanks).
- Provided assistance to a law firm representing an insurance company on a chemical/polymer plant fire and explosion case on matters related to cause and origin, chemical process and OSHA matters.
- Provided assistance to a law firm with a study concerning asbestos in refineries, petrochemical and chemical plants.
- Provided assistance to a law firm on issues concerning historical environmental regulations (CERCLA, RCRA, TSCA, CWA, CAA and others).

Technical/ Insurance/Economics

- Assistance in problem definition and strategies for addressing complex environmental problems followed by innovative, cost effective solutions.
- Source identification, elimination, and/or control for process unit air contaminants, wastewater, and hazardous wastes.
- Waste Minimization/Source Control, often accompanied by significant cost savings over treatment alternatives.
- Economic/benefits assessments of environmental problems and needs.
- Energy and Environmental Policy/Economics.
- Consulting assistance on current air, wastewater, hazardous waste, and groundwater/subsurface issues.
- Determination of pollution liability and related costs.
- Codes, Standards and Recommended Practices Review.
- Expert testimony with experience covering the entire history of the Environmental Movement in the U.S.A.
- Historical review of site activity, hazardous waste sites and asbestos usage at facilities.
- Startup/operating assistance with treatment units, and treatment unit performance evaluation.

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- Operations and Maintenance Procedures Review. Process Design/Project Management Oversight.
- Preparation of insurance claims related to pollution at petrochemical plants and chemical plants.
- Review of cleanup costs related to insurance claims and losses.
- Preparation of insurance claims related to pollution liability at a residential /commercial property.

Investigations

- Investigation of a wind turbine project site for contamination due to presence of pollutants/chemicals, which were initially suspected to be cause of foundation failures.
- Investigation of oil spills at a governmental facility.
- Investigation of a major chemical spill at a fertilizer plant after an explosion which damaged the plant and the tanks.
- Investigation of pollution related costs at an ammonia plant.
- Investigation (assessments and audits) of refineries, petrochemical plants and chemical plants to assess environmental problems.
- Investigation of hazardous waste disposal facility.
- Phase I and Phase II site investigations (facilities, process units, tank terminals, gas stations, etc.). Hydro geological investigations of sites.
- Environmental, health and safety audits of PEMEX refineries, petrochemical, chemical plants and storage terminals.
- Environmental and safety issues related to pipelines.

Regulatory

- Assistance in facilitating negotiation and representing the client in regulatory meetings.
- Strategic guidance in complex regulatory issues and sorting our overlapping regulatory requirements.
- Overall site assessment and inspection of facilities and pollution control equipment for compliance.
- Impact of various regulations on plant operations, process economics and overall project budget
- Economic impact of various regulations.
- Development of incident/compliance tracking and reporting systems.
- Implementation and upgrading of audit systems.
- Regulatory interpretation and implementation at the plant level.
- Integration of Risk Management into management decisions to reduce long-term liabilities and costs.
- Assistance with insurance coverage issues as related to environmental management.
- Assistance in organizing and managing a corporate environmental department.

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- Development and implementation of environmental policies.
- Assistance in developing and environmental management system.
- Identification of issues with respect to potential impacts on the client and strategically planning to mitigate the impact.
- Development and implementation of an accurate environmental cost accounting system. Environmental budget development.
- U.S. Code of Federal Regulations (CFR). Title 40 Protection of Environment Regulations
- Plants, Facilities, Buildings, Terminals and Pipeline - Assistance on projects and lawsuits on issues related to codes, standards and practices – API, ASME/ANSI, ASTM, NFPA, NACE, NLPA, NEMA, NEC, AWWA, Building Codes, ASCE, Factory Mutual Engineering, UL Standards and other applicable standards.
- LDAR and Benzene Waste Operations NESHAPs (BWON) practices
- Tanks and flares regulatory issues

Other Issues

- Determination of causes and effects of fires, explosions, spills and other sudden release environmental episodes.
- Due diligence for property sales and transfers including mergers and acquisitions.

HEALTH AND SAFETY

Greene & Associates, Inc. also provides and has provided a full range of health and safety consulting services on numerous matters related to refineries, petrochemical plants, chemical plants, gas plants and pipelines. Our services include the following:

Litigation

- Wrongful death cases
- Chemical exposure cases
- Benzene exposure cases
- Process equipment lawsuits related to health and safety aspects
- Tank terminals and farms equipment safety
- Overtime and safety issues
- Personal injury and wrongful death cases
- Plant accidents
- Refinery, petrochemical and chemical plant related occupational safety and health (29 CFR 1910) cases including process safety issues.
- Safety issues on fire and explosions matters.
- Gas plant safety issues.
- Gas Station fire, safety, spills and leaks

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Technical

- Accident Investigation
- Safety Engineering
- Corrosion Inspection/Control
- Codes, Standards and Practices
- Electrical Codes
- Structural Analysis
- Process and Equipment Performance Evaluation
- Materials Engineering Section

Inspections and Regulatory Compliance

- Process Plants and Tank Terminal Inspections
- Asbestos Assessment/Abatement
- Electrical Safety Inspections
- OSHA Regulations (29 CFR 1910) Safety Compliance Inspections
- Offshore Platform Inspections
- Oilfield Construction Safety Reviews
- Safety Assessments and Audits - Process Safety Management (PSM) and Process Hazard Analysis (PHA)

Surveys/Assessments

- Safety Policy and Procedures Evaluation
- Analysis of Noise Surveys, Ventilation Surveys and Heat Stress Assessments
- Facility Siting evaluations

Industrial Hygiene

- Accident Related Exposure Assessment
- Personnel Exposure Assessment
- Hazard Communications
- Industry Specific Evaluations
- Toxicology
- Illumination

G&A has on several projects and lawsuits related to various industry standards and governmental regulations on issues related to environmental health and safety standards, and federal, state and local regulations.