



STATE OF CONNECTICUT
CONNECTICUT SITING COUNCIL

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VIA ELECTRONIC MAIL

June 7, 2021

Thomas J. Regan, Esq.
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RE: **DOCKET NO. 503** - Arx Wireless Infrastructure, LLC application for a Certificate of Environmental Compatibility and Public Need for the construction, maintenance, and operation of a telecommunications facility located at 43 Osgood Avenue, New Britain, Connecticut.

Dear Attorney Regan:

The Connecticut Siting Council (Council) requests your responses to the enclosed questions no later than June 28, 2021.

Please submit an original and 15 copies to the Council's office and an electronic copy to siting.council@ct.gov. 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 requests 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.

Please be advised that the original and 15 copies are required to be submitted to the Council's office on or before the June 28, 2021 deadline.

Copies of your responses are required to be provided to all parties and intervenors listed in the service list, which can be found on the Council's website under the "Pending Matters" link.

Any request for an extension of time to submit responses to interrogatories shall be submitted to the Council in writing pursuant to §16-50j-22a of the Regulations of Connecticut State Agencies.

Sincerely,

s/Melanie Bachman

Melanie Bachman
Executive Director

MB/MP

c: Service List dated June 3, 2021

Docket No. 503
New Cingular Wireless PCS, LLC
Pre-Hearing Interrogatories
June 7, 2021

1. Estimate the total cost of New Cingular Wireless PCS, LLC's (AT&T) co-location on the proposed facility. Break down the total cost into categories that AT&T deems appropriate. Are these costs all separate and additional to the costs noted on pages 31 and 32 of the Application?
2. How would the cost of AT&T's co-location at the proposed site be recovered?
3. Referencing Attachment G of the Application, Sheet TR-2, provide the number of panel antennas and other equipment (e.g. remote radio heads) that AT&T would install at the 100-foot level of the tower.
4. What type of antenna mount would AT&T utilize for its proposed antennas? What is the structural design standard applicable to such antenna mount?
5. Referencing Attachment I of the Application, State Historic Preservation Office letter dated November 24, 2020, would AT&T's antenna mounts, antennas, and other tower-mounted equipment be painted to match the tower finish?
6. What measures would AT&T utilize at the site to ensure security and deter vandalism?
7. Pursuant to CGS §16-50p(a)(3)(G), identify the safety standards and/or codes by which equipment, machinery or technology that would be used or operated at the proposed facility by AT&T.

Coverage/Capacity

8. Provide existing coverage plots for each frequency band to be deployed by AT&T at the site. Provide a similar set of plots for each frequency band that include existing plus proposed coverage.
9. Referencing Attachment E of the Application, Radio Frequency Analysis Report (RF Report), page 8, would the proposed facility interact with all 8 of the neighboring sites depicted? Explain.
10. Referencing Attachment E of the Application, RF Report, page 7, provide the radial distances from the proposed facility to the neighboring sites identified as CT1104, CT2337, CT2585, CT5194, CT5255, and CT5403.
11. Would AT&T's proposed co-location be needed for coverage, capacity, or both? If the project is needed for capacity, please respond to the following:
 - a) What nearby AT&T wireless facilities (or sectors) are nearing capacity limits, and at what frequencies?
 - b) Please include a projected exhaustion date for each of these sectors.

- c) Would the deployment of the proposed facility be sufficient to address AT&T's capacity concerns or would an additional facility be required in the near term to off-load traffic?
12. Would all of AT&T's frequencies be used to transmit voice and data?
13. Would AT&T's proposed co-location at the proposed facility provide 5G services, or would new antennas and/or equipment be required to provide 5G service in the future? Explain.
14. Referencing Attachment J of the Application, AT&T notes that other frequencies would be deployed in addition to the 700 MHz frequency. Does the 700 MHz act as a "base frequency" of the network where most of the wireless traffic occurs? Were 700 MHz signal propagation **plots and data provided to be conservative because other (higher) frequencies can provide less** existing coverage area? How do the other frequencies interact in AT&T's wireless system?
15. Referencing Attachment E of the Application, Radio Frequency Analysis Report, p. 4, AT&T's proposed co-location would provide about 0.3 mile of incremental main roadway coverage. Provide a breakdown (by road) of the existing coverage gaps for the main roads (e.g. Farmington Avenue) and the proposed incremental coverage distances for those main roads based on each proposed frequency band.
16. What is the lowest height at which AT&T's antennas could achieve its wireless service objectives from the proposed site? What would be the consequences in terms of hand-off, coverage and/or capacity relief if the proposed tower was ten feet shorter, i.e. AT&T's antennas were located at a centerline height that is ten feet lower than proposed?
17. Would flush-mounted antennas provide the required coverage? Would the flush-mount configuration result in reduced coverage and/or necessitate greater antenna height with multiple levels of antennas? Explain.
18. What are the existing signal strengths for 700 MHz and other proposed frequency bands within the area AT&T is seeking to cover from this site?
19. Does AT&T have any statistics on dropped calls and/or ineffective attempts in the vicinity of the proposed facility? If so, what do they indicate? Does AT&T have any other indicators of substandard service in this area?

Backup power

20. Referencing Attachment G of the Application, Sheet TR-2, a backup generator is depicted. Is this generator for AT&T's own use? If yes, please respond to the following:
- a) What size is the backup generator in kilowatts?
- b) What is the fuel source for the backup generator?
- c) If fueled by propane, what measures would AT&T implement or employ to ensure an adequate supply of backup power for the site in the event of a propane fuel shortage?
- d) Would the backup generator have containment measures to protect against fluid leakage?

- e) What would be the run time for AT&T's backup generator before it requires refueling, assuming it is running at full load under normal conditions?
 - f) Would the backup generator run periodically for maintenance purposes? If so, at what frequency and duration? Would this be scheduled for daytime hours?
 - g) Would the backup generator be managed to comply with Regulations of Connecticut State Agencies Section 22a-174-3b?
21. Would a battery backup (if applicable) be used by AT&T to provide uninterrupted power and prevent a reboot condition? How long could the battery backup alone supply power to the facility in the event that the generator fails to start?

Public Safety

22. Would AT&T's proposed facility support text-to-911 service? Is additional equipment required for this purpose?
23. Would AT&T's antennas comply with federal E911 requirements?
24. Would AT&T's installation comply with the intent of the Warning, Alert and Response Network Act of 2006?
25. Would AT&T's proposed equipment at the proposed facility comply with Department of Energy and Environmental Protection noise control standards at the property boundaries?
26. Why was the proposed site selected for FirstNet deployment?
27. Describe the additional equipment necessary to operate FirstNet services.