



Al Biernesser

Senior Project Manager & Present -2018

Professional Summary

Education:

Citrus Community College, Azusa, CA
Associate of Science Degree in
Mechanical Engineering

Pasadena City College, Pasadena, CA
Certificates of Completion in:
• Piping Design and Basic Piping Layout
• Boilers, Heaters, Pumps and
Rotating Equipment

Additional Training:

- CAL-OSHA Trenching, Shoring and Excavation Competent Person Training Certificate
- 40 Hour Hazardous Waste Workers' and 24 Hour First Responders Operations Level Health and Safety Training (HAZWOPER)
- 8 Hour Supervisors' Health and Safety Training
- Railroad Emergency First Responder Training, Hazardous Materials Operations (NFPA National Standard 472)
- Refinery Safety Orientation (RSO), Trained and Certified
- Smith Advanced on Road Defensive Driving Course
- Design Techniques for Stream Bed Protection and Pipeline Washout Repair
- e-RAILSAFE System certified and badged

Experience:

Mr. Biernesser has over 40 years of consulting engineering experience serving process facilities in the petroleum, petrochemical refining, chemical, and pipeline industries.

Pipeline Project Experience:

Tidelands Oil Production Co./Occidental Long Beach, Inc. – Project Manager, Design Lead for the following:

- Pier E Well Site Relocation Project
- West Side Development
- Standard Plant Water Injection Pump
- Gerald Desmond Bridge Flowline Replacement
- Pier A, Pier D, W-Strip, West of Vopak, and other Tidelands set aside area drilling program design
- Sansania Oil Field Production Improvements
- Pier A West, Stormwater
- Pier D ST Relocation
- ISF Drum Rehabilitation
- AWT/DVM Design at multiple locations
- X-Y Plant, Pier F and Z Water Plant Gas Engine Design
- Standard Plant Water Injection Pump Design
- Pier A West Well Testing Facilities
- Line 3" Wet Gas Channel Crossing to X-Y Plant with MDPE Lining

CP Kelco Company – Project Manager, Lead Design for the following:

- Cogeneration Plant Natural Gas Line Replacement

Crimson Pipeline Company – Project Manager, Lead Design for the following:

- Montebello Crude System
- Design of Valve Vaults for the recently acquired pipeline systems
- Huntington Beach Gathering Lines



- Modifications

BP Pipelines – Project Manager, Design Lead
for the following:

- Line 70 Biocide Injection System
- Los Angeles Basin Storm Water Projects: East Hynes, Hathaway Terminal Terminal-2, Terminal-3, and Carson Crude Terminal
- West Hynes Line Fill Repairs and Modifications
- Line 211 Natural Gas Line Piggability Modifications
- Line 211 Subsidence Mitigation Repair
- Born Box Redesign
- Line 32 Idling and Reactivation with Smart Piggability Capabilities.
- East Hynes Line E-10, E-11 and Line 80 Relief Valve Modifications
- Multiple Pipeline Idling and Abandonment Projects
- Lines 71R and 79R Relocation including Meter Skid and Pig Launchers/Receivers
- Idle and Abandonment of Pipelines
- Line 80 I.L.I. Modifications.
- Line 69 I.L.I. Modifications
- Junipero Vault Modification



Lundy Thagard Pipeline – Lead Design for the following:

- Line 35 Modifications to recently acquired pipeline to connect to LT Refinery and Crimson Pipeline

BreitBurn Energy Partners – Project Manager, Design Lead for the following:

- 405 Freeway and Wilshire Boulevard widening, Pipeline Relocation
- Metro Light Rail Project, Pipeline Relocation

Shell Oil Company – Lead Design for the following:

- San Jose Terminal, Pipeline Pig Launcher and Receiver Design

Air Products and Chemicals, Inc. – Project Manager, Design Lead for the following:

- Conoco Phillips H₂ Meter Upgrade
- Stormwater Modifications and Connection to County Sewer System
- H₂ from Air Products to BP LA Refinery
- H₂ Meter skid at ConocoPhillips

Kinder Morgan Energy Partners – Project Manager, Design Lead for the following:

- McCarran Piggability Modifications
- 16-inch Pipeline from Chemoil to Kinder Morgan Carson Facility
- Repair of multiple pipeline washouts
- GX 120 Pipeline piggability modifications
- GX 190 Pipeline piggability modifications
- Black Products modifications from the Port of Long Beach to Carson Terminal
- Demolition of the Los Angeles Marine Terminal
- Blasting calculations for proximity blasting near CalNev pipelines
- Pipeline modifications and installation of Remote Gravitometer on LS-116 in Tucson
- Install connection with meter skid at the Kinder

Morgan Carson Terminal to the Air Force pipeline in Alameda Street

- Increase the line size to 12-inch, 2,700 feet of the McCarron Lateral from the 15 Freeway to the McCarron Las Vegas, NV Airport
- Install motor operated Valve in the 24-inch LS-105 pipeline at BP East Hynes Terminal



California State University Long Beach – Project Manager for three projects to evaluate, repair and replace existing leaking natural gas system throughout campus using MDPE.

VOPAK – Project Manager for installation of 3,100-foot MDPE wastewater line at VOPAK's Long Beach Terminal.

Tidelands Oil Production Co. – Mountain View Branch. Project Manager responsible for locating and determining the feasibility of a 14-mile pipeline route of a natural gas pipeline to a power plant.

Tidelands Oil Production Co. – Ocean Boulevard Project. Lead Designer for three lines under the Port of Long Beach future container terminal at Pier S.

Tidelands Oil Production Co. – "W" Strip Fill Project. Lead Designer of the elevation of 19 wells and piping adjacent to Ocean Boulevard for the Port of Long Beach.

Questar Southern Trails Pipeline – JFK Drive Relocation. Project Manager for a one-mile relocation of the pipeline for development.

Questar Southern Trails Pipeline – Cameron Bridge Anchor Replacement. Project Manager responsible for checking the stresses on the pipeline to identify the need of the piping anchor of the historical Cameron Bridge over the Little Colorado River.

Los Angeles ISD – Walt Disney Concert Hall. Lead Designer for the routing of 1.5-mile chilled water supply and return lines to the Walt Disney Concert Hall for the air conditioning system.

Kinder Morgan Energy Partners – Coyote Creek Project. Project Manager responsible for the design of the relocation of 16" pipeline from

underground to hang from the underside of the bridge.

Praxair – 223rd Street Relocation Project. Project Manager responsible for the design of the relocation of 85 feet of nitrogen pipeline to make way for the Alameda Corridor.



Air Products – Carson Torrance H₂ Pipeline. Lead Designer responsible for three miles of the pipeline in city streets and the EFV (Excess Flow Valve) Stations, as well as a review of the alignment sheets for traffic plans and constructability.

Kinder Morgan Energy Partners – 51st Street Relocation Project. Project Manager for the relocation design of two pipelines to make way for a new storm water system.

Refinery Process Project Experience:

TOSCO Refining Company – Coker Rebuild, Carson, CA. Drew fast track isometrics to rebuild the Coker unit after the 2000 fire.

TOSCO Refining Company – Deep Cut Project, Carson, CA. Performed design, field verification and checking of a revision of the gas oil system in the crude unit at the Carson Refinery.

TOSCO Refining Company – Unit 80 Fuel Gas Filters, Wilmington, CA. Designed and checked fuel gas filters for design and constructability.

TOSCO Refining Company – 2000 Underground Piping Replacement, Carson, CA. Provided field routing, developing, design and checking of the drawing package for the replacement of the 8-inch Unit DU-5 Start-Up Line at the Carson Refinery.

TOSCO Refining Company – LA Basin, Tank Realignment Project, Carson, CA. Duties included material (flanges and valves) take off from P&ID's.

ARCO Refining Company – Carson, CA. Project Manager duties included managing engineering design and construction for projects relating to refinery and environmental piping

installation.

ARCO Refining Company – Three-Unit Turnaround of the FCC, No. Steam Plant, and Alky, Carson, CA. Construction Manager responsibilities included managing numerous contractors assigned to various projects, planning and coordinating with ARCO Operations, and performing duties such as safety audits, time keeping audits, scheduling, measuring productivity accuracy, constructability, permitting, and efficiency studies.

ARCO Refining Company – Carson, CA. Field Engineer duties included design, drawing and implementing training isometrics for operation's new and existing storage and handling systems.

ARCO Refining Company – Carson, CA. Project Supervisor of various projects and numerous personnel. Field Engineering duties included construction coordination with contractor and operations to ensure scheduling criteria and time lines were met. Composed tie-in procedures and schedules for operations to insure maximum safety on the project, and prepared lockout-tagout procedures and list for the ARCO Clean Fuels Project.

ARCO Refining Company – Carson, CA. Field Engineer duties included project and turnaround construction coordination for the Project Engineering Group.

Douglas Oil Company (now Paramount Petroleum) – Paramount, CA. Chief Designer responsibilities included management of refinery design group as well as design, layout, checking, and field engineering. Projects included vacuum vent gas compressor, slop injection and transfer system, API separator, pre-flashtower revisions, suction heaters, desalters and exchangers, plant storm water system, sub surface foam injection



for storage tanks, loading racks, bulk peroxide storage, surveying, civil, structural and instrumentation design.

Witco Chemical Company – Carson, CA.
Layout, design and checking of pumps, loading racks, unloading sumps, dryers and a tank farm.

ARCO Refining Company – Carson, CA.
Project Supervisor/Senior Designer duties included field sketching, design, and implementing training isometrics of existing refinery and storage and handling systems.

Piping/Metering Project Experience:

Calpine-Sutter Power Plant – Material take off and checking of P&ID and drawings.

Dart Container – Pentane System. Developed drawings for existing facility to include their Pentane System for permitting with the City of Corona Fire Department.

Unocal, ARCO, Witco, SFPPL – Various locations. Responsibilities included design and checking of piping systems for various petroleum clients, storage tanks, wastewater, pumps, compressors, cooling towers, blowers, coker and crude unit turn around, exchangers, platforms, tank farm road improvements, and rail car loading and unloading racks.

Storage Facility Project Experience:

SOCO Lynch Corporation – Whittier, CA.
Construction Superintendent duties included the installation of 17 underground storage tanks and related piping.

Four Corners Pipeline – East Hynes Clean Fuels Project, Long Beach, CA. Assisted in management of piping design, construction and inspection of pipeline over pressure protection system. Also worked as fire safety marshal performing safety orientations, inspections, permitting and accident investigations.



BP Pipelines North America – Construction Manager for pipeline idle and abandonment projects. Numerous pipelines in and around the Los Angeles basin.

Four Corners Pipeline – Fire System. Managed engineering, design and construction of upgrade to the East and West Hynes Fire Water System.

ARCO Pipeline – Construction Manager and Inspection Coordinator for the Marine Terminal 2 vapor recovery system.

ARCO Refinery – Field Engineer / Construction Manager of Tank Farm Road Elevation.