Pre-filed Direct Testimony of
Scott E. Newland

COMMONWEALTH OF MASSACHUSETTS
ENERGY FACILITIES SITING BOARD

Western Massachusetts Electric Company	)	**EFSB 08-2/D.P.U. 08-105/D.P.U. 08-106**

PRE-FILED DIRECT TESTIMONY OF SCOTT E. NEWLAND

Q. Please state your name, position and business address.

A. My name is Scott E. Newland. I am employed by Burns & McDonnell Engineering Company, Inc. ("Burns & McDonnell") as a Project Manager in the Transmission & Distribution Division. My business address is 9400 Ward Parkway, Kansas City, MO 64114. Currently, I am the Burns & McDonnell Program Manager for the New England East-West Solution ("NEEWS") projects. NEEWS is a group of four transmission projects in southern New England being planned cooperatively by Independent System Operator-New England, Northeast Utilities, and National Grid, USA. One of these projects is the Greater Springfield Reliability Project ("GSRP or "the Project"). In my capacity as Program Manager for NEEWS, my responsibilities include the management of safety, siting and permitting, detailed design, cost control, schedule control, community relations, land acquisition, filed investigations, procurement, and construction inspection for the parts of the NEEWS projects to be constructed by The Connecticut Light & Power ("CL&P") and Western Massachusetts Electric Company ("WMECO").

Q. On whose behalf are you testifying?

A. I am testifying on behalf of WMECO in this proceeding.

Q. Please summarize your professional and educational background.

A. I graduated from the University of Nebraska-Lincoln in 1999 with a Bachelor of Science in Civil Engineering. I have been employed by Burns & McDonnell since June 1999. I have

been the project manager and lead engineer on numerous engineering procurement and construction projects and other program management projects where my responsibilities have included staffing, cost control, scheduling, detailed design, and public relations. A copy of my resume is provided herewith as Exhibit WMECO-SEN-2.

Q. Please identify any regulatory proceedings in which you have testified.

A. I testified in the Connecticut Department of Environmental Protection hearing in 2006 for the Middletown to Norwalk Project regarding underground transmission crossings within southwest Connecticut. I provided expert testimony regarding the technical feasibility of the different crossing techniques.

Q. What is your involvement and responsibility with respect to WMECO's proposed Greater Springfield Reliability Project?

A. WMECO commissioned Burns & McDonnell to be the outside program manager for the Project. My responsibilities as Program Manager on this Project include design engineering, permitting and siting, evaluating route alternatives, project estimating, client interface, evaluating bids, and construction oversight. In addition, with this responsibility, I was involved in all aspects of the preparation of the three petitions filed by WMECO in this proceeding. Those petitions are the Petition for Approval to Construct 345-kV Transmission Lines, Re-Build 115-kV Transmission Lines, and Build and Upgrade Ancillary Facilities (the "Siting Board Petition"), the Petition of Western Massachusetts Electric Company for Exemptions from the Zoning By-Laws and Ordinances for the Greater Springfield Reliability Project ("Zoning Exemption Petition"), and the Petition of Western Massachusetts Electric Company for Approval to Construct and Operate Transmission Lines and Ancillary Facilities Pursuant to G.L. c. 164, § 72 and Request for Consolidation ("Section 72 Petition"), each filed by WMECO in this proceeding on October 27, 2009.

Q. For what portions of WMECO's Petitions are you responsible?

A. Along with David Cameron of AECOM, and Timothy Barton of Burns & McDonnell, I am responsible for portions of the following sections of the Siting Board Petition:

- Section 5, Comparison of Proposed 345-kV Facilities Along Preferred Northern and Noticed-Alternative Southern Routes
- Section 7, Comparison of Overhead and Underground 115-kV Facilities

I am also responsible for various information request responses in this proceeding which cover the same topics, all of which are listed with my name, alone or with another, as the responsible witness.

Q. Were the materials referenced above prepared by you or under your supervision and control?

A. Yes.

Q. Are there any revisions, updates or corrections to those matters for which you are responsible?

A. No, not at this time.

Q. Does this complete your testimony?

A. Yes, it does.

Scott E. Newland, P.E.

Expertise
- Program Management
- Project Management
- Underground Transmission Design
- Structural Steel Design
- Substation Foundation Design
- Site Development

Education
- B.S., Civil Engineering, University of Nebraska-Lincoln, 1999

Organizations
- American Society of Civil Engineering

Registration
- Professional Engineer – Kansas and Connecticut

Total Years of Experience
11

Years With Burns & McDonnell
10

Start Date
June 1999

Mr. Newland is a Project Manager in the Transmission & Distribution Division. He is currently the Program Manager on the New England East West Solution Project in Massachusetts and Connecticut for Northeast Utilities. The project consists of 100+ miles of 345-kV overhead transmission, 45+ miles of 115-kV overhead transmission and approximately 17 substation upgrades. He has been the project manager and lead engineer on numerous EPC projects and other program management projects.

Over the course of his career, Mr. Newland has developed the ability to manage large-scale projects. His responsibilities include staffing, cost control, scheduling, detailed design and public relations. As a Program Manager, Mr. Newland's responsibilities include the management of safety, siting and permitting, detailed design, cost control, schedule control, community relations, land acquisition, field investigations, procurement and construction inspection.

Specific projects Mr. Newland has worked on at Burns & McDonnell include:

New England East-West Solution (NEEWS), Northeast Utilities Service Company
Connecticut and Massachusetts, 2007-Present

Mr. Newland is the Program Manager on the New England East West Solution Project in Massachusetts and Connecticut for Northeast Utilities. The project consists of 100+ miles of 345-kV overhead transmission, 45+ miles of 115-kV overhead transmission and approximately 17 substation upgrades. His responsibilities as a Program Manager include the management of safety, siting and permitting, detailed design, cost control, schedule control, community relations, land acquisition, field investigations, procurement and construction inspection. The NEEWS project is a multibillion -dollar project with a construction window of approximately 2.5 years.

Middletown to Norwalk 345-kV Transmission Project, Northeast Utilities Service Company
Southwest Connecticut, 2005-2007

Mr. Newland was the Project Manager and Engineering Manager for the 345-kV XLPE underground transmission portion of the Middletown to Norwalk project. Burns & McDonnell is the Program Manager on the project with full responsibilities of the detailed design, procurement, public relations, land acquisition, field investigations and construction management. The project is located in Southwest Connecticut primarily along State Route 1 and includes four utility bridges across rivers, two horizontal directional drills under rivers and two horizontal borings under two railroad crossings. The project consists of 24 miles of 345-kV XLPE and 1 mile of 115-kV XLPE.

69-kV Underground Transmission Project, Orlando Utilities Commission
St. Cloud, Florida, 2004-2006

Mr. Newland was the lead engineer for the underground transmission portion of an EPC project for Orlando Utilities Commission. The project is a single circuit 69kV XLPE line located in downtown St. Cloud, FL. The design includes a jack & bore and a canal

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crossing. Mr. Newland is responsible for the overall design, procurement of the cable and accessories and construction support.

230-kV Underground Transmission Project, Silicon Valley Power, CA
Santa Clara, California, 2003-2004
Mr. Newland has been responsible for the design and management of the underground transmission portion of the EPC project for Silicon Valley Power. The project is a double circuit 230-kV XLPE underground transmission line located in San Jose and Santa Clara. The underground line is located in city streets and includes three horizontal borings. The bores cross a major highway in San Jose, the Guadalupe River and a major arterial street. Mr. Newland is responsible for the detailed design, procurement, permitting and construction support.

Substation Upgrade, Dominion Power
Eastern, Virginia, 2003-2004
Lead Civil/Structural Engineer responsible for all civil engineering issues for 230-kV design-build substation upgrade. Responsibilities of the substation upgrades consist of oil containment design, foundation design, permitting and procurement support.

Cayetano Substation, Pacific Gas & Electric
Oakland, California, 2002-2003
Lead Civil/Structural Engineer responsible for all civil engineering issues for 230-kV design-build substation. The substation is a low profile substation with extensive landscaping and eight foot concrete wall.

KUB Downtown Substation, Knoxville Utilities Board
Knoxville, Tennessee, 2000
Lead civil/structural engineer for the EPC substation located in Knoxville. Responsibilities included design of slabs on grade, spread footing foundations, and an oil containment system for a 66-13.8-kV substation connecting to the exiting downtown Knoxville network.

138-kV Brazos Substation, Brazos Electric Cooperative
Texas, 2000
Lead civil/structural engineer for a 138-kV capacitor bank addition designed/build project. Designed slab-on-grade and spread footing foundations for equipment supports. Also coordinated the civil/structural construction phase of the project.

138-kV Switchyard, Wisconsin Power and Light
Wisconsin, 2000
Lead civil/structural engineer for a new 138-kV switchyard. Responsibilities include supervision, coordination and quality control of structure and foundation design.

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161-kV Substation, General Electric Company
Decatur, Alabama, 2000
Lead civil/structural engineer for a new161-kV substation for Trico Steel in Decatur, Alabama. Designed tubular steel structures, foundations and an oil containment system In order to meet scheduled outages the design was completed in 4 weeks. Responsible for coordination and design of all civil/structural aspects of the projects.

Ash Substation, San Diego Gas & Electric
San Diego, California, 1999
Lead civil/structural engineer for the seismic structural analysis of structures in Ash Substation and Rose Canyon Substation. Also redesigned structures due to seismic failure.