



STATE OF CONNECTICUT

CONNECTICUT SITING COUNCIL

Ten Franklin Square, New Britain, CT 06051

Phone: (860) 827-2935 Fax: (860) 827-2950

E-Mail: siting.council@ct.gov

www.ct.gov/csc

VIA ELECTRONIC MAIL

September 7, 2016

Kenneth C. Baldwin, Esq.
Robinson & Cole LLP
280 Trumbull Street
Hartford, CT 06103-3597

RE: **DOCKET NO. 469** – Cellco Partnership d/b/a Verizon Wireless application for a Certificate of Environmental Compatibility and Public Need for the construction, maintenance, and operation of a telecommunications facility located at Killingly Tax Assessor's Map 143, Lot 6, 520 Bailey Hill Road, Killingly, Connecticut.

Dear Attorney Baldwin:

The Connecticut Siting Council (Council) requests your responses to the enclosed questions no later than September 21, 2016. To help expedite the Council's review, please file individual responses as soon as they are available.

Please forward an original and 15 copies to this office, as well as send a copy via electronic mail. In accordance with the State Solid Waste Management Plan and in accordance with Section 16-50j-12 of the Regulations of Connecticut State Agencies the Council is requesting that all filings be submitted on recyclable paper, primarily regular weight white office paper. Please avoid using heavy stock paper, colored paper, and metal or plastic binders and separators. Fewer copies of bulk material may be provided as appropriate.

Copies of your responses shall be provided to all parties and intervenors listed on the service list, which can be found on the Council's pending proceedings website.

Yours very truly,

Melanie Bachman
Acting Executive Director

MB/MP

c: Parties and Intervenors
Council Members

Docket No. 469
Pre-Hearing Questions
September 6, 2016
Set One

1. Of the letters sent to abutting property owners, how many certified mail receipts were received? If any receipts were not returned, which owners did not receive their notice? Were any additional attempts made to contact those property owners? For example, was a second notice provided by First Class Mail?
2. On page 8 of the Application, Cellco notes that the tower would be designed to accommodate a 20-foot increase in height. Would the foundation be designed accordingly?
3. Quantify the amounts of cut and fill that would be required to develop the proposed facility.
4. Would any blasting be required to develop the site, or would Cellco utilize other means such as mechanical chipping in the event that ledge is encountered?
5. Page 18 of the Application notes that the proposed facility would be located in the Federal Emergency Management Agency (FEMA) Zone X. Is this the "unshaded" Zone X, shown behind Tab 16 of the Application, as the area above the elevation of the 0.2 percent annual chance flood?
6. Why is the proposed equipment platform elevated above grade?
7. Would flush-mounted antennas or antennas attached to the tower at the proposed height via T-arms provide the required coverage? Would either configuration result in reduced coverage and/or necessitate greater antenna height with multiple levels of antennas? Explain.
8. What measures are proposed for the site to ensure security and deter vandalism?
9. Regarding the chain link fence, is it correct to say that two-inch mesh is a standard or typical size? Has Cellco considered either a smaller than two-inch mesh as an anti-climbing measure or two-inch mesh with anti-climb mesh material (or privacy slats) installed? If approved, could the final fence design be included in the Development and Management Plan (D&M Plan)?
10. According to the Federal Aviation Administration (FAA) Summary Report under Tab 17 of the Application, no notice to the FAA is required. Is any tower marking or lighting required?
11. Would Cellco initially provide service for all four frequency bands (i.e. 700 MHz, 850 MHz, 1900 MHz, and 2100 MHz) at the proposed facility, or would it deploy certain frequency bands initially and others in the future? Explain.
12. On Pages 8 and 9 of the Application, Cellco notes several of its existing sites in the vicinity of the proposed site. Identify those sites that would interact with the proposed facility?
13. Would all four frequency bands be used to transmit voice and data?
14. What is the lowest height at which Cellco's antennas could achieve its coverage objectives from the proposed site?
15. Could the required coverage and capacity upgrade needs be met by a series of small cell facilities or a distributed antenna system instead of the proposed macro tower facility?

16. In the Application, Cellco submitted existing propagation maps for all four frequency bands and proposed propagation maps for 700 MHz, 1900 MHz, and 2100 MHz. Provide the proposed propagation map for 850 MHz.
17. Similar to the proposed propagation maps, submit propagation maps for all four frequency bands (i.e. 700 MHz, 850 MHz, 1900 MHz, and 2100 MHz) assuming that the tower is ten feet shorter than proposed (i.e. antennas are installed at a centerline height of 140 feet above ground level).
18. What is the signal strength for which Cellco designs its system? For in-vehicle coverage? For in-building coverage? Provide this data for all four frequency bands.
19. What is the existing signal strength within the area Cellco is seeking to cover from this site for all four frequency bands?
20. Does Cellco have any statistics on dropped calls and/or ineffective attempts in the vicinity of the proposed facility? If so, what do they indicate? Does Cellco have any other indicators of substandard service in this area? If so, describe the results.
21. On page 7 of the Application, Cellco provided the proposed coverage areas in square miles for all four frequency bands. Provide such data assuming that the tower is ten feet shorter than proposed (i.e. antennas are installed at a centerline height of 140 feet above ground level).
22. Provide the individual lengths of the coverage gaps in miles for all main roads (e.g. roads with route numbers) that would be covered by the proposed facility for each of the four frequency bands.
23. Provide the individual lengths of the coverage gaps in miles for all secondary roads (e.g. roads without a route number) that would be covered by the proposed facility for each of the four frequency bands.
24. Provide an estimate of the residential population living within the area that would be covered from the proposed facility.
25. Provide an estimated traffic count for all main roads (e.g. roads with route numbers) that would be covered from the proposed facility.
26. Have any other wireless carriers expressed an interest in co-locating on the proposed facility to date? Has the Town of Killingly expressed an interest in co-locating emergency services antennas on the tower? Would Cellco provide space for municipal emergency services antennas if requested?
27. Is Cellco's proposed diesel backup generator for Cellco's use only?
28. How many gallons of fuel would the generator's diesel fuel tank hold?
29. Would the backup generator have containment measures to protect against fuel, oil, or coolant leakage? For example, would it have a double-walled fuel tank and a recessed floor under the engine compartment? If approved, could the final plans for containment measures be included in the D&M Plan?

30. What would be the respective run time for Cellco's diesel backup generator, assuming it is running at full load?
31. Would there be any interruption in service between the time power goes out and the generator starts, or would Cellco have a battery backup system that would provide "seamless" uninterrupted power? If Cellco has a battery backup system, how many hours of storage would the battery system have before the batteries are depleted? Or would the battery backup be the primary source of power with the generator acting to keep the batteries charged?
32. Would the backup generator run periodically for maintenance purposes, e.g. twenty minutes per week? If yes, could this be scheduled during daytime hours rather than nighttime hours?
33. Identify the safety standards and/or codes by which equipment, machinery, or technology would be used or operated at the proposed facility.
34. Will the proposed facility support text-to-911 service? Is additional equipment required for this purpose?
35. Are you aware of any Public Safety Answering Points in the area of the proposed site that are able to accept text-to-911?
36. Approximately how many residences would have year-round views of the tower? Approximately how many residences would have seasonal views of the tower? Generally, on which streets would these residences be located?
37. Is the majority of the year-round visibility area on the subject property?
38. Is the proposed project located within the The Last Green Valley National Heritage Area? If yes, how would the proposed project impact The Last Green Valley National Heritage Area?
39. To date, has Cellco received a response from the State Historic Preservation Office (SHPO) regarding the proposed project? If yes, provide a copy of such response.
40. Would the tower be located within a DEEP-designated Aquifer Protection Area?
41. On Sheet C-2, Cellco is proposing an overhead utility crossing of Bailey Hill Road. Has Cellco considered underground or "trenching" utilities across Bailey Hill Road (to reach the new pole) to reduce the visual impact? If approved, could the final utility route, subject to the electric distribution company, be included in the D&M Plan?
42. What, if any, stealth tower design options would be feasible to employ at this site?
43. Given the proposed "open canopy" equipment pad design instead of an enclosed equipment shelter, is it correct to say that no air conditioning units are required to keep the radio equipment cool? Does Cellco expect that the "open canopy" design with outdoor radio equipment would still meet DEEP noise standards at the property boundaries?