

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

February 4, 2004

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

RE: EM-VER-014-015-043-064-085-097-040116 - Cellco Partnership d/b/a Verizon Wireless notice of intent to modify existing telecommunications facilities located at 850 West Main Street, Branford; 338 Kaechele Place, Bridgeport; 1455 Forbes Street, East Hartford; 305 West Service Road, Hartford; 439 Homestead Avenue, Hartford; Fairfield Drive, Newtown; and 88 Main Street, Monroe,

Connecticut.

Dear Attorney Baldwin:

At a public meeting held on October 7, 2002, the Connecticut Siting Council (Council) acknowledged your notice to modify these existing telecommunications facilities, 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 January 16, 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 existing facility sites that would not increase tower heights, extend the boundaries of the tower site, increase noise levels at the tower site boundaries by six decibels, and increase the total radio frequencies electromagnetic radiation power density measured at the tower site boundaries to or above the standard adopted by the State Department of Environmental Protection pursuant to General Statutes § 22a-162. These facilities have also been carefully modeled to ensure that radio frequency emissions are conservatively below State and federal standards applicable to the frequencies now used on these towers.

This decision is under the exclusive jurisdiction of the Council. Any additional change to these facilities 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: See attached list.



Recipient List:

Honorable John Fabrizi, Mayor, City of Bridgeport
Michael P. Nidoh, City Planner, City of Bridgeport
Honorable John E. Opie, First Selectman, Town of Branford
Justine K. Gillen, Zoning Enforcement Officer, Town of Branford
Honorable Timothy D. Larson, Mayor, Town of East Hartford
Michael J. Dayton, Town Planner, Town of East Hartford
Honorable Eddie A. Perez, Mayor, City of Hartford
Robert A. LaPorte, Chairman of City Planning Commission, City of Hartford
Honorable Andrew J. Nunn, First Selectman, Town of Monroe
Daniel A. Tuba, Planning Administrator, Town of Monroe
Honorable Herbert C. Rosenthal, First Selectman, Town of Newtown

ROBINSON & COLE IIP

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

January 23, 2004

Via Hand Delivery

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

Re: EM-VER-014-015-043-064-085-097-040116

Dear Mr. Phelps:

Enclosed you will find the Radio Frequency power density information and the antenna specifications requested for the above referenced exempt modification. This information verifies that there is a minor change in radio frequency power density emissions at each of the sites. As indicated on the attached antenna specifications, the existing cellular antennas are in fact heavier and have a larger wind area than the proposed PCS antennas to be installed at each location. Therefore, a structural analysis is not required for the proposed modifications.

Please contact me if you have any additional questions.

Sincerely,

Kenneth C. Baldwin

RC

Law Offices

Воѕтон

HARTFORD

NEW LONDON

cc: Sandy M. Carter

STAMFORD

GREENWICH

NEW YORK

www.rc.com

HART1-1155221-1

KCB:jmh

Enclosures



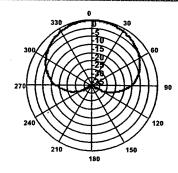
DB948F85E-M

16.2 dBi, Log Periodic Antenna 1850-1990 MHz 1850-1990 MHz

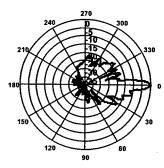
MaxFill™ dB Director®

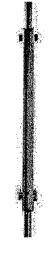
- Exceptional azimuth roll-off reducing soft hand-offs and improving capacity
- Excellent upper side lobe suppression
- Deep null filling below the horizon assures improved signal intensity.
- Low profile appearance and low wind loading profile for easier zoning approvals

050



Horizontal 1920 MHz





Elevation (Vertical) 1920 MHz

Electrical		Mec	hanical or produce and
Frequency (MHz):	1850-1990	Weight:	8.5 lbs (3.9 kg)
Polarization:	Vertical	Dimensions (LxWxD):	48 X 3.3 X 7 in
Gain (dBd/dBi):	14.1/16.2	'	(1219 X 84 X 178 mm)
Azimuth BW:	85°	Max. Wind Area:	1.7 ft² (0.16 m²)
Elevation BW:	8°	Max. Wind Load (@ 100mph):	68 lbf (302 N)
Beam Tilt:	0°	Max. Wind Speed:	125 mph (201 km/h)
USLS* (dB):	>18	Radiator Material:	Low Loss Circuit Board
Null Fill* (dB):	15	Reflector Material:	Pass. Aluminum
Front-to-Back Ratio* (dB):	40	Radome Material:	ABS, UV Resistant
VSWR:	1.33:1	Mounting Hardware Material:	Galvanized Steel
IM Suppression - Two 20 Watt Carriers:	-150	Connector Type:	7/16 DIN - Female (Bottom)
Impedance:	50 Ohms	Color:	Light Gray
Max Input Power:	250 Watts	Standard Mounting Hardware:	DB390 Pipe Mount Kit
Lightning Protection:	DC Ground	Downtilt Mounting Hardware:	DB5098
Opt Electrical Tilt:	0°,2°,4°,6°	Opt. Mounting Hardware:	DB5094-AZ Azimuth Wall Mount

* Typical Values

8635 Stemmons Freeway Dallas, Texas U.S.A 75247-3701
Dallas/Ft.Worth Area Tel: 214.631.0310 Fax: 214.631.4706
Toll Free Tel: 1.800.676.5342 Fax: 1.800.229.4706
www.decibelproducts.com
dbtech@decibelproducts.com

Date: 1/24/2003



DB844H90E-XY

Wide Band Log Periodic Antenna

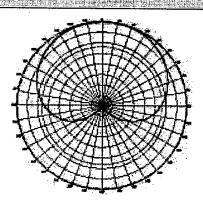
806-896 MHz 880-960 MHz

dB Director®

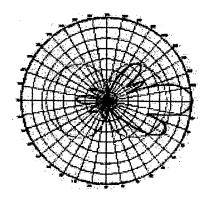
- Wide Band 806-960 MHz, ideal for multiple system requirements.
- Superior Azimuth pattern roll off; reducing sector to sector interference, improving call capacity.
- Extremely rugged, reliable design yet lightweight with low wind load.





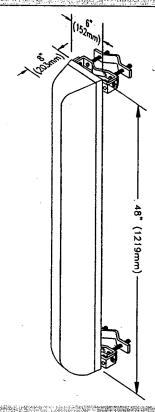


Elevation (Vertical)



Electrical

	806-896 MHz	880-960 MHz
Gain:	12 dBd (14.1 dBi)	12.4 dBd (14.5 dBi)
VSWR:	1.35:1	1.4:1
USLS:	> 15	dB
Horizontal Beamwidth:	90)°
Vertical Beamwidth:	15	•
Front-to-Back Ratio:	40 d	В
Impedance:	50 Oh	ms
Max. Input Power:	500 W	atts
Connector:	7/16 DIN	(Back)
	(N-Female,	optional)
Lightning Protection:	DC Gro	ound



Mechanical

Weight: 10 lbs (4.5 kg) Wind Area: 2.8 ft2 (0.26 m2)

Frontal Thrust: 80 lbf (356N) 35.9 kp (at 100 mph) 112 lbf (498N) 50.3 kp (at 100 mph) **Lateral Thrust:**

Max. Wind Speed: 125 mph Radiators: Brass Back Panel: Pass. Aluminum

Radome: ABS, UV Resistant Mounting Hardware: Galvanized Steel

Color: Gray

Mounting Options

Standard: Downtilt:

DB380 pipe mount kit included. DB5083 downtilt bracket, optional.

8635 Stemmons Freeway • Dallas, Texas U.S.A. 75247-3701 Dallas/Ft.Worth Area Tel: 214.631.0310 • Fax: 214.631.4706 Toll Free Tel: 1.800.676.5342 • Fax: 1.800.229.4706 www.decibelproducts.com dbtech@decibelproducts.com



General Power Density

Site Name: Hartford NW, CT Tower Height: 140 ft rad center - Homestead Ave

7.39%				kposure	nissible Ex	num Pern	Total Percentage of Maximum Permissible Exposure	Total Percen
1.57%	1	0.0157	140	855	285	ω	1900	VZW PCS
5.82%	0.56733	0.0330	140	1800	200	9	880	Verizon
(%)	(mW/cm^2)	(mW/cm^2)	(feet)	(watts)	(watts)		(MHz)	
Rection of NPE	Maximum Permissable Exposure*	Calculated Power Density	Distance to Larget	Total ERP	ERP Pet	Number of	Operating Frequency	Operator

*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^2 = milliwatts per square centimeter
ERP = Effective Radiated Power



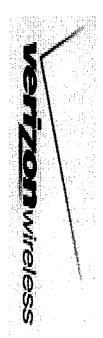
General Power Density

Site Name: Hartford N, CT - West Service Tered
Tower Height: 115 ft rad center

	(feet) 115	Density) (mW/cm^2) 0.0489 0.0232	5	Total Percentage of Maximum Permissible Exposure	VZW PCS 1900 3 285 855	Verizon 880 9 200 1800	(MHz) (watts) (watts)	Operating Number of ERP Per Dis Dis Prequency Trans Trans Trans 1
(watts) (watts) 200 1800 285 855 issible Exposure		Postance to Power Power	Postance to Power Power	imum Pern	ω	9		Number of Trans
(watts) 1800 855 posure		Postance to Power Power	Postance to Power Power	iissible Ex	285	200	(watts)	IPROPERTY.
	Pistance to Target (feet) 115 115	Density) (mW/cm^2) 0.0489 0.0232	Density (mW/cm^2) 0.0489 0.0232	posure	855	1800	(watts)	Total ERE

*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^2 = milliwatts per square centimeter
ERP = Effective Radiated Power



Site Name: Forbes St, CT Tower Height: 108 ft rad center

Total Percentage of Maximum Permissible Exposure	VZW PCS	Verizon		Operator
tage of Maxii	1900	880	(MHz)	Operating Frequency
num Pern	ω	9		Number of
nissible Ex	285	200	(watts)	ERP Por
posure	855	1800	(watts)	Total Exc
	108	108	(feet)	Distanço (o
	0.0264	0.0555	(mW/cm^2) (mW/cm	Calciliated Power Denvity
	1	0.56733	(mW/cm^2)	Maximum Permissable Exposure*
12.42%	2.64%	9.78%	(%)	Talk.

*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^2 = milliwatts per square centimeter ERP = Effective Radiated Power

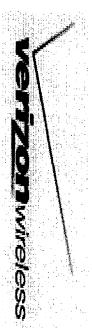


Site Name: Hawleyville, CT ~ NEWTOW N Tower Height: 140 Ft. rad center

7 300,				posure	1issible E2	num Pern	Cotal Percentage of Maximum Permissible Exposure	otal Percen
1.57%	-1	0.0157	140	855	285	3	1900	Verizon
5.82%	0.56733	0.0330	140	1800	200	9	880	Verizon
(%)	(mW/cm^2)	(mW/cm^2) (mW/cm	(feet)	(watts)	(watts)		(MHz)	
Fraction MPE	Maximum Permissible Exposure	Galculated Power Density	Distance to		DAR ROT	Number of Litans.	Operating Frequency	Operator

*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^2 = milliwatts per square centimeter ERP = Effective Radiated Power



Site Name: Site Name: Branford SW, CT Tower Height: 112 Ft. rad center

11.55%				posure	TISSIDIE EX	num r eru	i otat i er centage of iviaximum r ermissible exposure	I otal Lelen
1					יים כולים	Dam	tomo of Manin	Tatal Damasa
2.45%	1	0.0245	112	855	285	ယ	1900	Verizon
9.10%	0.56733	0.0516	112	1800	200	9	880	Verizon
(%)	(mW/cm^2)	(mW/cm^2)	(feet)	(watts)	(watts)		(MHz)	
Praction of	Maximum Permissable Exposure*	Calculated Power Density	Distantion to	Ton ERP	HAUP ECT	Number of Trans.	Operating Frequency	Operator

*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^2 = milliwatts per square centimeter
ERP = Effective Radiated Power



Site Name: Trumbull SW, CT - BRIDGE PORT
Tower Height: 100 Ft. rad center

14.48%				posure	nissible Ex	num Pern	Total Percentage of Maximum Permissible Exposure	Total Percen
3.07%	>	0.0307	100	855	285	ω	1900	Verizon
11.41%	0.56733	0.0647	100	1800	200	9	880	Verizon
(%)	(mW/cm^2)	(mW/cm^2)	(feet)	(watts)	(watts)		(MHz)	
Evaction of MPE	Maximum Permissable Exposure*	Calculated Power Density	Distance to Target	Hotalerr	ERPE TIANS	Number of Trans	Operating Frequency	Operator:

*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^2 = milliwatts per square centimeter ERP = Effective Radiated Power



Site Name: Monroe S, CT Tower Height: 165 Ft. rad center

ij		-	Γ	27 C. S. S. S. S.
tal Percen	Verizon	Verizon		Operator
Total Percentage of Maximum Permissible Exposure	1900	880	(MHz)	Operating Frequency
num Pern	3	9		Number of Trans
nissible Ex	285	200	(watts)	ERP Per
posure	855	1800	(watts)	Total ERR
	165	165	(feet)	Distance to Target
	0.0113	0.0238	(mW/cm^2)	Calculated Power Pensity
	1	0.56733	(mW/cm^2)	Maximum Permissable Exposure*
5.32%	1.13%	4.19%	(%)	Reaction of MPE
32%	%	%		

*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^2 = miliwatts per square centimeter
ERP = Effective Radiated Power



ROBINSON & COLE ILIP

KENNETH C. BALDWIN

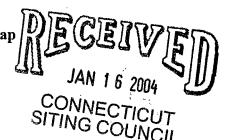
280 Trumbull Street Hartford, CT 06103-3597 Main (860) 275-8200 Fax (860) 275-8299 kbaldwin@rc.com Direct (860) 275-8345

January 16, 2004

Via Hand Delivery

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

Re: Notice of Exempt Modification – Antenna Swap 305 West Service Road, Hartford, CT 439 Homestead Avenue, Hartford, CT 1455 Forbes Avenue, East Hartford, CT Fairfield Drive, Newtown, CT 850 West Main Street, Branford, CT 338 Kaechele Place, Bridgeport, CT 88 Main Street, Monroe, CT



Dear Mr. Phelps:

Cellco Partnership d/b/a Verizon Wireless ("Cellco") currently maintains telecommunications facilities at each of the above-referenced tower sites. In each case, Cellco has received approval to install twelve (12) panel-type cellular antennas on the existing tower. Cellco now intends to modify each of these facilities by simply replacing six (6) of the cellular antennas with six (6) PCS antennas.

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 chief elected officials in each municipality.

As the Council knows, on May 23, 2003, Cellco acquired, from Northcoast Communications, a license to provide PCS service throughout Connecticut. The proposed modifications to each of these tower sites will allow Cellco to provide its customers in Connecticut, with enhanced wireless voice and data services. While these modifications are not significant, Cellco feels compelled to present these modifications to the Council for review.



Law Offices

Boston

HARTFORD

NEW LONDON

STAMFORD

GREENWICH

NEW YORK

www.rc.com

HART1-1153285-1

ROBINSON & COLE ILP

S. Derek Phelps January 16, 2004 Page 2

The planned modifications to the above-referenced facilities fall squarely within those activities explicitly provided for in R.C.S.A. § 16-50j-72(b)(2).

- 1. The proposed modifications will not result in any increase in the overall height of the existing tower structure. Cellco's replacement antennas will be mounted at the same level as their existing antennas.
- 2. The proposed modifications will not affect any ground-mounted equipment and will not require the extension of the site boundaries.
- 3. The proposed modifications will not increase noise levels at the facility by six decibels or more.
- 4. The proposed modifications will not result in radio frequency (RF) power density levels at the facilities that exceed the Federal Communications Commission (FCC) adopted safety standard.

For the foregoing reasons, Cellco respectfully submits that the proposed modifications to the above-referenced telecommunications facilities constitute an exempt modification under R.C.S.A. § 16-50j-72(b)(2).

Sincerely

Kenneth C. Baldwin

cc: Eddie A. Perez, Mayor of Hartford
Timothy D. Larson, Mayor of East Hartford
Herbert C. Rosenthal, First Selectman, Town of Newtown
Anthony J. DaRos, First Selectman, Town of Branford
John M. Fabrizi, Mayor of Bridgeport
Andrew J. Nunn, First Selectman, Town of Monroe

Sandy M. Carter

