

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)

January 22, 2008

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

RE: **EM-SPRINT-NEXTEL-044-071214** – Sprint Nextel Corporation notice of intent to modify an existing telecommunications facility located at 60 Commerce Street, East Haven, Connecticut.

Dear Attorney Regan:

At a public meeting held on January 10, 2008, 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 December 14, 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/cm

c: The Honorable April Capone Almon, Mayor, Town of East Haven  
George Mingione, Zoning Enforcement Officer, Town of East Haven  
Perrelli Associates

THOMAS J. REGAN  
Direct Dial: (860) 509-6522  
tregan@brownrudnick.com

CityPlace I  
185 Asylum  
Street  
Hartford  
Connecticut  
06103  
tel 860.509.6500  
fax 860.509.6501

*Via Hand Delivery*

December 14, 2007

RECEIVED  
DEC 14 2007  
CONNECTICUT  
SITING COUNCIL

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

**RE: Sprint Nextel Corporation - Exempt Modification**

Dear Mr. Phelps:

Enclosed for filing is Sprint Nextel Corporation's Notice of Exempt Modification for the addition of WiMAX antennas to an existing tower at 60 Commerce Street in East Haven, Connecticut. I have also enclosed a check in the amount of \$500.00 to cover the filing fee. If you have any questions, please feel free to contact me.

RECEIVED  
DEC 14 2007  
CONNECTICUT  
SITING COUNCIL

Very truly yours,

**BROWN RUDNICK BERLACK ISRAELS LLP**

By: Thomas J. Regan /cm  
Thomas J. Regan

cc: Town of East Haven via 1<sup>st</sup> Class Mail

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CONNECTICUT SITING COUNCIL

ORIGINAL

EM-SPRINT-NEXTEL-044-071214

In re:

Sprint Nextel Corporation's Notice to Make an Exempt Modification to an Existing Facility at 60 Commerce Street, East Haven, Connecticut. : EXEMPT MODIFICATION NO. \_\_\_\_\_ : December 14, 2007

RECEIVED DEC 14 2007

NOTICE OF EXEMPT MODIFICATION

CONNECTICUT SITING COUNCIL

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 East Haven of Sprint's intent to make an exempt modification to an existing monopole (the "Tower") located at 60 Commerce Street in East Haven, Connecticut. Specifically, Sprint plans to remove all of its existing antennas and install 6 new iDEN antennas, 3 CDMA antennas and 3 WiMAX 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.

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.

ORIGINAL



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[A small, illegible stamp or signature is located in the bottom right corner of the page.]

The Tower is a 70-foot monopole located at 60 Commerce Street in East Haven, Connecticut (41.251236 degrees north latitude, -72.8819 degrees west longitude). The Tower is owned by Perrelli Associates. Currently, Sprint is the only carrier on the Tower. Sprint has its antennas located on the Tower with an antenna centerline at 68 feet. The equipment is located within the compound at the base of the Tower. A site plan with the Tower specifications is attached.

Sprint plans to remove all of its existing antennas. Sprint will then install 3 KMW-AM-X-WM-17-65-00T (WiMAX) antennas, 2 EMS RR451400DBL2 dual pole antennas, 2 EMS RR65-12-00DBL dual pole antennas and 2 EMS RR452405DBL2 dual pole antennas. All of the new antennas will have the same centerline as the existing antennas – 68 feet. To confirm the Tower can support these changes, Sprint commissioned URS Corporation to perform a structural analysis of the Tower (attached). According to the structural analysis, dated December 7, 2007, “the structure is in compliance with the proposed loading conditions.”

The WiMAX interior equipment cabinet will fit within Sprint’s existing equipment shelter. Hence, no increase in the size of the compound is necessary. Sprint will also mount a global positioning system (GPS) antenna to the exterior of the equipment shelter. Therefore, excluding brief, minor, construction-related noise during the addition of the antennas and the installation of the equipment cabinet, Sprint’s changes to the Tower will not increase noise levels at the site.

The new 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 measured at the base of the Tower indicates that the new antennas will emit 74.2739% 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 replace the antennas at this 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

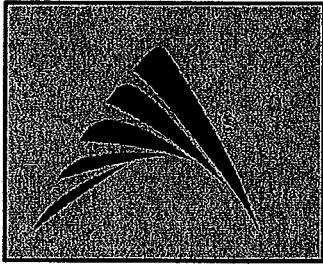
By: 

Thomas J. Regan  
Brown Rudnick Berlack Israels LLP  
185 Asylum Street, CityPlace I  
Hartford, CT 06103-3402  
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Phone - 860.509.6522  
Fax - 860.509.6622

# 40246851 v1 - MERCIECM - 025064/0015



# Sprint Nextel Corp.



## NEW HAVEN TWEED

### CT01YC213/NCT3672

### 60 COMMERCE DRIVE

### EAST HAVEN, CT 06512



**Sprint Nextel Corp.**  
 1 INTERNATIONAL BLVD.,  
 SUITE 800  
 MAHWAH, NJ 07495

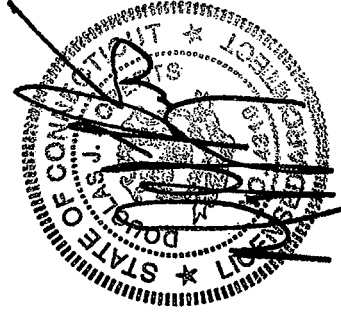
TRANSCEND WIRELESS, LLC  
 479 ROUTE 17 NORTH,  
 2ND FLOOR  
 MAHWAH, NJ 07430

A&E FIRM

**URS CORPORATION A/E/S**  
 500 ENTERPRISE DRIVE, SUITE 3B  
 ROCKY HILL, CONNECTICUT  
 1-(860)-529-8882

|              |          |               |                                  |
|--------------|----------|---------------|----------------------------------|
| NO.          | DATE     | REVISIONS     | BY                               |
| 1            | 12/12/07 | STING COUNCIL | RRH PJS AA                       |
| 2            | 12/06/07 | REVIEW        | RRH PJS AA                       |
| NOT TO SCALE |          |               | DESIGNED BY: PJS   DRAWN BY: RRH |

A&E SEAL

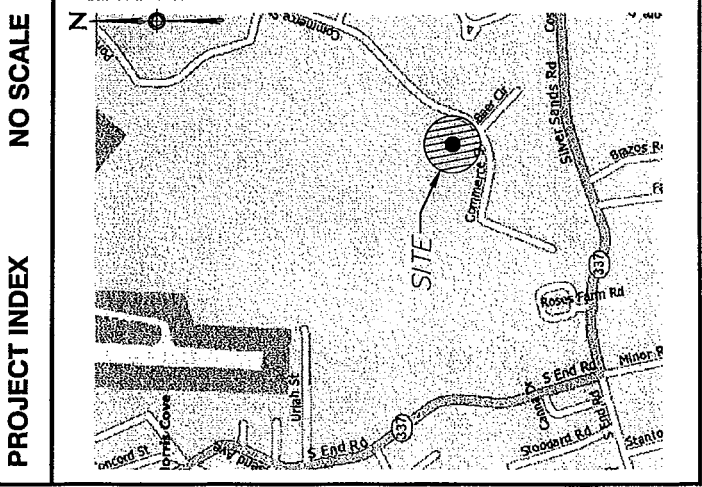


**NEW HAVEN TWEED**  
**CT01YC213/NCT3672**  
**60 COMMERCE DRIVE**  
**EAST HAVEN, CT 06512**

|             |              |          |           |
|-------------|--------------|----------|-----------|
| PROJECT NO. | DRAWING NAME | DATE     | SHEET NO. |
| TW1-031     | T-1          | 12/06/07 | 1 OF 3    |

| PROJECT INDEX   |  |
|-----------------|--|
| SITE NUMBER:    | CT01YC213/NCT3672  |
| SITE NAME:      | NEW HAVEN TWEED  |
| SITE ADDRESS:   | 60 COMMERCE DRIVE<br>EAST HAVEN, CT 06512                                  |
| APPLICANT:      | SPRINT NEXTEL CORP.<br>1 INTERNATIONAL BLVD, SUITE 800<br>MAHWAH, NJ 07495 |
| CONTACT:        | JASON DEIBERT (347) 284-8617   |
| PROPERTY OWNER: | PERRELLI ASSOCIATES  |
| JURISDICTION:   | CONNECTICUT SITING COUNCIL   |
| LATITUDE:       | 41.251236  |
| LONGITUDE:      | -72.8619   |

| SHEET INDEX   |   |
|---|---|
| SHT. NO.  | DESCRIPTION                             |
| T-1   | TITLE SHEET - GENERAL NOTES AND LEGENDS |
| SC-1  | COMPOUND PLAN                           |
| SC-2  | TOWER ELEVATION                         |
| DRIVING DIRECTIONS  |   |
| FROM 100 CORPORATE PLACE, ROCKY HILL, CT:<br>START OUT GOING SOUTH ON CORPORATE PL TOWARD WEST ST.<br>TURN LEFT ONTO WEST ST.<br>MERGE ONTO I-91 S TOWARD NEW HAVEN.<br>MERGE ONTO I-95 N / GOVERNOR JOHN DAVIS LODGE TURNPIKE VIA THE EXIT ON THE LEFT TOWARD NEW LONDON.<br>TAKE THE FRONTAGE RD EXIT- EXIT 51- TOWARD EAST HAVEN / US-1.<br>STAY STRAIGHT TO GO ONTO FRONTAGE RD / SALTONSTALL PKWY.<br>CONTINUE TO FOLLOW SALTONSTALL PKWY.<br>TURN RIGHT ONTO HEMINGWAY AVE / CT-142.<br>STAY STRAIGHT TO GO ONTO COE AVE.<br>TURN RIGHT ONTO SILVER SANDS RD / CT-337.<br>TURN RIGHT ONTO COMMERCE ST.<br>END AT 60 COMMERCE ST EAST HAVEN, CT 06512-4145, US |   |



PROJECT INDEX NO SCALE

**Sprint Nextel Corp.**  
 1 INTERNATIONAL BLVD.,  
 SUITE 800  
 MAHWAH, NJ 07495

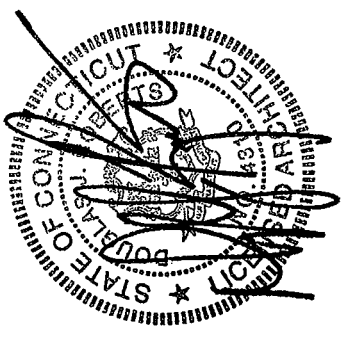
TRANSCEND WIRELESS, LLC  
 479 ROUTE 17 NORTH,  
 2ND FLOOR  
 MAHWAH, NJ 07430

**URS CORPORATION AES**  
 500 ENTERPRISE DRIVE, SUITE 3B  
 ROCKY HILL, CONNECTICUT  
 1-(860)-529-8882

A&E FIRM

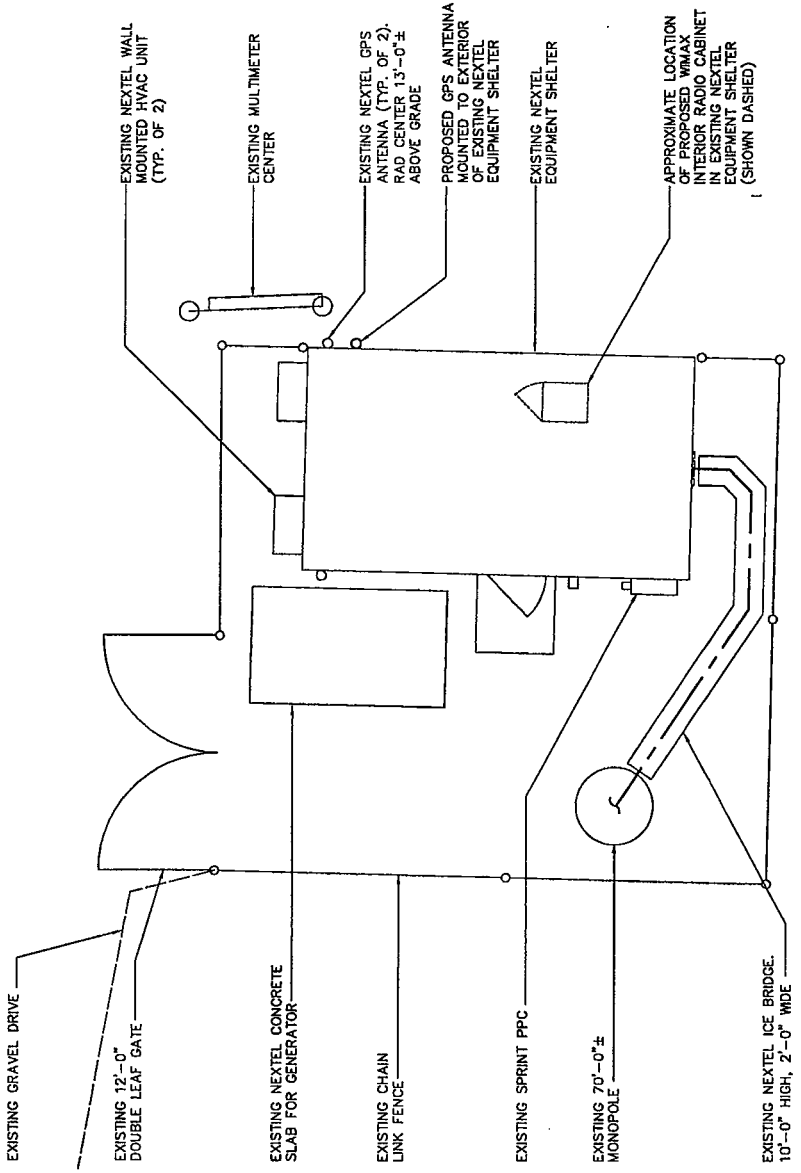
| NO. | DATE     | REVISIONS      | BY  | CHK/APPR'D |
|-----|----------|----------------|-----|------------|
| A   | 12/12/07 | SITING COUNCIL | RRH | PJS/AA     |
| A   | 12/09/07 | REVIEW         | RRH | PJS/AA     |

NOT TO SCALE | DESIGNED BY: PJS | DRAWN BY: RRH | A&E SEAL



**NEW HAVEN TWEED**  
**CT01YC213/NCT3672**  
**60 COMMERCE DRIVE**  
**EAST HAVEN, CT 06512**

|             |              |          |               |
|-------------|--------------|----------|---------------|
| PROJECT NO. | DRAWING NAME | DATE     | SHEET NO./REV |
| TW1-031     | SC-1         | 12/06/07 | 2 OF 3        |



**1 COMPOUND PLAN**  
 SCALE: N.T.S.



**Sprint Nextel Corp.**  
 1 INTERNATIONAL BLVD.,  
 SUITE 800  
 MAHWAH, NJ 07495

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

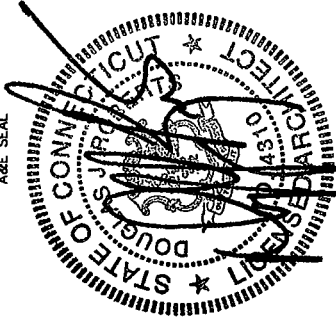
A&E FIRM

**URS CORPORATION AES**

500 ENTERPRISE DRIVE, SUITE 3B  
 ROCKY HILL, CONNECTICUT  
 1-(866)-529-8882

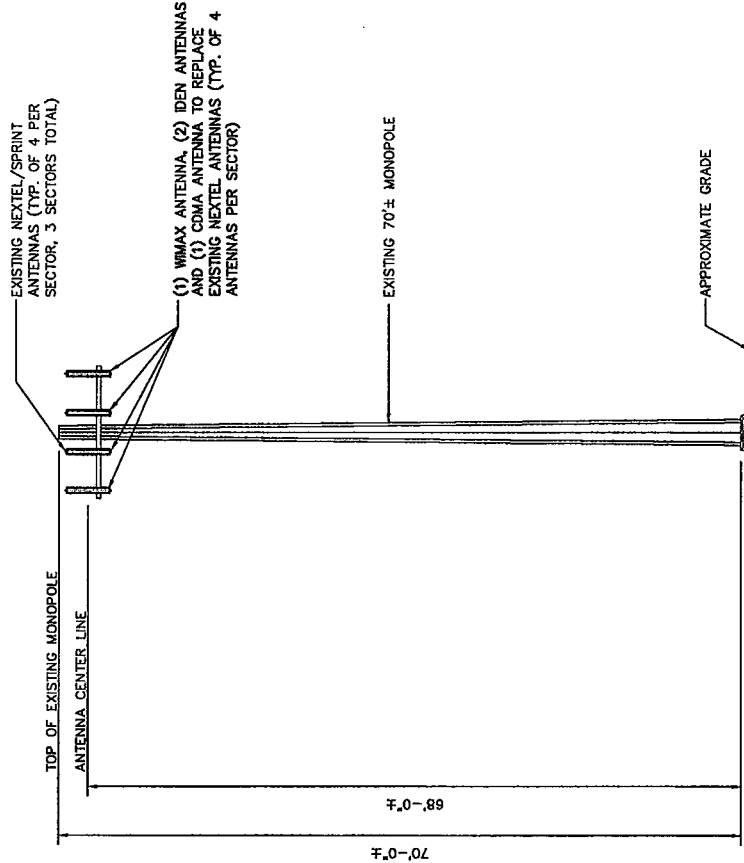
| NO. | DATE     | REVISIONS      | DESIGNED BY: PJS | DRAWN BY: RRR |
|-----|----------|----------------|------------------|---------------|
| 1   | 12/12/07 | SITING COUNCIL | RRH PJS /AA      |               |
| 2   | 12/08/07 | REVIEW         | RRH PJS /AA      |               |
| 3   |          |                | BT [CHK/APP'D]   |               |

A&E SEAL



**NEW HAVEN TWEED**  
**CT01YC213/NCT3672**  
**60 COMMERCE DRIVE**  
**EAST HAVEN, CT 06512**

|             |          |              |      |      |          |               |            |
|-------------|----------|--------------|------|------|----------|---------------|------------|
| PROJECT NO. | TW1-031  | DRAWING NAME | SC-2 | DATE | 12/06/07 | SHEET NO./REV | 3 OF 3 / A |
|             | 36917290 |              |      |      |          |               |            |



**1 TOWER ELEVATION**  
 SCALE: 1" = 20'-0"



December 7, 2007

Mr. Jason Deibert  
Transcend Wireless  
479 Route 17 North, 2<sup>nd</sup> Floor  
Mahwah, NJ 07430

**Reference: Proposed Antenna Upgrade  
Sprint Nextel  
Site Number: CT01YC213 NCT3672  
60 Commerce Drive  
East Haven, Connecticut  
TW1 031/36917290.00000**

Dear Mr. Deibert:

URS Corporation (URS) conducted a structural review of the existing Sprint Nextel 70' monopole located at 60 Commerce Drive in East Haven, Connecticut. The purpose of our review was to evaluate the effect of the proposed Sprint Nextel antenna upgrades on the monopole structure. The monopole structure design documents were prepared by Valmont Structures, Valmont Order#: 121647, Project number 22665R2 signed and sealed October 11, 2005 and foundation drawing number 195876 signed and sealed October 11, 2005. The tower was designed to support three (3) telecommunication carriers between elevation 68' and 50' (antenna centerline). The original design considered twelve (12) 5 sf panel antennas on low profile platforms for each of the three carriers. The tower currently supports Sprint Nextel antennas mounted on a low profile platform at the 68' elevation. The proposed Sprint Nextel antenna upgrades are as follows:

| Antenna and Mount Modification   | Carrier                       | Antenna Center Elevation |
|--|-------------------------------|--------------------------|
| Remove 9 antennas (3 per sector). 3 panel antennas to remain (1 per sector)                                  | Sprint Nextel                 | 68' A.G.L.               |
| (15) 1 5/8" coaxial cables to remain (interior to monopole)  | Sprint Nextel                 |                          |
| <b>Add (3) WiMAX antennas (one antenna per sector), KMW Model AM-X-WM-17-65-00T on existing pipe mounts.</b> | <b>Sprint Nextel proposed</b> | <b>68' A.G.L.</b>        |
| <b>Add (2) Dual Pole antennas (Alpha Sector), EMS Model RR451400DBL2 on existing pipe mounts.</b>            | <b>Sprint Nextel proposed</b> | <b>68' A.G.L.</b>        |
| <b>Add (2) Dual Pole antennas (Beta Sector), EMS Model RR65-12-00DBL on existing pipe mounts.</b>            | <b>Sprint Nextel proposed</b> | <b>68' A.G.L.</b>        |
| <b>Add (2) Dual Pole antennas (Gamma Sector), EMS Model RR451405DBL2 on existing pipe mounts.</b>            | <b>Sprint Nextel proposed</b> | <b>68' A.G.L.</b>        |

URS Corporation  
500 Enterprise Drive, Suite 3B  
Rocky Hill, CT 06067  
Tel: 860.529.8882  
Fax: 860.529.3991


|   |  |  |
|---|--|--|
| <b>Add (6) 1 5/8" coaxial cables (interior to the monopole)</b> |  |  |
|---|--|--|

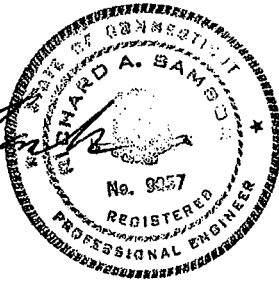
The results of this review indicate that the structure is in compliance with the proposed loading conditions. The monopole and its foundation are considered to be in accordance with the 2005 Connecticut State Building Code and the TIA/EIA-222-F standard for a wind velocity of 90 mph (fastest mile) and 78 mph (fastest mile) concurrent with 0.5" ice.

If you should have any questions, please call.

Sincerely,

**URS Corporation AES**

  
Richard A. Sambor, P.E.  
Manager Facilities Design



cc: Alitz Abadjian - URS  
Ignacio C. Artaiz, AIA - URS  
CF/Book

**CT01YC213 (60 Commerce Street, East Haven, CT) - Siting Council Power Density Calculations**

| Sprint Nextel Directional Antennas ESMR - 2657 MHz 68' |                  |                                 |                    |                     |                                       |   |  |  |                 |
|--|------------------|---------------------------------|--------------------|---------------------|---------------------------------------|---|--|--|-----------------|
| 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                 | 68                                    | 0.1310442                                 |  |  | 13.1044%        |
| Sprint/Nextel iDEN                                     | 851              | 0.5673                          | 19                 | 100                 | 68                                    | 0.1476773                                 |  |  | 26.0301%        |
| Sprint/Nextel CDMA                                     | 1962.5           | 1.0000                          | 11                 | 411                 | 68                                    | 0.3513943                                 |  |  | 35.1394%        |
| <b>Total % of CT Standard</b>                          |                  |                                 |                    |                     |                                       |   |  |  | <b>74.2739%</b> |