

STATE OF CONNECTICUT
CONNECTICUT SITING COUNCIL

IN RE: :
 :
APPLICATION OF CELLCO PARTNERSHIP : DOCKET NO. 400
D/B/A VERIZON WIRELESS FOR A :
CERTIFICATE OF ENVIRONMENTAL :
COMPATIBILITY AND PUBLIC NEED FOR :
THE CONSTRUCTION, MAINTENANCE :
AND OPERATION OF A WIRELESS :
TELECOMMUNICATIONS FACILITY AT :
343 DALEVILLE ROAD, WILLINGTON, :
CONNECTICUT : MAY 4, 2010

RESPONSES OF CELLCO PARTNERSHIP d/b/a VERIZON WIRELESS
TO CONNECTICUT SITING COUNCIL PRE-HEARING INTERROGATORIES

On April 14, 2010, the Connecticut Siting Council (“Council”) issued Pre-Hearing Interrogatories to Applicant, Cellco Partnership d/b/a Verizon Wireless (“Cellco”), relating to the above-captioned docket. Below are Cellco’s responses.

Question No. 1

Did Cellco receive return receipts for all adjacent landowners listed in Application Attachment 5? If not, describe any additional effort to serve notice.

Response

Cellco received return receipts from all but one of the adjacent landowners listed in the Application. Cellco did not receive a return receipt from ING US STUDENTS NO. 7 LLC. While Cellco did not receive a return receipt from this owner, it also did not receive the letter back from the U.S. Postal Service marked in a way that would indicate some problem with the delivery (e.g. “Unclaimed” or “Undeliverable”). In an excess of caution, Cellco resent a copy of the notice letter to ING US STUDENTS NO. 7 LLC, by regular mail on April 16, 2010.

Question No. 2

Referring to the Sites Investigated section of the Site Search Summary, identify the person(s) whom Cellco attempted to contact for properties 3, 4 and 5. When did Cellco inquire about these properties?

Response

Cellco's real estate representative attempted to contact the owners of the three parcels identified, first by U.S. Mail and then by telephone. The owner of the Boston Turnpike parcel (Map 2, Lot 14A) is Helen Fish; the owner of the 85-87 Old Turnpike Road parcel is Homeworks Properties LLC; and the owner of the 53 Old Turnpike Road parcel is Greg Cichowski, one of the abutting landowners listed behind Tab 5 of the application. Letters of interest were sent to each of these home owners at the time of the original site search in June 2007.

Question No. 3

Would blasting be required for the construction of the proposed site? Provide estimates of cut and fill.

Response

Cellco does not anticipate the need for blasting to construct the proposed facility. A geotechnical survey will be completed if the site is approved and submitted to the Council as a part of the D&M Plan. Cellco estimates that site construction will require a total cut of approximately 300 c.y. of material and a total fill of approximately 780 c.y. of material.

Question No. 4

What is Cellco's minimum signal level threshold for in-building and in-vehicle use?

Response

Cellco's coverage thresholds are -85 dBm for reliable in-vehicle service and -75 dBm for reliable in-building service.

Question No. 5

What is the current signal strength in the proposed service area?

Response

Existing signal strength in this area ranges from -86 dBm to -101 dBm.

Question No. 6

Provide a coverage plot, using the scale and thresholds in Application Attachment 7, that depict cellular and PCS coverage from existing/approved Cellco sites and the proposed tower at a height of 87 feet.

Response

The coverage plots requested are included in Attachment 1. At 87 feet, Cellco can still satisfy its cellular coverage objectives. At PCS frequencies, however, coverage gaps totaling .42 miles along Route 44 remain when Cellco antennas are located at the 87-foot level.

Question No. 7

Describe how the cellular and PCS systems interrelate.

Response

As its technology evolves over the next several years, Cellco expects that its current cellular and PCS systems together with its new LTE (700 MHz) system will provide its customers with advanced wireless services throughout its network in Connecticut and nationwide. Each of these wireless systems will provide customers with advanced voice and data

services including but not limited to high speed wireless internet access, video downloads and mobile television in addition to the more traditional voice and data (text and e-mail) services Cellco customers enjoy today. Cellco expects that all three wireless systems will interact as one integrated unit providing a broad range of advanced wireless services.

As has been discussed in prior Council dockets, customers seeking to use the Cellco network will be directed to a particular channel from a particular cell site in the coverage area where the customer is located. Depending upon the availability of a channel, a wireless call would, in all likelihood, be directed to an available cellular channel first. If no cellular channel is available at a particular cell site the call would search for and initiate on a PCS channel in the same area. If a customer is traveling while making a call, a call in progress would be “handed-off” from one cell to the next. Again, depending upon availability of channels on the adjacent cell site, a call that starts on Cellco’s cellular network would first attempt to hand-off to another cellular channel, if one is available. If a channel is not available, the system is designed to hand-off that call to either a PCS or, in the future, an LTE (700 MHz) channel. Provided Cellco maintains reliable signal strength in a particular area and adequate overlap of signal between cell sites, the network will allow for the hand-off of call between cell sites at all of the available wireless frequencies deployed at those cell sites, without interruption.

Question No. 8

Provide the methodology and input parameters used to obtain the power density figure presented on page 16 of the application.

Response

The power density figures presented in the application were developed using the formula

established by the FCC. The input parameters used are set forth in the table included in Attachment 2.

Question No. 9

The nearest off-site residence is listed in the application as the Willey residence, 780 feet to the west. What is the distance to the abutting Cichowski residence?

Response

Upon further review, project engineers have concluded that the Cichowski residence is located 680 feet to the south of the tower site and is, therefore, the closest residence to the tower site.

Question No. 10

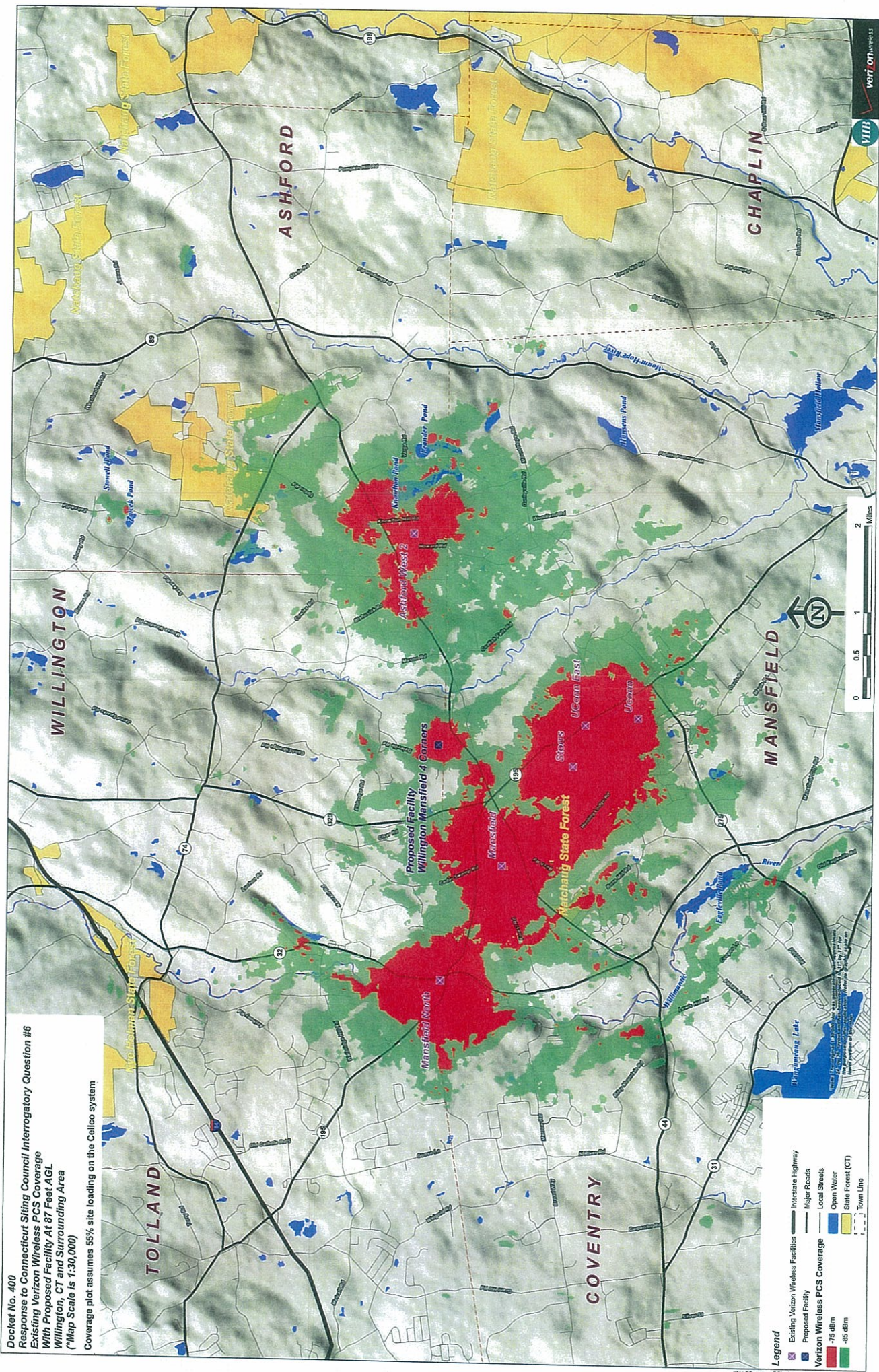
The visibility analysis states five residences would have partial, year round views of the tower. Provide the addresses of these properties.

Response

The Visual Resource Evaluation Report included behind Tab 10 of the Application states that “VHB estimates that select portions of approximately five residential properties may have at least partial year-round views of the proposed Facility.” This does not necessarily mean that views exist from the homes (residences) on those residential parcels. Also, this estimate is a very conservative approximation based on available mapping data and field reconnaissance. That said, the five residential parcels referred to in the visual report include properties located at 313, 315, 325 and 67 Daleville Road and 185 Old Turnpike Road, south of Route 44. An aerial photograph showing the location of these five residential parcels is included in Attachment 3.

TAB 1

Docket No. 400
 Response to Connecticut Siting Council Interrogatory Question #6
 Existing Verizon Wireless PCS Coverage
 With Proposed Facility At 87 Feet AGL
 Willington, CT and Surrounding Area
 (*Map Scale is 1:30,000)
 Coverage plot assumes 55% site loading on the Celco system



TAB 2

General Power Density

Site Name: Mansfield Four Corners, 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	97	0.0501	1.0	5.01%
VZW Cellular	869	9	397	3573	97	0.1366	0.579333	23.57%
VZW 700	757	1	891	891	97	0.0341	0.497333	6.85%
Total Percentage of Maximum Permissible Exposure								35.43%

*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.

TAB 3

**Aerial Photograph
Proposed Verizon Telecommunications Facility
And Surrounding Area
Willington, Connecticut**



verizon.com