

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

March 9, 2004

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

RE: **EM-VER-034-040219** - Cellco Partnership d/b/a Verizon Wireless notice of intent to modify an existing telecommunications facility located at 144 Old Boston Road, Danbury, Connecticut.

Dear Attorney Baldwin:

At a public meeting held on March 4, 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 February 19, 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 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/laf

 c: Honorable Mark. D. Boughton, Mayor, City of Danbury Dennis Elpern, City Planner, City of Danbury Michele G. Briggs, Southwestern Bell Mobile Systems Stephen Marcus, The Marcus Group



ROBINSON & COLE LLP

EM-VER-034-040219

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

February 19, 2004

FEB 19 204

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

Danbury South - 144 Old Boston Road (Moses Mountain) Danbury, CT

Dear Mr. Phelps:

Cellco Partnership d/b/a Verizon Wireless ("Cellco") has established a telecommunications facility at the above-referenced tower site. Cellco currently maintains eight (8) panel-type cellular antennas on the existing tower. Cellco now intends to modify this facility by simply replacing four (4) of the cellular antennas with four (4) 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 Mark D. Boughton, Mayor of the City of Danbury.



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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 above referenced tower 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 this modification to the Council for review.

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

- 1. The proposed modification 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 modification will not affect any ground-mounted equipment and will not require the extension of the site boundaries.
- 3. The proposed modification will not increase noise levels at the facility by six decibels or more.
- 4. The proposed modification will not result in radio frequency (RF) power density levels at the facilities that exceed the Federal Communications Commission (FCC) adopted safety standard. Attached to this notice are RF Power Density calculations for both the Cellco cellular and PCS antennas at the Danbury South cell site.

Also attached are the specifications for the existing cellular and proposed PCS antennas to be used at this site. Please note that the existing cellular antennas are in fact heavier and have a larger wind area than the proposed PCS antennas. An updated structural analysis is therefore not required for the proposed modifications.



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

Sincerely,

Kenneth C. Baldwin

cc: Mark D. Boughton, Mayor

Sandy M. Carter, Verizon Wireless



Site Name: Danbury S, CT Tower Height: 69 Ft. rad center

30.42%				posure	aissible Ex	mum Permissible Exposure	otal Percentage of Maxi	Total Percen
6.46%	1	0.0646	69	855	285	3	1900	Verizon
23.97%	0.56733	0.1360	69	1800	200	6	880	Verizon
(%)	(mW/cm^2) (mW/cm^2)	(mW/cm^2)	(feet)	(watts)	(watts)		(MHz)	
Araction of MPE	Maximum Permissable Exposme*	Calculated Power Density	Distance to Target	Total ERP	ERP Per Trans.	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

Absolute worst case scenario, maximum values used.



Swedcom Corporation

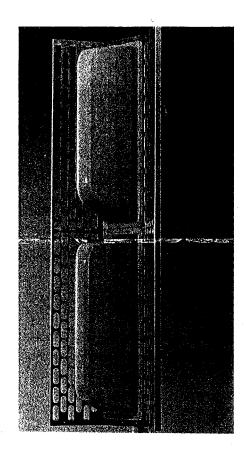
ALP 6014-N

Log-Periodic Reflector Antenna 60 Degrees 14 dBd

Features:

- ☐ Broadbanded. (800-900 MHz)
- □ Low backlobe radiation. Front-to-back ratio better than 30 dB
- □ Low Intermodulation Products.
- □ Low Wind-load.
- □ Low weight.
- ☐ Small size.
- Rugged design.

Please see the following pages including radiation patterns/tables for ALP 6014-N.



Electrical Specifications:

806-896 MHz Frequency range: Impedance: 50 ohm Connector: N-female or 7/8" EIA VSWR: Typ. 1.3:1 max 1.5:1 Polarization: Vertical Gain: 14 dBd Front to back ratio: >30 dB Side-lobe supression: >17 dB Intermodulation: (2x25W): IM3 >146 dB IM5 >153 dB IM7 & IM9 >163 dB Power Rating: 500 W

H-Plane: -3 dB 60° 15° E-Plane: -3 dB **Lightning Protection:**

DC Grounded

Mechanical Specifications:

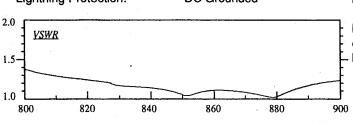
Overall Height: 52 in (1320 mm) Width: 17.3 in (440 mm) Depth: 11.4 in (290 mm) Weight including brackets: 28.9 lbs (13 Kg) Rated wind velocity: (180 Km/h) 113 mph Wind Area (CxA/Front): 5.4 sq.ft (0.5 sq.m) Lateral thrust at rated wind Worst case: 780 N

Materials:

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

Mounting hardware Hot dip galvanized steel clamps: Stainless steel bolts:

Manufactured by: Allgon System AB



DECIBEL

948F65T2ZE-M

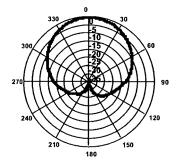
17.2 dBi, Log, No Screen Antenna 1850 -1990 MHz

1850-1990 MHz

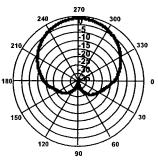
dB Director® MaxFill™

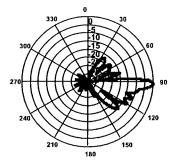
- Exceptional azimuth roll-off reducing soft hand-offs and improving capacity
- Excellent upper side lobe suppression
- Deep null filling below the horizon assures improved signal intensity
- Low profile appearance and low wind loading profile for easier zoning approvals





Azimuth 1950 MHz (Tilt=2)





Vertical 1950 MHz (Tilt=2)

Horizontal 1950 MHz (Tilt=2) **ELECTRICAL**

Frequency (MHz):	1850-1990	Weight:
Polarization:	Vertical	Dimensions (LxWxD):
Gain (dBd/dBi):	15.1/17.2	Dilliensions (EXVXD).
Azimuth BW:	65°	Max. Wind Area:
Elevation BW:	8°	Max. Wind Load (@ 100mph):
Beam Tilt:	2°	Max. Wind Speed:
USLS* (dB):	>16	Radiator Material:
Null Fili* (dB):	<15	Reflector Material:
Front-to-Back Ratio* (dB):	40	Radome Material:
VSWR:	<1.33:1	Mounting Hardware Material:
IM Suppression - Two 20 Watt Carriers:	-150 dBc	Connector Type:
in ouppression - 1 No 20 Watt Garriers.	-150 dBC	Colori

50 Ohms Standard Mounting Hardware: 250 Watts

Downtilt Mounting Hardware:

9.5 lbs (4.3 kg) 48 X 6.5 X 4 in (1219 X 165 X 102 mm) 2.2 ft² (0.2 m²) 88 lbf (391 N) 125 mph (201 km/h)

MECHANICAL

Low Loss Circuit Board Passivated Aluminum ABS, UV Resistant Galvanized Steel

7/16 DIN - Female (Bottom) Light Gray

DB390 Pipe Mount Kit, included DB5098, optional



Impedance:

Max Input Power:

Lightning Protection:

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

DC Ground

Fax: 214.631.4706 Toll Free Tel: 1.800.676.5342 Fax: 1.800.229.4706

Warranty: Five Years Date: 7/24/2003

dblech@andrew.com