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APPENDICES

APPENDIX 4-1:	PROJECT TEAM RESUMES

SECTION 4. TECHNICAL ABILITY

4.A Bangor Hydro-Electric Company

4.A.1 Prior Experience

Bangor Hydro-Electric Company (BHE) has an extensive history of building, owning and operating electric transmission lines and ancillary equipment. BHE is the second largest electric utility in Maine. It was incorporated in 1924, the result of the merger of several smaller regional companies. BHE serves a population of approximately 110,000 in an area encompassing 5,275 square miles in eastern and east coastal Maine. The Company is a member of the New England Power Pool (NEPOOL), and as such is interconnected with other New England utilities to the south and with New Brunswick Power Transmission Corporation to the north.

BHE has constructed and maintains many miles of distribution and transmission lines and associated substation facilities within its service territory. The Company has obtained approval from the Department of Environmental Protection for several similar transmission line projects (overhead electric utility lines). The most recent approvals pursuant to the Site Location of Development or Natural Resources Protection Acts were for lines from Orrington to Ellsworth, Veazie to Orrington, Chester to Millinocket and lines in Ellsworth and Hancock. Similar to the proposed project, these lines were also constructed to provide for system reliability and to meet existing and future requirements of BHE's customers.

4.B BHE Personnel

The engineering staff at BHE includes in-house professional engineers and other utility professionals. BHE will utilize many of its existing support facilities and trained personnel to operate and maintain the new facilities. These resources have been supplemented by the engineering and regulatory personnel from BHE's parent company Emera, Inc. (Emera) to assist with the design and permitting of the proposed Northeast Reliability Interconnect (NRI).

Resumes of the key BHE and Emera personnel involved in the design and permitting of the NRI are provided in Appendix 4-1.

In addition to BHE resources and personnel, Commonwealth Associates, Inc. (CAI), SGC Engineers, LLC (SGC), TRC Environmental Corporation (TRC), Devine, Tarbell & Associates (DTA), and William D. Countryman Environmental Assessment & Planning (WDC) have been actively involved in the siting, design, and environmental evaluations of the proposed transmission line and Orrington Substation modifications. Information describing their qualifications and areas of expertise are provided in the following sections. Resumes of key personnel involved in the NRI project from all three companies and representative resumes of important subcontractors to these companies are also provided in Appendix 4-1.

4.C CAI Experience and Personnel

CAI is the prime engineering contractor used for design of the NRI. CAI is an employee-owned and –managed firm specializing in energy services related to transmission and distribution line design, substation design, and the use of electricity. CAI's diverse staff of approximately 133 engineers and technicians has provided the worldwide electric energy industry one of the most experienced transmission and distribution resources available for the past 17 years. CAI projects include the design of new facilities as well as expansion and upgrade of existing facilities from 4.8 kilovolts (kV) to 765 kV. Their services include transmission line engineering, distribution engineering, fiber optic engineering, substation engineering, electrical systems studies and distribution field services. In addition to its broad range of electrical engineering capabilities, CAI has staff expertise in environmental sciences, licensing, surveying, right-of-way (ROW) acquisition and construction management. The corporate headquarters is located in Michigan with a regional office in the state of Washington.

4.D SGC Experience and Personnel

SGC is a full service survey, engineering and environmental services firm. SGC provides high quality consulting services through their offices in Westbrook and Orono, Maine. SGC has

evolved from a small survey engineering firm in 1999 to a company which provides engineering, environmental management services along with survey and geodetic services throughout Maine and New England.

4.E TRC Experience and Personnel

TRC is a multi-disciplinary, full service environmental consulting firm with over 35 years of experience in environmental management and energy development project assessment and permitting. TRC is one of the largest full service environmental consulting firms nationally. With a core competency strengthened by 2,200 environmental engineers, scientists and planners, TRC is a public corporation with over 128 offices located throughout the nation. TRC is a national leader in providing siting, licensing, and compliance services for energy transmission, distribution, and generation facilities, including extensive experience in the northeast and Maine. TRC staff has provided environmental permitting and compliance services at the federal, state, and local level for numerous electrical generation and transmission projects, hundreds of miles of natural gas pipelines, and other industrial and municipal clients. The key TRC personnel involved in the NRI are located at its South Portland office, with cultural resources expertise provided from its Ellsworth office and additional technical support provided from its Augusta office.

4.F DTA Experience and Personnel

The Portland, Maine office of DTA was originally a Maine-based engineering consulting firm doing business as Northrop, Devine & Tarbell, Inc. (ND&T) prior to undergoing three ownership changes between 1997 and 2004. DTA is well known in Maine for the broad scope of environmental studies and permitting that it has been involved with since 1988, particularly on large-scale energy and linear projects. Its mergers over the last several years have significantly broadened that capability. DTA's multi-disciplinary team offers capabilities to permit, manage the design, construct, operate and maintain a variety of energy facilities. The company has approximately 130 employees in 5 U.S. locations.

4.G WDC Experience and Personnel

WDC, founded in 1985, is located in Northfield, Vermont and specializes in comprehensive natural resource studies and environmental permitting. Specific expertise includes wetland delineation and evaluation, wetland mitigation, wildlife studies, and botanical resources, especially in regard to rare, threatened or endangered (RTE) species. WDC personnel have participated in permitting of many linear energy-related and transportation infrastructure projects in Maine, Vermont, New Hampshire, Massachusetts, and New York, including hundreds of miles of electric transmission line corridors, natural gas pipelines, and highways. WDC's Arthur Gilman led the effort to conduct rare plant surveys and develop mitigation for potential impacts to rare plant species and unique natural communities along the proposed ROW. Mr. Gilman has extensive experience in the identification of RTE plants and other significant botanical resources in Maine, and has made significant contributions to the study of RTE plant species throughout New England.

APPENDIX 4-1 PROJECT TEAM RESUMES

BANGOR HYDRO-ELECTRIC COMPANY AND EMERA

COMMONWEALTH ASSOCIATES, INC.

SGC ENGINEERS, LLC

TRC ENVIRONMENTAL CORPORATION

DEVINE, TARBELL & ASSOCIATES

W. D COUNTRYMAN ENVIRONMENTAL ASSESSMENT & PLANNING