BROWN, WILLIAMS, MOORHEAD & QUINN, INC.
ENERGY CONSULTANTS

CURRICULUM VITAE

NAME

Kevin H. Lange, P.E.

BUSINESS ADDRESS

Brown, Williams, Moorhead & Quinn, Inc.
P.O. Box 10
Sunderland, MD 20689-0010

PRESENT POSITION

Vice President – Terminal Decommissioning and Negative Salvage

EDUCATION

The Catholic University of America – Washington, DC
Bachelor of Civil Engineering

Certifications

Professional Engineer, District of Columbia
American Road & Transportation Builders Association- Young Executive Development Program
Design-Build Done Right- DBIA
WSSC Sediment Erosion Control Certification Maryland State Highway Traffic Control Manager OSHA 30 Card
OSHA Confined Space Certification
NUCA – National Utility Contractors Association, DC Chapter Treasurer HCSS-HeavyBid / HeavyJob Software
RSMeans- Facilities Construction Estimating
MicroStation CADD Software
GEOPAK- Highway design/Modelling Software

NATURE OF WORK PERFORMED WITH FIRM

Mr. Lange joined BWMQ in November 2022 as Vice President.

Mr. Lange is a seasoned Professional Engineer, with over thirty-three years of utility design, inspection and construction, including storm water management, project management, highway design and construction management, utility and roadway estimating experience both in the U.S. and overseas.

Mr. Lange now leads the terminal decommissioning and negative salvage practice at BWMQ, including the analysis of terminal decommissioning costs (TDC), negative salvage and general pipeline operations. Utilizing both his engineering and construction experience he has developed estimating cost methodologies which are inclusive of regulatory compliance, decommissioning activities and overall management from pre-construction through project completion for future retirement obligations.

Mr. Lange has provided expert testimony to the Federal Energy Regulatory Commission (FERC) in which he has defended his TDC costs as part of rate case proceedings.

PREVIOUS EMPLOYMENT

Grade Line Engineering & Construction, LLC – Washington, DC
Immediately prior to joining BWMQ, Mr. Lange served as Vice President / Project Director for Grade Line Engineering & Construction, LLC. His responsibilities included all day-to- day operations of construction activities, including both project management and engineering services for utility line abandonments and installations of new water, sanitary and bio retentions, as well as roadway improvements.

Representative Projects Include:

1. DDOT Materials Lab- Installation of utility pipelines for water, sanitary and bio retentions
2. Moxy Hotel- Installation of utility pipelines for water, sanitary and storm
3. Utility Improvements for DC United Soccer Stadium
4. Highland Dwellings – Abandonments and installation of existing and new utility pipelines for water, sanitary, bio retention systems
5. South Capitol Street Near Term Improvements- This Project is part of the Roadway improvements for the new Washington Nationals Stadium. This project is also one of the first Design-Build projects for the District Department of Transportation.

Parsons Transportation Group - Washington, DC
Deputy Project Manager - Roadway Design/Build (Wards 3&4)

Mr. Lange served as Deputy Project Manager for a major roadway design/build project for the District of Columbia Department of Transportation to design and reconstruct approximately 108 local roadways. Responsibilities included coordination with utility companies and sub-consultants, as well as leading a team of engineers and overseeing all aspects of design as well as monitoring implementation during construction.

Deputy Project Manager - DC Roadway Upgrades (Wards 7&8)

Project included design for roadway construction, resurfacing and upgrading of selected streets in Ward 7 and Ward 8 in the District of Columbia, including the assessment for utility improvements and roadway upgrades.

Senior Construction Manager – DC Department of Transportation (DDOT

Mr. Lange served as Senior Construction Manager/Inspector for various roadway/ infrastructure projects for the District of Columbia Department of Transportation.

Projects Included:

- **Highway and Roadway Infrastructure**
  - – New roadway construction projects
  - – Roadway rehabilitation and reconstruction
- **Bridge Infrastructure**
  - – Rehabilitation and reconstruction of major structural assets
  - – Inspection of concrete demolition, forming, placement, curing, and structural repairs
- **Utility Infrastructure (Public and Private)**
  - – Removal, relocation, protection, and installation of underground utilities including:
    - o Natural gas distribution lines
    - o Water mains
    - o Sanitary and storm sewer systems
    - o Coordinating utility work within active construction corridors
    - o Verifying compliance with plans, specifications, and safety requirements during installation and relocation activities

Parsons Transportation Group – Dubai, U.A.E
Project Manager/ Senior Civil Highway Engineer / Senior Drainage Design Engineer

Section Leader for Improvements to Sheikh Zayed Road, which involved a complete redesign of four existing interchanges along the main highway connecting the Emirates of Abu-Dhabi and Dubai. Designed cost effective utility corridors which included gas, communication, electric, water and sewer main lines and laterals.

Senior Highway Design Engineer for the Dubai International Airport Roads and Parking. Responsible for developing preliminary geometric design for proposed access roads, tunnel, and flyover. Through the use of Geopak, cross sections were created to obtain preliminary earthworks estimates. Responsibilities also included hydraulic analysis and drainage design for entire project. Utilized current hydrologic and hydraulic principles to develop criteria for spacing gullies, sizing pipes and determining pipe slopes to convey storm water to designated pump stations. Assisted in design of pump station to lift storm water from sump in proposed tunnel.

Senior Highway Design Engineer for Dubai Ring Road. Developed preliminary roadway profiles and performed current hydrologic computations, to generate results for surface flow, storage capacity, and retention time for the purpose of

locating and sizing crossings to convey stormwater from high ground line, under highway to low ground line. Also, performed seepage calculations and preliminary roadway drainage. Developed stormwater drainage report to be submitted to client for approval. Responsible for coordinating with Municipality to assure latest standards were adopted and incorporated. Performed complete drainage design including ditch profile, gully – soak away locations and median collection and discharge points. Completed all calculations required for design. Mr. Lange was also responsible for overseeing construction of drainage system including pipelines at client's request.

#	JURISDICTIIO	CASE OR DOCKET NO.	UTILITY/ ORGANIZATION INITIATING PROCEEDING	POSITION	SUBJECT MATTER
1	FERC	RP23-929	National Fuel Gas Supply Corporation	Witness	Terminal Decommissioning Study
2	FERC	RP23-930	Saltville Gas Storage Company LLC	Witness	Terminal Decommissioning Study
3	FERC	RP23-1099	Gas Transmission Northwest LLC	Witness	Terminal Decommissioning Study
4	FERC	RP24-164	Carolina Gas Transmission LLC	Witness	Terminal Decommissioning Study
5	FERC	RP24-287	Northern Border Pipeline Company	Witness	Terminal Decommissioning Study
6	FERC	RP24-744	Southern Natural Gas Company LLC	Witness	Terminal Decommissioning Study
7	FERC	RP24-780	Maritimes & Northeast Pipeline, L.L.C.	Witness	Terminal Decommissioning Study
8	FERC	RP24-781	Algonquin Gas Transmission, LLC	Witness	Terminal Decommissioning Study
9	FERC	RP24-1035	Transcontinental Gas Pipe Line Company, LLC	Witness	Terminal Decommissioning Study
10	FERC	RP24-1103	Columbia Gas Transmission, LLC	Witness	Terminal Decommissioning Study
11	FERC	RP24-1106	Adelphia Gateway, LLC	Witness	Terminal Decommissioning Study
12	FERC	RP25-844	East Tennessee Natural Gas, LLC	Witness	Terminal Decommissioning Study
13	FERC	RP25-858	ANR Pipeline Company	Witness	Terminal Decommissioning Study
14	FERC	RP25-855	Great Lakes Gas Transmission LP	Witness	Terminal Decommissioning Study
15	FERC	RP25-936	Vector Pipeline L.P.	Witness	Terminal Decommissioning Study
16	FERC	RP26-257	Alliance Pipeline L.P.	Witness	Terminal Decommissioning Study
17	FERC	RP26-339	Trailblazer Pipeline Company LLC	Witness	Terminal Decommissioning Study
18	FERC	RP26-797	National Fuel Gas Supply Corporation	Witness	Terminal Decommissioning Study
19	FERC	RP26-802	Southern Star Central Gas Pipeline, Inc.	Witness	Terminal Decommissioning Study