

Loring Holdings, LLC

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ELECTRONICALLY FILED SEPTEMBER 11, 2014

Mr. Harry Lanphear
Administrative Director
Maine Public Utilities Commission
State House Station 18
Augusta, ME 04333-0018

Re: EMERA MAINE – Request for Approval of Certificate of Public Convenience and Necessity for Construction of Transmission Line in Northern Maine, Docket 2014-0048

Mr. Lanphear and Hearing Examiners:

Per conversation with Mitch Tannenbaum on 9/10/14, Loring Holdings, LLC (Loring) hereby introduces the following parties who will be joining Loring witnesses at the upcoming Technical Conference on September 17th and will be available to respond to questioning by the Hearing Examiners, project proponents and other interested parties.

Loring would like to introduce Rich May Law as Counsel for the above-referenced proceeding. Shaela Collins, Esq. and James Behnke, Esq. will be joining us at the upcoming Technical Conference on September 17th. Their bios and credentials are attached herein.

Loring would also like to introduce CH2M Hill as Owner's Engineer of Record for the Loring Pipeline and Cogeneration Project. CH2M has been engaged by Loring to provide services supporting project development, technical support for facility design, facility and major equipment specifications, EPC bid packages and construction management services of the Loring CoGen and related electrical interconnection and natural gas infrastructure at the Loring Commerce Centre. Tom Bozeman, Project Director for CH2M, will be available to respond to technical questions regarding the Loring proposal. Blake Evans will be able to respond to questions about the Pipeline proposal. Les Mathine will be able to respond to questions about the Loring CoGen. Clark Harrison will be available to respond to questions about CH2M. Their resumes are attached herein.

Both Rich May and CH2M are familiar with the Loring CoGen Project proposal, the testimony of Hayes Gahagan, Tim Johnston and Carl Flora and the Data Requests and Responses of Loring conducted so far in this proceeding.

Respectfully submitted,



Hayes Gahagan
Managing Member
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Shaela McNulty Collins

Counsel

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Practice Areas

Energy, Renewables and Regulated Industries

Education

Suffolk University Law School, J.D., 1993; Law Review, Editor Moot Court, Finalist

Holy Cross, B.A., 1989

Admissions

Bar Admissions:

Massachusetts and New Hampshire

Biography

Shaela McNulty Collins, counsel to the firm, concentrates on energy and public utility law, and other regulatory matters. Ms. Collins brings over six years of experience with the Massachusetts Department of Public Utilities to her practice with the firm. Both as a hearing officer and as senior counsel for the Department, Ms. Collins provided advice on complex legal, market and policy issues and worked on some of the Department's most challenging dockets, including net metering, interconnection, and long-term contract matters. She was the Department's primary attorney on many water company cases acting as hearing officer or on Settlement Intervention Staff, in addition to her work on a variety of rate matters for electric and natural gas utilities. As a member of New England States Committee on Electricity's renewable energy procurement working group, Ms. Collins helped lead the effort to examine potential mechanisms for coordinated competitive procurement of renewable resources. Ms. Collins has been a presenter at utility conferences and has participated in the National Association of Regulatory Commissioners Utility Rate School. Prior to her work at the Department, Ms. Collins handled a variety of litigation and energy project development matters in private practice. She is admitted to practice in Massachusetts and New Hampshire state and federal courts.

Ms. Collins lives in Milton, Massachusetts with her husband and two children.

Representative Matters

Represented a municipality in navigating the net metering regulatory landscape and negotiating a power purchase agreement that will facilitate the development of a solar facility in the community, which will generate up to 2.5 megawatts of electricity, reducing the town's electricity costs and providing additional tax revenues.

Represented a governmental entity in negotiating net metering agreements that will facilitate the development of two solar facilities that will generate up to 5 megawatts of electricity and that can save the client millions of dollars by reducing its electricity costs.



James M. Behnke

Shareholder

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Practice Areas

Business, Corporate & Securities

Energy, Renewables and Regulated Industries

Real Estate

Education

Harvard University, J.D., 1981

Dartmouth College, A.B., magna cum laude, 1972

Admissions

Bar Admissions:

Massachusetts

Court Admissions:

Massachusetts and United States District Court for the District of Massachusetts

Biography

James M. Behnke, a member/shareholder of the firm, concentrates on the legal issues and problems associated with energy and telecommunications facility siting. Upon graduating from law school, Jim joined Rich May. Jim has acquired extensive knowledge and expertise in areas of federal court jurisdiction, pipeline and LNG safety, federal and state land use and environmental regulation, municipal law, real property and tidelands and water law, right of way and land acquisition and federal and state eminent domain laws relating to energy and telecommunications facility siting. During the past two decades Jim has provided extensive legal counsel on corporate, tax and land use, environmental, right of way acquisition and eminent domain issues to interstate pipeline companies who have constructed natural gas pipelines transporting natural gas originating in the Mid-West, South Western Canada and off of Sable Island, Nova Scotia to the Greater Boston Area and to pipeline companies that expect to serve federally regulated liquefied natural gas facilities whether such facilities are on-shore or off-shore. Jim lives with his wife Jean in Hanover, New Hampshire. He performed active duty as an officer in the United States Navy from 1972 through 1978.

Representative Matters

Advising on federal preemption, land acquisition and eminent domain matters on numerous smaller interstate natural gas pipeline projects in Massachusetts and on state and federal offshore lands.

Advising two affiliated interstate pipelines on state permitting, federal preemption, land acquisition and eminent domain issues associated with obtaining interstate pipeline rights to transport natural gas across eastern Massachusetts, Massachusetts Bay and federal waters. This included the successful filing and management of approximately 130 eminent domain actions in federal court.

Advising an interstate pipeline on the acquisition and sale of an interstate LNG facility located in Providence, R.I. and on federal preemption of municipal zoning laws for over two decades.

Advising two interstate pipelines desiring to transport gas from Canada through Maine and New Hampshire to Massachusetts on state permitting, federal preemption, land acquisition and eminent domain issues and successfully implementing land acquisition strategy for Massachusetts lands.

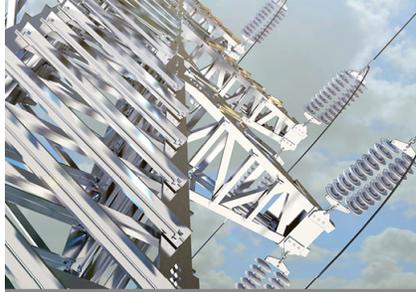
Advising an interstate pipeline and its affiliated operational pipelines in Massachusetts and other New England and Mid-Atlantic States on state permitting, federal preemption, land acquisition and eminent domain issues since its inception and construction in 1953.

Speaking Engagements & Publications

Jim appeared as a panelist representing Energy Infra-structure development interests in the Northeast Regional Ocean Council's Northeast Workshop on Regional Ocean Planning in Bristol, Rhode Island, March 12-13, 2012 and at the National Oceanic and Atmospheric Administration's Annual Training Conference in Philadelphia, Pennsylvania on May 3, 2012.

Jim has authored or co-authored with Harold Dondis articles pertaining to energy or telecommunications in several professional journals. Those articles include:

- Jim Behnke and Harold Dondis, The Clean Water Act and Federally Licensed Utilities, PUB. UTIL. FORT., November 1, 1994, 42-46.
- Jim Behnke, Safety Jurisdiction Over Natural Gas Pipelines, 19 ENERGY L. J.77-118 (1998).
- Jim Behnke and Harold Dondis, Assuring Telecommunications Access in the Commonwealth, 89 MASS. L. REV., 63-84 (2004).
- Jim Behnke and Harold Dondis, The Sage Approach to Immediate Entry Under the Natural Gas Act and Federal Power Act, 27 ENERGY L. J. 499 (2006).



Tom Bozeman Project Director

Tom brings 30 years of years of experience in utility operations, power delivery, siting and permitting, and asset management.

Education

B.S., Electrical Engineering,
Kansas State University

Years of Experience

30

Distinguishing Qualifications

- Tom Bozeman has over 30 years of years of experience in utility operations, electric transmission, regulatory, and asset management.
- Tom has managed large projects, multiple projects and large departments. Project experience includes multiple power delivery projects, including large EPC projects with multiple partners.
- Edison Electric Institute Transmission Strategic Area Committee: Chair of Emerging Issues committee
- Edison Electric Institute: former member Transmission Policy Task Force
- Rocky Mountain Electric League: Education Committee, Management Sector
- Southwest Power Pool: former member Engineering & Operations Committee, Commercial Practices Committee, Regional Tariff Committee, Security Committee
- Wyoming Infrastructure Authority
- Electric Power Research Institute: former member EHV Advisory Committee, EMF Advisory Committee

Relevant Experience

Senior Project Manager, Populus to Terminal EPC Project, PacifiCorp, Utah and Idaho

Tom led the project multidisciplinary team for 135 miles of double circuit 345kV line and three substations. His role included overseeing all engineering and procurement for the PTTTP tri-venture. The 3 year project was placed into service under budget and ahead of schedule. This was one of the largest EPC power delivery projects in the U.S.

Project Manager, Palo Verde to Browning 151 miles of 500kV Line Salt River Project, Phoenix, Arizona

Led engineering services. Project included micro siting within the permitted corridors, detailed design, conductor selection study, insulator selection study, right-of-way optimization study, equipment specifications, and engineering support during construction. The right-of-way optimization study saved Salt River Project \$18 million on the overall installed project cost. The structure design was carefully and successfully coordinated with Salt River Project's operation and maintenance practices and hot-line maintenance crew.

Senior Project Manager, Nucla to Sunshine 17 Miles Underground 115kV and One Substation. Tri State Generation and Transmission Association, Telluride, Colorado

Project included detailed design, permitting support, and construction management. The project was completed on budget and ahead of schedule. The underground line crossed an affluent ranch area, which required extensive communications and permissions from local land owners.

Senior Project Manager, Bush Ranch Wind Farm 36 Miles of 115kV and Collector Substation, Black Hills Energy, Southern Colorado

Led engineering team for detailed design to connect the wind farm renewable generation turbine resource to the grid in Colorado. The 36 mile transmission line had a 1,600 ft. canyon crossing requiring specialized crossing structures. The project was completed on budget and ahead of schedule.

Project Director, TransWest Express DC Line, TWE, Western U.S.

Led the project multidisciplinary team providing 3rd party consulting services for 700 mile DC line from Wyoming to Las Vegas. Scope included serving as an advisor on DC technology, assistance with project staging, and system impact studies for the affected WECC utilities.

Extensive system modeling and system studies were performed affecting over 25 utilities and their transmission system and operations.

Project Consultant, Snowmass 10 miles Underground 115kV and indoor substation. Holy Cross Energy, Snowmass, Colorado

Project included detailed design, permitting support, and construction management. The project was completed on budget and ahead of schedule. The route of the underground line paralleled the main entrance into an affluent ski resort, requiring extensive communications and consensus building with local stakeholders.

Senior Project Manager, Pleasant Hill 80 miles 230kV Transmission Line, Xcel Energy, New Mexico.

Led engineering team. Services included detailed design, permitting support, and specifying and ordering material. The project was completed on budget and ahead of schedule.

Senior Project Manager, Pueblo Reservoir EPC Substation Project, Black Hills Energy, Pueblo Colorado

Tom was senior project manager on this 115/34kV EPC Substation project. Led the teams for engineering, procurement, and pre-construction activities.

Senior Project Manager, Tribly Wash EPC Substation Project, Arizona Public Service, Phoenix Arizona.

Tom was senior project manager on this 230/69kV EPC Substation project. Led the teams for engineering, procurement, and pre-construction activities.

Senior Project Manager, Lynn County Substation and Two Remotes, Xcel Energy, Western Texas

Led engineering design. Project included expanding the existing substation the two transmission line get a ways, and relay upgrades at five adjacent substations.

Senior Project Manager, Yoakum 230kV Substation and Five Remote Substations, Xcel Energy, Western Texas

Led engineering design. Project included expanding the existing substation the five transmission line get a ways, and relay upgrades at five adjacent substations.



Project Manager, Roseville EPC Substation Project, City of Roseville, Roseville, California

Tom was senior project manager on this 115-13kV EPC Substation project. Led the teams for engineering, procurement, and construction activities. The project was energized and placed in service ahead of schedule and on budget.

Previous Experience

Senior Director, Weststar Energy, Kansas

Tom was responsible for all transmission assets, including risk and asset management, and establishing department policy, direction, goals, and prioritization. Responsibilities included performance measurements, and participation in Southwest Power Pool and other regulatory and legislative activities. Engineering experience includes engineering of transmission lines and substation. Operational experience include keeping over three thousand miles of transmission lines and over nine hundred and fifty substations safe, reliable, efficient, and in service.

During this time projects included the following projects:

- Engineering Dept. Manager or Design Engineer - 6 transmission lines, 345kV totaling 246 miles
- Engineering Dept. Manager or Design Engineer - 4 transmission lines, 230kV totaling 85 miles
- Engineering Dept. Manager or Design Engineer - 3 transmission lines, 161kV totaling 29 miles
- Engineering Dept. Manager or Design Engineer - 34 transmission lines, 115 kV totaling 284 miles
- Engineering Dept. Manager or Design Engineer - 18 new substations, 115kV thru 345kV
- Engineering Dept. Manager or Design Engineer - 20 existing substation additions, 115kV thru 345kV
- Engineering Dept. Manager or Design Engineer - 44 existing substations, and add/replace transformer
- Engineering Dept. Manager or Design Engineer - 77 existing substations, upgrade switching and SCADA

Recent Presentations & Publications

"Emerging Issues Panel – FERC 1000" EEI Transmission Fall Conference, Charleston, SC. October 2013

"Emerging Issues Panel" EEI Transmission Spring & Fall Conferences, 2002 to 2014.



Clark D Harrison, PE Sr. Manager, Business Development

Education

- B.S. in Mechanical Engineering, Pennsylvania State University, University Park, PA

Years of Experience

40+

Professional Credentials

- Registered Professional Engineer in Ohio and Pennsylvania
- Currently serving 11th consecutive appointment to the National Coal Council by various U.S. Secretaries of Energy

Distinguishing Qualifications

- Technical experience in the energy field includes coal process engineering, environmental permitting, coal procurement, ash marketing, power plant operations and resource evaluation.
- Published more than 2 dozen papers about coal quality effects on power generation, coal cleaning to reduce sulphur dioxide emissions, synthetic fuels, alternative fuels, evaluations of coal cleaning equipment, and assessments of the electric utility industry's future.
- Directed 5 projects to repurpose process facilities, including a biomass/coal pelletizing facility, biodiesel production plant, biomass-fired power plant, hardwood flooring prefinishing plant, and wood pellet fuel manufacturing process.
- Pelletized fuel made from coal and various plastic materials, and the removal of mercury from coal.

Nationally recognized expert in the power generation industry with experience in developing and building businesses. 40-year history of understanding complex problems and thinking outside the box to create practical and economic solutions. Until August 2010, led 2 fuels technology companies, including 3 production plants and 40 employees, with \$10 million in annual sales and virtually no employee turnover. These companies and their predecessor R&D program had a 29-year record of success in both coal-based and renewable energy, including feedstock procurement, fuel production, power generation and byproduct processing, utilization and disposal.

Relevant Experience

CH2M HILL

Business Development Manager, based in Pittsburgh PA with responsibility for the Northeast US.

Sales of technical services for the Power Business Group to electric utilities, non-regulated power generators and industrial customers that produce electricity from fossil fuels or renewables.

Management of marketing, proposals and contract negotiations throughout the Northeast US.

ENERGY PROS, LLC

Managing Member and Principal, consulting assignments at Energy Pros included marketing assistance to a developer of distributed biomass-fired power plants, sales support to a chemical company that sells freeze conditioning and dust control products, technical services to the owner of a technology for remediating waste sites of manufactured gas plants and managing the sale of a biodiesel production facility.

CQ, INC.

President and CEO, applied extensive knowledge of Section 29 IRS Tax Code to develop 3 projects that earned \$25 million for CQ Inc. and \$190 million in tax credits for project investors. Operated 7 synthetic fuel plants that provided \$600 million in tax credits to facility owners from 1998 to 2007.

Acquired and operated a 14 MW biomass-fired power plant in Telogia, Florida, the first plant of its kind ever built in the U.S. CQ Inc. improved and refurbished the entire fuel receiving and handling system to accommodate a wider suite of alternative fuels, increasing plant availability without raising production costs.

Diversified CQ Inc. by acquiring 2 wood pellet manufacturing plants (operating at over 90% availability); building a wood-finishing facility (a



Distinguishing Qualifications (Continued)

- Congressional hearings about clean coal technologies, the importance of electricity to the U.S. economy, methods for reducing emissions from coal-fired power plants, and EPRI's R&D program.
- Represented U.S. AID on energy missions to Kyrgyzstan to advise Kyrgyz government on using domestic resources of energy; accompanied U.S. DOE on its mission to advise the South African government on fuel technologies to heat and cook in makeshift living quarters.
- For the National Coal Council, authored sections of various reports, including "Retrofit Programs Increase Generation Efficiency and Decrease CO₂ Emissions" and "Low-Carbon Coal: Meeting U.S. Energy, Employment and CO₂ Emission Goals with 21st Century Technologies."
- Collaborated with U.S. DOE, NYSERDA, ESEERCO, PEDA and other government and utility groups to plan R&D programs, share resources, and transfer technology.

\$2.5 million annual business); developing plans for a solar farm; and evaluating technologies for producing biofuels from algae.

Entered the biodiesel business by purchasing a plant rather than building one, saving CQ Inc. over \$1 million in capital costs and 9 months of time. Negotiated with the former owners to finance 75% of the purchase price. The plant consistently produced biodiesel fuel that met ASTM quality specifications and its capacity increased fourfold. Funded plant build out with grants from the Commonwealth of PA.

Advocated the first commercial use of cavitations (advanced ultrasonic) technology in CQ Inc.'s biodiesel plant, converting from a batch to a more productive continuous process and saving \$2 million by being the first purchaser of the technology. Led the diversification of feedstock to reduce costs by 25% and increase production capacity to 5 million gallons a year.

Career Highlights

Past president of the Coal Preparation Society of America and was one of the founders; served on the board of directors for the National Ash Association, served on advisory boards of the Coal Division of the Society of Mining Engineers. Proposal reviewer for the U.S. DOE's University Coal Research Program and for the Illinois Clean Coal Institute's annual project solicitation. U.S. AID and DOE expert on fact-finding missions to Kyrgyzstan and South Africa, respectively.

For EPRI and DOE, managed the largest project ever undertaken to correlate coal quality to power plant performance and emissions. The \$24-million effort (which included the 2 major U.S. boiler manufacturers, about a dozen subcontractors and 5 host utilities) produced the Coal Quality Expert software, presently supported and marketed by EPRI as VISTA.

Successfully redeployed the non-profit EPRI/DOE program into a for-profit company that, spanning 20 years, patented clean-fuel technologies and owned and operated 7 synthetic fuel plants, the first biomass-fired power plant in the U.S. and a wood pellet fuel production facility.

Overcame challenging obstacles to purchase 80% of EPRI's stock in CQ Inc., gaining more autonomy to realize the company's business development strategy.

Commercialized CQ Inc.'s patented E-Fuel® technology. CQ Inc. owned and operated the first commercial coal-biomass pellet (E-Fuel) production plant. Led the company's successful effort to finance the entire \$3.5 million capital cost for this first-of-a-kind alternative fuel plant.

Leslie V Mathine
Senior Project Manager

Education

B.S., Civil Engineering, University of Nebraska

Professional Credentials

- Professional Engineer: Arizona, Hawaii, California, Colorado

Distinguishing Qualifications

- Over 39 years of engineering and project management experience in the power industry, providing engineering scope, schedule, and budget performance on complex power plant projects.
- Project manager/Director for various design/build combustion turbine facilities in Nevada, California, Hawaii, and Oregon utilizing aero-derivative and frame technologies.

Selected Experience

MAUI ELECTRIC COMPANY – Kihei, HI, Project Manager for the development of low load operation for an existing LM2500 combined cycle units for low following of renewable energy on the system.

MAUI ELECTRIC COMPANY – Kihei, HI, Project Manager for the design, procurement support, and installation of diverter dampers on an existing LM2500 combined cycle unit in Maui, HI.

Mariposa Energy Project, Mariposa Energy, LLC, California, Project Manager The project is an EPC project for the installation of four (4) LM6000PC units in simple cycle configuration at a green field site. CH2M HILL is providing full EPC scope including detailed design, BOP equipment procurement, construction, and startup of the facility. Assisted in the permitting phase of the project with the California Energy Commission.

TURLOCK IRRIGATION DISTRICT ALMOND 2 POWER PLANT PROJECT – Ceres, California

Senior Project Manager The project involved the installation of three (3) LM6000PG units in simple cycle configuration at an existing site. CH2M HILL provided permitting support, detailed design, and procurement support for the three units.

Eklutna Generating Station, Matanuska Electric Association, Alaska, Project Manager

The project involved the development of an “Open Book” EPC contract for the installation of eight (8) Wartsila reciprocating engines at a green field site. The engines were to be designed for dual fuel application and extreme cold conditions.

Chesterfield Unit 3-5 Scrubber Project, Dominion Energy, Virginia, Project Manager The project involves the installation of a wet scrubber system for Units 3, 4 and 5 at the Chesterfield Station. Dominion using a Siemens/Wheelabrator for a scrubber vessel identical to the Unit 6 scrubber vessel. CH2M is providing engineering services including balance of plant design and

Leslie V Mathine (continued)

owner's engineer services. Included in the engineering services are analysis of the waterfront/land interface, design of foundations, design of structural steel and ductwork, relocation of utilities, installation of new utilities and electrical and mechanical systems design.

Tracy Combined Cycle Power Plant, Sierra Pacific Power Company, Nevada, Project Director The Tracy Combined Cycle Power Plant consists of engineering, procurement, construction and commissioning of a combined cycle power block producing a nominal 514 MW. The Tracy addition is a two on one combined cycle configuration utilizing two (2) GE F-class advanced combustion turbine generators (CTG) with inlet air evaporative coolers, two (2) heat recovery steam generators (HRSG's) with duct burners, and one (1) GE D11 steam turbine generator (STG). The steam turbine exhaust is condensed in an air-cooled condenser. Water for the project was drawn from the Truckee River and chemically treated to produce project water for cooling the three generators and evaporative cooling requirements for the combustion turbines. Construction of the Tracy Addition was at an existing plant site owned by Sierra Pacific Power Company (Owner).

Walnut Energy Center Combine-Cycle Project, Turlock Irrigation District, California. Project Manager. The 250 MW combined cycle facility in Turlock, California consisted of two GE 7EA combustion turbines, three pressure reheat Heat Recovery Steam Generators (HRSG) and a 100 MW steam turbine. Water for the project was obtained from the Turlock Waste Water Treatment Plant and chemically treated to make demineralized water for the steam turbine and for cooling tower makeup. Mr. Mathine was assigned as Owner's Engineer involved in reviewing the detailed design for the project along with duties as Chief Building Official for the California Energy Commission.

Coyote Springs 2 Combined-Cycle Project, Avista Utilities. Project Manager for completion of a 280-MW combined-cycle facility in Boardman, Oregon. The project consists of an EPC contract for a GE 7FA combustion turbine, three pressure reheat Heat Recovery Steam Generators (HRSG) with duct burners, and a 115-MW Alstom steam turbine. Assignment involved EPC responsibility for overall procurement, engineering, and construction for the facility.

Blake Evans

PIPELINE ENGINEER

Blake Evans is a pipeline engineer with seven years of experience in the oil and gas industry including engineering, design, procurement, project management, and construction activities. He has had project engineering responsibilities for EPCM and engineering services contracts with an excellent track record of developing and meeting all budget and schedule criteria. Blake's project experience includes upstream and midstream pipelines, pigging facilities, gas storage systems, metering facilities, compression facilities, water transfer, and water injection facilities.

DISTINGUISHING QUALIFICATIONS

Education

B.S., Mechanical Engineering, University of Colorado,
Denver, Denver, Colorado

Certifications

EIT – Colorado

SELECTED EXPERIENCE

TransCanada Pipelines Limited—New Brunswick, Canada

Project Engineer for FEED and NEB application support for 410-kilometer NPS 42 crude oil pipeline. Responsible for project cost estimating, schedule control, budget control and coordination of front end engineering, design and TIC estimating services. Coordinated work efforts between internal pipeline FEED team and external survey, land, field routing, and environmental teams. Developed route change management procedure for internal and external team members utilizing mobile field routing technology and Web Map interface for route change reviews and approval.

Xcel Energy—Colorado, Minnesota, South Dakota, Texas, USA

Provided senior pipeline support to project team tasked with validation of MAOP for approximately 2,700 miles of Xcel's gas transmission and distribution system to comply with recent PHMSA regulations. Supported Pipeline Data Project effort to populate Xcel's Smallworld GIS that involved scanning legacy paper documentation, mining

documents for relevant data, adjudicating identified data, and engineering reviews of final data to be uploaded to their database. Assisted Xcel with forming project assumptions and unknown attributes guide when objects in the system were known to exist but no traceable or verifiable legacy documentation was available. Assisted excel with data analysis and up front remediation planning for pipeline segments found to be out of compliance with PHMSA regulations.

Marathon Oil Corporation—Eagle Ford Shale, Texas, USA

As Project Manager/Project Engineer for an Oil and Gas Gathering project, responsible for project cost estimating for engineering, design, inspection, and construction management services. Developed design basis, pipe specifications, hydraulic models, alignment sheets, detailed crossing drawings, piping tie-in drawings, and complete project bills of material. Completed non-metallic pipe study and reference table comparing multiple brands of composite pipe products to carbon steel for use by client's operations personnel. Provided inspection and construction management support for fast-paced nature of E&P gathering system development. Coordinated route approval and supported permitting needs for client's land agents

Cadeville Gas Storage—Ouachita Parish, Louisiana, USA

Project Engineer for a Depleted Reservoir Gas Storage project that involved pipeline engineering and design for a 500 MMcfd FERC 7C depleted reservoir gas storage

system. Responsibilities included line sizing calculations, pipe specifications, alignment sheets, detailed crossing drawings, injection/withdrawal piping assemblies, custody transfer metering assemblies, and construction/fabrication bid packages.

D’Lo Gas Storage—D’Lo, Mississippi, USA

Project Engineer for Salt Dome Gas Storage project in Simpson and Rankin Counties, Mississippi that required front-end engineering and design to meet FERC 7C filing for the salt dome gas storage system. Responsibilities included multiple route map iterations, front-end alignment sheet development, preliminary plot plans of interconnect facilities and source water/brine disposal wells, right-of-way (ROW) layout drawings, and construction sequence drawings

Williams Midstream—Piceance Basin, Colorado, USA

Project Engineer for a Natural Gas Gathering project that entailed pipeline engineering and design for large-scale gas gathering system. Responsibilities included pipe specifications, construction/fabrication bid packages, on-site bid showing, and alignment sheets/piping tie-in assemblies for high-pressure gas, low-pressure gas, water injection, and water disposal pipelines

Saddle Butte Pipeline LLC—Bakken Shale, North Dakota, USA

Project Engineer for an Oil and Gas Gathering project that consisted of pipeline engineering and design for automated spherical pigging system of multi diameter gathering system. Responsibilities included researching and designing unique automated spherical pig launchers and receivers to accommodate client’s specific needs for non-industry standard pigging system.

Antero Resources—West Virginia and Pennsylvania, USA

Project Engineer for a Natural Gas Gathering project in Marcellus Shale, West Virginia and Pennsylvania. Held additional position of Pipeline Project Engineer for the construction of various natural gas pipelines and facilities. Responsibilities included project cost estimating, project scheduling, preparation of contractor

bid packages, pipeline route selection, pipeline sizing, development of construction drawings, working with third parties in obtaining road crossing and environmental permits, procuring materials, developing hydro-test plans and field engineering support

Bully Camp Gas Storage—Lafourche Parish, Louisiana, USA

Project Engineer for a Salt Dome Gas Storage project that included front-end engineering and design required to meet FERC 7C filing for salt dome gas storage facility. Included cost estimating, project scheduling, line sizing, pipeline buoyancy design and development of alignment sheets, and meter station piping drawings.

AGL-Golden Triangle Storage—Beaumont, Texas, USA

Project Engineer for a Salt Dome Gas Storage project that included pipeline engineering and design for large-scale FERC 7C salt dome gas storage system. Responsibilities included pipe specifications, alignment sheets, detailed crossing drawings, construction and fabrication bid packages and working closely with survey for land plat development. Project required development of unique twin header system to five interconnects requiring simultaneous delivery and receipt without service interruption to any individual interconnect.

Xcel Energy—Boulder and Larimer Counties, Colorado, USA

As Pipeline Project Engineer for a Pipeline Integrity Management project, was responsible for developing and implementing integrity management programs for multiple pipelines throughout client’s gas transmission/distribution system. Responsibilities included developing hydro-test or in-line inspection test plans together with required piping modifications and pipe specifications while taking into account minimum down time and future operation of pipeline systems. Oversaw onsite piping modifications and test plan implementation

Kinder Morgan—Weld County, Colorado, USA

Pipeline Project Engineer for 42-mile, FERC 7C natural gas transmission line. Responsibilities included project

engineering and design, field survey support, property plats, fabrication bid packages, material procurement, and construction management support for pipeline and town border stations.