

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.ct.gov/csc

March 18, 2004

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

RE: **EM-VER-078-040310A** – Cellco Partnership d/b/a Verizon Wireless notice of intent to modify an existing telecommunications facility located at 230 Clover Mill Road, Mansfield, Connecticut.

Dear Ms. Briggs:

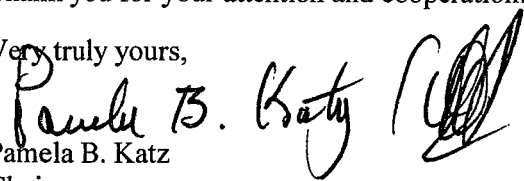
At a public meeting held on March 17, 2004, the Connecticut Siting Council (Council) acknowledged your notice to modify this existing telecommunications facility, pursuant to Section 16-50j-73 of the Regulations of Connecticut State Agencies.

The proposed modifications are to be implemented as specified here and in your notice dated March 10, 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
Chairman

PBK/cm

c: Honorable Elizabeth Patterson, Mayor, Town of Mansfield
Gregory Padick, Town Planner, Town of Mansfield
Christopher B. Fisher, Esq., Cuddy & Feder LLP
Thomas J. Regan, Brown Rudnick Berlack Israels LLP

RECEIVED
MAR 10 2004

CONNECTICUT
SITING COUNCIL

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

March 10, 2004

Via Hand Delivery

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

Re: **Notice of Exempt Modification**
230 Clover Mill Road
Mansfield, Connecticut

Dear Mr. Phelps:

Cellco Partnership d/b/a Verizon Wireless ("Cellco") intends to install antennas on an existing tower at 230 Clover Mill Road in Mansfield, 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 Town Manager, Martin Berliner.

The existing facility consists of a 178-foot self-supporting monopole tower, capable of supporting multiple carriers within a fenced compound. The tower is owned and operated by SpectraSite Communications, Inc. ("SpectraSite"). The Town has emergency services antennas extending above the top of the tower. The tower is currently shared by AT&T at the 168-foot level and Sprint PCS at the 158-foot level. Cellco proposes to install twelve (12) panel-type antennas (6 PCS and 6 Cellular) at the 178-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 Mansfield 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 178-foot level on the 178-foot tower.



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S. Derek Phelps
March 10, 2004
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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.

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. Pursuant to the RF analysis prepared for Sprint and included in TS-SPRINT-078-031017, the cumulative worst-case RF power density calculations for existing and Cellco antennas would be 13.45% of the applicable FCC Standard. Cellco's individual worst-case power density calculation would be 4.28 % of the applicable FCC Standard. (See Attachment 2)

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

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

Sincerely,



Kenneth C. Baldwin

Attachments

cc: Martin Berliner, Town Manager
Sandy M. Carter



Cellco Partnership

d.b.a. **verizon** wireless

WIRELESS COMMUNICATIONS FACILITY

MANSFIELD CENTER

PROJECT # 00011050463

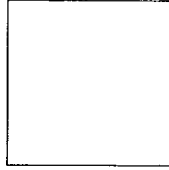
LOCATION CODE 1700322178

230 CLOVER MILL ROAD

MANSFIELD, CONNECTICUT 06268

Cellco Partnership
d.b.a. **verizon** wireless

Dewberry
Dewberry-Goodkind, Inc.
300 Main Street
Hartford, CT 06103
T: (860) 771-2281



No.	DATE	BY	Description
0	03/08/04	IRC	STING SIGNAL
1	02/04/04	IRC	SKETCH
2			
3			
4			
5			
6			
7			
8			
9			

REVISIONS

MANSFIELD CENTER
230 CLOVER MILL RD.
MANSFIELD, CT
06268

SITE NAME / ADDRESS

DRAWN BY: IRC
APPROVED BY: FOX
CHECKED BY: CKD
DATE: 03/08/04

SHEET TITLE
TITLE SHEET

DEWBERRY P/N: 344324

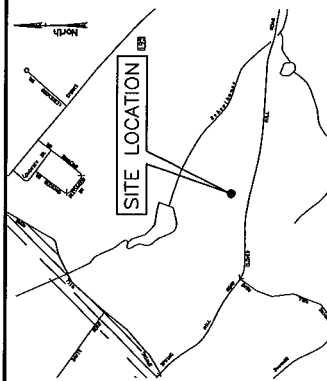
SHEET NO.
T1

SHEET INDEX

SHEET NO.	DESCRIPTION	REV. NO.
T-1	TITLE SHEET	0
C-1	COMPOUND PLAN & TOWER ELEVATIONS	0

PROJECT SUMMARY

SITE NAME: MANSFIELD CENTER
SITE ADDRESS: 230 CLOVER MILL ROAD, MANSFIELD, CT 06268
PROPERTY OWNER: KENNETH W. & JOAN A. JOHNSON, 77 PRASE ROAD, WOODBRIDGE, CT 06255
LEASEE: SOUTHERN TOWERS, INC., 100 REDWOOD FOREST DRIVE, GAITHERSBURG, MD 20878
LESSOR: SPECTRASCITE COMMUNICATIONS, INC., 2000 WASHINGTON AVENUE, SUITE 200, WASHINGTON, DC 20037
APPLICANT: CELCO PARTNERSHIP, 59 EAST RIVER DR., EAST HARTFORD, CT 06103
CONTRACT PERSON: SANDY CARTER, (860) 830-0219
CENTER OF TOWER: LATITUDE 41° 29' 24.2", LONGITUDE 72° 56' 38.5"



LOCATION MAP

MANSFIELD, CT

SCALE: 1" = 3000 FEET

DRIVING DIRECTIONS (FROM EAST HARTFORD):
MERGE ONTO BURNSIDE AVE/US-44, TURN RIGHT ONTO SCOTLAND RD, SCOTLAND ROAD BECOMES FORBES ST., TURN LEFT ONTO SILVER LN, SILVER LN BECOMES SPENCER ST., MERGE ONTO I-84 EAST TOWARD PROVIDENCE, TURN LEFT ONTO I-84 EAST TOWARD HARTFORD, TURN RIGHT ONTO MAPLE RD., TURN LEFT ONTO CT-273/3 BASSETT RD., TURN RIGHT ONTO MAPLE RD., MAPLE RD. BECOMES SPRING HILL RD., STAY STRAIGHT TO GO ONTO CLOVER MILL RD.

PROJECT DESCRIPTION:
THE PROJECT CONSISTS OF THE INSTALLATION AND OPERATION OF 3 SEPARATE TOWER SITES. THE TOWERS WILL BE MOUNTED TO THE EXISTING SPECTRASCITE TOWER, AND INSTALLING A 12' WIDE BY 30' LONG EQUIPMENT SHELTER. THIS SYSTEM WILL BOTH TRANSMIT AND RECEIVE RADIO SIGNALS.

PRIOR TO PERFORMING ANY WORK ON THE TOWER, A STRUCTURAL ANALYSIS MUST BE PERFORMED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF CONNECTICUT, CLEARLY STATING THAT THE TOWER CAN SAFELY SUPPORT THE EQUIPMENT SHOWN IN THESE PLANS.

THIS DOCUMENT WAS DEVELOPED TO REFLECT A SPECIFIC SITE AND ITS SITE CONDITIONS AND IS NOT TO BE USED FOR ANY OTHER PROJECT WITHOUT THE CONDITIONS PERTAINING TO THIS DOCUMENT IS AT THE SOLE RISK OF THE USER.

General Power Density

Site Name: Mansfield Center, CT
 Tower Height: 178 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	880	9	200	1800	178	0.0204	0.56733	3.60%
Verizon	1900	3	200	600	178	0.0068	1	0.68%
Total Percentage of Maximum Permissible Exposure								4.28%

*Guidelines adopted by the FCC on August 1, 1996, 47 CFR Part 1 based on NCRP Report 86, 1986 and generally on ANSI/IEEE C95.1-1-1992

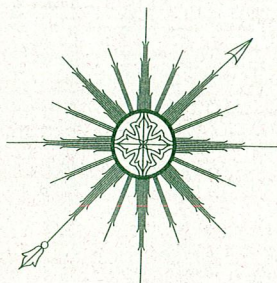
MHz = Megahertz

mW/cm² = milliwatts per square centimeter

ERP = Effective Radiated Power

Absolute worst case scenario, maximum values used.





ALL-POINTS TECHNOLOGY CORPORATION, P.C.

February 9, 2004

Verizon Wireless
99 East River Drive, 9th Floor
East Hartford, CT 06108

Attn: Wayne Lukachek
Re: 178' Monopole Tower
Verizon Project #00011050463; Mansfield Center
Mansfield, Connecticut

Dear Wayne,

All-Points Technology Corporation, P.C. conducted a third-party review of the 178' monopole tower located at 230 Clover Mill Road in Mansfield, Connecticut and fabricated by PennSummit Tubular, LLC. The review was conducted in accordance with EIA/TIA-222-F, Structural Standards for Steel Antenna Towers and Antenna Supporting Structures. The review consisted of an independent structural evaluation to verify that Verizon Wireless' proposed antennas met the manufacturer's original tower design. Verizon proposes to replace their existing antennas with six DB844F90 and six DB948F85 panel antennas and twelve 1-5/8" waveguide cables. Antenna mounts will not change.

It is my conclusion that the existing monopole can safely accommodate the proposed Verizon Wireless antennas. The anticipated stress levels in the monopole and foundation are well within the limits of the original design and meet the requirements of EIA/TIA-222-F.

We appreciate this opportunity to provide you with our services. Please call if you have any questions.

Sincerely,
All-Points Technology Corporation, P.C.

Robert E. Adair, P.E.
Principal



CT141360 Mansfield Center 2-9-04 ltr.doc