



# STATE OF CONNECTICUT

## CONNECTICUT SITING COUNCIL

Ten Franklin Square  
New Britain, Connecticut 06051  
Phone: (860) 827-2935  
Fax: (860) 827-2950

July 13, 2000

Julie M. Cashin, Esq.  
Hurwitz & Sagarin, PC  
147 North Broad Street  
Milford, CT 06460-0112

RE: EM-SPRINT-001-000626 - Sprint Spectrum L.P. notice of intent to modify an existing telecommunications facility located at 104 Bunker Hill Road, Andover, Connecticut.

Dear Ms. Cashin:

At a public meeting held on July 11, 2000, 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 June 26, 2000. 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,

  
Mortimer A. Gelston  
Chairman

MAG/RKE/grg

c: Honorable Edward F. Turn, Sr., First Selectman, Town of Andover  
Brian Cosentino, Sprint Spectrum, L.P.  
Steve Howard, Nextel

EM-Sprint001-000626

# HURWITZ & SAGARIN LLC

June 26, 2000

RECEIVED

JUN 26 2000

CONNECTICUT  
SITING COUNCIL

*Hand Delivered*

Mr. Joel M. Rinebold  
Connecticut Siting Council  
10 Franklin Square  
New Britain, Connecticut 06051

Re: Notice of Exempt Modification  
Nextel Telecommunications Facility  
1104 Bunker Hill Road  
Andover, Connecticut

Dear Mr. Rinebold:

On behalf of Sprint Spectrum L.P. ("Sprint PCS"), I am pleased to submit this exempt modification application letter. Enclosed are an original plus twenty (20) copies of a petition requesting a determination that the addition of Sprint's antennas and related equipment to a telecommunications facility located at 104 Bunker Hill Road, Andover, Connecticut, satisfies the requirements set forth in R.C.S.A. §16-50j-72(b)(2). A check in the amount of \$500.00 to cover the filing fee for this petition is also enclosed.

The First Selectman of the Town of Andover, Edward Turn, has been sent notice of this petition by certified mail.

Sincerely,

*Julie M. Cashin*

JULIE M. CASHIN  
JMC/dsw  
Enc.

cc: Edward Turn, First Selectman  
Brian Cosentino, Sprint Spectrum L.P.  
Steve Howard, Nextel Communications of the Mid-Atlantic, Inc.

# HURWITZ & SAGARIN LLC

June 26, 2000

Mr. Joel M. Rinebold  
Executive Director  
Connecticut Siting Council  
10 Franklin Square  
New Britain, CT 06051

RECEIVED

JUN 26 2000

CONNECTICUT  
SITING COUNCIL

**Re: Notice of Exempt Modification  
Nextel Telecommunications Facility  
104 Bunker Hill Road  
Andover, Connecticut**

Dear Mr. Rinebold:

Sprint Spectrum L.P. ("Sprint") hereby requests acknowledgement that Sprint's proposed co-location on a communications tower located at 104 Bunker Hill Road, Andover, Connecticut, ("Andover Facility") constitutes an exempt modification pursuant to R.C.S.A. § 16-50j-72(b)(2). Sprint submits this request for acknowledgment as agent for the tower owner, Nextel Communications of the Mid-Atlantic, Inc. ("Nextel"). A letter of authorization is attached hereto as Exhibit A. Under this request for acknowledgment, Nextel intends to allow Sprint to install antennas and related equipment at this existing telecommunications facility. Please accept this letter as notification, pursuant to R.C.S.A. § 16-50j-73, of modification to an existing telecommunications tower which 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 the First Selectman of Andover.

The existing facility consists of a 180-foot monopole and related equipment located at 104 Bunker Hill Road, Andover, Connecticut. This tower currently supports an antenna array operated by Nextel. The Siting Council reviewed this facility on May 10, 2000 when it approved the application of Verizon Wireless to co-locate on the subject tower.

Sprint plans to attach to the existing tower nine panel antennas each of which measures approximately five feet in height. A letter dated June 20, 2000 from Paul J. Ford And Company Structural Engineers attached hereto as Exhibit B, confirms that the existing structure is capable of supporting Sprint's antennas. Sprint may install up to seven equipment cabinets on a frame near the base of the tower within the existing site

compound. For the following reasons, the proposed modifications to the Andover Facility fall squarely within and satisfy the requirements set forth in R.C.S.A. § 16-50j-72(b)(2):

1. The proposed modifications will not increase the height of the tower. Sprint's antennas will be installed at a centerline of approximately 168 feet above ground level (AGL). Sprint's GPS antenna will be mounted to the tower and will reach a height of 50 feet AGL. The site plan attached as Exhibit C confirms that the proposed Sprint installation will not increase the overall height of the tower.

2. The installation of Sprint equipment near the base of the tower, as reflected on the attached site plan, will not require an extension of the site boundaries. Sprint's proposed equipment location, fencing, access, and utility routing will be located entirely within the existing site.

3. The proposed modifications 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 (RF) power density, measured at the site boundary, to a level at or above the applicable standard. The "worst-case" RF power density calculation for a point at the tower base would be 0.057666 mW/cm<sup>2</sup> for the Sprint antennas. The calculated "worst-case" power density for the combined operations at the site, is 12.26 % of the standard for general population/uncontrolled exposure.

**CT33XC573 - 104 Bunker Hill Road, Andover, CT  
Cumulative Worst Case Power Density Analysis of Sprint PCS, Verizon and Nextel Antennas**

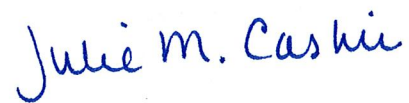
<b>Operator</b>	<b>Operating Frequency</b>	<b>Distance to Target</b>	<b>Calculated Power Density</b>	<b>Maximum Permissible Exposure*</b>	<b>Fraction of MPE</b>
	<b>(MHz)</b>	<b>(feet)</b>	<b>(mW/cm<sup>2</sup>)</b>	<b>(mW/cm<sup>2</sup>)</b>	<b>(%)</b>
<b>Nextel</b>	<b>851</b>	<b>178</b>	<b>0.010226</b>	<b>0.567</b>	<b>1.80%</b>
<b>Verizon</b>	<b>880</b>	<b>158</b>	<b>0.027400</b>	<b>0.583</b>	<b>4.69%</b>
<b>Sprint PCS</b>	<b>1962.5</b>	<b>168</b>	<b>0.057666</b>	<b>1.000</b>	<b>5.77%</b>

**Total Percentage of Maximum Permissible Exposure**

**12.26%**

For the foregoing reasons, Sprint respectfully submits that the proposed addition of Sprint's antennas and equipment at the Andover facility constitutes an exempt modification under R.C.S.A. § 16-50j-72(b)(2).

Sincerely,



Julie M. Cashin

cc: Edward Turn, First Selectman  
Brian Cosentino, Sprint Spectrum L.P.  
Steve Howard, Nextel Communications of the Mid-Atlantic, Inc.

Nextel Communications  
100 Corporate Place, Rocky Hill, CT 06067  
860 513-5400 FAX 860 513-5444

**NEXTEL**

LETTER OF AUTHORIZATION

Municipality: ANDOVER

Tax Assessors Parcel Number: MAP 33 BLOCK 36 LOT 3

Nextel Communications of the Mid-Atlantic, Inc. a Delaware corporation d/b/a Nextel Communications ("Lessor"), the Lessor of a portion of the above referenced parcel, in the Town of Andover, County of Tolland, State of Connecticut (the "Property"), hereby authorizes its Sub-Lessor, Sprint Spectrum L.P. ("Sub-Lessor"), to complete, execute, and/or file any application, form, map, approval, variance, special permit or other land use approval or building permit, required to provide the Sub-Lessor with lawful access to, and use of the Property for purposes of installing, maintaining and operating its wireless telecommunications facility.

By:



Name: Stephen M. Howard

Title: Manager-Real Estate and Zoning

Date: 5/31/00




**Nextel Communications**  
100 Corporate Place, Rocky Hill, CT 06067  
860 513-5400 FAX 860 513-5444

LETTER OF AUTHORIZATION

Municipality: ANDOVER

Tax Assessors Parcel Number: MAP 33 BLOCK 36 LOT 3

Nextel Communications of the Mid-Atlantic, Inc. a Delaware corporation d/b/a Nextel Communications ("Lessor"), the Lessor of a portion of the above referenced parcel, in the Town of Andover, County of Tolland, State of Connecticut (the "Property"), hereby authorizes its Sub-Lessor, Sprint Spectrum L.P. ("Sub-Lessor"), to complete, execute, and/or file any application, form, map, approval, variance, special permit or other land use approval or building permit, required to provide the Sub-Lessor with lawful access to, and use of the Property for purposes of installing, maintaining and operating its wireless telecommunications facility.

By: 

Name: Stephen M. Howard

Title: Manager-Real Estate and Zoning

Date: 5/31/00





PAUL J. FORD AND COMPANY  
STRUCTURAL ENGINEERS  
250 East Broad Street • Suite 500 • Columbus, Ohio 43215

June 20, 2000

SEA Consultants  
2280 Silas Dean Highway  
Suite 302  
Rocky Hill, CT 06067

ATTN: William N. Hardy, P.E.

RE: Proposed Co-location Load for Existing 178' Monopole  
Site: CT-0966 Location: Andover, CT Owner: Nextel Communications  
PJF project number 31000-018

Dear Mr. Hardy:

The existing 178' pole and foundation were designed per the TIA/EIA Structural Standards for Steel Antenna Towers and Antenna Supporting Structures, TIA/EIA-222-F 1996 to support the following antenna load:

- (12) ALP9212N panel antenna on a top mounted 14' low profile platform
- (12) ALP9212N panel antenna on a 14' low profile platform, centerline elevation 170'-0"
- (12) ALP9212N panel antenna on a 14' low profile platform, centerline elevation 160'-0"
- (12) ALP9212N panel antenna on a 14' low profile platform, centerline elevation 150'-0"

The wind speeds used for design, per the TIA/EIA-222-F 1996 standard, were 85 mph and 74 mph plus ½" radial ice. Please refer to the attached pole and foundation drawings (Ref: PJF drawing number 29200-028).

It is our understanding that Sprint PCS wishes to co-locate on this pole. Following is an antenna list showing the existing and future antenna loads, per the original design, and the proposed Sprint PCS co-location load:

- (12) ALP9212N panel antenna on a top mounted 14' low profile platform
- (9) DB980 panel antenna on a 14' low profile platform, centerline elevation 170'-0" (Proposed Sprint PCS co-location load)
- (12) ALP9212N panel antenna on a 14' low profile platform, centerline elevation 160'-0"
- (12) ALP9212N panel antenna on a 14' low profile platform, centerline elevation 150'-0"

The total wind area,  $C_{AA}$ , of (12) ALP9212N panel antennas is greater than the total wind area,  $C_{AA}$ , of (9) DB980 panel antennas. The proposed Sprint PCS antennas (DB980) are to be mounted on a 14' low profile platform at an elevation of 170'-0". The platform type (14' low profile) and mounting elevation (170'-0") are identical to one of the platform type / mounting elevation combinations used for

COLUMBUS, OHIO  
(614) 221-6679  
Fax (614) 221-2540

• 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) •



June 20, 2000  
Page 2 of 2

SEA Consultants

ATTN: William N. Hardy, P.E.

RE: Proposed Co-location Load for Existing 178' Monopole

Site: CT-0966 Location: Andover, CT Owner: Nextel Communications

PJF project number 31000-018

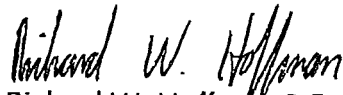
design of the pole. Therefore, by comparison, if the proposed Sprint PCS co-location load is placed on the pole (in addition to the existing and future antenna loads at elevations 178', 160' and 150'), the pole will maintain a minimum wind rating of 85 mph and 74 mph plus ½" radial ice. This conforms to the TIA/EIA-222-F 1996 basic wind speed recommendation of 85 mph and 74 mph plus ½" radial ice for Tolland County.

By review, the existing caisson foundation is capable of supporting the revised pole antenna loading (Refer to Page 1) at wind speeds of 85 mph and 74 mph plus ½" radial ice.

We appreciate this opportunity to be of service to you. Please call me at (614) 221-6679 with any questions.

Sincerely,

PAUL J. FORD AND COMPANY



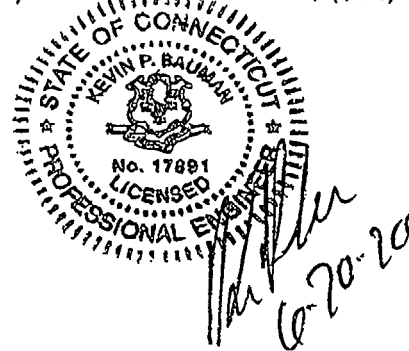
Richard W. Hoffman, P.E.

Project Engineer

e-mail: rhoffman@pjfweb.com

C:\vms\office\WINWORD\LETTERS\31800-018.doc

Attachment



Kevin P. Bauman, P.E.

Project Manager

Connecticut Professional Engineer

e-mail: kbauman@pjfweb.com



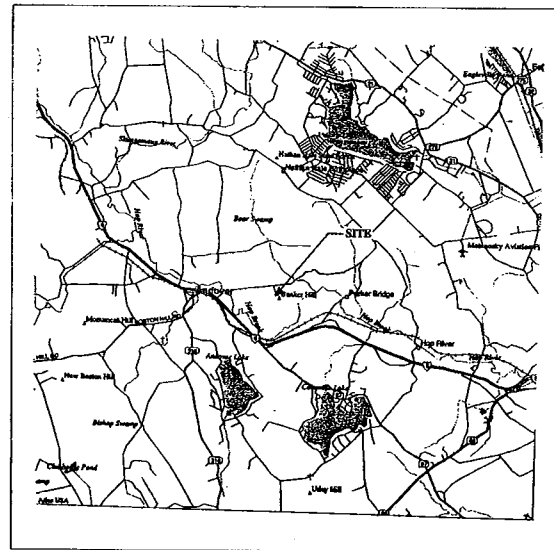
# Sprint PCS

## WIRELESS COMMUNICATION FACILITY SITE # CT33XC573 ANDOVER, CT

### PROJECT INFORMATION

SITE NAME:	ANDOVER
SITE NUMBER:	CT33XC573
DATE PREPARED:	MARCH 24, 2000
TYPE OF BUILD:	CO-LOCATION
SITE ADDRESS:	104 BUNKER HILL ROAD ANDOVER, CT 06232
COUNTY:	TOLLAND
MAP/BLOCK	MAP 33 BLOCK 36 LOT 3
LATITUDE:	41° 44' 17.36"
LONGITUDE:	72° 20' 59.29"
SITE OWNER:	NEXTEL COMMUNICATIONS 100 CORPORATE PLACE ROCKY HILL, CT, 06067 CONTACT: RICK NELLER PHONE:(860)513-5426
SITE CONTACT:	
APPLICANT:	SPRINT PCS CROSSROADS CORPORATE CENTER 1 INTERNATIONAL BLVD., 8TH FLOOR MAHWAH, NJ 07494
CONSTRUCTION MGR.:	PINNACLE SITE DEVELOPMENT, INC 41 SEQUIN DRIVE, 2ND FLOOR GLASTONBURY, CT 06033 CONTACT: STEVE FLORIO PHONE: 860/659-9248
ARCHITECT/ENGINEER:	S E A CONSULTANTS, INC. 750 OLD MAIN ST., SUITE 100 ROCKY HILL, CT 06067 CONTACT: ALAN PELLETIER PHONE: 860/563-7775 x138

April 2000



LOCUS PLAN  
(PLT.8)

### LIST OF DRAWINGS

SHEET NO.	DRAWING TITLE
CSC573	CONNECTICUT SITING COUNCIL



**S E A Consultants Inc.**  
Science/Engineering/Architecture

CAMBRIDGE, MASSACHUSETTS  
CONCORD, NEW HAMPSHIRE

ROCKY HILL, CONNECTICUT  
ROCHESTER, NEW YORK

CT33XC573

