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EM-VER-011-050217

February 17, 2005

Via Hand Delivery

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

RECEIVED
FEB 17 2005

CONNECTICUT
SITING COUNCIL

Re: **Notice of Exempt Modification – Antenna Swap**
8 Hoskins Road
Bloomfield, Connecticut

Dear Mr. Phelps:

Cellco Partnership d/b/a Verizon Wireless (“Cellco”) currently maintains a wireless telecommunications facility, on an existing tower owned by Connecticut Light and Power at 8 Hoskins Road in Bloomfield. This facility consists of twelve (12) panel-type cellular antennas at the 148-foot level of the 180-foot tower. Equipment associated with the antennas is located in a shelter near the base of the tower.

The Connecticut Siting Council (“the Council”) approved Cellco’s shared use of the Hoskins Road facility on July 11, 2001. Cellco now intends to modify its facility by replacing six (6) cellular antennas with six (6) PCS antennas at the same 148-foot level on the tower. Attached behind Tab 1 are specifications for the existing cellular antennas and the proposed PCS antennas for the Hoskins Road 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 Bloomfield Town Manager, Louie Chapman.

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



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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 148-foot level on the 180-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 Tab 2 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: Louie Chapman, Town Manager
Sandy M. Carter



DECIBEL
Base Station Antennas

DB844H90E-XY

Directed Dipole Antenna

806 - 896 MHz
870 - 960 MHz

- Excellent azimuth roll-off - 15-20% reduction in cell-to-cell overlap
- Superior front-to-back ratio
- Low profile, low wind load for easy zoning
- Outstanding field record - with thousands of units deployed world wide

90°

ELECTRICAL

Frequency (MHz) :	806 - 896	870 - 960
Polarization :	Vertical	Vertical
Gain (dBd/dBi) :	12/14.1	12.4/14.5
Azimuth BW (Deg.):	90	90
Elevation BW (Deg.):	15	15
Beam Tilt (Deg.):	0	0
USLS* (dB) :	>15	>15
Front-To-Back Ratio* (dB) :	40	40
VSWR :	<1.35:1	<1.35:1
Max. Input Power (Watts) :	500	500
Impedance (Ohms) :	50	
Lightning Protection :	DC Ground	
Opt. Electrical Tilt :	6	

MECHANICAL

Weight :	6.3 kg (14 lb)
Dimensions (LxWxD) :	1,219 x 165 x 203 mm (48 x 6.5 x 8 in)
Max. Wind Area :	0.10 m ² (1.1 ft ²)
Max. Wind Load (@ 100 mph) :	262.4 N (59 lbf)
Max. Wind Speed :	241 km/h (150 mph)
Hardware Material :	Galvanized Steel
Connector Type :	7-16 DIN - Female (1, Back)
Color :	Light Gray
Alt. Connectors :	N - Type Female
Standard Mounting Hardware :	DB380
Standard Downtilt Mounting Hardware :	DB5083



Andrew Corporation
2601 Telecom Parkway
Richardson, Texas U.S.A 75082-3521
Tel: 214.631.0310

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

* - Indicates Typical Values
1/11/2005
dbtech@andrew.com

Information correct at date of issue but may be subject to change without notice.

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DECIBEL
Base Station Antennas

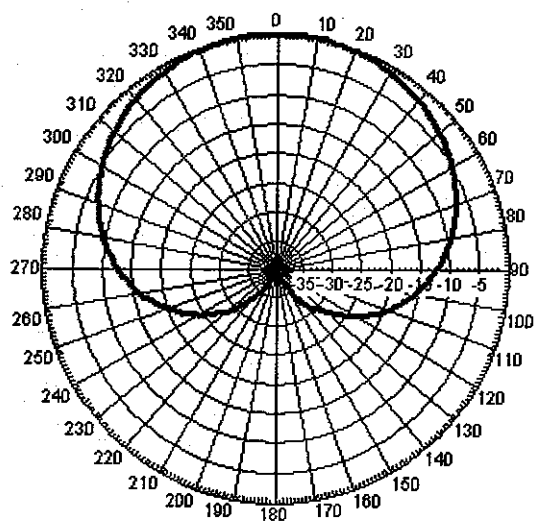
DB844H90E-XY

Directed Dipole Antenna

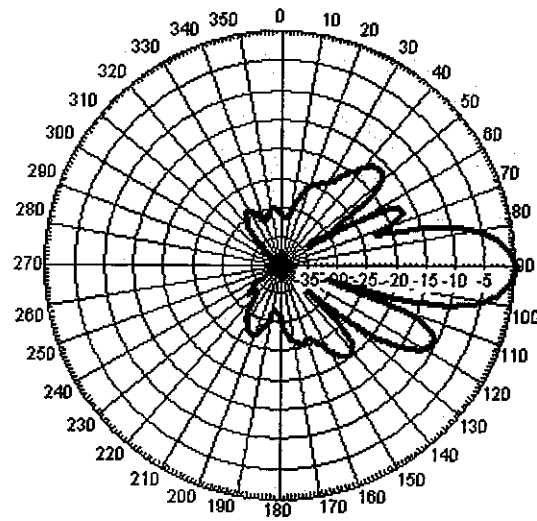
806 - 896 MHz
870 - 960 MHz

AZIMUTH PATTERN

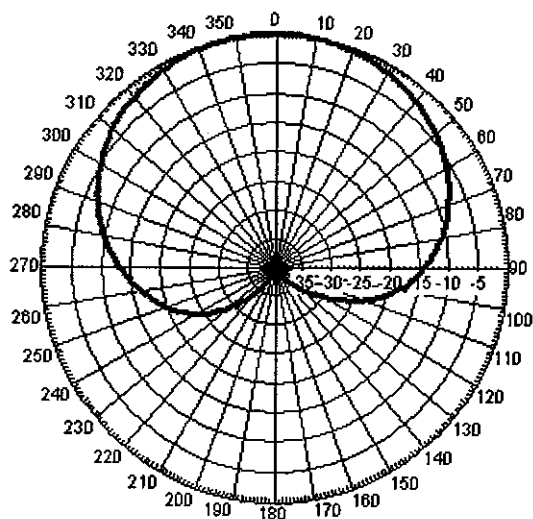
ELEVATION PATTERN



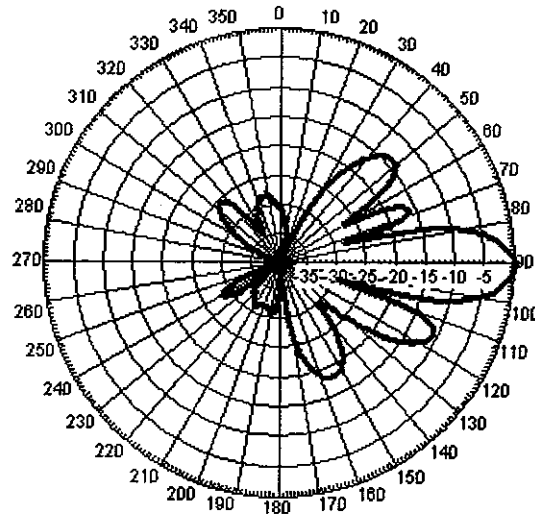
Freq: 860 MHz, Tilt: 0



Freq: 860 MHz, Tilt: 0



Freq: 940 MHz, Tilt: 0



Freq: 940 MHz, Tilt: 0



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1/11/2005

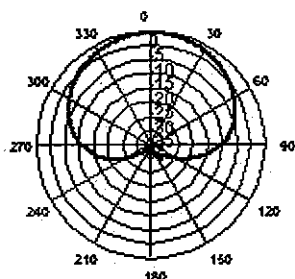
dbtech@andrew.com

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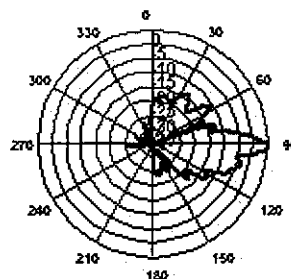
Page 2 of 2

DECIBEL Base Station Antennas	948F85T2E-M 16.1 dBi, Directed Dipole 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		

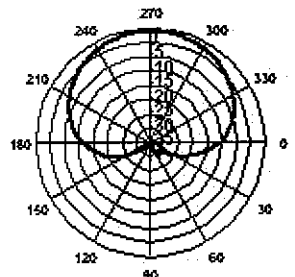
850



Azimuth 1850 MHz (Tilt=2)



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 (1219 X 89 X 178 mm)
Gain (dBd/dBi):	14/16.1	Max. Wind Area:	1.18 ft² (0.11 m²)
Azimuth BW:	85°	Max. Wind Load (@ 100mph):	65 lbf (289 N)
Elevation BW:	8°	Max. Wind Speed:	125 mph (201 km/h)
Beam Tilt:	2°	Radiator Material:	Low Loss Circuit Board
USLS* (dB):	>18	Reflector Material:	Aluminum
Null Fill* (dB):	15	Radome Material:	ABS, UV Resistant
Front-to-Back Ratio* (dB):	40	Mounting Hardware Material:	Galvanized Steel
VSWR:	<1.33:1	Connector Type:	7-16 DIN - Female (Bottom)
IM Suppression - Two 20 Watt Carriers:	-150 dBc	Color:	Light Gray
Impedance:	50 Ohms	Standard Mounting Hardware:	DB390 Pipe Mount Kit, included
Max Input Power:	250 Watts	Downtilt Mounting Hardware:	DB5098, optional
Lightning Protection:	DC Ground	Opt. Mounting Hardware:	DB5094-AZ Azimuth Wall Mount
Opt Electrical Tilt:	0°, 4°, 6°		



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Date: 4/29/2004
* - Indicates Typical Values

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General Power Density

Site Name: Tariffville, CT
Tower Height: 148 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	Fraction of MPE
Verizon	869	9	200	1800	148	0.0296	0.5793	5.10%
Verizon	1900	3	200	600	148	0.0099	1	0.99%
Total Percentage of Maximum Permissible Exposure								6.09%

*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.

