

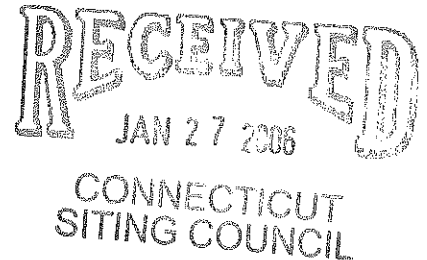
ORIGINAL



208 Gilead Road, Andover, Ct 06232

Pamela B. Katz, P.E.  
Chairperson  
Connecticut Siting Council  
10 Franklin Square  
New Britain Connecticut 06051

EM-NEXTEL-086-060127



Re: Notice of Exempt Modification  
Address: 57 Cook Drive, Montville, CT. 06392

Dear Ms. Katz:

Please be advised that Nextel Communications, Inc. intends to modify an existing site at 57 Cook Drive, Montville. The modification is to add 3 panel antennas to the already existing 9 panel antennas located at the 140 ft level centerline above ground level, creating a total of twelve (12) panel antennas and related equipment at the existing facility.

The existing facility consists of a 180 ft, guyed lattice tower. The coordinates at the site are latitude: 41-28-29N and 72-06-18.4W.

The nine existing Nextel panel antennas (DB844H90E-XY) were approved by the Montville Planning and Zoning Commission prior to Connecticut Siting Council jurisdiction.

Nextel plans to update the existing antenna cluster by adding 3 panel antennas, one to each of the existing 3 sectors resulting in four antennas (DB844H90E-XY) per sector.

The planned modification to 57 Cook Drive is within the activities explicitly provided for in R.C.S.A. 16-50j-72(b)(2).

1. The proposed modification will not increase the height of the tower and will not extend the boundaries of the existing compound area. The enclosed tower drawings (exhibit A) confirm that the planned changes will not increase the overall height of the tower or change the dimensions of the compound.
2. The installation of Nextel equipment, as reflected on the attached site plan, will not require an extension of the site boundaries. The equipment will be located entirely within the existing compound.
3. The proposed modification to the facility will not increase the noise levels at the existing facility by six decibels or more.

4. The operation of the additional antennas will not increase the total radio frequency ® power density, measured at the site boundary, to a level at or above the applicable standard. The “worst-case- RF power density calculations, for a point at the site boundary, are attached hereto as Exhibit B. Nextel has based its calculations regarding other carriers on information obtained from the Connecticut Siting Council files.

For the foregoing reasons, Nextel respectfully submits that the proposed addition of antennas at the 57 Cook Drive facility constitutes an exempt modification under R.C.S.A. 16-50j-72(b)(2).

Respectfully submitted for

SPRINT/NEXTEL COMMUNICATIONS, INC.



By: Marie R. Burbank  
Agent for Sprint/Nextel

Attachments

Cc: Mayor Joseph W. Jaskiewicz, Mayor, Montville, CT.

EXHIBIT B

Montville, CT0728 (57 Cook Rd) - CT Siting Council Power Density Calculations

Nextel Directional Antennas ESMR - 851 MHz at centerline 140' AGL

Note: Power densities are in mW/cm²

Transmitters:	Frequency In MHz	CT Standard mW/cm²	Number of Channels	ERP (W) per channel	Centerline of Tx antennas AGL (ft.)	Power density calculated at base of tower	% of CT Standard
Cingular (from prior file)	880	0.5867	16	100	177	0.0184	3.1000%
	880	0.5867	2	296	177	0.0068	1.2000%
	1930	1.0000	2	427	177	1.0000	1.0000%
Verizon (from prior file)	880	0.56733	9	200	169	0.0227	3.9900%
	1900	1.0000	3	285	169	0.0708	1.0800%
<b>Nextel Digital ESMR**</b>	<b>851</b>	<b>0.5673</b>	<b>12</b>	<b>100</b>	<b>134</b>	<b>0.024018712</b>	<b>4.2336%</b>
Verizon Messaging (from prior file)	152.48	0.10165	1	250	100	0.009	8.8400%
	158.7	0.1058	1	125	100	0.0045	4.2500%
<b>Total % of CT Standard</b>							<b>27.6936%</b>

\*\* lowest Nextel antenna centerline is 140' adjusted to 134' per OET 65 Bulletin for 6' average head height.



PAUL J. FORD AND COMPANY  
STRUCTURAL ENGINEERS  
250 East Broad Street • Suite 1500 • Columbus, Ohio 43215-3708

November 2, 2005

Dewberry  
59 Elm Street  
Suite 101  
New Haven, CT 06510-2047

Attn: Chris Daddi

Re: Existing 190 ft Montville, CT guyed tower  
Dewberry #4206-13, Mohigan  
(PJF job #34805-065)

Dear Chris:

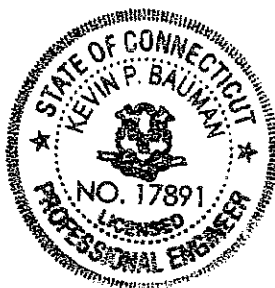
We have received a structural analysis report by URS Corporation Dated August 10, 2004. The structural analysis report completed last year by Richard Sambor PE, of URS indicates that the tower (as it is now loaded) is stressed to 90 percent of it's capacity. That structural analysis considered 50 antenna on the tower at 6 different levels.

We understand that Nextel is proposing to add one DB844H90E-XY fed with 1 5/8 inch coaxial cable to each of the three mounts at elevation 140 ft. In other words, Nextel plans to increase their nine antenna array to a twelve antenna array. Since this tower is currently supporting 50 antenna, the three antenna addition does not represent a large percentage increase in the total antenna loading. It is our opinion that the tower will be able to support the revised antenna loading and a structural analysis is not required at this time. This conclusion is based upon the assumption that the structural analysis by URS last year is correct.

If you have any questions about this project, please call me at (614)-221-6679, extension 2163 or email me at [kbauman@pjfweb.com](mailto:kbauman@pjfweb.com).

Sincerely,  
Paul J. Ford and Company

Kevin P. Bauman, P.E.  
Tower Department Manager  
e-mail: [kbauman@pjfweb.com](mailto:kbauman@pjfweb.com)



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COLUMBUS, OHIO  
(614) 221-6679  
Fax (614) 448 -4105

• ATLANTA, GEORGIA •  
(404) 266-2407  
Fax (404) 869-4608

• ORLANDO, FLORIDA •  
(407) 898-9039  
Fax (407) 897-3662

• [www.pjfweb.com](http://www.pjfweb.com) •



# DB844H90E-XY

Directed Dipole Antenna

**DECIBEL<sup>®</sup>**  
Base Station Antennas

- 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

## 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	50
Lightning Protection :	DC Ground	DC Ground

## 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 <sup>2</sup> (1.1 ft <sup>2</sup> )
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
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  
7/1/2005  
dbtech@andrew.com

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



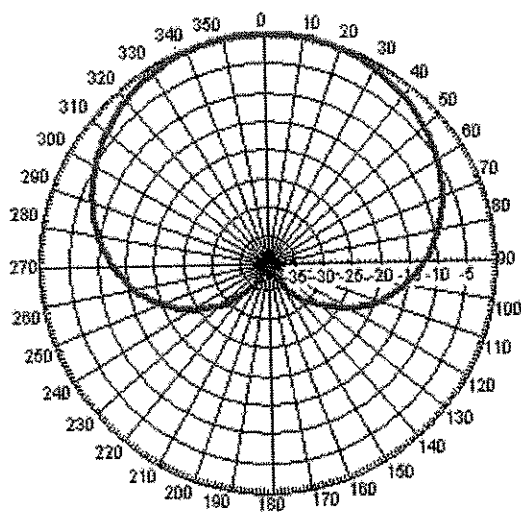
# DB844H90E-XY

Directed Dipole Antenna

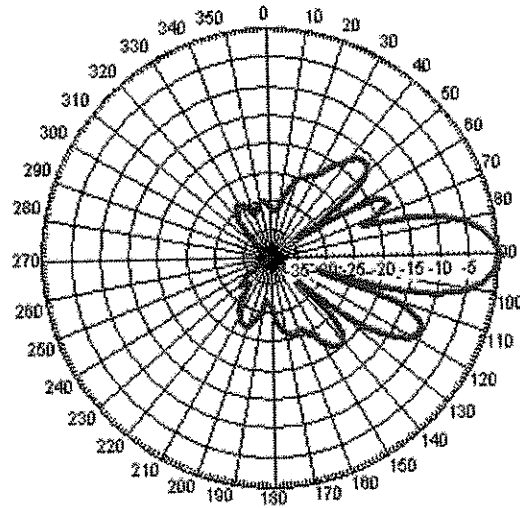
**DECIBEL\***  
Base Station Antennas

## AZIMUTH PATTERN

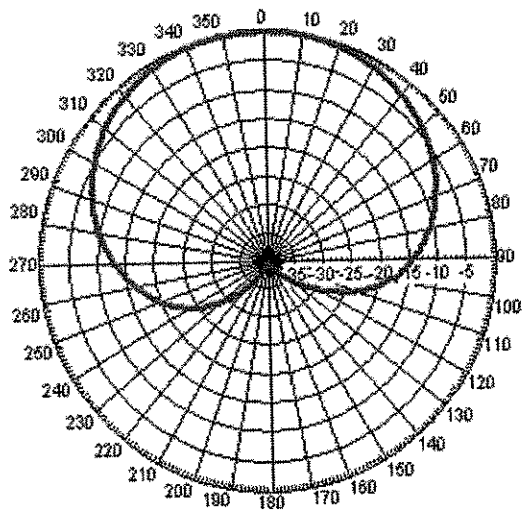
## ELEVATION PATTERN



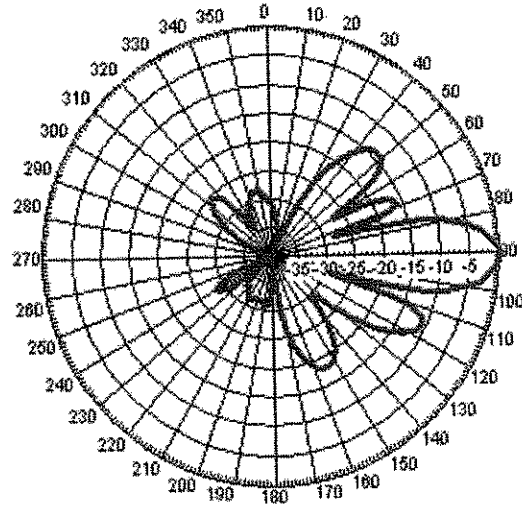
Freq: 860 MHz, Tilt: 0



Freq: 860 MHz, Tilt: 0



Freq: 940 MHz, Tilt: 0



Freq: 940 MHz, Tilt: 0

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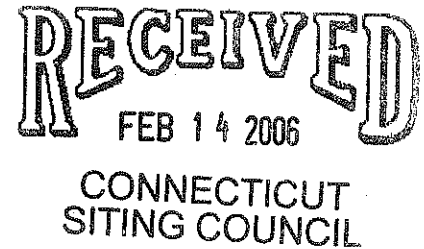
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ORIGINAL



208 Gilead Road, Andover, Ct 06232

February 10, 2006



Michael Perrone  
Connecticut Siting Council  
10 Franklin Square  
New Britain, Connecticut 06051

Re: Notice of Exempt Modification  
Address: 57 Cook Drive, Montville, Ct 06392

Dear Mr Perrone:

Enclosed are 25 copies of the revised submission letter indicating the correct height of the tower as 190 ft. Our previous letter noted the tower was 180 ft which was incorrect.

Thank you for the time you have spent reviewing this application.

Respectfully submitted for

Sprint/Nextel Communications, Inc.

A handwritten signature in cursive script that reads "Marie R. Burbank".

By: Marie R. Burbank  
Agent for Sprint/Nextel

ORIGINAL



208 Gilead Road, Andover, Ct 06232

February 10, 2006

Pamela B. Katz, P.E.  
Chairperson  
Connecticut Siting Council  
10 Franklin Square  
New Britain, Connecticut 06051

RECEIVED  
FEB 14 2006  
CONNECTICUT  
SITING COUNCIL

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Respectfully submitted for

Sprint/Nextel Communications, Inc.



By: Marie R. Burbank  
Agent for Sprint/Nextel

Attachments

Cc: Mayor Joseph W. Jaskiewicz, Mayor, Montville, CT



208 Gilead Road, Andover, Ct 06232

February 8, 2006

RECEIVED  
FEB 14 2006  
CONNECTICUT  
SITING COUNCIL

Michael Perrone  
Connecticut Siting Council  
10 Franklin Square  
New Britain, CT06051

Re: 52 Cook Street, Montville – Exempt Modification

Dear Mike:

Enclosed are 25 corrected copies of the site plan, showing the tower to be 190'.

If you need any other information, please contact me at 860-742-7736

Thank you for bringing the item to my attention.

Very truly yours,

Marie R. Burbank  
Agent for Sprint/Nextel