



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

www.ct.gov/csc

October 20, 2005

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

RE: **EM-VER-009-051004** - Cellco Partnership d/b/a Verizon Wireless notice of intent to modify an existing telecommunications facility located at 11 Francis J. Clarke Circle, Bethel, Connecticut.

Dear Attorney Baldwin:

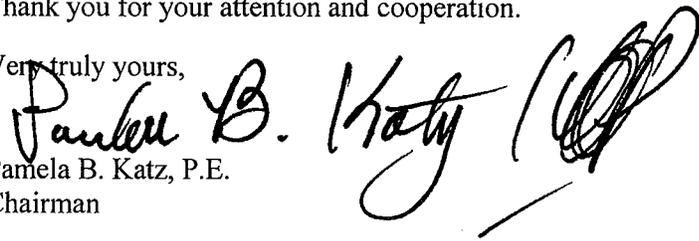
At a public meeting held on October 19, 2005, the Connecticut Siting Council (Council) acknowledged your notice to modify this existing telecommunications facility, pursuant to Section 16-50j-73 of the Regulations of Connecticut State Agencies.

The proposed modifications are to be implemented as specified here and in your notice dated October 4, 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/laf

- c: The Honorable Alice M. Hutchinson, First Selectman, Town of Bethel
- Steve Palmer, Planning & Zoning Official, Town of Bethel
- Sheila R. Becker, Regional Director of Compliance, SBA, Inc.
- Thomas J. Regan, Esq., Brown Rudnick Berlack Israels LLP
- Christopher B. Fisher, Esq., Cuddy & Feder LLP
- Thomas F. Flynn III, Esq., Nextel Communications, Inc.



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October 5, 2005

The Honorable Alice M. Hutchinson
First Selectman
Town of Bethel
1 School Street
Bethel Municipal Center
Bethel, CT 06801-2105

RE: **EM-VER-009-051004** – Cellco Partnership d/b/a Verizon Wireless notice of intent to modify an existing telecommunications facility located at 11 Francis J. Clarke Circle, Bethel, Connecticut.

Dear Ms. Hutchinson:

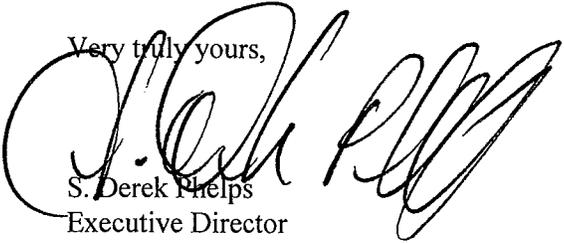
The Connecticut Siting Council (Council) received this request to modify an existing telecommunications facility, pursuant to Regulations of Connecticut State Agencies Section 16-50j-72.

The Council will consider this item at the next meeting scheduled for October 19, 2005 at 1:30 p.m. in Hearing Room One, Ten Franklin Square, New Britain, Connecticut.

If you have any questions or comments regarding this proposal, please call me or inform the council by October 17, 2005.

Thank you for your cooperation and consideration.

Very truly yours,


S. Derek Phelps
Executive Director

SDP/ap

Enclosure: Notice of Intent

c: Steve Palmer, Planning & Zoning Official, Town of Bethel

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

EM-VER-009-051004

October 4, 2005

Via Hand Delivery

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

RECEIVED
OCT 04 2005

CONNECTICUT
SITING COUNCIL

Re: **Notice of Exempt Modification**
11 Francis J. Clarke Circle
Bethel, Connecticut

Dear Mr. Phelps:

Cellco Partnership d/b/a Verizon Wireless ("Cellco") intends to install antennas on the existing 155-foot monopole tower owned by the SBA, Inc. at 11 Francis J. Clarke Circle in Bethel, 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 Bethel First Selectman, Alice M. Hutchinson.

The facility consists of a 155-foot self-supporting monopole tower capable of supporting multiple carriers within a fenced compound at 11 Francis J. Clarke Circle in Bethel. The tower is currently shared by the Sprint at the 156-foot level; Nextel at the 146-foot level; and AT&T at the 126-foot level on the tower. Cellco proposes to install twelve (12) panel-type antennas at the 136-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 Bethel 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 136-foot level on the 155-foot tower.



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~ ORIGINAL ~

S. Derek Phelps
October 4, 2005
Page 2

2. The proposed installation of a 12' x 30' equipment shelter will not require an extension of the fenced compound or lease area.

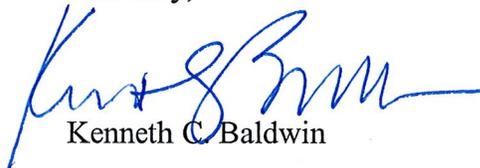
3. The proposed installation will not increase the noise levels at the facility by six decibels or more.

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 cumulative worst-case RF power density calculations for the existing and proposed Cellco antennas would be 19.68% 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,



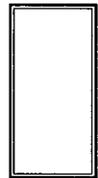
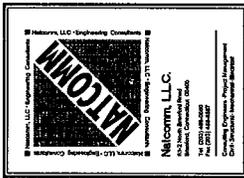
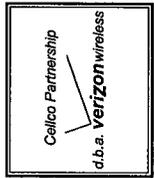
Kenneth C. Baldwin

Attachments

cc: Alice M. Hutchinson, First Selectman
Sandy M. Carter



NO.	DATE	BY	DESCRIPTION
1	09/22/08	JBA	FINAL CONCEPT DESIGN

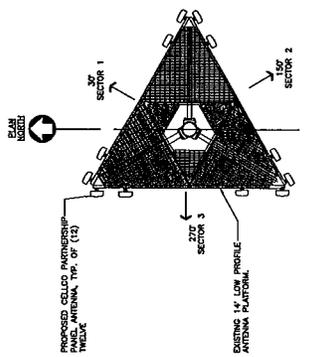
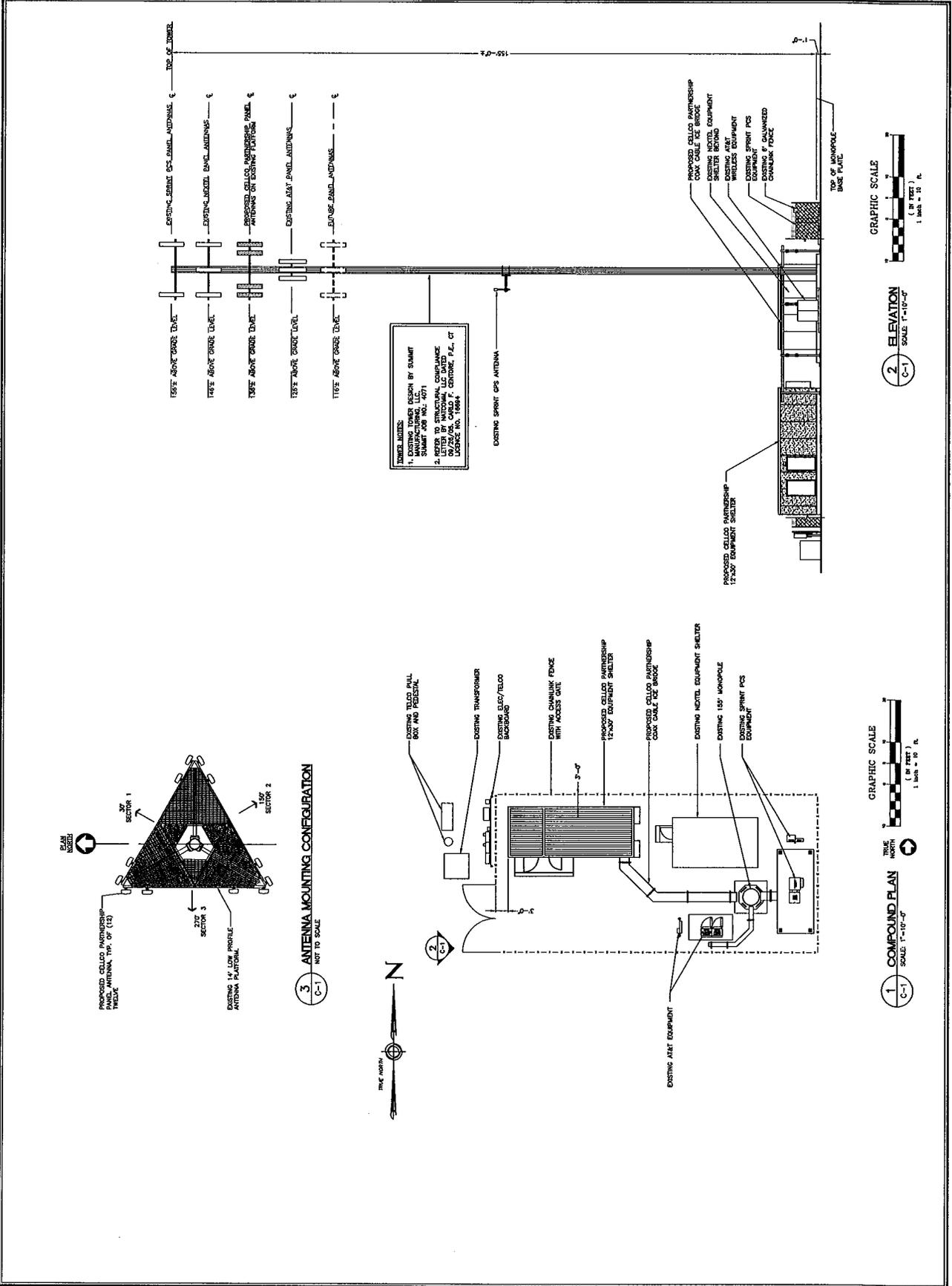


BETHEL WEST
 11 FRANCIS J. CLARKE CIRCLE
 BETHEL, CONNECTICUT 06891

PROJECT NO: 05022
 DRAWN BY: JBA
 CHECKED BY: DMD
 SCALE: AS NOTED
 DATE: 09/17/08

COMPOUND PLAN AND ELEVATION

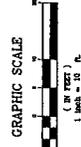
C-1
 DWG. 2 OF 2



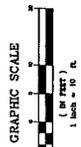
3 ANTENNA MOUNTING CONFIGURATION
 NOT TO SCALE



TOWER NOTES:
 1. EXISTING TOWER DESIGN BY SUMMIT MANUFACTURING, LLC. SUMMIT JOB NO. 4071. ALL WORK SHALL BE IN ACCORDANCE WITH THE TOWER MANUFACTURER'S (SUMMIT) SPECIFICATIONS. CONTACT SUMMIT AT 203-261-8887.
 2. LETTER TO NATCOM, LLC DATED 09/22/08, CAROL P. CENTORE, P.E., CT LICENSE NO. 10041



2 ELEVATION
 SCALE: 1"=10'-0"



1 COMPOUND PLAN
 SCALE: 1"=10'-0"

General Power Density

Site Name: Bethel West
 Tower Height: 155 FT

Operator	Operating Frequency (MHz)	Number of Trunks	ERP Per Trunk (watts)	Total ERP (watts)	Distance to Edge (feet)	Calculated Power Density (mW/cm ²)	Maximum Permissible Exposure (mW/cm ²)	Fraction of MPE (%)
Verizon	880	9	200	1800	136	0.0350	0.56733	6.17%
Verizon	1900	3	256	768	136	0.0149	1	1.49%
Sprint	1900	11	122	1342	156	0.0198	1	1.98%
AT&T	1900	3	427	1281	126	0.0290	1	2.90%
Nextel	851	24	100	2400	146	0.0405	0.5673	7.14%
Total Percentage of Maximum Permissible Exposure								19.68%

*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





NATCOMM, LLC

Consulting Engineers

September 26, 2005

Mr. Mark Gauger
Verizon Wireless
99-101 East River Road
East Hartford, CT 06002

Re: *Verizon – Bethel West*
11 Francis J. Clarke Circle
Bethel, Connecticut

Natcomm Project No. 05022

Dear Mark,

We have reviewed the proposed Verizon antenna installation at the above referenced site. The purpose of the review is to determine the adequacy of an existing 155ft. monopole to support the proposed antennas. The review considered the effects of wind load, dead load, ice load and seismic forces in accordance with TIA/EIA-222-F and Connecticut State Building Code. Structural design documents prepared by Summit Manufacturing, LLC project #4071 dated October 22, 1998, were used as reference material.

The exiting antenna engineered configurations are as follows:

- Sprint: Twelve (12) Decibel DB896H mounted on a 14-foot low profile platform at an elevation of 156.0 ft.
- Nextel: Twelve (12) Decibel DB896H mounted on a 14-foot low profile platform at an elevation of 146.0 ft.
- AT&T: Twelve (12) Decibel DB896H mounted on a 14-foot low profile platform at an elevation of 126.0 ft.

The proposed antenna loading is as follows:

- Verizon: Six (6) Antel LPA-80090/4CF antennas mounted on a 14-foot low profile platform at an elevation of 136.0 ft.
- Verizon: Six (6) Antel LPA-185090/8CF antennas mounted on a 14-foot low profile platform at an elevation of 136.0 ft.

The future antenna loading as per the referenced design documents is as follows:

- Future: Twelve (12) Decibel DB896H mounted on a 14-foot low profile platform at an elevation of 116.0 ft.

Based on the information provided the existing structure meets all the requirements of the TIA/EIA-222-F standards for a basic wind speed of 85 mph with no ice and 75% of wind pressure with 1/2" radial ice.

In conclusion, the existing 155ft monopole is adequate to support the proposed Verizon antennas.

If there are any questions regarding this matter, please feel free to call.

Submitted by:

Carlo F. Centore, P.E.
Senior Project Manger

