



STATE OF CONNECTICUT

CONNECTICUT SITING COUNCIL

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VIA ELECTRONIC MAIL

February 7, 2024

Allison Conwell
Centerline Communications LLC
750 West Center St., Suite 301
West Bridgewater, MA 02379
aconwell@clinellc.com

RE: EM-ATT-086-240110 – New Cingular Wireless PCS, LLC (AT&T) notice of intent to modify an existing telecommunications facility located at 71 Moxley Road, Montville (Uncasville), Connecticut. **Acknowledgement of Complete Request.**

Dear Allison Conwell:

The Connecticut Siting Council (Council) is in receipt of your correspondence of February 2, 2024 submitted in response to the Council's January 24, 2024 notification of an incomplete request for exempt modification with regard to the above-referenced matter.

The submission renders the request for exempt modification complete and the Council will process the request in accordance with the Federal Communications Commission 60-day timeframe.

Thank you for your attention and cooperation.

Sincerely,

Melanie Bachman
Executive Director

MAB/ANM/laf

From: Allison Conwell <aconwell@clinellc.com>
Sent: Friday, February 2, 2024 12:28 PM
To: Fontaine, Lisa <Lisa.Fontaine@ct.gov>
Cc: CSC-DL Siting Council <Siting.Council@ct.gov>
Subject: RE: Council Incomplete Letter EM-ATT-086-240110 – (Moxley Road)-Montville (Uncasville)

Please see attached revised SA report. The hard copy will be going out in the mail today.

Best Regards,

Centerline has a new look. For more information about our rebrand, click [here](#).



Allison Conwell | Site Acquisition Consultant
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aconwell@clinellc.com | www.centerlinecommunications.com

Building a better network.

Smart design. Quality construction. Reliable maintenance.

STRUCTURAL ANALYSIS REPORT

190' Modified Guyed Tower

71 Moxley Road
Ucansville, CT 06382
41.4352 N, 72.1233 W

SBA Site Name: CT10016-A
SBA Site ID: Montville 3 CT

AT&T Site Name: MONTVILLE SE MOXLEY HILL RD

AT&T Site ID: CT5236
Application ID: 215058, v2

GPD Project Number: 2024778.10016.04

Analysis Results

Tower Components	66.9%	Sufficient
Foundation	70.9%	Sufficient

AT&T Mount Replacement/Reinforcement

Net Change in Tower Stress Ratio due to Mount Replacement/Reinforcement	N/A
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February 2, 2024

Respectfully submitted by:



Christopher J. Scheks, P.E.
No. 30026
LICENCED ENGINEER
PROFESSIONAL



2/2/2024
Christopher J. Scheks, P.E.
Connecticut P.E. #: 0030026

Analysis Criteria

The purpose of this analysis is to verify the existing modified guyed tower is structurally capable of carrying the proposed antenna and feedline loads as specified by AT&T to SBA. This report was commissioned by Sheba Samuel of SBA.

The existing modified structure and its foundations have been analyzed per the following requirements:

Governing Code(s)	TIA-222-H & 2022 Connecticut State Building Code
Wind Speed	126 MPH 3-Second Gust
Wind Speed w/ Ice	50 MPH 3-Second Gust
Radial Ice Thickness	1.00"
Risk Category	II
Exposure Category	B
Topographic Category	1

Analysis Method

tnxTower (Version 8.2.2.0), a commercially available software program, was used to create a three-dimensional model of the tower and calculate member stresses for various dead, live, wind and ice load cases. Selected output from the analysis is included in the appendices of this report.

Tower Description

The existing 190' modified self-support tower is located in Uncasville, CT. The tower was originally designed for SBA Network Services, Inc. by ROHN in April 1998. The tower was originally designed in accordance with TIA-222-F for a 90-mph 3-second gust wind speed with 1/2" of radial ice (w/ a 25% wind load reduction) in accordance with EIA/TIA-222-F.

Documents Provided

Document Type	Remarks	Source
Original Tower & Foundation Drawings	ROHN Eng. File #: 37183AE001 Dated: 4/21/1998	SBA
Geotechnical Report	FDH Project #: 1102193EG1 Dated: 8/10/2011	SBA
Modification Drawings	FDH: Project #: 1465RU1400 Dated, 5/29/2014	SBA
Modification Drawings	FDH: Project #: 15BJIT1400 Dated 4/22/2015	SBA
AT&T Mount Analysis	TEP Project #: 323466.754398 Rev.2 Dated: 5/8/2023	SBA
Verizon Mount Analysis	Colliers Project #: 21777086 Rev 2 Dated 11/27/2023	SBA
Previous Structural Analysis	GPD Project #: 2024778.10016.03 Dated: 12/20/2023	SBA
Collocation Application	SBA Application #: 215058, v2 Dated: 5/18/2023	SBA

Tower Modification Summary

Modification Type	Description	Designer
Diagonals	Replace existing pipe diagonals from 87.6' to 90' with L2x2x1/4 members.	FDH (5/29/2014)
Legs	Bolt on split P3 STD members to existing legs from 130' to 150'	FDH (5/29/2014)
Legs	Bolt on split P3 STD members to existing legs from 110' to 130'	FDH (4/22/2015)

Tower Materials

Structural Components	Material Strength
Legs	ASTM A572 (50 KSI Yield Strength)
Bracing Members	ASTM A500-42 (42 KSI Yield Strength)
Member Bolts	A325X
Guy Wires	EHS

Tower Loading

The following data shows the major loading that the modified tower supports. All existing, leased, and proposed loading information was provided by SBA, or taken from the previous structural analysis.

Existing/Leased Loading

Carrier	Mounting Level (ft)	Center Line Elevation (ft)	# of Antennas	Antenna Manufacturer	Antenna/Mount Model	# of Coax	Coax Size (in)	Note
Dish Wireless	180.0	180.0	3	Commscope	FFVV-65B-R2	1	1-3/4 Hybrid	
			3	Samsung	RF4450t-71A			
			3	Samsung	RF4451d-70A			
			1	Raycap	RDIDC-9181-PF-48			
			3	Commscope	MTC3975083 Sector Mount			
Sprint Nextel	160.0	160.0	3	RFS	APXVSPP18-C-A20	4	1-1/4 Hybrid	
			3	RFS	APXVTM14-C-I20			
			4	RFS	ACU-A20-N RET			
			3	Alcatel Lucent	1900 MHz RRH			
			3	Alcatel Lucent	800 MHz RRH			
			3	Alcatel Lucent	TD-RRH8x20-25			
			3	Alcatel Lucent	800 MHz Filter			
			3		Sector Mount			
T-Mobile	150.0	150.0	3	Andrew	RR65-18-VDPL2	10 3	1-5/8 1-5/8 Hybrid	
			3	RFS	APXVAARR24 43-U-NA20			
			3	Ericsson	Air32 KRD901146-1_B66A_B2A			
			6	Ericsson	KRY 112 144/1			
			3	Ericsson	4449 B71+B12			
			3	Unknown	Sector Mount			
Verizon	139.5	141.0	3	Antel	BXA-70063-6CF-EDIN-6	7 2	1-5/8 1-5/8 Hybrid	
			6	RFS	FD9R6004/2CL-3CL			
			6	JMA	MX06FRO660-03			
			3	Samsung	MT6413 77A			
			3	Samsung	B2/B66A RRH ORAN (RF4439d-25A)			
			3	Samsung	B5/B13 RRH ORAN (RF4461d-13A)			
		140.0	1	Raycap	RVZDC-6627-PF-48			
			3	JMA	91900314			
			3		Sector Mount			
			1	CCI	HPA-65R-BUU-H6			
AT&T	130.0	130.0	1	CCI	DMPR65R-BU8DA	12 2 4	1-1/4 1/2 Fiber 3/4 DC	
			1	CCI	DMPR65R-BU4DA			
			1	CCI	DMPR65R-BU6DA			
			1	Andrew	SBNHH-1D65A			
			3	CCI	7770			
			6	Powerwave	LGP21401			
			3	Ericsson	4449 B5/B12			
			3	Ericsson	8843 B2/B66A			
			2	Raycap	DC6-48-60-18-8F			
			6	Kathrein	800-10025			
			3		Sector Mount			
			1		GPS			
			1		Standoff			
Verizon	76.0	76.0				1	1/2	

Final Proposed Loading Configuration

Carrier	Mounting Level (ft)	Center Line Elevation (ft)	# of Antennas	Antenna Manufacturer	Antenna/Mount Model	# of Coax	Coax Size (in)	Note
AT&T	130.0	132.0	3	Ericsson	Air 6419 B77G	12 2 4	1-1/4 1/2 Fiber 3/4 DC	1
			1	CCI	TPA65R-BU8DA-K			
			1	CCI	DMP65R-BU8DA			
			1	CCI	TPA65R-BU6DA-K			
			1	CCI	OPA65R-BU8DA			
			1	CCI	TPA65R-BU4D			
			1	CCI	OPA65R-BU4DA			
			3	Ericsson	4449 B5/B12			
			3	Ericsson	8843 B2/B66A			
			1	Raycap	DC6-48-60-18-8F			
			1	Raycap	DC9-48-60-24-8C-EV			
		128.0	3	Ericsson	Sector Mount			
		3	Ericsson	Air 6449 B77D				

Notes:

1) This loading represents AT&T's final configuration on the tower. See the next page for the proposed feedline layout.