



STATE OF CONNECTICUT

CONNECTICUT SITING COUNCIL

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Hearing Program

Docket No. 465

Thursday, February 25, 2016

3:00 p.m.

Stratford Town Hall, Council Chambers

2725 Main Street, Stratford, Connecticut

I. Opening by Council

A. Statement read by Chair.

B. Comments by Public Official(s) (if any)

C. Motions (if any)

1. Town of Stratford Motion for Party Status, dated February 19, 2016

D. Administrative Notice taken by Council

FEDERAL

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. 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>
4. 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>
5. UNITED STATES DEPARTMENT OF THE INTERIOR, NATIONAL PARK SERVICE, *National Register of Historic Places*, July 2010, available at <http://www.nps.gov/history/nr/research/index.htm>
6. FEDERAL AVIATION ADMINISTRATION, UNITED STATES DEPARTMENT OF TRANSPORTATION, OBSTRUCTION MARKING AND LIGHTING, ADVISORY CIRCULAR AC70/7460-1K (February 2007), available at https://oeaaa.faa.gov/oeaaa/external/content/AC70_7460_1K.pdf

7. UNITED STATES DEPARTMENT OF ENERGY, FEDERAL ENERGY REGULATORY COMMISSION AND THE NORTH AMERICAN ELECTRIC AND RELIABILITY CORPORATION, *Report on Transmission Facility Outages During the Northeast Snowstorm of October 29-30, 2011 – Causes and Recommendations*, May 31, 2012, available at <http://ferc.gov/legal/staff-reports/05-31-2012-ne-outage-report.pdf>
8. NORTH AMERICAN ELECTRIC RELIABILITY CORPORATION, Critical Infrastructure Protection, CIP-014-1, Physical Security Standards, May 1, 2014, available at <http://www.nerc.com/pa/Stand/Reliability%20Standards/CIP-014-1.pdf>
9. UNITED STATES QUADRENNIAL ENERGY REVIEW TASK FORCE, *Quadrennial Energy Review: Energy Transmission, Storage, and Distribution Infrastructure*, April 2015, available at <http://energy.gov/epsa/downloads/quadrennial-energy-review-full-report>

REGIONAL

10. ISO-NEW ENGLAND, INC., *Power Generation and Fuel Diversity in New England*, August 25, 2005, available at http://www.iso-ne.com/pubs/whtpprs/iso_ne_paper.pdf
11. ISO-NEW ENGLAND, INC., *Electricity Costs White Paper*, June 1, 2006, available at http://www.iso-ne.com/pubs/whtpprs/elec_costs_wht_ppr.pdf
12. ISO NEW ENGLAND, *2015 Regional System Plan*, November 5, 2015, <http://www.iso-ne.com/system-planning/system-plans-studies/rsp>
13. ISO-NEW ENGLAND, INC., *2015-2024 Forecast Report of Capacity, Energy, Loads & Transmission (CELT)*, May 1, 2015, available at http://www.iso-ne.com/trans/celt/report/2014/2014_celt_report_rev.pdf

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14. CONNECTICUT SITING COUNCIL, PETITION NO. 1176 – The United Illuminating Company declaratory ruling that no Certificate of Environmental Compatibility and Public Need is required for the proposed Bridgeport 115-kV transmission line upgrade project consisting of the northern and southern sections of 115-kV lines extending from Congress Substation in the City of Bridgeport to Baird Substation in the Town of Stratford, Connecticut, and related substation improvements. Record.
15. CONNECTICUT SITING COUNCIL, *Electric and Magnetic Field Best Management Practices for the Construction of Electric Transmission Lines in Connecticut*, December 14, 2007, revised February 20, 2014, available at <http://www.ct.gov/csc/emf-bmp>
16. CONNECTICUT SITING COUNCIL, *2012/2013 Forecast of Electric Loads and Resources*, December 12, 2013, available at http://www.ct.gov/csc/lib/csc/pendingproceeds/forecast_2012_2013/f2012_13_finalreport20131212.pdf

17. CONNECTICUT SITING COUNCIL, *2014/2015 Forecast of Electric Loads and Resources*, December 10, 2015, available at http://www.ct.gov/csc/lib/csc/pendingproceeds/forecast_2014_2015/f-2015_finalreport.pdf
18. CONNECTICUT SITING COUNCIL, *White Paper on the Security of Siting Energy Facilities*, October 8, 2009, available at http://www.ct.gov/csc/lib/csc/docket_346/whiteppr_final.pdf
19. 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
20. LETTER TO CONNECTICUT SITING COUNCIL FROM UIL HOLDINGS CORPORATION regarding Notification of Change in Ownership, dated January 8, 2016.

Department of Energy and Environmental Protection

21. STATE OF CONNECTICUT, DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION, CONNECTICUT COUNCIL ON SOIL AND WATER CONSERVATION, *Connecticut Guidelines for Soil Erosion and Sediment Control*, DEP Bulletin 34, May 2002, last revised September 2007, available at http://www.ct.gov/dep/cwp/view.asp?a=2720&q=325660&depNav_GID=1654
22. State of Connecticut Department of Energy and Environmental Protection, *The Connecticut Stormwater Quality Manual*, 2004, and appendices, available at http://www.ct.gov/DEP/cwp/view.asp?a=2721&q=325704&depNav_GID=1654
23. STATE OF CONNECTICUT, DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION, *Amphibians and Reptiles in Connecticut*, DEP Bulletin 32, Michael W. Klemens, 2000, available at <http://ctdepstore.com/Amphibians-and-Reptiles-in-Connecticut-101.htm>
24. STATE OF CONNECTICUT, DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION, BUREAU OF WATER MANAGEMENT, PLANNING AND STANDARDS DIVISION, *Water Quality Standards*, Surface Water Quality Standards Effective February 25, 2011 and Ground Water Quality Standards Effective April 12, 1996, available at http://www.ct.gov/dep/lib/dep/water/water_quality_standards/wqs.pdf
25. STATE OF CONNECTICUT, DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION, *Connecticut Air Quality Standards*, Effective April 15, 2014, Regulations of Connecticut State Agencies §§ 22a-174-24, et seq., available at <http://www.ct.gov/deep/lib/deep/air/regulations/mainregs/sec24.pdf>
26. STATE OF CONNECTICUT, DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION, *Connecticut Noise Control Regulations*, Effective June 15, 1978, Regulations of Connecticut State Agencies §§22a-69-1, et seq., available at <http://www.ct.gov/deep/lib/deep/regulations/22a/22a-69-1through7.pdf>
27. STATE OF CONNECTICUT, DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION, *2014 Integrated Resource Plan for Connecticut*, March 17, 2015, available at <http://www.dpnc.state.ct.us/DEEPEnergy.nsf/c6c6d525f7cdd1168525797d0047c5bf/8e95d81c37c7237085257e0b004770b2?OpenDocument>

28. STATE OF CONNECTICUT, DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION, *2013 Comprehensive Energy Strategy for Connecticut*, February 19, 2013, available at http://www.ct.gov/deep/lib/deep/energy/cep/2013_ces_final.pdf

Department of Public Health

29. STATE OF CONNECTICUT, DEPARTMENT OF PUBLIC HEALTH, *Electric and Magnetic Fields (EMF): Health Concerns Fact Sheet*, April 2008, available at http://www.ct.gov/dph/lib/dph/environmental_health/eoha/pdf/emf_fact_sheet_-_2008.pdf

Department of Transportation

30. STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION, *ConnDOT Drainage Manual*, 2000, last revised December 2003, available at <http://www.ct.gov/dot/cwp/view.asp?a=3200&q=260116>
31. STATE OF CONNECTICUT, DEPARTMENT OF TRANSPORTATION, *Utility Accommodation Manual*, February 2009, available at <http://www.ct.gov/dot/lib/dot/documents/dutilities/ACCOMODATION.pdf>
32. STATE OF CONNECTICUT, DEPARTMENT OF TRANSPORTATION, BUREAU OF ENGINEERING AND HIGHWAY OPERATIONS, *Public Service Facility Policy and Procedures for Highways in Connecticut*, November 2008, available at <http://www.ct.gov/dot/lib/dot/documents/dutilities/UtilityPolicyProcedures.pdf>

Other State Agencies

33. PUBLIC UTILITIES REGULATORY AUTHORITY, *Cybersecurity and Connecticut's Public Utilities*, April 14, 2014, available at http://www.ct.gov/pura/lib/pura/electric/cyber_report_041414.pdf
34. STATE OF CONNECTICUT, DEPARTMENT OF ECONOMIC AND COMMUNITY DEVELOPMENT, STATE HISTORIC PRESERVATION OFFICE, *Investment in Connecticut: State Historic Preservation Plan 2011-2016*, July 2011, available at http://www.ct.gov/cct/lib/cct/state_historic_preservation_plan_ic.pdf
35. STATE OF CONNECTICUT, OFFICE OF POLICY AND MANAGEMENT, *Conservation and Development Policies Plan for Connecticut 2013-2018*, June 5, 2013, available at http://www.ct.gov/opm/lib/opm/igp/org/cdupdate/2013-2018_cd_plan.pdf
36. 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
37. STATE OF CONNECTICUT, CLEAN ENERGY FINANCE AND INVESTMENT AUTHORITY, *Comprehensive Plan FY 2013 through FY 2015*, available at <http://www.ctcleanenergy.com/Portals/0/FY13%20Comprehensive%20Plan.pdf>
38. STATE OF CONNECTICUT, DEPARTMENT OF EMERGENCY SERVICES AND PUBLIC PROTECTION, DIVISION OF EMERGENCY MANAGEMENT AND HOMELAND SECURITY, *State of Connecticut State Response Framework, Version 2.0*, August 2011, available at http://www.ct.gov/demhs/lib/demhs/ct_srf_aug_2011.pdf

39. STATE OF CONNECTICUT, DEPARTMENT OF EMERGENCY SERVICES AND PUBLIC PROTECTION, DIVISION OF EMERGENCY MANAGEMENT AND HOMELAND SECURITY, *State of Connecticut State Response Framework, Draft Connecticut Emergency Support Function 12, All Hazards Energy and Utilities Annex*, July 2012, available at http://www.ct.gov/demhs/lib/demhs/eppi/esf_12_all-hazards_energy_and_utilities_annex_final_draft_july_2012.pdf
40. GOVERNOR'S STEERING COMMITTEE ON CLIMATE CHANGE, ADAPTATION SUBCOMMITTEE, *Connecticut Climate Change Preparedness Plan, Adaptation Strategies for Agriculture, Infrastructure, Natural Resources and Public Health Climate Change Vulnerabilities*, 2011, available at http://www.ct.gov/deep/lib/deep/climatechange/connecticut_climate_preparedness_plan_2011.pdf
41. STATE OF CONNECTICUT, STATE VEGETATION MANAGEMENT TASK FORCE, *Final Report Issued to the Connecticut Department of Energy and Environmental Protection*, August 28, 2012, available at http://www.ct.gov/deep/lib/deep/forestry/vmtf/final_report/svmtf_final_report.pdf

TECHNICAL

42. INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, *IEEE Standard Procedures for Measurement of Power Frequency Electric and Magnetic Fields From AC Power Lines*, IEEE Std 644-1994, Reaffirmed 2008, available for purchase at <http://standards.ieee.org/findstds/standard/644-1994.html>
43. INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, *IEEE Guide for the Design, Construction, and Operation of Safe and Reliable Substations for Community Acceptance and Environmental Compatibility*, IEEE Std 1127-2013, available for purchase at <http://standards.ieee.org/findstds/standard/1127-2013.html>
44. INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, *2015 IEEE Guide for Animal Deterrents for Electric Power Supply Substations*, June 9, 2015, available for purchase at <https://standards.ieee.org/findstds/standard/1264-2015.html>
45. INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, *National Electrical Safety Code*, American National Standards Institute, Standard C2-2012, August 1, 2011.
46. EXPONENT, INC., *EMF and Health: Review and Update of the Scientific Research*, January 28, 2009, available at <http://transmission.bchydro.com/NR/rdonlyres/DEF09171-908A-48DF-A9DA-F28676D239FD/0/Exponent2009EMFUpdate0209.pdf>
47. EXPONENT, INC., *Current Status of Research on Extremely Low Frequency Electric and Magnetic Fields and Health: Interstate Reliability Project*, January 10, 2011, available at http://www.ct.gov/csc/lib/csc/pendingproceeds/docket_424/424_application/v1interstate_csc_application_v1.pdf (Appendix D EMF Health Report)

ENVIRONMENTAL

48. RICHARD M. DEGRAAF & DEBORAH D. RUDIS, *New England Wildlife: Habitat, Natural History, and Distribution*, University of Massachusetts Press, 1983, available at <http://www.treesearch.fs.fed.us/pubs/4148>

49. ARAM J.K. CALHOUN & MICHAEL W. KLEMENS, *Best Development Practices: Conserving Pool-Breeding Amphibians in Residential and Commercial Developments in the Northeastern United States*, MCA Technical Paper No. 5, Metropolitan Conservation Alliance 2002, available at <http://www.umaine.edu/vernalpools/PDFs/Best%20Development%20Practices%20%20-%20%20Conserving%20Pool-breeding%20Amph.pdf>
50. ARAM J.K. CALHOUN, ET. AL., *Conserving pool-breeding amphibians in human-dominated landscapes through local implementation of Best Development Practices*, *Wetlands Ecology and Management*, July 9, 2004 at 291, available at <http://www.environmental-expert.com/Files/0/articles/9373/Conservingpool-breeding.pdf>
51. CHRISTOPHER BARTON AND KAREN KINKEAD, *Do Erosion Control and Snakes Mesh?*, *Journal of Science and Water Conservation* 2005, Volume 60, Number 2, available at <http://www.treesearch.fs.fed.us/pubs/21050>

MAPS

52. STATE OF CONNECTICUT, DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION, NATURAL RESOURCES DIVISION, *Atlas of Connecticut Topographic Maps*, DEP Bulletin 17, 1992, available at http://www.ct.gov/deep/cwp/view.asp?a=2701&q=323450&deepNav_GID=1636
53. STATE OF CONNECTICUT DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION, *Natural Diversity Database Map for the Town of Stratford*, last updated September 2015, available at <http://www.depdata.ct.gov/naturalresources/endangeredspecies/nddbpdfs.asp>
54. CONNECTICUT FOREST & PARK ASSOCIATION, *Connecticut Walk Book West*, Ann T. Colson, ed., 19th ed. 2006, available at <http://www.ctwoodlands.org/node/17>
55. NATIONAL AUDUBON SOCIETY, *Connecticut Important Bird Areas*, last updated June 25, 2010, available at <http://netapp.audubon.org/iba/state/US-CT>
56. MAIL-A-MAP STREET MAP, Towns of Stratford, available at <http://mailamap.com/street-maps>
57. UNITED STATES GEOLOGICAL SURVEY, *Connecticut Topographic Map Collection*, available at http://magic.lib.uconn.edu/topographic_maps.html
58. STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION, *Connecticut Official State Tourism Map*

E. State Agency comments

1. Department of Transportation, dated February 8, 2016

F. Municipal comments

II. Appearance by Applicant

Applicant: The United Illuminating Company (UI)

Representative: James R. Morrissey, Esq.

A. Administrative Notice.

B. Exhibits for Identification.

1. Application for a Certificate of Environmental Compatibility and Public Need filed by The United Illuminating Company, received December 21, 2015, and attachments and bulk file exhibits including:

Bulk file exhibits:

- a. Abutter Information Notice and List
 - b. Stratford Inland Wetland Regulations
 - c. Stratford Zoning Regulations, Draft Revision
 - d. Stratford Plan of Conservations and Development
 - e. Greater Bridgeport Regional Council Draft POCD Public Hearing December 2015
 - f. Stratford Waterfront Vision Plan
 - g. Housatonic Greenway Plan-Revised
 - h. New Baird Municipal Consultation Filing
 - i. Baseline Environmental Assessment Baird Substation
2. Applicant's Responses to Council Interrogatories, dated February 18, 2016
 3. Applicant's Pre-Hearing Submission - All Points Technology Supplemental Aerial Overlay, dated February 18, 2016
 4. Applicant's Affidavit of Sign Posting, dated February 19, 2016

C. Swear Witnesses

1. Samantha Marone, Manager, Permitting & Public Outreach, UI
2. Matthew Cloud, Transmission & Substation Engineer, UI
3. Ronald Rossetti, PE, PMP, Senior Director, Engineering, UI
4. Shawn Crosbie, Environmental Analyst, UIL Holdings Corp.
5. David Bradt, Director, Transmission Planning, UI
6. Tony Buccheri, PMP, Director – Transmission & Substation Project Management, UI
7. Dr. William Bailey, Ph.D., Principal Scientist, Exponent
8. David Lord, Certified Soil Scientist, Soil Resource Consultants
9. Ryan Baker, Acoustic Specialist, Black & Veatch LLP
10. Mike Libertine, Graphics Specialist, All-Points Technology Corporation, P.C.
11. Kyle Eckert, PE, Civil Engineer, GHD Pty. Ltd.
12. Jeffrey Lambert, PE, Civil Engineer, GHD Pty. Ltd.

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

E. Cross Examination.

1. Council
2. Office of Consumer Counsel (Attorney Bidra)

III. Appearance by Party: Office of Consumer Counsel

Representative: Lauren Henault Bidra, Esq.

A. Administrative Notice.

B. Exhibits for Identification.

1. Office of Consumer Counsel's Motion for Party Status, dated January 22, 2016

C. Swear Witnesses

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

E. Cross Examination.

1. Council
2. Applicant

IV. Closing or Continuation by Connecticut Siting Council.