

# STATE OF CONNECTICUT

## CONNECTICUT SITING COUNCIL

Ten Franklin Square, New Britain, CT 06051

Phone: (860) 827-2935 Fax: (860) 827-2950

E-Mail: [siting.council@po.state.ct.us](mailto:siting.council@po.state.ct.us)

[www.ct.gov/csc](http://www.ct.gov/csc)

July 21, 2005

Kenneth C. Baldwin, Esq.  
Robinson and Cole LLP  
280 Trumbull Street  
Hartford, CT 06103-3597

RE: **EM-VER-025-050617** – Cellco Partnership d/b/a Verizon Wireless notice of intent to modify an existing telecommunications facility located at 500 Highland Avenue, Cheshire, Connecticut.

Dear Attorney Baldwin:

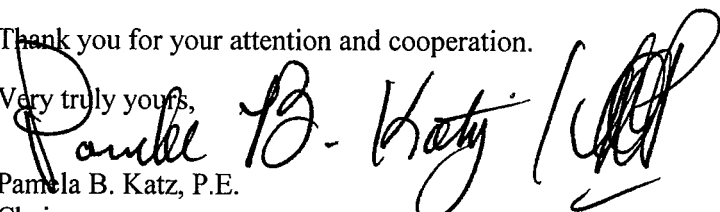
At a public meeting held on July 20, 2005, the Connecticut Siting Council (Council) acknowledged your notice to modify this existing telecommunications facility, pursuant to Section 16-50j-73 of the Regulations of Connecticut State Agencies.

The proposed modifications are to be implemented as specified here and in your notice dated June 17, 2005, including the placement of all necessary equipment and shelters within the tower compound. The modifications are in compliance with the exception criteria in Section 16-50j-72 (b) of the Regulations of Connecticut State Agencies as changes to an existing facility site that would not increase tower height, extend the boundaries of the tower site, increase noise levels at the tower site boundary by six decibels, and increase the total radio frequencies electromagnetic radiation power density measured at the tower site boundary to or above the standard adopted by the State Department of Environmental Protection pursuant to General Statutes § 22a-162. This facility has also been carefully modeled to ensure that radio frequency emissions are conservatively below State and federal standards applicable to the frequencies now used on this tower.

This decision is under the exclusive jurisdiction of the Council. Please be advised that the validity of this action shall expire one year from the date of this letter. Any additional change to this facility will require explicit notice to this agency pursuant to Regulations of Connecticut State Agencies Section 16-50j-73. Such notice shall include all relevant information regarding the proposed change with cumulative worst-case modeling of radio frequency exposure at the closest point of uncontrolled access to the tower base, consistent with Federal Communications Commission, Office of Engineering and Technology, Bulletin 65. Any deviation from this format may result in the Council implementing enforcement proceedings pursuant to General Statutes § 16-50u including, without limitation, imposition of expenses resulting from such failure and of civil penalties in an amount not less than one thousand dollars per day for each day of construction or operation in material violation.

Thank you for your attention and cooperation.

Very truly yours,

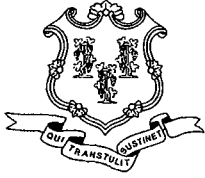
  
Pamela B. Katz, P.E.  
Chairman

PBK/jkl

c: The Honorable Thomas Stretton, Council Chairman, Town of Cheshire  
Richard A. Pfurr, Town Planner, Town of Cheshire  
Michael A. Milone, Town Manager, Town of Cheshire  
Cheshire Police Department  
Thomas J. Regan, Esq., Brown Rudnick Berlack Israels LLP  
Christine Farrell, T-Mobile  
Christopher B. Fisher, Esq., Cuddy & Feder LLP

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# STATE OF CONNECTICUT

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[www.ct.gov/csc](http://www.ct.gov/csc)

June 17, 2005

The Honorable Thomas Stretton  
Council Chairman  
Town of Cheshire  
84 South Main Street  
Cheshire, CT 06410

RE: **EM-VER-025-050617** – Cellco Partnership d/b/a Verizon Wireless notice of intent to modify an existing telecommunications facility located at 500 Highland Avenue, Cheshire, Connecticut.

Dear Mr. Stretton:

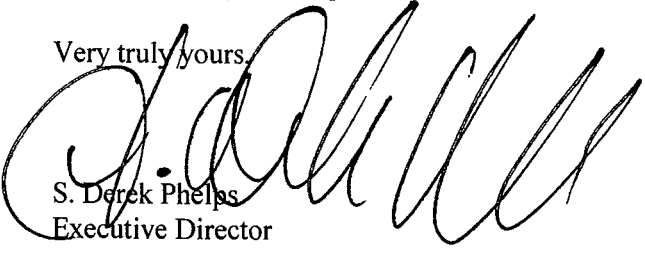
The Connecticut Siting Council (Council) received this request to modify an existing telecommunications facility, pursuant to Regulations of Connecticut State Agencies Section 16-50j-72.

The Council will consider this item at the next meeting scheduled for July 20, 2005 at 1:30 p.m. in Hearing Room Two, Ten Franklin Square, New Britain, Connecticut.

If you have any questions or comments regarding this proposal, please call me or inform the council by July 19, 2005.

Thank you for your cooperation and consideration.

Very truly yours,

  
S. Derek Phelps  
Executive Director

SDP/jkl

Enclosure: Notice of Intent

c: Richard A. Pfurr, Town Planner, Town of Cheshire  
Michael A. Milone, Town Manager, Town of Cheshire

280 Trumbull Street  
Hartford, CT 06103-3597  
Main (860) 275-8200  
Fax (860) 275-8299  
kbaldwin@rc.com  
Direct (860) 275-8345

June 17, 2005

EM-VER-025-050617

*Via Hand Delivery*

S. Derek Phelps  
Executive Director  
Connecticut Siting Council  
10 Franklin Square  
New Britain, CT 06051

RECEIVED  
JUN 17 2005  
CONNECTICUT  
SITING COUNCIL

Re: **Notice of Exempt Modification**  
**500 Highland Avenue**  
**Cheshire, Connecticut**

Dear Mr. Phelps:

Cellco Partnership d/b/a Verizon Wireless ("Cellco") intends to install antennas on the existing 160-foot monopole tower owned by the Town of Cheshire at 500 Highland Avenue in Cheshire, Connecticut. Please accept this letter as notification pursuant to R.C.S.A. § 16-50j-73, for construction that constitutes an exempt modification pursuant to R.C.S.A. § 16-50j-72(b)(2). In accordance with R.C.S.A. § 16-50j-73, a copy of this letter is being sent to Town Manager, Michael A. Milone.

The facility consists of a 160-foot self-supporting monopole tower capable of supporting multiple carriers within a fenced compound at the Cheshire Police Station, 500 Highland Avenue in Cheshire. The tower is owned by The Town of Cheshire and is currently shared by the Town, at various levels; Sprint at the 157.5-foot level; T-Mobile at the 147.5-foot level; AT&T at the 137.5-foot level; Cingular at the 127.5-foot level; and Nextel at the 107.5-foot level on the tower. Cellco proposes to install twelve (12) panel-type antennas at the 117.5-foot level on the tower and a 12' x 30' single-story equipment shelter near the base of the tower within the fenced site compound. Attached behind Tab 1 are Project Plans for the proposed Cellco facility.

The planned modifications to the Cheshire facility fall squarely within those activities explicitly provided for in R.C.S.A. § 16-50j-72(b)(2).



*Law Offices*

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HART1-1260726-1

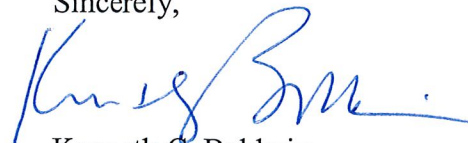
S. Derek Phelps  
June 17, 2005  
Page 2

1. The proposed modification will not increase the overall height of the existing tower. Cellco's antennas will be mounted with their centerline at the 117.5-foot level on the 160-foot tower.
2. The proposed installation of a 12' x 30' equipment shelter will not require an extension of the fenced compound or lease area.
3. The proposed antenna modification will not increase the noise levels at the facility by six decibels or more.
4. The operation of the antennas will not increase radio frequency (RF) power density levels at the facility to a level at or above the Federal Communications Commission (FCC) adopted safety standard. The worst-case RF power density calculations for the proposed Cellco antennas would be 9.66% of the FCC standard. A copy of the general power density calculations table is attached behind Tab 2.

Also attached, behind Tab 3, is a structural letter confirming that the tower can support the existing and proposed antennas and associated equipment.

For the foregoing reasons, Cellco respectfully submits that the proposed antenna installation at the facility constitutes an exempt modification under R.C.S.A. § 16-50j-72(b)(2).

Sincerely,



Kenneth C. Baldwin

Attachments

cc: Michael A. Milone, Town Manger  
Sandy M. Carter

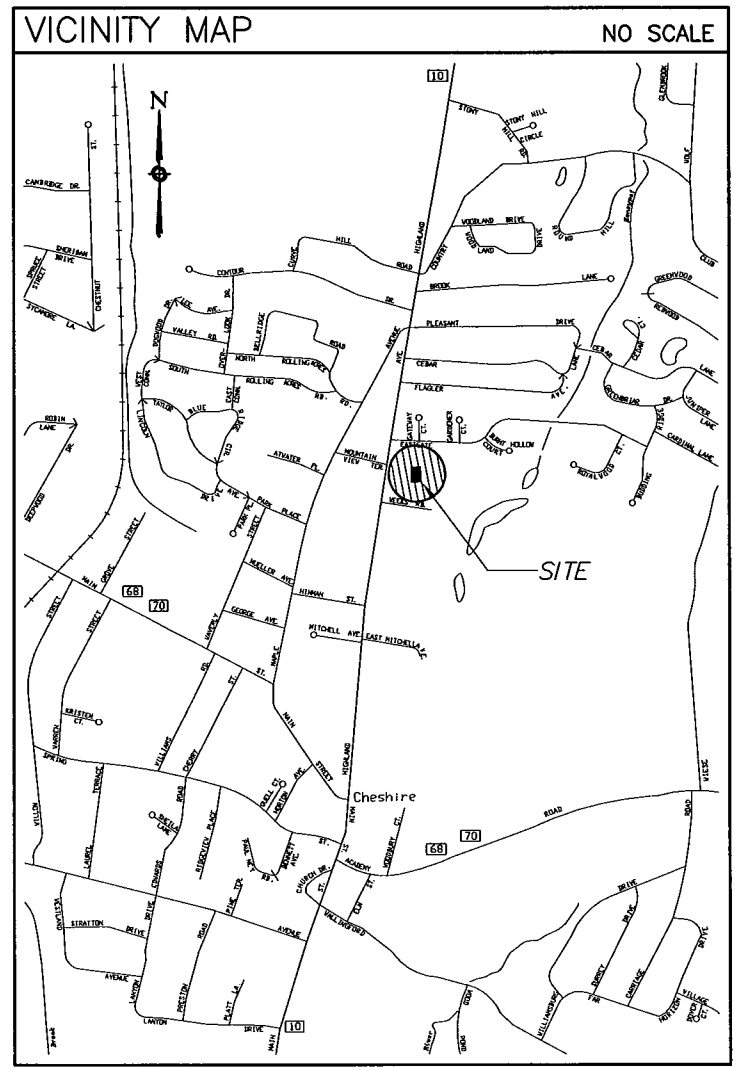


# CELLCO PARTNERSHIP DBA



# CHESHIRE

## HIGHLAND AVENUE/ROUTE 10 CHESHIRE, CONNECTICUT



PROJECT SUMMARY	
SITE NAME:	CHESHIRE
SITE ADDRESS:	HIGHLAND AVENUE/ROUTE 10 CHESHIRE, CONNECTICUT
CONTACT PERSON:	CELLCO PARTNERSHIP DBA VERIZON WIRELESS SANDY CARTER (860) 803-8219
GOVERNING CODE:	CONNECTICUT STATE BUILDING AND LIFE SAFETY CODE
APPLICANT:	CELLCO PARTNERSHIP DBA VERIZON WIRELESS 99 EAST RIVER DRIVE EAST HARTFORD, CT 06108
ARCHITECT:	URS CORPORATION A.E.S. 500 ENTERPRISE DRIVE ROCKY HILL, CT 06067
SURVEY:	URS CORPORATION A.E.S. 500 ENTERPRISE DRIVE ROCKY HILL, CT 06067

LEGEND	
SYMBOL	DESCRIPTION
	SECTION OR DETAIL NUMBER SHEET WHERE DETAIL/SECTION OCCURS
	ELEVATION NUMBER SHEET WHERE ELEVATION OCCURS

ABBREVIATIONS	
MIN.	MINIMUM
V.I.F.	VERIFY IN FIELD
O.C.	ON CENTER
PSF	POUND/SQUARE FOOT
TYP.	TYPICAL
TOC	TOP OF CONCRETE
TOW	TOP OF WALL

SHEET INDEX	
SHT. NO.	DESCRIPTION
T-1	TITLE SHEET - GENERAL NOTES AND LEGENDS
SC-1	SITE PLAN AND TOWER ELEVATION

CELLCO PARTNERSHIP  
DBA

A&E FIRM  
**URS CORPORATION A/E/S**  
500 ENTERPRISE DRIVE  
SUITE 3B  
ROCKY HILL, CONNECTICUT  
1-(860)-529-8882

A&E SEAL

PROJECT NO: 36930743

JOB NO: VZ1-140

DRAWN BY: CRS

CHECKED BY:

ISSUED FOR	
5-23-05	SITING COUNCIL REVIEW
5-27-05	SITING COUNCIL

THE INFORMATION CONTAINED IN THIS SET OF DOCUMENTS IS PROPRIETARY BY NATURE. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO VERIZON WIRELESS IS STRICTLY PROHIBITED.

CHESHIRE  
HIGHLAND AVENUE/ROUTE 10  
CHESHIRE, CONNECTICUT

SCALE: AS NOTED

TITLE SHEET-  
GENERAL NOTES  
AND LEGEND

T-1



General Power Density

Site Name: Cheshire NE

Tower Height: 117.5 ft rad center

Operator	Operating Frequency (MHz)	Number of Trunks	ERP Per Trunk (watts)	Total ERP (watts)	Distance to Target (feet)	Calculated Power Density (mW/cm <sup>2</sup> )	Maximum Permissible Exposure (mW/cm <sup>2</sup> )	Fraction of MPE (%)
Verizon	869	9	200	1800	117.5	0.0469	0.5793	8.09%
Verizon	1900	3	200	600	117.5	0.0156	1	1.56%
<b>Total Percentage of Maximum Permissible Exposure</b>								<b>9.66%</b>

\*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/cm<sup>2</sup> = milliwatts per square centimeter

ERP = Effective Radiated Power

Absolute worst case scenario, maximum values used.





April 15, 2005

Guyed and Self-Supporting Towers, Monopoles,  
HF Antenna Systems and Turnkey Installations

Mr. Chris Ciolfi  
GRIDCOM  
374 South Street  
Suite 202  
Pittsfield, MA 01201

Ref.: 160' monopole at Cheshire Police, CT (Sabre #05-04141)

Dear Mr. Ciolfi,

As shown in our Structural Design Report #04-09077 dated September 12, 2003, the above referenced monopole and foundation were designed for a basic wind speed of 85 mph and 1/2" radial ice, in accordance with ANSI/TIA/EIA 222-F. They were designed to support the following equipment:

1. Nine (9) 20' whip antennas on three (3) 10' T-Arms at 160', with nine (9) 7/8" lines
2. Twelve (12) Allgon 58000 antennas on a 12' L.P. platform at 157.5', with twelve (12) 1-5/8" lines
3. Twelve (12) 5' x 1' panel antennas on a 12' L.P. platform at 147.5', with twelve (12) 1-5/8" lines
4. Twelve (12) 5' x 1' panel antennas on a 12' L.P. platform at 137.5', with twelve (12) 1-5/8" lines
5. Twelve (12) DB844H90 antennas on a 12' L.P. platform at 127.5', with twelve (12) 1-5/8" lines
6. Twelve (12) DB844H90 antennas on a 12' L.P. platform at 117.5', with twelve (12) 1-5/8" lines
7. Twelve (12) DB844H90 antennas on a 12' L.P. platform at 107.5', with twelve (12) 1-5/8" lines

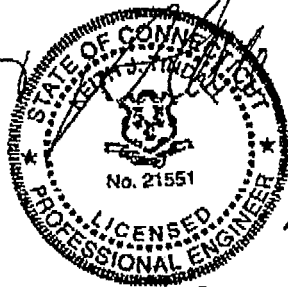
The current request is for the monopole and foundation to support **only** the following:

1. One (1) Decibel UHF antenna, one (1) VHF Station Master antenna, one (1) ground plane antenna, one (1) VHF dipole antenna and one (1) yagi antenna on three (3) 2' stand-off arms at 162', with two (2) 7/8" lines and three (3) 1/2" lines
2. Twelve (12) DB980F90 antennas on a 12' L.P. platform at 157.5', with twelve (12) 1-5/8" lines
3. Nine (9) RR90-18-xxDP antennas on a 12' L.P. platform at 147.5', with eighteen (18) 1-5/8" lines
4. Three (3) Allgon 7262.3 antennas on flush mounts at 137.5', with six (6) 1-5/8" lines
5. Twelve (12) DU04-8686 antennas and six (6) Cleargain DD1900 TMA's on a 12' L.P. platform at 127', with twelve (12) 1-5/8" lines
6. Six (6) LPA-80090/4cf antennas and six (6) LPA-185090/8cf antennas on a 12' L.P. platform at 117', with twelve (12) 1-5/8" lines
7. Twelve (12) 844G65VTZASX antennas on a 12' L.P. platform at 107', with twelve (12) 1/2" lines
8. Two (2) yagi antennas at 45', with two (2) 1/2" lines
9. One (1) yagi antenna at 40', with one (1) 1/2" line
10. One (1) yagi antenna at 20', with one (1) 1/2" line

With this revised equipment, the monopole and foundation are structurally adequate for the original design wind and ice criteria.

Sincerely,

Keith J. Tindall, P.E.  
Chief Engineer



4/15/05