

Daniel F. Caruso Chairman

April 21, 2008

Jennifer Young Gaudet Transcend Wireless 479 Route 17 North Mahwah, NJ 07430

### 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@ct.gov

Internet: ct.gov/csc

RE: **EM-SPRINT-NEXTEL-085-080303** – Sprint Nextel Corporation notice of intent to modify an existing telecommunications facility located at Moose Hill Road, Monroe, Connecticut.

Dear Ms. Gaudet:

The Connecticut Siting Council (Council) hereby acknowledges 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 28, 2008, 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. Please be advised that the validity of this action shall expire one year from the date of this letter. 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.

Executive Directo

SDP/MP

c: Honorable Tom Buzi, First Selectman, Town of Monroe Daniel A. Tuba, Town Administrator, Town of Monroe CT Architectural Towers



## Daniel F. Caruso

### 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@ct.gov Internet: ct.gov/csc

Chairman

March 4, 2008

The Honorable Tom Buzi First Selectman Town of Monroe Town Hall 7 Fan Hill Road Monroe, CT 06468-1800

RE: **EM-SPRINT-NEXTEL-085-080303** – Sprint Nextel Corporation notice of intent to modify an existing telecommunication facility located at Moose Hill Road, Monroe, Connecticut.

Dear Mr. Buzi:

The Connecticut Siting Council (Council) received this request to modify an existing telecommunications facility, pursuant to Regulations of Connecticut State Agencies Section 16-50j-72.

If you have any questions or comments regarding this proposal, please call me or inform the Council by March 18, 2008.

Thank you for your cooperation and consideration.

S. **P**erek Phelps Executive Director

SDP/jb

Enclosure: Notice of Intent

c: Daniel A. Tuba, Planning Administrator, Town of Monroe





479 ROUTE 17 NORTH 2<sup>ND</sup> FLOOR MAHWAH, NJ 07430

PHONE: 201.684.0055 FAX: 201.684.0066

#### EM-SPRINT-NEXTEL-085-080303

#### **VIA OVERNIGHT DELIVERY**

February 28, 2008

MAR 0 3 2003

CONNECTICUT
SITING COUNCIL

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

ORIGINAL

Re:

<u>Sprint Nextel Corporation – exempt modification</u>

Moose Hill Road, Monroe, Connecticut

Dear Mr. Phelps:

On or about November 20, 2007, Sprint Nextel Corporation ("Sprint") submitted an exempt modification for proposed changes to the existing facility at 500/550 Moose Hill Road in Monroe (coordinates 41°19,15.46" N, 73°12′5.15" W). This letter and attachments, submitted on behalf of Sprint, address a further modification to be undertaken in connection with Sprint's implementation of WiMAX technology, and constitute notification pursuant to R.C.S.A. Section 16-50j-72(b)(2). In compliance with R.C.S.A. Section 16-50j-73, a copy of this letter and attachments is being sent to the First Selectman of Monroe.

The changes described in the November 20, 2007 filing will be implemented as described previously. In addition, a second microwave dish, approximately 2.5' in diameter, will be installed on the existing Sprint platform at a height of approximately 148'. Attached is an elevation drawing depicting the additional microwave dish, documentation of the structural sufficiency of the tower to accommodate the revised antenna configuration including the second dish, and a power density calculation reflecting the further modification to Sprint's operations at the site.

The changes to the facility do not constitute a modification as defined in Connecticut General Statutes ("C.G.S.") Section 16-50i(d) because the general physical characteristics of the facility will not be significantly changed. Rather, the planned changes to the facility fall squarely within those activities explicitly provided for in R.C.S.A. Section 16-50j-72(b)(2).

- The height of the overall structure will be unaffected. All Sprint's antennas and dishes will be located on Sprint's platform at the top of the tower, at approximately 148' AGL.
- The proposed additional dish will not have any effect on the site boundaries. No 2. additional cabinet is required for the microwave dish.
- The proposed changes will not increase the noise level at the existing facility by 3. six decibels or more. The incremental effect of the additional dish will be negligible.
- The changes to the facility will not increase the calculated "worst case" power 4. density for the combined operations at the site to a level at or above the applicable standard for uncontrolled environments as calculated for a mixed frequency site. As indicated on the attached power density calculation, Sprint's operations at the site will result in a power density of 20.8136%; the combined site operations will result in a total power density of 51.06%.

Please feel free to call me at (860) 798-7454 with questions concerning this matter. Thank you for your consideration.

Respectfully yours,

Jennifer Young Gaudet

cc: Honorable Tom Buzi, First Selectman, Town of Monroe

Attachments

<u>DIG\_ALERT:</u>
CALL FOR UNDERGROUND UTILITIES PRIOR TO DIGGING: 1-800-922-4455

EMERGENCY: CALL 911

# Sprint Nextel Corp.

ST. JOHNS CEMETERY

SITE NUMBER: CT01YC108/CT03XC364

500 MOOSE HILL RD MONROE, CT 06488

FAIRFIELD COUNTY, CONNECTICUT

SITE TYPE: MONOPOLE

MINOR MODIFICATION OF EXISTING WIRELESS COMMUNICATION SYSTEM CONSISTING OF ADDITION OF EQUIPMENT CABINET(S), SWAPPING OF EXISTING ANTENNAS, ADDITION OF ASSOCIATED CABLES & ADDITION OF A CPS ANTENNA. NO WATER OR SEWER IS REQUIRED. THE SITE IS UNMANNED AND NOT FOR HUMAN HABITATION.

#### PROJECT DESCRIPTION:

PLotted: 2/20/2008 9:50:13

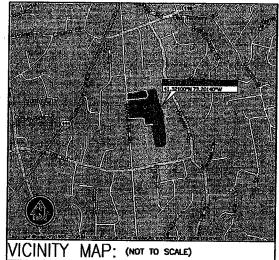
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3:41:57

2/13/2008

CT01YC108-CT03XC364\ACAD\CSC\CSC'S

CT\204-022



I-91 SOUTH TO EXIT 17/CT-15 SOUTH, TO EXIT 58. MERGE ONTO CT-34 W/DERBY AVE. CONTINUE TO FOLLOW CT-34 WEST, TURN LEFT AT BRIDGE STREET, TURN RIGHT AT CT-110/HOWE AVENUE, FOLLOW CT-110 TO LEFT AT MOOSE HILL ROAD.

DRIVING DIRECTIONS:

SHEET #	TITLE	REV.#	DATE
n	TITLE PAGE	2	2/20/08
SC-1	OVERALL SITE LAYOUT	. 2	2/20/08
SC-2	TOWER ELEVATION	2	2/20/08

#### SHEET INDEX:

SITE NAME:	ST. JOHNS CEMETERY
SITE NUMBER:	ST. JOHNS CEMETERY  CTOTYC108/CT03XC36ANIMIC OF CONNECTION  500 MOOSE HILL BY CHER
SITE ADDRESS:	CTD1YC108/CT03XC36AN OF CONNECTION ON MOOSE HILL BOWN ON HER SHER
SITE OWNER:	OPTASITE TOWERS
DADOD 10	No. 23 44 0
PARCEL ID:	051 067 OC 3/3 (1/0)
CURRENT ZONING:	RSC CONTRACTOR CONTRAC
APPLICANT:	RSC SPRINT/NEXTEL CORP CROSSROADS CORPORATE CENTER CROSSROADS CORPORATE CENTER
	international blvd, suite 800 Mahwah, nj 07495
APPLICANT	TRANSCEND WIRELESS, LLC.

APPLICANT REPRESENTATIVE: TRANSCEND WRELESS, LLC. 479 ROUTE 17 NORTH, 2nd FLOOR MAHWAH, NJ 07430

CENTERLINE:

±148' AGL

GROUND ELEVATION:

"±622.4" AMSL 41" 19" 15.46"N

LATITUDE (NAD 83):

LONGITUDE (NAD 83): 73° 12° 5.15" W

PROJECT INDEX:

TRANSCEND WIRELESS, LLC.

479 ROUTE 17 NORTH, 2ND FLOOR MAHWAH, NJ 07430

TO	AUTHORIZED ALTERATION THIS DOCUMENT IS A PLICABLE STATE AND/O	WOLA	TION OF
	REVISED PER COMMENTS		
	REVISED PER COMMENTS		
٥	SUBMITTED FOR REVIEW		
Ma.	Submitted / Revision	App/d	Date
Dra	wn:S08Date	: 11	/13/07

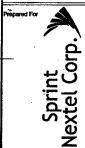
Drawn: S68 Date: 11/13/97
Designed: 9.W Date: 11/13/97
Checked: 9.W Date: 11/13/97

Project Number

miert Title

ST. JOHNS CEMETERY

500 MOOSE HILL RD MONROE, CT 06488



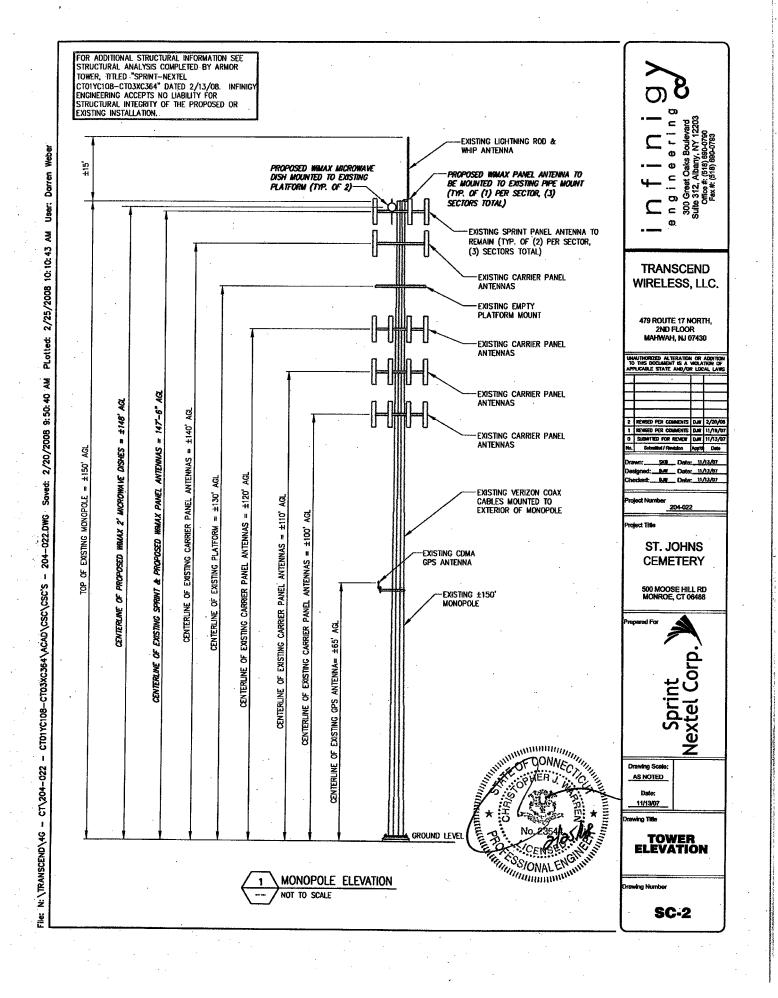
Drawing Scale: AS NOTED

11/13/07

TITLE PAGE

Drawing Numbe

T1





February 13, 2008

Darren Weber Infinigy Engineering 300 Great Oaks Blvd, Suite 312 Albany, NY 12203

RE:

Sprint-Nextel CT01YC108-CT03XC364

Monroe, CT

Darren,

We have completed the structural analysis of the subject tower and have found it to be acceptably loaded within the scope of this analysis to support the proposed antenna loading. The tower was analyzed according to the requirements of EIA 222-F standard for Fairfield County for 85 mph (fastest mile) wind speed with no ice and 74 mph wind with ½" ice.

The tower we analyzed is a 149' Sabre monopole tower consisting of (4) all-welded, polygon tubular sections. Tower diameters range from 2'-0" at the top to 4'-11" at the base. Foundation capacities were predicated on supplied as-designed details.

The antenna loading used in the analysis consisted of the following supplied listing:

- (1) DB404 (7/8" coax) @ 149' for the town
- (6) DB948F85T2E-M, (6)1-5/8" coax inside pole, on low-profile platform @ 147' (Existing Sprint)
- (3) AM-X-WM-17-65-00T, (6)1-5/8" coax outside pole, @ 147' (Proposed Sprint)
- (2) VHLP2-23 dish (1/2" coax on outside of pole) @ 147' (Proposed Sprint)
- (9) DB846H80E-SX, (12)1-1/4" coax inside pole, on low-profile platform @ 140' (Reserved Cingular)
- (1) Vacant low-profile platform @ 130'
- (12) EMS RR9017-02-DPL2 (24)1-5/8" coax on inside, on low-profile platform @ 120' platform for T-Mobile
- (12) DB844H90 (12)1-5/8" coax on inside, on low-profile platform @ 110' for Nextel
- (6) DB844F90A, (6) 948F85T2E-M, (12)1-5/8" coax on outside, on low-profile platform @ 100' for Verizon Wireless.

Feed lines for the proposed antennas are to be installed 7 lines wide on the outside of the pole.

The results of the analysis showed the anchor bolts being acceptably loaded at 101%. All other tower and foundation elements were loaded within allowable limits.

If you have any questions concerning this analysis, please contact us.

Sincerely,

ARMOR TOWER, INC.

Patrick Botimer Structural Engineer

St. John's Cemetery - CT01YC108 (500/550 Moose Hill Road,	108 (500/550		Monroe, CT) - (	Monroe, CT) - Siting Council Power Density Calculations	wer Density Calc	ulations		
Sprint Nextel Directional Antennas ESMR - 2657 MHz 147.5'	SMR - 2657 MH	z 147.5'						
						Note: Power den	Power densities are in mW/ cm²	
Transmitters.	Freditency	brebaet TJ	Nimbor of	CDD AAA	Centerline of	Power density		
	in MHz	mW/ cm²	Channels	ner channel	AG: /# )**	base of terror	0/ of OT O40 10	
					אסב ווני)	Dase of LOwer	% of C. Standard	
WiMAX	2657	1.0000	က	562	147.5	0.0278517	2.79%	
CDMA	1962.5	1.0000	11	411	147.5	0.0746842	7.47%	
Microwave	19500	1.0000	2	2512	148	0.0824336	8.24%	
Microwave	11500	1.0000	2	208	148	0.0232337	2.32%	
From previous filings:per CSC power density data base	er density data k	ase						
Town Antennas (cum.)							receive only	
Cingular							1.61%	
Cingular							1.91%	
Verizon							11.61%	
Verizon							2.44%	
T-Mobile							%60.9	
Nextel							6.58%	
Total % of CT Standard							51.06%	
								-