

**PCE CONSTRUCTORS, INC.  
REPRESENTATIVE PROJECTS**

**REFINERY PROJECTS**

- Owner - Jupiter Sulphur, LLC  
Sulphur Recovery Unit No. III  
Billings, Montana
- Engineer/Construction Manager  
Tessengerlo Kerley Services  
Scope includes mechanical, piping, and electrical/instrumentation work for new Sulphur Units No. 1 and No. III.
- Owner - CHS, Inc.  
Laurel Refinery  
Hydrogen Generation Unit  
Laurel, Montana
- EPC project – 40MMSCFD Hydrogen Plant  
Teamed with Technip – Claremont, CA  
Work scope includes all construction - self perform 90% of on-site work (foundations/underground; structural steel; process equipment – reformer, PSA unit, compressors/pumps; tanks and vessels; piping; and, electrical/instrumentation), procurement of all commodities and selected equipment, and start-up/commissioning support.
- Owner - HollyFrontier  
Frontier El Dorado Refinery, LLC  
Hydrogen Generation Unit No. 3  
El Dorado, Kansas
- EPC project – 17MMSCFD Hydrogen Plant  
Teamed with Technip – Claremont, CA  
Work scope includes all construction - self perform 90% of on-site work, procurement of all commodities and selected equipment, including piping/equipment modules, and start-up/commissioning support.
- Owner - HollyFrontier  
MSAT2 Naphtha Fractionator  
Cheyenne, Wyoming
- EPC project, working with an alliance engineer to design, procure, and construct this 17,500 BPD unit. Scope includes: foundations/structural/process equipment installation /piping/thermal insulation/electrical/instrumentation/commissioning/start-up/turnover of the new unit.
  - Various projects involving civil/structural, equipment installation, piping, and electrical; preparation for refinery shut down.
- Owner - HollyFrontier  
Refinery Expansion  
Woods Cross, Utah
- Fast Track EPC Project – PCE is teamed with alliance engineering firm to design, fabricate, and install a major pipe rack connecting units throughout the refinery. Construction work scope included: piling; foundations; fabrication/installation of structural steel; and, minor electrical work.

# PCE CONSTRUCTORS, INC. REPRESENTATIVE PROJECTS

## REFINERY PROJECTS

Owner - Frontier Refining, Inc.

- El Dorado, Kansas  
Belco Scrubber/Gofiner/PSA Projects / UOP – Hydrogen Purification/ Isotherming Hydrocracker  
Work scope included: foundations/underground, structural steel, equipment installation including 10,000hp compressor, piping, electrical, instrumentation, and commissioning/start-up support. Work performed during cold weather conditions and within operating units.
- Cheyenne, Wyoming  
Amine/LPG/Merox/Shutdown Projects  
Work scope included: underground/foundations, structural/equipment installation, piping, electrical, instrumentation, commissioning/start-up support, and turn around activities. Equipment towers/columns, drums, pumps, compressors, and exchangers. Work performed in adverse weather conditions and inside operating units.

Owner - Coffeyville Resources Refining & Marketing, LLC  
Coffeyville, Kansas

Green Field CCR unit (17,000 BPD) adjacent to existing refinery and process unit. Work included foundations, structural steel, mechanical installation including large compressors, piping, electrical and instrumentation. Work also included total refinery recovery work resulting from flood damage.

Owner - Air Products and Chemicals, Inc.  
Valero Refinery  
Port Arthur, Texas

Installation of Heat Recovery Steam Generator (HRSG) and associated duct work from gas turbine direct to the burner duct. Work included all rigging, duct installation including 25ft x 25ft hydraulically driven guillotine valves, piping, critical code welding, in-line instrumentation, and specialties. Painting – subcontracted. A follow-up project included HRSG modifications and was performed on an outage basis.

Owner - Premcor Refining Group (Now Valero)  
Memphis, Tennessee  
Jacobs Engineering /JE Merit Constructors, Inc.

Green Field Diesel Hydro Treater Project (33,000 BPD). Work Scope included: structural, mechanical, equipment installation/alignment, piping – including fabrication of small bore, electrical, instrumentation/controls, thermal insulation, heat tracing, and painting.

Owner - NCRA Refinery  
McPherson, Kansas  
Tessengerlo Kerley Services – Client and Engineer

Green Field (Grass Roots) Project  
Sulfur Recovery Unit No. 2

Mechanical, piping, electrical, and instrumentation installation including: receiving, setting and aligning all equipment (vessels, compressors, pumps); scaffolding; furnishing fabricating and installing all piping systems; furnishing and installing heat (steam) trace, power and controls; electrical lighting and grounding; check all systems for completion; and provide support for commissioning and start-up activities.

**PCE CONSTRUCTORS, INC.  
REPRESENTATIVE PROJECTS**

**REFINERY PROJECTS**

Owner - Chevron Cleans Fuel Project  
Fluor Daniel – Prime Contractor  
Pascagoula, Mississippi

Supplied supervision and craft labor (pipefitters, welders, riggers, and electricians) to Fluor Daniel for outage and turn-a-rounds in Area 81 – Distillation/RDS Modules, Area 83 – Coker, and Area 84 - VDU. In addition to standard piping systems, performed installation and welding of the following materials: Inconel (14" XXS), Stainless (up to 14" S/160), 5% and 9% Chrome (up to 14" S/160).

TIC - \$45 million/ Contract Value \$5 million  
Completed - 2003

**PCE CONSTRUCTORS, INC.  
REPRESENTATIVE PROJECTS**

**GAS TREATING / GENERATION**

Owner - Air Products Helium, Inc.  
Doe Canyon Helium Extract Facility  
230MM SCFY Capacity  
Cahone, Colorado

Underground, foundations, structural steel, equipment installation including 7,000 HP compressor, process/utility piping, electrical/instrumentation; control building; and, commissioning/start-up support.

Owner - Air Products and Chemicals, Inc.  
Midland-Odessa Liquid Nitrogen Plant  
250 TPD Capacity  
Odessa, Texas

Phase I – Site work, underground (piping/duct banks), foundations – including an elevated foundation for a 560,000 gallon liquid nitrogen storage tank, structural steel/process equipment/piping.

Owner - PennTex Midstream Partners  
Liquid Handling Facility  
Ruston, Louisiana

EPC Project – 5,000 BPD condensate stabilization facility – Ruston, Louisiana. Teamed with alliance engineer. Work scope includes constructability reviews with engineer, foundations/underground, structural steel, process equipment installation - pumps/filters/compressors/heaters/vessels/coolers/load out systems/2,500BBL slug catcher, piping, electrical, instrumentation, and commissioning/ start-up support.

Owner - Linde Process Plants  
6100 South Yale Avenue, Suite 1200  
Tulsa, Oklahoma 74136

- 200MMSCFD Gas Treating Plant  
Plant Owner – Mark West  
Completion Project  
Mayfield Buffalo Creek  
Sayre, Oklahoma
- 200 MMSCFD Cryogenic NGL Recovery Unit  
Plant Owner - Oneok  
Completion Project  
Canadian Valley Gas Plant  
Calumet, Oklahoma

Miscellaneous foundations, process equipment installation, structural steel, piping/fabrication-installation, electrical/instrumentation, thermal insulation, and commissioning/start-up support.

**PCE CONSTRUCTORS, INC.  
REPRESENTATIVE PROJECTS**

**GAS TREATING / GENERATION**

Owner - Linde Process Plants, Inc.  
350MMSCFD Gas Treating/Compressor Facility  
Parachute, Colorado

Scope included all site work, foundations, and underground piping/electrical installation, receiving/unloading, and storage of process equipment.

Owner - Air Products and Chemicals, Inc.  
Air Reduction Plants No. 120 & 370  
Chandler, Arizona

Scope included mechanical and piping installation of two air liquefaction plants including unloading and rigging of APCI furnished equipment: cold boxes; TSA skids, cooling tower modules, miscellaneous electrical gear; fabrication and installation of piping, structural supports, and thermal insulation.

Owner - Air Products and Chemicals, Inc. (Continued)

- Sandstone, Virginia & Austin, Texas  
Air liquefaction plant relocation from Virginia to Texas. Work included deconstruction of an existing plant in Virginia and, along with new/refurbished equipment, reinstalled in Texas. Work scope included rigging/loading/unloading, equipment/structural installation, piping, electrical, instrumentation and pre-commissioning/start-up assistance.
- Helium Plant Installation  
Big Piney, Wyoming

Scope included all work above foundations, structural/equipment installation, piping, electrical, and instrumentation. Equipment included: modular units, pumps, exchangers, storage facilities, and specialties. Work performed in extremely adverse weather conditions.

Owner - DCP Midstream, LP  
Beaumont, Texas

Compressor station upgrade/expansion. Work scope included: underground installations; foundations; structural/equipment installation; piping (including station manifold replacement); electrical; instrumentation; and, shut-down tie-in work. Equipment included: heaters, modular units, pumps, and exchangers. Except for shut downs, work performed during station operations.

Owner - CO<sub>2</sub> Purification Plant (178 TPD)  
Linde Process Plants, Inc.  
Woodward, Oklahoma

Work Scope: Underground/foundations; structural/mechanical/piping/electrical/ instrumentation and commissioning/start-up support. Process equipment included: CO<sub>2</sub> column, modules, dehydrators, gas scrubbers, heat exchangers, pumps, heaters, compressors, and air cooler.

**PCE CONSTRUCTORS, INC.  
REPRESENTATIVE PROJECTS**

**CHEMICAL / PROCESS PROJECTS**

Owner - Viridia B2X, LLC / Stora Enso  
Biochemical Pilot Plant / Bagasse Processing  
Raceland, Louisiana

Scope included all mechanical, limited structural/foundation work, piping, and commissioning/start-up support. Boiler licensing under the State of Louisiana rules was also included.

Owner - Ergon Biofuels, LLC  
Biofuels Plant  
Vicksburg, Mississippi

Foundations/underground construction; structural steel installation; process equipment installation; piping; electrical/instrumentation work; and, start-up/commissioning support.

Owner - MYRIANT Technologies, LLC  
Succinic Acid Bio-Refinery  
Lake Providence, Louisiana

Scope included all MEP work: structural steel fabrication/installation; process equipment installation; pipe fabrication/installation; electrical/instrumentation work; and commissioning/start-up assistance.

Owner - CHEMTURA Corporation / Great Lake Solutions  
Plant Expansion – Bromine Based Fire Retardant Products  
El Dorado, Arkansas

Scope included: demolition of selected components and structures within operating units; underground piping/electrical duct banks; foundations; structural steel/process equipment installations; pipe fabrication/installation; electrical/instrumentation; and, commission/start-up assistance.

Owner - Coffeyville Resource Nitrogen Fertilizers, LLC  
UAN Fertilizer Plant Expansion  
Beatrice, Nebraska and Coffeyville, Kansas

Scope included: deconstruction of a Nitric Acid Plant in Beatrice, NE; clean-up of the Beatrice site; relocation of equipment/facilities to refurbishment shops; installing the refurbished plant along with a UREA plant expansion. Scope included refurbishment of selected structures/buildings/equipment; underground/foundation/concrete structures; structural/process equipment installation; and, pipe fabrication/installation.

Owner - Archer Daniels Midland Company  
Columbus, Nebraska

Green Field ethanol plant (275,000,000 GPY) with additional grain processing and storage facilities. Work scope included foundations – 50,000 CY, structural steel installation, equipment installation, piping installation, and electrical work for selected plant units. ADM served as the engineer and general contractor.

**PCE CONSTRUCTORS, INC.  
REPRESENTATIVE PROJECTS**

**CHEMICAL / PROCESS PROJECTS**

Owner - KOCH Nitrogen Company  
Enid, Oklahoma

Expansion of existing Fertilizer Plant- Work scope included structural steel, miscellaneous work, and instrumentation.

Owner - Tetra Technologies, Inc.  
El Dorado, Arkansas

Green Field Calcium Chloride Plant – Work scope included underground installation, foundations, and structural steel, piping, equipment installation, electrical, instrumentation and start-up/commissioning support.

Owner - Dyno Nobel, Inc.  
Yazoo City, Mississippi

Relocate Existing Ammonia Plant (3300 Tons of equipment & materials) – Work Scope included: marking for reinstallation in Australia, deconstruct, preparation/packaging for ocean transport, and shipping to the Port of Mobile, Alabama a complete 500TPD Ammonia Plant.

Owner - BELCO Technologies Corporation  
TransAmerica Refining Company (Now Valero)  
Norco, Louisiana

EDV 6000 Air Pollution Control System – Furnish, fabricate, and install piping systems (carbon and stainless steel up to 30 inch), furnish and install electrical and instrument systems, install Owner furnished equipment including pumps, blowers, clarifiers, tankage, plate work (duct), filtering modules and two hundred foot stainless steel stack (13 ft - Ø).

Owner - Columbian Chemicals Company (Now Birla Carbon)  
Centerville, Louisiana

Carbon Black Process Unit - Work included procurement, fabrication, painting and erection of pipe, pipe support systems, and process equipment installation for new unit. Pipe size range ½"Ø - 72"Ø - carbon and stainless steel.

**PCE CONSTRUCTORS, INC.  
REPRESENTATIVE PROJECTS**

**POWER PROJECTS**

Owner - Continental Carbon Company  
Steam Power Project  
Sunray, Texas

Installation of a site erected waste gas fired 73T/H steam boiler (Hangzhou Boiler Group), foundations/concrete, drilled piers (730 EA - 24 IN/30 IN DIA), structural steel fabrication/erection, process equipment installation (fans/pumps/tanks/MCC building), piping fabrication/installation, insulation/refractory, and, electrical/instrumentation work. Work included approximately 2 miles of 16 IN/6 IN steam/condensate pipe lines to an adjacent refinery.

Owner - Suez Energy Generation NA, Inc.  
Choctaw Gas Generation, LLC  
Ackerman, Mississippi

Completion of Choctaw Power Project (765 MW) – performed equipment installation, piping, critical code welding, electrical, and mechanical work items to complete the plant installation (Westinghouse 501G). Testing and boiler certification were also in the work scope. Provided instrument technicians to conform/confirm all control circuitry and instrument calibration. Assisted in commissioning and start-up activities.

Owner - Desert Power, LP  
Rowley, Utah

Power Plant Expansion (100 MW) – Existing simple cycle utilizing two (2) CGT/G units expanded to include HRSG and steam turbine-generator. Work scope included: site work, foundations, underground installation, structural, mechanical, equipment erection/installation/ alignment, site buildings, all piping systems, thermal insulation, electrical, instrumentation, and painting.

Owner - Suez Energy Generation NA, Inc.  
Hot Springs Power Company, LP  
Malvern, Arkansas

Completion of Hot Springs Power Project (760 MW) – performed various piping, critical welding, and mechanical work items to complete the plant installation (Westinghouse 501G). Provided up to fifteen (15) instrument technicians to conform/confirm all control circuitry and instrument calibration. Assisted in commissioning and start-up activities.

Owner - Valero Energy Corporation (TPI Petroleum, Inc.)  
Ardmore, OK Refinery  
Burns & McDonnell – EPC Alliance

Performed equipment relocation from Delaware, civil and foundations, mechanical and piping work scopes for 18MW power generation unit.

Owner - LES – Lincoln Electric System  
Burns & McDonnell – Engineer  
Lincoln, NE

Performed new construction of the following: (1) A complete GE Glegg water treatment system; (2) A complete Trane refrigeration system; (3) Above and underground piping to cooling towers; and (4) Provided equipment and installed a complete fuel oil system for 3 GE LM6000 turbines. This work included calibration, furnish, install and alignment of equipment and commissioning.



**PCE CONSTRUCTORS, INC.  
REPRESENTATIVE PROJECTS**

**POWER PROJECTS**

- Owner - ANP – Owner  
Alstom Power, Inc. – Engineer and Client  
San Marcos (Hays County) Texas
- Mechanical, Piping, Electrical, and Instrumentation installation including: furnishing and installing heat trace power and controls; electrical lighting and grounding. Plant wide systems completion involving all aspects of Mechanical, piping, E&I work, and multiple CGT rebuilds, Start-Up, and Commissioning of 4 ABB single shaft (250MW/EA) gas/steam turbine/generators.
- Owner - Southern Company/Gulf Power – Owner/Engineer  
Southport, Florida
- Total mechanical erection for this (520 MW) combined cycle power plant. Scope included two (2) General Electric 7FA CGT, one (1) General Electric Steam Turbine, and two (2) Vogt-NEM HRSG Units with all interconnecting and BOP aboveground piping, pipe racks, insulation, and painting.
- Owner - Associated Electric Cooperative, Inc. – Installation Owner  
SIEMENS Power Corporation – Client  
St. Francis Project – Unit II  
Campbell (Dunklin County) Missouri
- Scope included furnishing and installing all foundations (23,500cy) and underground piping systems – firewater, storm drains, water and process lines, fuel gas, sanitary sewers, and circulating water. All site electrical grounding and duct banks also included. Site developed for a Siemens V84.3A Combustion TG set – single shaft: one HP/LP Steam turbine; and associated equipment. 250MW Power Generating Station – Equipment installation and erection including: A SIEMENS V84.3A Combustion TG Set-Single Shaft; one HP/LP steam turbine; clutch and condenser; auxiliary equipment to support turbine.
- Owner - ANP – Owner  
ABB Alstom Power – Engineer and Client  
San Marcos (Hays County) Texas
- HRSG Erection – Installation of four (4) ABB – CE Model ICS KA-24 Heat Recovery Steam Generators, all systems piping, access steel, stack, and ammonia injection system equipment and piping.
- Owner - LG&E - Owner  
Siemens Westinghouse – Engineer  
Louisville, Kentucky
- Mechanical erection for this Siemens Westinghouse V84.3A CGT, with hydrogen cooled generator, simple cycle plant.
- Owner - ANP-Owner  
Alstom Power – Engineer and Client  
Midlothian (Ellis County) Texas
- HRSG Erection – Installation of two (2) ABB – CE Model ICS KA-24 Heat Recovery Steam Generators, all systems piping, access steel, stack, and ammonia injection system equipment and piping.

**PCE CONSTRUCTORS, INC.  
REPRESENTATIVE PROJECTS**

**POWER PROJECTS**

Owner - Associated Electric Cooperative, Inc. – Owner  
SIEMENS Power Corporation – Engineer and Client  
Chouteau Project  
Pryor (Mayes County) Oklahoma

Green Field (Grass Roots) Project – 520 MW Power Generating Station -Equipment installation and erection including: two (2) Siemens V84.3A Combustion TG; one (1) HP/LP Steam Turbine and Generator, Condenser; auxiliary equipment; all steam, condensate, and service piping systems and supports/pipe racks, and all electrical and instrumentation.

Underground Installation – Scope included furnishing and installing underground piping systems – firewater, storm drains, water and process lines, fuel gas, sanitary sewers, and circulating water. All site electrical grounding and duct banks were also included. Site developed for a combined cycle power plant utilizing SIEMENS combustion gas (2)/steam (1) turbines.

Owner - Cleco Evangeline LLC  
Pineville, Louisiana  
Coughlin Power Station

Mechanical, electrical, and instrumentation installation for repowering Units 6 and 7 at the Coughlin Station in St. Landry Parish, Louisiana. Project included all piping to three (3) new HRSG's. Scope of Work included furnishing and installation of all piping, hangers, valves, ammonia system, electrical, and instrumentation.

Owner - Associated Electric Cooperative, Inc.  
SIEMENS Power Corporation – Client/Engineer  
St. Francis Project – Unit I  
Campbell (Dunklin County) Missouri

Green Field (Grass Roots) Project – 250MW Power Generating Station –Equipment installation and erection including: A SIEMENS V84.3A Combustion TG Set-Single Shaft; one HP/LP steam turbine; clutch and condenser; auxiliary equipment to support turbine; all steam, condensate, and service piping systems and supports/pipe racks; and, all electrical and instrumentation.

Engineering, procurement and fabrication services for critical piping systems including main steam, reheat, feedwater, and condensate. Detail piping design included wall thickness, pressure drop, warm-up/cool down calculations, steam hammer, flexibility and thermal stress analysis and hanger/support requirements.

Owner - Alabama Electric Cooperative – Installation Owner  
SIEMENS Power Corporation  
McIntosh, Alabama

Two (2) V84.2A SIEMENS 120 MW combustion turbine-generator units and associated plant equipment. Project scope included all underground systems, mechanical, rigging, piping, electrical and instrumentation work.