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JUN 16 2005

CONNECTICUT  
SITING COUNCIL

KENNETH C. BALDWIN

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

June 15, 2005

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

Re: **TS-VER-097-020102 – Cellco Partnership d/b/a Verizon Wireless  
Order to Approve the Shared Use of a Tower Facility at 8 Ferris Road,  
Newtown, Connecticut**

Dear Mr. Phelps:

On January 18, 2002, the Siting Council approved Cellco Partnership's request to share the existing telecommunications tower at 8 Ferris Road in Newtown. Cellco recently learned that since the Council's 2002 approval, AT&T Wireless was permitted to install its equipment within the tower compound in a manner that would interfere with the approved location of its 12' x 30' equipment shelter. In order to utilize this site, Cellco now needs to shift its equipment shelter location to the east of the approved location and, due to the location of an existing elected pull box, reduce its shelter size to 12' x 20'. The new shelter size and location are shown on the attached compound plan. The use of the smaller shelter will also result in the installation of an external, pad-mounted generator.

We wanted to make the Council aware of these minor changes to the layout of equipment in the compound so that your files accurately reflect site conditions. If you have any questions or concerns regarding this minor modification please contact me.

Sincerely,



Kenneth C. Baldwin

Enclosure

cc: Sandy M. Carter



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# STATE OF CONNECTICUT

## CONNECTICUT SITING COUNCIL

Ten Franklin Square, New Britain, CT 06051

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

Web Site: [www.state.ct.us/csc/index.htm](http://www.state.ct.us/csc/index.htm)

January 18, 2002

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

RE: **TS-VER-097-020102** - Celco Partnership d/b/a Verizon Wireless request for an order to approve tower sharing at an existing telecommunications facility located at 8 Ferris Road, Newtown, Connecticut.

Dear Attorney Baldwin:

At a public meeting held January 17, 2002, the Connecticut Siting Council (Council) ruled that the shared use of this existing tower site is technically, legally, environmentally, and economically feasible and meets public safety concerns, and therefore, in compliance with General Statutes § 16-50aa, the Council has ordered the shared use of this facility to avoid the unnecessary proliferation of tower structures. 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 may require an explicit request to this agency pursuant to General Statutes § 16-50aa or notice pursuant to Regulations of Connecticut State Agencies Section 16-50j-73, as applicable. Such request or notice shall include all relevant information regarding the proposed change with cumulative worst-case modeling of radio frequency exposure at the closest point 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.

This decision applies only to this request for tower sharing and is not applicable to any other request or construction.

The proposed shared use is to be implemented as specified in your letter dated December 31, 2001.

Thank you for your attention and cooperation.

Very truly yours,

Mortimer A. Gelston  
Chairman

MAG/laf

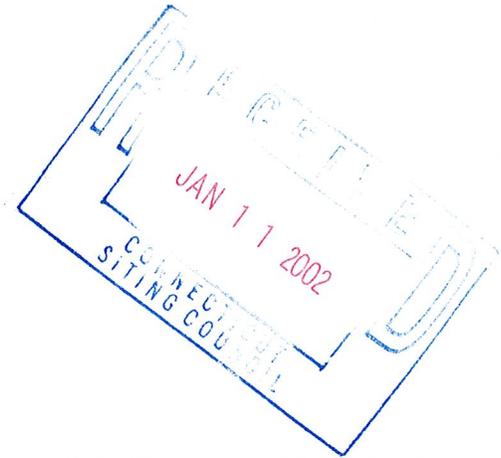
- c: Honorable Herbert C. Rosenthal, First Selectman, Town of Newtown
- Gary Frenette, Zoning Enforcement Officer, Town of Newtown
- Ronald C. Clark, Nextel Communications
- Julie M. Donaldson, Esq., Hurwitz & Sagarin LLC



January 10, 2002

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

Re: *Newtown West*  
*8 Ferris Rd*  
*Newtown, CT*  
*Natcomm Proj. No. 454A*



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 120ft. 4 carrier monopole to support the proposed antennas. Considered were the effects of the 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 ENGINEERED ENDEAVORS INCORPORATED job/quote #5189 dated June 29, 1999 were used as reference material along with tower inventory prepared by CSB Communications on October 05, 2001.

The existing antenna configuration on the design documents is as follows:

- Nextel: Nine (9) DB844H90E mounted on a 14 ft. low profile platform at an elevation of 118'-3".
- Sprint: Six (6) DB980H90 mounted on a 14 ft. low profile platform at an elevation of 108'-3".

The proposed additional antenna loading is as follows:

- Verizon: Twelve (12) DB844H80 mounted on a 14 ft. low profile platform at an elevation of 98'-0".

The future antenna loading is as follows:

- Future carrier: Twelve (12) 4.00 ft. panels mounted on a 14 ft. low profile platform at an elevation of 88'-0".

In conclusion, the existing 120 ft. monopole and associated foundation is adequate to support the proposed Verizon antennas in accordance with TIA/EIA-222-F standards for a basic wind speed of 85mph with 1/2 inch radial ice.

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

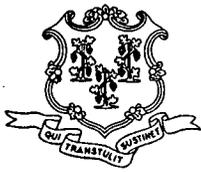
Submitted by:

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



Prepared by:

Emad M. Mourad, P.E.  
Structural Engineer



# STATE OF CONNECTICUT

## CONNECTICUT SITING COUNCIL

Ten Franklin Square, New Britain, CT 06051

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Web Site: [www.state.ct.us/csc/index.htm](http://www.state.ct.us/csc/index.htm)

January 8, 2002

Honorable Herbert C. Rosenthal  
First Selectman  
Town of Newtown  
Town Hall  
45 Main Street  
Newtown, CT 06470

RE: **TS-VER-097-020102** - Cellco Partnership d/b/a Verizon Wireless request for an order to approve tower sharing at an existing telecommunications facility located at 8 Ferris Road, Newtown, Connecticut.

Dear Mr. Rosenthal:

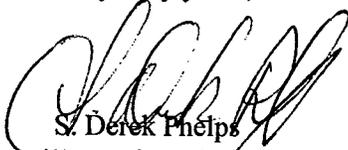
The Connecticut Siting Council (Council) received this request for tower sharing, pursuant to Connecticut General Statutes § 16-50aa.

The Council will consider this item at the next meeting scheduled for Thursday, January 17, 2002, 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/laf

Enclosure: Notice of Tower Sharing

c: Gary Frenette, Zoning Enforcement Officer, Town of Newtown

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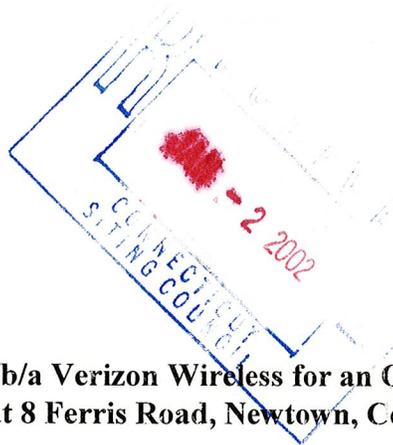
280 Trumbull Street  
Hartford, CT 06103-3597  
860-275-8200  
Fax 860-275-8299

Kenneth C. Baldwin  
860-275-8345  
kbaldwin@rc.com

December 31, 2001

*Via Airborne Express*

Mortimer A. Gelston  
Chairman  
Connecticut Siting Council  
10 Franklin Square  
New Britain, CT 06051



Re: **Request of Cellco Partnership d/b/a Verizon Wireless for an Order to Approve the Shared Use of a Tower Facility at 8 Ferris Road, Newtown, Connecticut**

Dear Mr. Gelston:

Pursuant to Connecticut General Statutes §16-50aa, as amended, Cellco Partnership d/b/a Verizon Wireless ("Cellco") hereby requests an order from the Connecticut Siting Council ("Council") to approve the proposed shared use by Cellco of an existing Nextel Communications ("Nextel") tower located at 8 Ferris Road, Newtown, Connecticut. Cellco requests that the Council find that the proposed shared use of the tower satisfies the criteria stated in Connecticut General Statutes § 16-50aa and issue an order approving the proposed use.

## **Background**

The Nextel tower at 8 Ferris Road was constructed pursuant to approvals from the Town of Newtown. The tower is a 120-foot self-supporting monopole structure within a 53' x 50' facility compound. The tower is currently owned and operated by Nextel and is shared by Sprint.

Cellco is licensed by the Federal Communications Commission (FCC) to provide cellular wireless telephone service in the State of Connecticut, which includes the area to be served by Cellco's proposed Newtown installation. Cellco and Nextel have agreed to the proposed shared use of this tower pursuant to mutually acceptable terms and conditions, and Nextel has authorized Cellco to act on its behalf to apply for all necessary local, state and federal permits, approvals, and authorizations which may be required for the proposed shared use of this facility.

Cellco proposes to install twelve (12) panel-type antennas at the 98-foot level on the tower. The radio transmission equipment associated with these antennas would be located in a new 12-foot by 30-foot equipment building which would be located near the base of the tower.

C.G.S. § 16-50aa(c)(1) provides that, upon written request for approval of a proposed shared use, "if the council finds that the proposed shared use of the facility is technically, legally, environmentally and economically feasible and meets public safety concerns, the council shall issue an order approving such shared use." The shared use of the tower satisfies those criteria as follows:

**A. Technical Feasibility.** The existing tower is structurally capable of supporting the proposed Cellco antennas. The proposed shared use of this tower therefore is technically feasible. A letter verifying the structural integrity of the existing tower is attached to this filing.

**B. Legal Feasibility.** Under C.G.S. § 16-50aa, the Council has been authorized to issue orders approving the proposed shared use of an existing tower facility such as the facility at 8 Ferris Road in Newtown. This authority complements the Council's prior-existing authority under C.G.S. § 16-50p to issue orders approving the construction of new towers that are subject to the Council's jurisdiction. In addition, § 16-50x(a) directs the Council to "give such consideration to other state laws and municipal regulations as it shall deem appropriate" in ruling on requests for the shared use of existing towers facilities. Under the statutory authority vested in the Council, an order by the Council approving the requested shared use would permit the Applicant to obtain a building permit for the proposed installations.

**C. Environmental Feasibility.** The proposed shared use would have a minimal environmental effect, for the following reasons:

1. The proposed installations would have an insignificant incremental visual impact, and would not cause any significant change or alteration in the physical or environmental characteristics of the existing site. In particular, the proposed installations would not increase the height of the existing tower, and would not extend the boundaries of the tower site outside the limits of the existing site compound.
2. The proposed installations would not increase the noise levels at the existing facility by six decibels or more.
3. Operation of Cellco antennas at this site would not exceed the total radio frequency (RF) electromagnetic radiation power density level adopted by the Federal Communications Commission. The "worst-case" exposure calculated for operation of this facility (i.e., calculated at the base of the tower), would be 0.0232 mW/cm<sup>2</sup> (4.06% of the standard) for Nextel antennas at the 118-foot level; and 0.0413 mW/cm<sup>2</sup> (4.13% of the

# ROBINSON & COLE LLP

Mortimer A. Gelston  
December 31, 2001  
Page 3

standard) for Sprint antennas at the 108-foot level. Cellco antennas would add  $0.0711 \text{ mW/cm}^2$  (12.19% of the standard), for a total of 20.38% of the standard, as measured for mixed frequency sites.

4. The proposed installations, would not require any water or sanitary facilities, or generate air emissions or discharges to water or sanitary facilities, or generate air emissions or discharges to water bodies. After construction is complete the proposed installations would not generate any traffic other than periodic maintenance visits.

The proposed use of this facility would therefore have a minimal environmental effect, and is environmentally feasible.

**E. Economic Feasibility.** As previously mentioned, Nextel and Cellco have entered into a mutual agreement to share the use of the replacement tower on terms agreeable to the parties. The proposed tower sharing is therefore economically feasible.

**F. Public Safety Concerns.** As stated above, the tower will be structurally capable of supporting the Cellco antennas. Cellco is not aware of any public safety concerns relative to the proposed sharing of the existing tower. In fact, the provision of new or improved phone service through shared use of the existing tower is expected to enhance the safety and welfare of area residents.

## Conclusion

For the reasons discussed above, the proposed shared use of the existing tower at 8 Ferris Road in Newtown, Connecticut satisfies the criteria stated in C.G.S. § 16-50aa and advances the General Assembly's and the Siting Council's goal of preventing the proliferation of towers in Connecticut. The Applicant therefore requests that the Siting Council issue an order approving the proposed shared use.

Thank you for your consideration of this matter.

Very truly yours,



Kenneth C. Baldwin

KCB/kmd  
Attachments

cc: Herbert C. Rosenthal, First Selectman, Town of Newtown  
Sandy M. Carter



December 26, 2001

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

*Re: Newtown West  
8 Ferris Rd  
Newtown, CT  
Natcomm Proj. No. 454A*

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 120ft. 4 carrier monopole to support the proposed antennas. Considered were the effects of the 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 ENGINEERED ENDEAVORS INCORPORATED job/quote #5189 dated June 29, 1999 were used as reference material along with tower inventory prepared by CSB Communications on October 05, 2001.

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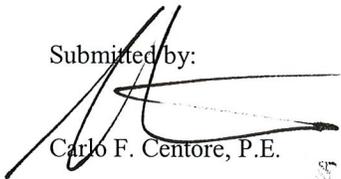
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In conclusion, the existing 120 ft. monopole is adequate to support the proposed Verizon antennas in accordance with TIA/EIA-222-F standards for a basic wind speed of 85mph with ½ inch radial ice.

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

Submitted by:

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



Prepared by:

  
Emad M. Mourad, P.E.  
Structural Engineer

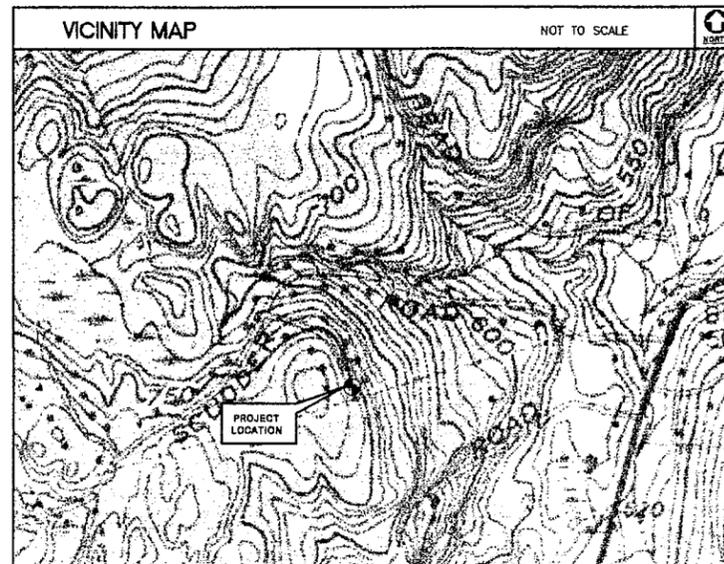
# Cellco Partnership

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

## WIRELESS COMMUNICATIONS FACILITY NEWTOWN WEST

8 FERRIS ROAD  
NEWTOWN, CONNECTICUT 06470

PROJECT SUMMARY	
SITE NAME:	NEWTOWN WEST
SITE ADDRESS:	8 FERRIS ROAD NEWTOWN, CONNECTICUT
PROPERTY OWNER:	NEXTEL COMMUNICATIONS, INC. 100 CORPORATE PLACE ROCKY HILL, CT. 08067
APPLICANT:	VERIZON WIRELESS 99-101 EAST RIVER DR. WEST HARTFORD, CT 06108
TOWER COORDINATES:	LATITUDE: 41-22-42.2 N LONGITUDE: 73-21-44.7 W BASE ELEV: 783' ± AMSL INFORMATION BASED ON CT SITING COUNCIL
GENERAL NOTES	
1. PROPOSED AND EXISTING ANTENNA LOCATIONS AND HEIGHTS PROVIDED BY VERIZON WIRELESS.	
SITE DIRECTIONS	
FROM: 99-101 EAST RIVER DR., EAST HARTFORD, CT. TO: 8 FERRIS RD, NEWTOWN, CT	
TAKE I-84 W. TAKE THE US-6 W EXIT, EXIT NUMBER 10 TOWARDS NEWTOWN/SANDY HOOK. TURN RIGHT ONTO CHURCH HILL RD/US-6. CHURCH HILL RD/US-6 BECOMES US-6. TURN LEFT ONTO MAIN ST/CT-25. TURN RIGHT ONTO SUGAR ST/CT-302. TURN RIGHT ONTO SCUDDER RD. TURN LEFT ONTO FERRIS RD.	



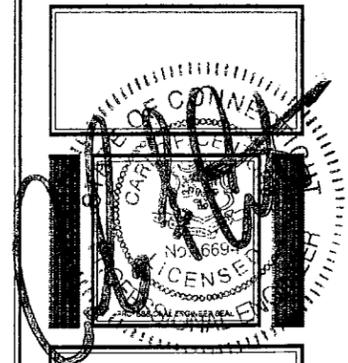
SHEET INDEX		
SHT. NO.	DESCRIPTION	REV. NO.
T-1	TITLE SHEET	01
C-1	COMPOUND PLAN & TOWER ELEVATION	01

REVISIONS		
CD	DATE	DESCRIPTION
00	11/02/01	SITING COUNCIL REVIEW
01	12/21/01	SITING COUNCIL

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

**NATCOMM**

Natcomm, L.L.C. Engineering Consultants  
63-2 North Stamford Road  
Branford, Connecticut 06405  
Tel: (203) 488-0580  
Fax: (203) 488-5587  
Consulting Engineers-Project Management  
Civil-Structure-Mechanical-Electrical



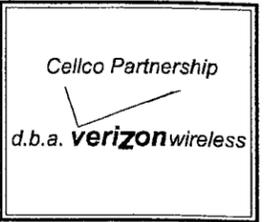
NEWTOWN WEST  
8 FERRIS RD  
NEWTOWN, CT 06470

PROJECT NO: 454A  
DRAWN BY: DMD  
CHECKED BY: FJT  
SCALE: AS NOTED  
DATE: 10/02/01

TITLE SHEET

T-1  
DWG. 1 OF 2

REVISIONS		
00	11/02/01	SIT'NG COUNCIL REVIEW
01	12/21/01	SIT'NG COUNCIL



Natcomm, LLC - Engineering Consultants

Natcomm, L.L.C.  
83-2 North Branford Road  
Branford, Connecticut 06405  
Tel: (203) 488-0580  
Fax: (203) 488-8587  
Consulting Engineers/Project Management  
Civil-Structural-Mechanical-Electrical



**NEWTOWN WEST**

8 FERRIS RD  
NEWTOWN, CT 06470

PROJECT NO:	454A
DRAWN BY:	DMD
CHECKED BY:	FJT
SCALE:	AS NOTED
DATE:	10/02/01

**COMPOUND PLAN  
& TOWER  
ELEVATION**

**C-1**  
DWG. 2 OF 2

