

STATE OF CONNECTICUT  
CONNECTICUT SITING COUNCIL

IN RE: :  
: :  
APPLICATION OF NEW CINGULAR : DOCKET NO. 442  
WIRELESS PCS, LLC (AT&T) FOR A :  
CERTIFICATE OF ENVIRONMENTAL :  
COMPATIBILITY AND PUBLIC NEED FOR :  
THE CONSTRUCTION, MAINTENANCE AND :  
OPERATION OF A TELECOMMUNICATIONS :  
FACILITY AT THE CONNECTICUT STATE :  
ARMORY SITE AT 284 NEW CANAAN :  
AVENUE (STATE ROUTE 123) NORWALK, :  
CONNECTICUT : FEBRUARY 20, 2014

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

On January 29, 2014, the Connecticut Siting Council (“Council”) issued Post-Hearing questions to Cellco Partnership d/b/a Verizon Wireless (“Cellco”), relating to the above-captioned docket. Below are Cellco’s responses. Cellco identifies this facility as its “Norwalk 3 cell site”.

Question No. 1

At the proceeding on December 19, 2013, Cellco stated the unipole diameter needed to be a minimum of 42 inches to accommodate Cellco’s antennas. It was further explained that additional space would be needed to accommodate remote radio heads behind the antennas. What unipole diameter would be necessary to accommodate this equipment.

Response

As discussed at the hearing, the 42 inch diameter unipole would be adequate to accommodate Cellco’s antennas, antenna mounting brackets and antenna cables. Installing remote radio heads (“RRHs”) and the accompanying electric distribution box (“EDB”) inside the unipole would require the diameter of the pole to increase from 42” to a minimum of 47”. This

assumes that the RRHs and EDB are mounted below the antennas. This configuration, however, would require the EDB to be mounted below the 10' horizontal antenna section reserved for Cellco's use. In order to get the antennas, RRHs and EDB into a single 10' horizontal antenna section, the RRHs would have to be located behind the antennas and the diameter of the unipole would expand to 56". (See attached schematic drawing).

#### Question No. 2

Can the radio heads be mounted on a collar immediately below the antennas so that the 42 inch unipole diameter can be maintained? If so, describe the effectiveness of the units.

#### Response

See Response to Question No. 1.

#### Question No. 3

How is service compromised if radio heads are not included at this site?

#### Response

If RRHs cannot be installed at the proposed Norwalk tower site Cellco's would need to accept several wireless service compromises. RRHs enhance base station performance by improving the signal quality and strength within the footprint of the site and can actually expand the coverage from the cell site. In this case, where the existing cell sites in the area are further apart, Cellco's ability to expand its coverage footprint from the proposed Norwalk site will enhance service in the area and the customer's overall experience. By using RRHs Cellco can also eliminate the need for bulky and numerous antenna cables (generally two cables per antenna). In their place Cellco would install new fiber optic cables, generally needing only one or two for the entire site. This eliminates the signal losses associated with non-fiber coaxial

cables, further improving service from the cell site.

CELLCO PARTNERSHIP d/b/a VERIZON  
WIRELESS

By 

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**CERTIFICATION OF SERVICE**

I hereby certify that on this 20<sup>th</sup> day of February, 2013, a copy of the foregoing was sent,  
via U.S. Mail and electronic mail, to the following:

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