



STATE OF CONNECTICUT

CONNECTICUT SITING COUNCIL

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Hearing Program

Docket No. 469

Thursday, October 6, 2016

3:00 p.m. and 7:00 p.m.

Killingly Town Hall

Town Meeting Room

172 Main Street, Killingly, Connecticut

I. Opening by Council

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

FEDERAL

1. OFFICE OF ENGINEERING AND TECHNOLOGY, FEDERAL COMMUNICATIONS COMMISSION, QUESTIONS AND ANSWERS ABOUT BIOLOGICAL EFFECTS AND POTENTIAL HAZARDS OF RADIOFREQUENCY ELECTROMAGNETIC FIELDS, OET BULLETIN NO. 56 (August 1999), *available at* http://www.fcc.gov/Bureaus/Engineering_Technology/Documents/bulletins/oet56/oet56e4.pdf
2. OFFICE OF ENGINEERING AND TECHNOLOGY, FEDERAL COMMUNICATIONS COMMISSION, EVALUATING COMPLIANCE WITH FCC-GUIDELINES FOR HUMAN EXPOSURE TO RADIOFREQUENCY ELECTROMAGNETIC FIELDS, OET BULLETIN NO. 65 (August 1997), *available at* http://www.fcc.gov/Bureaus/Engineering_Technology/Documents/bulletins/oet65/oet65.pdf
3. Guidelines for Evaluating the Environmental Effects of Radiofrequency Radiation, Federal Communications Commission's Report and Order, 62 Fed. Reg. 3232 (September 12, 1997), *available at* <http://www.epa.gov/fedrgstr/EPA-AIR/1997/January/Day-22/ga1350.htm>
4. Telecommunications Act of 1996, as amended, Pub. L. No. 104-104, 110 Stat. 56 (codified as amended in scattered sections of 47 U.S.C.), *available at* http://clerk.house.gov/library/reference-files/PPL_TelecommunicationsAct_%201996.pdf
5. FEDERAL COMMUNICATIONS COMMISSION, WARNING, ALERT AND RESPONSE NETWORK ACT, Pub. L. No. 109-437, 120 Stat. 1936 (2006), (codified at 47 U.S.C. §332(d)(1)) (2006), *available at* <http://transition.fcc.gov/pshs/docs/emergency-information/emas-warn-act.pdf>
6. Wireless Communications and Public Safety Act of 1999, as amended, 47 U.S.C. §§ 615-615b (2010).

7. Enhance 911 Act of 2004, as amended, 47 U.S.C. § 942 (2010).
8. Middle Class Tax Relief and Job Creation Act of 2012, Pub. L. No. 112-96, §6409 Wireless Facilities Deployment (2012), *available at* <http://www.gpo.gov/fdsys/pkg/PLAW-112publ96/pdf/PLAW-112publ96.pdf>.
9. Actions That May Have a Significant Environmental Effect, for Which Environmental Assessments (EAs) Must be Prepared, 47 C.F.R. § 1.1307 (2010).
10. Radiofrequency Radiation Exposure Limits, 47 C.F.R. § 1.1310 (2010).
11. Presidential Proclamation No. 8460, 74 Fed. Reg. 234 (December 8, 2009), *available at* <http://www.presidency.ucsb.edu/ws/index.php?pid=86954>
12. Presidential Order No. 13616, Accelerating Broadband Infrastructure Development, 77 Fed. Reg. 119 (June 14, 2012), *available at* <http://www.gpo.gov/fdsys/pkg/FR-2012-06-20/pdf/2012-15183.pdf>
13. Division of Migratory Bird Management, United States Fish & Wildlife Service, United States Department of the Interior, *Service Interim Guidelines, Communications Tower Siting, Construction, Operation and Decommissioning Recommendations* (last updated June 10, 2014), *available at* <http://www.fws.gov/midwest/endangered/section7/telecomguidance.html>
14. National Park Service, United States Department of the Interior, *National Register of Historic Places* (July 2010), *available at* <http://www.nps.gov/history/nr/research/index.htm>
15. FEDERAL AVIATION ADMINISTRATION, UNITED STATES DEPARTMENT OF TRANSPORTATION, OBSTRUCTION MARKING AND LIGHTING, ADVISORY CIRCULAR AC70/7460-1K (February 2007), *available at* https://oiaa.faa.gov/oiaa/external/content/AC70_7460_1K.pdf.
16. Stephen J. Blumberg, et al, *Wireless Substitution: Early Release of Estimates from the National Health Interview Survey, January – June 2010*, Division of Health Interview Statistics, National Center for Health Statistics, U.S. Center of Disease Control, December 21, 2010, *available at* <http://www.cdc.gov/nchs/data/nhis/earlyrelease/wireless201012.pdf>
17. FEDERAL COMMUNICATIONS COMMISSION, Public Notice – Wireless Telecommunications Bureau Offers Guidance on Interpretation of Section 6409(a) of the Middle Class Tax Relief and Job Creation Act of 2012, DA 12-2407, January 25, 2013, *available at* https://apps.fcc.gov/edocs_public/attachmatch/DA-12-2047A1.pdf
18. Connecting America: The National Broadband Plan, Federal Communications Commission (2010), *available at* <http://www.broadband.gov/plan/>.
19. FEDERAL COMMUNICATIONS COMMISSION, Text-to-911: Quick Facts & FAQs, June 2013, *available at* <http://www.fcc.gov/guides/text-911-quick-facts-faqs>.
20. FEDERAL COMMUNICATIONS COMMISSION, Wireless Infrastructure Report and Order, FCC 14-153, October 21, 2014, *available at* <http://www.fcc.gov/document/wireless-infrastructure-report-and-order>

STATE

Connecticut Siting Council

21. STATE OF CONNECTICUT SITING COUNCIL, STATEWIDE PLAN FOR WIRELESS TELECOMMUNICATIONS COVERAGE, Revised February 2014, *available at* <http://www.ct.gov/csc/lib/csc/pendingproceeds/2013telcomplan-pub.pdf>
22. STATE OF CONNECTICUT SITING COUNCIL, TELECOMMUNICATIONS FACILITIES: AN ILLUSTRATED PRIMER ON THE SITING OF FACILITIES WITHIN CONNECTICUT AND THROUGHOUT THE NATION, VERSION II, *available at* http://www.ct.gov/csc/lib/csc/csc_tower_3_07.pdf
23. STATE OF CONNECTICUT SITING COUNCIL, STATEWIDE TELECOMMUNICATIONS COVERAGE DATABASE, *available at* <http://www.ct.gov/csc/cwp/view.asp?a=895&Q=248312&cscNav=|>
24. **DOCKET NO. 432** – Feasibility study of back-up power requirements for telecommunications towers and antennas pursuant to Public Act 12-148, *available at* <http://www.ct.gov/csc/cwp/view.asp?a=962&Q=511254&PM=1>
25. **DOCKET NO. 442** – New Cingular Wireless PCS, LLC Certificate of Environmental Compatibility and Public Need for the construction, maintenance, and operation of a telecommunications facility located at 284 New Canaan Avenue, Norwalk, Connecticut. Memorandum from Siting Council Acting Executive Director to Parties and Intervenors, Daniel Forrest and Todd Levine of SHPO, dated February 11, 2014

Department of Energy and Environmental Protection

26. STATE OF CONNECTICUT DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION, 2005 COMPREHENSIVE WILDLIFE CONSERVATION STRATEGY, 2015 REVISION, *available at* http://www.ct.gov/deep/cwp/view.asp?a=2723&q=329520&depNav_GID=1719#Review
27. CONNECTICUT COUNCIL ON SOIL AND WATER CONSERVATION, STATE OF CONNECTICUT DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION, 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
28. 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#download
29. 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>
30. PLANNING AND STANDARDS DIVISION, BUREAU OF WATER MANAGEMENT, CONNECTICUT DEPT. OF ENERGY AND ENVIRONMENTAL PROTECTION, WATER QUALITY STANDARDS, (Surface Water Quality Standards Effective December 17, 2002 and Ground Water Quality Standards Effective April 12, 1996), *available at* http://www.ct.gov/dep/lib/dep/water/water_quality_standards/wqs.pdf

31. CONNECTICUT AIR QUALITY STANDARDS, CONNECTICUT DEPT. OF ENERGY AND ENVIRONMENTAL PROTECTION, Regs. Conn. State Agencies §§ 22a-174-24, et seq. (2006).
32. CONNECTICUT NOISE CONTROL REGULATIONS, CONNECTICUT DEPT. OF ENERGY AND ENVIRONMENTAL PROTECTION, Regs. Conn. State Agencies §§22a-69-1, et seq. (2006).
33. STATE OF CONNECTICUT, DEPT. OF PUBLIC UTILITY CONTROL, Docket No. 08-06-19, DPUC Investigation into the Deployment of Distributed Antenna System (DAS) in the Public Rights of Way, September 29, 2010.
34. Letter from Elizabeth Brothers, Assistant Director, State of Connecticut Department of Environmental Protection, to Christopher B. Fisher, Esq., Attorney, Cuddy & Feder, LLP (Aug. 10, 2009), *available at* http://www.ct.gov/csc/lib/csc/pendingproceeds/docket_376/do376-20090817-depcommentadminnotice.pdf
35. STATE OF CONNECTICUT, DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION, BUREAU OF NATURAL RESOURCES, Connecticut's Endangered, Threatened and Special Concern Species 2015, August 2015, *available at* http://www.ct.gov/deep/lib/deep/wildlife/pdf_files/nongame/ETS15.pdf
36. 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
37. 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

Department of Transportation

38. 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>
39. STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION, POLICY STATEMENT FOR TELECOMMUNICATIONS INSTALLATIONS WITHIN THE STATE HIGHWAY RIGHT OF WAY, POLICY NO. E&H.O. - 53 (Aug. 7, 2006), *available at* http://www.ct.gov/csc/lib/csc/row_ps.pdf

Other State Agencies

40. 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
41. State Plan of Conservation and Development, as amended, Conn. Gen. Stat. §§ 16a-27 to 16a-32a (2013).
42. STATE OF CONNECTICUT DEPARTMENT OF PUBLIC HEALTH, ENVIRONMENTAL AND OCCUPATIONAL HEALTH ASSESSMENT, RADIATION – CELL PHONE TOWERS – QUESTIONS AND ANSWERS ABOUT HEALTH, (May 2015), *available at* http://www.ct.gov/dph/lib/dph/environmental_health/coha/pdf/051115_cell_phone_tower_final.pdf

43. STATE OF CONNECTICUT DEPARTMENT OF PUBLIC HEALTH, CELL PHONES – QUESTIONS AND ANSWERS ABOUT SAFETY (May 2015), *available at* http://www.ct.gov/dph/lib/dph/environmental_health/eoha/toxicology_risk_assessment/050815_cell_phones_final.pdf
44. 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
45. An Act Establishing Connecticut Heritage Areas, as amended, 2009 Conn. Acts 221 (Reg. Sess.), codified at Conn. Gen. Stat. §16a-27 (2010), *available at* <http://www.cga.ct.gov/2009/ACT/PA/2009PA-00221-R00HB-06584-PA.htm>
46. 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.
47. 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
48. 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
49. DEPARTMENT OF EMERGENCY SERVICES AND PUBLIC PROTECTION, DIVISION OF EMERGENCY MANAGEMENT AND HOMELAND SECURITY, STATE OF CONNECTICUT I-CALL/I-TAC INTEROPERABILITY TRAINING PROGRAM, November 2010, *available at* http://www.ct.gov/demhs/lib/demhs/communications/projects/i-call_program_update_nov_2010.pdf
50. 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

TECHNICAL

51. INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, IEEE STANDARD FOR SAFETY LEVELS WITH RESPECT TO HUMAN EXPOSURE TO RADIO FREQUENCY ELECTROMAGNETIC FIELDS, 3 kHz to 300 GHz, IEEE Std. C95.1-2005 (November 1, 2009), *available at* [https://sbwsweb.ieee.org/ecustomercme_enu/start.swe?SWECmd=GotoView&SWEView=Catalog+View+\(eSales\)_Standards_IEEE&mem_type=Customer&SWEHo=sbwsweb.ieee.org&SWETS=1192713657](https://sbwsweb.ieee.org/ecustomercme_enu/start.swe?SWECmd=GotoView&SWEView=Catalog+View+(eSales)_Standards_IEEE&mem_type=Customer&SWEHo=sbwsweb.ieee.org&SWETS=1192713657)

52. TELECOMMUNICATIONS INDUSTRY ASSOCIATION & ELECTRONICS INDUSTRIES ASSOCIATION, STRUCTURAL STANDARDS FOR STEEL ANTENNA TOWERS AND ANTENNA SUPPORTING STRUCTURES, TIA/EIA-222-G (2006), *available at* <http://www.tiaonline.org/standards/catalog/index.cfm>
53. TELECOMMUNICATIONS INDUSTRY ASSOCIATION & ELECTRONICS INDUSTRIES ASSOCIATION, STRUCTURAL STANDARDS FOR STEEL ANTENNA TOWERS AND ANTENNA SUPPORTING STRUCTURES, TIA/EIA-222-F (1996), *available at* <http://www.preferredtower.com/codes/tia/index.html>
54. Letter from John R. Morissette, Manager of Transmission Siting and Permitting, The Connecticut Light and Power Company, to Christopher B. Fisher, Esq., Attorney, Cuddy & Feder, LLP, (Feb. 19, 2010) regarding CL&P policy on the installation of cellular and PCS antennas on electric transmission structures, *available at* http://www.ct.gov/csc/lib/csc/pendingproceeds/docket_388/do388-20100312_supplemental_submission.pdf
55. HEALTH PROTECTION AGENCY, HEALTH EFFECTS FROM RADIOFREQUENCY MAGNETIC FIELDS, REPORT OF THE INDEPENDENT ADVISORY GROUP ON NON-IONISING RADIATION, April 2012, *available at* http://www.hpa.org.uk/webw/HPAweb&HPAwebStandard/HPAweb_C/1317133826368
56. CISCO SYSTEMS, INC., *Cisco Visual Networking Index: Global Mobile Data Traffic Forecast Update, 2015-2020 White Paper*, February 3, 2016, *available at*, <http://www.cisco.com/c/en/us/solutions/collateral/service-provider/visual-networking-index-vni/mobile-white-paper-c11-520862.pdf>

ENVIRONMENTAL

57. 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>
58. 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>
59. 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.maineaudubon.org/resource/documents/CalhounWEMpaper.pdf>
60. 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

61. UNITED STATES DEPARTMENT OF THE INTERIOR, NATIONAL PARK SERVICE, *Interactive National Heritage Areas Map*, available at <https://www.nps.gov/maps/full.html?mapId=01a03739-ab0c-40eb-bc3d-6791d3bb67fa>
62. STATE OF CONNECTICUT DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION, *Natural Diversity Database Map for the Town of Killingly*, (last updated June 2016), available at <http://www.depdata.ct.gov/naturalresources/endangeredspecies/nddbpdfs.asp>
63. STATE OF CONNECTICUT DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION, *Aquifer Protection Area Map for Towns of Killingly, Putnam, and Pomfret*, last updated August 1, 2016, available at <http://www.ct.gov/deep/cwp/view.asp?a=2685&q=322248>
64. STATE OF CONNECTICUT DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION, *Northern long-eared bat areas of concern in Connecticut to assist with Federal Endangered Species Act Compliance*, last updated February 1, 2016, available at http://www.ct.gov/deep/lib/deep/endangered_species/images/nleb_approved2_16.pdf
65. UNIVERSITY OF CONNECTICUT, CONNECTICUT ENVIRONMENTAL CONDITIONS ONLINE, *Connecticut Critical Habitats and Open Space*, last updated November 28, 2012, available at <http://cteco.maps.arcgis.com/home/item.html?id=a1bf59798c5b45a98aeab97dafd60b9>
66. CONNECTICUT FOREST & PARK ASSOCIATION, CONNECTICUT WALK BOOK EAST (Ann T. Colson & Cindi D. Pietrzyk, eds., 19th ed. 2005), available at <http://www.ctwoodlands.org/node/17>
67. STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION, *Connecticut Official State Tourism Map*.
68. National Audubon Society, *Connecticut Important Bird Areas*, available at <http://netapp.audubon.org/iba/state/US-CT>
69. United States Geological Survey, Connecticut Topographic Map Collection (Killingly), available at http://magic.lib.uconn.edu/topographic_maps.html

E. State Agency comments

1. Department of Transportation, dated August 17, 2016

F. Municipal comments

G. Telecommunications Carrier Comments

II. Appearance by Applicant

Applicant: Cellco Partnership d/b/a Verizon Wireless

Representative: Kenneth C. Baldwin, Esq.
Robinson & Cole LLP

A. Administrative Notice.

B. Exhibits for Identification.

1. Application for a Certificate of Environmental Compatibility and Public Need filed by Cellco Partnership d/b/a Verizon Wireless, received July 26, 2016, and attachments and bulk file exhibits including:

Bulk file exhibits:

- a. Technical Report to the Town of Killingly, dated December 1, 2015
 - b. Town of Killingly Zoning Regulations
 - c. Town of Killingly Inland Wetlands and Watercourses Regulations
 - d. Town of Killingly Plan of Conservation and Development
2. Applicant's Affidavit of Publication, dated August 8, 2016
 3. Applicant's Responses to Council Interrogatories, dated September 21, 2016
 4. Applicant's Sign Posting Affidavit, dated September 27, 2016

C. Swear Witnesses

1. Anthony Befera, Manager-Real Estate & Project Implementation, Cellco Partnership
2. Ray Luke Paradis, Radio Frequency Engineer, Cellco Partnership
3. Douglas J. Roberts, AIA, Hudson Design Group LLC
4. Michael Libertine, LEP, Director of Siting and Permitting, All-Points Technology Corp. P.C.
5. Dean Gustafson, Senior Wetland Scientist and Professional Soil Scientist, All-Points Technology Corp. P.C.

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

E. Cross Examination.

1. Council

III. Closing by Connecticut Siting Council.