

# 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)

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

September 29, 2005

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

RE: **EM-VER-091-050908** - Cellco Partnership d/b/a Verizon Wireless notice of intent to modify an existing telecommunications facility located at 302 Ball Pond Road, New Fairfield, Connecticut.

Dear Attorney Baldwin:

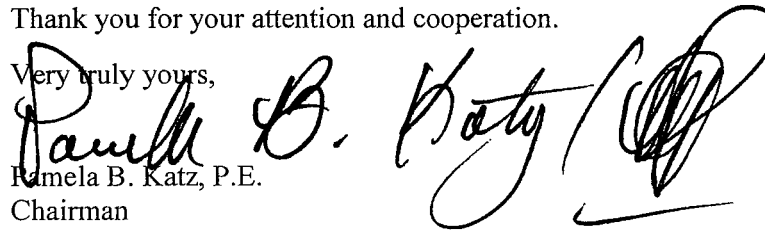
At a public meeting held on September 28, 2005, the Connecticut Siting Council (Council) acknowledged your notice to modify this existing telecommunications facility, pursuant to Section 16-50j-73 of the Regulations of Connecticut State Agencies.

The proposed modifications are to be implemented as specified here and in your notice dated September 8, 2005, and additional power density information dated September 19, 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.

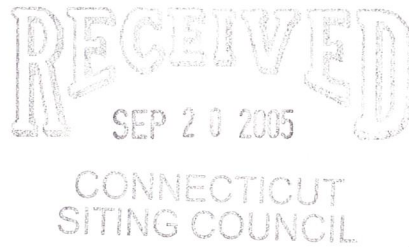
Very truly yours,

  
Pamela B. Katz, P.E.  
Chairman

PBK/laf

c: The Honorable Peggy A. Katkocin, First Selectman, Town of New Fairfield  
Maria Hausscherr-Hughes, Zoning Enforcement Officer, Town of New Fairfield  
Christopher B. Fisher, Esq., Cuddy & Feder LLP  
Thomas F. Flynn III, Nextel Communications, Inc.  
Christine Farrell, T-Mobile

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



September 19, 2005

Michael Perrone  
Connecticut Siting Council  
Ten Franklin Square  
New Britain, CT 06051

Re: **EX-VER-091-050908- 302 Ball Pond Road, Fairfield, CT**

Dear Mr. Perrone:

As requested, enclosed you will find the cumulative power density calculations table for the above referenced facility.

Sincerely,

A handwritten signature in blue ink, appearing to read "Kenneth C. Baldwin".

Kenneth C. Baldwin



*Law Offices*

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HARTFORD

NEW LONDON

STAMFORD

GREENWICH

WHITE PLAINS

NEW YORK CITY

SARASOTA

*www.rc.com*

General Power Density

Site Name: New Fairfield 2, CT  
 Tower Height: 125 Ft

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 (mW/cm <sup>2</sup> )	Fraction of MPE (%)
AT&T	1965	12	250	3000	165	0.0396	1.000	3.96%
Town Fire Dept	33.86	4	95	380	178	0.0043	0.200	2.16%
Town Police Dept	155.01	4	68	272	189	0.0027	0.200	1.37%
Town Pub Wks Dept	155.94	4	100	400	189	0.0040	0.200	2.01%
Nextel	851	8	317	2536	155	0.0380	0.567	6.69%
Cingular	880	2	296	592	135	0.0117	0.587	1.99%
Cingular	1930	2	427	854	135	0.0168	1.000	1.68%
T-Mobile	1935	8	116	928	145	0.0159	1.000	1.59%
Verizon	880	9	200	1800	125	0.0414	0.587	7.06%
Verizon	1900	3	225	675	125	0.0155	1.000	1.55%
<b>Total Percentage of Maximum Permissible Exposure</b>								<b>30.07%</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



# ROBINSON & COLE LLP

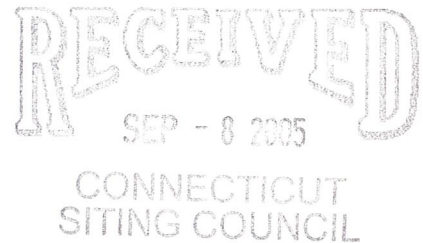
KENNETH C. BALDWIN

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

September 8, 2005

***Via Hand Delivery***

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



Re: **Notice of Exempt Modification  
302 Ball Pond Road  
New Fairfield, Connecticut**

Dear Mr. Phelps:

Cellco Partnership d/b/a Verizon Wireless ("Cellco") intends to install antennas on the existing 175-foot monopole tower owned by the Town of New Fairfield at 302 Ball Pond Road in New Fairfield, 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 First Selectman Peggy A. Katkocin.

The facility consists of a 175-foot self-supporting monopole tower capable of supporting multiple carriers within a fenced compound at 302 Ball Pond Road in Newtown. The tower is currently shared by the Town at the top level; AT&T at the 165-foot level; Nextel at the 155-foot level; T-Mobile at the 145-foot level; and Cingular at the 135-foot level. Cellco proposes to install twelve (12) panel-type antennas at the 125-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 New Fairfield 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 125-foot level on the 175-foot tower.



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# ROBINSON & COLE<sub>LLP</sub>

S. Derek Phelps  
September 8, 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.

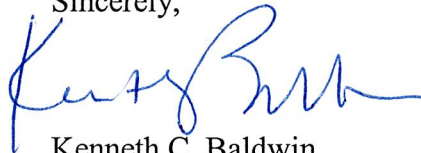
3. The proposed installation will not increase the noise levels at the facility by six decibels or more.

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 worst-case RF power density calculations for the proposed Cellco antennas would be 8.86% of the FCC standard. A copy of the general power density calculations table is attached behind Tab 2.

Also attached, behind Tab 3, is an engineer's certification 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: Peggy A. Katkocin, First Selectman  
Sandy M. Carter



CELLCO PARTNERSHIP

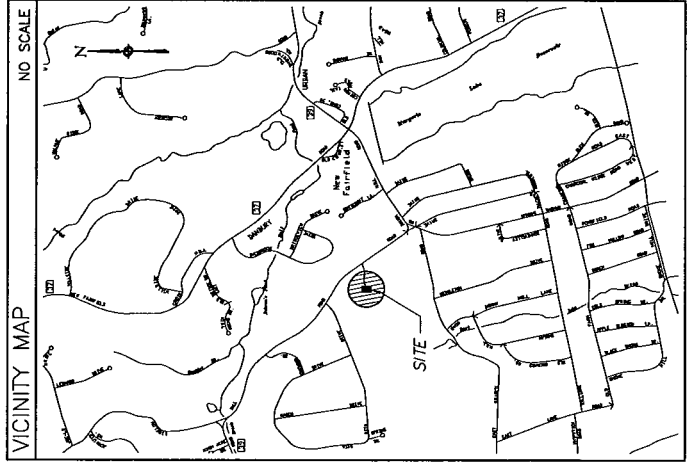
DBA



verizon wireless

NEW FAIRFIELD

302 BALL POND ROAD  
NEW FAIRFIELD, CONNECTICUT



PROJECT SUMMARY

SITE NAME: NEW FAIRFIELD  
SITE ADDRESS: 302 BALL POND ROAD  
NEW FAIRFIELD, CONNECTICUT  
CONTACT PERSON: CELLCO PARTNERSHIP DBA  
VERIZON WIRELESS  
(860) 592-1519  
GOVERNING CODE: CONNECTICUT STATE BUILDING  
AND LIFE SAFETY CODE  
APPLICANT: CELLCO PARTNERSHIP DBA  
BY EAST WALK DRIVE, SUITE 101  
GUT HARTFORD, CT 06108  
ARCHITECT: URS CORPORATION A.E.S.  
795 BROOK STREET, BLDG 5  
ROCKY HILL, CT 06867  
W/P/ENGINEER: URS CORPORATION A.E.S.  
795 BROOK STREET, BLDG 5  
ROCKY HILL, CT 06867

LEGEND

Table with 2 columns: SYMBOL, DESCRIPTION. Includes symbols for SECTION OR DETAIL NUMBER, ELEVATION NUMBER, and SHEET WHERE ELEVATION OCCURS.

ABBREVIATIONS

Table with 2 columns: MIN., DESCRIPTION. Includes abbreviations for MINIMUM, V.I.F., D.C., P.F.F., TYP., and T.O.W.

SHEET INDEX

Table with 2 columns: SHEET NO., DESCRIPTION. Lists sheets T-1 and SC-1.

CELLCO PARTNERSHIP DBA Verizon wireless

URS CORPORATION A.E.S. 795 BROOK STREET, BLDG 5 ROCKY HILL, CONNECTICUT 1-860-592-1512

AME SEAL

PROJECT NO: 36929403  
JOB NO: VZ1-106  
DRAWN BY: BAL  
CHECKED BY:

Table with 2 columns: ISSUED FOR, DATE. Lists various project milestones and dates.

THE INFORMATION CONTAINED IN THIS SET OF DOCUMENTS IS PROPRIETARY BY NATURE. ANY USE OR DISCLOSURE OF THIS INFORMATION RELATES TO VERIZON WIRELESS IS STRICTLY PROHIBITED.

NEW FAIRFIELD  
302 BALL POND ROAD  
NEW FAIRFIELD, CONNECTICUT

SCALE: AS NOTED  
TITLE SHEET - GENERAL NOTES AND LEGEND

T-1



General Power Density

Site Name: New Fairfield 2, CT  
 Tower Height: 125 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 <sup>2</sup> )	Maximum Permissible Exposure* (mW/cm <sup>2</sup> )	Fraction of MPE (%)
Verizon	880	9	200	1800	125	0.0414	0.56733	7.30%
Verizon	1900	3	225	675	125	0.0155	1	1.55%
<b>Total Percentage of Maximum Permissible Exposure</b>								<b>8.86%</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

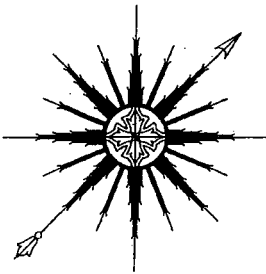
mW/cm<sup>2</sup> = milliwatts per square centimeter

ERP = Effective Radiated Power

Absolute worst case scenario, maximum values used.







# ALL-POINTS TECHNOLOGY CORPORATION, P.C.

August 11, 2005

Verizon Wireless  
East River Drive, 9<sup>th</sup> Floor  
East Hartford, CT 06108

Attn: Mark Gauger  
Re: 175' Monopole Tower  
New Fairfield, Connecticut

Dear Mark,

I am writing with regard to Verizon Wireless' proposed antennas to be installed on the 175' F.A. Nudd monopole tower located at 302 Ball Pond Road in New Fairfield, Connecticut.

According to Fred A. Nudd design drawings (Drawing No. 03-9303-1), the monopole tower is designed to support seven 12-panel antenna arrays. Verizon Wireless proposes to install six Antel WPA-80080/8CF and six LPA-185080/12CF\_2 panel antennas at 125', fed by twelve 1-5/8" waveguide cables.

My evaluation indicates that the tower and reinforced base plate are capable of supporting Verizon Wireless' proposed antennas and associated appurtenances. The proposed installation meets original design loads and the anticipated stress levels in the tower and foundation will be less than design capacity.

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

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

Robert E. Adair, P.E.  
Principal

CT141591 New Fairfield 8-11-05 ltr.doc

