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FORMAL REQUIREMENTS

A. PURPOSE

The Connecticut Light and Power Company (CL&P) is submitting this Application to the Connecticut Siting Council (“Council”) for the issuance of a Certificate of Environmental Compatibility and Public Need for the construction and operation of the Connecticut portion of the Interstate Reliability Project, consisting of new 345-kilovolt (“kV”) electric transmission lines and associated facilities between the Card Street Substation in the Town of Lebanon, New London County and an interconnection at the Connecticut / Rhode Island border in the Town of Thompson, Windham County, to a new 345-kV transmission line to be constructed and operated by National Grid, U.S.A. (National Grid). The Interstate Reliability Project, which also includes new 345-kV transmission facilities in Rhode Island and Massachusetts that will be developed by National Grid, is part of the New England East-West Solution (NEEWS), a comprehensive plan to improve electric transmission in southern New England.

B. STATUTORY AUTHORITY

The Connecticut Light and Power Company (CL&P) is applying to the Connecticut Siting Council pursuant to Connecticut General Statutes Section 16-50g et seq.

C. LEGAL NAME AND ADDRESS OF APPLICANT

The Connecticut Light and Power Company (CL&P), a specially-chartered Connecticut corporation:

Street Address:

107 Selden Street
Berlin, Connecticut 06037
Telephone: (860) 665-5000

Mailing Address:

P.O. Box 270
Hartford, CT 06141-0270

Internet Address:

Northeast Utilities
Transmission Web Site
www.transmission-nu.com

In filing and presenting this application, CL&P is acting through its agent, Northeast Utilities Service Company (NUSCO). CL&P and NUSCO are both wholly-owned subsidiaries of Northeast Utilities (NU). NUSCO performs services, including transmission planning and permitting services, for affiliated NU companies, including CL&P. NUSCO shares CL&P's address, listed above.

D. APPLICANT'S CONTACTS

Correspondence and other communications with regard to the application are to be addressed to, and notices, orders and other papers may be served upon the following:

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E. QUANTITY, FORM, AND FILING REQUIREMENTS

(Regs. Conn. State Agencies § 16-50j-12)

1. Pursuant to § 16-50j-12, CL&P is furnishing to the Council an original and 20 paper copies of the Application, as well as electronic copies of the Application.
2. CL&P requests administrative notice of the following Council docket records, generic hearings or statements prepared by the Council as a result of generic hearings, and other pertinent documents.

IEEE Guide for the Design, Construction, and Operation of Electric Power Substations for Community Acceptance and Environmental Compatibility, IEEE Std 1127-1998 (Reaffirmed 2009), December 5, 2009.

National Electrical Safety Code, ANSI C2-2012. August 1, 2011.

United States Code of Federal Regulations Title 33, Clean Water Act, Sections 401 and 404.

Connecticut General Statutes Section 16-243 and Sections 16-11-134, and 135 of the Regulations of Connecticut State Agencies.

2009-2018 Forecast Report of Capacity, Energy, Loads & Transmission (CELT). ISO New England Inc. System Planning, April 2009.

http://www.iso-ne.com/trans/celest/report/2009/2009_celt_report_final_20090415.pdf

2010-2019 Forecast Report of Capacity, Energy, Loads & Transmission (CELT). ISO New England Inc. System Planning, April 2010, Revised May 18, 2010. http://www.iso-ne.com/trans/celest/report/2010/2010_celt_report.pdf

2011-2020 Forecast Report of Capacity, Energy, Loads & Transmission (CELT). ISO New England Inc. System Planning, April 2011.

http://www.iso-ne.com/trans/celest/report/2011/2011_celt_rprt.pdf

2008 Regional System Plan. ISO New England Inc. October 16, 2008.

http://www.iso-ne.com/trans/rsp/2008/rsp08_final_101608_public_version.pdf

2009 Regional System Plan. ISO New England Inc. October 15, 2009.

http://www.iso-ne.com/trans/rsp/2009/rsp09_final.pdf

2010 Regional System Plan. ISO New England Inc. October 28, 2010.

http://www.iso-ne.com/trans/rsp/2010/rsp10_final.docx

2011 Regional System Plan. ISO New England Inc. October 21, 2011.

http://www.iso-ne.com/trans/rsp/2011/rsp11_final_102111.doc

ISO New England Planning Procedure 3, PP 3 - Reliability Standards for the New England Area Bulk Power Supply System. Effective Date: March 5, 2010.

http://www.iso-ne.com/rules_proceeds/isone_plan/pp3_r5.pdf

ISO New England Planning Procedure 5-3, PP5-3: Guidelines for Conducting and Evaluating Proposed Plan Application Analyses. Effective Date: March 5, 2010.
http://www.iso-ne.com/rules_proceeds/isone_plan/pp5_3_r3.pdf

ISO New England Inc. FERC Electric Tariff No. 3, Open Access Transmission Tariff, Section II – Attachment K – Regional System Planning Process. Effective: December 7, 2007.
http://www.iso-ne.com/committees/comm_wkgrps/othr/econ_stdy/mtrls/2008/mar262008/k_regional.pdf

ISO New England Operating Procedure No. 4 (OP-4), Action During a Capacity Deficiency. Effective Date: December 10, 2010, Revision No. 10.
http://www.iso-ne.com/rules_proceeds/operating/isone/op4/op4_rto_final.pdf

ISO New England Inc. Transmission, Markets and Services Tariff (formerly known as FERC Electric Tariff No. 3). October 1, 2011.
http://www.iso-ne.com/regulatory/tariff/sect_1/sect_i.pdf

ISO New England Inc. Transmission Operating Agreement among ISO New England Inc. and Participating Transmission Owners. February 1, 2005.
http://www.iso-ne.com/regulatory/toa/v1_er07-1289-000_toa_composite.pdf

ISO New England Inc. Planning the New England Transmission System for Reliable Operation. August 11, 2009.

Northeast Power Coordinating Council, Inc. Regional Reliability Reference Directory #1, Design and Operation of the Bulk Power System. December 1, 2009 (replaced Document A-2)
<https://www.npcc.org/Standards/Directories/Directory%201%20-%20Design%20and%20Operation%20of%20the%20Bulk%20Power%20System%20Full%20Member%20Approval%20December%202001,%202009%20GJD.pdf>

Northeast Power Coordinating Council, Inc. Regional Reliability Reference Directory #4, Bulk Power System Protection Criteria. December 1, 2009 (replaced Document A-5)
<https://www.npcc.org/Standards/Directories/Directory%204%20-%20System%20Protection%20Criteria%20Full%20Member%20Approval%20December%202001,%202009%20GJD.pdf>

Federal Energy Regulatory Commission, Florida Blackout, Order Approving Stipulation and Consent Agreement, Docket No. IN08-5-000, 129 FERC ¶ 61,016, Issued October 8, 2009.
<http://www.ferc.gov/EventCalendar/Files/20091008102212-IN08-5-0001.pdf>

Federal Energy Regulatory Commission, Docket No. OA08-58-000, ISO New England Inc., Order on Compliance Filing, 123 FERC ¶ 61, 161, Issued May 15, 2008. http://www.iso-ne.com/regulatory/ferc/orders/2008/may/oa08-58-000_5-15-05_attch_k_.pdf

ISO New England Inc. New England 2030 Power System Study, Report to the New England Governors --2009 Economic Study: Scenario Analysis of Renewable Resource Development. February 2010.
http://www.iso-ne.com/committees/comm_wkgrps/prtcpnts_comm/pac/reports/2010/economicstudyreportfinal_022610.pdf

Review of the Ten Year Forecast of Connecticut Electric Loads and Resources 2007-2016. Connecticut Siting Council, November 14, 2007.

http://www.ct.gov/csc/lib/csc/f2007/csc_forecast_07.pdf

2009 Forecast of Loads and Resources. Connecticut Siting Council. October 8, 2009.

[http://www.ct.gov/csc/lib/csc/f2009/f-2009final\[2\].pdf](http://www.ct.gov/csc/lib/csc/f2009/f-2009final[2].pdf)

2010/2011 Forecast of Loads and Resources. Connecticut Siting Council. September 8, 2011.

http://www.ct.gov/csc/lib/csc/pendingproceeds/regulations/report_text.pdf

The Connecticut Light and Power Company, 2009 Forecast of Loads and Resources for the Period 2009-2018. March 2, 2009. http://www.ct.gov/csc/lib/csc/f2009/filings/dof2009-20090302_nufiling.pdf

The Connecticut Light and Power Company, 2010 Forecast of Loads and Resources for the Period 2010-2019. March 1, 2010.

http://www.ct.gov/csc/lib/csc/pendingproceeds/forecast2010/forecastfilingsfrommarch2010/2010_clp_flr.pdf

The Connecticut Light and Power Company, 2011 Forecast of Loads and Resources for the Period 2011-2020. March 1, 2011.

http://www.ct.gov/csc/lib/csc/pendingproceeds/forecast_2011/f2011-clp.pdf

Department of Public Utility Control Docket (DPUC) 08-07-01, DPUC Review of 2008 Integrated Resource Plan, Decision, February 18, 2009.

<http://www.ct.gov/dpuc/site/default.asp>

Department of Public Utility Control Docket (DPUC) 09-05-02, DPUC Review of the 2009 Integrated Resource Plan, Decision, September 30, 2009.

<http://www.ct.gov/dpuc/site/default.asp>

Department of Public Utility Control Docket (DPUC) 10-02-07, DPUC Review of the 2010 Integrated Resource Plan, Decision, September 15, 2010.

<http://www.ct.gov/dpuc/site/default.asp>

Connecticut Siting Council Investigation into the Life Cycle Costs of Electric Transmission Lines. CT Siting Council. Prepared by Kema Inc. February 2007.

http://www.ct.gov/csc/lib/csc/life_cycle_rfp/43714q1.pdf and Comment Letter of R. Zaklukiewicz. April 13, 2007.

The New England Energy Alliance. Electricity Transmission Infrastructure Development in New England Value through Reliability, Economic and Environmental Benefits. Polestar Communications & Strategic Analysis. December 2007.

<http://www.newenglandenergyalliance.org/>

Federal Power Commission (now FERC). Electric Power Transmission and the Environment. Federal Power Commission Guidelines for the Protection of Natural, Historic, Scenic and Recreational Values in the Design, and Location of Rights-of-Way and Transmission Facilities. November 27, 1990.

North American Electric Reliability Corporation. Special Report: Electric Industry Concerns on the Reliability Impacts of Climate Change Initiatives. Version 1.1. November 12, 2008.

<http://www.nerc.com/files/2008-climate-initiatives-report.pdf>

Connecticut Siting Council Docket No. 370 - Consolidated proceeding pursuant to the Connecticut Energy Advisory Board (CEAB) Request for Proposal (RFP) process under C.G.S. §16a-7c. Original application: The Connecticut Light & Power Company application for Certificates of Environmental Compatibility and Public Need for the Connecticut Valley Electric Transmission Reliability Projects which consist of (1) The Connecticut portion of the Greater Springfield Reliability Project that traverses the municipalities of Bloomfield, East Granby, and Suffield, or potentially including an alternate portion that traverses the municipalities of Suffield and Enfield, terminating at the North Bloomfield Substation; and (2) the Manchester Substation to Meekville Junction Circuit Separation Project in Manchester, Connecticut. Competing application: NRG Energy, Inc. application pursuant to C.G.S. §16-50l(a)(3) for consideration of a 530 MW combined cycle generating plant in Meriden, Connecticut. Record.

Connecticut Siting Council Docket No. 370A-MR - The Connecticut Light & Power Company application for a Certificate of Environmental Compatibility and Public Need for the Manchester Substation to Meekville Junction Circuit Separation Project in Manchester, Connecticut. Record.

Connecticut Siting Council Docket No. 346 - White Paper on the Security of Siting Energy Facilities (Public Act 07-242, Section 8: October 8, 2009)

http://www.ct.gov/csc/lib/csc/pendingproceeds/docket_346/whiteppr_final_20091009114810.pdf

EMF, Electric and Magnetic Fields Associated with the Use of Electric Power. Questions and Answers. NIEHS June 2002.

<http://www.ct.gov/csc/niehs-emf>

Electric and Magnetic Fields Best Management Practices for the Construction of Electric Transmission Lines in Connecticut, Connecticut Siting Council, December 14, 2007.

<http://www.ct.gov/csc/emf-bmp>

IEEE Standard Procedures for Measurement of Power Frequency Electric and Magnetic Fields from AC Power Lines, IEEE Std 644-1994 (R2008).

World Health Organization. Electromagnetic Fields and Public Health, Exposure to Extremely Low Frequency Fields – Fact Sheet #322. June 2007.

<http://www.who.int/mediacentre/factsheets/fs322/en/index.html>

Electric and Magnetic Fields (EMF); Health Concerns – Fact Sheet. Connecticut Department of Public Health, Environmental Health Section Environmental & Occupational Health Assessment Program. Revised April 2008. [http://www.ct.gov/csc/lib/csc/publications/emf_fact_sheet_-_2008\[1\].pdf](http://www.ct.gov/csc/lib/csc/publications/emf_fact_sheet_-_2008[1].pdf)

3. This Application is presented based on the Council's April 2010 *Application Guide for an Electric and Fuel Transmission Line Facility* to assist applicants in filing for a Certificate from the Council for the construction of an electric or fuel transmission line as defined in Connecticut General Statutes § 16-50i (a) (1) and (2).

CL&P also consulted Connecticut General Statutes §§ 16-50g through 16-50z and §§ 16-50j-1 through 16-50z-4 of the Regulations of Connecticut State Agencies in preparing this Application.

CL&P has provided a reference table which acts as a directory between the Council's Application Guide and this Application. Section 17 provides a summary of the Application Guide and identifies the corresponding section of the Application where the information is addressed.

Pre-Application Process (General Statutes § 16-50l(e))

CL&P met with representatives of each of the affected municipalities prior to distribution of the Municipal Consultation Filing (MCF). In August 2008, an MCF for the Connecticut portion of the proposed Interstate Reliability Project was distributed to the Chief Elected Official of each of these municipalities. In July 2011, a Supplemental MCF, which augmented the August 2008 MCF with the results of additional studies, was distributed to the Chief Elected Official of each of these municipalities, thereby commencing the municipal consultation period for this Application. During this time, CL&P sought input from the public and local government representatives on the primary route under consideration and alternative routes as presented in the MCF.

F. APPLICATION FILING FEES

(General Statutes § 16-50v(a); Application Guide § IV; General Statutes § 16-50l(a))

The filing fee for this Application is determined by the following schedule:

<u>Estimated Construction Cost</u>		<u>Fee</u>
Up to	\$5,000,000	0.05% or \$1,250.00, whichever is greater
Above	\$5,000,000	0.1% or \$25,250.00, whichever is less

Based on this schedule and the estimated construction cost for the Project presented in Section ES.9, a check for the filing fee in the amount of \$25,250.00 accompanies this Application. CL&P understands that additional assessments may be made for expenses in excess of the filing fee, and that fees in excess of the Council's actual costs will be refunded to CL&P.

Pursuant to §16-50l(a)(3), CL&P also encloses a check in the amount of \$25,000.00 for the municipal participation fees.

G. PROOF OF SERVICE

(General Statutes § 16-50l(b))

This Application was served on the following:

- The chief elected official, the zoning commission, planning commission, the planning and zoning commissions, and the conservation and wetlands commissions of the site municipality and any adjoining municipality having a boundary not more than 2,500 feet from the facility;
- The regional planning agency that encompasses the route municipalities;
- The State Attorney General;
- Each member of the Legislature in whose district the facility is proposed;
- Any federal agency which has jurisdiction over the proposed facility;
- The State Departments of Energy and Environmental Protection (includes former Department of Public Utility Control), Public Health, Economic and Community Development, Agriculture and Transportation; the Council on Environmental Quality; and the Office of Policy and Management.
- Other state and municipal bodies as the Council may by regulation designate, including but not limited to, the State Historic Preservation Officer of the Commission on Culture and Tourism (consolidated with Economic and Community Development) and the Department of Emergency Management and Homeland Security.

Attachments to the cover letter accompanying the filing of this Application to the Council include the transmittal memos sent to these officials and agencies as well as a copy of the service list and an affidavit attesting that appropriate service was made.

H. NOTICE TO COMMUNITY ORGANIZATIONS
(Guide, § VIII)

The applicant made reasonable efforts to provide notice of this Application on the following:

- Affected community groups including Chambers of Commerce, land trusts, environmental groups, trail organizations, historic preservation groups, advocacy groups for the protection of Long Island Sound, and river protection organizations within the watershed affected by the proposed facility that have been identified by a municipality where the facility is proposed to be located, or those that have registered with the Council to be provided notice, as follows:
Farmington River Watershed Association and Farmington River Coordinating Committee.
- Any affected water company within the watershed affected by the proposed facility.

Attachments to the cover letter accompanying the filing of this Application to the Council include a listing of the community groups and water companies to whom notice of this Application is being provided as well as the transmittal memo sent to these organizations and an affidavit that such notice was given.

I. PUBLIC NOTICE
(General Statutes § 16-50l(b))

Notice of this Application was published at least twice prior to the filing of the Application in newspapers having general circulation in the site municipalities. The notice included the name of the applicant, the date of filing, and a summary of the Application. The notice was published in not less than ten point type. Affidavits of publication are attached to the cover letter accompanying the filing of this Application to the Council.

J. NOTICE IN UTILITY BILLS
(General Statutes § 16-50l(b))

Notice of the proposed Project was provided to each CL&P customer located within the municipalities of the proposed and alternative routes on a separate enclosure with each customer's monthly bill for one or more months not earlier than 60 days prior to the filing of this Application with the Council. This

included all CL&P customers in the towns of Lebanon, Columbia, Coventry, Mansfield, Chaplin, Hampton, Brooklyn, Pomfret, Killingly, Putnam, Thompson and Windham.

An affidavit attesting to delivery of the bill insert and a copy of the actual insert itself are attached to the cover letter accompanying the filing of this Application to the Council.

K. NOTICE TO OWNERS OF PROPERTY ABUTTING SUBSTATION AND SWITCHING STATION SITES

(General Statutes § 16-50l(b))

Notice of the proposed modifications to the Card Street Substation in Lebanon, Connecticut, Killingly Substation in Killingly, Connecticut, and Lake Road Switching Station in Killingly, Connecticut, was provided to abutters of each substation or switching station, respectively, via certified mail, return receipt requested. An affidavit regarding this notice is attached to the cover letter accompanying the filing of this Application to the Council.