



# 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)

[www.ct.gov/csc](http://www.ct.gov/csc)

VIA ELECTRONIC MAIL

April 16, 2018

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

RE: **EM-SPRINT-074-180327** - Sprint notice of intent to modify an existing telecommunications facility located at 36 Mohawk Mountain Road, Cornwall, Connecticut.

Dear Mr. Perkowski:

The Connecticut Siting Council (Council) is in receipt of your correspondence of April 11, 2018 submitted in response to the Council's April 10, 2018 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 A. Bachman  
Executive Director

MB/FOC/cg

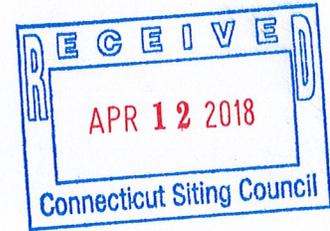




file  
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led

April 11<sup>th</sup>, 2018

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



**RE: Notice of Incomplete Exempt Modification – EM-SPRINT-074-180327 (36 Mohawk Mountain Road, Cornwall, CT) and EM-SPRINT-119-180329 (47 Inwood Road, Rocky Hill, CT)**

Dear Ms. Bachman:

Along with this letter please find three copies of the Mount Analysis for both of the following Connecticut Siting Council filing sites: EM-SPRINT-074-180327 (36 Mohawk Mountain Road, Cornwall, CT) and EM-SPRINT-119 -180329 (47 Inwood Road, Rocky Hill, CT).

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](mailto: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](mailto:aperkowski@airosmithdevelopment.com)





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

RE: **EM-SPRINT-074-180327** - Sprint notice of intent to modify an existing telecommunications facility located at 36 Mohawk Mountain Road, Cornwall, Connecticut.

Dear Mr. Perkowski:

The Connecticut Siting Council (Council) received a notice of intent to modify the above-referenced facility on March 27, 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. The site plan sheet number T-1 project description references "These plans are not for construction unless accompanied by a passing structural stability analysis prepared by a licensed structural engineer. Structural analysis must include both tower and mount." There is no mount structural stability analysis provided with the exempt modification filing; therefore, it is unclear whether additional reinforcements would be required for the antenna mount, which would alter the proposed loading on the structure and require an updated structural analysis report.

Therefore, the exempt modification request is incomplete at this time. The Council recommends that Airosmith Development provide a mount structural analysis that is stamped and signed by a professional engineer duly licensed in the State of Connecticut, and if applicable, an updated Structural Analysis Report accounting for any required antenna mount modifications on or before May 8, 2018. If additional time is needed to gather the requested information, please submit a written request for an extension of time prior to May 8, 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 Gordon M. Ridgway, First Selectman, Town of Cornwall  
Karen Nelson, Land Use Administrator, Town of Cornwall  
State of Connecticut, property owner  
Justine Paul, American Tower Corporation



CONNECTICUT SITING COUNCIL  
Affirmative Action / Equal Opportunity Employer

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1033 WATERVLIET SHAKER RD, ALBANY, NY 12205

January 22, 2018

**Terri Burkholder**

Project Manager

Airosmith Development

[tburkholder@asdwireless.com](mailto:tburkholder@asdwireless.com)

[www.airosmithdevelopment.com](http://www.airosmithdevelopment.com)

**RE: Sprint DO Macro Project Mount Analysis**

Sprint Site Number:	CT72XC030
Sprint Site Name:	CT0046 ~ Ring to Existing – (R2E) PH 1A
Site Address:	36 Toomey Road, Cornwall, CT 06759
Building Code:	2012 IBC / 2016 Connecticut State Building Code
Design Standard:	ANSI/TIA-222-G
Result:	<b>Pass</b>
Usage:	<b>19.2%</b>
Note:	--

Dear Ms. Burkholder:

At your request, Infinigy Engineering, PLLC has reviewed the existing Sprint tower mounted equipment supports at the above referenced site for adequacy to support the existing and proposed loads for the referenced project. This evaluation is based on a review of the information from the Structural Analysis (dated 10/30/17) provided by American Tower Corporation, Colo Application (dated 10/05/17) provided by Sprint Nextel and Construction Drawings (dated 12/28/17) provided by Infinigy Engineering, PLLC.

This evaluation assumes that all structural members are in good condition, have not been altered from the manufacturer's original design, and have been installed per the manufacturer's requirements. Prior to installation of any new appurtenances, the contractor shall inspect the condition of all relevant members and connections and shall tighten all connections. The contractor is responsible for the means and methods of construction and shall notify Infinigy Engineering, PLLC immediately if any field conditions differ from those listed above.

Should there be any questions, please do not hesitate to contact us at (518) 690-0790.

Sincerely,

Joseph R. Johnston, P.E.

VP Structural Engineering/Principal

[structural@infinigy.com](mailto:structural@infinigy.com)

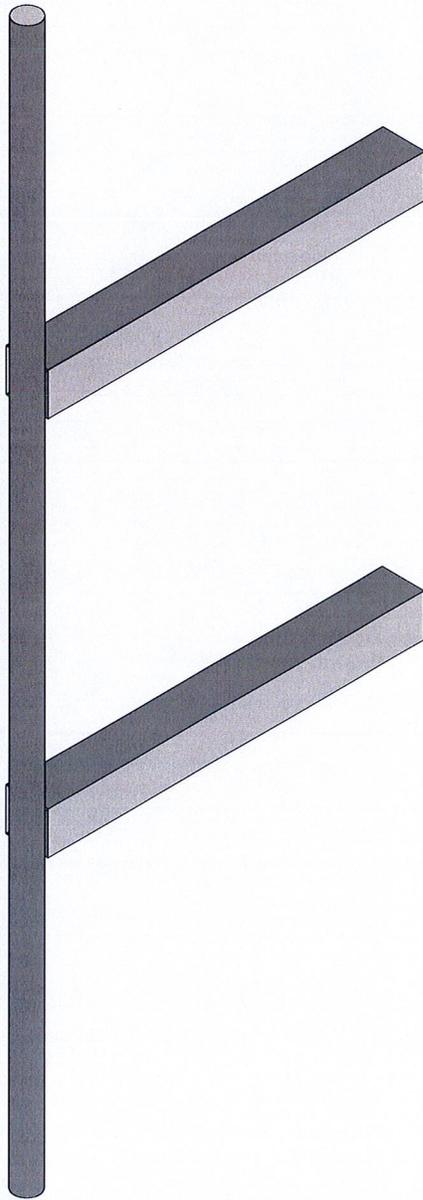
Connecticut P.E. License Number: PEN.0029460

KC/BDA



AZ CA CO FL GA IL MD NC NH NJ NY WA

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Infinigy Engineering PLLC	CT72XC030	Proposed Configuration
BA		Jan 22, 2018 at 2:50 PM
526-104		CT72XC030_Spec'd.r3d



## Member Primary Data

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
1	M1	N5	N4			HSS4x4x3	Beam	Tube	A53 Gr.B	Typical
2	M2	N1	N3			HSS4x4x3	Beam	Tube	A53 Gr.B	Typical
3	M3	N8	N2			Pipe STD 2	VBrace	Pipe	A53 Gr.B	Typical

## Material Takeoff

	Material	Size	Pieces	Length[in]	Weight[K]
1	Hot Rolled Steel				
2	A53 Gr.B	HSS4x4x3	2	72	0
3	A53 Gr.B	PIPE 2.0	1	96	0
4	Total HR Steel		3	168	0

## Basic Load Cases

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

## Load Combinations

	Description	So...P...	S...	BLC Fact..										
1	1.4D	Yes	Y	DL	1.4									
2	1.2D + 1.6W A...	Yes	Y	DL	1.2	W...	1.6							
3	1.2D + 1.6W A...	Yes	Y	DL	1.2	W...	1.386	W...	.8					
4	1.2D + 1.6W A...	Yes	Y	DL	1.2	W...	.8	W...	1.386					
5	1.2D + 1.6W A...	Yes	Y	DL	1.2			W...	1.6					
6	1.2D + 1.6W A...	Yes	Y	DL	1.2	W...	-.8	W...	1.386					
7	1.2D + 1.6W A...	Yes	Y	DL	1.2	W...	-1.3...	W...	.8					
8	1.2D + 1.6W A...	Yes	Y	DL	1.2	W...	-1.6							
9	1.2D + 1.6W A...	Yes	Y	DL	1.2	W...	-1.3...	W...	-.8					
10	1.2D + 1.6W A...	Yes	Y	DL	1.2	W...	-.8	W...	-1.3...					
11	1.2D + 1.6W A...	Yes	Y	DL	1.2			W...	-1.6					
12	1.2D + 1.6W A...	Yes	Y	DL	1.2	W...	.8	W...	-1.3...					
13	1.2D + 1.6W A...	Yes	Y	DL	1.2	W...	1.386	W...	-.8					
14	0.9D + 1.6W A...	Yes	Y	DL	.9	W...	1.6							
15	0.9D + 1.6W A...	Yes	Y	DL	.9	W...	1.386	W...	.8					
16	0.9D + 1.6W A...	Yes	Y	DL	.9	W...	.8	W...	1.386					
17	0.9D + 1.6W A...	Yes	Y	DL	.9			W...	1.6					
18	0.9D + 1.6W A...	Yes	Y	DL	.9	W...	-.8	W...	1.386					
19	0.9D + 1.6W A...	Yes	Y	DL	.9	W...	-1.3...	W...	.8					
20	0.9D + 1.6W A...	Yes	Y	DL	.9	W...	-1.6							
21	0.9D + 1.6W A...	Yes	Y	DL	.9	W...	-1.3...	W...	-.8					
22	0.9D + 1.6W A...	Yes	Y	DL	.9	W...	-.8	W...	-1.3...					

## Load Combinations (Continued)

	Description	So...	P...	S...	BLC Fact..										
23	0.9D + 1.6WA...	Yes	Y		DL	.9		W...	-1.6						
24	0.9D + 1.6WA...	Yes	Y		DL	.9	W...	.8	W...	-1.3...					
25	0.9D + 1.6WA...	Yes	Y		DL	.9	W...	1.386	W...	-.8					
26	1.2D + 1.0Di	Yes	Y		DL	1.2	OL1	1							
27	1.2D + 1.0Di + ...	Yes	Y		DL	1.2	OL1	1	OL2	1					
28	1.2D + 1.0Di + ...	Yes	Y		DL	1.2	OL1	1	OL2	.866	OL3	.5			
29	1.2D + 1.0Di + ...	Yes	Y		DL	1.2	OL1	1	OL2	.5	OL3	.866			
30	1.2D + 1.0Di + ...	Yes	Y		DL	1.2	OL1	1			OL3	1			
31	1.2D + 1.0Di + ...	Yes	Y		DL	1.2	OL1	1	OL2	-.5	OL3	.866			
32	1.2D + 1.0Di + ...	Yes	Y		DL	1.2	OL1	1	OL2	-.866	OL3	.5			
33	1.2D + 1.0Di + ...	Yes	Y		DL	1.2	OL1	1	OL2	-.1					
34	1.2D + 1.0Di + ...	Yes	Y		DL	1.2	OL1	1	OL2	-.866	OL3	-.5			
35	1.2D + 1.0Di + ...	Yes	Y		DL	1.2	OL1	1	OL2	-.5	OL3	-.866			
36	1.2D + 1.0Di + ...	Yes	Y		DL	1.2	OL1	1			OL3	-.1			
37	1.2D + 1.0Di + ...	Yes	Y		DL	1.2	OL1	1	OL2	.5	OL3	-.866			
38	1.2D + 1.0Di + ...	Yes	Y		DL	1.2	OL1	1	OL2	.866	OL3	-.5			
39	1.2D + 1.5L + ...	Yes	Y		DL	1.2	LL	1.5	W...	.125					
40	1.2D + 1.5L + ...	Yes	Y		DL	1.2	LL	1.5	W...	.108	W...	.062			
41	1.2D + 1.5L + ...	Yes	Y		DL	1.2	LL	1.5	W...	.062	W...	.108			
42	1.2D + 1.5L + ...	Yes	Y		DL	1.2	LL	1.5			W...	.125			
43	1.2D + 1.5L + ...	Yes	Y		DL	1.2	LL	1.5	W...	-.062	W...	.108			
44	1.2D + 1.5L + ...	Yes	Y		DL	1.2	LL	1.5	W...	-.108	W...	.062			
45	1.2D + 1.5L + ...	Yes	Y		DL	1.2	LL	1.5	W...	-.125					
46	1.2D + 1.5L + ...	Yes	Y		DL	1.2	LL	1.5	W...	-.108	W...	-.062			
47	1.2D + 1.5L + ...	Yes	Y		DL	1.2	LL	1.5	W...	-.062	W...	-.108			
48	1.2D + 1.5L + ...	Yes	Y		DL	1.2	LL	1.5			W...	-.125			
49	1.2D + 1.5L + ...	Yes	Y		DL	1.2	LL	1.5	W...	.062	W...	-.108			
50	1.2D + 1.5L + ...	Yes	Y		DL	1.2	LL	1.5	W...	.108	W...	-.062			

## Envelope Joint Reactions

Joint		X [lb]	LC	Y [lb]	LC	Z [lb]	LC	MX [lb-ft]	LC	MY [lb-ft]	LC	MZ [lb-ft]	LC	
1	N3	max	205.508	17	444.286	33	287.629	2	-137.884	14	489.107	17	171.539	17
2		min	-205.508	23	-31.483	14	-195.684	20	-965.423	33	-489.107	23	-171.539	23
3	N4	max	200.16	5	443.595	27	125.056	14	-117.4	20	474.246	5	166.706	11
4		min	-200.16	11	-31.683	20	-217.042	8	-966.449	27	-474.246	11	-166.706	5
5	Totals:	max	405.648	5	839.932	32	399.568	2						
6		min	-405.648	11	244.027	14	-399.568	8						

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

Member	Shape	Code Check	Loc[in]	LC	Shear...	Loc[in]	Dir	LC	phi*Pnc...	phi*Pnt...	phi*Mn...	phi*Mn...	Cb	Eqn
1	M3	PIPE 2.0	.192	30	20	.024	25		20	14916....	32130	1871.625	1871.625	1 H1-1b
2	M2	HSS4x4x3	.108	36	30	.030	36	z	17	79060....	81270	9633.75	9633.75	2... H1-1b
3	M1	HSS4x4x3	.107	36	29	.030	36	z	5	79060....	81270	9633.75	9633.75	2... H1-1b