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Terry Rittenhour

Executive Consultant

Executive Summary

Terry Rittenhour has 39 years of experience in the natural gas pipeline industry with expertise in gas transmission and storage operations. He has provided technical guidance for the development of three salt dome natural gas caverns and associated facilities totaling more than 25 BCF of storage, with an estimated cost of \$250,000,000. Mr. Rittenhour was the Project Manager for the development of a Pipeline Integrity Management Program including all plans, procedures and policies developed to comply with the DOT Pipeline Integrity Management in High Consequence Areas Rule. Mr. Rittenhour provided technical direction and guidance for a natural gas transmission system of over 13,000 miles of pipeline. Mr. Rittenhour acted in this capacity for over 20 years with increasing responsibility including Director of Pipeline Operations for three Years.

Accomplishments/Experience

As the former Director of Pipeline Operations and Manager of Storage Operations, Mr. Rittenhour was responsible for technical support and project management for one of the largest natural gas transmission and storage companies in the US and Canada. His industry experience also includes:

- Assisted in the development of the Damage Prevention Program for the company. Helped develop and implement company procedures for safe excavation and line location. Reviewed and recommended line location equipment for the company. Has a working knowledge of how line location equipment operates and has used such equipment to locate steel pipelines underground.
- Developed Standard Operating Procedures for the operation and maintenance of existing facilities and the solution mining of new caverns for two salt dome storage facilities.
- Sponsored a cross-company team, including representatives from three major U.S. gas transmission companies, to implement a common GIS system for all gas transmission and distribution facilities. Estimated cost \$5,000,000.
- Salt dome cavern rehabilitation, cavern expansion, capacity expansion including piping and horsepower addition and disposal well maintenance.
- Worked within the Operational Compliance and Pipeline Integrity Department to facilitate the development of a number of projects including the Pipeline Integrity Management (IMP) process and IT software tools developed to support the IMP.
- Provided technical direction and support for gas pipeline operations for four interstate pipeline companies totaling over 13,000 miles of pipe. Co-sponsored capital budget which has averaged > \$75,000,000 annually.



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- Responsible for the initiation, maintenance and update of O&M and Standard Operating Procedures for all gas pipeline facilities. Procedures included all aspects of natural gas transmission and storage including corrosion control; measurement; compression; and pipeline maintenance such as pigging, valve operation, pipeline blowdown, repair and purge and pack.
- Project development for all capital and major O&M projects totaling in excess of \$8,000,000 for natural gas transmission and compression facilities
- Along with a staff of seven engineers and technicians, managed projects ranging from anomaly pipe replacements to compressor automation for 3,600 miles of onshore and offshore pipeline; and 390,000 horsepower of compression facilities.
- Technical service for 24 natural gas compressor stations including motor, engine, and turbine driven compressors totaling over 500,000 horsepower.
- Developed an expertise in both the mechanical and electrical aspects of the operation and maintenance of the above-mentioned equipment.

Education

Bachelor of Science Electrical Engineering - University of Missouri

Certifications / Training

- Registered Professional Engineer in Missouri
- GRI/PRCI Measurement Technical Committee – 2001 to 2003
- Enhancing Executive Leadership Skills Course
- Systems Thinking
- Oil Spill Response Training
- Certified Welding Inspector