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35+ years pipeline engineering experience in the Oil and Gas Industry, including natural gas, refined products, molten sulfur and sulfur handling experience in Eastern Europe the US and Middle East, including management, project engineering, design, construction, pipeline integrity and consultant experience.

ENTERPRISE PRODUCTS

April 2014 – Present

Houston, TX

Senior Staff Pipeline Integrity Engineer

Major responsibilities include the following:

- Implementation of the company's written Integrity Management Program (IMP) as well as supporting standards, procedures, and practices for all pipeline assets. Identify improvement opportunities and support improvement initiatives for the IMP and supporting documents.
- Identify and develop new and improve existing preventive and mitigative measures through participation in Informational Analysis processes. Identify and drive improvements to the Information Analysis process.
- In addition to providing project specific support, provide engineering expertise and technical support for other Pipeline Integrity Engineers involved in Pipeline Integrity Projects such as welding calculations, material selections, hydrostatic test plan design, MOP/MAOP and other pressure related calculations, evaluation of defects and recommend appropriate repairs.
- Pro-actively evaluate new defect evaluation and repair methods and technologies. Determine value to organization and drive implementation where appropriate.
- Evaluate Integrity Assessment results to determine need for temporary pressure reductions and the need for repairs and repair method.
- Provide support for pressure reduction decision making associated with Pipeline Integrity activities.
- Provide IMP principles and design input to new pipeline construction projects and lead due diligence efforts within Pipeline Integrity Engineering.
- Develop and improve IMP reporting of performance measures. Analyze performance measures and draw conclusions in order to understand and improve IMP effectiveness.
- Responsible for providing engineering technical support regarding the evaluation and failure analysis for in-service releases including coordination with metallurgical laboratories, metallurgical report analysis, and recommendation of additional activities as necessary.
- Interpret developing changes to pipeline regulations, industry standards, integrity assessment methods, repair methods, emerging technologies, etc. and how they could impact the Integrity Management Program and the organization.

QATARGAS OPERATING CO., LTD

2006 – 2011

CSP Project

Bucharest, Romania - Ras Laffan, Qatar

Lead Pipeline / Piping Engineer – CSP Project Project Management Team (PMT)

The Common Sulfur Project (CSP) facilities were designed to handle 12,000 tons/day of molten sulfur generated by various LNG producers at Ras Laffan, Qatar, including Qatargas, Rasgas, Barzan, Dolphin and Shell GTL LNG Plants. I was involved throughout design, construction and commissioning of 34 miles of 12" insulated and electrically heated pipelines, 2 molten sulfur storage tanks, 13 sulfur granulation units, 1 granulated sulfur storage building and 2 granulated sulfur ship loading units with regards to the CSP project. Responsibilities In Bucharest included oversight and review of electrically and steam heated pipeline and plant piping design for CSP Project in WGI's design office. After transfer to Qatar, provided PMT engineering support for continuing design regarding pipeline and piping issues as well as general process and system function issues. In addition to these duties, continued providing support to both construction and commissioning departments and coordination with Qatargas Operations up to handover of CSP systems to Qatargas for continued operation of facilities.

CORRPRO COMPANIES, INC

2004 – 2006

Regional Office

Houston, Texas

Senior Project Manager – Pipeline Integrity Division

Duties and responsibilities include development of pipeline integrity management plans for both gas and liquid pipeline operators to ensure their compliance with DOT regulations, management and execution of in-line inspection of pipelines including pipeline cleaning, gauging and inspection, analysis of data after receipt from in-line inspection vendors and repair recommendations, field evaluation of pipe defects and determination of remaining strength of pipe, development of stress corrosion cracking direct assessment procedure.

ABV ROCK GROUP, KB**1991 – 2004****Project Head Office
Riyadh, Saudi Arabia****Chief Pipeline Engineer**

Design, construction and consultancy services to confidential client in Saudi Arabia. Project scope included conceptual / detailed design, construction and commissioning of underground storage facilities at five (5) locations intended for long term storage of refined petroleum products including related multiproduct liquid hydrocarbon pipelines serving each of the facilities.

Administered Subcontracts for five packages for multiproduct pipeline systems designed in accordance with Saudi Aramco Standards, and subsequent coordination with client for approval. Pipeline route selections; coordinated with client and government authorities to achieve approval of routes ranging in length from 5 to 150 miles.

Daily technical support to field engineering, construction contractor and operations during construction, commissioning and start up phases. Evaluation of bids for major equipment, technical review of vendor design and incorporation of vendor information into the project design drawings and documents.

Simulation of pipeline operations on SPS (Stoner Pipeline Simulation) including development of and fine-tuning of start-up, shutdown and operating procedures for liquid pipeline systems in order to optimize operations and provide a basis for operator training.

TENNECO GAS TRANSMISSION CORPORATION**1990 - 1991****Corporate Headquarters
Houston, Texas****Staff Project Engineer**

Responsible for all aspects of construction projects from the conceptual design phase through commissioning. Supervised the preparation of estimates, construction drawings, bid packages, procurement of materials, and contract documents as well as project cost tracking, coordination with Division Offices and other departments. Supervised inspection teams and third party construction contractors. Technical projects included design/construction of 6 miles of 12" pipeline and related 150 MMCFD hydrogen sulfide removal plant, 3 miles of pipeline from platform to platform offshore Louisiana, and numerous subsea hot taps. Conceptual design of 100 mile 20" Viosca Knoll pipeline in water depth of up to 600'.

TEXAS EASTERN TRANSMISSION CORPORATION**1979 - 1989****Manager (1987 – 1989)
Pipeline Operations Department
Corporate Headquarters
Houston, Texas**

Department manager overseeing development and implementation of policies and procedures as per DOT requirements. Assured operational uniformity for system consisting of 10,000 miles of interstate natural gas transmission pipelines. Department has custodial responsibility of DOT required documents related to pipeline operations.

Major role in the most aggressive inline tool inspection and pipeline rehabilitation effort in the industry at the time, inspecting 6000 miles of pipeline, and investigated 7000 anomalies. Developed PCB Cleanup Program for contaminated pipelines reducing PCB levels to acceptable levels. Position required daily coordination meetings with other various Operations Managers regarding department and field activities. Position required excellent working relationship and daily coordination with Operations Managers and Vice President of Operations, and Director of Gas Control, as well as in depth knowledge of Pipeline operations.

**Operations Supervisor (1986 – 1987)
Baytown Division Office
Baytown, Texas**

Reported to Division Manager, and served as deputy, as required. Territory of responsibility included 4000 miles of pipeline, 12 compressor stations in Texas, Louisiana and Mississippi. Supervised 11 Pipeline Crew Supervisors and 5 Compressor Station Supervisors. Developed technical logistics required for pipeline maintenance operations: cleaning (pigging) operations, compressor unit overhauls, pipeline shutdown, inline tool inspections, leak detection surveys, right-of-way maintenance, administrative approval of purchase orders, employee expense accounts, and various administrative requirements.

Staff Engineer (1982 – 1986)
Pipelines Operations Department
Corporate Headquarters
Houston, Texas

Specific duties included development and implementation of company Welder Qualification Program. Technical review of capital expenditure work orders submitted by Division Offices, coordination of pipeline shutdowns with Division Offices and Gas Control Department. Coordination of approval process for new gas purchase connections to the pipeline system with various departments and Division Offices, sizing of hot taps, development and implementation of pipeline repair criteria, damage prevention program, technical support as required to ensure compliance with applicable codes and regulations.

Engineer (1979 – 1982)
Baytown Division Office
Baytown, Texas

Design of pipeline, compressor station, measurement, corrosion control, and data acquisition facilities as well as new gas purchase and sales connections to the system. Issued work orders, responsible for inventory of materials and final reconciliation of maintenance projects. Assisted in preparation of maintenance budget. General engineering duties, as required.

EDUCATION

Texas A & M University, College Station, TX
B.S., Chemical Engineering, 1978

Cuero High School
Cuero, Texas Graduated, 1974