



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

www.ct.gov/csc

September 18, 2012

Rick Woods
SBA Communications Corporation
One Research Dr. Suite 200C
Westborough, MA 01581

RE: **EM-SPRINT-060-120817** – Sprint Spectrum notice of intent to modify an existing telecommunications facility located at 331 Killingworth Road, Guilford, Connecticut.

Dear Mr. Woods:

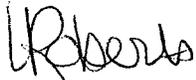
The Connecticut Siting Council (Council) hereby acknowledges your notice to modify this existing telecommunications facility, pursuant to Section 16-50j-73 of the Regulations of Connecticut State Agencies with the following conditions:

- Tower modifications identified in the FDH Modification Drawings be implemented in accordance with the recommendations made in the Structural Analysis Report prepared by FDH Engineering dated May 8, 2012, and stamped by Christopher Murphy;
- Prior to antenna installation, a signed letter from a Professional Engineer duly licensed in the State of Connecticut shall be submitted to the Council to certify that the recommended modifications have been completed and the tower and foundation will not exceed 100 percent of the post-construction structural rating;
- Any deviation from the proposed modification as specified in this notice and supporting materials with Council shall render this acknowledgement invalid;
- Any material changes to this modification as proposed shall require the filing of a new notice with the Council;
- Not less than 45 days after completion of construction, the Council shall be notified in writing that construction has been completed;
- The validity of this action shall expire one year from the date of this letter; and
- The applicant may file a request for an extension of time beyond the one year deadline provided that such request is submitted to the Council not less than 60 days prior to the expiration;

The proposed modifications including the placement of all necessary equipment and shelters within the tower compound are to be implemented as specified here and in your notice dated August 16, 2012. 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. Thank you for your attention and cooperation.

Very truly yours,



Linda Roberts
Executive Director

LR/CDM/jbw

c: The Honorable Joseph S. Mazza, First Selectman, Town of Guilford
Regina Reid, Zoning Enforcement Officer, Town of Guilford
Sean Gormley, SBA



August 23, 2012

David Martin and
Members of the Siting Council
Connecticut Siting Council
Ten Franklin Square
New Britain, CT 06051

RE: Notice of Exempt Modification
331 Killingworth Road
Guilford, CT 06437
Site # CT03XC068
N 41° 21' 11.4"
W 72° 41' 17.7"

RECEIVED
AUG 24 2012
CONNECTICUT
SITING COUNCIL

Dear Mr. Martin and Members of the Siting Council:

Pursuant to the exempt modification previously submitted for the above mentioned site I would like to add the following information:

1. The proposed changes will not increase the noise level at the existing facility by six decibels or more.

Thank you,

Rick Woods
SBA Communications Corporation
One Research Dr. Suite 200C
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508-366-5505 x 319 + T
508-366-5507 + F
508-614-0389 + C
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EM-SPRINT-060-120817

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Ten Franklin Square
New Britain, CT 06051

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ORIGINAL
RECEIVED
AUG 17 2012
CONNECTICUT
SITING COUNCIL

Dear Mr. Martin and Members of the Siting Council:

On behalf of Sprint Spectrum, SBA Communications is submitting an exempt modification application to the Connecticut Siting council for modification of existing equipment at a tower facility located at 331 Killingworth Road Guilford, CT.

The 331 Killingworth Road facility consists of a 152' Self-Support Tower owned and operated by SBA Communications. In order to accommodate technological changes and enhance system performance in the State of Connecticut, Sprint Spectrum plans to modify the equipment configurations at many of its existing cell sites. Please accept this letter and attachments as notification, pursuant to R.C.S.A. Section 16-50j-73, of construction which constitutes an exempt modification 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 chief elected official of the municipality in which the affected cell site is located.

As part of Sprint's Network Vision modification project, Sprint desires to upgrade their equipment to meet the new standards of 4G technology. The new antennas and associated equipment will allow customers to download files and browse the internet at a high rate of speed while also allowing their phones to be compatible with the latest 4G technology.

Attached is a summary of the planned modifications, including power density calculations reflecting the change in Sprint's operations at the site. Also included is documentation of the structural sufficiency of the tower to accommodate the revised antenna and equipment configuration along with the required fee of \$625.

The changes to the facility do not constitute modifications as defined in Connecticut General Statutes ("C.G.S.") Section 16-50i(d) because the general physical characteristics of the facility will not be

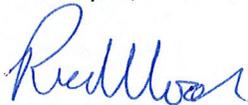
significantly changed or altered. Rather, the planned changes to the facility fall squarely within those activities explicitly provided for in R.C.S.A. Section 16-50j-72(b)(2).

1. The overall height of the structure will be unaffected.
2. The proposed changes will not extend the site boundaries. There will be no effect on the site compound other than the new equipment cabinets.
3. The changes in radio frequency power density will not increase the calculated "worst case" power 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.

For the foregoing reasons, SBA Communications on behalf of Sprint Spectrum, respectfully submits that he proposed changes at the referenced site constitute exempt modifications under R.C.S.A. Section 16-50j-72(b)(2).

Please feel free to call me at (508) 614-0389 with any questions you may have concerning this matter.

Thank you,



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Sprint Spectrum Equipment Modification

331 Killingworth Road Guilford, CT
Site number CT03XC068

Tower Owner: SBA Communications Corporation

Equipment Configuration: Self Support Tower

Current and/or approved: Nine (9) Decibel Antennas @ 138'
Nine (9) lines of 1-5/8" coax
Three (3) equipment cabinets

Planned Modifications: Remove all existing antenna and coax
Install Three (3) Network Vision antennas & Six (6) RRHs @ 138'
Install Three (3) Hybriflex fiber cables
Install Three (3) Filters
Install Four (4) RETs
Install One (1) Fiber Distribution Box
Replace Two (2) existing equipment cabinets with Two (2) new cabinets

Structural Information:

The attached structural analysis demonstrates that the tower and foundation will have adequate structural capacity to accommodate the proposed modifications.

Power Density:

The anticipated Maximum Composite contributions from the Sprint facility are 12.745% of the allowable FCC established general public limit. The anticipated composite MPE value for this site assuming all carriers present is 46.165% of the allowable FCC established general public limit sampled at the ground level.

Site Composite MPE %	
Carrier	MPE %
Sprint	12.745%
AT&T	4.340%
Nextel	5.850%
Verizon Wireless	23.230%
Total Site MPE %	46.165%



August 16, 2012

Honorable Joseph Mazza
1st Selectman
Town of Guilford
31 Park Street
Guilford, CT 06437

RE: Telecommunications Facility-331 Killingworth Road Guilford, CT 06437

Dear Mr. Mazza

In order to accommodate technological changes and enhance system performance in the State of Connecticut, Sprint Spectrum will be changing its equipment configuration at certain cell sites.

As required by Regulations of Connecticut State Agencies (R.C.S.A.) Section 16-50j-73, the Connecticut Siting Council has been notified of the changes and will review Sprint's proposal. Please accept this letter as notification under Section 16-50j-73 of construction which constitutes an exempt modification pursuant to R.C.S.A. Section 16-50j-72(b)(2).

The accompanying letter to the Siting Council fully describes Sprint's proposal for the referenced cell site. However, if you have any questions or require any further information on our plans or the Siting Council's procedures, please call me at (508) 614-0389.

Thank you,

A handwritten signature in blue ink, appearing to read "Rick Woods", is positioned below the "Thank you," text.

Rick Woods
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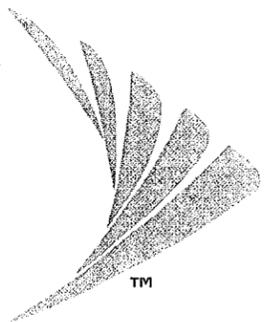
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STRUCTURAL NOTE:
 STRUCTURAL DESIGNS AND DETAILS FOR ANTENNA MOUNTS AND RRH MOUNTS COMPLETED BY HUDSON DESIGN GROUP LLC ON BEHALF OF ALCATEL-LUCENT ARE INCLUSIVE OF THE ENTIRE ANTENNA FRAME/PLATFORM/ANTENNA/RRH MOUNTS SECURED TO THE TOWER STRUCTURE.

STRUCTURAL NOTE:
 G.C. TO REFER TO SPECIAL INSTALLATION REQUIREMENTS AND/OR MODIFICATIONS RECOMMENDED IN STRUCTURAL ANALYSIS REPORT PREPARED BY FDH ENGINEERING, INC. DATED: MAY 8, 2012

SBA SITE #: CT13065-A
SBA SITE NAME: GUILFORD

Sprint VISION

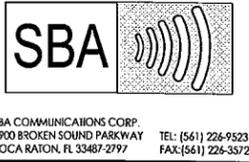


SITE NUMBER:
CT03XC068

SITE NAME:
NORTH GUILFORD

SITE ADDRESS:
**331 KILLINGWORTH ROAD
 GUILFORD, CT 06437**

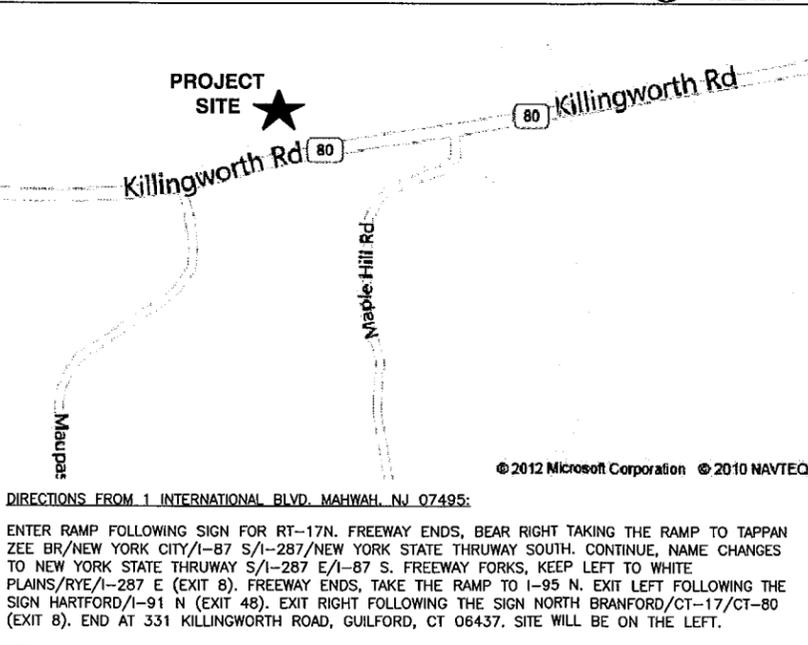
NOTE:
 OWNER AND TENANT MAY, FROM TIME TO TIME AT TENANT'S OPTION, REPLACE THIS EXHIBIT WITH AN EXHIBIT SETTING FORTH THE LEGAL DESCRIPTION OF THE SITE, OR WITH ENGINEERED OR AS-BUILT DRAWING DEPICTING THE SITE OR ILLUSTRATING STRUCTURAL MODIFICATIONS OR CONSTRUCTION PLANS OF THE SITE. ANY VISUAL OR TEXTUAL REPRESENTATION OF THE EQUIPMENT LOCATED WITHIN THE SITE CONTAINED IN THESE OTHER DOCUMENTS IS ILLUSTRATIVE ONLY, AND DOES NOT LIMIT THE RIGHTS OF SPRINT AS PROVIDED FOR IN THE AGREEMENT. THE LOCATIONS OF ANY ACCESS AND UTILITY EASEMENTS ARE ILLUSTRATIVE ONLY. ACTUAL LOCATIONS MAY BE DETERMINED BY TENANT AND/OR THE SERVICING UTILITY COMPANY IN COMPLIANCE WITH LOCAL LAWS AND REGULATIONS.



SITE INFORMATION

SITE NUMBER:	CT03XC068	LOCAL POWER COMPANY:	CONNECTICUT LIGHT & POWER
SITE NAME:	NORTH GUILFORD	LOCAL TELCO COMPANY:	VERIZON
SITE ADDRESS:	331 KILLINGWORTH ROAD GUILFORD, CT 06437	APPLICANT:	SPRINT 1 INTERNATIONAL BLVD, SUITE 800 MAHWAH, NJ 07495
COUNTY:	NEW HAVEN	APPLICANT REPRESENTATIVE:	ALCATEL-LUCENT TODD AMANN 600 MOUNTAIN AVE. MURRAY HILL, NJ 07974 (914)715-9363
ZONING:	R8 - RESIDENTIAL	SITE ACQUISITION CONSULTANT:	SBA COMMUNICATIONS CORP. ONE RESEARCH DRIVE SUITE 200C WESTBOROUGH, MA 01581
PARCEL ID:	10701401	A&E CONSULTANT:	HUDSON DESIGN GROUP LLC 1600 OSGOOD STREET BLDG 20 NORTH, SUITE 2-101 NORTH ANDOVER, MA 01845 TEL: (978) 557-5553 FAX: (978) 336-5586
COORDINATES(*):	N 41° 21' 11.4" W 72° 41' 17.7"	(**) NOTE: NETWORK VISION ANTENNA RADIATION CENTERLINE AGL (FEET) BASED ON SBA EQUIPMENT DATABASE AND SBA TOWER STRUCTURAL ANALYSIS AND WILL SUPERSEDE ANY CONFLICTING INFORMATION DERIVED FROM ALU/SPRINT DATABASE.	
GROUND ELEV.(*):	240.0± (AMSL)		
STRUCTURE TYPE:	SELF SUPPORT		
STRUCTURE HEIGHT:	152' (AGL)		
ANTENNA RAD CENTER(**):	138.5' (AGL)		
PROPERTY OWNER:	DAVID ACAMPORA 331 KILLINGWORTH ROAD GUILFORD, CT 06437		
STRUCTURE OWNER:	SBA INFRASTRUCTURE, LLC 5900 BROKEN SOUND PKWY BOCA RATON, FL 33487		

VICINITY MAP



SHEET INDEX

SHEET NO.	DESCRIPTION
T-1	TITLE SHEET
GN-1	GENERAL NOTES
A-1	COMPOUND PLAN & ELEVATION
A-2	ANTENNA SCENARIO
A-3	DETAILS
A-4	RF DATA SHEET
A-5	CABINET & ANTENNA WIRING DIAGRAM
S-1	STRUCTURAL DETAILS
E-1	TYPICAL POWER & GROUNDING ONE LINE DIAGRAM

APPROVALS

THE FOLLOWING PARTIES HEREBY APPROVE AND ACCEPT THESE DOCUMENTS AND AUTHORIZE THE CONTRACTOR TO PROCEED WITH THE CONSTRUCTION DESCRIBED HEREIN. ALL DOCUMENTS ARE SUBJECT TO REVIEW BY THE LOCAL BUILDING DEPARTMENT AND MAY IMPOSE CHANGES OR MODIFICATIONS.

CONSTRUCTION: _____ DATE: _____
 LEASING/SITE ACQUISITION: _____ DATE: _____
 RF ENGINEER: _____ DATE: _____
 LANDLORD/PROPERTY OWNER: _____ DATE: _____

APPROVED
 By Bryan Bakis, P.E. for SBA Communications Corp. at 2:29 pm, Jul 18, 2012

GENERAL NOTES

- THIS IS AN UNMANNED TELECOMMUNICATION FACILITY AND NOT FOR HUMAN HABITATION:
 - HANDICAPPED ACCESS NOT REQUIRED
 - POTABLE WATER OR SANITARY SERVICE IS NOT REQUIRED
 - NO OUTDOOR STORAGE OR ANY SOLID WASTE RECEPTACLES REQUIRED
- CONTRACTOR SHALL VERIFY ALL PLANS, EXISTING DIMENSIONS, AND CONDITIONS ON JOB SITE. CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT/ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK. FAILURE TO NOTIFY THE ARCHITECT/ENGINEER PLACE THE RESPONSIBILITY ON THE CONTRACTOR TO CORRECT THE DISCREPANCIES AT THE CONTRACTOR'S EXPENSE.
- DEVELOPMENT AND USE OF THE SITE WILL CONFORM TO ALL APPLICABLE CODES AND ORDINANCES.
 BUILDING CODE: 2003 IBC WITH 2005 CT SUPPLEMENT & 2009 CT AMENDMENT
 ELECTRICAL CODE: 2005 NATIONAL ELECTRICAL CODE
 STRUCTURAL CODE: TIA/EIA-222-F STRUCTURAL STANDARDS FOR ANTENNA SUPPORTING STRUCTURES AND ANTENNAS

SCOPE OF WORK

- INSTALL RETRO FIT KIT WITHIN EXISTING MODCELL CABINET & INSTALL FIBER DISTRIBUTION BOX WITHIN EXISTING LEASE AREA. REPLACE EXISTING POWER CABINET WITH (2) BBU CABINETS.
 - REMOVE (6) EXISTING CDMA ANTENNAS AND REPLACE WITH (3) NETWORK VISION ANTENNAS & (6) RRH'S.
 - REMOVE EXISTING CDMA COAX CABLES & INSTALL (3) HYBRIFLEX CABLES FROM EQUIPMENT CABINET TO ANTENNA.
 - REMOVE EXISTING GPS ANTENNA AND REPLACE WITH NEW GPS ANTENNA.
- CALL BEFORE YOU DIG
 1-800-922-4455 OR DIAL 811



CHECKED BY:	KB		
APPROVED BY:	DPH		
SUBMITTALS			
REV.	DATE	DESCRIPTION	BY
2	06/08/12	FOR CONSTRUCTION	NB
1	03/23/12	ISSUED FOR REVIEW	MJS

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CT03XC068
 SITE NAME:
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 SITE ADDRESS:
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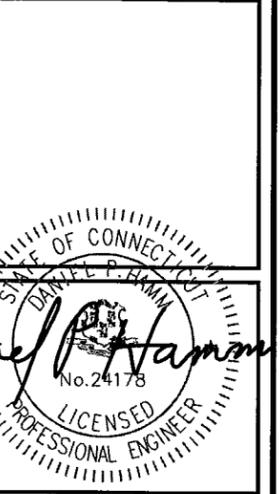
SHEET TITLE
TITLE SHEET

SHEET NUMBER
T-1

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NOTES:
 1) VERIFY EXACT ANTENNA MODEL & AZIMUTHS WITH RF ENGINEER PRIOR TO INSTALLATION.
 2) REMOVE EXISTING GPS ANTENNA AND REPLACE WITH NEW GPS ANTENNA.
 (** NOTE: NETWORK VISION ANTENNA RADIATION CENTERLINE AGL (FEET) BASED ON SBA EQUIPMENT DATABASE AND SBA TOWER STRUCTURAL ANALYSIS AND WILL SUPERSEDE ANY CONFLICTING INFORMATION DERIVED FROM ALU/SPRINT DATABASE.

ANTENNA CONFIGURATION NOTES:
 PER THE MLA BETWEEN SPRINT AND SBA, ALL EXISTING NEXTEL EQUIPMENT MUST BE REMOVED WITHIN 6 MONTHS UNLESS OTHERWISE NOTED.



CHECKED BY: KB

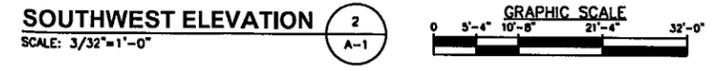
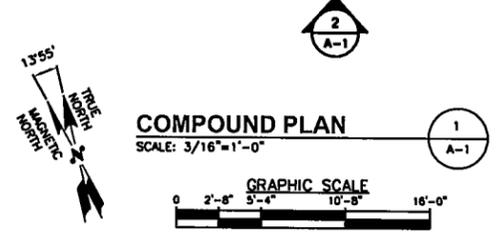
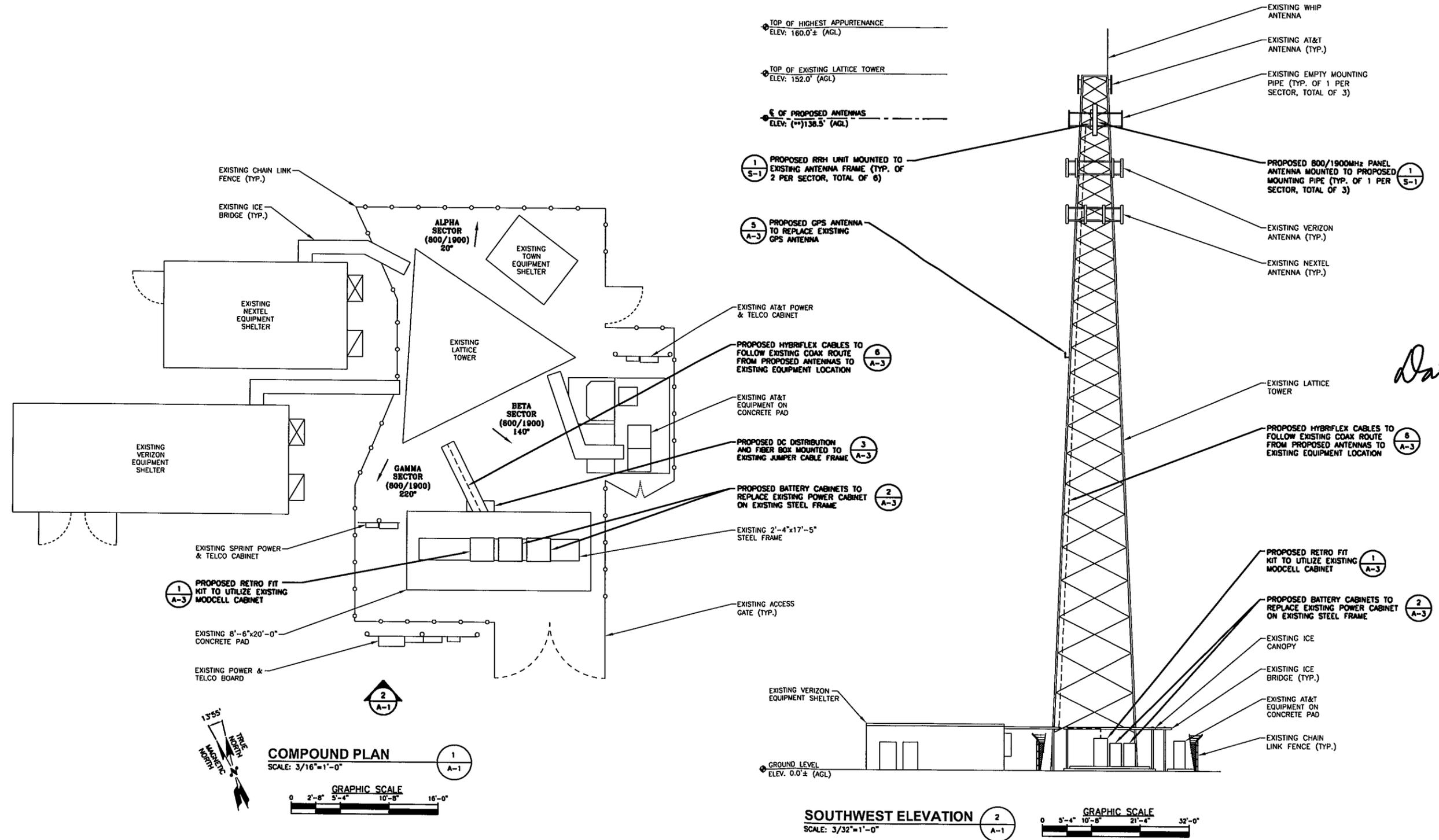
APPROVED BY: DPH

SUBMITTALS			
REV.	DATE	DESCRIPTION	BY
2	06/08/12	FOR CONSTRUCTION	MB
1	03/23/12	ISSUED FOR REVIEW	MJS

SITE NUMBER:
 CT03XC068
 SITE NAME:
 NORTH GUILFORD
 SITE ADDRESS:
 331 KILLINGWORTH ROAD
 GUILFORD, CT 06437

SHEET TITLE
 COMPOUND PLAN & ELEVATION

SHEET NUMBER
 A-1





FDH Engineering, Inc., 6521 Meridien Drive Raleigh, NC 27616, Ph. 919.755.1012

**Structural Analysis for
SBA Network Services, Inc.**

152' Self-Support Tower

**SBA Site Name: Guilford
SBA Site ID: CT13065-A
Sprint Site ID: CT03XC068
Sprint Site Name: TCI - Guilford**

FDH Project Number 12-04638E S1

Analysis Results

Tower Components	97.1%	Sufficient
Foundation	72.9%	Sufficient

Prepared By:

W. G. Price II

William G. Price II, EI
Project Engineer I

Reviewed By:

Christopher M. Murphy

Christopher M Murphy, PE
President
CT PE License No. 25842

FDH Engineering, Inc.
6521 Meridien Drive
Raleigh, NC 27616
(919) 755-1012
info@fdh-inc.com



May 8, 2012

Prepared pursuant to TIA/EIA-222-F Structural Standards for Steel Antenna Towers and Antenna Supporting Structures and 2005 Connecticut Building Code

TABLE OF CONTENTS

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EXECUTIVE SUMMARY

At the request of SBA Network Services, Inc., FDH Engineering, Inc. performed a structural analysis of the existing self-supported tower located in Guilford, CT to determine whether the tower is structurally adequate to support both the existing and proposed loads pursuant to the *Structural Standards for Steel Antenna Towers and Antenna Supporting Structures, TIA/EIA-222-F* and *2005 Connecticut Building Code (CBC)*. Information pertaining to the existing/proposed antenna loading, current tower geometry, the member sizes, and foundation dimensions was obtained from:

- Rohn (File No. 21046FH) original design drawings dated August 8, 1985
- FDH, Inc. (Job No. 09-09006T T1) TIA Inspection Report dated January 14, 2010
- All-Points Technology Corporation, P.C. (Job No. CT200101) Tower Reinforcement Drawings dated April 28, 2005
- FDH Engineering, Inc. (Project No. 09-03151E N1) Dispersive Wave Propagation Testing of an Existing Tower Foundation dated June 10, 2009
- FDH Engineering, Inc. (Project No. 09-13151E G1) Geotechnical Evaluation of Subsurface Conditions dated May 5, 2009
- FDH Engineering, Inc. (Project No. 09-13151E S2) Modification Drawings for a 152' Self Support Tower dated July 31, 2009
- FDH Engineering, Inc. (Project No. 09-03151E S2) Post Construction Inspection Report Dated April 10, 2010
- FDH Engineering, Inc. (Project No. 11-10199E S2) Modification Drawings for a 152' Self Support Tower dated April 19, 2012
- SBA Network Services, Inc.

The *basic design wind speed* per the *TIA/EIA-222-F* standards and *2005 CBC* is 85 mph without ice and 38 mph with 3/4" radial ice. Ice is considered to increase in thickness with height.

Conclusions

With the existing and proposed antennas from Sprint in place at 138.5 ft, the tower meets the requirements of the *TIA/EIA-222-F* standards and *2005 CBC* provided the **Recommendations** listed below are satisfied. Furthermore, given the existing foundation dimensions (see FDH Engineering, Inc. Project No. 09-03151E N1) and soil parameters (see FDH Engineering, Inc. Project No. 09-03151E G1), the foundations should have the necessary capacity to support the existing and proposed loading. For a more detailed description of the analysis of the tower, see the **Results** section of this report.

Our structural analysis has been performed assuming all information provided to FDH Engineering, Inc. is accurate (i.e., the steel data, tower layout, existing antenna loading, and proposed antenna loading) and that the tower has been properly erected and maintained per the original design drawings.

Recommendations

To ensure the requirements of the *TIA/EIA-222-F* standards and *2005 CBC* are met with the existing and proposed loading in place, we have the following recommendations:

1. Coax lines must be installed as shown in **Figure 1**.
2. RRU/RRH Stipulation: The equipment may be installed in any arrangement as determined by the client.
3. The tower modifications outlined in the FDH Engineering, Inc. (Project No. 11-10199E S2) Modification Drawings for a 152' Self Support Tower must be installed correctly per the referenced drawings for this analysis to be valid.

APPURTENANCE LISTING

The proposed and existing antennas with their corresponding cables/coax lines are shown in **Table 1**. *If the actual layout determined in the field deviates from the layout, FDH Engineering, Inc. should be contacted to perform a revised analysis.*

Table 1 - Appurtenance Loading

Existing Loading:

Antenna Elevation (ft)	Description	Coax and Lines	Carrier	Mount Elevation (ft)	Mount Type				
155.5	(1) Phillips Dodge 201-7 Omni	(1) 7/8"	TCI Cablevision	152	Direct				
154.3	(1) Decibel DB589 Omni	(1) 7/8"	American Messaging	150	(1) Pipe Mount				
148.5	(6) Algon 7770.00	(12) 1-5/8"	AT&T	148.5	(3) T-Frames				
145.5	(6) Powerwave LGP21401 TMAs (6) Powerwave LGP21901 Diplexers								
138.5	(9) Decibel DB980H90E-M	(9) 1-5/8"	Sprint	138	(3) 13' T-Frames				
131	(1) Decibel DB26 GPS	(12) 1-5/8" (1) 1/2"	Verizon	128	(3) 12.5' T-Frames				
129	(4) Antel LPA-80063/4CF (2) Antel LPA-80063-6CF (2) Antel BXA-70063-4CF (1) Antel BXA-70063-6CF (2) Antel BXA-171063/8BF (1) Antel BXA-171063/12BF (6) RFS FD9R6004/2C-3L Diplexers								
118	(12) Decibel DB844H90E-XY					(12) 1-5/8"	Nextel	117	(3) 12' T-Frames
85	(1) Decibel DB26 GPS					(1) 1/2"	Verizon	81.5	(1) 24.5" Standoff
10	(1) Channel Master 6922 Dish					(1) RG-6	American Messaging	10	(1) Pipe Mount

Proposed Loading:

Antenna Elevation (ft)	Description	Coax and Lines	Carrier	Mount Elevation (ft)	Mount Type
138.5	(3) RFS APXVSP18-C-A20 (3) Alcatel Lucent 1900 MHz RRHs (3) Alcatel Lucent 800 MHz RRHs (3) Alcatel Lucent 800 MHz Filters (4) RFS ACU-A20-N RETs	(3) 1-1/4" Fiber	Sprint	138	(3) 13' T-Frames

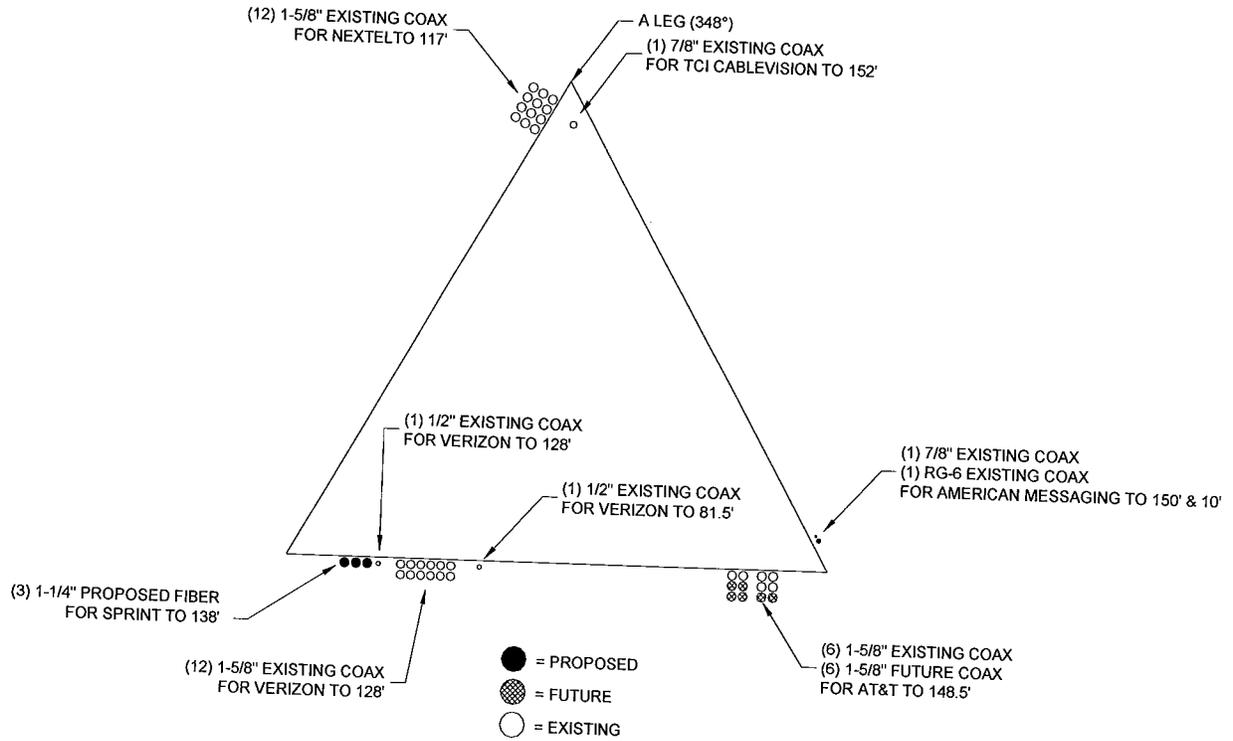


Figure 1 – Coax Layout

RESULTS

The following yield strength of steel for individual members was used for analysis:

Table 2 - Material Strength

Member Type	Yield Strength
Legs	50 ksi
Bracing	36 ksi

Table 3 displays the summary of the ratio (as a percentage) of force in the member to their capacities. Values greater than 100% indicate locations where the maximum force in the member exceeds its capacity. **Table 4** displays the maximum foundation reactions.

If the assumptions outlined in this report differ from actual field conditions, FDH Engineering, Inc. should be contacted to perform a revised analysis. Furthermore, as no information pertaining to the allowable twist and sway requirements for the existing or proposed appurtenances was provided, deflection and rotation were not taken into consideration when performing this analysis.

See the **Appendix** for detailed modeling information

Table 3 - Summary of Working Percentage of Structural Components

Section No.	Elevation ft	Component Type	Size	% Capacity	Pass Fail
T1	152 - 140	Leg	ROHN 2 STD	13.3	Pass
		Diagonal	L1 1/2x1 1/2x1/8	34.6 37.5 (b)	Pass
		Top Girt	L2x2x1/8	12.4	Pass
T2	140 - 135	Leg	ROHN 2.5 STD	15.4	Pass
		Diagonal	L1 3/4x1 3/4x1/8	44.8 47.5 (b)	Pass
T3	135 - 130	Leg	ROHN 2.5 STD	24.1	Pass
		Diagonal	L1 3/4x1 3/4x1/8	56.8 57.9 (b)	Pass
T4	130 - 125	Leg	ROHN 2.5 STD	35.1	Pass
		Diagonal	L1 3/4x1 3/4x1/4	49.8 57.8 (b)	Pass
T5	125 - 120	Leg	ROHN 2.5 STD	48.3	Pass
		Diagonal	L1 3/4x1 3/4x1/4	63.5 68.0 (b)	Pass
T6	120 - 113.333	Leg	ROHN 2.5 X-STR	61.0	Pass
		Diagonal	L2x2x1/8 w/ L2x2x1/8	43.6 83.3 (b)	Pass
T7	113.333 - 106.667	Leg	ROHN 2.5 X-STR	79.6	Pass
		Diagonal	L2x2x1/8 w/ L2x2x1/8	51.8 90.7 (b)	Pass
T8	106.667 - 100	Leg	ROHN 2.5 X-STR	97.1	Pass
		Diagonal	L2x2x1/8 w/ L2x2x1/8	55.8 88.6 (b)	Pass
T9	100 - 93.3333	Leg	ROHN 2.5 X-STR	79.9	Pass
		Diagonal	L2x2x3/8	68.3 88.5 (b)	Pass
T10	93.3333 - 86.6667	Secondary Horizontal	L2 1/2x2 1/2x3/16	9.7 15.4 (b)	Pass
		Leg	ROHN 2.5 X-STR	91.1	Pass

Section No.	Elevation ft	Component Type	Size	% Capacity	Pass Fail
		Diagonal	L2x2x3/8	75.8 89.8 (b)	Pass
		Secondary Horizontal	L2 1/2x2 1/2x3/16	12.6 17.6 (b)	Pass
T11	86.6667 - 80	Leg	2.5 EH w/ 3 sch 80	88.1	Pass
		Diagonal	L2x2x3/8	82.2 90.5 (b)	Pass
T12	80 - 73.3333	Leg	ROHN 3 X-STR	80.7	Pass
		Diagonal	L2 1/2x2 1/2x3/16	87.2 90.5 (b)	Pass
		Secondary Horizontal	L2 1/2x2 1/2x3/16	15.0	Pass
T13	73.3333 - 66.6667	Leg	ROHN 3 X-STR	88.2	Pass
		Diagonal	L2 1/2x2 1/2x1/4	75.5	Pass
		Secondary Horizontal	L2 1/2x2 1/2x3/16	18.3	Pass
T14	66.6667 - 60	Leg	ROHN 3 X-STR	95.6	Pass
		Diagonal	L2 1/2x2 1/2x1/4	83.4	Pass
		Secondary Horizontal	L2 1/2x2 1/2x3/16	21.5	Pass
T15	60 - 50	Leg	ROHN 4 X-STR	74.1	Pass
		Diagonal	L3x3x1/4	73.2	Pass
		Secondary Horizontal	L2 1/2x2 1/2x3/16	26.2	Pass
T16	50 - 40	Leg	ROHN 4 X-STR	81.9	Pass
		Diagonal	L3x3x1/4	83.1	Pass
		Secondary Horizontal	L2 1/2x2 1/2x3/16	32.2	Pass
T17	40 - 30	Leg	ROHN 4 X-STR	89.7	Pass
		Diagonal	L3x3x3/8	61.9 73.4 (b)	Pass
		Secondary Horizontal	L3x3x3/16	30.9 34.4 (b)	Pass
T18	30 - 20	Leg	ROHN 4 X-STR	97.1	Pass
		Diagonal	L3x3x3/8	69.8 75.8 (b)	Pass
		Secondary Horizontal	L3x3x3/16	37.7	Pass
T19	20 - 10	Leg	5 SCH40 w/ 1/2 6 SCH80	68.1	Pass
		Diagonal	L3 1/2x3 1/2x1/4	68.3 78.3 (b)	Pass
T20	10 - 0	Leg	5 SCH40 w/ 1/2 6 SCH80	72.8 86.3 (b)	Pass
		Diagonal	L3 1/2x3 1/2x1/4	80.1 84.0 (b)	Pass

*Capacities include a 1/3 allowable stress increase for wind.

Table 4 - Maximum Base Reactions

Load Type	Direction	Current Analysis* (TIA/EIA-222-F)	Original Design (EIA-222-C)
Individual Foundation	Horizontal	20 k	---
	Uplift	148 k	80 k
	Compression	175 k	95 k
Overtopping Moment	---	2,962 k-ft	1,557 k

*Foundations adequate per independent analysis.

GENERAL COMMENTS

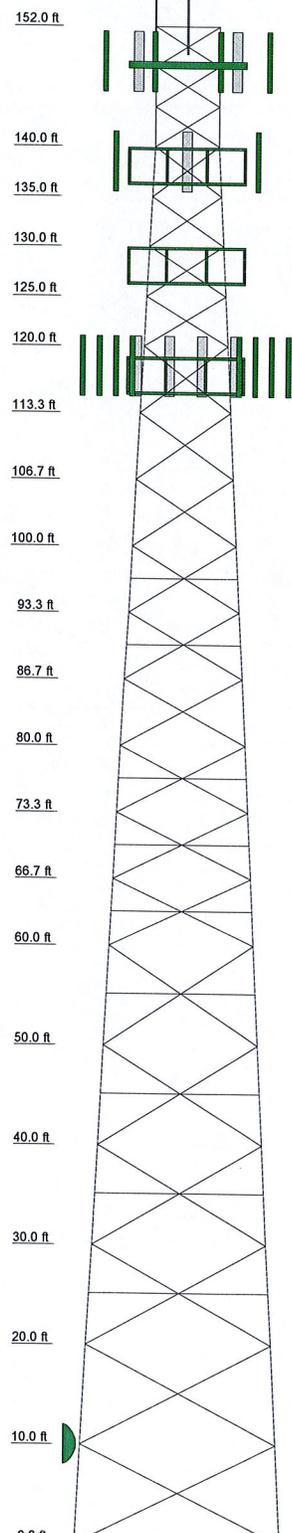
This engineering analysis is based upon the theoretical capacity of the structure. It is not a condition assessment of the tower and its foundation. It is the responsibility of SBA Network Services, Inc. to verify that the tower modeled and analyzed is the correct structure (with accurate antenna loading information) modeled. If there are substantial modifications to be made or the assumptions made in this analysis are not accurate, FDH Engineering, Inc. should be notified immediately to perform a revised analysis.

LIMITATIONS

All opinions and conclusions are considered accurate to a reasonable degree of engineering certainty based upon the evidence available at the time of this report. All opinions and conclusions are subject to revision based upon receipt of new or additional/updated information. All services are provided exercising a level of care and diligence equivalent to the standard and care of our profession. No other warranty or guarantee, expressed or implied, is offered. Our services are confidential in nature and we will not release this report to any other party without the client's consent. The use of this engineering work is limited to the express purpose for which it was commissioned and it may not be reused, copied, or distributed for any other purpose without the written consent of FDH Engineering, Inc.

APPENDIX

Section	T19	T18	T17	T16	T15	T14	T13	T12	T11	T10	T9	T8	T7	T6	T5	T4	T3	T2	T1
Legs	5 SCH40 w/ 1/2 6 SCH80																		ROHN 2 STD
Leg Grade																			ROHN 2.5 STD
Diagonals	L3 1/2x3 1/2x1/4	L3x3x3/8	L3x3x1/4	L3x3x1/4	L2 1/2x2 1/2x1/4	L2 1/2x2 1/2x1/4	L2x2x3/8	L2x2x3/8	L2x2x3/8	L2x2x3/8	L2x2x1/8 w/ L2x2x1/8								L1 1/2x1 1/2x1/8
Diagonal Grade																			
Top Girts																			L2x2x1/8
Sec. Horizontals	N.A.	L3x3x3/16	N.A.	L2 1/2x2 1/2x3/16	L2 1/2x2 1/2x3/16	L2 1/2x2 1/2x3/16	N.A.	L2 1/2x2 1/2x3/16	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Face Width (ft)	20.7813	19.776	18.7708	17.7344	16.6979	15.6679	14.6392	11.9236	11.2431	10.5625	9.89553	9.22917	8.5625	8.0625	7.5625	7.0625	6.5625	6.52083	6.52083
# Panels @ (ft)		6 @ 10						9 @ 6.86867											3 @ 4
Weight (K)	14.8																		0.3



DESIGNED APPURTENANCE LOADING

TYPE	ELEVATION	TYPE	ELEVATION
201-7	152	RFS APXVSP18-C-A20 w/Mount Pipe	138
DB589	150	(2) Antel LPA-80063/4CF w/Mount Pipe	128
(1) Pipe Mount MNT	150	(2) Antel LPA-80063-6CF w/ mount pipe	128
(2) 7770.00 w/ mount pipe	148.5	Antel BXA-70063-4CF w/ mount pipe	128
(2) 7770.00 w/ mount pipe	148.5	Antel BXA-70063-4CF w/ mount pipe	128
(2) LGP21401 TMA	148.5	Antel BXA-70063-6CF w/ mount pipe	128
(2) LGP21401 TMA	148.5	Antel - BXA-171063/8BF w/ mount pipe	128
(2) LGP21901 Diplexer	148.5	Antel - BXA-171063/8BF w/ mount pipe	128
(2) LGP21901 Diplexer	148.5	BXA-171063/12BF w/ Mount Pipe	128
(2) LGP21901 Diplexer	148.5	(2) RFS - FD9R6004/2C-3L Diplexer	128
(3) T-Frames MNT	148.5	(2) RFS - FD9R6004/2C-3L Diplexer	128
(2) 7770.00 w/ mount pipe	148.5	(2) RFS - FD9R6004/2C-3L Diplexer	128
RFS APXVSP18-C-A20 w/Mount Pipe	138	DB26 GPS	128
RFS APXVSP18-C-A20 w/Mount Pipe	138	(3) 12.5' T-Frames MNT	128
Alcatel Lucent 1900 MHz RRH	138	(2) Antel LPA-80063/4CF w/Mount Pipe	128
Alcatel Lucent 1900 MHz RRH	138	(4) DB844H90E-XY w/ Mount Pipe	117
Alcatel Lucent 800 MHz RRH	138	(3) 12' T-Frames MNT	117
Alcatel Lucent 800 MHz RRH	138	(4) DB844H90E-XY w/ Mount Pipe	117
Alcatel Lucent 800 MHz RRH	138	(4) DB844H90E-XY w/ Mount Pipe	117
Alcatel Lucent 800 MHz Filter	138	DB26 GPS	81.5
Alcatel Lucent 800 MHz Filter	138	24.5" Standoff MNT	81.5
RFS ACU-A20-N RET	138	(1) Pipe Mount MNT	10
RFS ACU-A20-N RET	138	Channel Master 6922 Dish	10
(2) RFS ACU-A20-N RET	138		
(3) 13' T-Frames MNT	138		

SYMBOL LIST

MARK	SIZE	MARK	SIZE
A	2.5 EH w/ 3 sch 80	C	L1 3/4x1 3/4x1/4
B	L1 3/4x1 3/4x1/8	D	L2 1/2x2 1/2x3/16

MATERIAL STRENGTH

GRADE	Fy	Fu	GRADE	Fy	Fu
A572-50	50 ksi	65 ksi	A36	36 ksi	58 ksi

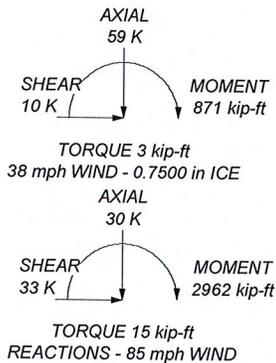
TOWER DESIGN NOTES

1. Tower is located in New Haven County, Connecticut.
2. Tower designed for a 85 mph basic wind in accordance with the TIA/EIA-222-F Standard.
3. Tower is also designed for a 38 mph basic wind with 0.75 in ice. Ice is considered to increase in thickness with height.
4. Deflections are based upon a 50 mph wind.
5. TOWER RATING: 97.1%

MAX. CORNER REACTIONS AT BASE:

DOWN: 175 K
SHEAR: 20 K

UPLIFT: -148 K
SHEAR: 18 K



<p>FDH Engineering, Inc. 5621 Meridian Drive Raleigh, NC 27616 Phone: (919) 755-1012 FAX: (919) 755-1031</p>	<p>Job: Guilford, CT13065-A</p>		
	<p>Project: 12-04638E S1</p>		
	<p>Client: SBA</p> <p>Code: TIA/EIA-222-F</p> <p>Path:</p>	<p>Drawn by: William Price</p> <p>Date: 05/08/12</p>	<p>App'd:</p> <p>Scale: NTS</p> <p>Dwg No. E-1</p>



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RADIO FREQUENCY EMISSIONS ANALYSIS REPORT
EVALUATION OF HUMAN EXPOSURE POTENTIAL
TO NON-IONIZING EMISSIONS

Sprint Existing Facility

Site ID: CT03XC068

North Guilford
331 Killingworth Road
Guilford, CT 06437

August 08, 2012

August 8, 2012

Sprint
Attn: RF Engineering Manager
1 International Boulevard, Suite 800
Mahwah, NJ 07495

Re: Emissions Values for Site **CT03XC068 – North Guilford**

EBI Consulting was directed to analyze the proposed upgrades to the existing Sprint facility located at 331 Killingworth Road, Guilford, CT, for the purpose of determining whether the emissions from the proposed Sprint equipment upgrades on this property are within specified federal limits.

All information used in this report was analyzed as a percentage of current Maximum Permissible Exposure (% MPE) as listed in the FCC OET Bulletin 65 Edition 97-01 and ANSI/IEEE Std C95.1. The FCC regulates Maximum Permissible Exposure in units of microwatts per square centimeter ($\mu\text{W}/\text{cm}^2$). The number of $\mu\text{W}/\text{cm}^2$ calculated at each sample point is called the power density. The exposure limit for power density varies depending upon the frequencies being utilized. Wireless Carriers and Paging Services use different frequency bands each with different exposure limits, therefore it is necessary to report results and limits in terms of percent MPE rather than power density.

All results were compared to the FCC (Federal Communications Commission) radio frequency exposure rules, 47 CFR 1.1307(b)(1) – (b)(3), to determine compliance with the Maximum Permissible Exposure (MPE) limits for General Population/Uncontrolled environments as defined below.

General population/uncontrolled exposure limits apply to situations in which the general public may be exposed or in which persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Therefore, members of the general public would always be considered under this category when exposure is not employment related, for example, in the case of a telecommunications tower that exposes persons in a nearby residential area.

Public exposure to radio frequencies is regulated and enforced in units of microwatts per square centimeter ($\mu\text{W}/\text{cm}^2$). The general population exposure limit for the cellular band is approximately $567 \mu\text{W}/\text{cm}^2$, and the general population exposure limit for the PCS band is $1000 \mu\text{W}/\text{cm}^2$. Because each carrier will be using different frequency bands, and each frequency band has different exposure limits, it is necessary to report percent of MPE rather than power density.



Occupational/controlled exposure limits apply to situations in which persons are exposed as a consequence of their employment and in which those persons who are exposed have been made fully aware of the potential for exposure and can exercise control over their exposure. Occupational/controlled exposure limits also apply where exposure is of a transient nature as a result of incidental passage through a location where exposure levels may be above general population/uncontrolled limits (see below), as long as the exposed person has been made fully aware of the potential for exposure and can exercise control over his or her exposure by leaving the area or by some other appropriate means.

Additional details can be found in FCC OET 65.

CALCULATIONS

Calculations were done for the proposed upgrades to the existing Sprint Wireless antenna facility located at 331 Killingworth Road, Guilford, CT, using the equipment information listed below. All calculations were performed per the specifications under FCC OET 65. All calculations were performed assuming the main lobe of the antenna was focused at the base of the tower to present a worst case scenario. Actual values seen from this site will be dramatically less than those shown in this report. For this report the sample point is the top of a 6 foot person standing at the base of the tower.

For all calculations, all emissions were calculated using the following assumptions:

- 1) 2 CDMA Carriers (1900 MHz) were considered for each sector of the proposed installation.
- 2) 1 CDMA Carrier (850 MHz) was considered for each sector of the proposed installation
- 3) All radios at the proposed installation were considered to be running at full power and were uncombined in their RF transmissions paths per carrier prescribed configuration. Per FCC OET Bulletin No. 65 - Edition 97-01 recommendations to achieve the maximum anticipated value at each sample point, all power levels emitting from the proposed antenna installation are increased by a factor of 2.56 to account for possible in-phase reflections from the surrounding environment. This is rarely the case, and if so, is never continuous.
- 4) For the following calculations the sample point was the top of a six foot person standing at the base of the tower. The actual gain in this direction was used per the manufactures supplied specifications.
- 5) The antenna used in this modeling is the RFS APXVSP18-C-A20. This is based on feedback from the carrier with regards to anticipated antenna selection. This antenna has a 15.9 dBd gain value at its main lobe at 1900 MHz and 13.4 dBd at its main lobe for 850 MHz. All calculations were performed assuming the main lobe of the antenna was focused at the base of the tower to present a worst case scenario.



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- 6) The antenna mounting height centerline of the proposed antennas is **138.5 feet** above ground level (AGL)
- 7) Emissions values for additional carriers were taken from the Connecticut Siting Council active database. Values in this database are provided by the individual carriers themselves.

All calculation were done with respect to uncontrolled / general public threshold limits



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Summary

All calculations performed for this analysis yielded results that were well within the allowable limits for general public exposure to RF Emissions.

The anticipated Maximum Composite contributions from the Sprint facility are **12.745% (4.248% from each sector)** of the allowable FCC established general public limit considering all three sectors simultaneously sampled at the ground level.

The anticipated composite MPE value for this site assuming all carriers present is **46.165%** of the allowable FCC established general public limit sampled at the ground level. This is based upon values listed in the Connecticut Siting Council database for existing carrier emissions

FCC guidelines state that if a site is found to be out of compliance (over allowable thresholds), that carriers over a 5% contribution to the composite value will require measures to bring the site into compliance. For this facility, the composite values calculated were well within the allowable 100% threshold standard per the federal government

Scott Heffernan
RF Engineering Director

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Burlington, MA 01803



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August 16, 2012

sbsite.com

David Martin
Connecticut Siting Council
Ten Franklin Square
New Britain, CT 06051

RECEIVED
AUG 17 2012

CONNECTICUT
SITING COUNCIL

RE: 8 Exempt Modification Packages

Dear Mr. Martin:

On behalf of Sprint Spectrum, SBA Communications is submitting 8 exempt modification applications to the Connecticut Siting council for the sites listed below. In each application package you will find five (5) copies of a passing Structural Analysis, five (5) EME studies, five (5) sets of drawings, and a check in the amount of \$625.

CT33XC604-297 North St. Plymouth, CT
CT03XC068-331 Killingworth Road Guilford, CT
CT33XC521-11 Francis J. Clarke Circle Bethel, CT
CT54XC770-151 Berkshire Road Newtown, CT
CT43XC865-39 Ciro Road North Branford, CT
CT43XC809-500 Highland Ave. Cheshire, CT
CT03XC033-108 Foxon Road North Branford, CT
CT54XC717-459 Burr Road Southbury, CT

Please let me know if you require any additional materials in order to process these applications.

Thank you,

Rick Woods
SBA Communications Corporation
One Research Dr. Suite 200C
Westborough, MA 01581
508-366-5505 x 319 + T
508-366-5507 + F
508-614-0389 + C
rwoods@sbsite.com



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

www.ct.gov/csc

August 22, 2012

The Honorable Joseph S. Mazza
First Selectman
Town of Guilford
Town Hall
31 Park Street
Guilford, CT 06437

RE: **EM-SPRINT-060-120817** – Sprint Spectrum notice of intent to modify an existing telecommunications facility located at 331 Killingworth Road, Guilford, Connecticut.

Dear First Selectman Mazza:

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 September 5, 2012.

Thank you for your cooperation and consideration.

Very truly yours,

Linda Roberts
Executive Director

LR/jbw

Enclosure: Notice of Intent

c: Regina Reid, Zoning Enforcement Officer, Town of Guilford