

STATE OF CONNECTICUT
CONNECTICUT SITING COUNCIL

IN RE: :
: :
APPLICATION OF HOMELAND TOWERS, : DOCKET NO. 509
LLC AND NEW CINGULAR WIRELESS :
PCS, LLC FOR A CERTIFICATE OF :
ENVIRONMENTAL COMPATIBILITY :
AND PUBLIC NEED FOR THE :
CONSTRUCTION, MAINTENANCE AND :
OPERATION OF A WIRELESS TELE- :
COMMUNICATIONS FACILITY :
LOCATED AT 1837 PONUS RIDGE ROAD, :
NEW CANAAN, CONNECTICUT : JUNE 13, 2022

**RESPONSES OF CELLCO PARTNERSHIP D/B/A VERIZON WIRELESS TO
CONNECTICUT SITING COUNCIL PRE-HEARING INTERROGATORIES-SET TWO**

On June 9, 2022, the Connecticut Siting Council (“Council”) issued Pre-Hearing Interrogatories-Set Two to Cellco Partnership d/b/a Verizon Wireless (“Cellco”), relating to Petition No. 509. Below are Cellco’s responses.

Question No. 20

Provide a power density analysis including, but not limited to, the following: number of channels per sector for each antenna system that would be installed on the proposed tower; ERP per channel for each antenna system; frequency at which each antenna system would operate. (Indicate if a -10dB adjustment to account for antenna pattern is included in the analysis).

Response

Attached is a Cumulative Power Density Table demonstrating that the proposed Cellco installation will comply with the FCC’s maximum permissible exposure guidelines.

Question No. 21

Is the backup power generator typically tested to ensure proper operation? If yes, at what interval and for how long? Is it possible to set automated testing to a specific time, for instance during midday, Monday through Friday?

Response

Yes, the backup generator is typically “exercised” for about 20 minutes, once or twice a month to ensure it is operating properly. All generator operations are monitored and controlled remotely by Cellco’s wireless operations technicians. Cellco can schedule the automated exercise period for any time but it typically occurs on a weekday, in the late morning to avoid impacting any neighbors.

CERTIFICATE OF SERVICE

I hereby certify that on the 13th day of June, 2022, a copy of the foregoing was sent, via electronic mail, to:

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Site Name: New Canaan NW CT
Cumulative Power Density

Operator	Operating Frequency (MHz)	Number of Trans.	ERP Per Trans. (watts)	Total ERP (watts)	Distance to Target (feet)	Calculated Power Density (mW/cm ²)	Maximum Permissible Exposure* (mW/cm ²)	Fraction of MPE (%)
VZW 700	751	4	1396	5584	95	0.0223	0.5007	4.44%
VZW CDMA	877.26	0	497	0	95	0.0000	0.5848	0.00%
VZW Cellular	874	4	881	3523	95	0.0140	0.5827	2.41%
VZW PCS	1980	4	2370	9481	95	0.0378	1.0000	3.78%
VZW AWS	2120	4	3054	12214	95	0.0487	1.0000	4.87%
VZW CBAND	3730.08	2	21627	43254	95	0.1724	1.0000	17.24%
Total Percentage of Maximum Permissible Exposure								32.73%

*Guidelines adopted by the FCC on August 1, 1996, 47 CFR Part 1 based on NCRP Report 86, 1986 and generally on ANSI/IEEE C95.1-1992
 **Calculation includes a -10 dB Off Beam Antenna Pattern Adjustment pursuant to Attachments B and C of the Siting Council's November 10, 2015 Memorandum for Exempt Modification filings

MHz = Megahertz
 mW/cm² = milliwatts per square centimeter
 ERP = Effective Radiated Power
 Absolute worst case maximum values used.