



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

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-051-071119** - Sprint Nextel Corporation notice of intent to modify an existing telecommunications facility located at 3965 Congress Street, Fairfield, Connecticut.

Dear Attorney Regan:

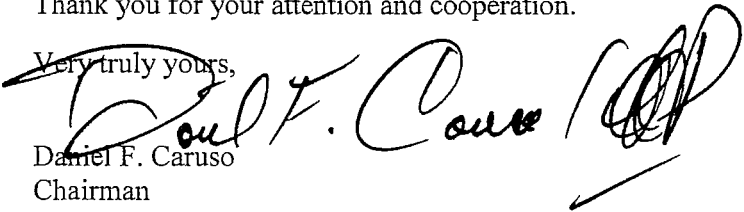
At a public meeting held on November 29, 2007, the Connecticut Siting Council (Council) acknowledged your notice to modify this existing telecommunications facility, pursuant to Section 16-50j-73 of the Regulations of Connecticut State Agencies.

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 Kenneth A. Flatto, First Selectman, Town of Fairfield
Joseph E. Devonshuk, Town Planner, Town of Fairfield
Fairfield Fire Department



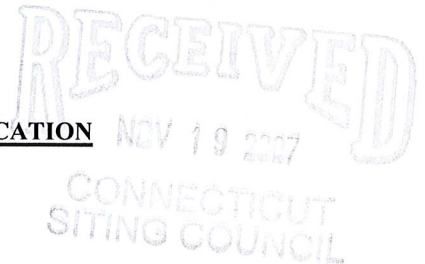
Affirmative Action / Equal Opportunity Employer

CONNECTICUT SITING COUNCIL

In re:

Sprint Nextel Corporation's Notice to Make an Exempt Modification to an Existing Facility at 3965 Congress Street in Fairfield, 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 Town of Fairfield of Sprint's intent to make an exempt modification to an existing monopole (the "Tower") located at 3965 Congress Street in Fairfield, Connecticut. Specifically, Sprint plans to add three WiMAX antennas to its current antenna array. 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.

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 to one of its existing antenna configurations and install additional WiMAX-related electronic equipment at the base of the Tower.

The Tower is a 150-foot monopole located on the Fairfield Fire Department's property at 3965 Congress Street in Fairfield, Connecticut (latitude 41° 11' 14.999" N, longitude 73° 17' 56.979" W). The Tower is owned by the Town of Fairfield. Cingular, Omnipoint (T-Mobile), Verizon and the Town of Fairfield have antennas located on the Tower. Currently, Sprint has twelve iDEN network antennas with a centerline at 148 feet located on the Tower and six CDMA network antennas with an antenna centerline at 138 feet. Sprint's equipment cabinets are located adjacent to the base of the Tower. A site plan with the Tower specifications is attached.

Sprint plans to install three KMW AM-X-WM-17-65-00T (WiMAX) antennas on the three existing empty pipe mounts (one per sector) with the same antenna centerline (138 feet) as the existing CDMA antennas. Six additional coaxial cables with a diameter of 1-5/8" will be mounted on the inside of the monopole to support the new WiMAX antennas. In addition, Sprint will also install one Micro Pulse 58532A L1 WiMAX global positioning system (GPS) antenna on a new pipe mount with a centerline of 40 feet. The GPS antenna will also require the addition of one 1/2" coaxial cable mounted on the inside of the monopole. To confirm 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 13, 2007, "the existing tower superstructure is capable of supporting the existing and proposed loads."

Sprint will also install one WiMAX radio cabinet to a modified steel frame on the existing concrete slab next to Sprint's existing equipment cabinets. The WiMAX power cabinet will be located on a new steel frame on top of a 1'-5" by 2'-10" concrete slab addition next to the existing equipment pad. Finally, Sprint will upgrade its power service by adding one power protection cabinet (PPC) and expanding its meter bank. None of the proposed additions will increase the size of the compound. Furthermore, excluding brief, minor, construction-related noise during the addition of the antennas and the installation of the additional ground equipment, Sprint's changes to the Tower will not increase the noise level at the site.

The addition of the new WiMAX antennas to Sprint's existing antenna array 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 3.18% of the NCRP's standard for maximum permissible exposure. A cumulative power density analysis indicates that together, all of the antennas on the Tower will emit only 27.76% of the NCRP's standard for maximum permissible exposure. Therefore, the power density levels will be well below the FCC mandated 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 add three WiMAX antennas and associated WiMAX equipment at the site 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

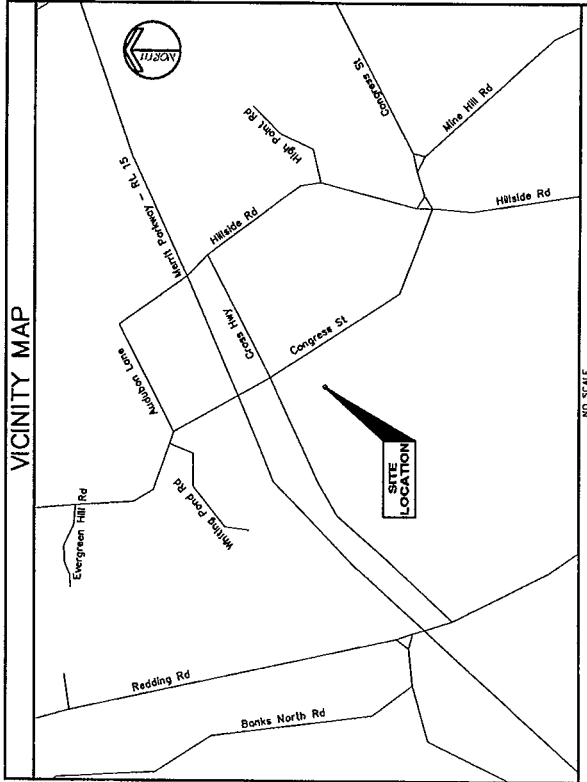
40245525 v1 - MERCIECM - 025064/0015



**SPRINT NEXTEL
CORP.**

**FAIRFIELD FIRE DEPARTMENT
CT01YC351 / CT03XC385
3965 CONGRESS STREET
FAIRFIELD, CT 06824**

NOT FOR CONSTRUCTION



DRIVING DIRECTIONS

FROM 100 CORPORATE PLACE, ROCKY HILL, CT:
GO SOUTH ON CORPORATE PLACE AND TURN LEFT ON WEST ST. MERGE RIGHT ON I-91(S) TOWARD NEW HAVEN. TAKE EXT 17(W, CROSS PARKWAY)/CT-15(S). GO SOUTH ON CT-15 TO EXIT 44 TOWARD CT-58/FAIRFIELD/REDDING. TURN LEFT ON CONGRESS ST. TURN LEFT ON BLACK ROCK TPKE/CT-58. TURN RIGHT ON CONGRESS ST. THE SITE IS ON YOUR LEFT JUST BEFORE CROSS HWY.

PROJECT INDEX

SITE NUMBER:	CT01YC351 / CT03XC385
SITE NAME:	FAIRFIELD FIRE DEPARTMENT
SITE ADDRESS:	3965 CONGRESS STREET FAIRFIELD, CT 06824
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:	TOWN OF FAIRFIELD OFFICE OF FIRST SELECTMAN 725 OLD POST ROAD FAIRFIELD, CT 06430
JURISDICTION:	CONNECTICUT SITING COUNCIL
TAX MAP/LOT:	170/41
ZONING DISTRICT:	AAA 2 ACRE RESIDENTIAL
CORDINATES:	41° 11' 14.999"N (41.18749967 N) 73° 17' 56.979"W (73.29916078 W)

SHEET INDEX

SHEET NO:	SHEET TITLE	REVISION HISTORY	
		NO:	DATE
T01	TITLE SHEET	A	11 / 01 / 07
SC01	COMPOUND PLAN	A	11 / 01 / 07
SC02	TOWER ELEVATION	A	11 / 01 / 07

APPLICANT:
**SPRINT NEXTEL
CORP.**
1 INTERNATIONAL BLVD, SUITE 800
MAHWAH, NJ 07485

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

Drawing Copyright © 2007 Clough Harbour & Associates LLP
CHA
CLOUGH HARBOUR & ASSOCIATES LLP
11 Winona Circle, PO Box 3289 - Albany, NY 12205-0289
Phone: (518) 655-6566 - www.cloughharbour.com
CHA PROJECT NO:
17181 - 3009 - 1601

NO:	SUBMITTAL
11/01/07	ISSUED FOR REVIEW
BY: PAL	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:
CT01YC351-CT03XC385
SITE NAME:
**FAIRFIELD FIRE
DEPARTMENT**
SITE ADDRESS:
**3965 CONGRESS ST.
FAIRFIELD, CT
06824**
FAIRFIELD COUNTY

SHEET TITLE	TITLE SHEET
SHEET NUMBER	T01

APPLICANT:
SPRINT NEXTEL CORP.
 1 INTERNATIONAL BLVD, SUITE 800
 MAHWAH, NJ 07435

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

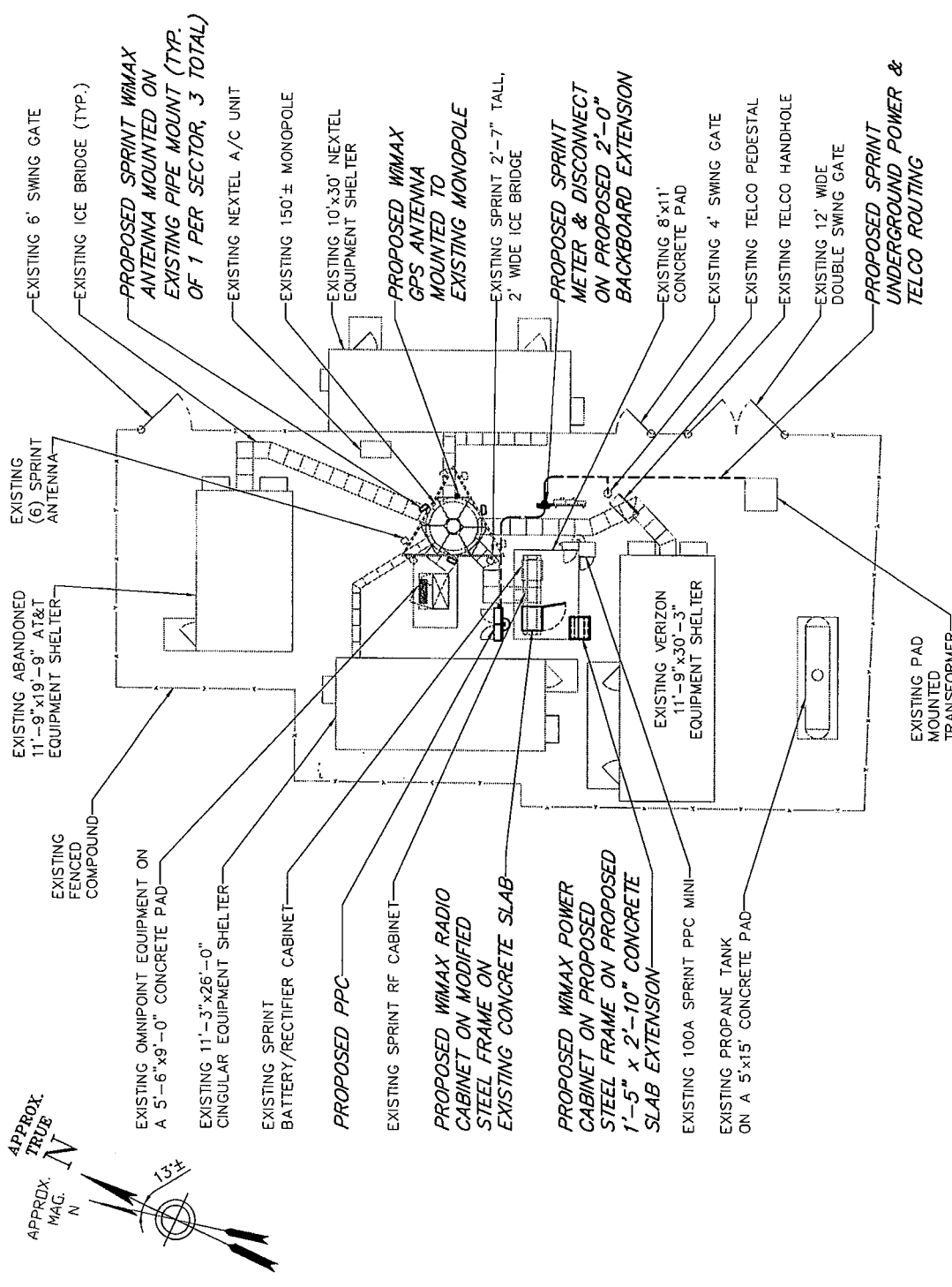
Drawing Copyright © 2007 Clough Harbour & Associates LLP
CHIA
 CLOUGH HARBOUR & ASSOCIATES LLP
 11 Wings Circle, PO Box 5789 - Albany, NY 12216-0589
 Phone: (518) 453-1588 • www.cloughharbour.com
 CHIA PROJECT NO:
17181 - 3009 - 1001

NO.	11/01/07	ISSUED FOR REVIEW
A	BY: PAL	CHK: RUT
		APP'D: PPS

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:
CT01YC351-CT03XC385
 SITE NAME:
FAIRFIELD FIRE DEPARTMENT
 SITE ADDRESS:
**3965 CONGRESS ST.
 FAIRFIELD, CT
 06824**
FAIRFIELD COUNTY

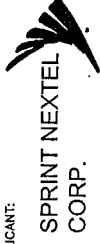
SHEET TITLE
COMPOUND PLAN
 SHEET NUMBER
SC01



ANTENNA AZIMUTHS:
 SECTOR (1) = 30°
 SECTOR (2) = 150°
 SECTOR (3) = 270°

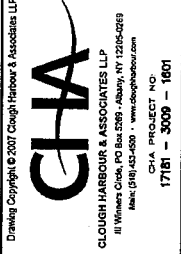


NOT FOR CONSTRUCTION



1 INTERNATIONAL BLVD, SUITE 800
MAHWAH, NJ 07485

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

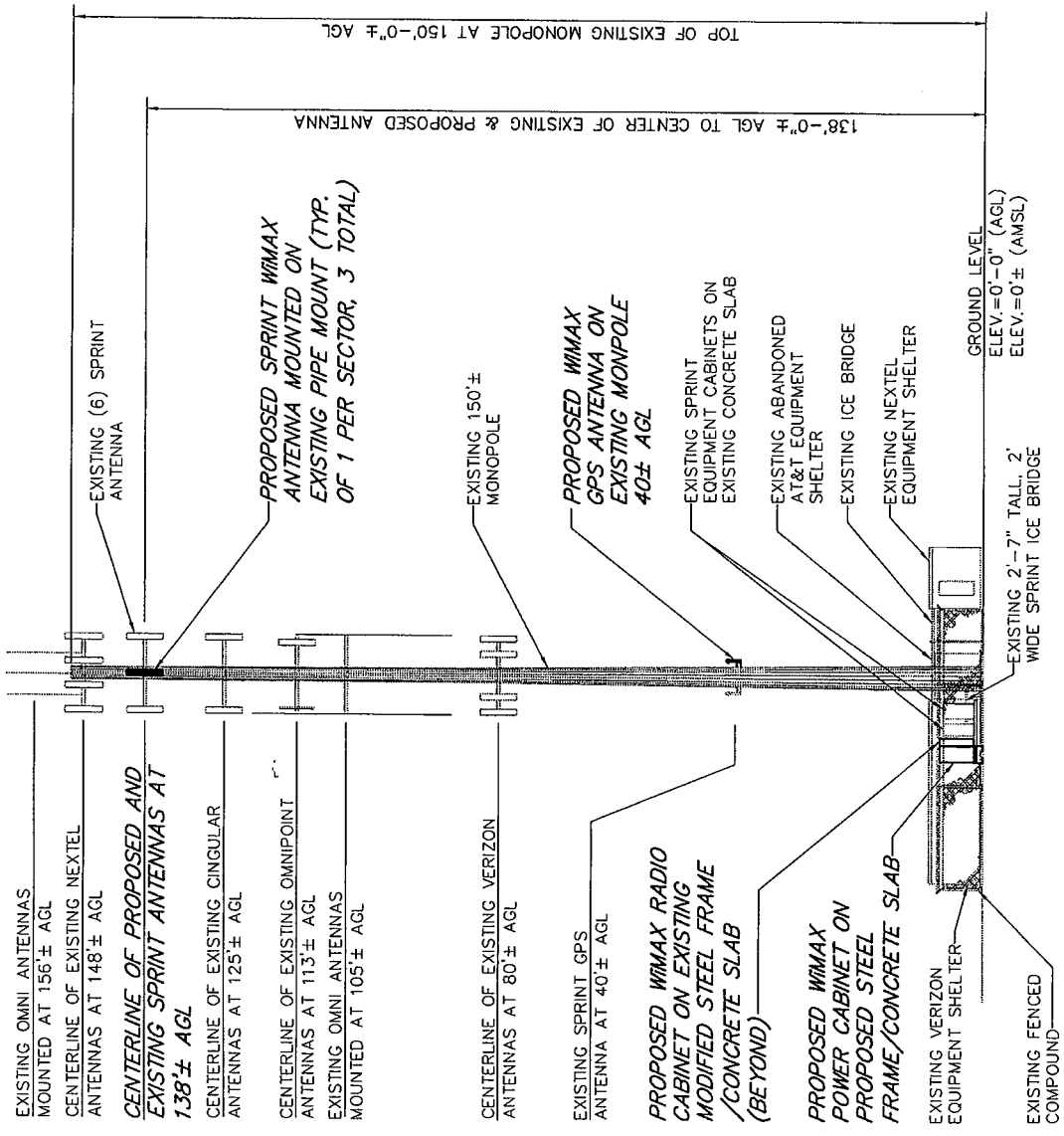


SUBMITTAL			
NO.	DATE	ISSUED FOR REVIEW	BY
A	11/01/07	CHKD: RJT	APP'D: UPS

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: CT01YC351-CT03XC385
SITE NAME: FAIRFIELD FIRE DEPARTMENT
SITE ADDRESS: 3965 CONGRESS ST. FAIRFIELD, CT 06824
FAIRFIELD COUNTY

SHEET TITLE: TOWER ELEVATION
SHEET NUMBER: SC02



ANTENNA AZIMUTHS:

SECTOR (1)	= 30°
SECTOR (2)	= 150°
SECTOR (3)	= 270°

SITE ELEVATION

1	NO SCALE
-	

NOT FOR CONSTRUCTION



CLOUGH HARBOUR & ASSOCIATES LLP

November 13, 2007

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

**RE: Structural Review – CT01YC351-CT03XC385 – Fairfield Fire Department
Sprint Nextel Corp.
Located in Fairfield, CT
CHA File No.: 17181-3009-1203, Rev 1**

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.
- Site visit by CHA on July 19, 2007.
- A previous tower structural analysis by AFL Telecommunications dated January 17, 2003, Project # 1356.052.

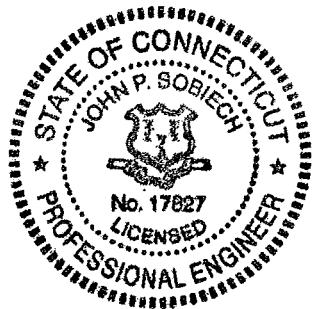
The proposed installation consists of:

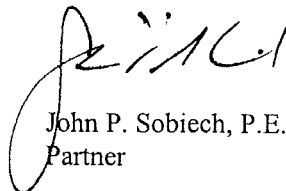
- Adding three (3) KMW AM-X-WM-17-65-00T panel antennas on existing pipe mounts at a centerline elevation of 138'-0" AGL with (6) 1-5/8" coaxial cables mounted on inside of the existing monopole.
- Adding one (1) Micro Pulse 58532A L1 WiMAX GPS antenna on a new pipe mount at a centerline elevation of 40'-0" AGL with (1) 1/2" coaxial cables mounted on the inside of the existing monopole.

Based on the information gathered from the site visit, and reviewing the actual existing loads as compared to the proposed loading, it is our opinion that the existing tower superstructure is capable of supporting the existing and proposed loads. Our review assumes that the existing tower geometry matches the 2003 analysis and a full structural analysis may be needed if the existing conditions vary. 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, P.E.
Partner

/am

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