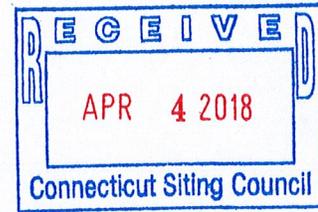




em-sprmt-047-180319

April 4th, 2018

Melanie Bachman, Executive Director
Connecticut Siting Council
10 Franklin Square
New Britain, CT 06051



RE: Notice of Exempt Modification – Antenna Swap for wireless facility located at 160 Plantation Road, East Windsor, CONNECTICUT - CT03XC202 (lat. 41° 52' 32.29" N, long. - 72° 33' 53.27" W)

ORIGINAL

Dear Ms. Bachman:

This letter and accompanying documentation are in response to a letter from you dated March 29, 2018. Per your recommendation, included with this letter are 3 copies of the Mount Analysis Report dated March 1, 2018.

If you have any questions or require any additional information regarding this request, please do not hesitate to give me a call at (518) 350-4222 or email me to aperkowski@airosmithdevelopment.com

Kind Regards,

Arthur Perkowski
Airosmith Development Inc.
32 Clinton Street
Saratoga Springs, NY 12866
518-306-1711 desk & fax
518-871-3707 cell
aperkowski@airosmithdevelopment.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

Arthur Perkowski
Airosmith Development, Inc.
32 Clinton Street
Saratoga Springs, NY 12866

RE: **EM-SPRINT-047-180319** - Sprint notice of intent to modify an existing telecommunications facility located at 50 Plantation Road, East Windsor, Connecticut.

Dear Mr. Perkowski:

The Connecticut Siting Council (Council) received a notice of intent to modify the above-referenced facility on March 19, 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 on the site plan sheet number A-2 dated March 5, 2018 which references a "Mount Analysis Report dated March 1, 2018." "According to the results of review, the antenna and RRH supports will be adequate to support the proposed loading with the following modification." Neither the Structural Analysis Report nor the site plans reference any modification.

Therefore, the exempt modification request is incomplete at this time. The Council recommends that Airosmith Development provide the Mount Analysis Report dated March 1, 2018 including the modification on or before April 30, 2018. If additional time is needed to gather the requested information, please submit a written request for an extension of time prior to April 30, 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 Robert Maynard, First Selectman, Town of East Windsor
Laurie P. Whitten, CZEO, AICP, Town Planner, Town of East Windsor
Plantation Properties LLC, property owner
Justine Paul, American Tower Corporation



CONNECTICUT SITING COUNCIL
Affirmative Action / Equal Opportunity Employer

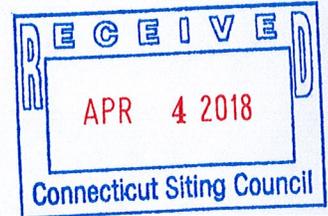
INFINIGY

FROM ZERO TO INFINIGY
the solutions are endless

1033 WATERLIET SHAKER RD, ALBANY, NY 12205

Mount Analysis Report

March 1, 2018



Cascade Name	CT03XC202
Site Name	Rasmussen Water Tank
Infinigy Job Number	526-104
Client	Airosmith
Carrier	Sprint
Site Location	160 Plantation Road East Windsor, CT 06016 41° 525' 32.29" N NAD83 72° 33' 53.27" W NAD83
Mount Centerline EL.	126.0 ft
Mount Classification	Mount Pipe
Usage	18.0%

Upon reviewing the results of this analysis, it is our opinion that the existing structure meets the specified TIA code requirements. The existing mounts are therefore deemed adequate to support the final loading configuration as listed in this report.



Brenden Archer
Structural Engineer I



INFINIGY

Mount Analysis Report

March 1, 2018

Contents

Introduction.....	3
Supporting Documentation.....	3
Analysis Code Requirements.....	3
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Structure Usages.....	4
Assumptions and Limitations.....	4
Calculations.....	Appended

March 1, 2018

Introduction

Infinigy Engineering has been requested to perform a mount analysis on the existing Sprint mounts. All supporting documents have been obtained from the client and are assumed to be accurate and applicable to this site. The mount was analyzed using RISA-3D Version 16.0.1 analysis software.

Supporting Documentation

RFDS	Sprint ID #45750, dated November 4, 2017
Construction Drawings	Infinigy Job #526-104, dated November 9, 2017

Analysis Code Requirements

Wind Speed	95 mph (3-Second Gust, V_{ASD}) / 123 mph (3-Second Gust, V_{ULT})
Wind Speed w/ ice	50 mph (3-Second Gust, V_{ASD}) w/ 1" ice
TIA Revision	ANSI/TIA-222-G
Adopted IBC	2012 IBC / 2016 Connecticut State Building Code
Structure Class	III
Exposure Category	C
Topographic Category	1
Calculated Crest Height	0 ft

Conclusion

Upon reviewing the results of this analysis, it is our opinion that the existing structure meets the specified TIA code requirements. The existing mounts are therefore deemed adequate to support the final loading configuration as listed in this report.

If you have any questions, require additional information, or actual conditions differ from those as detailed in this report please contact me via the information below:

Brenden Archer
 Structural Engineer I | Infinigy
 1033 Watervliet Shaker Road, Albany, NY 12205
 (O) (518) 690-0790
barcher@infinigy.com | www.infinigy.com

DO Macro Final Configuration

Mount CL (ft)	Rad. HT (ft)	Vert. O/S (ft)	Horiz. O/S (ft) ⁽¹⁾	Qty	Appurtenance	Carrier
126.0	126.0	0.0	0.0	3	RFS APXVTM14-C-120	Sprint
			0.0	3	RFS APXV9ERR18-C-A20	
			0.0	3	Alcatel Lucent 1900 MHz	
			0.0	3	Alcatel Lucent 800 MHz	
			0.0	3	Alcatel Lucent TD-RRH8x20-25	

(1)Horizontal Offset is defined as the distance from the left most edge of the mount face horizontal when viewed facing the tower.

Structure Usages

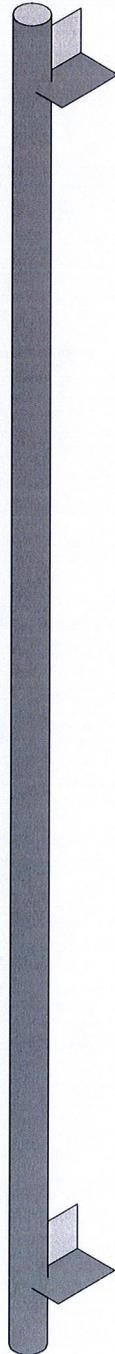
Existing	18.0%	Pass
Results	18.0%	Pass

Assumptions and Limitations

Our structural calculations are completed assuming all information provided to Infinigy Engineering is accurate and applicable to this site. For the purposes of calculations, we assume an overall structure condition of “like new” and all members and connections to be free of corrosion and/or structural defects. The structure owner and/or contractor shall verify the structure’s condition prior to installation of any proposed equipment. If actual conditions differ from those described in this report Infinigy Engineering should be notified immediately to complete a revised evaluation.

Our evaluation is completed using standard TIA, AISC, ACI, and ASCE methods and procedures. Our structural results are proprietary and should not be used by others as their own. Infinigy Engineering is not responsible for decisions made by others that are or are not based on our supplied assumptions and conclusions.

This report is an evaluation of the proposed carriers mount structure only and does not reflect adequacy of the existing tower, other mounts, or coax mounting attachments. These elements are assumed to be adequate for the purposes of this analysis and are assumed to have been installed per their manufacturer requirements.



Envelope Only Solution

Infinigy Engineering, PLLC
BDA
526-104

CT03XC202

Existing Configuration
Feb 1, 2018 at 7:50 PM
untitled.r3d

Member Primary Data

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
1	MP1	N1	N2			Mount Pipe	Beam	None	A53 Gr.B	Typical
2	M2	N4	N6			Angle	Beam	None	A36 Gr.36	Typical
3	M3	N3	N5			Angle	Beam	None	A36 Gr.36	Typical

Material Takeoff

	Material	Size	Pieces	Length[in]	Weight[K]
1	Hot Rolled Steel				
2	A36 Gr.36	L4x4x4	2	12	0
3	A53 Gr.B	PIPE 2.5	1	120	0
4	Total HR Steel		3	132	0

Basic Load Cases

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed Area(Me...	Surface(...
1	Self Weight	DL		-1			3		
2	Wind Load AZI 000	WLZ					3	1	
3	Wind Load AZI 090	WLX					3	1	
4	Ice Weight	OL1					3	3	
5	Wind + Ice Load AZI 000	OL2					3	1	
6	Wind + Ice Load AZI 090	OL3					3	1	
7	Service Live 1	LL							
8	Seismic Load AZI 000	ELZ							
9	Seismic Load AZI 090	ELX							
10	BLC 2 Transient Area Loads	None						1	
11	BLC 3 Transient Area Loads	None						3	
12	BLC 5 Transient Area Loads	None						1	
13	BLC 6 Transient Area Loads	None						3	

Load Combinations

	Description	S...P...	S...B...Fa...	BLC Fac...	BLCFa...	B...F...	B...F...	B...F...	B...F...	B...F...	B...F...	B...F...	B...F...
1	1.4D	Y... Y	DL 1.4										
2	1.2D + 1.6W AZI 000	Y... Y	DL 1.2	WLZ 1.6									
3	1.2D + 1.6W AZI 030	Y... Y	DL 1.2	WLZ 1.3...	W... .8								
4	1.2D + 1.6W AZI 060	Y... Y	DL 1.2	WLZ .8	W... 1.3...								
5	1.2D + 1.6W AZI 090	Y... Y	DL 1.2		W... 1.6								
6	1.2D + 1.6W AZI 120	Y... Y	DL 1.2	WLZ -.8	W... 1.3...								
7	1.2D + 1.6W AZI 150	Y... Y	DL 1.2	WLZ -1.3...	W... .8								
8	1.2D + 1.6W AZI 180	Y... Y	DL 1.2	WLZ -1.6									
9	1.2D + 1.6W AZI 210	Y... Y	DL 1.2	WLZ -1.3...	W... -.8								
10	1.2D + 1.6W AZI 240	Y... Y	DL 1.2	WLZ -.8	W... -1....								
11	1.2D + 1.6W AZI 270	Y... Y	DL 1.2		W... -1.6								
12	1.2D + 1.6W AZI 300	Y... Y	DL 1.2	WLZ .8	W... -1....								
13	1.2D + 1.6W AZI 330	Y... Y	DL 1.2	WLZ 1.3...	W... -.8								
14	0.9D + 1.6W AZI 000	Y... Y	DL .9	WLZ 1.6									
15	0.9D + 1.6W AZI 030	Y... Y	DL .9	WLZ 1.3...	W... .8								
16	0.9D + 1.6W AZI 060	Y... Y	DL .9	WLZ .8	W... 1.3...								
17	0.9D + 1.6W AZI 090	Y... Y	DL .9		W... 1.6								
18	0.9D + 1.6W AZI 120	Y... Y	DL .9	WLZ -.8	W... 1.3...								
19	0.9D + 1.6W AZI 150	Y... Y	DL .9	WLZ -1.3...	W... .8								
20	0.9D + 1.6W AZI 180	Y... Y	DL .9	WLZ -1.6									
21	0.9D + 1.6W AZI 210	Y... Y	DL .9	WLZ -1.3...	W... -.8								
22	0.9D + 1.6W AZI 240	Y... Y	DL .9	WLZ -.8	W... -1....								

Load Combinations (Continued)

Description	S...	P...	S...	B...	Fa...	BLC	Fac...	BLC	Fa...	B...	F...	B...	F...	B...	F...	B...	F...	B...	F...
23	0.9D + 1.6W AZI 270	Y..	Y	DL	.9			W...	-1.6										
24	0.9D + 1.6W AZI 300	Y..	Y	DL	.9	WLZ	.8	W...	-1...										
25	0.9D + 1.6W AZI 330	Y..	Y	DL	.9	WLZ	1.3...	W...	-.8										
26	1.2D + 1.0Di	Y..	Y	DL	1.2	OL1	1												
27	1.2D + 1.0Di + 1.0Wi AZI 000	Y..	Y	DL	1.2	OL1	1	OL2	1										
28	1.2D + 1.0Di + 1.0Wi AZI 030	Y..	Y	DL	1.2	OL1	1	OL2	.866...	.5									
29	1.2D + 1.0Di + 1.0Wi AZI 060	Y..	Y	DL	1.2	OL1	1	OL2	.5	...	.8...								
30	1.2D + 1.0Di + 1.0Wi AZI 090	Y..	Y	DL	1.2	OL1	1			...	1								
31	1.2D + 1.0Di + 1.0Wi AZI 120	Y..	Y	DL	1.2	OL1	1	OL2	-.5	...	.8...								
32	1.2D + 1.0Di + 1.0Wi AZI 150	Y..	Y	DL	1.2	OL1	1	OL2	-.866...	.5									
33	1.2D + 1.0Di + 1.0Wi AZI 180	Y..	Y	DL	1.2	OL1	1	OL2	-.1										
34	1.2D + 1.0Di + 1.0Wi AZI 210	Y..	Y	DL	1.2	OL1	1	OL2	-.866...	-.5									
35	1.2D + 1.0Di + 1.0Wi AZI 240	Y..	Y	DL	1.2	OL1	1	OL2	-.5	...	----								
36	1.2D + 1.0Di + 1.0Wi AZI 270	Y..	Y	DL	1.2	OL1	1			...	-1								
37	1.2D + 1.0Di + 1.0Wi AZI 300	Y..	Y	DL	1.2	OL1	1	OL2	.5	...	----								
38	1.2D + 1.0Di + 1.0Wi AZI 330	Y..	Y	DL	1.2	OL1	1	OL2	.866...	-.5									
39	1.2D + 1.5L + 1.0WL (30 mph) AZI 000	Y..	Y	DL	1.2	LL	1.5	WLZ	.099										
40	1.2D + 1.5L + 1.0WL (30 mph) AZI 030	Y..	Y	DL	1.2	LL	1.5	WLZ	.086...	.05									
41	1.2D + 1.5L + 1.0WL (30 mph) AZI 060	Y..	Y	DL	1.2	LL	1.5	WLZ	.05	...	.0...								
42	1.2D + 1.5L + 1.0WL (30 mph) AZI 090	Y..	Y	DL	1.2	LL	1.5			...	.0...								
43	1.2D + 1.5L + 1.0WL (30 mph) AZI 120	Y..	Y	DL	1.2	LL	1.5	WLZ	-.05	...	.0...								
44	1.2D + 1.5L + 1.0WL (30 mph) AZI 150	Y..	Y	DL	1.2	LL	1.5	WLZ	-.086...	.05									
45	1.2D + 1.5L + 1.0WL (30 mph) AZI 180	Y..	Y	DL	1.2	LL	1.5	WLZ	-.099										
46	1.2D + 1.5L + 1.0WL (30 mph) AZI 210	Y..	Y	DL	1.2	LL	1.5	WLZ	-.086...	-.05									
47	1.2D + 1.5L + 1.0WL (30 mph) AZI 240	Y..	Y	DL	1.2	LL	1.5	WLZ	-.05	...	----								
48	1.2D + 1.5L + 1.0WL (30 mph) AZI 270	Y..	Y	DL	1.2	LL	1.5			...	----								
49	1.2D + 1.5L + 1.0WL (30 mph) AZI 300	Y..	Y	DL	1.2	LL	1.5	WLZ	.05	...	----								
50	1.2D + 1.5L + 1.0WL (30 mph) AZI 330	Y..	Y	DL	1.2	LL	1.5	WLZ	.086...	-.05									

Envelope Joint Reactions

Joint		X [lb]	LC	Y [lb]	LC	Z [lb]	LC	MX [k-ft]	LC	MY [k-ft]	LC	MZ [k-ft]	LC	
1	N6	max	237.194	17	709.994	8	341.856	14	.063	20	.116	5	.032	5
2		min	-237.194	23	-510.161	14	-344.105	8	-.223	27	-.116	23	-.032	23
3	N5	max	204.367	5	715.664	2	356.164	2	.186	14	.1	17	.034	11
4		min	-204.367	11	-505.887	20	-353.916	20	-.279	8	-.1	11	-.034	17
5	Totals:	max	441.561	5	883.495	33	697.699	2						
6		min	-441.561	11	175.547	19	-697.699	8						

Envelope AISC 14th(360-10): LRFD Steel Code Checks

Member	Shape	Code Check	Loc[in]	LC	Shear Ch...	Loc[in]	Dir	LC	phi*Pnc [lb]	phi*Pn...	phi*M...	phi*M...	Eqn
1	M3	L4x4x4	.180	0	2	.111	6	z	56841.531	62532	3.138	6.715	H2-1
2	MP1	PIPE_2.5	.162	6.25	2	.027	6.25		22373.407	50715	3.596	3.596	H1-1b
3	M2	L4x4x4	.138	0	8	.107	6	z	56841.531	62532	3.138	6.715	H2-1