

ORIGINAL

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NOV 19 2007  
CONNECTICUT  
SITING COUNCIL

CONNECTICUT SITING COUNCIL

EM-SPRINT-NEXTEL-115-071119

In re:

Sprint Nextel Corporation's Notice to Make an Exempt Modification to an Existing Facility at 37 Peach Orchard Road, Prospect (a/k/a East Side Boulevard/Clark Hill Road, Naugatuck) Connecticut. : EXEMPT MODIFICATION NO. \_\_\_\_\_  
: November 19, 2007

NOTICE OF EXEMPT MODIFICATION

Pursuant to Conn. Agencies Regs. §§ 16-50j-73 and 16-50j-72(b), Sprint Nextel Corporation ("Sprint") hereby gives notice to the Connecticut Siting Council ("Council") and the Towns of Prospect and Naugatuck of Sprint's intent to make an exempt modification to an existing guyed wire tower (the "Tower") located at 37 Peach Orchard Road in Prospect (a/k/a East Side Boulevard/Clark Hill Road, Naugatuck),<sup>1</sup> Connecticut. Specifically, Sprint plans to replace its six existing CDMA network antennas with three WiMAX antennas and three new CDMA antennas. Under the Council's regulations (Conn. Agencies Regs. § 16-50j-72(b)), Sprint's plans do not constitute a modification subject to the Council's review because Sprint will not change the height of the tower, will not extend the boundaries of the compound, will not increase the noise levels at the site, and will not increase the total radio frequency electromagnetic radiation power density at the site to levels above applicable standards.

<sup>1</sup> The entrance to the site is located in Prospect; however the property spans both Prospect and Naugatuck. The actual tower is located in Naugatuck. There are two towers on the property; both owned by Channel 20, Inc. – a larger tower and a smaller tower – the smaller tower is the subject of this filing. The Council's database reflects "East Side Boulevard/Clark Hill Road" as the address for this property, whereas Sprint's lease reflects "Clark Hill Road" as the address.

Sprint is currently undertaking an upgrade to its wireless communications system in Connecticut. As part of the upgrade, Sprint is implementing WiMAX technology to enable enhanced wireless data communications. In order to accomplish the upgrade at this site, Sprint plans to add three WiMAX antennas and install additional WiMAX-related electronic equipment at the base of the Tower.

The Tower is a 260-foot guyed wire tower located at 37 Peach Orchard Road in Prospect (a/k/a East Side Boulevard/Clark Hill Road, Naugatuck), Connecticut (latitude 41° 31' 12" N, longitude 73° 00' 54" W). The Tower is owned by Channel 20, Inc. Verizon and Cingular, as well as various other antennas, are currently located on the Tower<sup>2</sup>. Presently, Sprint has six CDMA network antennas spread over three sectors with an antenna centerline at 215 feet. Sprint's base station equipment is located adjacent to the base of the Tower. A site plan with the Tower specifications is attached.

Sprint plans to remove all six of its existing CDMA antennas. Three of the antennas will be replaced by three KMW AM-X-WM-17-65-00T (WiMAX) panel antennas (one per sector). The remaining three antennas will be replaced by two Andrew 932LG65R2E-B CDMA antennas and one Andrew UMWD-0901413-R2DH CDMA antenna. All six new antennas will have the same antenna centerline as the old antennas – 215 feet. Sprint will also add one Micro Pulse global positioning system (GPS) antenna to a new ice bridge with an antenna centerline at 9 feet. Six coaxial cables, 1-5/8" in diameter, will run to the new WiMAX antennas. The six new coaxial cables will be bundled with the existing cables so there will be no increase in the wind

area. To confirm that the Tower can support these changes, Sprint commissioned Clough Harbour & Associates, LLP to perform a structural analysis of the Tower (attached). According to the structural analysis dated November 8, 2007, “the existing structure and mounts are capable of supporting the proposed loads.”

Within the existing compound Sprint will install two WiMAX radio and power cabinets on a new 6-foot by 7-foot concrete slab. The new equipment slab will be adjacent to the existing equipment pad. A new 5-foot 1-inch high ice bridge will connect the new WiMAX equipment to Sprint’s existing ice bridge. Excluding brief, minor, construction-related noise during the removal and replacement of the antennas and the installation of the equipment cabinets, Sprint’s changes to the Tower will not increase noise levels at the site.

The addition of the new WiMAX and CDMA antennas will not adversely impact the health and safety of the surrounding community or the people working on the Tower. The total radio frequency exposure measured around the Tower will be well below the National Council on Radiation Protection and Measurements’ (“NCRP”) standard adopted by the Federal Communications Commission (“FCC”). The worst-case power density analysis for the WiMAX antennas, measured at the base of the Tower, indicates that the WiMAX antennas will emit 1.3109 % of the NCRP’s standard for maximum permissible exposure, and the new CDMA antennas, 3.5151 %. A cumulative power density analysis indicates that together, all of the antennas on the Tower will emit only 15.5560 % of the NCRP’s standard for maximum permissible exposure. Therefore, the power density levels will be well below the FCC mandated

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<sup>2</sup> T-Mobile intends to locate on the Tower and has been included in the power density analysis. However, T-Mobile

radio frequency exposure limits in all locations around the Tower, even with extremely conservative assumptions. The power density analysis is attached.

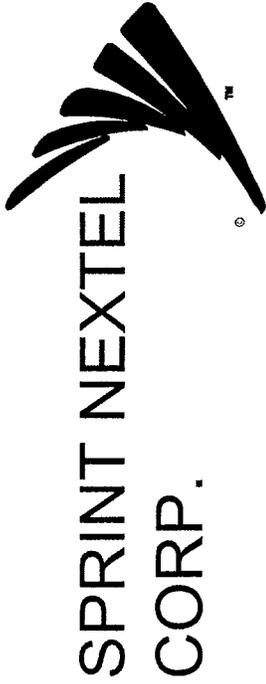
In conclusion, Sprint's proposed plan to remove its six existing CDMA antennas, add three WiMAX antennas, add three new CDMA antennas and add WiMAX associated base station equipment does not constitute a modification subject to the Council's jurisdiction because Sprint will not increase the height of the Tower, will not extend the boundaries of the site, will not increase the noise levels at the site, and the total radio frequency electromagnetic radiation power density will stay within all applicable standards. *See* Conn. Agencies Regs. § 16-50j-72.

Sprint Nextel Corporation

By:   
Thomas J. Regan  
Brown Rudnick Berlack Israels LLP  
185 Asylum Street, CityPlace I  
Hartford, CT 06103-3402  
Email - tregan@brownrudnick.com  
Phone - 860.509.6522  
Fax - 860.509.6622

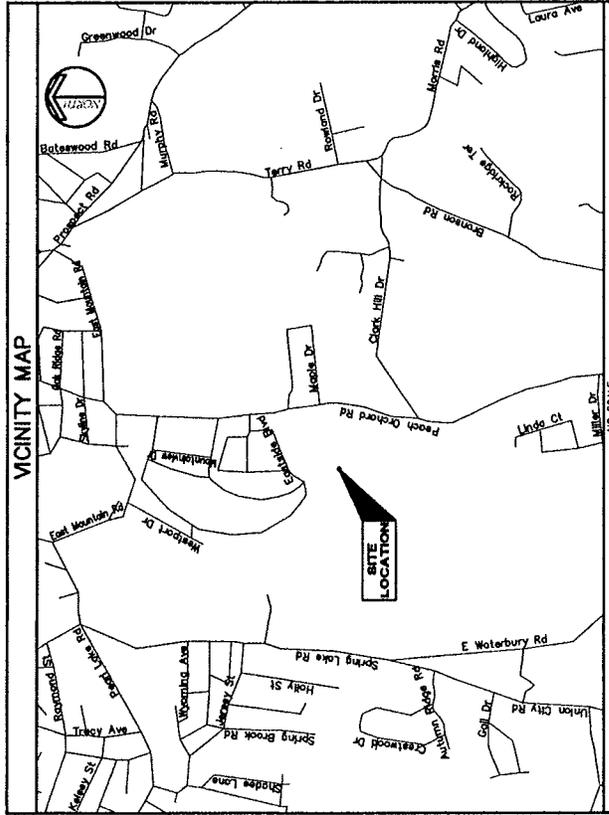
# 40245542 v1 - MERCIECM - 025064/0015

not yet begun construction and therefore is not included on the site plan.



**SMALLER WTXX TOWER  
CT01YC315 / CT03XC025  
37 PEACH ORCHARD RD  
PROSPECT, CT 06712**

**NOT FOR CONSTRUCTION**



**DRIVING DIRECTIONS**

FROM 100 CORPORATE PLACE, ROCKY HILL, CT:  
TAKE I-84 WEST TO EXIT 23, HAMILTON AVENUE. TURN LEFT AT THE EXIT AND ONTO RTE. 69. TRAVEL STRAIGHT FOR 0.8 MILES AND AT THE TOP OF THE HILL TURN RIGHT ONTO PEACH ORCHARD ROAD. SITE IS 0.5 MILES DOWN ON THE RIGHT. SITE IS AT THE FIRST TOWER AT THE END OF THE DRIVEWAY.

PROJECT INDEX	
SITE NUMBER:	CT01YC315 / CT03XC025
SITE NAME:	SMALLER WTXX TOWER
SITE ADDRESS:	37 PEACH ORCHARD RD PROSPECT, CT 06712
APPLICANT:	SPRINT NEXTEL CORP. 1 INTERNATIONAL BLVD., SUITE 800 MAHWAH, NJ 07495
APPLICANT REPRESENTATIVE:	TRANSCEND WIRELESS, LLC 479 ROUTE 17 NORTH, 2ND FLOOR MAHWAH, NJ 07430
CONTACT:	JASON DEIBERT (347) 284-8617
PROPERTY OWNER:	CHANNEL 20 INC. C/O WTIC-TV ONE CORPORATE CENTER HARTFORD, CT 06103
JURISDICTION:	CONNECTICUT SITING COUNCIL
TAX MAP/LOT:	206/138
ZONING DISTRICT:	RA1
CORDINATES:	41° 31' 12"N (41.5200 N)
LONGITUDE:	73° 00' 54"W (73.0150 W)

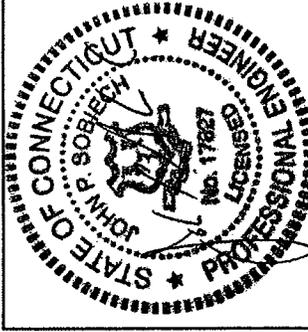
SHEET INDEX			
SHEET NO:	SHEET TITLE	REVISION HISTORY	
		NO:	DATE
T01	TITLE SHEET	1	11 / 14 / 07
SC01	COMPOUND PLAN	1	11 / 14 / 07
SC02	TOWER ELEVATION	1	11 / 14 / 07

APPLICANT:  
**SPRINT NEXTEL CORP.**  
1 INTERNATIONAL BLVD, SUITE 800  
MAHWAH, NJ 07495

**TRANSCEND WIRELESS, LLC**  
479 ROUTE 17 NORTH,  
2ND FLOOR  
MAHWAH, NJ 07430

**CHA**  
Clough Harbord & Associates LLP  
11 Winthrop Circle, PO Box 5269 - Albany, NY 12205-0269  
Main: (518) 453-1500 • www.cloughharbord.com  
CHA PROJECT NO:  
**17181 - 3046 - 1001**

SUBMITTAL			
NO.	10/23/07	ISSUED FOR SITING COUNCIL	
BY:	PAL	CHK: RJT	APP'D: JFS
	11/14/07	REISSUED FOR SITING COUNCIL	
BY:	KRR	CHK: RJT	APP'D: JFS



IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

SITE ID:  
**CT01YC315-CT03XC025**  
SITE NAME:  
**SMALLER WTXX TOWER**  
SITE ADDRESS:  
**37 PEACH ORCHARD RD  
PROSPECT, CT  
06712**  
NEW HAVEN COUNTY

SHEET TITLE  
**TITLE SHEET**

SHEET NUMBER  
**T01**

APPLICANT:  
**SPRINT NEXTEL  
 CORP.**  
 1 INTERNATIONAL BLVD, SUITE 800  
 MANHATTAN, NJ 07938

**TRANSCEND WIRELESS, LLC**  
 479 ROUTE 17 NORTH,  
 2ND FLOOR  
 MAHWAH, NJ 07430

Drawing Copyright © 2007 Clough Harbour & Associates LLP  
**CHA**  
 CLOUGH HARBOUR & ASSOCIATES LLP  
 31 Wilmette Circle, PO Box 5298 - Albany, NY 12205-0298  
 Main: (518) 432-4300 - Fax: (518) 432-4301  
 CHA PROJECT NO:  
**17181 - 3048 - 1601**

SUBMITTAL			
NO.	DATE	ISSUED FOR	STATUS
0	10/23/07	ISSUED FOR SITING COUNCIL	
	BY: PAL	CHK: RJT	APPD: JPS
1	11/14/07	REISSUED FOR SITING COUNCIL	
	BY: ARR	CHK: RJT	APPD: JPS

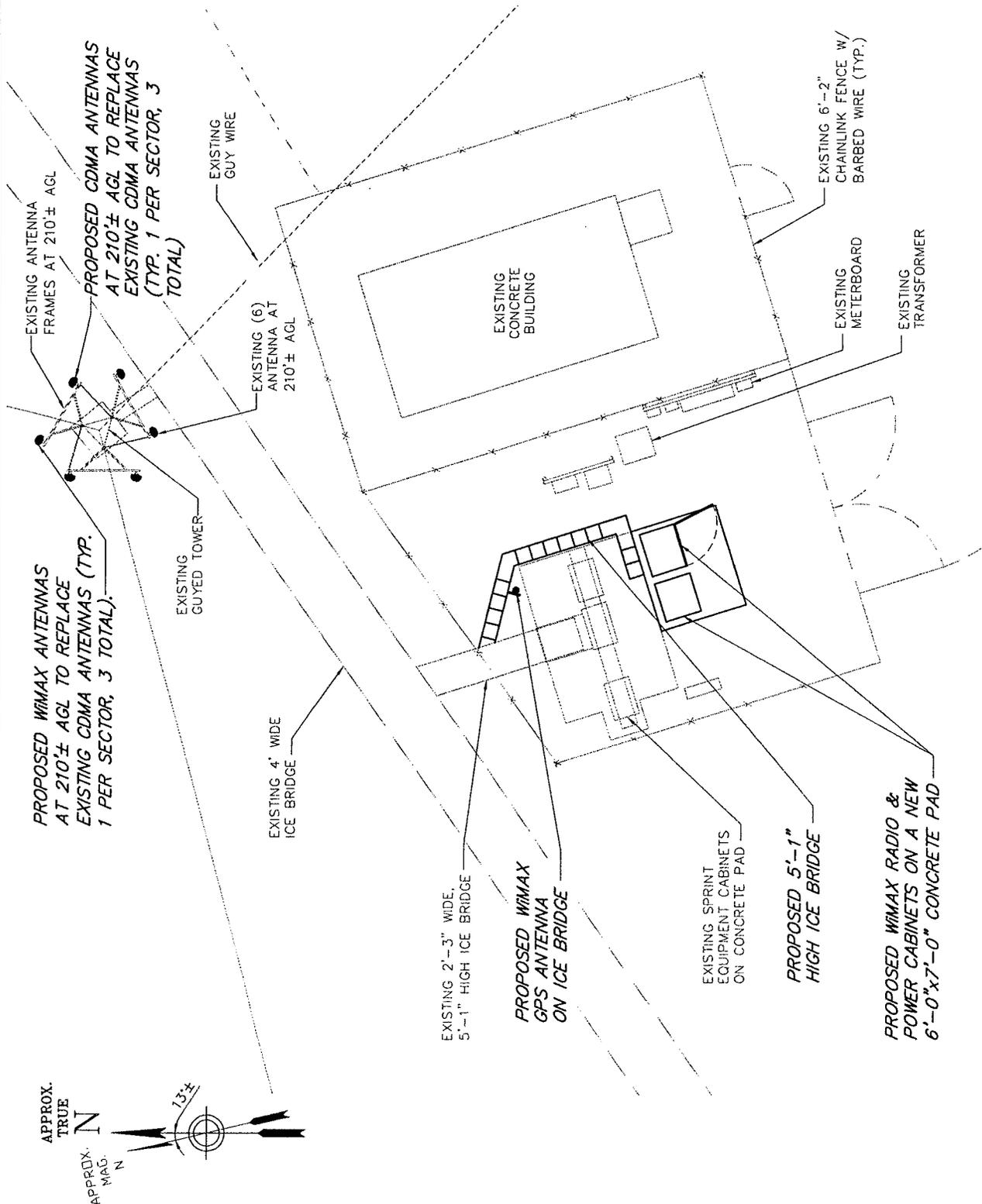


IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

SITE ID:  
**CT01YC315-CT03XC025**  
 SITE NAME:  
**SMALLER WTXW TOWER**  
 SITE ADDRESS:  
**37 PEACH ORCHARD RD  
 PROSPECT, CT  
 06712  
 NEW HAVEN COUNTY**

SHEET TITLE  
**COMPOUND PLAN**

SHEET NUMBER  
**SC01**



ANTENNA AZIMUTHS:  
 SECTOR (1) = 30°  
 SECTOR (2) = 150°  
 SECTOR (3) = 280°



**NOT FOR CONSTRUCTION**

APPLICANT:

**SPRINT NEXTEL  
CORP.**

1 INTERNATIONAL BLVD, SUITE 800  
MAHWAH, NJ 07495

**TRANSCEND WIRELESS, LLC**

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

Drawing Copyright © 2007 Clough Harbour & Associates, LLP



**Clough Harbour & Associates LLP**  
18 Wilmette Circle, PO Box 5208 - Albany, NY 12205-0208  
Albany, NY 12211-1043-000 - www.cloughharbour.com

CHA PROJECT NO:  
**17161 - 3046 - 1601**

SUBMITTAL			
NO.	DATE	ISSUED FOR	SITING COUNCIL
0	10/23/07	BY: PAL	CHK: RJT APP'D: JPS
1	11/14/07	BY: KRR	CHK: RJT APP'D: JPS

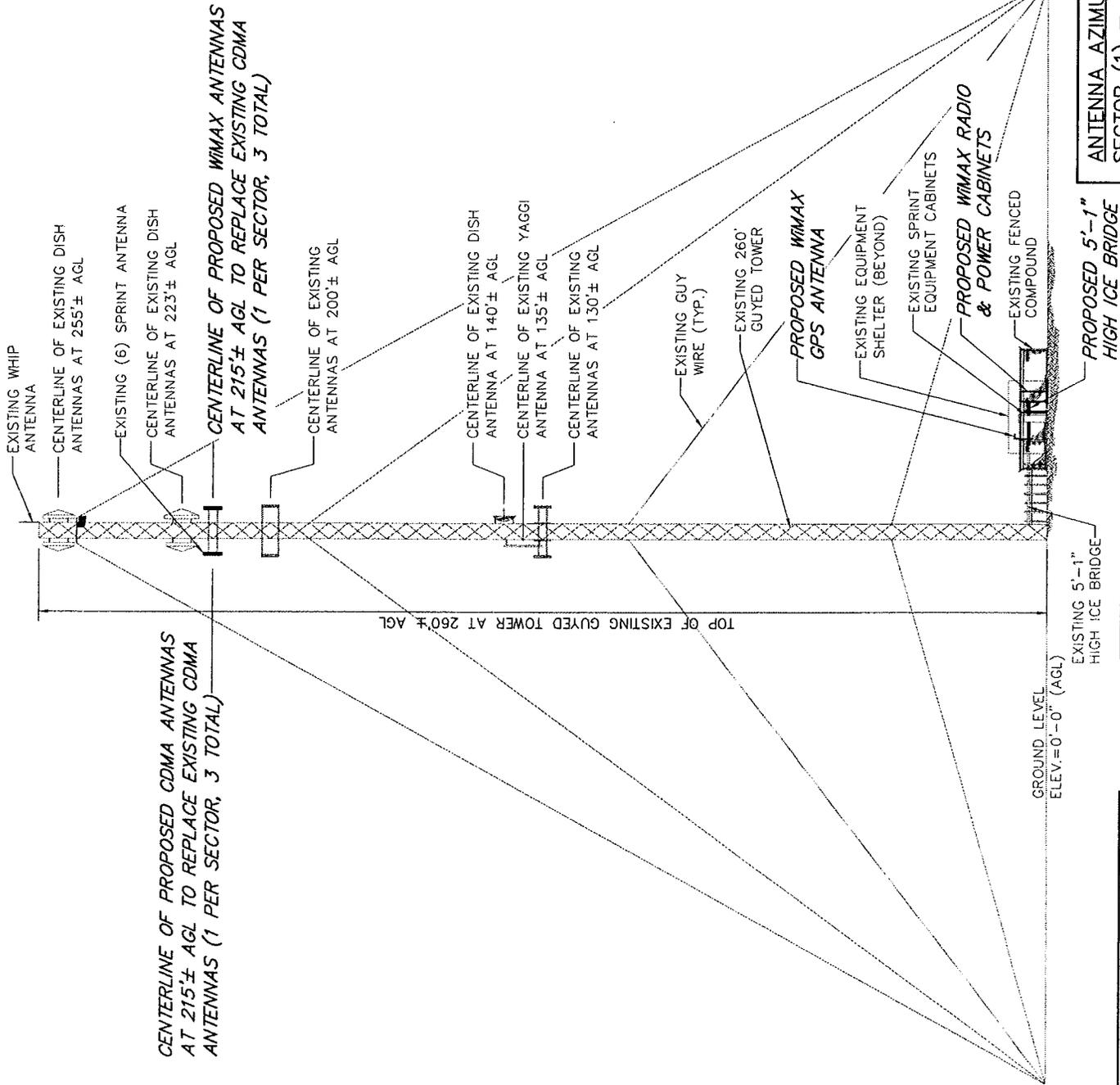


IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

**SITE ID:** CT01YC315-CT03XC025  
**SITE NAME:** SMALLER WTX TOWER  
**SITE ADDRESS:** 37 PEACH ORCHARD RD  
 PROSPECT, CT 06712  
 NEW HAVEN COUNTY

**SHEET TITLE**  
TOWER ELEVATION

**SHEET NUMBER**  
SC02



**ANTENNA AZIMUTHS:**  
 SECTOR (1) = 30°  
 SECTOR (2) = 150°  
 SECTOR (3) = 280°

SITE ELEVATION	
1	-

NO SCALE

**NOT FOR CONSTRUCTION**



CLOUGH HARBOUR & ASSOCIATES LLP

November 8, 2007

Mr. Jason Deibert  
Transcend Wireless, LLC  
479 Route 17 North, 2nd Floor  
Mahwah, NJ 07430

**RE: Structural Review – CT01YC315-CT03XC025 – Smaller WTX Tower  
Sprint Nextel Corp.  
Located in Prospect, CT  
CHA File No.: 17181-3048-1203**

Dear Mr. Deibert:

Clough Harbour & Associates LLP has completed a structural review of the proposed installation at the above referenced site. Our review is based on the following information:

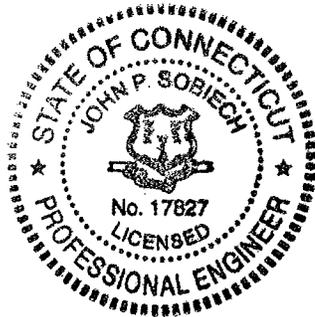
- Proposed equipment information provided by Transcend.
- A site visit by CHA on October 4, 2007.
- A Previous Analysis by Paul J. Ford and Company dated May 19, 2005.

The proposed installation consists of:

- Swapping out three (3) existing CDMA antennas with three (3) proposed KMW AM-X-WM-17-65-00T WiMAX antennas at an antenna centerline elevation of 215' with six (6) 1-5/8" coaxial cables. Bundle proposed cables with existing so that there will be no increase in wind area.
- Swapping out two (2) existing CDMA antennas with two (2) proposed Andrew 932LG65R2E-B CDMA antennas at an antenna centerline elevation of 215'.
- Swapping out one (1) existing CDMA antenna with one (1) proposed Andrew UMWD-0901413-R2DH CDMA antenna at an antenna centerline elevation of 215'.
- Adding one (1) Micro Pulse GPS antenna to proposed ice bridge at an antenna centerline elevation of 9' with one (1) 1/2" coaxial cable.

It is our opinion that the existing structure and mounts are capable of supporting the proposed loads. This opinion is based on the method of installation, and the existing structural conditions identified at the time of our field visit.

If you have any questions or comments relating to this matter please do not hesitate to contact our office.



Very truly yours,

**CLOUGH HARBOUR & ASSOCIATES LLP**

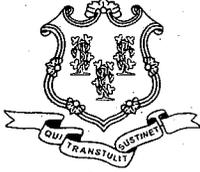
*John P. Sobiech*  
John P. Sobiech, P.E.  
Partner

/am

W:\Transcend\17181\Sites\3048-CT01YC315-CT03XC025\Struct\Structural Review Letter.doc

**WTXX Small Tower CT01YC315 (37 Peach Orchard Rd., Prospect; aka East Side Boulevard/Clark Hill Road, Naugatuck) - Siting Council Power Density Calculations**

Sprint Nextel Directional Antennas ESMR - 2657 MHz 215'									
Transmitters:	Frequency in MHz	CT Standard mW/cm <sup>2</sup>	Number of Channels	ERP (W) per channel	Centerline of Tx antennas AGL (ft.)**	Power density calculated at base of tower	Note: Power densities are in mW/cm <sup>2</sup>		
WiMAX	2657	1.0000	3	562	215	0.0131087	1.3109%		
CDMA	1962.5	1.0000	11	411	215	0.0351508	3.5151%		
<b>From previous filings: per CSC power density data base</b>									
Verizon							2.9000%		
Verizon							0.5700%		
WTXX							0.2600%		
Cingular							4.2500%		
Cingular							1.8000%		
Prospect Police							0.3200%		
T-Mobile							0.6300%		
<b>Total % of CT Standard</b>							<b>15.5560%</b>		



# 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](mailto:siting.council@ct.gov)

Internet: [ct.gov/csc](http://ct.gov/csc)

Daniel F. Caruso  
Chairman

December 11, 2007

Thomas J. Regan, Esq.  
Brown Rudnick Berlack Israels LLP  
185 Asylum Street, CityPlace I  
Hartford, CT 06103-3402

RE: **EM-SPRINT-NEXTEL-088-071119** - Sprint Nextel Corporation notice of intent to modify an existing telecommunications facility located at 37 Peach Orchard Road, Prospect, Connecticut.

Dear Attorney Regan:

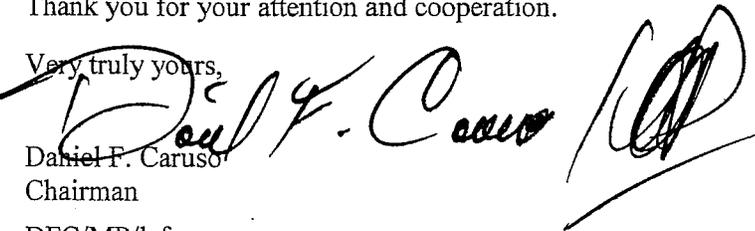
At a public meeting held on November 29, 2007, the Connecticut Siting Council (Council) acknowledged your notice to modify this existing telecommunications facility, pursuant to Section 16-50j-73 of the Regulations of Connecticut State Agencies.

The proposed modifications are to be implemented as specified here and in your notice dated November 19, 2007, 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.

Very truly yours,

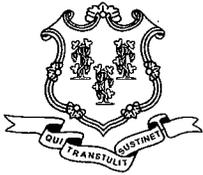
  
Daniel F. Caruso  
Chairman

DFC/MP/laf

c: The Honorable Robert J. Chatfield, Mayor, Town of Prospect  
William J. Donovan, Zoning Enforcement Officer, Town of Prospect  
Channel 20, Inc.



CONNECTICUT SITING COUNCIL  
Affirmative Action / Equal Opportunity Employer



Daniel F. Caruso  
Chairman

# 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](mailto:siting.council@ct.gov)

Internet: [ct.gov/csc](http://ct.gov/csc)

November 19, 2007

The Honorable Robert J. Chatfield  
Mayor  
Town of Prospect  
Town Office Building  
36 Center Street  
Prospect, CT 067121699

RE: **EM-SPRINT-NEXTEL-115-071119** - Sprint Nextel Corporation notice of intent to modify an existing telecommunications facility located at 37 Peach Orchard Road, Prospect, Connecticut.

Dear Mayor Chatfield:

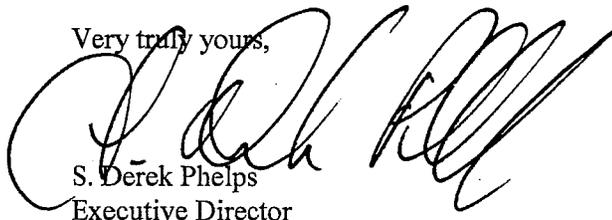
The Connecticut Siting Council (Council) received this request to modify an existing telecommunications facility, pursuant to Regulations of Connecticut State Agencies Section 16-50j-72.

The Council will consider this item at the next meeting scheduled for November 29, 2007, at 1:30 p.m. in Hearing Room One, Ten Franklin Square, New Britain, Connecticut.

If you have any questions or comments regarding this proposal, please call me or inform the Council by November 28, 2007.

Thank you for your cooperation and consideration.

Very truly yours,



S. Derek Phelps  
Executive Director

SDP/cm

Enclosure: Notice of Intent

c: William J. Donovan, Zoning Enforcement Officer, Town of Prospect