



EL DORADO TECHNICAL SERVICES, S.E.
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COMPANY PROFILE



TECHNICAL SERVICES, S.E.

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EL DORADO TECHNICAL SERVICES, S.E. is a Puerto Rican partnership formed in 1991. This limited liability partnership continued the corporate business of EL DORADO TECHNICAL SERVICES, INC. It, in turn, is associated with EL DORADO ENGINEERING CORPORATION, which was formed in 1959. The family of EL DORADO companies and its same partners have been conducting business in Puerto Rico and the Caribbean for 66 years.

EL DORADO has completed projects and provided services in Guyana, Venezuela, Puerto Rico, Colombia, Guatemala, El Salvador, Honduras, Paraguay, Jamaica, the US Virgin Islands, the Bahamas, Barbados, Bermuda, Haiti, Dominican Republic, Antigua, Grand Cayman and Barbados.

EL DORADO TECHNICAL is a general contractor primarily serving the industrial sector and more specifically in the petroleum Fuel Terminals. The major portion of our work is civil, structural, mechanical, instrumentation and electrical construction. In addition, we offer services for Engineering, Procurement, Construction and Commissioning (EPCC) Projects. We self-perform most of our project work.

Over the 66 years we have completed more than 2200 contracts. The majority of the contracts are repeat orders for established clients.

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ENGINEERING SERVICES

EL DORADO TECHNICAL SERVICES, S.E. can provide engineering from minor Modifications to complete project designs (in association with partnered local or Stateside firms), that include:

Process Design:

New projects, revamps and additions to existing terminals and other Industrial Complex's

Control Systems:

Development and application of Terminal functional PLC control systems that include load rack controls, pump controls, electrical power house controls, SCADA systems, Tank Management Systems, Terminal Automation Systems, etc.

Material Handling:

Bulk liquid and package handling for all types of materials and equipment.

Large scope engineering projects are also sometimes conducted jointly with associated U.S. engineering firms. Smaller projects are engineered in-house. Various types of inspection and consulting services are also offered.

CONSTRUCTION SERVICES

All disciplines, including purchase responsibility. These include site development, environmental studies and remedies, civil and underground, piling, pipelines, pipe fabrication, structural steel, installation of equipment, cooling towers and process units, electrical systems, tank construction, loading racks, instrumentation, painting and coating systems. Start-up and commissioning assistance can be also be furnished.

MAINTENANCE SERVICES

Contract maintenance for extended period and turnaround repair services are offered. Repairs to piping, equipment, storage tank facilities, dock repairs, tank farms, electrical facilities, Loading Racks, etc.

PREFABRICATED PROCESS SKIDS

Design, procurement, fabrication, installation and commissioning of process skids such as load and off-load truck skids of combustible fuels like gasolines, diesels, fuel oils, kerosene and Jet fuels. Also includes metering skids, LPG load skids, mercaptan injection skids, blending skids, additive injector and pump skids, etc.

We also provide services to commission all skids we supply in addition to calibrating meters with volumetric provers and master meter equipment.

TYPICAL PROJECTS

Storage Tanks

Design, Inspection, Supply, Erect and Paint

Sizes - 1,000 bbl. - 15' dia. x 18 high to 500,000 bbl, 240' x 67' high, fixed cone roof and floating roof tanks.

- For many clients across the Caribbean Area
- Over 66 years - more than 300 storage tanks erected.

Automated Bottom Loading Truck Loading Racks with Vapor Recovery

Turnkey, Engineering, Procurement and Construction to the following Clients:

- Caribbean Petroleum Corporation (CAPECO)
- The Shell Company (P.R.) Ltd.
- Esso Standard Oil Company (P.R.)
- Esso Standard Oil Company (V.I.) and various Caribbean Islands
- Peerless Oil & Chemicals Inc.
- Texaco Puerto Rico Inc.
- Texaco Caribbean Inc.
- Phillips Puerto Rico Core
- Commonwealth Oil Company (CORCO)
- Shell Chemical Yabucoa
- Buckeye Partners – Yabucoa, P.R.
- Puma Energy Caribe
- Puma Energy Puerto Rico
- Puma Dominicana, SA
- Coastal Petroleum Dominicana, SA
- PetroPantera Dominicana SA
- Best Petroleum, Guaynabo PR
- TERPROSA Haiti
- Total Petroleum Puerto Rico

Terminal Process Skids

Turnkey, Engineering, Procurement and Construction of Top & Bottom Loading Skids, Off Loading Skids, LPG Loading Skids, Mercaptan Skids, Butane Skids, Metering Skids, etc.

- Puma Energy Colombia
- Puma Energy Puerto Rico
- Puma Dominicana, SA
- Puma Paraguay
- Puma Energy Columbia SA
- Total Petroleum
- Coastal Petroleum Dominicana
- Massy Gas Jamaica
- TERPROSA Haiti
- Total Energies St Thomas
- West Indies Oil Co (WIOC), Antigua

Expansion/Replacement of Aircraft Fuel Hydrant Systems, Pipelines

Including underground tanks, pumps, filters, gauging system, etc.

- Luis Muñoz Marin International Airport - Purchase, Design and Construction.
- U.S. Coast Guard - Aguadilla, P.R.
- American Airlines - San Juan, P.R.
- Eastern Airlines - San Juan, P. R.
- PR National Guard – Muñiz’ Air Base Carolina P.R.
- Puerto Rico Ports Authority - San Juan, and Ponce, P.R.
- Caribbean Airport Facilities - San Juan, P. R.
- QB Construction, SE – San Juan, P.R.
- Air BP – San Juan, P.R.
- Total Petroleum – San Juan, P.R.
- Puma Aviation – San Juan, P.R.
- World Fuels LMM Airport, P.R.
- Sol Petroleum – LMM Airport P..R.
- APTIM Federal – San Juan, PR
- Weston Solutions – San Juan, PR
- CMS Corporation – PRANG, Carolina, PR

EPCC complete New Fuel Terminals

Including loading rack, tank farm, offices, warehouse, offshore unloading, etc.

- Esso Standard Oil Company - St. Thomas, U.S. Virgin Islands
- Petrox Dominicana – Puerto Plata, Dominican Republic (Design only)

New Pier Construction and repairs - Port of San Juan - All phases

- Joint owners - Esso Standard Oil, Texaco, Shell Oil Ltd.
- Placco Asphalt – San Juan, P.R.
- Tropigas LPG – San Juan, P.R.
- Caribbean Petroleum Company – Guaynabo, P.R.
- Puma Energy – San Juan, P.R.
- Joint Concession Management – San Juan, PR

Overhead Gantry Crane Systems

Refurbishing and Replacement

Projects up to 90 ton capacity - six contracts

- Puerto Rico Electric Power Authority - Various Power Plants in Puerto Rico

Environmental Projects

Including Superfund and consent decree remediation projects, cleanup of Refinery equalization ponds and off spec. product ponds, contaminated soil removal projects, redesign of sewage treatment plants, etc.

Mothballing Fueling System at US Naval Station, Roosevelt Roads, P.R.

Remediation of hydrocarbon contaminated sites – Various throughout Puerto Rico

Desalinization Plants

- Government of the VI/Westinghouse - St. Croix and St. Thomas, USVI
- Puerto Rico Electric Power Authority - Palo Seco, P. R.

Cooling Tower Repairs

- Upjohn Pharmaceuticals - Manatí, P. R.
- Puerto Rico Electric Power Authority – Aguirre Steam Plant, Palo Seco Steam Plant.

Modifications to Refinery Effluent Treating System - Turnkey.

Design, procurement and installation.

- Caribbean Gulf Refining - Cataño, P.R.
- Puma Energy Caribe

Purchase and Installation of Cooling Water Intake Filter System for 1500 MW. Generating Units

Puerto Rico Electric Power Authority - South Coast Plant

Tank Farm and Storage Tank Modifications and upgrades including ATG, overfill, piping, pumps, etc.

- The Shell Company (P.R.) Ltd.
- Shell Chemical Yabucoa, Inc.
- Caribbean Petroleum Corporation (Gulf)
- Texaco Puerto Rico Inc.
- Total Petroleum PR Inc
- Chevron
- Esso Standard Oil Co.
- Puerto Rico Electric Power Authority
- Commonwealth Oil Refining Corporation
- Puerto Rico Sun Oil
- Puerto Rico Air National Guard (PRANG)
- Phillips P.R. Core
- Tropigas de Puerto Rico
- Ferrero & Co.
- Abbott Healthcare Worldwide
- Peerless Chemical & Oils
- The Placco Co.
- Union Carbide Caribe
- Puma Energy Puerto Rico
- Puma Energy Caribe, PR
- Puma Dominicana, SA
- Best Petroleum, Guaynabo, PR
- Buckeye – Yabucoa PR
- TERPROSA Haiti
- Petropantera, Dominican Republic
- Limetree Bay Terminal – St Croix
- Various oil companies – Venezuela

Water and Waste Water Treating Plant Projects - Purchase and Installation

- R.J. Reynolds Tobacco Corporation - Yabucoa, P. R.
- US Navy Treatment Plant - Ceiba, P.R.
- Puerto Rico Electric Power Authority - Various sites
- Puerto Rico Aqueduct & Sewer Authority - Various sites
- Pepsi Bottling Co. - Vega Baja, P. R.
- Bard Cardiovascular - Las Piedras, P. R.
- Compañía De Aguas de Puerto Rico - various sites
- Barceloneta Waste water Treatment Corporation - Barceloneta, PR
- pH Neutralization Plant - Amgen, Juncos, PR
- New clarifier – Caribbean Petroleum Corporation

Dock Repair - Refurbish structure and cathodic system,
piping systems purchase and installation

- Puerto Rico Electric Power Authority - San Juan, P.R.
- Caribbean Petroleum Corporation - San Juan, P.R.
- Esso Standard Oil Company - San Juan, P.R.
- Commonwealth Oil Refining Company - Guayanilla, P.R.
- Peerless Oil and Chemical – Guayanilla, P.R.
- Puma Energy Puerto Rico – San Juan, P.R.

Erect Structural Building Steel and Siding

- U.S. Naval Exchange - Roosevelt Roads, P.R.
- P.R. Electric Power Authority - various plant sites
- Caribbean Petroleum Corporation (Gulf)
- U.S. Coast Guard - Ramey, P.R.
- Commonwealth Oil Refining Company - Ponce, P.R.
- Esso Standard Oil Company - St. Thomas, USVI
- Total Petroleum – Guaynabo P.R.

Power Plant Expansion - Foundation, structural, turbine/generator and mechanical.

- Creole Petroleum -Punta Gorda, Venezuela
- Puerto Rico Electric Power Authority - Various sites

Refinery Construction

Turnkey Installation of Gas Concentration Compressor

Engineering, purchase and installation.

- Caribbean Petroleum Corporation - 2 contracts (repeat orders)

Drip line Stripper Unit - Purchase and Construction

Civil, erect, electrical, instrumentation, insulation, paint, etc.

- P.R. Olefins - Guayanilla, P.R.

Four Units - Unifier, Platformer, Sulfur Recovery and HS Extraction Plant Turnkey

- Joint Venture (Litwin)
- Hess Oil Virgin Island - St Croix

Expansion of Crude Handling Facility

- Design, procurement, construction
(pile driving, two pump stations - 30" pipelines, manifold, electrical, instruments, etc.) fully automated.
-Commonwealth Oil Refining Company, P.R.

- Grass Root Alkyl Aromatic Plant - 30 million pound/yr.
site preparation, civil, tankage, piping, electrical, etc.
-Quimica Venoca - Valencia, Venezuela

Purchase and Installation of Fish Oils Pilot Plant

- Easton Chemical Caribbean, Inc. - Cataño, P.R.

Refurbish Raw Water Pump Station

- AFI (Compañía de Aguas) Carraízo Dam. Furnish and replace
6 - 15,500 GPM pumps, Asynchronous motors, new substation, all feeders and controls

PAST AND PRESENT CLIENTS

PUERTO RICO

Abbott Pharmaceuticals, Inc.
Admiral LPG
AGVIQ
Amgen Puerto Rico
Alonso y Carus, Inc
Autoridad Financiera Infraestructura (AFI)
Air BP (subsidiary of BP-Amoco)
American Airlines
Aptim Government Services
Bacardi Corporation
Bard Cardiopulmonary, Inc.
Best Petroleum
Bristol Myers Squibb Co. of Puerto Rico
Buckeye – Yabucoa PR
CACI, Inc
Caribbean Petroleum Corporation (Gulf)
Caribbean Airport Facilities
CH2MHill
Chevron Puerto Rico
Coastal Petroleum Dominicana
Commonwealth Oil Refining Company
Compañía de Aguas de Puerto Rico
Crown Bay Marina
CMS Corporation (CMS)
Domino Oil
Eastern Airlines
Esso Standard Oil Company
Fluor-Daniels Corporation
Janssen-Ortho Pharmaceutical
LG Scott and Associates
Ogden Aviation, Inc.
Pattern Energy
Peerless Oil & Chemicals
Pfizer Pharmaceuticals, Inc.
Phillips Petroleum Company
Placco Company of P.R. Inc.
P.R. Aqueduct & Sewer Authority (PRASA)
ProCaribe, Inc
PPG Industries, Inc.
Petrox Dominicana, SA
Puerto Rico Olefins Company

Puerto Rico Electric Power Authority (PREPA)
Puma Aviation
Puma Energy Caribe
Puma Energy Puerto Rico
P.R. Ports Authority
Puerto Rico Sun Oil Company
R.J. Reynolds Tobacco Company
Shell Chemical Yabucoa, Inc.
Skanska Caribe
Shell Chemical, P.R.
Sol Petroleum
Texaco Caribbean Inc.
Texaco Puerto Rico, Inc.
The Fibers Group
The Air National Guard (Base Muñiz)
The Shell Company (P. R.) Ltd
Total Petroleum Puerto Rico Inc.
Trafigura LLC
Travenol Laboratories, Inc.
Tropigas Puerto Rico
Union Carbide Caribe, Inc.
United States Navy
United States Coast Guard
Upjohn Pharmaceutical Co.
Weston Solutions Inc

VENEZUELA

Chevron Oil
Cía. Shell de Venezuela
Corporación Venezuela de Petróleo
Creole Petroleum
C.A. Venoco
C.A. Energía Eléctrica
Phillips Petroleum
Lago Ven
Mara Ven
Mene Grande Oil Company

VIRGIN ISLANDS

Crown Bay Marina
Domino Oil
Esso Virgin Islands
Hess Oil, V.I. (HOVENSA)
Martin Marietta Aluminum
Placco
Texaco Caribbean Inc.

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Total Petroleum VI
The Shell Company VI Ltd
Virgin Islands Water & Power Authority (VIWAPA)
Westinghouse Electric
USVI Fuels Inc. (Puma)

DOMINICAN REPUBLIC

Coastal Petroleum (LPG Terminal)
Refidomsa (Japan Gasoline Co.)
Shell Oil Dominicana
Puma Dominicana, SA
Petrox Dominicana, SA
Total Dominicana, SA
Petropantera Dominicana SA
Propagas Dominicana SA
Tropigas Dominicana SA

HAITI

TERPROSA
Admiral LPG

GUYANA

Placco
Shell Oil
Esso Standard Oil, S.A. Ltd.

THE BAHAMAS

Esso Standard Oil, S.A. Ltd.
Chevron Texaco Ltd
Rubis Oil
Sol Petroleum

BERMUDA

Exxon - Esso Standard Oil, S.A. Ltd
Sol Petroleum

GRAND CAYMAN

Exxon - Esso Standard Oil, S.A. Ltd
ChevronTexaco
Home Gas
Admiral LPG

ANTIGUA

West Indies Oil Company (WIOC)
Admiral LPG

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BARBADOS

Chevron Texaco

Esso Standard Oil, S.A. Ltd.

Rubis Caribbean

JAMAICA

PetroJam Ltd.

Cool Petroleum Ltd.

Massy Gas Jamaica

Jamaica Petroleum Terminals, Inc

COLOMBIA

Puma Colombia

PARAGUAY

Puma Paraguay

References upon request

PARTIAL LIST OF COMPANY OWNED EQUIPMENT

10	Cranes - to capacity of 35 tons
2	Boom Trucks 15 to 17 Ton
4	Compressors - primarily 185 CFM, 375 CFM
30	Welding machines - primarily 300-600 amp diesel driven. Also Electric welders
0	Oil field winch truck
28	Pickups - cars, flatbed trucks
2	Backhoe/loaders
2	Generators - diesel driven (10 KV. To 60 KV)
3	Hydraulic manlifts up to 60 feet
2	Recyclable Vacuum shot blaster for tank bottoms, shells and roofs
2	Automatic Tank girth Tank welders
2	Manual Hot Tap Machine for ½” to 4” taps
1	Pneumatic Hot Tap Machine for 4” to 12” Hot taps
1	Office Trailers – 40 foot
1	Telehandler Lift Lull 8K
1	Skid Steer Loader - Bobcat

PERSONNEL

LEE HUMBERT - BSCE, P.E.

Partner, Designer, President

Equipment control and maintenance, purchasing and sales, Safety Coordinator

33 years mechanical and electrical engineering

CAD experience, Equipment Control, Safety Coordinator

40 years with El Dorado

e-mail: lee@eldoradotechnical.com

SAMUEL RIVERA - BSEE, E.I.T.

Designer and Senior Project Manager

36 years electrical engineering experience

In charge of electrical division

Puerto Rico Licensed Electrician

Estimating, project management, System Integrator

38 years with El Dorado

e-mail: sammy@eldoradotechnical.com

LUIS E. HUERTAS BURGOS - BSME P.E.

Senior Project Manager

33 years of experience mechanical & civil engineering,
including 2 years pharmaceutical industry

Estimating, project management

32 years with El Dorado

e-mail: edgar@eldoradotechnical.com

NERDY A. CRUZ - BSME, P.E.

Senior Project Manager

29 Years in the Petrochemical Refining Industry

26 Years with El Dorado Technical Services

e-mail: nerdy@eldoradotechnical.com

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JORGE DAVILA – BSCE, P.E.

Project Engineer

14 Years of experience in general construction

13 Year with El Dorado Technical Services

e-mail: jorge@eldoradotechnical.com

LUIS FIGUEROA

Designer/draft person and purchasing - 36 years CAD experience

36 years with El Dorado

e-mail: luis@eldoradotechnical.com

OMAYRA VELEZ

Office Manager - Accountant

Bachelor Degree in Finance with concentration in accounting

32 years in the accounting profession

17 years with El Dorado

e-mail: omayra@eldoradotechnical.com

6 FIELD SUPERINTENDENTS

Average time with El Dorado: over 15 years (5-30 years)

REPRESENTATION/DISTRIBUTOR AGREEMENTS

- 1. BAKER-ALTECH
 - Arp, Texas
 - Manufacturers of Aluminum floating decks inside of petroleum stored cone roof tanks
 - Manufacturers of Aluminum geodesic domes for open top tanks in petroleum and wastewater service
 - Manufacturer of replacement seals for petroleum tanks

- 2. ROSEMOUNT TANK GAUGING-
 - Gothenburg, Sweden
 - Manufacturers of Automatic Tank Gauging (ATG) and liquid measurement equipment for API tanks and LPG/Butane bullets and spheres

- 3. DANIEL INDUSTRIES
 - Houston, Texas
 - Manufacturers of automated equipment for truck loading racks in refineries and gasoline bulk terminals including meters, valves, electronic equipment, etc.

- 4. ROSEMOUNT PROCESS SOLUTIONS -
 - Houston, Texas
 - Manufacturers of process Instruments for the Petroleum Industry, etc

- 5. HONEYWELL-INTERNATIONAL-
(Former Gate City)
 - Houston, TX
 - Manufacturers of additive & chemical injection equipment, Master Meter Provers, Inline product blenders, pump system skids, overflow protection equipment, loading arms, etc.

- 6. OMNTEC MFG. Inc.
 - Ronkonkoma, NY
 - Manufacturers of Tank Monitoring and Leak Detection

- 7. Taylor Valve Company
 - Lebanon, Oklahoma City, Oklahoma
 - Manufacturers of pressure and temperature relief valves

- 8. Emerson Terminal Management Solutions
 - Houston, Texas
 - Developers of Terminal Automation Solutions

- 9. Ultra-Check
 - Makers of Tank Gauge Hatch/Pole Accessories
 - Jacksonville, FL

- 10. Scully Signal Company
 - Wilmington, MA
 - Makers of overfill protection Equipment and other products

REPRESENTATION OF COMPLETED PROJECTS BY DISCIPLINE

CIVIL:

Infrastructure Financing Authority (AFI)

Rehabilitation of the Regional Aguadilla Water Treatment Plant - Aguadilla, PR

Upgrade capacity from 14 MGD to 20 MGD

Raw Water Pump Station - Hatillo, P.R.

Raw Water Pump Station - Aguas Buenas, P.R.

Puerto Rico Sun Oil

Install piling and concrete foundations, concrete ring wall and two 90' dia. storage tanks- Yabucoa, PR

Caribbean Refining Corporation

Install foundation for new skid desulfurization plant

Install tower foundation for 3 vessels

Install various foundations for blowers, pumps, compressors, etc.

Storage Tank foundations

Process Water Clarifier Project

Puerto Rico Electric Power Authority

Install various foundations for demineralizer pits, make up water systems, desalinization plants, etc.

Install piling and concrete foundations for structural crane way extension

Puerto Rico Aqueduct & Sewer Authority

Rehabilitation of Vega Baja Water Filtration Plant - Vega Baja, PR

Expansion of Luquillo Water Filtration Plant - Concrete water tanks, filters, flocculators, etc.

Construction of sludge treatment facilities at Cayey Regional Treatment Plant - Cayey, PR

US Navy

Rehabilitation of Capehart Sewage Treatment Plant

Rehabilitation of all three sewage treatment facilities - Ceiba, P. R.

Upgrade grit removal system

Barceloneta Waste Treatment Corporation (BWTC)

Rehabilitation of Primary and Secondary clarifiers at Regional Plant

Provide odor control system to existing clarifiers at Barceloneta Regional Waste Treatment Plant

Amgen (Fluor Daniels) Juncos, P. R.

Complete waste water treatment facility. Civil, stainless steel tanks, piping, electrical, instrumentation

Puma Energy Caribe.

Complete earth movement for tank patios and Dike walls
Ring foundations for API Storage Tanks
Tank Dike concrete liners

PIPING:

PREPA

- Dock unloading system - 20" and 14" piping
San Juan - Turnkey
Design - Installation

Esso Standard Oil P.R.

- Tanker oil product unloading facility at the Joint Facilities Dock
All structural, piping and electrical systems

Total Petroleum P.R.

- Tanker oil product unloading facility at the Joint Facilities Dock
All structural, piping and electrical systems

PREPA

- Emergency Repair of Penstock 34" dia. Originally built in the 30's
Material and equipment by helicopter to site - El Yunque, P. R.
-Rehabilitation to their 20" fuel oil transfer line including internal inspection smart pig.

Caribbean Refinery (Gulf):

- Installation of skid fabricated desulfurization plant
Performed factory inspection
\$7 Million plant
Final pipe and structural modification
Set and pipe, 3 towers, etc.

Caribbean Refinery

-Purchase, install, paint, cross country pipelines, refinery to tanker unloading facility. 4.5 miles of supports and 10 lines. Sizes 8"dia. to 24" dia.

US Navy Roosevelt Roads

-Mothballing 16 above and below ground fuel storage Tanks,
empty, clean and purge over 5 miles of underground fuel piping

Puma Energy Caribe

- Design and built pipelines from 6" up to 24".
- Design and built fire protection system for API Tanks – 4" and 6" lines.

FUELING SYSTEMS:

Puma Energy Caribe, LLC

Design and build Load Rack skids for Gasoline, Diesel, Jet, Fuel Oil and LPG
Consisted of five (5) Bottom loading skids, one (1) top load skid and two (2) LPG skids

Puma Energy Puerto Rico

Introduced to ethanol blending into the Puerto Rico market and consisted of converting tanks into Ethanol service, pumps, VFD's, piping, ethanol blend skids, start-up and commissioning services.

U.S. Coast Guard - Aguadilla, PR

Computerized loading facility for supplying aircraft with JP-4 fuel.
Piping instrumentation, environmental and tankage

Caribbean Petroleum Corporation

Bottom Loading Trucks
Additive systems, computerized operation and accounting
Vapor disposal
Turnkey - Design, purchase and installation

Peerless Oil & Chemicals, Inc.

Bottom Loading Trucks
Additive systems, computerized operation and accounting
Vapor Incineration
Turnkey - Design, purchase and installation

The Shell Company (P.R.) Inc.

Bottom Loading Trucks
Additive systems, computerized operation and accounting
Vapor recovery system
Turnkey - Design, purchase and installation

Shell Chemical Yabucoa, Inc.

Bottom Loading Racks for Trucks
Additive systems, computerized operation and accounting
Vapor recovery system, LPG loading systems
Turnkey - Design, purchase and Start-up

Phillips Core - P. R.

Bottom Loading Trucks
Additive systems, computerized operation and accounting
Vapor recovery system
Turnkey - Design, purchase and installation

COMPANY PROFILE

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Esso Standard Oil Company (P.R.)

Two Terminals - Cataño and St. Thomas
Complete design purchase and installation
Civil, structural, piping, electrical, etc.
Complete design purchase and installation

Puerto Rico Electric Power Authority

Rehabilitate Fuel off loading Terminal,
5 miles of 20" pipeline system, pumping station, etc.

Texaco P.R. Inc.

Two Terminals - Cataño and St. Thomas
Civil, structural, piping, electrical, etc.
Rehabilitate Fuel off loading Terminal,

San Juan International Airport:

Expansion and/or replacement of aircraft fueling systems
Fueling systems - design, purchase and installation -Various contracts - 14 years
American Airlines
Eastern Airlines
Caribbean Airport Facilities
P.R. Ports Authority
Air BP

PRANG

Replace filtering system including all Stainless Steel Piping

Total Petroleum

Complement design and build a butanization plant at their Facilities in Guaynabo, including but not limited to new foundations, shelters, Carbon and Stainless Steel Piping, Electrical Distribution.

ELECTRICAL:

Puma Energy Caribe

EPCC contract to build new Medium and Low Voltage Buildings
Included tilt-up concrete buildings, HVAC, Med Voltage VFD's
Cable tray system, Buss Bars, Low Voltage VFD's, PLC controls,
Lighting, Network architecture, SCADA system, etc.

Total Energies Puerto Rico

Complete refurbishment of MCC including new building, new MCC, transfer switches, etc

Pattern Energy – Santa Isabel, PR

Design, supply and Installation of new Power Reactor for Wind Turbine Project
Development of the SEL Relay System incorporating new reactors

AFI - Carraízo Dam

Replacement of primary transformers, substation
upgrade, replacement of feeders and control system for six 15,000 GPM pumps

Caribbean Petroleum Corporation

Complete plant audit and survey to insure compliance with
Section 500 of the NEC - up to 4160 V systems
Electrical substation upgrade, monitoring and modification - 38 KV / 4160 V

Puerto Rico Electric Power Authority

South Coast Plant - Units 5 & 6
U.P.S. room for instrumentation systems, battery charging, etc.
Partial design and full installation
Civil and Electrical
New feeders for the Bunker C oil pumps - 480 V

Puerto Rico Electric Power Authority

Water Induction System - Mechanical and electrical
-Aguirre Steam Plant
-South Coast Steam Plant

Puerto Rico Electric Power Authority

San Juan Steam Plant - monitoring and gauging system for the main and storage tanks (10 total)

Caribbean Petroleum Corporation

Off-site/On-site electrical system for new desulfurization plant
Turnkey: design, supply and installation

Puerto Rico Electric Power Authority

Install new generator (diesel unit), transformer and switchgear - Culebra, PR

Caribbean Airport Facilities

Luis Muñoz Marin Airport - Carolina, PR

Complete electrical system (38 KV to 110VAC) for new 115,000 SF cargo building

US Navy

Redesign and implement new power & control systems using

PLC logic systems for all three sewage treatment plants - Ceiba, P. R.

Fibers Group

Design, permit & install new 500 KVA substation

PRANG

Replace the MCC and upgrade their electrical distribution System.

COATINGS:

Puerto Rico Electric Power Authority

Aguirre Plant

- Sandblast and Paint two 230' dia x 48' high cone roof tanks

Palo Seco Plant

- Sandblast and paint interior and exterior of 150' dia. x 40' high tank

San Juan Steam Plant

- Sandblast, Vacuumblast and paint various tanks.

South Coast Steam Plant

- Sandblast, Vacuumblast and paint various tanks including three (3)
219' dia x 48' high Cone roof tank interior and exterior

Mayaguez Plant

- Internal coating for one 95' dia. x 40 high cone roof tank

Puerto Rico Sun Oil

Sandblast and coating for three 90' dia. tanks - Yabucoa, PR

Caribbean Petroleum Corporation

Vacuum Shot blast and coat (2) 100' x 40' CR tanks

Exterior/Interior coatings to numerous tanks for over 35 years

Ogden Aviation

Concrete line and install flexible elastomeric membrane
secondary containment to Airport tank farm 60,000 SF

Interior line 3 jet fuel tanks

Puma Energy Puerto Rico

Exterior coating to 10 tanks

Interior lining including sand blast to 10 tanks

Puma Energy Caribe

Exterior coating to 6 tanks

Interior lining including sand blast to 6 tanks

Miscellaneous Internal Tank Linings

The Shell Company - Over 10 Tanks

Esso Standard Oil - various tanks in both Cataño and St. Thomas

Texaco Puerto Rico Inc. - Various tanks

Peerless Oil and Chemicals - Various interior and exterior tanks

Janssen- Ortho - Interior/Exterior of fire water tank

PR National Guard – Muñiz Air Base, Carolina PR

CMS Corporation - USA

External Blast and Coat Two (2) – 4,000 Above Ground Fuel Storage Tanks under Fed Government Contract for Vehicle Fueling Station at PR Air National Guard Base in Carolina, Puerto Rico

STRUCTURAL/EQUIPMENT INSTALLATIONS:

Infrastructure Financing Authority (AFI)

Supply and install six (6) 15,500 G.P.M. Pumps (111.50 MGD) with 1200 Horse Power synchronous brush less motors at the Carraizo Dam

Puerto Rico Electric Power Authority

South coast Plant

Installation of 90/25 Ton x 120' long Gantry crane;
Supply and install 120' crane structure extension

Puerto Rico Electric Power Authority

Aguirre Plant

Install 75/15 Ton x 120' Gantry crane

Puerto Rico Electric Power Authority

Various Plants

Structural modifications to gantry cranes and support structures
Mechanical rebuilding of crane components
Sandblasting and painting of structures and cranes

Caribbean Petroleum Corporation

Replacement/Installation of motors, exchangers, blowers and stacks on a continuous basis

Caribbean Petroleum Corporation

Installation of double barge dock loading facilities
Including piping, structures, hose handling, electrical and fire protection systems

Storage Tanks

New tanks - 1000 bbl. to 500,000 bbl.
Repairs, new bottoms, new roofs, shell replacements, new seals, etc.
Internal floating roofs - steel and aluminum

Puerto Rico Electric Power Authority

Relocation of equipment for Balanced Draft Projects
Palo Seco Steam Plant
San Juan Steam Plant

American Engineering Services

All phases of installation for Desalinization Plant 1.5 million GPD
PREPA - Palo Seco Plant

Puerto Rico Sun Oil

Supply and erect three 90' dia. storage tanks

PRANG

Design and build Canopies for their fueling Stations

ENVIRONMENTAL:

Bristol Myers Squibb

Remediate area of ground contaminated with Kerosene - Humacao, PR

Caribbean Petroleum Corporation

Preliminary Clean-up of Equalization Pond

Remove 6000 cy contaminated soil from former waste pond

Chevron/AWPI/OHMEDA/Phillips Core (The Fibers Group)

Fibers Public Well Supply - Superfund Site

Phase I - Ground level remediation activities

Phase II - Subground water contamination clean-up. Included Value Engineering and construction of an 11 well system with a filter/tower system as well as effluent discharge

Phillips Core

Remedial Cleanup of off spec pond.

Jointly with I.T. Corporation

U.S. Navy - Roosevelt Roads, P.R.

Rehabilitate Sewage Treatment Plants (several projects)

Mothball fueling facilities entire site.

Phillips P.R. Core, Inc.

Assisted in installation of Ground Water Interceptor Project.

Jointly performed with Retec Corporation

Puerto Rico Electric Power Authority

Removal of lead paint from cranes, structures and tanks.

Bard Cardiopulmonary, Inc.

Construction of effluent equalization system. - Las Piedras, PR

Puerto Rico Electric Power Authority

Performing Consent Decree work throughout all generating plants in Puerto Rico

Amgen (Fluor Daniel)

Build a complete pH Neutralization plant (All phases)

Sol Petroleum

Remediate area of ground contaminated with Kerosene - Bayamon, PR

MECHANICAL:

Puerto Rico Electric Power Authority

Aguirre - Palo Seco - Southcoast- San Juan Plants

Installation of (1) 90/15 Ton, (2) 15 Ton, (1) 75/15 ton overhead gantry cranes & extend elevated railways

U.S. Coast Guard

Aguadilla

Install computerized loading facility for aircraft

Project included piping, electrical, instrumentation, environmental, and tankage

Puerto Rico Electric Power Authority

Naguabo Dam

Emergency repairs to 34" dia. pipeline

(Remote location required daily mobilization by helicopter.)

Puerto Rico Electric Power Authority:

Fueling Pier - San Juan Bay

Redesign and replace 20" and 12" fuel system and truck grating

Puerto Rico Electric Power Authority

Mayaguez

Turnkey piping and tankage project

Internal coating system

Refinery Turnarounds

All phases of piping, insulation, fin fan coolers, civil, etc.

- Caribbean Refining Corporation

Esso P.R.

- Tanker Oil product unloading facility

- All structural, piping and electrical systems, hose handling systems, and fire protection

Caribbean Refinery

- Installation of skid fabricated desulfurization plant

- Performed factory inspection

- Final pipe and structural modification

- Set and pipe 3 towers

Sun Co. Inc.

All phases of rehabilitation to Airport Fuel Terminal. - L.M.M International Airport

Puerto Rico Aqueducts & Sewer Authority

Installation of Pump No. 5 at Carraizo Dam

PROGRAMMABLE LOGIC COMPUTER (PLC) PROJECTS:

Puma Energy Caribe LLC

Design and implementation of the complete SCADA and terminal control system for the entire 6,000,000 barrel terminal using Allen Bradley and Rockwell equipment, PLC's and protocols.

West Indies Oil Company

Design and implementation of the complete SCADA and terminal control system for the LPG Upgrade terminal using Allen Bradley and Rockwell equipment, PLC's and protocols.

TERPROSA – Haiti

Design and implementation of the complete SCADA and terminal control system for the entire grass roots LPG terminal using Allen Bradley and Rockwell equipment, PLC's and protocols.

Sun Oil Company, Inc.

Design of pump control system at LMM International Airport Terminal
Included 1 – Processor, Allen Bradley, DH+ protocol

US Navy

Design of monitoring and plant control for three (3) Wastewater Treatment Plants – US Naval Station, Ceiba, Puerto Rico
Included 21 PLC's and five (5) HMI's PanelView, all Allen-Bradley using DH+ protocol

Puerto Rico Aqueduct and Sewer Authority (PRASA)

Design and installation of complete sewage plant monitoring and control system – Aguadilla, Puerto Rico
Included 7 Processors on DH+ protocol, HMI PanelViews and chart recorders, all Allen-Bradley

PetroPantera (Puma Dominicana, SA)

Design and installation of complete SCADA system for Bulk Fuels Terminal – San Pedro de Macoris, Dominican Republic. Design was to handle ship receipts, pump control, tank control, etc.
Included two (2) main processors, one HMI PanelView and one workstation all using ControlNet – all Allen-Bradley

Puerto Rico Aqueduct and Sewer Authority (PRASA)

Design and installation of control and monitoring system for water filtration plant – Ciales, Puerto Rico
Included 2 Processors on DH+ protocol, HMI PanelViews and chart recorders, all Allen-Bradley using Ethernet

Puerto Rico Aqueduct and Sewer Authority (PRASA)

Design and installation of control and monitoring system for water filtration plant – Luquillo, Puerto Rico
Included 2 Processors on DH+ protocol, HMI PanelViews and chart recorders, all Allen-Bradley using DH486

Miscellaneous Systems for Shell Chemical, Esso Standard Oil, Puma Energy, etc.

Design and installation of pump control systems for Fuel Truck Loading Racks – Various locations

All using Allen-Bradley PLC's of different models using different protocols such as DH485, DH+, Ethernet and ControlNet. Also use the GE Furnac series of PLC's

