



Filed by:

Kri Pelletier, Property Specialist - SBA Communications
134 Flanders Rd., Suite 125, Westborough, MA 01581
508.251.0720 x 3804 - kpelletier@sbsite.com

March 14, 2018

Melanie A. Bachman
Acting Executive Director
Connecticut Siting Council
Ten Franklin Square
New Britain, CT 06051

Notice of Exempt Modification
225 Grist Mill Road, Simsbury, CT 06070
41 52 0.15 N
-72 48 56.78 W
Sprint #: CT70XC140

RE: Incomplete – EM-Sprint-128-180201-Grist Mill Road

Dear Ms. Bachman:

Per Council's request under Incomplete Notice - EM-Sprint-128-180201-Grist Mill Road, attached, please find an updated Structural Analysis Report.

In accordance with R.C.S.A. § 16.50j-73, a copy of this letter and the Report is being sent to the Town of Simsbury's First Selectman, Eric Wellman, and Director of Planning and Community Development, James D. Rabbitt, as well as to the property owner, Ensign-Bickford Realty Corporation. (Separate notice is not being sent to tower owner, as it belongs to SBA.)

Please let us know if you need anything further.

Sincerely,

Kri Pelletier
Property Specialist
SBA COMMUNICATIONS CORPORATION
134 Flanders Rd., Suite 125, Westborough, MA 01581
508.251.0720 x3804 + T - 508.366.2610 + F
kpelletier@sbsite.com

Attachments



cc: Eric Wellman, First Selectman / with attachments
Town of Simsbury, 933 Hopmeadow Street, Simsbury CT 06070
James D. Rabbitt, Director of Planning and Community Development / with attachments
Town of Simsbury, 933 Hopmeadow Street, Simsbury CT 06070
Ensign-Bickford Realty Corporation / with attachments
For FedEx Delivery: 125 Powder Forest Drive, Simsbury, CT 06070

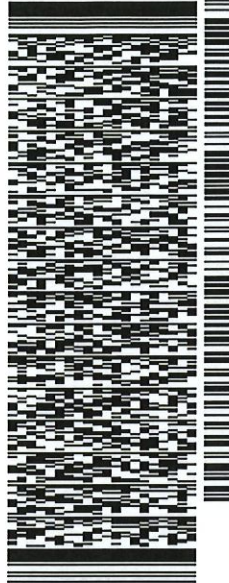
ORIGIN ID:BBFA (508) 614-0389
RICK WOODS
SBA NETWORK SERVICES INC
134 FLANDERS ROAD
SUITE 125
WESTBOROUGH MA 01581
UNITED STATES US

SHIP DATE: 14MAR18
ACTWGT: 1.00 LB
CAD: 105843304/NET3980
BILL SENDER

TO
ERIC WELLMAN, FIRST SELECTMAN
TOWN OF SIMSBURY
933 HOPMEADOW STREET

SIMSBURY CT 06070
(508) 251-0720 X 3804
INVT: REF: 10-56-92009-6089
PO: DEPT:

552J107F5/DCA5



TRK# 7800 5106 0025
THU - 15 MAR 10:30A
PRIORITY OVERNIGHT

EB MPEA
06070
CT-US BDL



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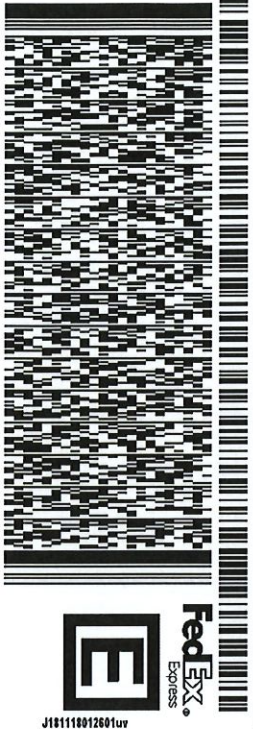
Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com. FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our ServiceGuide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

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RICK WOODS
SBA NETWORK SERVICES INC
134 FLANDERS ROAD
SUITE 125
WESTBOROUGH, MA 01581
UNITED STATES US

SHIP DATE: 14MAR18
ACTWT: 1.00 LB
CAD: 105843304/NET3980
BILL SENDER

TO **JAMES RABBITT, DIR.-PLANNING & DEV.**
TOWN OF SIMSBURY
OFFICE OF PLANNING/DEVELOPMENT
933 HOPMEADOW STREET
SIMSBURY CT 06070
PO. DEPT:
NV. (508) 251-0720 X 3804 REF: 10-56-92009-6089
DEPT:

552J1A07F5/DCA5



TRK# 0201 7800 5114 3194
THU - 15 MAR 10:30A
PRIORITY OVERNIGHT

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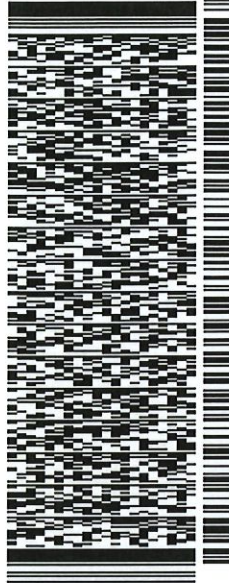
ORIGIN ID:BBFA (508) 614-0389
RICK WOODS
SBA NETWORK SERVICES INC
134 FLANDERS ROAD
SUITE 125
WESTBOROUGH MA 01581
UNITED STATES US

SHIP DATE: 14MAR18
ACTWT/GT: 1.00 LB
CAD: 105843304/NET3980
BILL SENDER

TO **PRESIDENT OR MANAGER**
ENSGN-BICKFORD REALTY CORP.
125 POWDER FOREST DRIVE

SIMSBURY CT 06070
(508) 251-0720 X 3804 REF: 10-56-92009-8089
IN: DEPT:
PO:

552J1A07F5/DCA5



J181118012601ur

TRK# 7800 5117 2709 THU - 15 MAR 10:30A
0201 PRIORITY OVERNIGHT

EB MPEA

06070
CT-US BDL



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February 14, 2018

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

Kri Pelletier
Property Specialist
SBA Communications
134 Flanders Road, Suite 125
Westborough, MA 01581

RE: **EM-SPRINT-128-180201** – Sprint notice of intent to modify an existing telecommunications facility located at 225 Grist Mill Road, Simsbury, Connecticut.

Dear Ms. Pelletier:

The Connecticut Siting Council (Council) received a notice of intent to modify the above-referenced facility on February 1, 2018.

According to Section 16-50j-71 of the Regulations of Connecticut State Agencies, "...any modification, as defined in Section 16-50j-2a of the Regulations of Connecticut State Agencies, to an existing tower site, except as specified in Sections 16-50j-72 and 16-50j-88 of the Regulations of Connecticut State Agencies, may have a substantial adverse environmental effect."

Staff has reviewed this exempt modification request for completeness and has identified a discrepancy between the Structural Analysis Report dated November 1, 2017 and the site plan sheet numbers A-2 and S-1 dated January 26, 2018. Provide an Updated Structural Analysis Report that accounts for the data referenced in the above referenced site plans which requires installing additional mount hardware.

Therefore, the exempt modification request is incomplete at this time. The Council recommends that SBA provide an Updated Structural Analysis Report including the additional mount hardware on or before March 19, 2018. If additional time is needed to gather the requested information, please submit a written request for an extension of time prior to March 19, 2018.

This notice of incompleteness shall have the effect of tolling the Federal Communications Commission (FCC) 60-day timeframe in accordance with Paragraph 217 of the FCC Wireless Infrastructure Report and Order issued on October 21, 2014 (FCC 14-153).

Thank you for your attention to this matter. Should you have any questions, please feel free to contact me at 860-827-2951.

Sincerely,

Melanie Bachman
Executive Director

MAB/FC

- c: The Honorable Eric Wellman, First Selectman, Town of Simsbury
Michael Glidden, Assistant Town Planner, Town of Simsbury
Ensign-Bickford Realty Corp., Property owner



CONNECTICUT SITING COUNCIL
Affirmative Action / Equal Opportunity Employer



Tower Engineering Solutions

Phone (972) 483-0607, Fax (972) 975-9615
8445 Freepoint Parkway, Suite 375, Irving, Texas 75063

Structural Analysis Report

Existing 150 ft. Rohn Monopole

Customer Name: SBA Communications Corp

Customer Site Number: CT10022-A

Customer Site Name: Simsbury 2, CT

Carrier Name: Sprint Nextel

Carrier Site ID / Name: CT70XC140 / Simsbury 2, CT

Site Location: 225 Grist Mill Road

Simsbury, Connecticut

Hartford County

Latitude: 41.866708

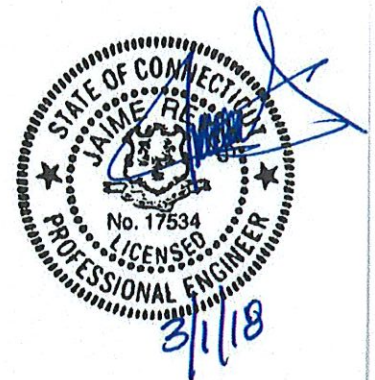
Longitude: -72.815772

Analysis Result:

Max Structural Usage: 86.2% [Pass]

Max Foundation Usage: 65.0% [Pass]

Additional Usage Caused by Mount Modification: +1.5%



Report Prepared By : Delu Zhou

Introduction

The purpose of this report is to summarize the analysis results on the 150 ft Rohn Monopole to support the proposed antennas and transmission lines in addition to those currently installed. Any modification listed under Sources of Information was assumed completed and was included in this analysis.

Sources of Information

Tower Drawings	Rohn Industries, Inc., File No. 50754AE, Drawing No. A020293, dated Feb. 13, 2002
Foundation Drawing	Rohn Industries, Inc., File No. 50754AE, Drawing No. A020294 1-3, dated Feb. 13, 2002
Geotechnical Report	FDH Engineering, Inc., Project No. 15BGSH1600, dated March 19, 2015
Modification Drawings	N/A

Analysis Criteria

The rigorous analysis was performed in accordance with the requirements and stipulations of the ANSI/TIA/EIA 222-G. In accordance with this standard, the structure was analyzed using **TESPoles**, a proprietary analysis software. The program considers the structure as an elastic 3-D model with second-order effects and temperature effects incorporated in the analysis. The analysis was performed using multiple wind directions.

Wind Speed Used in the Analysis:	Ultimate Design Wind Speed $V_{ult} = 120.0$ mph (3-Sec. Gust)/ Nominal Design Wind Speed $V_{asd} = 93.0$ mph (3-Sec. Gust)
Wind Speed with Ice:	50 mph (3-Sec. Gust) with 1" radial ice concurrent
Operational Wind Speed:	60 mph + 0" Radial ice
Standard/Codes:	ANSI/TIA/EIA 222-G / 2012 IBC / 2016 Connecticut State Building Code
Exposure Category:	C
Structure Class:	II
Topographic Category:	1
Crest Height:	0 ft.
Seismic Parameters:	$S_s = 0.179$, $S_1 = 0.064$

This structural analysis is based upon the tower being classified as a Structure Class II; however, if a different classification is required subsequent to the date hereof, the tower classification will be changed to meet such requirement and a new structural analysis will be run.

Existing Antennas, Mounts and Transmission Lines

The table below summarizes the antennas, mounts and transmission lines that were considered in the analysis as existing on the tower.

Items	Elevation (ft.)	Qty.	Antenna Descriptions	Mount Type & Qty.	Transmission Lines	Owner
1	150.0	2	Powerwave P65-17-XLH-RR - Panel	Low Profile Platform	(12) 1 5/8" (2) 1/2" DC (4) 3/8" Fiber (1) 3" Conduit	AT&T
2		1	KMW AM-X-CD-16-65-00T-RET - Panel			
3		3	Kathrein 800 10121 - Panel			
4		2	CCI TPA-65R-LCUUUU-H8 - Panel			
5		1	Quintel QS66512-3 - Panel			
6		6	CCI DTMABP7819VG12A-TMAs			
7		3	Ericsson RRUS-11-RRUs			
8		3	Ericsson RRUS-32-RRHs			
9		3	Ericsson RRUS 32 B2-RRHs			
10		6	CCI TPX-070821-Diplexers			
11		3	CSS DBC-750-Combiners			
12		1	Commscope ABT-DRDM-ADBH-Bias T			
13		1	LMU			
14		2	Raycap DC6-48-60-18-8F-DC			
15	141.0	3	Alcatel Lucent RRH2X60-700 - RRU	Low Profile Platform	(12) 1 5/8" (2) 1 5/8" Hybrid	Verizon
16		3	Alcatel Lucent RRH2X60-AWS - RRU			
17		3	Alcatel Lucent RRH2X60-PCS - RRU			
18		3	Antel BXA-70063-6CF-EDIN-0 - Panel			
19		3	Antel BXA-70080-4CF-EDIN-0 - Panel			
20		6	Commscope SBNHH-1D65B - Panel			
21	2	RFS DB-T1-6Z-8AB-OZ – Distribution Box				
22	131.0	3	Commscope LNX-6515DS - Panel	(3) T-Arms (Site Pro P/N UDS-NPL)	(18) 7/8"	T-Mobile
23		3	Ericsson KRY 144/1			
24		3	Kathrein 782 11056			
25		3	RFS APX16DWV-16DWVS-C - Panel			
26		3	RFS ATM1412D-1A20			
-	123.0	2	RFS - APXVSP18-C-A20 - Panel	Low Profile Platform	(4) 1-1/4" Fiber	Sprint Nextel
-		1	RFS - APXVSP18-C-A20 (50 lb) - Panel			
-		3	RFS - APXVTM14-C-I20 - Panel			
-		4	RFS - ACU-A20-N - RET			
-		3	ALU - TD-RRH8x20-25 - RRU			
-		3	ALU - 1900 MHz RRH			
-		3	ALU - 800 MHz RRH			
-		3	ALU - 800 MHz Filter			

Proposed Carrier's Final Configuration of Antennas, Mounts and Transmission Lines

Information pertaining to the proposed carrier's final configuration of antennas and transmission lines was provided by SBA Communications Corp. The proposed antennas and lines are listed below.

Items	Elevation (ft.)	Qty.	Antenna Descriptions	Mount Type & Qty.	Transmission Lines	Owner
27	123.0	2	RFS - APXVSP18-C-A20 - Panel	Platform w/ Handrail Kit [SitePro1 HRK14]	(4) 1-1/4" Fiber	Sprint Nextel
28		1	RFS - APXVSP18-C-A20 (50 lb) - Panel			
29		3	RFS - APXVTM14-C-I20 - Panel			
30		4	RFS - ACU-A20-N - RET			
31		3	ALU - TD-RRH8x20-25 - RRU			
32		3	ALU - 1900 MHz RRH - RRU			
33		3	ALU - 800 MHz RRH - RRU			
34		3	ALU - 800 MHz Filter			

All transmission lines are considered running inside of the pole shafts.

Analysis Results

The results of the structural analysis, performed for the wind and ice loading and antenna equipment as defined above, are summarized as the following:

	Pole shafts	Anchor Bolts	Base Plate
Max. Usage:	86.2%	75.0%	80.5%
Pass/Fail	Pass	Pass	Pass

Foundations

	Moment (Kip-Ft)	Shear (Kips)	Axial (Kips)
Analysis Reactions	3640.6	32.7	80.7

The foundation has been investigated using the supplied documents and soils report and was found adequate. Therefore, no modification to the foundation will be required.

Operational Condition (Rigidity):

Operational characteristics of the tower are found to be within the limits prescribed by ANSI/TIA/EIA 222-G for the installed antennas. The maximum twist/sway at the elevation of the proposed equipment is 1.1221 degrees under the operational wind speed as specified in the Analysis Criteria.

Conclusions

Based on the analysis results, the existing structure and its foundation were found to be adequate to safely support the existing and proposed equipment and meet the minimum requirements per the ANSI/TIA/EIA 222-G Standard under the design basic wind speed as specified in the Analysis Criteria.

Standard Conditions

1. This analysis was performed based on the information supplied to **(TES) Tower Engineering Solutions, LLC**. Verification of the information provided was not included in the Scope of Work for **TES**. The accuracy of the analysis is dependent on the accuracy of the information provided.
2. The analysis is based on the presumption that the tower members and components along with any existing reinforcement items have been correctly and properly designed, manufactured, installed and maintained.
3. All the existing structural members were assumed to be in good condition with no physical damage or deterioration associated with corrosion.
4. An initial tension of 10% of the break strength on all the existing guy wires was assumed in all the structural analyses of guyed towers unless different values were provided by the client. **TES** cannot take responsibility for the deviations in the analysis results because of differences in the initial tension forces of the existing guy wires.
5. Secondary component or connection secondary components, welds and bolts are assumed to be able to carry their intended original design loads. **TES** cannot take responsibility for verification of the adequacy on the connections, bolts and welds present in the structure.
6. The analyses will be performed based on the codes as specified by the client or based on the best knowledge of the engineering staff of **TES**. In the absence of information to the contrary, all work will be performed in accordance with the latest relevant revision of ANSI/TIA-222. If wind speed and/or ice loads are different from the minimum values recommended by the EIA/TIA-222 standard or other codes, **TES** should be notified in writing and the applicable minimum values provided by the client.
7. The configuration of the existing mounts, antennas, coax and other appurtenances were supplied by the customer for the current structural analysis. **TES** has not visited the tower site to verify the adequacy of the information provided. If there is any discrepancy found in the report regarding the existing conditions, **TES** should be notified immediately to evaluate the effect of the discrepancy on the analysis results.
8. The client will assume responsibility for rework associated with the differences in initially provided information, including tower and foundation information, existing and/or proposed equipment and transmission lines.
9. If a feasibility analysis was performed, final acceptance of changed conditions shall be based upon a rigorous structural analysis.