



# 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)

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

March 12, 2004

Kenneth C. Baldwin  
Robinson & Cole  
280 Trumbull Street  
Hartford, CT 06103-3597

RE: **EM-VER-111-040202** - Cellco Partnership d/b/a Verizon Wireless notice of intent to modify an existing telecommunications facility located at Mount Tobe Road, Plymouth, Connecticut.

Dear Attorney Baldwin:

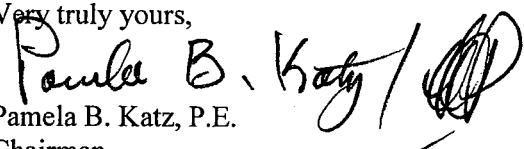
At a public meeting held on March 4, 2004, the Connecticut Siting Council (Council) acknowledged your notice to modify this existing telecommunications facility, pursuant to Section 16-50j-73 of the Regulations of Connecticut State Agencies.

The proposed modifications are to be implemented as specified here and in your notice dated February 2, 2004. 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. 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/laf

c: Honorable Richard G. Covello, Mayor, Town of Plymouth  
William Kuehn, Town Planner, Town of Plymouth  
Sheila R. Becker, Regional Director of Compliance, SBA, Inc.  
Stephen J. Humes, Esq., LeBoeuf, Lamb, Greene & MacRae, LLP  
Thomas J. Regan, Esq., Brown Rudnick Berlack Israels LLP  
Thomas F. Flynn III, Nextel Communications  
Michele G. Briggs, Southwestern Bell Mobile Systems

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

February 2, 2004

*Via Hand Delivery*

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

Re: **Notice of Exempt Modification  
Mount Tobe Road  
Plymouth, Connecticut**

RECEIVED  
FEB 02 2004

CONNECTICUT  
SITING COUNCIL

Dear Mr. Phelps:

Cellco Partnership d/b/a Verizon Wireless ("Cellco") intends to install antennas on an existing tower at Mount Tobe Road in Plymouth, 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 the Plymouth Mayor, Richard G. Covello.

The facility consists of a 160-foot self-supporting monopole tower, capable of supporting multiple carriers within an approximately 68' x 68' fenced site compound. The tower is owned and operated by SBA Towers, Inc. ("SBA") and is currently shared by T-Mobile at the 165-foot level; Sprint PCS at the 152-foot level; and Nextel at the 127-foot level. Cellco proposes to install twelve (12) panel-type antennas at the 137-foot level on the tower and a 12' x 30' single-story equipment shelter near the base of the tower. (See Attachment 1 - Project Plans).

The planned modifications to the Plymouth facility fall squarely within those activities explicitly provided for in R.C.S.A. § 16-50j-72(b)(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 137-foot level on the 160-foot tower.
2. The proposed installation of twelve (12) panel-type antennas and a 12' x 30' equipment shelter will not require an extension of the site boundaries.



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February 2, 2004  
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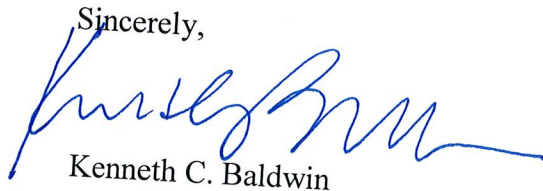
3. The proposed modification will not increase the noise levels at the facility by six decibels or more.

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 total worst-case radio frequency emission levels for existing and Cellco antennas would be 8.40% of the FCC standard, as measured for mixed frequency sites. (See Attachment 2)

Also included as Attachment 3 is an engineer's certification verifying that the tower can accommodate existing and proposed antennas and related equipment.

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

Sincerely,



Kenneth C. Baldwin

Attachments

cc: Richard G. Covello, Plymouth Mayor  
Sandy M. Carter







General Power Density\_WorstCase

Site Name: Thomaston S, 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 <sup>2</sup> )	Maximum Permissible Exposure <sup>*</sup> (mW/cm <sup>2</sup> )	Fraction of MPE (%)
T-Mobile	1935	6	205	1230	165	0.0162	1	1.62%
Sprint	1950	11	122	1342	152	0.0209	1	2.09%
Verizon	1970	3	200	600	137	0.0115	1	1.15%
Nextel	851	9	100	900	127	0.0201	0.567	3.54%
<b>Total Percentage of Maximum Permissible Exposure</b>								<b>8.40%</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.





PAUL J. FORD AND COMPANY  
STRUCTURAL ENGINEERS  
250 East Broad Street • Suite 500 • Columbus, Ohio 43215

January 21, 2004

Verizon Wireless  
Mount Tobe Road  
South Plymouth, CT 06762

Attn: Mark Gauger

Re: Existing 160-ft Monopole  
Located in Litchfield Co., CT: Site #10125-059  
PJF Project #29203-0342 Rev. 1 / PennSummit #15616

Dear Mr. Gauger:

Paul J. Ford and Company understands Verizon Wireless proposes to collocate on the above referenced monopole. We originally designed the monopole for SBA, Inc. in 2001 per PJF Project #29201-1019. The monopole was originally designed to safely withstand an 80 mph basic wind velocity for the following antenna loading:

**Table 1 - Design Antenna Information**

Elevation	Antenna Description
160'	(12) Decibel DB896H Panel Antennas On a 14' Low Profile Platform
150'	(12) Decibel DB896H Panel Antennas On a 14' Low Profile Platform
140'	(12) Decibel DB896H Panel Antennas On a 14' Low Profile Platform
130'	(12) Decibel DB896H Panel Antennas On a 14' Low Profile Platform
120'	(12) Decibel DB896H Panel Antennas On a 14' Low Profile Platform
110'	(12) Decibel DB896H Panel Antennas On a 14' Low Profile Platform

We were supplied with information regarding the existing and proposed antenna loading to be considered for this structural review. For this review we compared the antenna wind area from the original design with the wind area from the following existing and proposed antennas:

COLUMBUS, OHIO  
(614) 221-6679  
Fax (614) 221-2540

ATLANTA, GEORGIA  
(404) 266-2407  
Fax (404) 869-4608

ORLANDO, FLORIDA  
(407) 898-9039  
Fax (407) 897-3662

• [www.pjfweb.com](http://www.pjfweb.com) •

Verizon Wireless  
Attn: Mark Gauger  
Re: Existing 160-ft Monopole  
Located in Litchfield Co., CT: Site #10125-059  
PJF Project #29203-0342 Rev. 1 / PennSummit #15616

**Table 2 - Existing & Proposed Antenna Information**

Status	Elevation	Antenna Description	Owner
Existing	165'	(6) EMS RR90-17-02 Panel Antennas	Voicestream
		On a 14' Full Platform	
Existing	152'	(12) Decibel DB980F90 Panel Antennas	Sprint
		On a 14' Full Platform	
Proposed	137'	(12) Decibel DB844H80 Panel Antennas	Verizon Wireless
		On a 14' Full Platform	
Existing	127'	(12) Decibel DB844H90 Panel Antennas	Nextel
		On a 14' Full Platform	

Based on our comparison, we have determined that the proposed and existing antenna wind area will not exceed the design antenna wind area. The existing monopole has sufficient capacity to accommodate the new antenna loading while maintaining the original 80 mph design wind rating.

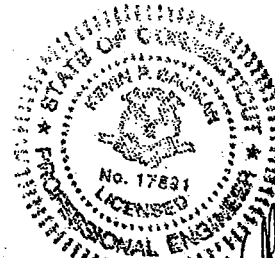
If you have any questions or concerns regarding the review of this monopole, please feel free to contact us at (614) 221-6679.

Sincerely,

PAUL J. FORD AND COMPANY



Michael Plahovinsak, E.I.T.  
Project Engineer  
e-mail: mplahovinsak@pjfweb.com



Kevin P. Bauman, P.E.  
Project Manager

