

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

August 13, 2004

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

RE: **EM-VER-014-040804** – Cellco Partnership d/b/a Verizon Wireless notice of intent to modify an existing telecommunications facility located at 180 North Main Street, Branford, Connecticut.

Dear Attorney Baldwin:

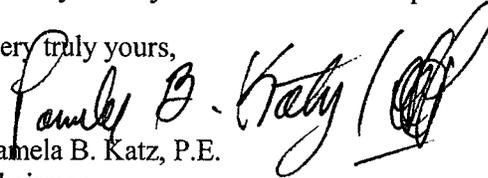
At a public meeting held on August 12, 2004, the Connecticut Siting Council (Council) acknowledged your notice to modify this existing telecommunications facility, pursuant to Section 16-50j-73 of the Regulations of Connecticut State Agencies.

The proposed modifications are to be implemented as specified here and in your notice dated August 4, 2004, 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. 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/cm

c: Honorable John E. Opie, First Selectman, Town of Branford
Justine K. Gillen, Zoning Enforcement Officer, Town of Branford



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August 4, 2004

Honorable John E. Opie
First Selectman
Town of Branford
1019 Main Street
Branford, CT 06405-0150

RE: **EM-VER-014-040804** – Cellco Partnership d/b/a Verizon Wireless notice of intent to modify an existing telecommunications facility located at 180 North Main Street, Branford, Connecticut.

Dear Mr. Opie:

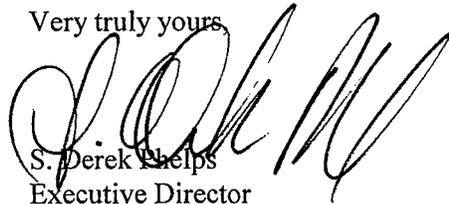
The Connecticut Siting Council (Council) received this request to modify an existing telecommunications facility, pursuant to Regulations of Connecticut State Agencies Section 16-50j-72.

The Council will consider this item at the next meeting scheduled for August 12, 2004 at 1:30 p.m. in Hearing Room Two, 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/cm

Enclosure: Notice of Intent

c: Justine K. Gillen, Zoning Enforcement Officer, Town of Branford

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

August 4, 2004

Via Hand Delivery

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

RECEIVED
AUG - 4 2004
**CONNECTICUT
SITING COUNCIL**

Re: **Notice of Exempt Modification – Antenna Swap
180 North Main Street Telecommunications Facility
Branford, Connecticut**

Dear Mr. Phelps:

Cellco Partnership d/b/a Verizon Wireless (“Cellco”) currently maintains a wireless telecommunications facility at 180 North Main Street in Branford. This facility consists of fifteen (15) panel-type cellular antennas on the existing 110-foot tower. (Twelve (12) antennas at the 98’-5” level; and three (3) at the 104’-11” level.) Equipment associated with the antenna is located in an equipment shelter near the base of the tower.

The Connecticut Siting Council (“the Council”) approved Cellco’s shared use of the North Main Street facility on December 6, 1995. Cellco now intends to modify its facility by replacing three (3) of its cellular antennas, at the 104’-11” level, with three (3) Dual-Pol PCS antennas. Attached behind Tab 1 are specifications for the existing antennas and the proposed antennas for the North Main Street facility.

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 Branford First Selectman, John E. Opie.

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 the North Main Street facility will allow Cellco to provide its customers in the Branford area with enhanced wireless voice and data services.



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HART1-1197259-1

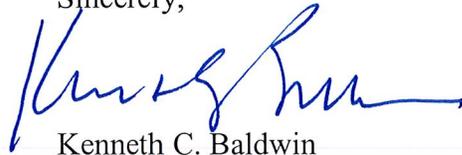
S. Derek Phelps
August 4, 2004
Page 2

The planned modifications to the North Main Street facility 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 structure. Cellco's replacement antennas will be mounted at the same 104'-11" level on the 110-foot tower.
2. The proposed modifications will not affect associated 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 facility that exceed the Federal Communications Commission (FCC) adopted safety standard. Attached behind Tab 2 is a Power Density Calculation Table.

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

Sincerely,



Kenneth C. Baldwin

Enclosures

cc: John E. Opie, First Selectman
Sandy M. Carter



ALP 9212-N

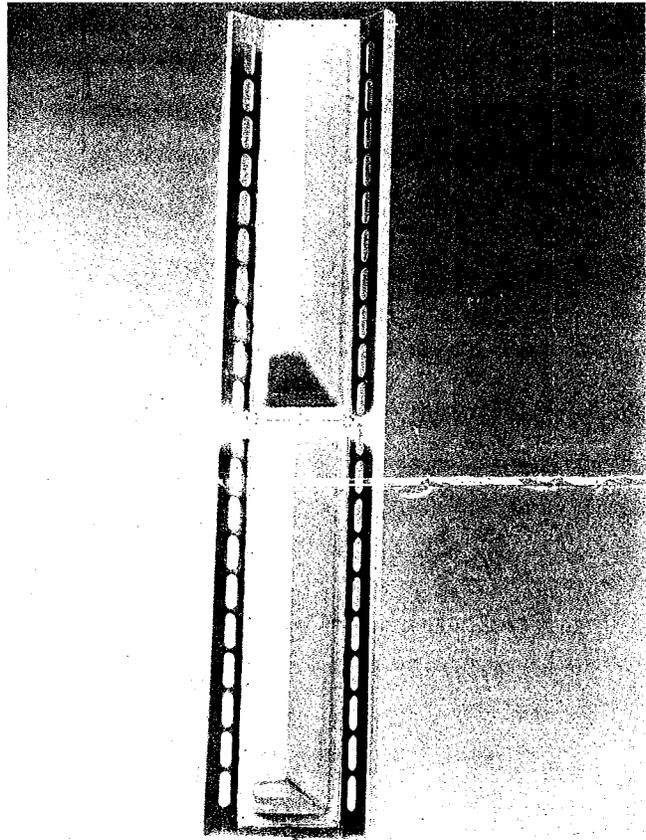
Log-Periodic Reflector Antenna

92 Degrees 12 dBd

Features:

- Broadbanded. (800-900 MHz)
- Low backlobe radiation. Front-to-back ratio better than 28 dB
- Low Intermodulation Products.
- Low Wind-load.
- Low weight.
- Small size.
- Rugged design.

Please see the following pages including radiation patterns/tables for ALP 9212-N.



Electrical Specifications:

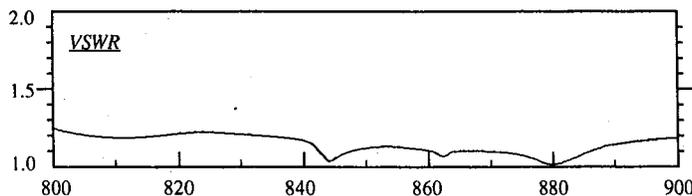
Frequency range:	806-896 MHz
Impedance:	50 ohm
Connector:	N-female or 7/8" EIA
VSWR:	Typ. 1.3:1 max 1.5:1
Polarization:	Vertical
Gain:	12 dBd
Front to back ratio:	>28 dB
Side-lobe suppression:	>18 dB
Intermodulation: (2x25W):	IM3 >146 dB IM5 >153 dB IM7 & IM9 >163 dB
Power Rating:	500 W
H-Plane: -3 dB	95 °
E-Plane: -3 dB	15 °
Lightning Protection:	DC Grounded

Mechanical Specifications:

Overall Height:	52 in	(1320 mm)
Width:	11.4 in	(290 mm)
Depth:	11.4 in	(290 mm)
Weight including brackets:	26.7 lbs	(12 Kg)
Rated wind velocity:	113 mph	(180 Km/h)
Wind Area (CxA/Front):	3.9 sq.ft	(0.36 sq.m)
Lateral thrust at rated wind		
Worst case:	570 N	

Materials:

Radiating elements:	Aluminum
Element housing:	Grey PVC
Back-plate:	Aluminum



Mounting hardware
clamps:
bolts:

Hot dip galvanized steel
Stainless steel

Manufactured by: Allgon System AB

DECIBEL
Base Station Antennas

932DG65T2E-M

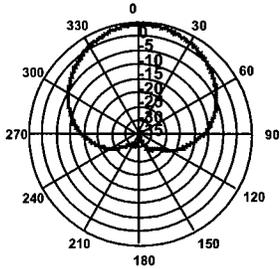
18 dBi, ± 45° Diversity Panel Antenna
1850-1990 MHz

1850-1990 MHz

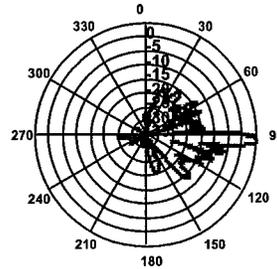
Diversity Master™
GEN3XPOL™

- Features air dielectric feed system for maximum array efficiency and lowest loss
- No fasteners, rivets, soldering or welding in critical element-to-transformer circuit
- Strong first upper side lobe suppression
- Excellent gain per unit length of antenna

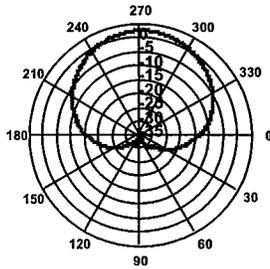
65°



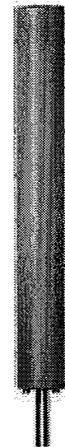
Azimuth 1970 MHz (Tilt=2)



Vertical 1970 MHz (Tilt=2)



Horizontal 1970 MHz (Tilt=2)



ELECTRICAL

Frequency (MHz):	1850-1990
Polarization:	+45°/-45°
Gain (dBd/dBi):	15.9/18
Azimuth BW:	65°
Elevation BW:	7°
Beam Tilt:	2°
USLS* (dB):	>18
Null Fill* (dB):	25
Front-to-Back Ratio* (dB):	32
Isolation (dB):	>30
VSWR:	<1.33:1
IM Suppression - Two 20 Watt Carriers:	-150 dBc
Impedance:	50 Ohms
Max Input Power:	250 Watts
Lightning Protection:	DC Ground
Opt Electrical Tilt:	0°, 4°, 6°

MECHANICAL

Weight:	9.5 lbs (4.3 kg)
Dimensions (LxWxD):	51.5 X 7 X 3 in (1308 X 178 X 76 mm)
Max. Wind Area:	0.86 ft² (0.08 m²)
Max. Wind Load (@ 100mph):	50 lbf (222 N)
Max. Wind Speed:	125 mph (201 km/h)
Radiator Material:	Aluminum
Reflector Material:	Aluminum
Radome Material:	Polycarbonate, UV Resistant
Mounting Hardware Material:	Galvanized Steel
Connector Type:	7-16 DIN - Female (Bottom)
Color:	Light Gray
Standard Mounting Hardware:	DB390 Pipe Mount Kit, included
Downtilt Mounting Hardware:	DB5098, optional
Opt. Mounting Hardware:	DB5094-AZ Azimuth Wall Mount



Andrew Corporation
8635 Stemmons Freeway
Dallas, Texas U.S.A 75247-3701
Tel: 214.631.0310

Fax: 214.631.4706
Toll Free Tel: 1.800.676.5342
Fax: 1.800.229.4706
www.andrew.com

Warranty: 5 Years
Date: 3/30/2004
* - Indicates Typical Values

dbtech@andrew.com

General Power Density

Site Name: Branford , CT
 Tower Height: 98/104 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	869	9	200	1800	98	0.0674	0.5793	11.63%
Verizon	1900	3	200	600	104	0.0199	1	1.99%
Total Percentage of Maximum Permissible Exposure								13.63%

*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

Absolute worst case scenario, maximum values used.

