



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

Web Site: www.state.ct.us/csc/index.htm

September 25, 2003

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

RE: **EM-VER-023-030905** - Cellco Partnership d/b/a Verizon Wireless notice of intent to modify an existing telecommunications facility off of Powder Mill Road, Canton, Connecticut.

Dear Attorney Baldwin:


At a public meeting held on September 23, 2003, 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 September 5, 2003. 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.

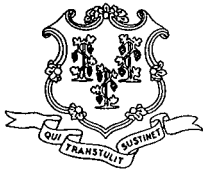
Thank you for your attention and cooperation.

Very truly yours,


Pamela B. Katz, P.E.
Chairman

PBK/laf

c: Honorable Mary B. Tomolonius, First Selectman, Town of Canton
Eric Barz, Town Planner, Town of Canton
Sheila R. Becker, Regional Director of Compliance, SBA, Inc.
Christopher B. Fisher, Esq., Cuddy & Feder LLP



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September 8, 2003

Honorable Mary B. Tomolonius
First Selectman
Town of Canton
4 Market Street
P. O. Box 168
Collinsville, CT 06022-0168

RE: **EM-VER-023-030905** - Cellco Partnership d/b/a Verizon Wireless notice of intent to modify an existing telecommunications facility off of Powder Mill Road, Canton, Connecticut.

Dear Ms. Tomolonius:

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 September 23, 2003, at 1:30 p.m. in Hearing Room One, Ten Franklin Square, New Britain, Connecticut.

Please call me or inform the Council if you have any questions or comments regarding this proposal.

Thank you for your cooperation and consideration.

Very truly yours,

S. Derek Phelps
Executive Director

SDP/ld

Enclosure: Notice of Intent

c: Eric Barz, Town Planner, Town of Canton

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

EM-VER-023-030905

September 5, 2003

Via Hand Delivery

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

RECEIVED
SEP - 5 2003
CONNECTICUT
SITING COUNCIL

Re: **Notice of Exempt Modification**
Powder Mill Road
Canton, Connecticut

Dear Mr. Phelps:

On March 15, 2001, Cellco Partnership d/b/a Verizon Wireless ("Cellco") received Siting Council approval to share an existing tower off Powder Mill Road in Canton, Connecticut (EM-VER-023-0102 16-2). Cellco now intends to modify its antenna configuration on this existing tower. 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 Canton First Selectman, Mary Tomolonius.

The Powder Mill Road tower is owned and operated by SBA, Inc. ("SBA"). The facility consists of a 180-foot self-supporting monopole tower, capable of supporting multiple carriers within a fenced site compound. Cellco proposes to modify its configuration by installing six (6) PCS antennas and six (6) cellular antennas at the same 147-foot level on the tower. Cellco's prior approval proposed the installation of twelve (12) cellular antennas.

The planned modifications to the Canton 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 continue to be mounted with their centerline at the 147-foot level on the 180-foot tower.



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S. Derek Phelps
September 5, 2003
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2. The proposed antenna modifications will not require an extension of the site boundaries.

3. The proposed antenna modifications will not increase the noise levels at the facility by six decibels or more.

4. The operation of PCS and Cellular antennas at this site 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 antenna modifications proposed will slightly increase power density emission levels at the site from 5.14 % for the cellular antennas alone to 6.56% for both PCS and Cellular antennas (see attached power density calculations table).

Also attached is an antenna specification sheet for the PCS antennas to be installed.

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

Sincerely,



Kenneth C. Baldwin

Attachments

cc: Mary Tomolonius, Canton First Selectman
Sandy M. Carter



General Power Density

Site Name: Collinsville 2, CT
 Tower Height: 147 ft rad center

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 (%)
Verizon	875	9	200	1800	147	0.0300	0.5833	5.14%
VZW PCS	1900	3	285	855	147	0.0142	1	1.42%
Total Percentage of Maximum Permissible Exposure								6.56%

*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 scenario, maximum values used.



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DB950G65E-M

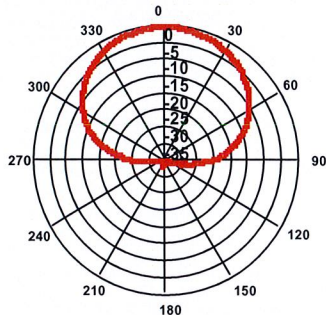
18.6 dBi, Log Periodic Antenna
1850-1990 MHz

1850-1990 MHz

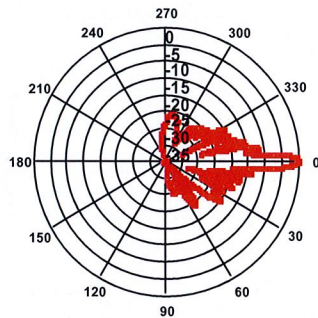
dB Director®

- Excellent azimuth roll-off, reducing sector to sector interference and reducing soft hand-offs
- Excellent upper side lobe suppression
- Low profile, low wind load for easy zoning

65°



Horizontal 1970 MHz (Tilt=0)



Vertical 1970 MHz (Tilt=0)



ELECTRICAL

Frequency (MHz):	1850-1990
Polarization:	Vertical
Gain (dBd/dBi):	16.5/18.6
Azimuth BW:	65°
Elevation BW:	6°
Beam Tilt:	0°
Front-to-Back Ratio* (dB):	40
VSWR:	<1.33:1
IM Suppression - Two 20 Watt Carriers:	-150 dBc
Impedance:	50 Ohms
Max Input Power:	250 Watts
Lightning Protection:	DC Ground

MECHANICAL

Weight:	16 lbs (7.3 kg)
Dimensions (LxWxD):	60 X 11 X 7 in (1524 X 279 X 178 mm)
Max. Wind Area:	4.3 ft ² (0.4 m ²)
Max. Wind Load (@ 100mph):	174 lbf (774 N)
Max. Wind Speed:	125 mph (201 km/h)
Radiator Material:	Low Loss Circuit Board
Reflector Material:	Passivated Aluminum
Radome Material:	ABS, UV Resistant
Mounting Hardware Material:	Galvanized Steel
Connector Type:	7/16 DIN - Female (Bottom)
Color:	Light Gray
Standard Mounting Hardware:	DB390 Pipe Mount Kit, included
Downtilt Mounting Hardware:	DB5098, optional
Opt. Mounting Hardware:	DB5094-AZ Azimuth Wall Mount



Andrew Corporation
8635 Stemmons Freeway
Dallas, Texas U.S.A 75247-3701
Tel: 214.631.0310

Fax: 214.631.4706
Toll Free Tel: 1.800.676.5342
Fax: 1.800.229.4706
www.andrew.com

Date: 7/25/2003

dbtech@andrew.com