

**STATE OF CONNECTICUT  
CONNECTICUT SITING COUNCIL**

**IN RE:**

A PETITION OF SBA COMMUNICATIONS :  
CORPORATION FOR A DECLARATORY : PETITION NO. 1461  
RULING ON THE NEED TO OBTAIN A SITING :  
COUNCIL CERTIFICATE FOR THE :  
REPLACEMENT AND RELOCATION OF A :  
TELECOMMUNICATIONS TOWER AT 130 :  
WELLES ROAD, GROTON, CONNECTICUT : OCTOBER 25, 2021

**RESPONSES OF INTERVENOR NEW CINGULAR WIRELESS PCS, LLC  
d/b/a AT&T TO CONNECTICUT SITING COUNCIL INTERROGATORIES -  
SET 1 DATED OCTOBER 12, 2021**

Q1. Indicate which frequency bands (e.g. 700, 850, 1900 and 2100 MHz) that New Cingular Wireless PCS, LLC (AT&T) would utilize to provide additional/improved coverage and/or capacity.

A1. *AT&T will utilize frequency bands 700 MHz, 850 MHz, 1900 MHz (PCS), 2100 MHz (AWS) and 2300 MHz (WCS) to provide coverage and capacity from the proposed installation.*

Q2. Would AT&T's revised co-location at 176 feet be used to provide 5G services? Explain.

A2. *Yes, AT&T delivers two types of 5G services:*

*AT&T 5G utilizes low-band spectrum (700 MHz, 850 MHz, 1900 MHz, 2100 MHz and 2300 MHz); and,*

*AT&T 5G+, which is broadband 5G, is delivered via millimeter wave spectrum (24 GHz to 39 GHz).*

*The antennas that will be installed at the will support 5G in the low-band spectrum but will not support the millimeter wave spectrum where broadband 5G+ operates. AT&T would need to install different antennas and/or equipment to provide broadband 5G+ services from this facility.*

Q3. Referencing page 3 of the Petition, AT&T would install nine panel antennas on a low-profile platform at the 176-foot level of the tower. How many remote radio heads or other tower-mounted equipment would be installed?

A3. *In addition to the antennas, AT&T will install twelve (12) remote radio heads, three (3) surge arrestors, six (6) DC lines and two (2) fiber lines.*

Q4. 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?

- A4. *The minimum antenna centerline height for AT&T to meet its coverage objectives is the proposed height of 176' above ground level. The table below details the loss in coverage from a ten-foot reduction in the antenna centerline height. While the losses are not drastic, AT&T's objective is to replicate as much of the coverage from the "original" Water Tank site as possible to restore customer experience to previous levels.*

Incremental Coverage 700 MHz LTE		Coverage at 176ft	Coverage at 166ft	Loss in Coverage (176ft- 166ft)
<b>Population Coverage:</b>	(≥ -93 dBm)	1782	1714	68 (3.8%)
<b>Business Pop Coverage:</b>	(≥ -93 dBm)	961	942	19 (2%)
<b>Area Covered (mi<sup>2</sup>):</b>	(≥ -93 dBm)	3.82	3.62	0.20 (5.2%)
<b>Roadway Coverage (mi):</b>	(≥ -93 dBm)	16.66	16.10	0.56 (3.4%)

- Q5. Approximately how many hours of run time based on full load and the fuel tank capacity is provided by AT&T's existing backup generator?
- A5. *AT&T's existing generator at the site is a Polar 15kW, Model 8220-100-D-15-03, diesel generator which holds 54 gallons of fuel and could run for approximately 90 hours before refueling is required.*
- Q6. Does or would AT&T have battery backup to prevent a reboot condition during the generator start-up delay period? If yes, how long could the battery backup provide power if the generator fails to start?
- A6. *Yes, AT&T has existing battery backup which should provide approximately eight (8) hours of power in the event the generator fails to start.*
- Q7. Estimate AT&T's total equipment and equipment installation cost.
- A7. *AT&T estimates its materials will cost approximately \$46,000 and labor costs will be approximately \$88,000.*
- Q8. Provide the estimated dates for commencement and completion of construction. Also provide the proposed work hours and days of the week.
- A8. *If approved, AT&T intends to install its facility during 2022 and estimates a construction period of four (4) weeks once the monopole is extended. AT&T proposes to install the facility on weekdays during normal business hours, 8:00 am – 5:00 pm.*

**CERTIFICATE OF SERVICE**

I hereby certify that on this day, October 25, 2021, an electronic copy of the foregoing was sent to the Connecticut Siting Council and the Service List dated September 9, 2021.

/s/ Thomas Regan\_\_\_\_\_

Thomas J. Regan, Esq.