TO TRANSTULT

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 www.ct.gov/csc

November 18, 2004

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

RE:

EM-VER-164-041109 - Cellco Partnership d/b/a Verizon Wireless notice of intent to modify an existing telecommunications facility located at 340 Bloomfield Avenue, Windsor, Connecticut.

Dear Attorney Baldwin:

At a public meeting held on November 17, 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 November 9, 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.

Pamela B. Katz, P.E.

Chairman

PBK/laf

c: The Honorable Donald Trinks, Mayor, Town of Windsor Mario Zavarella, Town Planner, Town of Windsor Christopher B. Fisher, Esq., Cuddy & Feder LLP Stephen J. Humes, Esq., McCarter & English LLP Thomas J. Regan, Esq., Brown Rudnick Berlack Israels LLP



JETH C. BALDWIN

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

November 9, 2004

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CONNECTICUT SITING COUNCIL

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 340 Bloomfield Avenue Telecommunications Facility Windsor, Connecticut

Dear Mr. Phelps:

Cellco Partnership d/b/a Verizon Wireless ("Cellco") currently maintains a wireless telecommunications facility, on an existing tower owned by AT&T Wireless, 340 Bloomfield Avenue in Windsor. This facility consists of twelve (12) panel-type cellular antennas at the 128-foot level of the 148-foot tower. Equipment associated with the antennas is located in a shelter near the base of the tower.

The Town of Windsor approved the AT&T tower site and Cellco's shared use of the Bloomfield Avenue facility prior to the resolution of issues involving the Council's jurisdiction over tower siting. Cellco now intends to modify its facility by replacing six (6) cellular antennas with six (6) PCS antennas at the same 128-foot level on the tower. Attached behind Tab 1 are specifications for the existing cellular antennas and the proposed PCS antennas for the Bloomfield Avenue 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 Windsor Town Manager, Peter P. Souza.

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



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S. Derek Phelps November 9, 2004 Page 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 128-foot level on the 148-foot tower.
- 2. The proposed modifications will not affect 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 facility that exceed the Federal Communications Commission (FCC) adopted safety standard. Attached behind <u>Tab 2</u> is a new 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 Peter P. Souza, Town Manager Sandy M. Carter



Vertically Polarized, Panel 62° / 14 dBd

Mechanical specifications

Length	1225	mm	48.2 in
Width	285	mm	11.2 in
Depth	160	mm	6.3 in
4) Weight	6.5	kg .	14.3 lbs
Wind Area	0.349	m².	3.75 ft ²
Wind load			
at 50 m/s	560	N ·	126 lbs

Antenna consisting of aluminum alloy with brass feedlines covered by a UV safe fiberglass radome.

Mounting & Downtilting:

Mounting brackets attach to a pipe diameter of Ø50-160 mm (2.0-6.3 in).

Mounting bracket kit #36210002 Downtilt bracket kit #36114003

Electrical specifications

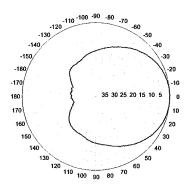
Frequency Range	806-960 MHz
Impedance	50Ω
3) Connector	NÉ, E-DIN
¹⁾ VSWR	≤1.4:1
Polarization	Vertical
¹⁾ Gain	14 dBd
2) Power Rating	500 W
1) Half Power Angle	
H-Plane	62°
E-Plane	14° 14. 3
1) Electrical Downtilt	1.25°
¹⁾ Null Fill	5%
Lightning Protection	Direct Ground

Improvements to mechanical and/or electrical performance of the antenna may be made without notice.

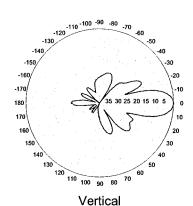
RWA-80014

When ordering, replace "___" with connector type.

Radiation-pattern¹⁾

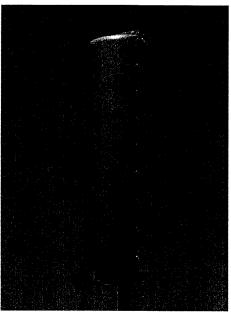


Horizontal



Radiation patterns for all antennas are measured with the antenna mounted on a fiberglass pole.

Mounting on a metal pole will typically improve the Front-to-Back Ratio.





Amphenol Antel's Exclusive 3T (True Transmission Line Technology) Antenna Design:

- A 1 1/4" four-channel extrusion running the entire length of the antenna for unmatched strength and rigidity.
- Durable brass feedline design that eliminates the need for conventional solder joints in the signal path.
- A non-collinear system with access to every radiating element for broad band width and superior performance.
- Air as insulation for virtually no internal signal loss.

Every Amphenol Antel antenna is under a fiveyear limited warranty for repair or replacement.

Antenna can be ordered with bottomfed or center-fed connector. For center-fed connector, order model number RWA-80014CF + connector (NE, E-DIN).

Example: RWA-80014CF E-DIN

806-960 MHz



¹⁾ Typical Values

²⁾Power Rating limited by connector only.

NE indicates an elongated N Connector. E-DIN indicates an elongated DIN Connector.

⁴⁾The antenna weight listed above does not include the bracket weight.

DECIBEL* Base Station Antennas

948F85T2E-M

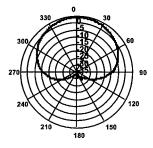
16.1 dBi, Directed Dipole Antenna 1850-1990 MHz

1850-1990 MHz

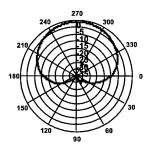
dB Director®
MaxFill™

- 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 1850 MHz (Tilt=2)



270 240 150 150

Vertical 1850 MHz (Tilt=2)



Horizontal 1850 MHz (Tilt=2)

ELECTRICAL		MECHANICAL		
Frequency (MHz):	1850-1990	Weight:	8.5 lbs (3.9 kg)	
Polarization:	Vertical	Dimensions (LxWxD):	48 X 3.5 X 7 in	
Gain (dBd/dBi):	14/16.1	` '	(1219 X 89 X 178 mm)	
Azimuth BW:	85°	Max. Wind Area:	2.3 ft² (0.21 m²)	
Elevation BW:	8°	Max. Wind Load (@ 100mph):	92 lbf (409 N)	
Beam Tilt:	2°	Max. Wind Speed:	125 mph (201 km/h)	
USLS* (dB):	>18	Radiator Material:	Low Loss Circuit Board	
Null Fill* (dB):	15	Reflector Material:	Passivated 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, included	
Lightning Protection:	DC Ground	Downtilt Mounting Hardware:	DB5098, optional	
Opt Electrical Tilt:	0°,4°,6°	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 Date: 1/23/2004 * - Indicates Typical Values

dbtech@andrew.com.

Site Name: Windsor 3, CT Tower Height: 128 ft rad center

of ERP Per Total ERP Trans. Trans. Target Density Exposure*	(watts) (watts) (feet) (mW/cm^2) (mW/cm^2)	200 1800 128 0.0395 0.5793 6.82%	200 600 128 0.0132 1 1.32%	num Permissible Exposure
Number of ERP P Trans. Trans	(watt	9 200	3 200	
Operating Frequency	(MHz)	698	1900	Fotal Percentage of Maxin
Operator		Verizon	Verizon	Total Perc

*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.

