

STATE OF CONNECTICUT
CONNECTICUT SITING COUNCIL

IN RE: :
: :
APPLICATION OF T-MOBILE NORTHEAST, : DOCKET NO. 391
LLC FOR A CERTIFICATE OF : :
ENVIRONMENTAL COMPATIBILITY AND : :
PUBLIC NEED FOR THE CONSTRUCTION, : :
MAINTENANCE AND OPERATION OF A : :
WIRELESS TELECOMMUNICATIONS : :
FACILITY AT 232 SHORE ROAD, OLD : :
LYME, CONNECTICUT : JANUARY 28, 2010

SUPPLEMENTAL RESPONSE OF CELLCO PARTNERSHIP D/B/A VERIZON WIRELESS
TO CONNECTICUT SITING COUNCIL PRE-HEARING INTERROGATORIES NO. 12

On December 23, 2009, the Connecticut Siting Council (“Council”) issued Pre-Hearing Interrogatories to the Intervenor, Cellco Partnership d/b/a Verizon Wireless (“Cellco”), relating to the above-captioned docket. Cellco’s responses were filed with the Council on January 6, 2010. Below is Cellco’s supplemental response to Council Interrogatory No. 12.

Question No. 12

Provide the following information: number of channels per sector for each antenna system that would be installed on the proposed tower, ERP per channel for each antenna system, and frequency at which each antenna system would operate. Also, provide a power density analysis of Cellco’s proposed antennas to determine the worst-case percent maximum permissible exposure at the tower base.

Response

PCS Antennas

Alpha Sector – 90 ft.

Antenna Type: BXA –
185080/12CF (1)

Frequency: Tx: 1965-
1980,1945-1950 MHz; Rx:
1885-1900,1865-1870 MHz

No. Channels: 14

ERP/Channel: 341.48 W Max

Beta Sector – 90 ft.

Antenna Type: BXA –
185063/12CF (1)

Frequency: Tx: 1965-
1980,1945-1950 MHz; Rx:
1885-1900,1865-1870 MHz

No. Channels: 14

ERP/Channel: 482.35 W Max

Gamma Sector – 90 ft.

Antenna Type: BXA –
185080/12CF (1)

Frequency: Tx: 1965-
1980,1945-1950 MHz; Rx:
1885-1900,1865-1870 MHz

No. Channels: 14

ERP/Channel: 341.48 W Max

Cellular Antennas

Alpha Sector – 90 ft.

Antenna Type: LPA-
80080/6CF (2)

Frequency: Tx: 869-880,890-
891.5 MHz; Rx: 824-835,
845-846.5 MHz

No. Channels: 9

ERP/Channel: 359.39 W Max

Beta Sector – 90 ft.

Antenna Type: LPA-
80063/6CF (2)

Frequency: Tx: 869-880,890-
891.5 MHz; Rx: 824-835,
845-846.5 MHz

No. Channels: 9

ERP/Channel: 403.25 W Max

Gamma Sector – 90 ft.

Antenna Type: LPA-
80080/6CF (2)

Frequency: Tx: 869-880,890-
891.5 MHz; Rx: 824-835, 845-
846.5 MHz

No. Channels: 9

ERP/Channel: 359.39 W Max

LTE Antennas

Alpha Sector – 90 ft.

Antenna Type: BXA–
70063/6CF (1)

Frequency: Tx:746 – 757
MHz; Rx: 776-787 MHz

No. Channels: 1

ERP/Channel: 825.05 W Max

Beta Sector – 90 ft.

Antenna Type: BXA–
70063/6CF (1)

Frequency: Tx:746 – 757
MHz; Rx: 776-787 MHz

No. Channels: 1

ERP/Channel: 825.05 W Max

Gamma Sector – 90 ft.

Antenna Type: BXA–
70063/6CF (1)

Frequency: Tx:746 – 757
MHz; Rx: 776-787 MHz

No. Channels: 1

ERP/Channel: 825.05 W Max

Supplemental Response

Also attached is a worst-case general power density calculation for Celco antennas as requested.


CERTIFICATE OF SERVICE

I hereby certify that on the 28th day of January, 2010, a copy of the foregoing was sent,
postage prepaid, to:

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The Honorable Timothy C. Griswold
First Selectman
Town of Old Lyme
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Kenneth C. Baldwin

General Power Density

Site Name: Soundview, 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 PCS	1970	3	437	1311	90	0.0582	1.0	5.82%
VZW Cellular	869	9	390	3510	90	0.1558	0.579333	26.90%
VZW 700	757	1	794	794	90	0.0353	0.497333	7.09%

Total Percentage of Maximum Permissible Exposure

39.81%

*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

MHz = Megahertz

mW/cm² = milliwatts per square centimeter

ERP = Effective Radiated Power

Absolute worst case maximum values used.