Jose D. Gutierrez, PE: Sr. Principal Design Engineer

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EDUCATION

Carleton University – Ottawa, Canada
Bachelor of Engineering, Mechanical Engineering **June 1982**

Note: Scholarship by the Government of Venezuela in 1976.

ACTIVE PROFESSIONAL LICENSES / CERTIFICATES

Registered **Professional Engineer**: Texas (US), Quebec (Canada), Venezuela.

SKILLS

Multilingual: Fluent in English, Spanish, French
Note: Italian, Portuguese: Working fluency

Codes and Standards: Knowledge of Industry Codes, Standards and Recommended Practices: API, ASME, STS, ASTM, NFPA, AWS D1.1, P.I.P, ASHRAE, NB, NEMA, ANSI.

Software: Fired Heaters, Steam Boilers, Pipe-flow, Flares.

Expertise: Subject Matter Expert / Technical Authority on fired equipment.

MEMBER OF PROFESSIONAL ASSOCIATIONS

ASME / NSPE / NCEES

PROFESSIONAL EXPERIENCE

Confidential – Toledo, OH **June 2016-July 2016**
Advisor-Contract

- Provide field advisory assistance during installation of 1 Steam Boiler system at the confidential Plant.
- The boiler came from Canada.

Tulsa Heaters Inc – Corpus Christi, TX **April 2016**
Assembly-Contract

- Provide field advisory assistance during assembly of WHRU and 1 exhaust (ducts, support steel, silencer) trains at Kiewit Offshore Yard, Ingleside, TX.
- The EPC Company for this project was Wood Group Mustang and Tulsa Heaters Inc. supplied these units.

Fluor - Mexico City, MX **July 2015 - December 2015**

Director of Engineering

Same Responsibilities as Wood Group Mustang **and**.

- Mentor and train junior Engineers on Fired Equipment; Design and Installation.
- Fired Heater Supervisor for a project for PEMEX (Client in Tula). Note: Other than Fired Equipment assistance, being fluent in Spanish was "**key"** to success at the Mexico City office assignment with Fluor.

Wood Group Mustang – Houston, TX **October 2014 – June 2015**

Sr. Fired Equipment Specialist / Technical Authority for Fired Heaters

- Preparation, review and creation of job specifications, data sheets and requisitions for Fired Equipment.
- Assistance with constructability studies, proposals, manhour estimates, and feasibility assessments.
- Interaction with the client and / or internal Department disciplines during all phases of a project and assistance in troubleshooting and finding solutions for Fired Equipment.
- Receive Technical Proposals and evaluate each Seller's proposal for acceptance to the specified operating conditions. A TBE form was preferred to cover all Bidders' conformance to the issued requisition.
- During project Execution, attend kick-off meeting, review Seller design deliverables (drawings, calculations, answers to support other disciplines).
- Oversee the work of less experienced colleagues and provide technical expertise and consulting.
- Maintain a project schedule and budget to meet the needs of the project and client.
- Develop and maintain specifications related to Fired Equipment and act as Technical Authority for Fired Heaters.
- As Technical Authority-Fired Heaters, I reviewed and assisted junior Engineers and guided them through the life cycle of a project.

Fluor Corporation – Sugarland, TX **July 2000 – October 2014**

Field Heater Installation Advisor

- Technical advisory responsibility for four (4) Propane De-hydrogenation Fired Heaters at **Dow Chemical** in Freeport, TX.
- During daily assessments, observe the installation sequence and take note of any installation issues to be brought up to the applicable party for resolution.
- Issue Scope of Work documents, Request for Information (RFIs), Construction Work Packages (CWPs) and provide technical assistance to the Contractor, Inspection of equipment upon arrival (when requested), Issue technical reports, interact with Home office Heater Engineer, Equipment Suppliers, Client…
- I also assisted our QC group with inspection of refractory rework conducted by the project subcontractor.

Sr. Fired Equipment Engineer

- Responsible engineer for projects at **KNPC-Kuwait** (New and existing fired heaters), BASF Pasadena, (Steam boiler), CPChem Baytown (Cracker Furnaces) and provide technical assistance to other Fluor offices related to ground flares and a mentor to new hires (when requested).

- Attend Burner and F.A.T testing of Skidded Fuel Trains and witness operation of the B.M.S Panel with permissive / interlock points for acceptance, prior to Shipping release.

- Attend Flare Testing and F.F.G Ignition Skid testing for acceptance, prior to Shipping release.

Engineering Manager

- Manage a group of about 40 personnel including engineers (all Disciplines), Designers (all Disciplines), Document Control, Permit Coordinators, Surveyors and Material Control at a new Copper / Molybdenum Plant in **Chile**.

- During this tenure, I guided and supervised the team during daily activities, reviewed and approved RFIs, attended management meeting within the company, and within the client to present engineering progress.

- Acted as week-end field manager, and reported construction progress during the week-end review and approve turnover packages, assist to meetings with contractors, contracts group, project controls, construction, issue weekly and monthly engineering reports for engineering, assist in resolution of non-conformances.

Sr. Project Lead Mechanical Engineer

- Prepare Scope of Work, Prepare RFQs, conduct Quotation evaluations, review vendor drawings, calculations, witness Performance runs in the shop.

- Provide technical assistance to the customer's engineering and plant personnel related to Capital and O&M activities of two (2) 800Mw each, Super Critical Coal fired Power Boilers, SCRs, Scrubbers, Fuel Handling Systems, etc. at **Luminant** Power Plant near **Franklin, Texas**.

- Two (2) Junior Engineers were assigned to me and the Mechanical Department in Sugar Land was able to assist whenever I needed additional Engineers for short duration.

- I prepared estimates, schedules, project execution plans, work authorizations, and monitored project cost expenses.

- Attended chair meetings with the client and subcontractors to review status of engineering, procurement, construction, look ahead and concerns, conduct technical sizing (submersible pumps and piping), conduct technical activities (as required), work with electrical, instrument, piping engineers, Designers while tracking their performance and deliverables on a given project.

- For some projects where outside engineering companies are contracted by the client, my role has a project engineer function to provide oversight, monitor progress and assist the client as needed.

Sr. Mechanical Engineer Lead

- Field Engineer during the refinery expansion: Crude & Vacuum heaters, Frac & Vac Towers, Stripper Tower, Internal Trays, Other Pressure Vessels, Rotating Equipment, Stacks, Burners, Ladders and Platforms, Insulation, Refractory Thermal Dry-out, Field Repairs, Rework, etc., and development of Scope Of Work , Construction Work Packages, Request For Information, Assistance with preparation of rigging and lifting packages, technical assistance to Contractors, Inspection of equipment upon arrival, technical report writing and interaction and reporting with Home office, Equipment Suppliers, Client, etc at the **BP** refinery in **Whiting, Indiana**.

Sr. Fired Heater Installation Advisor

- Technical Engineer providing technical assistance to the client and mechanical contractor during refinery expansion: Coker heater, Crude and Vacuum heaters, Hydrocracker heater, Platformer heater,

Reactor and Reboiler heaters, Charge heaters, Sulfur Recovery Unit, Package Steam Boiler and resolution of Non Conformances, back-charges, development of Scope Of Work documents for Third Party Inspection and Thermal Dry-out of heater refractory at **Marathon** Petroleum Refinery in **Garyville, Louisiana**.

Lead Boiler and HRSG Engineer

- Lead Engineer for Power Boiler and Heat Recovery Steam Generator retrofit for **Valero** Power Plant at **Delaware City, Delaware**, Issued a Scope of Work, Preparation of P&IDs and Review Boiler Retrofit Bids.

Sr. Fired Equipment Engineer

- New Flare and Incinerator, revamp of existing garbage Incinerator, Modifications to six (6) existing Fired Heaters (Crude and Vacuum) for existing refinery, Two (2) Thermal Incinerator and five (5) Package Boilers for **SABIC** in **Al-Jubail, Saudi Arabia**, New Flares and CO2 Snuffing System-Fixed Offshore Platform, Boilers, Heat Recovery Steam Generator, Flares for FPSO and topsides project for CNOOK (China-Exxon-Mobil), Hurricane-Damaged **Entergy** Power Plant equipment in **New Orleans, Louisiana** such as Steam Boilers, rotating equipment, Fire Assessment of heat exchangers, vessels, cold boxes, rotating equipment, CO boiler retrofit in other Plants.

- In addition, Combined Cycle Power Plant Projects (up to 1200 MW and Gas Turbines, type H), Coal fired Power Plant (250 MW gross) Proposal, CFB Steam Boilers (550 MW gross), Charge and Reheat Fired Heaters, Technical audit of Utility Boiler Manufacturer in India for 5 x 500MW.

- NOx Reduction Projects at **Exxon Mobil** Refinery-Baytown: Fired heater / CO boiler retrofits including burners, fans, expansion joints, ducts and heater modifications.

- About twenty-five (25) Fired Heaters and three (3) CO Boilers were revamped. Heater types: Reheat, Vacuum, Crude, Hydrotreater, 500 MW Combined Cycle Power Plant for Duke Energy, Combined Cycle Power Plants in the US and Brazil.

- On some projects I had assigned resources (Drafting, Engineering Specialists) under my supervision.

Raytheon E&C – Houston, TX **March 1998 – July 2000**

Sr. Consulting Engineer II

- Responsible Engineer for Fired Heaters, Boilers, Flares, steam Reformers, piping installation for **Marathon** Oil, **Equatorial Guinea**. Responsibility included the preparation of Request for Proposal, review of same, Issued Technical Specifications for Steam-Methane Reformer for a 2,500 MTD Methanol Plant, Elevated Flare and two (2) Steam Boilers.

- Rated some Shell & Tube Heat Exchangers (single and dual pass) using HTRI. Also, used TEMA Code book to ensure design was correctly done by the Supplier.

- Cogen Expansion for **Conoco Phillips** in **Sweeny, TX**, USA: Interconnecting Steam Piping.

Black & Veatch - Kansas City, KS **Feb. 1991 –March 1998**

Sr. Fired Equipment Engineer

- Responsible Engineer for Fired Heaters, Industrial Steam Boilers, Waste Heat Recovery Units, Incinerators, Thermal Reactors, Burners, Catalyst, Fuel Trains, Flares, Reformers, Sulfur Recovery Unit for Customers, Fractionator, Tail Gas Incinerator and Sulfur Recovery Unit, Co-generation Plants, Coal Gasification Projects, Inspection of boilers, HRSGs.

Prior Employers, 1982 - 1991:

PETRO-CANADA: Process / Project Engineer positions, responsible for Inspection and Refinery Turnaround activities.

BABCOCK & WILCOX, CANADA: Field Construction Engineer, Construction Engineer, Industrial Boiler Sales Engineer, Technology Development Engineer, Boiler Performance Test Engineer. At this Company, I learned about proper design, fabrication and performance of Industrial boilers in Pulp & Paper Mills, Process, Refinery, Petrochemical and Utility Boilers (over 500 MW).

PDVSA, VENEZUELA: Process Engineer in the office / field performance engineer collecting operating data on Gas Turbines, Pumps, Motors and Cooling Towers to report Overall Efficiency and expected date for removal and change-over for a conditioned unit.

General in all projects:

A. Assisted the Process Engineer with datasheets.
B. Reviewed and commented PFDs and P&IDs.
C. Reviewed Control BMS and SIL architecture
D. Participated in HAZOP and 3D models (in-house and Vendor locations)