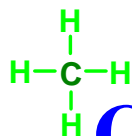
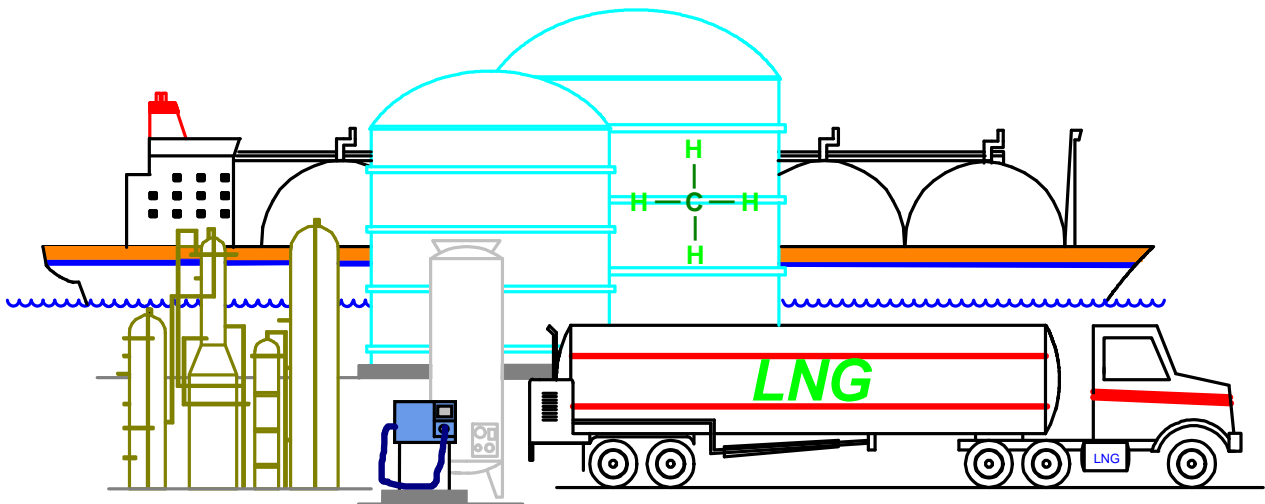


Statement of Qualifications

Focusing on Owner's Engineering, Lender's Engineering and FEED Engineering



CH·IV International

The LNG Specialists

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Summer 2009



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OVERVIEW OF CH·IV CAPABILITIES:

CH·IV International (CH·IV) and its predecessor, CH·IV Corporation, have provided engineering services relating to the design and operation of LNG facilities since 1991. CH·IV's staff of employees has a combined total of over 150 years of engineering experience covering the whole LNG value chain, from gas treatment and liquefaction for peakshaving or export, through marine and land transportation to the final import, regasification and delivery of the gas to the pipeline, power plant or any other consumer. CH·IV's parent company, MPR Associates, Inc., of Alexandria, Virginia, complements the CH·IV LNG experts with a technical staff of over 100 experienced engineers and scientists and a long history in the power industry. CH·IV is further supported by MPR's extensive 75,000 volume technical library with three full time professional librarians. In addition to our primary office in Hanover, MD, CH·IV maintains a permanent office in Houston, TX shared with MPR. Additionally, MPR has affiliate engineering offices in Houston, New York and Los Angeles.

CH·IV and its parent company have teaming agreements and successful working relationships with national and local environmental engineering firms including URS Corporation, EarthTech, TRC Environmental, CH2M Hill, Tetra Tech, Golder and Schnabel for providing specific environmental permitting services, site contamination evaluations, detailed geotechnical investigation of brown field sites and design and evaluation of marine structures. Similarly, CH·IV has a close working relation with Moffat & Nichols, Haley & Aldrich, Lanier & Associates and DMJM Harris/AECOM to assist in marine logistics studies and facility design and Quest Consultants, IRC, Exponent and ioMosaic for hazard and risk analysis.

SOME OF CH·IV'S STRENGTHS RELATING TO LNG FACILITIES INCLUDE:

1. In-depth understanding and experience in LNG systems, safety and marine logistics:

- ◆ CH·IV is recognized as a top quality provider of independent design review and troubleshooting services for LNG facilities, systems and equipment.
- ◆ This core competence in component engineering makes CH·IV particularly effective in:
 - Technical due diligence,
 - Design and safety reviews, fabrication audits and oversight of acceptance testing and
 - Specification and integration of new and challenging systems.

2. Our rigorous and systematic development of support for regulatory applications:

- ◆ CH·IV has provided the Front End Engineering Design (FEED) for permitting on Downeast LNG (Maine), AES Sparrows Point (Maryland), Terminal de Sonora (Mexico), Oregon LNG and La Unión Energy Center (El Salvador).
- ◆ As Owner's Engineer, CH·IV worked on support of the permitting process on seven recent North American permitted LNG import projects Dominion LNG (Cove Point, MD), Trunkline LNG (Lake Charles, Louisiana); Cameron LNG (Louisiana) and Energía Costa Azul (Mexico); AES (Sparrows Point, MD); Downeast LNG (Robbinston, ME); LNG Development Co. (Oregon).



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- ◆ CH-IV led the technical side in submission of a Deep Water Port Application (DWPA) for Crystal Clearwater Port (California), Safe Harbor Port (New York) and Port Bienville (Alabama), Esperanza Energy (California).
- ◆ CH-IV has direct involvement with filing applications to FERC, the U.S.C.G. under the Deep Water Ports Act and the Mexican Comisión Reguladora de Energía (CRE).

3. Selective application of world-class, specialized technical expertise in areas such as:

- ◆ LNG terminal operations;
- ◆ LNG tanker operations;
- ◆ LNG storage tank design;
- ◆ LNG peakshaving facility design;
- ◆ LNG loading/unloading system design
- ◆ Cryogenic pump and compressor design and operation;
- ◆ Liquefaction technologies;
- ◆ Vaporization technologies
- ◆ LNG facility siting and permitting;
- ◆ Waste heat/waste cold utilization;
- ◆ Vapor (BOG) handling evaluations;
- ◆ Together with our parent company, MPR, we also can provide expertise in:
 - materials and corrosion engineering,
 - thermodynamics,
 - structural mechanics,
 - instrumentation and controls,
 - electrical systems and
 - emission controls.

4. Specific details of CH·IV capabilities include:

- ◆ A deep understanding of the development of Resource Reports 11 and 13 (18 CFR 380) for FERC applications. Similarly, CH-IV has provided similar support for U.S.C.G. Deep Water Port Act applications. CH-IV has also worked with regulations for the Comisión Reguladora de Energía (Mexico), European Union (EN-1473) and Australia/NZ (AS 3961).
- ◆ LNG shipping modeling is performed using CH-IV-developed proprietary software. We also can perform LNG vapor dispersion modeling from LNG spills and thermal radiation modeling from LNG-related fires.
- ◆ Cost estimating is performed using LNG import facility-specific, CH-IV-developed software that is adaptable to the format requirements of client proforma evaluations.
- ◆ Project scheduling using Microsoft Project or other PC based software such as TimeLine and Primavera as required.
- ◆ Design and drafting support using the latest version of AutoCAD (with translation to other versions) and three dimensional rendering capabilities for LNG facilities.
- ◆ Process Simulation software used for design review, process optimization and verification and facility cooldown applications.



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TYPICAL OWNER'S ENGINEER ACTIVITY IN LNG FACILITY DEVELOPMENT:

1. Site Selection

- ◆ Research location of resources required to support LNG development (land, marine access, pipeline take-away capacity, electrical transmission access, zoning, etc.);
- ◆ Map review of potential sites;
- ◆ On-site survey of potential sites;
- ◆ Review of potential thermal exchange partners; and
- ◆ Evaluation and ranking of potential sites.

2. Due Diligence

- ◆ LNG Import/Export Terminal Evaluations
- ◆ LNG Site Screening for Code, Regulatory & Contract Compliance
- ◆ Seismic Design Evaluation of LNG Terminals and Storage Tanks
- ◆ Small & Medium Scale Offshore and Floating Facility Analysis
- ◆ Offshore Liquefaction and Import Concept Evaluation
- ◆ Liquefaction Technology Screening
- ◆ Peakshaving Technology Screening
- ◆ LNG Facility Site Due Diligence:
 - Collect available information concerning previous site use, including geotechnical information and sub-surface obstructions;
 - Collect information concerning site water resources, including existing wells, surface waters and municipal/industrial water sources;
 - Collect marine access details such as existing traffic, mean low water draft available, air draft obstructions, channel width, etc.;
 - Identify applicable zoning and permitting requirements for the site;
 - Identify potential risks to the project development and long term operational risks;
 - Collect information on the potential thermal exchange partners for the site;
 - Review gas (and electric) transportation capacity in the area of the site;
 - Characterize the ability of the planned facility to fit the available land; and
 - Evaluate the major impacts on project feasibility to determine the acceptability of the project site for development.

3. Conceptual Engineering

- ◆ Prepare alternative designs, technology selection and perform initial sizing of components;
- ◆ Develop heat balance for site;
- ◆ Prepare conceptual engineering report including process flow diagrams and material balances; detailed project schedule, construction cost estimate and O&M cost estimate;
- ◆ Support development of detailed project proforma and financing approval;



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- ◆ Prepare project description and inputs for air and water permit modeling; and
- ◆ Coordinate site land survey, marine studies and geotechnical sampling and evaluation performed by others.

4. Preliminary Engineering

- ◆ Obtain specific component operating characteristics for site from vendors;
- ◆ Develop project specific specifications for major components;
- ◆ Coordinate development of additional owner permits and include updates of existing ones;
- ◆ Prepare site drainage and surface run-off containment drawings;
- ◆ Complete non-marine Front End Engineering Design (FEED) of LNG facilities.
- ◆ Finalize component selection, project cost estimates and project schedule;
- ◆ Detail interface requirements with connecting pipelines, utilities and thermal exchange partners;
- ◆ Prepare EPC (Engineer, Procure and Construct) specification and assist in pre-qualification of EPC bidders;
- ◆ Define contractor guarantees for facility performance (e.g., LNG tank heat leak, LNG and NG design rates, facility fuel utilization, total facility electrical power consumption), emissions control, maintenance, operation, documentation and training;
- ◆ Prepare technical portions of regulatory filing;
- ◆ Prepare preliminary engineering report documenting details of plant design; and
- ◆ Provide technical support to evaluate bids and award EPC scope of work.

5. Detailed Design and Construction Support Engineering for EPC

- ◆ Prepare or perform technical review of specifications, drawings and engineering calculations performed by EPC Contractor;
- ◆ Provide on-site engineering support of construction activities, including site preparation, monitoring activities and review of commissioning, cooldown and startup procedures;
- ◆ Technical resolution of problems during construction;
- ◆ Provide independent assessment of project schedule and corrective actions to ensure schedule compliance;
- ◆ Review and approve proposed field changes to design;
- ◆ Maintain project files during construction and review EPC as-built information;
- ◆ Evaluate change orders to EPC scope; and
- ◆ Coordinate activities between EPC, vendors and other organizations.



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6. Start-Up Support Engineering

- ◆ Provide complete cooldown/start-up procedures.
- ◆ Review test procedures for acceptance testing of performance and emissions;
- ◆ Review results of acceptance testing for performance and emissions;
- ◆ Prepare and provide operator/technician training; and
- ◆ Maintain punchlist of items to be corrected by the EPC.

EXAMPLES OF CH-IV OWNER'S AND LENDER'S ENGINEERING AND FEED ENGINEERING:

A quick review of the list of recent examples that follows will show that CH-IV International is and has been involved in a number of active, major LNG projects as well as other projects supporting the claim of "**The LNG Specialists.**" This list of current activities includes the very recent cooldown of the Cove Point LNG Import Terminal during the summer of 2007 after major construction activities.

Project: Offshore LNG Import Terminal (Italy)

Client: Confidential

Date: 2008 – Present

Scope: Providing project completion services to the start-up of the expansion of the Terminal.

Project: Sulawesi LNG Export Facility (Indonesia)

Client: Energy World Corporation

Date: 2007 - Present

Scope: Providing Owner's Engineering services to greenfield 2 MTPA LNG Liquefaction, including FEED of balance of Plant.

Project: Oregon LNG (U.S.)

Client: LNG Development Company

Date: 2007- Present

Scope: Providing non-marine Front End Engineering Design (FEED) package for greenfield LNG terminal. Support of the permit filing to U.S. Federal Energy Regulatory Commission.

Project: LNG Import Terminal (New Zealand)

Client: Confidential

Date: 2007 - Present

Scope: Providing pre-FEED design and design studies to support consenting of the LNG import. Project on Hold.



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- Project:** AES Sparrows Point (U.S.)
Client: AES Energy
Date: 2006 -Present
Scope: Provide non-marine Front End Engineering Design (FEED) package for brownfield LNG terminal. Support of permit filing to U.S. Federal Energy Regulatory Commission.
- Project:** EcoElectrica LNG Terminal (Puerto Rico)
Client: EcoElectrica, LP
Date: 2006 - Present
Scope: Provided and providing a wide ranges of services including LNG facility RAM study, Perlite® intrusion investigation, LNG transfer line damage root cause analysis, BOG blower failure investigation, operator training, FEED for facility expansion and fire protection evaluation
- Project:** Downeast LNG (U.S.)
Client: Downeast LNG
Date: 2005-Present
Scope: Provide non-marine Front End Engineering Design (FEED) package for greenfield LNG terminal. Support permit filing to U.S. Federal Energy Regulatory Commission.
- Project:** Welsh LNG Import Terminal (UK)
Client: Confidential
Date: 2008 - 2009
Scope: Provided project completion services to the start-up of the expansion of the Terminal.
- Project:** Robeson County LNG Facility (U.S.)
Client: Piedmont Natural Gas
Date: 2008
Scope: Owner's Engineer for greenfield LNG peakshaving project. Project currently on Hold.
- Project:** LNG Peakshaving Facility – Regulatory Oversight (U.S.)
Client: State of Connecticut DPUC
Date: 2003 - 2008
Scope: Provided regulatory oversight for a new LNG peakshaving facility built by Yankee Gas in Waterbury, Connecticut. The work included RFP, engineering FEED and detailed design review; on-sight construction inspection oversight services and various engineering shop inspection services.
- Project:** Cove Point LNG Terminal (U.S.)
Client: Dominion Cove Point
Date: 2008
Scope: Provided project completion services to the start-up of the expansion of the Terminal.



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- Project:** LNG Peak Shavers – Milford and Rocky Hill (U.S.)
Client: Energy East Corporation
Date: 2008
Scope: Prepared technical report that quantified the impact of possible changing feed gas quality due to imported LNG on the existing liquefaction plants.
- Project:** Wescott Plant Peak Shaving Facility (U.S.)
Client: Chart Energy & Chemicals
Date: 2008
Scope: Performed a diagnostic performance analysis of the Wescott liquefaction system.
- Project:** Dahej Jetty Expansion Project (India)
Client: Petronet LNG Limited
Date: 2008
Scope: Provided FEED for LNG import terminal expansion.
- Project:** Energia Costa Azul LNG Terminal (Mexico)
Client: Black & Veatch
Date: 2007 – 2008
Scope: Provided project completion services to the start-up of the expansion of the Terminal.
- Project:** Confidential (Europe)
Client: Confidential
Date: 2007- 2008
Scope: Providing in depth technology analysis study for offshore liquefaction applications.
- Project:** Sonora LNG (Mexico)
Client: Terminal GNL de Sonora
Date: 2007
Scope: Providing in depth seismic analysis and design recommendations for the LNG Import Terminal.
- Project:** LNG FPSO (West Coast, Africa)
Client: Confidential
Date: 2007
Scope: Performed feasibility study on the gas pretreatment and liquefaction technology supporting the development of a floating 1 to 2 MTPA natural gas liquefaction, storage and offloading facility.
- Project:** Cove Point LNG Terminal Maintenance Turnaround (U.S.)
Client: U.S. Pipeline
Date: 2007
Scope: Prepared de-inventory/warm-up and cooldown/start-up procedures supporting the maintenance turnaround and expansion project tie-in for the terminal. Directed implementation of procedures.



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Project: **Dragon LNG Import Terminal (U.K.)**

Client: **Whessoe - Volker Stevin JV**

Date: 2007

Scope: Provide external Technical Audit of design, construction, installation, start-up and operation of new LNG terminal.

Project: **Port Esquivel LNG Terminal (Jamaica)**

Client: **Government of Jamaica**

Date: 2005 - 2007

Scope: Develop preliminary design for terminal. Prepare FEED bid package. Evaluate FEED bid responses. Oversight and evaluation of FEED.

Project: **Cameron LNG Terminal (U.S.)**

Client: **Sempra Energy International**

Date: 2002 to 2007

Scope: FERC permit support and Owner's Engineer for Sempra during FEED phase for their Cameron, LA import and regasification terminal project. Assist with EPC bid evaluation.

Project: **Bienville Offshore Energy Terminal (U.S.)**

Client: **TORP Technology.**

Date: 2004 - 2006

Scope: Provided technical due diligence on original overall process design. Provided Project Development/Management for the Technical Concept and current design, Regulatory Compliance and Environmental Impact Analysis for the Deepwater Port License development for the Bienville Offshore Energy Terminal, a Deepwater Port in the Gulf of Mexico.

Project: **Bear Head LNG Terminal (Canada)**

Client: **Anadarko Petroleum**

Date: **2004 to 2005**

Scope: Evaluate FEED package and incorporate improvements. Evaluate LNG tank bids. Prepare EPC bid package. Evaluate EPC bids. Prepared O&M Mobilization Plan.

Project: **Port Arthur LNG Terminal (U.S.)**

Client: **Sempra Energy International**

Date: 2004 to 2006

Scope: Owner's Engineer for Sempra during preparation for FERC filing on their Port Arthur (TX), 1.5 Bscfd LNG import and regasification terminal project.

Project: **Costa Azul LNG Terminal (Mexico)**

Client: **Sempra Energy International**

Date: 2003 to 2006

Scope: Owner's Engineer for Sempra during FEED phase for their Baja, Mexico import and regasification terminal project.



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- Project:** **Bahia Quintero LNG Import Terminal (Chile)**
Client: **GASCO S.A.**
Date: 2005
Scope: Produced an economic feasibility study for a 2.7 MTPA LNG import terminal. Assisted client's response to a tender issued by a "pool" of customers for the sale of natural gas to the pool located in Chile. CH·IV prepared a tolling based tariff for the sale of natural gas to the pool, which included a calculation of the regasification fee and also the development of technical and economic reports associated with the design and the operation and maintenance of the facility.
- Project:** **P.T. Badak (Indonesia)**
Client: **Pacific Oil & Gas**
Date: 2005
Scope: Provided a "Dock Occupancy Study" using CH·IV proprietary ship simulation software to determine if existing marine infrastructure was adequate to meet needs of potential expansion of LNG production.
- Project:** **Chillum Gas Storage Facility (U.S.)**
Client: **Washington Gas**
Date: 2004 - 2005
Scope: Provided siting support, preliminary engineering, regulatory permit application development and EPC qualification and RFP development for an LNG peakshaving facility. Provided engineering oversight of EPC activities and expert testimony on the safety of LNG before the local Zoning Hearing Examiner.
- Project:** **BP Berau Ltd – Tangguh LNG Export Project (Indonesia)**
Client: **Baker & O'Brien**
Date: 2005
Scope: Provided technical support to Baker & O'Brien as Lenders Technical Consultant on Tangguh's ability to develop and sustain operations at its planned export facility. Reviewed the design of the LNG facility including an assessment of the engineering, the selected technology, design philosophy, engineering and safety standards and specifications, operations and maintenance planning to meet the performance requirements.
- Project:** **Blue Marlin LNG Import Terminal (Bahamas)**
Client: **FPLG and Tractebel NA**
Date: 2004 - 2005
Scope: Owner's Engineer for project; responsible for preparing preliminary design for inclusion into FEED bid package for 750 mmscf/d LNG terminal in the Bahamas.
- Project:** **Crystal Clearwater Port (U.S.)**
Client: **Crystal Energy**
Date: 2001 to 2004
Scope: Project management, public outreach, preliminary design and permitting support to Crystal Energy on their offshore LNG regasification facility located on Platform Grace.



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Project: **Bioko Island LNG Facility (Equatorial Guinea)**

Client: **Marathon Oil Company**

Date: 2002 to 2004

Scope: Evaluated liquefaction technologies and Owner's Engineer during the FEED of this greenfield 3.7 MTPA baseload LNG export project.

Project: **Pt. Tupper LNG Terminal (Canada)**

Client: **Statia Terminal**

Date: 2004

Scope: Provide feasibility study for expanding an existing industrial location to integrate an LNG/CNG import terminal. Feasibility study included unique integration possibilities as well as more traditional design, safety, security, pipeline interconnect, operational and economic considerations.

Project: **Cove Point LNG Terminal (U.S.)**

Client: **Dominion Resources**

Date: 2003-2004

Scope: Prepared/presented 3-week "LNG Basics" Technician training for reactivation of the Cove Point LNG Terminal. Training included 2-binder supporting textbook. Prepared and supported 2-week "Operations" training. Prepared 130-page "Pre-Cool Procedure" for testing integrity of LNG transfer system. Prepared 150-page "Reactivation/Start-Up Manual" which led to the first unloading of an LNG tanker at Cove Point in over 20 years.

Project: **Lake Charles LNG Terminal Expansion (U.S.)**

Client: **CMS Energy**

Date: 2002 - 2004

Scope: Reviewed engineering design by engineering contractor, including PFDs and P&IDs. Provided cost-saving alternatives on vapor handling systems and LNG piping. Evaluated major equipment vendor proposals. Working very closely with Terminal operations staff to assure plant operability and reliability.

Project: **Tijuana Regional Energy Center (Mexico)**

Client: **Marathon Oil Company**

Date: 2002 to 2003

Scope: Defining and reviewing engineering studies and system design by FEED engineering contractor in the contractor's offices, including facility integration alternatives, systems/equipment definition, environmental issues and site layout. CH-IV provided valuable input to owner to assure the best possible design to meet project objectives.

Project: **Chillum Gas Storage Facility (U.S.)**

Client: **Washington Gas**

Date: 2003

Scope: Provided a study involving conceptualization and preliminary engineering for additional on-system peak shaving capacity, which may include on/off system storage, propane-air expansion/new construction and/or LNG production and storage.



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- Project:** **EcoElectrica LNG Import/Power Facility (Puerto Rico)**
Client: **North Ridge Resources**
Date: 2003
Scope: Provided reliability, availability and maintainability (RAM) study in association with parent company (MPR Associates). CH-IV was responsible for the LNG systems in the facility.
- Project:** **Dahej LNG Import Facility (India)**
Client: **SBI Banking Consortia**
Date: 2003
Scope: Provided Lender's Engineering and technical support to an assessment and evaluation of the Petronet LNG import terminal and regasification facilities project under construction in Dahej, Gujarat, India.
- Project:** **Baja Mexico LNG Import Terminal – Owner's Engineer**
Client: **Gas Natural Baja California, S. de R.L. de C.V.**
Date: 2001-2003
Scope: Prepared Design Basis and Operating Philosophy documents and assisted in preparation of Request for Quotation to provide Front End Engineering Design (FEED) package.
- Project:** **EcoElectrica Power Facility (Puerto Rico)**
Client: **Confidential**
Date: 2002
Scope: Provided due diligence on purchase of the first dedicated LNG-powered independent power producer.
- Project:** **Hackberry, LA Import Terminal Project (U.S.)**
Client: **Sempra Energy International**
Date: 2002
Scope: Reviewed project design and permitting status, determined validity of current FEED package including: process design, site layout, equipment selection, contract issues, cost and schedule. CH-IV subsequently advised client of the impact on the project of the investigation results.
- Project:** **Enron LNG-Related Assets - Due Diligence (U.S. and Bahamas)**
Client: **Confidential**
Date: 2002
Scope: Provided due diligence of various Enron-owned LNG-related assets under control of bankruptcy court. Responsibilities included 1) Review of the EPC bid and cost estimate for construction of the Bahamas LNG import terminal project; 2) Technical evaluation of the LPG extraction process proposed for the Bahamas; 3) Evaluation of the Bahamas-to-Florida high pressure submarine pipeline; and 4) Preliminary reliability, availability and maintainability study for the Elba Island LNG facility.



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Project: Cove Point LNG Terminal Reactivation (U.S.)

Client: Williams Energy

Date: 2000 - 2002

Scope: Reviewed engineering design by engineering contractor. Provided conceptual design of revised vapor handling system, vaporizer pH control system, alternative nitrogen production facilities and LNG blending concept. Provided studies on vaporizer replacement options, second-stage pump enhancements and unloading system pressure drop. Followed permit development. Reviewed cost estimates for construction and plant operation.

A few older projects of particular note:

Project: Lake Charles LNG Terminal Expansion (U.S.)

Client: CMS Energy

Date: 2001

Scope: Prepared conceptual design package for second expansion of the Terminal. The expansion scope included a new full containment LNG storage tank, sendout pumps, high pressure sendout pumps and vaporizers.

Project: LNG Import Terminal (Mexico)

Client: Confidential

Date: 2001

Scope: Reviewed third-party produced conceptual design package. Included in the review were: Design basis, technical and process description, PFDs, plot plan and exclusion zone drawing and budgetary costs.

Project: Lake Charles LNG Terminal Expansion FERC Filing (U.S.)

Client: CMS Energy

Date: 2001

Scope: Reviewed engineering design by EPC contractor. Assisted in preparation of data for FERC filing. Provided conceptual design and cost estimate of gas turbine generator waste heat recovery. Reviewed most plant systems for adequacy in supporting plant expansion. Provided studies on alternatives for waste heat utilization and optimization of existing gas recondensing system. Provided alternative PFD.

Project: LNG Terminal (Mexico)

Client: Gas Natural Baja California, S. de R.L. de C.V.

Date: 2001

Scope: Assisted in preparation of documents for submission to the Comisión Reguladora de Energía (CRE), Mexico's equivalent of the FERC. The documents included: drafts of operations and maintenance manuals, documentation of safety procedures, plant contingencies and civil protection, recommendations on which international LNG standards should be implemented and justification on the choice of LNG tank design.



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Project: LNG Peakshaving Facility Retrofit (U.S.)

Client: Confidential

Date: 2001

Scope: Provided conceptual design for converting an existing LNG peakshaving facility to accept marine cargoes of LNG.

Project: Sacramento LNG Production Facility (U.S.)

Client: PG&E

Date: 2001

Scope: Provided LNG facility design and permitting assistance for new LNG production facility.

A few older projects of particular note:

Project: Lynn LNG Facility (U.S.)

Client: Fleet Bank

Date: 1998 - 1999

Scope: As Lender's Engineer, provided an 80-page evaluation of the condition of the Lynn, Massachusetts peakshaving facility.

Project: Milford LNG Peakshaving Facility (U.S.)

Client: Panhandle Energy Corporation

Date: 1996 - 1997

Scope: Provided equipment condition study and due diligence evaluation for Panhandle. Provided environmental risk assessment study. Provided liquefaction process evaluation and recommended alternatives to increase performance. As-built and upgraded P&IDs and electrical drawings to AutoCad. Helped draft Resource Report No. 13 and responded to FERC data requests.

Project: GLZ2 Liquefaction Complex (Algeria)

Client: Sonatrach, as subcontractor to Tractebel Industries

Date: 1993 - 1995

Scope: Provided owner's mechanical, electrical and instrumentation engineer in the re-design of the 1,000 mmscfd GLZ2 liquefaction facility.

Project: Cove Point LNG Terminal (U.S.)

Client: PEPCO

Date: 1993

Scope: Provided due diligence for client on purchase of 50% of the facility. Provided equipment condition study.