



STATE OF CONNECTICUT

CONNECTICUT SITING COUNCIL

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Hearing Program

Docket No. 474

Tuesday, August 22, 2017

3:00 p.m./6:30 p.m.

Newington Town Hall Auditorium

131 Cedar Street, Newington, Connecticut

- I. Opening by Council
 - A. Statement read by Chair.
 - B. Comments by Public Official(s) (if any)
 - C. Motions
 - D. Administrative Notice taken by Council

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1. NATIONAL INSTITUTE OF ENVIRONMENTAL HEALTH SCIENCES, NATIONAL INSTITUTES OF HEALTH, *EMF, Electric and Magnetic Fields Associated with the Use of Electric Power*, June 2002, available at http://www.niehs.nih.gov/health/assets/docs_p_z/results_of_emf_research_emf_questions_answers_booklet.pdf
2. NATIONAL RESEARCH COUNCIL, *Research on Power-Frequency Fields Completed Under the Energy Policy Act of 1992*, National Academy of Sciences, 1999, available at <http://books.nap.edu/openbook.php?isbn=0309065437>
3. UNITED STATES DEPARTMENT OF TRANSPORTATION, FEDERAL AVIATION ADMINISTRATION, *Obstruction Marking and Lighting, Advisory Circular AC 70/7460-1L*, December 4, 2015, available at https://www.faa.gov/documentLibrary/media/Advisory_Circular/AC_70_7460-1L.pdf
4. Proclamation No. 8460 - Critical Infrastructure Protection Month, 2009, 74 Fed. Reg. 234, December 8, 2009, available at <http://www.presidency.ucsb.edu/ws/index.php?pid=86954>
5. Presidential Executive Order No. 13636, Improving Critical Infrastructure Cybersecurity, 78 Fed. Reg. 11739, February 19, 2013, available at <http://www.archives.gov/federal-register/executive-orders/2013.html>
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12. UNITED STATES ENERGY INFORMATION ADMINISTRATION, *Annual Energy Outlook 2017*, January 5, 2017, available at <https://www.eia.gov/outlooks/aeo/>
13. UNITED STATES FISH AND WILDLIFE SERVICE, Final 4(d) Rule for the Northern Long-eared Bat, January 14, 2016, available at <https://www.fws.gov/Midwest/endangered/mammals/nleb/pdf/FRnlebFinal4dRule14Jan2016.pdf>
14. UNITED STATES DEPARTMENT OF THE INTERIOR, Order No. 3331, *Designation of the Connecticut River as a National Blueway*, January 3, 2014, available at http://www.fws.gov/northeast/pdf/SO_3331_Watershed_Partnerships.pdf

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17. ISO-NEW ENGLAND, INC., *2015 Regional System Plan*, November 5, 2015, <http://www.iso-ne.com/system-planning/system-plans-studies/rsp>
18. ISO-NEW ENGLAND, INC., *2017 Regional System Plan Project List*, updated June 2017, available at <http://www.iso-ne.com/system-planning/system-plans-studies/rsp>

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24. ISO-NEW ENGLAND, INC., *2017 State of the Grid: 2017, Presentation by Gordon van Welie*, January 30, 2017, available at https://www.iso-ne.com/static-assets/documents/2017/01/20170130_stateofgrid2017_presentation_pr.pdf

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28. CONNECTICUT SITING COUNCIL, *Investigation into the Life Cycle Costs of Electric Transmission Lines*, November 15, 2012, available at http://www.ct.gov/csc/lib/csc/lifecycle2011/life_cycle_final_report.pdf
29. Letter from Robert Carberry, Project Manager, NEEWS Siting and Permitting, Connecticut Light & Power Company to Melanie Bachman, Acting Executive Director, Connecticut Siting Council regarding underground reconstruction of distribution line segments at transmission line road crossings, dated May 17, 2013.

30. CONNECTICUT SITING COUNCIL, Petition No 1217– Eversource Energy petition for a declaratory ruling that no Certificate of Environmental Compatibility and Public Need is required for the proposed separation of the existing 1779/1777 115 kilovolt (kV) electric transmission lines for 1.6 miles within existing right of way from Bloomfield Substation to Bloomfield Junction; proposed separation of the existing 1751/1777 115kV electric transmission lines for 5.3 miles within existing right of way from Bloomfield Junction to North Bloomfield Substation; modifications to the existing overhead 1779 115 kV electric transmission line to loop into the Rood Avenue Substation via underground cables; including related transmission line structure improvements; and modifications to the Bloomfield Substation, 40 Crestview Drive and North Bloomfield Substation, 2 Hoskins Road both in Bloomfield, Connecticut and modifications to the Rood Avenue Substation located at 275 Rood Avenue, Windsor, Connecticut. Record.

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40. STATE OF CONNECTICUT, DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION, BUREAU OF NATURAL RESOURCES, *Connecticut's Wildlife Action Plan*, 2015 Revision, available at http://www.ct.gov/deep/cwp/view.asp?a=2723&q=329520&deepNav_GID=1719#Review

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Other State Agencies

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46. PUBLIC UTILITIES REGULATORY AUTHORITY, *Connecticut Public Utilities Cybersecurity Action Plan*, April 6, 2016, available at http://www.ct.gov/pura/lib/pura/electric/cyber_report_April_6_2016.pdf
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48. Final Report of the Two Storm Panel, January 9, 2012, available at http://www.governor.ct.gov/malloy/lib/malloy/two_storm_panel_final_report.pdf

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E. State Agency comments

1. State of Connecticut Department of Transportation, dated August 14, 2017
2. State of Connecticut Historic Preservation Office, dated August 17, 2017
3. State of Connecticut Department of Environmental Protection, dated August 18, 2017

F. Municipal comments

II. Appearance by Applicant

Applicant:	The Connecticut Light and Power Company d/b/a Eversource Energy
Representative:	Anthony M. Fitzgerald, Esq. Carmody Torrance Sandak & Hennessey LLP

A. Administrative Notice.

FEDERAL

1. FEDERAL ENERGY REGULATORY 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, 1970)
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16. CONNECTICUT SITING COUNCIL, **DOCKET NO. F-2012/2013**, *Review of the Ten-Year Forecast of Connecticut Electric Loads and Resources*, December 12, 2013, available at http://www.ct.gov/csc/lib/csc/pendingproceeds/forecast_2012_2013/f2012_13_finalreport20131212.pdf
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20. **DOCKET NO. 97** - The Connecticut Light and Power Company Certificate of Environmental Compatibility and Public Need for the reconstruction of a 115 kV electric transmission line between Farmington substation in Farmington, Connecticut and North Bloomfield substation in Bloomfield, Connecticut.
21. **DOCKET NO. 217** - Northeast Utilities Service Company application for a Certificate of Environmental Compatibility and Public Need for the construction of a 345-kV electric transmission line and reconstruction of an existing 115-kV electric transmission line between Connecticut Light and Power Company's Plumtree Substation in Bethel, through the Towns of Redding, Weston, and Wilton, and to Norwalk Substation in Norwalk, Connecticut.
22. **DOCKET NO. 272** - The Connecticut Light and Power Company and The United Illuminating Company application for a Certificate of Environmental Compatibility and Public Need for the construction of a new 345-kV electric transmission line and associated facilities between the Scovill Rock Switching Station in Middletown and the Norwalk Substation in Norwalk, Connecticut. This includes construction of the Beseck Switching Station in Wallingford, East Devon Substation in Milford, and Singer Substation in Bridgeport and modifications to the Scovill Rock Switching Station and the Norwalk Substation and certain interconnections.

23. **DOCKET NO. 292** - The Connecticut Light & Power Company application for a Certificate of Environmental Compatibility and Public Need for the construction and operation of 8.7 miles of new underground 115-kilovolt electric transmission cables extending from CL&P's existing Glenbrook Substation in the City of Stamford, through the Town of Darien, to CL&P's existing Norwalk Substation in the City of Norwalk.
24. **DOCKET NO. 435** - The Connecticut Light & Power Company Application for a Certificate of Environmental Compatibility and Public Need for the Stamford Reliability Cable Project, which consists of construction, maintenance, and operation of a new 115-kV underground transmission circuit extending approximately 1.5 miles between Glenbrook and South End Substations, Stamford, Connecticut and related substation improvements.
25. **DOCKET NO. 466** - The Connecticut Light & Power Company d/b/a Eversource Energy application for a Certificate of Environmental Compatibility and Public Need for the Frost Bridge to Campville 115-kilovolt (kV) electric transmission line project that traverses the municipalities of Watertown, Thomaston, Litchfield, and Harwinton, which consists of (a) construction, maintenance and operation of a new 115-kV overhead electric transmission line entirely within existing Eversource right-of-way and associated facilities extending approximately 10.4 miles between Eversource's existing Frost Bridge Substation in the Town of Watertown and existing Campville Substation in the Town of Harwinton; (b) related modifications to Frost Bridge Substation and Campville Substation; and (c) reconfiguration of a 0.4 mile segment of two existing 115-kV electric transmission lines across the Naugatuck River in the Towns of Litchfield and Harwinton within the same existing right-of-way as the new 115-kV electric transmission line.
26. **DOCKET NO. 468** - The Connecticut Light & Power Company d/b/a Eversource Energy application for a Certificate of Environmental Compatibility and Public Need for the Southwest Connecticut Reliability Project that traverses the municipalities of Bethel, Danbury, and Brookfield, which consists of (a) construction, maintenance and operation of a new 115-kV overhead electric transmission line entirely within existing Eversource right-of-way and associated facilities extending approximately 3.4 miles between Eversource's existing Plumtree Substation in the Town of Bethel to its existing Brookfield Junction in the Town of Brookfield; (b) reconfiguration of two existing 115-kV double-circuit electric transmission lines at Eversource's existing Stony Hill Substation in the Town of Brookfield; and (c) related substation modifications.
27. **PETITION NO. 1140** - Eversource Energy petition for a declaratory ruling that no Certificate of Environmental Compatibility and Public Need is required for the proposed reconductoring of a portion of an existing 115-kV transmission line extending from Barbour Hill Substation in South Windsor to Manchester Substation in Manchester, Connecticut and modifications to Barbour Hill Substation and Manchester Substation.
28. **PETITION NO. 1154** - Eversource Energy petition for a declaratory ruling that no Certificate of Environmental Compatibility and Public Need is required for the proposed modifications to the existing Haddam Substation and associated 345-kV and 115-kV transmission lines located at 1384 Saybrook Road, Haddam, Connecticut.

29. **PETITION NO. 1162** - Eversource Energy petition for a declaratory ruling that no Certificate of Environmental Compatibility and Public Need is required for the proposed modifications to its existing Hopewell Substation located at 1007 Chestnut Hill Road, Glastonbury, Connecticut.
30. **PETITION NO. 1201** - Eversource Energy petition for a declaratory ruling that no Certificate of Environmental Compatibility and Public Need is required for the proposed reconductoring of approximately 1.75 miles of its existing No. 1810 115-kV transmission line from Forestville Junction in Southington to Lake Avenue Junction in Bristol, rebuilding and reconductoring of approximately 1.85 miles of its existing Nos. 1800 and 1810 115-kV transmission lines from Southington Substation in Southington to Structure No. 1815 in Southington, reinforcement of an existing transmission structure at Southington Substation in Southington, and related substation and transmission line structure improvements..
31. **PETITION NO. 1217** - Eversource Energy petition for a declaratory ruling that no Certificate of Environmental Compatibility and Public Need is required for the proposed separation of the existing 1779/1777 115 kilovolt (kV) electric transmission lines for 1.6 miles within existing right of way from Bloomfield Substation to Bloomfield Junction; proposed separation of the existing 1751/1777 115kV electric transmission lines for 5.3 miles within existing right of way from Bloomfield Junction to North Bloomfield Substation; modifications to the existing overhead 1779 115 kV electric transmission line to loop into the Rood Avenue Substation via underground cables; including related transmission line structure improvements; and modifications to the Bloomfield Substation, 40 Crestview Drive and North Bloomfield Substation, 2 Hoskins Road both in Bloomfield, Connecticut and modifications to the Rood Avenue Substation located at 275 Rood Avenue, Windsor, Connecticut.
32. **PETITION NO. 1283** - The Connecticut Light and Power Company d/b/a Eversource Energy petition for a declaratory ruling that no Certificate of Environmental Compatibility and Public Need is required for the proposed modifications to the existing Southington Substation located at 315 Belleview Avenue, Southington, Connecticut.
33. Letter from Robert Carberry, Project Manager, NEEWS Siting and Permitting, Connecticut Light & Power Company to Melanie Bachman, Acting Executive Director, Connecticut Siting Council regarding underground reconstruction of distribution line segments at transmission line road crossings, dated May 17, 2013

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MAPS

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B. Exhibits for Identification.

1. Application for a Certificate of Environmental Compatibility and Public Need filed by The Connecticut Light & Power Company d/b/a Eversource Energy Volumes 1 through 3, received June 7, 2017, and attachments and bulk file exhibits (regional, municipal, and consultation documents)
2. Eversource Energy Letter Regarding Posted Signs with Attachments, dated August 11, 2017
3. Eversource Energy Correction Sheet Regarding Revisions to Volume 1 of the Application, dated August 14, 2017
4. Eversource Energy Direct Testimony of Kenneth Bowes and Christopher Soderman, dated August 15, 2017
5. Eversource Energy Direct Testimony of Louise F. Mango, dated August 15, 2017
6. Eversource Energy Resumes of Witnesses, dated August 15, 2017
 - a. Kenneth B. Bowes
 - b. Julia Frayer
 - c. J. Patrick Holmes
 - d. Louise F. Mango
 - e. Dr. Gabor Mezei
 - f. Christopher P. Newhall

- g. Robert J. Russo
- h. Christopher Paul Soderman

- 7. Eversource Energy's Responses to Council Interrogatories, dated August 15, 2017.
- 8. Eversource Energy's Responses to the Connecticut Department of Transportation's Comments, dated August 18, 2017.
- 9. Route map to be used in the introductory presentation by Ken Bowes at the Public Comment Session, dated August 18, 2017.
- 10. Field Review Handout and Maps, dated August 22, 2017

C. Swear Witnesses

- 1. Kenneth B. Bowes, Vice President – Transmission Performance, Eversource Energy
- 2. Julia Frayer, Managing Director, London Economics International LLC
- 3. J. Patrick Holmes, Project Manager – Construction Design-Build Division, Burns & McDonnell
- 4. Louise F. Mango, President, Phenix Environmental, Inc.
- 5. Gabor Mezei, M.D., Ph.D., Physician and Epidemiologist, Exponent
- 6. Christopher P. Newhall, PWS, CPESC, Senior Project Manager, Aecom
- 7. Robert J. Russo, P.E., Manager – Transmission and Distribution Planning, Eversource Energy
- 8. Christopher Paul Soderman, P.E., Lead Engineer - Transmission Line & Civil Engineering, Eversource Energy

D. Full Exhibits - Verification of exhibits by witnesses and admission by the Council.

E. Cross Examination.

- 1. Council
- 2. Parties & intervenors

III. Closing by Connecticut Siting Council.