

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

June 18, 2013

Kenneth C. Baldwin, Esq.
Robinson & Cole LLP
280 Trumbull Street
Hartford, CT 06103

RE: **EM-VER-041-130524** - Cellco Partnership d/b/a Verizon Wireless notice of intent to modify an existing telecommunications facility located at 135 Honey Hill Road, East Haddam, Connecticut.

Dear Attorney Baldwin:

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:

- Any deviation from the proposed modification as specified in this notice and supporting materials with the 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;
- Within 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 May 23, 2013. 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,

Melanie A. Bachman
Acting Executive Director

MAB/CDM/jb

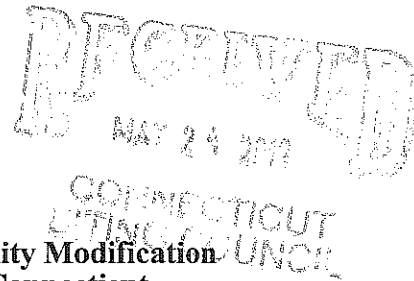
c: The Honorable Mark B. Walter, First Selectman, Town of East Haddam
Crary H. Brownell, Chm, Planning and Zoning Comm, Town of East Haddam
American Tower

280 Trumbull Street
 Hartford, CT 06103-3597
 Main (860) 275-8200
 Fax (860) 275-8299
 kbaldwin@rc.com
 Direct (860) 275-8345

Also admitted in Massachusetts

May 23, 2013

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



Re: **Notice of Exempt Modification – Facility Modification
 135 Honey Hill Road, East Haddam, Connecticut**

Dear Ms. Bachman:

Cellco Partnership d/b/a Verizon Wireless (“Cellco”) currently maintains twelve (12) antennas at the 130-foot level of the existing 150-foot tower at 135 Honey Hill Road in East Haddam. The tower is owned by American Tower Corporation. The Council approved Cellco’s shared use of this tower in 2005. Cellco now intends to replace three (3) of its existing antennas with three (3) model BXA-70063-6CF LTE antennas at the same height on the tower. Cellco also intends to install three (3) coaxial cables inside the tower. Attached behind Tab 1 are the specifications for the replacement antennas.

Please accept this letter as notification pursuant to R.C.S.A. § 16-50j-73, for construction that constitutes an exempt modification pursuant to R.C.S.A. § 16-50j-72(b)(2). In accordance with R.C.S.A. § 16-50j-73, a copy of this letter is being sent to Mark B. Walter, East Haddam’s First Selectman. A copy of the letter is also being sent to Donald and Susan Port, the owners of the property on which the tower is located.

The planned modifications to the facility fall squarely within those activities explicitly provided for in R.C.S.A. § 16-50j-72(b)(2).

1. The proposed modifications will not result in an increase in the height of the existing tower. Cellco’s replacement antennas will be located at the 130-foot level of the 150-foot tower.



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Melanie A. Bachman
May 23, 2013
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2. The proposed modifications will not involve any change to ground-mounted equipment and, therefore, will not require the extension of the site boundary.

3. The proposed modifications will not increase noise levels at the facility by six decibels or more, or to levels that exceed state and local criteria.

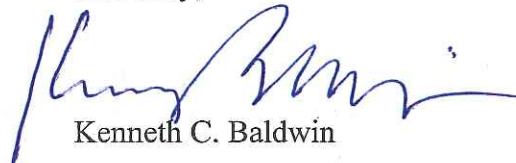
4. The operation of the replacement antennas will not increase radio frequency (RF) emissions at the facility to a level at or above the Federal Communications Commission (FCC) safety standard. A cumulative General Power Density table for Cellco's modified facility are included behind Tab 2.

5. The proposed modifications will not cause a change or alteration in the physical or environmental characteristics of the site.

6. The tower and its foundation can support Cellco's proposed antenna modifications. (See Structural Analysis Report attached behind Tab 3).

For the foregoing reasons, Cellco respectfully submits that the proposed modifications to the above-referenced telecommunications facility constitutes an exempt modification under R.C.S.A. § 16-50j-72(b)(2).

Sincerely,



Kenneth C. Baldwin

Enclosures

Copy to:

Mark B. Walter, East Haddam First Selectman
Donald and Susan Porter
Sandy M. Carter



BXA-70063-6CF-EDIN-X

X-Pol | FET Panel | 63° | 14.5 dBd

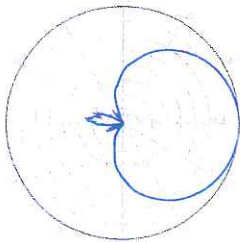
Replace "X" with desired electrical downtilt.

Antenna is also available with NE connector(s). Replace "EDIN" with "NE" in the model number when ordering.



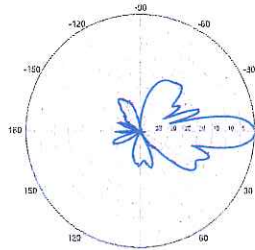
Electrical Characteristics		696-900 MHz		
Frequency bands	696-806 MHz	806-900 MHz		
Polarization	±45°			
Horizontal beamwidth	65°	63°		
Vertical beamwidth	13°	11°		
Gain	14.0 dBd (16.1 dBi)	14.5 dBd (16.6 dBi)		
Electrical downtilt (X)	0, 2, 3, 4, 5, 6, 8, 10			
Impedance	50Ω			
VSWR	≤1.35:1			
Upper sidelobe suppression (0°)	-18.3 dB	-18.2 dB		
Front-to-back ratio (+/-30°)	-33.4 dB	-36.3 dB		
Null fill	5% (-26.02 dB)			
Isolation between ports	< -25 dB			
Input power with EDIN connectors	500 W			
Input power with NE connectors	300 W			
Lightning protection	Direct Ground			
Connector(s)	2 Ports / EDIN or NE / Female / Center (Back)			
Mechanical Characteristics				
Dimensions Length x Width x Depth	1804 x 285 x 132 mm	71.0 x 11.2 x 5.2 in		
Depth with z-brackets	172 mm	6.8 in		
Weight without mounting brackets	7.9 kg	17 lbs		
Survival wind speed	> 201 km/hr		> 125 mph	
Wind area	Front: 0.51 m ² Side: 0.24 m ²	Front: 5.5 ft ² Side: 2.6 ft ²		
Wind load @ 161 km/hr (100 mph)	Front: 759 N Side: 391 N	Front: 169 lbf Side: 89 lbf		
Mounting Options		Part Number	Fits Pipe Diameter	Weight
3-Point Mounting & Downtilt Bracket Kit		36210008	40-115 mm 1.57-4.5 in	6.9 kg 15.2 lbs
Concealment Configurations		For concealment configurations, order BXA-70063-6CF-EDIN-X-FP		

BXA-70063-6CF-EDIN-X



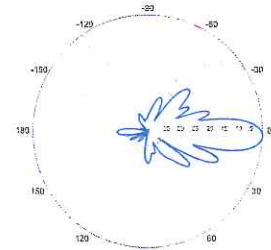
Horizontal | 750 MHz

BXA-70063-6CF-EDIN-0

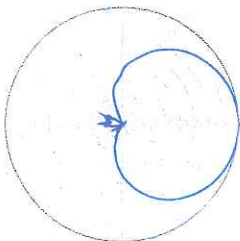


0° | Vertical | 750 MHz

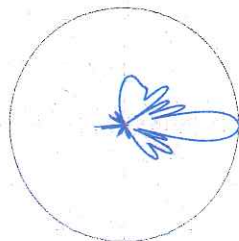
BXA-70063-6CF-EDIN-2



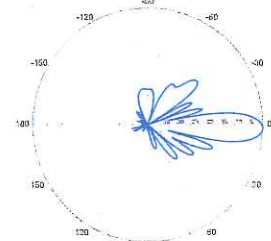
2° | Vertical | 750 MHz



Horizontal | 850 MHz



0° | Vertical | 850 MHz



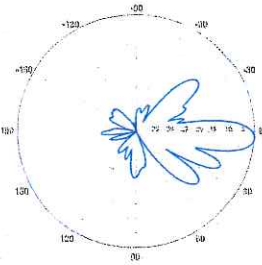
2° | Vertical | 850 MHz

Quoted performance parameters are provided to offer typical or range values only and may vary as a result of normal manufacturing and operational conditions. Extreme operational conditions and/or stress on structural supports is beyond our control. Such conditions may result in damage to this product. Improvements to product may be made without notice.

BXA-70063-6CF-EDIN-X

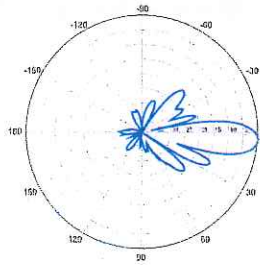
X-Pol | FET Panel | 63° | 14.5 dBd

BXA-70063-6CF-EDIN-3



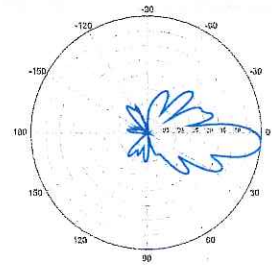
3° | Vertical | 750 MHz

BXA-70063-6CF-EDIN-4

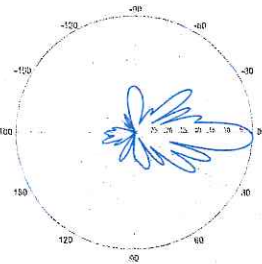


4° | Vertical | 750 MHz

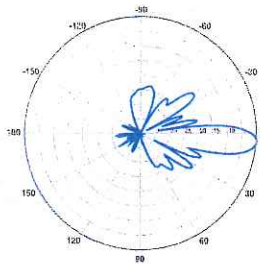
BXA-70063-6CF-EDIN-5



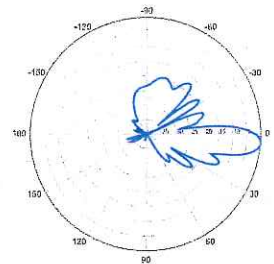
5° | Vertical | 750 MHz



3° | Vertical | 850 MHz

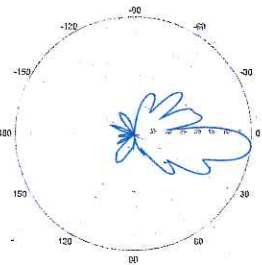


4° | Vertical | 850 MHz



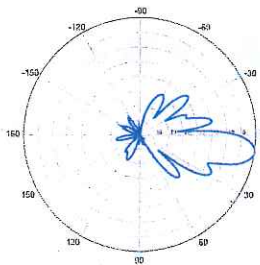
5° | Vertical | 850 MHz

BXA-70063-6CF-EDIN-6



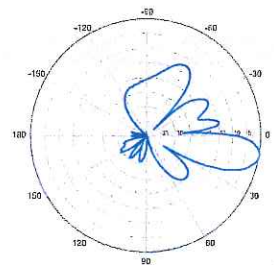
6° | Vertical | 750 MHz

BXA-70063-6CF-EDIN-8

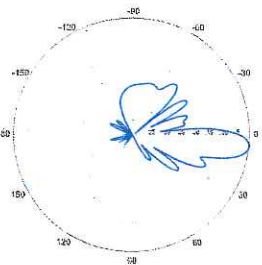


8° | Vertical | 750 MHz

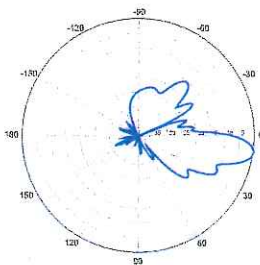
BXA-70063-6CF-EDIN-10



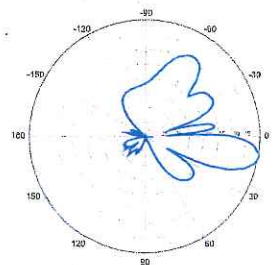
10° | Vertical | 750 MHz



6° | Vertical | 850 MHz



8° | Vertical | 850 MHz



10° | Vertical | 850 MHz

Quoted performance parameters are provided to offer typical or range values only and may vary as a result of normal manufacturing and operational conditions. Extreme operational conditions and/or stress on structural supports is beyond our control. Such conditions may result in damage to this product. Improvements to product may be made without notice.

Site Name: East Haddam Tower Height: Verizon @ 130ft		General	Power	Density				
CARRIER	# OF CHAN.	WATTS ERP	HEIGHT	CALC. POWER DENS	FREQ.	MAX. PERMISS. EXP.	FRACTION MPE	Total
*Nextel	24	100	150	0.0384	851	0.5673	6.76%	
*Sprint	11	505.36	140	0.1020	1950	1.0000	10.20%	
*AT&T UMTS	2	565	120	0.0282	880	0.5867	4.81%	
*AT&T UMTS	2	875	120	0.0437	1900	1.0000	4.37%	
*AT&T GSM	1	283	120	0.0071	880	0.5867	1.20%	
*AT&T GSM	4	525	120	0.0524	1900	1.0000	5.24%	
*AT&T LTE	1	1771	120	0.0442	734	0.4893	9.04%	
Verizon PCS	14	264	130	0.0786	1970	1.0000	7.86%	
Verizon Cellular	9	266	130	0.0509	869	0.5793	8.79%	
Verizon AWS	1	1750	130	0.0372	2145	1.0000	3.72%	
Verizon 700	1	1050	130	0.0223	698	0.4653	4.80%	66.80%
* Source: Siting Council								



AMERICAN TOWER®
CORPORATION

Structural Analysis Report

Structure : 150 ft Monopole
ATC Site Name : East Haddam, CT
ATC Site Number : 302527
Engineering Number : 53106021
Proposed Carrier : Verizon
Carrier Site Name : N/A
Carrier Site Number : N/A
Site Location : 135 Honey Hill Road
East Haddam, CT 06423-1714
41.436947,-72.366392
County : Middlesex
Date : May 1, 2013
Max Usage : 46%
Result : Pass

Madhukar Ozarker
Project Engineer



5/2/13



Eng. Number 53106021

May 1, 2013

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Introduction

The purpose of this report is to summarize results of a structural analysis performed on the 150 ft monopole to reflect the change in loading by Verizon.

Supporting Documents

Tower Drawings	Summit Manufacturing/PJF Job # 29201-0876, dated September 24, 2001
Foundation Drawing	Summit Manufacturing/PJF Job # 29201-0876, dated October 30, 2001
Geotechnical Report	Dr. Clarence Welti, P.E., P.C. letter dated June 28, 2001

Analysis

The tower was analyzed using American Tower Corporation's tower analysis software. This program considers an elastic three-dimensional model and second-order effects per ANSI/EIA-222.

Basic Wind Speed:	95 mph (Fastest Mile)/110 mph (3 sec Gust)
Basic Wind Speed w/ Ice:	82 mph (Fastest Mile)w/ 1/2" radial ice concurrent
Code:	ANSI/TIA/EIA-222-F / 2003 IBC , Sec. 1609.1.1, Exception (5) & Sec. 3108.4 w/ 2005 CT Supplement & 2009 CT Amendment

Conclusion

Based on the analysis results, the structure meets the requirements per the applicable codes listed above. The tower and foundation can support the equipment as described in this report.

If you have any questions or require additional information, please contact me via email at madhukar.ozarker@americantower.com or call 919-466-5184.



Existing and Reserved Equipment

Mount Elev. ¹ (ft)	Qty.	Antenna	Mount Type	Lines	Carrier
150.0	9	48" x 12" Panels	Low Profile Platform	(12) 1 5/8" Coax	Sprint Nextel
	3	72" x 12" Panels			
140.0	12	Decibel DB980F65E-M	T-Arms	(24) 1 5/8" Coax	
130.0	3	Antel BXA-171063-8BF-EDIN-X	Low Profile Platform	(9) 1 5/8" Coax	Verizon
	6	RFS APL868013-42T0			
	6	RFS FD9R6004/2C-3L			
120.0	3	14" x 9" TTA	Low Profile Platform	(12) 1 5/8" Coax (2) 0.78" 8 AWG 6 (1) 0.39" Fiber	AT&T Mobility
	3	36" x 8" x 6" Panel			
	7	72" x 12" Panels			
	1	Andrew DBXNH-6565B-R2M			
	1	Commscope SBNH-1D4545A			
	6	Ericsson RRUS-11 1900 MHz			
	6	Powerwave LGP21401			
1	Raycap DC6-48-60-18-8F				
65.0	1	GPS	Side Arm	(1) 1/2" Coax	Sprint Nextel

Proposed Equipment

Elevation ¹ (ft)		Qty.	Antenna	Mount Type	Lines	Carrier
Mount	RAD					
130.0	130.0	3	Antel BXA-70063-6CF-EDIN-X	Low Profile Platform	(3) 1 5/8" Coax	Verizon

¹Mount elevation is defined as height above bottom of steel structure to the bottom of mount, RAD elevation is defined as center of antenna above ground level (AGL).

Install proposed coax inside the pole shaft.



Structure Usages

Structural Component	Controlling Usage	Pass/Fail
Anchor Bolts	46%	Pass
Shaft	43%	Pass
Base Plate	38%	Pass

Foundations

Reaction Component	Original Design Reactions	Analysis Reactions	% of Design
Moment (Kips-Ft)	9,100.0	4,090.7	45%
Shear (Kips)	69.0	39.6	57%

The structure base reactions resulting from this analysis are acceptable when compared to those shown on the original structure drawings, therefore no modification or reinforcement of the foundation will be required.

Deflection and Sway*

Antenna Elevation (ft)	Deflection (ft)	Sway (Rotation) (°)
130.0	0.523	0.405

*Deflection and Sway was evaluated considering a design wind speed of 50 mph (Fastest Mile) per ANSI/TIA/EIA-222-F.



Standard Conditions

All engineering services are performed on the basis that the information used is current and correct. This information may consist of, but is not necessary limited, to:

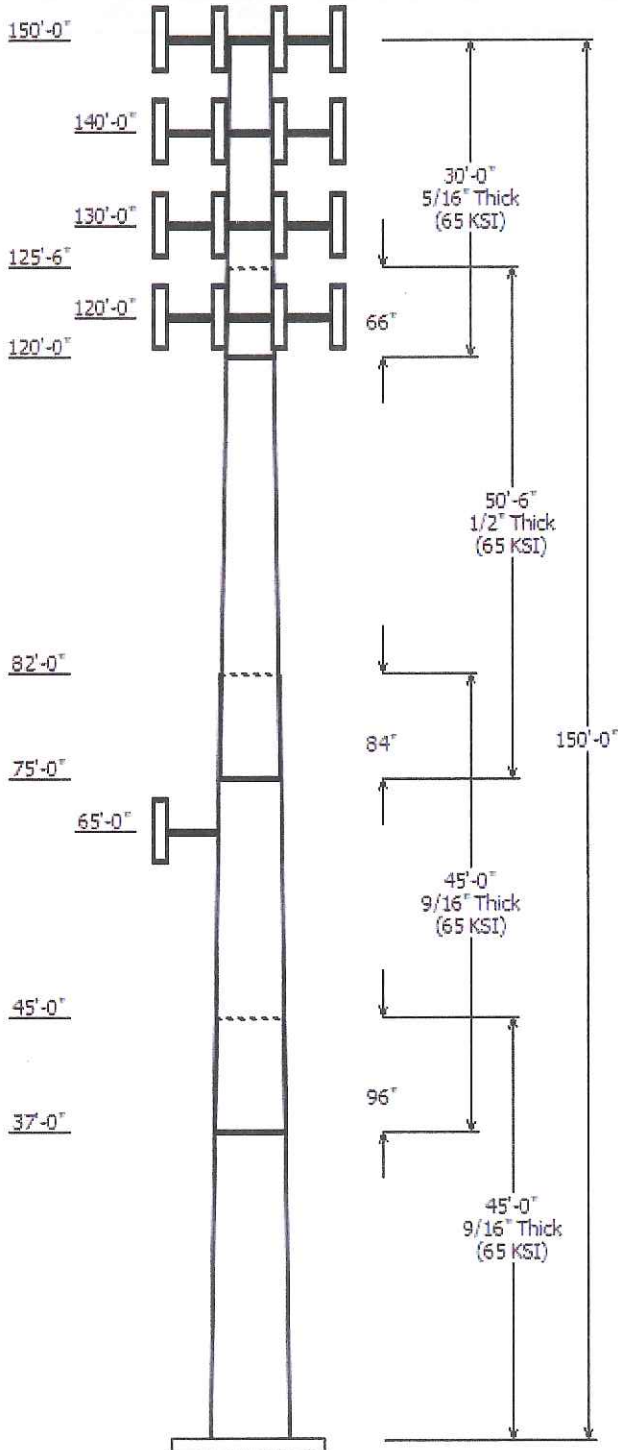
- Information supplied by the client regarding the structure itself, antenna, mounts and feed line loading on the structure and its components, or other relevant information.
- Information from drawings in the possession of American Tower Corporation, or generated by field inspections or measurements of the structure.

It is the responsibility of the client to ensure that the information provided to ATC Tower Services and used in the performance of our engineering services is correct and complete. In the absence of information to the contrary, we assume that all structures were constructed in accordance with the drawings and specifications and that their capacity has not significantly changed from the "as new" condition.

Unless explicitly agreed by both the client and American Tower Corporation, all services will be performed in accordance with the current revision of ANSI/TIA -222. The design basic wind speed will be determined based on the minimum basic wind speed as prescribed in ANSI/TIA-222. Although every effort is taken to ensure that the loading considered is adequate to meet the requirements of all applicable regulatory entities, we can provide no assurance to meet any other local and state codes or requirements. If wind and ice loads or other relevant parameters are to be different from the minimum values recommended by the codes, the client shall specify the exact requirement.

All services are performed, results obtained, and recommendations made in accordance with generally accepted engineering principles and practices. ATC Tower Services is not responsible for the conclusions, opinions and recommendations made by others based on the information we supply.

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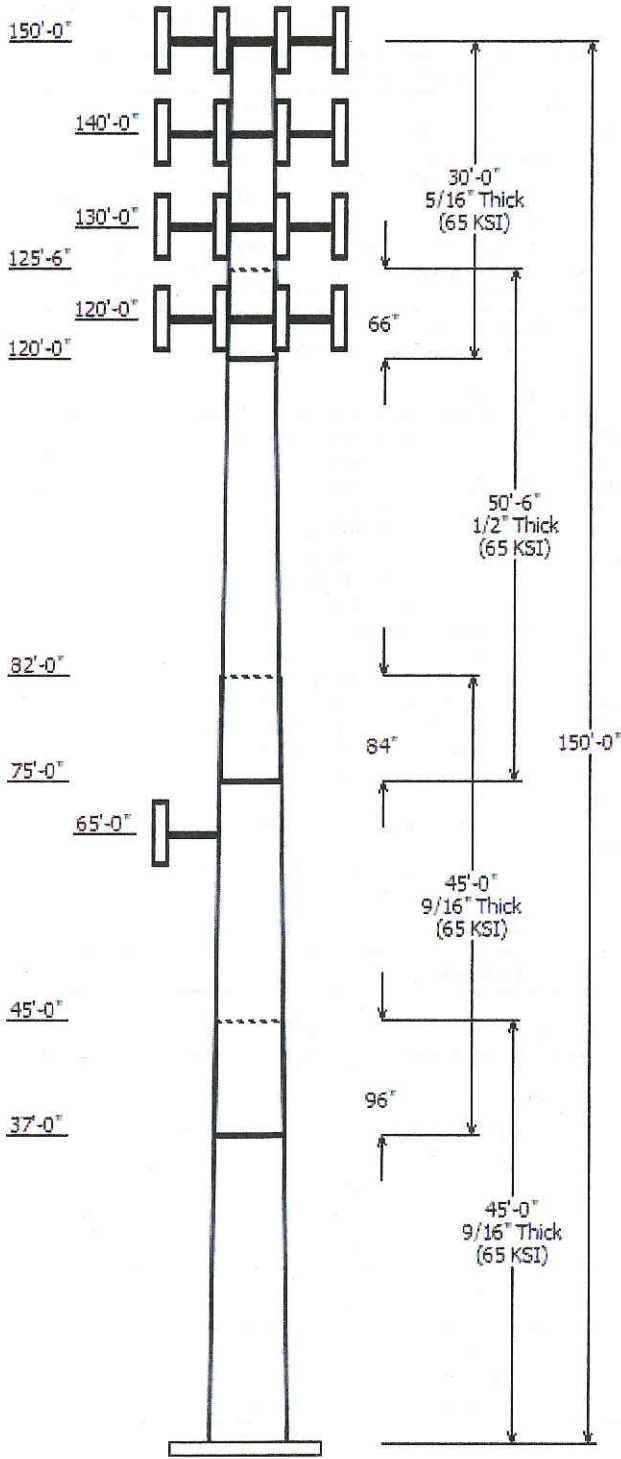
Job Information	
Pole :	302527
Code :	TIA/EIA-222 Rev F
Description :	150' Summit Monopole
Client :	Verizon Wireless
Location :	East Haddam, CT
Shape :	18 Sides
Height :	150.00 (ft)
Base Elev (ft):	0.00
Taper:	0.25362(in/ft)

Sections Properties						
Shaft Section	Length (ft)	Diameter (in)		Thick Joint Type	Overlap Length (in)	Steel Taper Grade (in/ft) (ksi)
		Across Top	Flats Bottom			
1	45.000	60.78	72.20	0.563	0.000	0.253625 65
2	45.000	52.52	63.94	0.563	Slip Joint	96.000 0.253625 65
3	50.500	42.49	55.30	0.500	Slip Joint	84.000 0.253625 65
4	30.000	36.90	44.51	0.313	Slip Joint	66.000 0.253625 65

Discrete Appurtenance			
Attach Elev (ft)	Force Elev (ft)	Qty	Description
150.000	150.000	1	Flat Low Profile Platform
150.000	150.000	9	48" x 12" Panels
150.000	150.000	3	72" x 12" Panels
140.000	140.000	3	Round T-Arms
140.000	140.000	12	Decibel DB980F65E-M
130.000	130.000	3	Antel BXA-70063-6CF-EDIN-X
130.000	130.000	6	RFS APL868013-42T0
130.000	130.000	1	Flat Low Profile Platform
130.000	130.000	6	RFS FD9R6004/2C-3L
130.000	130.000	3	Antel BXA-171063-8BF-EDIN-X
120.000	120.000	1	Andrew DBXNH-6565B-R2M
120.000	120.000	1	Commscope SBNH-1D4545A
120.000	120.000	6	Ericsson RRUS-11 1900 MHz
120.000	120.000	1	Raycap DC6-48-60-18-8F
120.000	120.000	3	36" x 8" x 6" Panel
120.000	120.000	7	72" x 12" Panels
120.000	120.000	6	Powerwave LGP21401
120.000	120.000	3	14" x 9" TTA
120.000	120.000	1	Round Low Profile Platform
65.000	65.000	1	Flat Side Arm
65.000	65.000	1	GPS

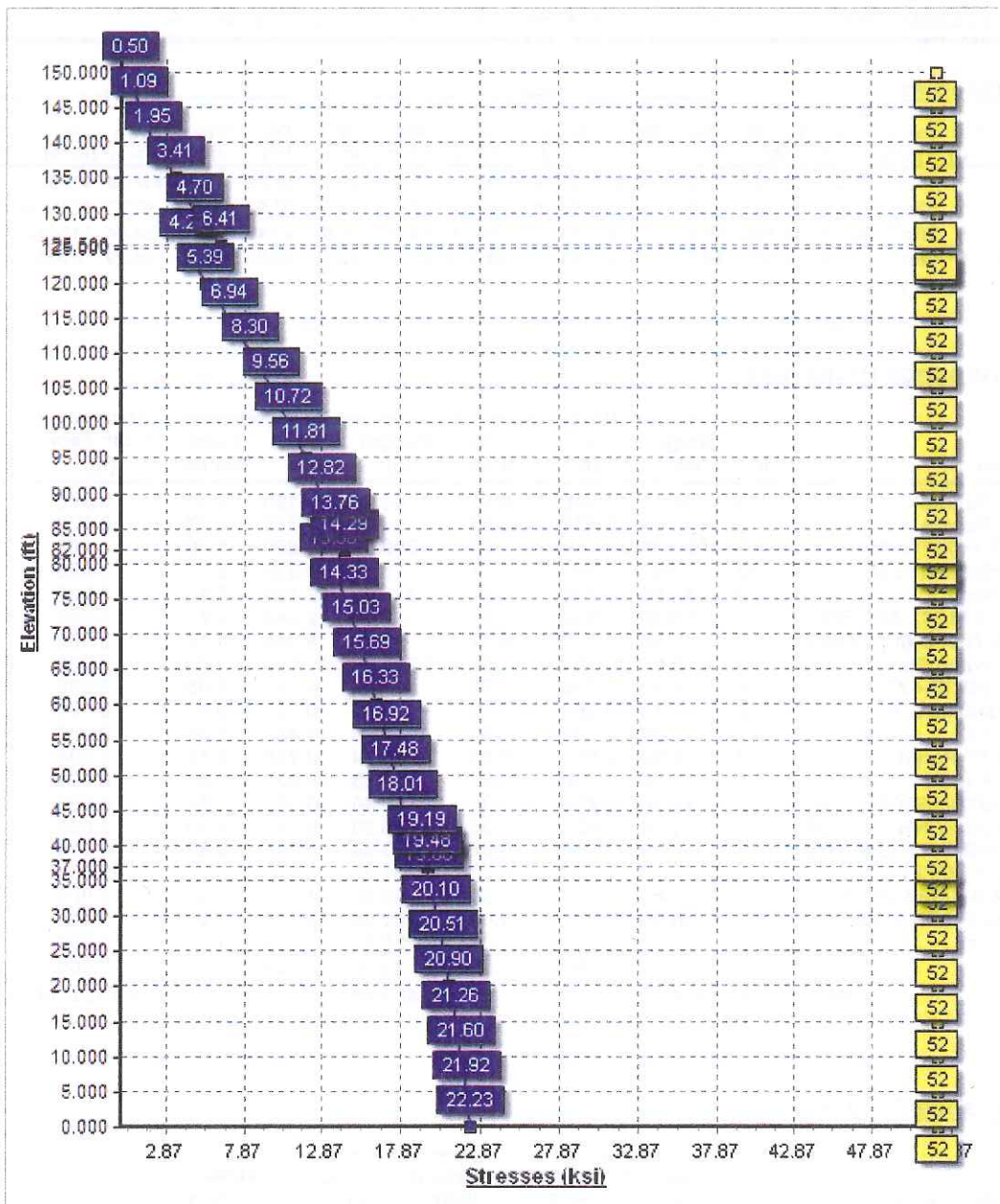
Linear Appurtenance			
Elev (ft)		Description	Exposed To Wind
From	To		
10.000	65.000	1/2" Coax	No
10.000	120.0	0.39" Fiber	No
10.000	120.0	0.78" 8 AWG 6	No
10.000	120.0	1 5/8" Coax	No
10.000	130.0	1 5/8" Coax	No
10.000	140.0	1 5/8" Coax	No
10.000	150.0	1 5/8" Coax	No

Load Cases	
No Ice	95.00 mph Wind with No Ice
Ice	82.27 mph Wind with Ice
Twist/Sway	50.00 mph Wind with No Ice



Reactions			
Load Case	Moment (kip-ft)	Shear (kip)	Axial (kip)
No Ice	4090.71	39.60	64.29
Ice	3385.80	32.12	71.89
Twist/Sway	1133.20	10.97	64.31

Dish Deflections			
Load Case	Attach Elev (ft)	Deflection (in)	Rotation (deg)
	0.00	0.000	0.000

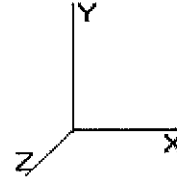


Pole : 302527
 Location : East Haddam, CT
 Height : 150.0 (ft)
 Base Dia : 72.20 (in)
 Top Dia : 36.90 (in)
 Shape : 18 Sides
 Taper : 0.253625 (in/ft)

Code: TIA/EIA-222 Rev F

5/1/2013 6:17:40 PM
 Page: 1

Base Elev: 0.000 (ft)



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Shaft Section Properties

Sect Info	Length (ft)	Thick (in)	Fy (ksi)	Slip		Weight (lb)	Bottom								Top					
				Joint Type	Joint Len (in)		Dia (in)	Elev (ft)	Area (sqin)	Ix (in^4)	W/t Ratio	D/t Ratio	Dia (in)	Elev (ft)	Area (sqin)	Ix (in^4)	W/t Ratio	D/t Ratio	Taper (in/ft)	
1-18	45.000	0.5625	65		0.00	18,024	72.20	0.00	127.89	82924.1	21.22	128.35	60.78	45.00	107.52	49269.2	17.64	108.06	0.253625	
2-18	45.000	0.5625	65	Slip	96.00	15,766	63.94	37.00	113.15	57422.3	18.63	113.67	52.52	82.00	92.77	31651.5	15.06	93.38	0.253625	
3-18	50.500	0.5000	65	Slip	84.00	13,198	55.30	75.00	86.97	33000.5	18.09	110.61	42.49	125.50	66.64	14849.0	13.58	84.99	0.253625	
4-18	30.000	0.3125	65	Slip	66.00	4,090	44.51	120.00	43.84	10822.4	23.71	142.45	36.90	150.00	36.29	6140.5	19.41	118.10	0.253625	
Shaft Weight						51,078														

Discrete Appurtenance Properties

Attach Elev (ft)	Description	Qty	No Ice			Ice			Distance From Face (ft)	Vert Ecc (ft)
			Weight (lb)	CaAa (sf)	CaAa Factor	Weight (lb)	CaAa (sf)	CaAa Factor		
150.00	48" x 12" Panels	9	30.00	5.600	0.67	63.00	6.190	0.67	0.000	0.000
150.00	72" x 12" Panels	3	45.00	8.400	0.67	92.28	9.230	0.67	0.000	0.000
150.00	Flat Low Profile Platform	1	1500.00	26.100	1.00	1,700.00	31.600	1.00	0.000	0.000
140.00	Decibel DB980F65E-M	12	9.50	3.750	0.81	25.00	4.320	0.83	0.000	0.000
140.00	Round T-Arms	3	250.00	9.700	0.67	314.00	12.100	0.67	0.000	0.000
130.00	Antel BXA-171063-8BF-EDIN-X	3	10.50	2.940	0.87	29.80	2.940	0.87	0.000	0.000
130.00	Antel BXA-70063-6CF-EDIN-X	3	17.00	7.730	0.77	58.00	8.540	0.77	0.000	0.000
130.00	Flat Low Profile Platform	1	1500.00	26.100	1.00	1,700.00	31.600	1.00	0.000	0.000
130.00	RFS APL868013-42T0	6	6.30	3.730	0.88	32.00	4.290	0.88	0.000	0.000
130.00	RFS FD9R6004/2C-3L	6	3.10	0.360	0.50	5.40	0.500	0.50	0.000	0.000
120.00	14" x 9" TTA	3	10.00	1.230	0.50	18.00	1.460	0.50	0.000	0.000
120.00	36" x 8" x 6" Panel	3	25.00	2.800	0.88	44.54	3.240	0.88	0.000	0.000
120.00	72" x 12" Panels	7	45.00	8.400	0.67	92.28	9.230	0.67	0.000	0.000
120.00	Andrew DBXNH-6565B-R2M	1	46.30	8.410	1.00	96.80	9.240	1.00	0.000	0.000
120.00	Commscope SBNH-1D4545A	1	39.70	8.920	1.00	88.80	9.640	1.00	0.000	0.000
120.00	Ericsson RRUS-11 1900 MHz	6	44.00	2.940	0.67	63.30	3.290	0.67	0.000	0.000
120.00	Powerwave LGP21401	6	14.10	1.290	0.50	21.26	1.530	0.50	0.000	0.000
120.00	Raycap DC6-48-60-18-8F	1	31.80	1.470	1.00	49.50	1.670	1.00	0.000	0.000
120.00	Round Low Profile Platform	1	1500.00	21.700	1.00	1,700.00	27.200	1.00	0.000	0.000
65.00	Flat Side Arm	1	150.00	6.300	1.00	230.00	7.000	1.00	0.000	0.000
65.00	GPS	1	10.00	1.000	1.00	18.00	1.300	1.00	0.000	0.000
Totals		78	6954.30			9,497.68			Number of Loadings :	21

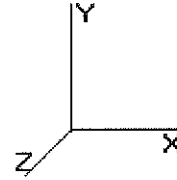
Linear Appurtenance Properties

Elev From (ft)	Elev To (ft)	Description	No Ice		Ice		Exposed To Wind
			Weight (lb/ft)	CaAa (sf/ft)	Weight (lb/ft)	CaAa (sf/ft)	
10.00	150.00	(12) 1 5/8" Coax	9.84	0.00	0.00	0.00	N
10.00	140.00	(24) 1 5/8" Coax	19.70	0.00	0.00	0.00	N
10.00	130.00	(12) 1 5/8" Coax	9.84	0.00	0.00	0.00	N
10.00	120.00	(1) 0.39" Fiber	0.07	0.00	0.00	0.00	N
10.00	120.00	(2) 0.78" 8 AWG 6	0.59	0.00	0.00	0.00	N
10.00	120.00	(12) 1 5/8" Coax	9.84	0.00	0.00	0.00	N
10.00	65.00	(1) 1/2" Coax	0.15	0.00	0.00	0.00	N
Total Weight			6,282.64 (lb)		0.00 (lb)		

Pole : 302527
 Location : East Haddam, CT
 Height : 150.0 (ft)
 Base Dia : 72.20 (in)
 Top Dia : 36.90 (in)
 Shape : 18 Sides
 Taper : 0.253625 (in/ft)

Code: TIA/EIA-222 Rev F

Base Elev : 0.000 (ft)



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Segment Properties (Max Len : 5 ft)

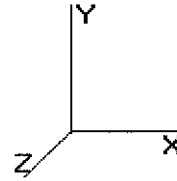
Seg Top Elev (ft)	Description	Thick (in)	Flat Dia (in)	Area (in^2)	Ix (in^4)	W/t Ratio	D/t Ratio	Fy (ksi)	Fb (ksi)	Weight (lb)
0.00		0.5625	72.200	127.894	82,924.1	21.22	128.35	65	52	0.0
5.00		0.5625	70.931	125.630	78,597.9	20.82	126.10	65	52	2,156.7
10.00		0.5625	69.663	123.366	74,424.7	20.43	123.85	65	52	2,118.2
15.00		0.5625	68.395	121.103	70,402.0	20.03	121.59	65	52	2,079.7
20.00		0.5625	67.127	118.839	66,526.9	19.63	119.34	65	52	2,041.2
25.00		0.5625	65.859	116.575	62,796.6	19.23	117.08	65	52	2,002.6
30.00		0.5625	64.591	114.311	59,208.5	18.84	114.83	65	52	1,964.1
35.00		0.5625	63.323	112.047	55,759.7	18.44	112.57	65	52	1,925.6
37.00	Bot - Section 2	0.5625	62.815	111.141	54,418.6	18.28	111.67	65	52	759.5
40.00		0.5625	62.055	109.783	52,447.5	18.04	110.32	65	52	2,275.8
45.00	Top - Section 1	0.5625	61.911	109.527	52,082.2	18.00	110.06	65	52	3,731.3
50.00		0.5625	60.643	107.263	48,918.8	17.60	107.81	65	52	1,844.2
55.00		0.5625	59.375	104.999	45,886.1	17.20	105.56	65	52	1,805.7
60.00		0.5625	58.107	102.735	42,981.5	16.80	103.30	65	52	1,767.2
65.00		0.5625	56.839	100.471	40,202.0	16.41	101.05	65	52	1,728.7
70.00		0.5625	55.571	98.207	37,545.1	16.01	98.79	65	52	1,690.1
75.00	Bot - Section 3	0.5625	54.303	95.943	35,007.9	15.61	96.54	65	52	1,651.6
80.00		0.5625	53.035	93.679	32,587.6	15.21	94.28	65	52	3,075.7
82.00	Top - Section 2	0.5000	53.527	84.151	29,896.1	17.47	107.05	65	52	1,209.9
85.00		0.5000	52.767	82.944	28,627.6	17.20	105.53	65	52	852.9
90.00		0.5000	51.498	80.932	26,594.0	16.75	103.00	65	52	1,394.1
95.00		0.5000	50.230	78.919	24,659.1	16.30	100.46	65	52	1,359.8
100.00		0.5000	48.962	76.907	22,820.3	15.86	97.92	65	52	1,325.6
105.00		0.5000	47.694	74.894	21,075.4	15.41	95.39	65	52	1,291.4
110.00		0.5000	46.426	72.882	19,421.7	14.96	92.85	65	52	1,257.1
115.00		0.5000	45.158	70.869	17,856.9	14.51	90.32	65	52	1,222.9
120.00	Bot - Section 4	0.5000	43.890	68.857	16,378.4	14.07	87.78	65	52	1,188.6
125.00		0.5000	42.622	66.844	14,984.0	13.62	85.24	65	52	1,889.6
125.5	Top - Section 3	0.3125	43.120	42.458	9,829.8	22.92	137.98	65	52	185.9
130.00		0.3125	41.978	41.326	9,064.3	22.28	134.33	65	52	641.5
135.00		0.3125	40.710	40.068	8,261.6	21.56	130.27	65	52	692.4
140.00		0.3125	39.442	38.810	7,507.8	20.84	126.21	65	52	671.0
145.00		0.3125	38.174	37.553	6,801.3	20.13	122.16	65	52	649.6
150.00		0.3125	36.906	36.295	6,140.5	19.41	118.10	65	52	628.2
										51,078.4

Pole : 302527
 Location : East Haddam, CT
 Height : 150.0 (ft)
 Base Dia : 72.20 (in)
 Top Dia : 36.90 (in)
 Shape : 18 Sides
 Taper : 0.253625 (in/ft)

Code: TIA/EIA-222 Rev F

Base Elev : 0.000 (ft)

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Load Case: No Ice	95.00 mph Wind with No Ice	17 Iterations
Gust Response Factor : 1.69		
Dead Load Factor : 1.00		
Wind Load Factor : 1.00		

Shaft Segment Forces

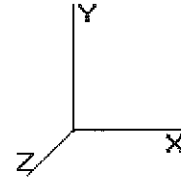
Seg Top Elev (ft)	Description	Kz	qz (psf)	qzGh (psf)	C (mph-ft)	Cf	Ice Thick (in)	Tributary (ft)	Aa (sf)	CfAa (sf)	Wind Force X (lb)	Dead Load Ice (lb)	Tot Dead Load (lb)
0.00		0.00	1.00 23.104	39.04 571.58	0.650	0.000	0.00	0.000	0.00	0.00	0.0	0.0	0.0
5.00		0.00	1.00 23.104	39.04 561.54	0.650	0.000	5.00	29.819	19.38	756.8	0.0	2,156.7	
10.00		0.00	1.00 23.104	39.04 551.50	0.650	0.000	5.00	29.291	19.04	743.4	0.0	2,118.2	
15.00		0.00	1.00 23.104	39.04 541.46	0.650	0.000	5.00	28.762	18.70	730.0	0.0	2,079.7	
20.00		0.00	1.00 23.104	39.04 531.42	0.650	0.000	5.00	28.234	18.35	716.6	0.0	2,041.2	
25.00		0.00	1.00 23.104	39.04 521.38	0.650	0.000	5.00	27.705	18.01	703.2	0.0	2,002.6	
30.00		0.00	1.00 23.104	39.04 511.34	0.650	0.000	5.00	27.177	17.67	689.7	0.0	1,964.1	
35.00		0.00	1.01 23.496	39.70 505.53	0.650	0.000	5.00	26.649	17.32	687.8	0.0	1,925.6	
37.00	Bot - Section 2	0.00	1.03 23.872	40.34 505.48	0.650	0.000	2.00	10.512	6.83	275.6	0.0	759.5	
40.00		0.00	1.05 24.409	41.25 504.95	0.650	0.000	3.00	15.890	10.33	426.1	0.0	2,275.8	
45.00	Top - Section 1	0.00	1.09 25.245	42.66 503.02	0.650	0.000	5.00	26.061	16.94	722.7	0.0	3,731.3	
50.00		0.00	1.12 26.016	43.96 509.45	0.650	0.000	5.00	25.532	16.60	729.7	0.0	1,844.2	
55.00		0.00	1.15 26.735	45.18 505.63	0.650	0.000	5.00	25.004	16.25	734.3	0.0	1,805.7	
60.00		0.00	1.18 27.407	46.31 501.02	0.650	0.000	5.00	24.475	15.91	736.9	0.0	1,767.2	
65.00	Appertunance(s)	0.00	1.21 28.042	47.39 495.73	0.650	0.000	5.00	23.947	15.57	737.7	0.0	1,728.7	
70.00		0.00	1.24 28.642	48.40 489.82	0.650	0.000	5.00	23.419	15.22	736.8	0.0	1,690.1	
75.00	Bot - Section 3	0.00	1.26 29.212	49.36 483.39	0.650	0.000	5.00	22.890	14.88	734.5	0.0	1,651.6	
80.00		0.00	1.28 29.755	50.28 476.47	0.650	0.000	5.00	22.779	14.81	744.5	0.0	3,075.7	
82.00	Top - Section 2	0.00	1.29 29.966	50.64 473.58	0.650	0.000	2.00	8.964	5.83	295.1	0.0	1,209.9	
85.00		0.00	1.31 30.275	51.16 478.19	0.650	0.000	3.00	13.287	8.64	441.9	0.0	852.9	
90.00		0.00	1.33 30.774	52.00 470.52	0.650	0.000	5.00	21.722	14.12	734.3	0.0	1,394.1	
95.00		0.00	1.35 31.253	52.81 462.49	0.650	0.000	5.00	21.193	13.78	727.6	0.0	1,359.8	
100.00		0.00	1.37 31.714	53.59 454.13	0.650	0.000	5.00	20.665	13.43	719.9	0.0	1,325.6	
105.00		0.00	1.39 32.159	54.34 445.46	0.650	0.000	5.00	20.137	13.09	711.4	0.0	1,291.4	
110.00		0.00	1.41 32.590	55.07 436.51	0.650	0.000	5.00	19.608	12.75	702.0	0.0	1,257.1	
115.00		0.00	1.42 33.006	55.78 427.29	0.650	0.000	5.00	19.080	12.40	691.8	0.0	1,222.9	
120.00	Bot - Section 4	0.00	1.44 33.410	56.46 417.83	0.650	0.000	5.00	18.552	12.06	680.9	0.0	1,188.6	
125.00		0.00	1.46 33.802	57.12 408.13	0.650	0.000	5.00	18.284	11.88	678.9	0.0	1,889.6	
125.50	Top - Section 3	0.00	1.46 33.841	57.19 407.14	0.650	0.000	0.50	1.799	1.17	66.9	0.0	185.9	
130.00	Appertunance(s)	0.00	1.48 34.183	57.76 404.23	0.650	0.000	4.50	15.956	10.37	599.1	0.0	641.5	
135.00		0.00	1.49 34.554	58.39 394.13	0.650	0.000	5.00	17.227	11.20	653.9	0.0	692.4	
140.00	Appertunance(s)	0.00	1.51 34.914	59.00 383.85	0.650	0.000	5.00	16.698	10.85	640.4	0.0	671.0	
145.00		0.00	1.52 35.266	59.60 373.37	0.650	0.000	5.00	16.170	10.51	626.4	0.0	649.6	
150.00	Appertunance(s)	0.00	1.54 35.610	60.18 362.72	0.650	0.000	5.00	15.642	10.17	611.9	0.0	628.2	
Totals:								150.00			21,188.6	0.0	51,078.4

Pole : 302527
 Location : East Haddam, CT
 Height : 150.0 (ft)
 Base Dia : 72.20 (in)
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Load Case: No Ice	95.00 mph Wind with No Ice	17 Iterations
Gust Response Factor : 1.69		
Dead Load Factor : 1.00		
Wind Load Factor : 1.00		

Discrete Appurtenance Segment Forces

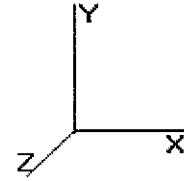
Elev (ft)	Description	Qty	qz (psf)	qzGh (psf)	CaAa Factor	Total CaAa (sf)	Horiz Ecc (ft)	Vert Ecc (ft)	Wind FX (lb)	Mom Y (lb-ft)	Mom Z (lb-ft)	Dead Load (lb)
65.00	Flat Side Arm	1	28.042	47.390	1.00	6.30	0.000	0.000	298.56	0.00	0.00	150.00
65.00	GPS	1	28.042	47.390	1.00	1.00	0.000	0.000	47.39	0.00	0.00	10.00
120.0	14" x 9" TTA	3	33.410	56.463	0.50	1.85	0.000	0.000	104.17	0.00	0.00	30.00
120.0	36" x 8" x 6" Panel	3	33.410	56.463	0.88	7.39	0.000	0.000	417.38	0.00	0.00	75.00
120.0	72" x 12" Panels	7	33.410	56.463	0.67	39.40	0.000	0.000	2,224.39	0.00	0.00	315.00
120.0	Andrew DBXNH-	1	33.410	56.463	1.00	8.41	0.000	0.000	474.85	0.00	0.00	46.30
120.0	Commscope SBNH-	1	33.410	56.463	1.00	8.92	0.000	0.000	503.65	0.00	0.00	39.70
120.0	Ericsson RRUS-11 190	6	33.410	56.463	0.67	11.82	0.000	0.000	667.33	0.00	0.00	264.00
120.0	Powerwave LGP21401	6	33.410	56.463	0.50	3.87	0.000	0.000	218.51	0.00	0.00	84.60
120.0	Raycap DC6-48-60-18-	1	33.410	56.463	1.00	1.47	0.000	0.000	83.00	0.00	0.00	31.80
120.0	Round Low Profile PI	1	33.410	56.463	1.00	21.70	0.000	0.000	1,225.24	0.00	0.00	1,500.00
130.0	Antel BXA-171063-8BF	3	34.183	57.769	0.87	7.67	0.000	0.000	443.29	0.00	0.00	31.50
130.0	Antel BXA-70063-6CF-	3	34.183	57.769	0.77	17.86	0.000	0.000	1,031.54	0.00	0.00	51.00
130.0	Flat Low Profile Pla	1	34.183	57.769	1.00	26.10	0.000	0.000	1,507.78	0.00	0.00	1,500.00
130.0	RFS APL868013-42T0	6	34.183	57.769	0.88	19.69	0.000	0.000	1,137.73	0.00	0.00	37.80
130.0	RFS FD9R6004/2C-3L	6	34.183	57.769	0.50	1.08	0.000	0.000	62.39	0.00	0.00	18.60
140.0	Decibel DB980F65E-M	12	34.914	59.005	0.81	36.45	0.000	0.000	2,150.75	0.00	0.00	114.00
140.0	Round T-Arms	3	34.914	59.005	0.67	19.50	0.000	0.000	1,150.42	0.00	0.00	750.00
150.0	48" x 12" Panels	9	35.610	60.180	0.67	33.77	0.000	0.000	2,032.16	0.00	0.00	270.00
150.0	72" x 12" Panels	3	35.610	60.180	0.67	16.88	0.000	0.000	1,016.08	0.00	0.00	135.00
150.0	Flat Low Profile Pla	1	35.610	60.180	1.00	26.10	0.000	0.000	1,570.70	0.00	0.00	1,500.00
									18,367.32			6,954.30

Pole : 302527
 Location : East Haddam, CT
 Height : 150.0 (ft)
 Base Dia : 72.20 (in)
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Base Elev : 0.000 (ft)

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Load Case: No Ice 95.00 mph Wind with No Ice 17 Iterations
 Gust Response Factor : 1.69
 Dead Load Factor : 1.00
 Wind Load Factor : 1.00

Applied Segment Forces Summary

Seg Elev (ft)	Lateral FX (-) (lb)	Axial FY (-) (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)
0.00	0.00	0.00	0.00	0.00
5.00	756.80	2,156.72	0.00	0.00
10.00	743.39	2,118.20	0.00	0.00
15.00	729.98	2,329.83	0.00	0.00
20.00	716.57	2,291.31	0.00	0.00
25.00	703.16	2,252.79	0.00	0.00
30.00	689.75	2,214.28	0.00	0.00
35.00	687.80	2,175.76	0.00	0.00
37.00	275.64	859.52	0.00	0.00
40.00	426.07	2,425.85	0.00	0.00
45.00	722.70	3,981.46	0.00	0.00
50.00	729.68	2,094.37	0.00	0.00
55.00	734.31	2,055.85	0.00	0.00
60.00	736.89	2,017.33	0.00	0.00
65.00	1,083.60	2,138.81	0.00	0.00
70.00	736.82	1,939.54	0.00	0.00
75.00	734.53	1,901.02	0.00	0.00
80.00	744.55	3,325.06	0.00	0.00
82.00	295.06	1,309.65	0.00	0.00
85.00	441.88	1,002.52	0.00	0.00
90.00	734.31	1,643.48	0.00	0.00
95.00	727.60	1,609.24	0.00	0.00
100.0	719.93	1,575.00	0.00	0.00
105.0	711.37	1,540.76	0.00	0.00
110.0	701.97	1,506.52	0.00	0.00
115.0	691.79	1,472.28	0.00	0.00
120.0	6,599.39	3,824.44	0.00	0.00
125.0	678.90	2,086.52	0.00	0.00
125.5	66.89	205.59	0.00	0.00
130.0	4,781.87	2,457.58	0.00	0.00
135.0	653.88	840.11	0.00	0.00
140.0	3,941.61	1,682.71	0.00	0.00
145.0	626.43	698.81	0.00	0.00
150.0	5,230.80	2,582.42	0.00	0.00
Totals:	39,555.92	64,315.36	0.00	0.00

Pole : 302527
 Location : East Haddam, CT
 Height : 150.0 (ft)
 Base Dia : 72.20 (in)
 Top Dia : 36.90 (in)
 Shape : 18 Sides
 Taper : 0.253625 (in/ft)

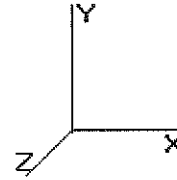
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Base Elev : 0.000 (ft)

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Load Case: No Ice 95.00 mph Wind with No Ice 17 Iterations

Gust Response Factor : 1.69
 Dead Load Factor : 1.00
 Wind Load Factor : 1.00

Calculated Shaft Forces and Deflections

Seg Elev (ft)	Lateral FX (-) (kips)	Axial FY (-) (kips)	Lateral FZ (kips)	Moment MX (ft-kips)	Torsion MY (ft-kips)	Moment MZ (ft-kips)	X Deflect (in)	Z Deflect (in)	Total Deflect (in)	Rotation (deg)
0.00	-39.595	-64.291	0.000	0.000	0.000	-4,090.712	0.000	0.000	0.000	0.000
5.00	-38.912	-62.088	0.000	0.000	0.000	-3,892.738	-0.037	0.000	0.037	-0.068
10.00	-38.236	-59.925	0.000	0.000	0.000	-3,698.184	-0.147	0.000	0.147	-0.137
15.00	-37.569	-57.552	0.000	0.000	0.000	-3,507.005	-0.328	0.000	0.328	-0.206
20.00	-36.909	-55.220	0.000	0.000	0.000	-3,319.165	-0.581	0.000	0.581	-0.275
25.00	-36.257	-52.927	0.000	0.000	0.000	-3,134.624	-0.907	0.000	0.907	-0.344
30.00	-35.614	-50.675	0.000	0.000	0.000	-2,953.341	-1.305	0.000	1.305	-0.413
35.00	-34.950	-48.475	0.000	0.000	0.000	-2,775.275	-1.775	0.000	1.775	-0.482
37.00	-34.696	-47.597	0.000	0.000	0.000	-2,705.376	-1.983	0.000	1.983	-0.510
40.00	-34.290	-45.142	0.000	0.000	0.000	-2,601.291	-2.318	0.000	2.318	-0.551
45.00	-33.576	-41.128	0.000	0.000	0.000	-2,429.842	-2.932	0.000	2.932	-0.620
50.00	-32.867	-39.005	0.000	0.000	0.000	-2,261.964	-3.618	0.000	3.618	-0.687
55.00	-32.147	-36.923	0.000	0.000	0.000	-2,097.632	-4.373	0.000	4.373	-0.751
60.00	-31.421	-34.882	0.000	0.000	0.000	-1,936.897	-5.193	0.000	5.193	-0.813
65.00	-30.341	-32.727	0.000	0.000	0.000	-1,779.795	-6.079	0.000	6.079	-0.875
70.00	-29.605	-30.769	0.000	0.000	0.000	-1,628.093	-7.028	0.000	7.028	-0.935
75.00	-28.868	-28.851	0.000	0.000	0.000	-1,480.069	-8.040	0.000	8.040	-0.994
80.00	-28.082	-25.521	0.000	0.000	0.000	-1,335.731	-9.112	0.000	9.112	-1.051
82.00	-27.774	-24.203	0.000	0.000	0.000	-1,279.568	-9.558	0.000	9.558	-1.074
85.00	-27.332	-23.188	0.000	0.000	0.000	-1,196.245	-10.244	0.000	10.244	-1.107
90.00	-26.586	-21.534	0.000	0.000	0.000	-1,059.588	-11.435	0.000	11.435	-1.163
95.00	-25.843	-19.917	0.000	0.000	0.000	-926.661	-12.683	0.000	12.683	-1.216
100.0	-25.104	-18.337	0.000	0.000	0.000	-797.449	-13.985	0.000	13.985	-1.266
105.0	-24.371	-16.794	0.000	0.000	0.000	-671.930	-15.336	0.000	15.336	-1.312
110.0	-23.644	-15.288	0.000	0.000	0.000	-550.077	-16.734	0.000	16.734	-1.353
115.0	-22.925	-13.820	0.000	0.000	0.000	-431.856	-18.172	0.000	18.172	-1.389
120.0	-16.239	-10.151	0.000	0.000	0.000	-317.229	-19.644	0.000	19.644	-1.419
125.0	-15.510	-8.079	0.000	0.000	0.000	-236.035	-21.144	0.000	21.144	-1.443
125.5	-15.439	-7.872	0.000	0.000	0.000	-228.280	-21.296	0.000	21.296	-1.445
130.0	-10.598	-5.533	0.000	0.000	0.000	-158.804	-22.667	0.000	22.667	-1.462
135.0	-9.925	-4.707	0.000	0.000	0.000	-105.812	-24.210	0.000	24.210	-1.483
140.0	-5.941	-3.127	0.000	0.000	0.000	-56.190	-25.772	0.000	25.772	-1.497
145.0	-5.297	-2.444	0.000	0.000	0.000	-26.484	-27.344	0.000	27.344	-1.505
150.0	-5.231	0.000	0.000	0.000	0.000	0.000	-28.922	0.000	28.922	-1.507

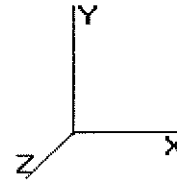
Pole : 302527
 Location : East Haddam, CT
 Height : 150.0 (ft)
 Base Dia : 72.20 (in)
 Top Dia : 36.90 (in)
 Shape : 18 Sides
 Taper : 0.253625 (in/ft)

Code: TIA/EIA-222 Rev F

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Base Elev: 0.000 (ft)

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Load Case: No Ice	95.00 mph Wind with No Ice	17 Iterations
Gust Response Factor : 1.69		
Dead Load Factor : 1.00		
Wind Load Factor : 1.00		

Calculated Stresses

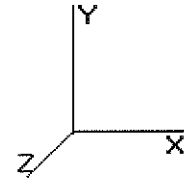
Seg Elev (ft)	Applied Stresses							Allowable Stress (Fb) (ksi)	Stress Ratio	
	Axial (Y) (ksi)	Shear (X) (ksi)	Shear (Z) (ksi)	Torsion (ksi)	Bending (X) (ksi)	Bending (Z) (ksi)	Combined (ksi)			
0.00	0.50	0.62	0.00	0.00	0.00	21.70	22.23	52.0	0.0	0.428
5.00	0.49	0.62	0.00	0.00	0.00	21.40	21.92	52.0	0.0	0.422
10.00	0.49	0.62	0.00	0.00	0.00	21.09	21.60	52.0	0.0	0.416
15.00	0.48	0.63	0.00	0.00	0.00	20.76	21.26	52.0	0.0	0.409
20.00	0.46	0.63	0.00	0.00	0.00	20.40	20.90	52.0	0.0	0.402
25.00	0.45	0.63	0.00	0.00	0.00	20.03	20.51	52.0	0.0	0.395
30.00	0.44	0.63	0.00	0.00	0.00	19.63	20.10	52.0	0.0	0.387
35.00	0.43	0.63	0.00	0.00	0.00	19.20	19.66	52.0	0.0	0.378
37.00	0.43	0.63	0.00	0.00	0.00	19.03	19.48	52.0	0.0	0.375
40.00	0.41	0.63	0.00	0.00	0.00	18.75	19.19	52.0	0.0	0.369
45.00	0.38	0.62	0.00	0.00	0.00	17.60	18.01	52.0	0.0	0.346
50.00	0.36	0.62	0.00	0.00	0.00	17.08	17.48	52.0	0.0	0.336
55.00	0.35	0.62	0.00	0.00	0.00	16.54	16.92	52.0	0.0	0.326
60.00	0.34	0.62	0.00	0.00	0.00	15.95	16.33	52.0	0.0	0.314
65.00	0.33	0.61	0.00	0.00	0.00	15.33	15.69	52.0	0.0	0.302
70.00	0.31	0.61	0.00	0.00	0.00	14.68	15.03	52.0	0.0	0.289
75.00	0.30	0.61	0.00	0.00	0.00	13.99	14.33	52.0	0.0	0.276
80.00	0.27	0.60	0.00	0.00	0.00	13.24	13.56	52.0	0.0	0.261
82.00	0.29	0.67	0.00	0.00	0.00	13.96	14.29	52.0	0.0	0.275
85.00	0.28	0.66	0.00	0.00	0.00	13.43	13.76	52.0	0.0	0.265
90.00	0.27	0.66	0.00	0.00	0.00	12.50	12.82	52.0	0.0	0.247
95.00	0.25	0.66	0.00	0.00	0.00	11.50	11.81	52.0	0.0	0.227
100.00	0.24	0.66	0.00	0.00	0.00	10.42	10.72	52.0	0.0	0.206
105.00	0.22	0.66	0.00	0.00	0.00	9.26	9.56	52.0	0.0	0.184
110.00	0.21	0.65	0.00	0.00	0.00	8.01	8.30	52.0	0.0	0.160
115.00	0.20	0.65	0.00	0.00	0.00	6.65	6.94	52.0	0.0	0.134
120.00	0.15	0.48	0.00	0.00	0.00	5.18	5.39	52.0	0.0	0.104
125.00	0.12	0.47	0.00	0.00	0.00	4.09	4.29	52.0	0.0	0.083
125.50	0.19	0.73	0.00	0.00	0.00	6.10	6.41	52.0	0.0	0.123
130.00	0.13	0.52	0.00	0.00	0.00	4.48	4.70	52.0	0.0	0.090
135.00	0.12	0.50	0.00	0.00	0.00	3.18	3.41	52.0	0.0	0.066
140.00	0.08	0.31	0.00	0.00	0.00	1.80	1.95	52.0	0.0	0.038
145.00	0.07	0.28	0.00	0.00	0.00	0.91	1.09	52.0	0.0	0.021
150.00	0.00	0.29	0.00	0.00	0.00	0.00	0.50	52.0	0.0	0.010

Pole : 302527
 Location : East Haddam, CT
 Height : 150.0 (ft)
 Base Dia : 72.20 (in)
 Top Dia : 36.90 (in)
 Shape : 18 Sides
 Taper : 0.253625 (in/ft)

Code: TIA/EIA-222 Rev F

Base Elev : 0.000 (ft)

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Load Case: Ice	82.27 mph Wind with Ice	17 Iterations
Gust Response Factor : 1.69		
Dead Load Factor : 1.00		
Wind Load Factor : 1.00		

Shaft Segment Forces

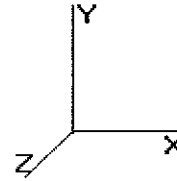
Seg Top Elev (ft)	Description	Kz	qz (psf)	qzGh (psf)	C (mph-ft)	Cf	Ice Thick (in)	Tributary (ft)	Aa (sf)	CfAa (sf)	Wind Force X (lb)	Dead Load Ice (lb)	Tot Dead Load (lb)
0.00		0.00	1.00 17.327	29.28 494.98	0.650		0.500	0.00	0.000	0.00	0.0	0.0	0.0
5.00		0.00	1.00 17.327	29.28 486.29	0.650		0.500	5.00	30.236	19.65	575.5	220.4	2,377.1
10.00		0.00	1.00 17.327	29.28 477.60	0.650		0.500	5.00	29.707	19.31	565.4	216.5	2,334.7
15.00		0.00	1.00 17.327	29.28 468.90	0.650		0.500	5.00	29.179	18.97	555.4	212.6	2,292.3
20.00		0.00	1.00 17.327	29.28 460.21	0.650		0.500	5.00	28.650	18.62	545.3	208.7	2,249.8
25.00		0.00	1.00 17.327	29.28 451.51	0.650		0.500	5.00	28.122	18.28	535.3	204.8	2,207.4
30.00		0.00	1.00 17.327	29.28 442.82	0.650		0.500	5.00	27.594	17.94	525.2	200.9	2,165.0
35.00		0.00	1.01 17.621	29.77 437.79	0.650		0.500	5.00	27.065	17.59	523.9	196.9	2,122.5
37.00	Bot - Section 2	0.00	1.03 17.903	30.25 437.74	0.650		0.500	2.00	10.678	6.94	210.0	78.1	837.6
40.00		0.00	1.05 18.306	30.93 437.29	0.650		0.500	3.00	16.140	10.49	324.6	117.9	2,393.7
45.00	Top - Section 1	0.00	1.09 18.933	31.99 435.62	0.650		0.500	5.00	26.477	17.21	550.7	192.6	3,923.9
50.00		0.00	1.12 19.511	32.97 441.18	0.650		0.500	5.00	25.949	16.87	556.2	188.7	2,032.9
55.00		0.00	1.15 20.050	33.88 437.88	0.650		0.500	5.00	25.421	16.52	559.9	184.8	1,990.5
60.00		0.00	1.18 20.554	34.73 433.89	0.650		0.500	5.00	24.892	16.18	562.0	180.8	1,948.0
65.00	Appertunance(s)	0.00	1.21 21.030	35.54 429.30	0.650		0.500	5.00	24.364	15.84	562.8	176.9	1,905.6
70.00		0.00	1.24 21.480	36.30 424.19	0.650		0.500	5.00	23.835	15.49	562.4	173.0	1,863.2
75.00	Bot - Section 3	0.00	1.26 21.908	37.02 418.61	0.650		0.500	5.00	23.307	15.15	560.9	169.1	1,820.7
80.00		0.00	1.28 22.315	37.71 412.62	0.650		0.500	5.00	23.195	15.08	568.6	168.3	3,243.9
82.00	Top - Section 2	0.00	1.29 22.473	37.98 410.12	0.650		0.500	2.00	9.130	5.93	225.4	66.7	1,276.6
85.00		0.00	1.31 22.705	38.37 414.11	0.650		0.500	3.00	13.537	8.80	337.6	98.6	951.5
90.00		0.00	1.33 23.079	39.00 407.47	0.650		0.500	5.00	22.139	14.39	561.3	160.5	1,554.5
95.00		0.00	1.35 23.438	39.61 400.52	0.650		0.500	5.00	21.610	14.05	556.4	156.5	1,516.4
100.00		0.00	1.37 23.784	40.19 393.28	0.650		0.500	5.00	21.082	13.70	550.8	152.6	1,478.2
105.00		0.00	1.39 24.118	40.76 385.77	0.650		0.500	5.00	20.553	13.36	544.5	148.7	1,440.1
110.00		0.00	1.41 24.441	41.30 378.02	0.650		0.500	5.00	20.025	13.02	537.6	144.8	1,401.9
115.00		0.00	1.42 24.753	41.83 370.03	0.650		0.500	5.00	19.497	12.67	530.1	140.9	1,363.8
120.00	Bot - Section 4	0.00	1.44 25.056	42.34 361.84	0.650		0.500	5.00	18.968	12.33	522.1	137.0	1,325.6
125.00		0.00	1.46 25.350	42.84 353.44	0.650		0.500	5.00	18.700	12.16	520.7	135.0	2,024.6
125.50	Top - Section 3	0.00	1.46 25.379	42.89 352.59	0.650		0.500	0.50	1.841	1.20	51.3	13.5	199.4
130.00	Appertunance(s)	0.00	1.48 25.636	43.32 350.06	0.650		0.500	4.50	16.331	10.62	459.9	118.0	759.4
135.00		0.00	1.49 25.914	43.79 341.32	0.650		0.500	5.00	17.643	11.47	502.2	127.2	819.6
140.00	Appertunance(s)	0.00	1.51 26.184	44.25 332.41	0.650		0.500	5.00	17.115	11.12	492.3	123.3	794.3
145.00		0.00	1.52 26.448	44.69 323.34	0.650		0.500	5.00	16.587	10.78	481.9	119.3	769.0
150.00	Appertunance(s)	0.00	1.54 26.706	45.13 314.12	0.650		0.500	5.00	16.058	10.44	471.1	115.4	743.6
Totals:								150.00			16,189.4	5,048.9	56,127.3

Pole : 302527
 Location : East Haddam, CT
 Height : 150.0 (ft)
 Base Dia : 72.20 (in)
 Top Dia : 36.90 (in)
 Shape : 18 Sides
 Taper : 0.253625 (in/ft)

Code: TIA/EIA-222 Rev F

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Base Elev: 0.000 (ft)



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Load Case: Ice	82.27 mph Wind with Ice	17 Iterations
Gust Response Factor : 1.69		
Dead Load Factor : 1.00		
Wind Load Factor : 1.00		

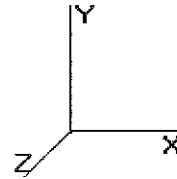
Discrete Appurtenance Segment Forces

Elev (ft)	Description	Qty	qz (psf)	qzGh (psf)	CaAa Factor	Total CaAa (sf)	Horiz Ecc (ft)	Vert Ecc (ft)	Wind FX (lb)	Mom Y (lb-ft)	Mom Z (lb-ft)	Dead Load (lb)
65.00	Flat Side Arm	1	21.030	35.541	1.00	7.00	0.000	0.000	248.78	0.00	0.00	230.00
65.00	GPS	1	21.030	35.541	1.00	1.30	0.000	0.000	46.20	0.00	0.00	18.00
120.0	14" x 9" TTA	3	25.056	42.345	0.50	2.19	0.000	0.000	92.74	0.00	0.00	54.00
120.0	36" x 8" x 6" Panel	3	25.056	42.345	0.88	8.55	0.000	0.000	362.20	0.00	0.00	133.62
120.0	72" x 12" Panels	7	25.056	42.345	0.67	43.29	0.000	0.000	1,833.03	0.00	0.00	645.96
120.0	Andrew DBXNH-	1	25.056	42.345	1.00	9.24	0.000	0.000	391.27	0.00	0.00	96.80
120.0	Commscope SBNH-	1	25.056	42.345	1.00	9.64	0.000	0.000	408.20	0.00	0.00	88.80
120.0	Ericsson RRUS-11 190	6	25.056	42.345	0.67	13.23	0.000	0.000	560.04	0.00	0.00	379.80
120.0	Powerwave LGP21401	6	25.056	42.345	0.50	4.59	0.000	0.000	194.36	0.00	0.00	127.56
120.0	Raycap DC6-48-60-18-	1	25.056	42.345	1.00	1.67	0.000	0.000	70.72	0.00	0.00	49.50
120.0	Round Low Profile PI	1	25.056	42.345	1.00	27.20	0.000	0.000	1,151.77	0.00	0.00	1,700.00
130.0	Antel BXA-171063-8BF	3	25.636	43.324	0.87	7.67	0.000	0.000	332.45	0.00	0.00	89.40
130.0	Antel BXA-70063-6CF-	3	25.636	43.324	0.77	19.73	0.000	0.000	854.67	0.00	0.00	174.00
130.0	Flat Low Profile Pla	1	25.636	43.324	1.00	31.60	0.000	0.000	1,369.05	0.00	0.00	1,700.00
130.0	RFS APL868013-42T0	6	25.636	43.324	0.88	22.65	0.000	0.000	981.35	0.00	0.00	192.00
130.0	RFS FD9R6004/2C-3L	6	25.636	43.324	0.50	1.50	0.000	0.000	64.99	0.00	0.00	32.40
140.0	Decibel DB980F65E-M	12	26.184	44.251	0.83	43.03	0.000	0.000	1,904.02	0.00	0.00	300.00
140.0	Round T-Arms	3	26.184	44.251	0.67	24.32	0.000	0.000	1,076.24	0.00	0.00	942.00
150.0	48" x 12" Panels	9	26.706	45.132	0.67	37.33	0.000	0.000	1,684.60	0.00	0.00	567.00
150.0	72" x 12" Panels	3	26.706	45.132	0.67	18.55	0.000	0.000	837.31	0.00	0.00	276.84
150.0	Flat Low Profile Pla	1	26.706	45.132	1.00	31.60	0.000	0.000	1,426.19	0.00	0.00	1,700.00
									15,890.18			9,497.68

Pole : 302527
 Location : East Haddam, CT
 Height : 150.0 (ft)
 Base Dia : 72.20 (in)
 Top Dia : 36.90 (in)
 Shape : 18 Sides
 Taper : 0.253625 (in/ft)

Code : TIA/EIA-222 Rev F

Base Elev : 0.000 (ft)



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Load Case: Ice

82.27 mph Wind with Ice

17 Iterations

Gust Response Factor : 1.69

Dead Load Factor : 1.00

Wind Load Factor : 1.00

Applied Segment Forces Summary

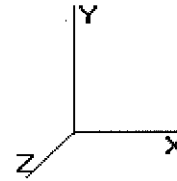
Seg Elev (ft)	Lateral FX (-) (lb)	Axial FY (-) (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)
0.00	0.00	0.00	0.00	0.00
5.00	575.50	2,377.14	0.00	0.00
10.00	565.44	2,334.71	0.00	0.00
15.00	555.38	2,542.43	0.00	0.00
20.00	545.32	2,499.99	0.00	0.00
25.00	535.27	2,457.56	0.00	0.00
30.00	525.21	2,415.13	0.00	0.00
35.00	523.89	2,372.70	0.00	0.00
37.00	210.00	937.67	0.00	0.00
40.00	324.56	2,543.75	0.00	0.00
45.00	550.66	4,174.04	0.00	0.00
50.00	556.16	2,283.04	0.00	0.00
55.00	559.88	2,240.61	0.00	0.00
60.00	562.04	2,198.18	0.00	0.00
65.00	857.82	2,403.74	0.00	0.00
70.00	562.41	2,112.56	0.00	0.00
75.00	560.89	2,070.13	0.00	0.00
80.00	568.59	3,493.34	0.00	0.00
82.00	225.40	1,376.34	0.00	0.00
85.00	337.63	1,101.14	0.00	0.00
90.00	561.26	1,803.93	0.00	0.00
95.00	556.39	1,765.78	0.00	0.00
100.0	550.80	1,727.63	0.00	0.00
105.0	544.54	1,689.47	0.00	0.00
110.0	537.64	1,651.32	0.00	0.00
115.0	530.14	1,613.17	0.00	0.00
120.0	5,586.42	4,851.06	0.00	0.00
125.0	520.75	2,221.51	0.00	0.00
125.5	51.32	219.05	0.00	0.00
130.0	4,062.39	3,124.45	0.00	0.00
135.0	502.24	967.28	0.00	0.00
140.0	3,472.55	2,183.96	0.00	0.00
145.0	481.90	818.15	0.00	0.00
150.0	4,419.18	3,336.68	0.00	0.00
Totals:	32,079.58	71,907.63	0.00	0.00

Pole : 302527
 Location : East Haddam, CT
 Height : 150.0 (ft)
 Base Dia : 72.20 (in)
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Code: TIA/EIA-222 Rev F

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Base Elev: 0.000 (ft)



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Load Case: Ice	82.27 mph Wind with Ice	17 Iterations
Gust Response Factor : 1.69		
Dead Load Factor : 1.00		
Wind Load Factor : 1.00		

Calculated Shaft Forces and Deflections

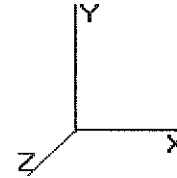
Seg Elev (ft)	Lateral FX (-) (kips)	Axial FY (-) (kips)	Lateral FZ (kips)	Moment MX (ft-kips)	Torsion MY (ft-kips)	Moment MZ (ft-kips)	X Deflect (in)	Z Deflect (in)	Total Deflect (in)	Rotation (deg)
0.00	-32.116	-71.891	0.000	0.000	0.000	-3,385.800	0.000	0.000	0.000	0.000
5.00	-31.608	-69.483	0.000	0.000	0.000	-3,225.222	-0.031	0.000	0.031	-0.057
10.00	-31.106	-67.118	0.000	0.000	0.000	-3,067.183	-0.121	0.000	0.121	-0.114
15.00	-30.609	-64.547	0.000	0.000	0.000	-2,911.655	-0.272	0.000	0.272	-0.171
20.00	-30.117	-62.018	0.000	0.000	0.000	-2,758.613	-0.482	0.000	0.482	-0.228
25.00	-29.630	-59.534	0.000	0.000	0.000	-2,608.031	-0.752	0.000	0.752	-0.285
30.00	-29.149	-57.092	0.000	0.000	0.000	-2,459.882	-1.082	0.000	1.082	-0.343
35.00	-28.648	-54.703	0.000	0.000	0.000	-2,314.139	-1.473	0.000	1.473	-0.400
37.00	-28.459	-53.752	0.000	0.000	0.000	-2,256.844	-1.646	0.000	1.646	-0.424
40.00	-28.156	-51.189	0.000	0.000	0.000	-2,171.470	-1.923	0.000	1.923	-0.458
45.00	-27.616	-46.992	0.000	0.000	0.000	-2,030.695	-2.435	0.000	2.435	-0.515
50.00	-27.081	-44.688	0.000	0.000	0.000	-1,892.617	-3.005	0.000	3.005	-0.572
55.00	-26.537	-42.429	0.000	0.000	0.000	-1,757.215	-3.633	0.000	3.633	-0.625
60.00	-25.986	-40.214	0.000	0.000	0.000	-1,624.533	-4.316	0.000	4.316	-0.677
65.00	-25.133	-37.799	0.000	0.000	0.000	-1,494.604	-5.054	0.000	5.054	-0.729
70.00	-24.574	-35.672	0.000	0.000	0.000	-1,368.942	-5.845	0.000	5.845	-0.780
75.00	-24.012	-33.590	0.000	0.000	0.000	-1,246.075	-6.689	0.000	6.689	-0.829
80.00	-23.409	-30.092	0.000	0.000	0.000	-1,126.015	-7.584	0.000	7.584	-0.877
82.00	-23.175	-28.709	0.000	0.000	0.000	-1,079.197	-7.956	0.000	7.956	-0.897
85.00	-22.838	-27.599	0.000	0.000	0.000	-1,009.674	-8.529	0.000	8.529	-0.925
90.00	-22.268	-25.786	0.000	0.000	0.000	-895.486	-9.524	0.000	9.524	-0.972
95.00	-21.699	-24.014	0.000	0.000	0.000	-784.150	-10.567	0.000	10.567	-1.017
100.0	-21.133	-22.282	0.000	0.000	0.000	-675.657	-11.656	0.000	11.656	-1.059
105.0	-20.570	-20.590	0.000	0.000	0.000	-569.996	-12.787	0.000	12.787	-1.098
110.0	-20.011	-18.938	0.000	0.000	0.000	-467.149	-13.957	0.000	13.957	-1.133
115.0	-19.457	-17.326	0.000	0.000	0.000	-367.097	-15.161	0.000	15.161	-1.164
120.0	-13.777	-12.585	0.000	0.000	0.000	-269.814	-16.394	0.000	16.394	-1.189
125.0	-13.212	-10.373	0.000	0.000	0.000	-200.931	-17.651	0.000	17.651	-1.209
125.5	-13.157	-10.153	0.000	0.000	0.000	-194.325	-17.778	0.000	17.778	-1.211
130.0	-9.031	-7.113	0.000	0.000	0.000	-135.118	-18.927	0.000	18.927	-1.225
135.0	-8.510	-6.155	0.000	0.000	0.000	-89.963	-20.221	0.000	20.221	-1.243
140.0	-4.991	-4.046	0.000	0.000	0.000	-47.414	-21.530	0.000	21.530	-1.255
145.0	-4.492	-3.238	0.000	0.000	0.000	-22.458	-22.849	0.000	22.849	-1.262
150.0	-4.419	0.000	0.000	0.000	0.000	0.000	-24.172	0.000	24.172	-1.264

Pole : 302527
 Location : East Haddam, CT
 Height : 150.0 (ft)
 Base Dia : 72.20 (in)
 Top Dia : 36.90 (in)
 Shape : 18 Sides
 Taper : 0.253625 (in/ft)

Code: TIA/EIA-222 Rev F

Base Elev: 0.000 (ft)

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Load Case: Ice

82.27 mph Wind with Ice

17 Iterations

Gust Response Factor : 1.69

Dead Load Factor : 1.00

Wind Load Factor : 1.00

Calculated Stresses

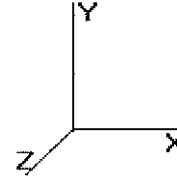
Seg Elev (ft)	Applied Stresses							Allowable Stress (Fb) (ksi)	Stress Ratio	
	Axial (Y) (ksi)	Shear (X) (ksi)	Shear (Z) (ksi)	Torsion (ksi)	Bending (X) (ksi)	Bending (Z) (ksi)	Combined (ksi)			
0.00	0.56	0.51	0.00	0.00	0.00	17.96	18.54	52.0	0.0	0.357
5.00	0.55	0.51	0.00	0.00	0.00	17.73	18.31	52.0	0.0	0.352
10.00	0.54	0.51	0.00	0.00	0.00	17.49	18.06	52.0	0.0	0.347
15.00	0.53	0.51	0.00	0.00	0.00	17.23	17.79	52.0	0.0	0.342
20.00	0.52	0.51	0.00	0.00	0.00	16.96	17.50	52.0	0.0	0.337
25.00	0.51	0.51	0.00	0.00	0.00	16.66	17.20	52.0	0.0	0.331
30.00	0.50	0.51	0.00	0.00	0.00	16.35	16.87	52.0	0.0	0.325
35.00	0.49	0.52	0.00	0.00	0.00	16.01	16.52	52.0	0.0	0.318
37.00	0.48	0.52	0.00	0.00	0.00	15.87	16.38	52.0	0.0	0.315
40.00	0.47	0.52	0.00	0.00	0.00	15.65	16.14	52.0	0.0	0.311
45.00	0.43	0.51	0.00	0.00	0.00	14.71	15.16	52.0	0.0	0.292
50.00	0.42	0.51	0.00	0.00	0.00	14.29	14.74	52.0	0.0	0.284
55.00	0.40	0.51	0.00	0.00	0.00	13.85	14.28	52.0	0.0	0.275
60.00	0.39	0.51	0.00	0.00	0.00	13.38	13.80	52.0	0.0	0.265
65.00	0.38	0.50	0.00	0.00	0.00	12.87	13.28	52.0	0.0	0.255
70.00	0.36	0.50	0.00	0.00	0.00	12.34	12.74	52.0	0.0	0.245
75.00	0.35	0.50	0.00	0.00	0.00	11.78	12.16	52.0	0.0	0.234
80.00	0.32	0.50	0.00	0.00	0.00	11.16	11.52	52.0	0.0	0.222
82.00	0.34	0.56	0.00	0.00	0.00	11.77	12.15	52.0	0.0	0.234
85.00	0.33	0.55	0.00	0.00	0.00	11.34	11.71	52.0	0.0	0.225
90.00	0.32	0.55	0.00	0.00	0.00	10.56	10.93	52.0	0.0	0.210
95.00	0.30	0.55	0.00	0.00	0.00	9.73	10.08	52.0	0.0	0.194
100.00	0.29	0.55	0.00	0.00	0.00	8.83	9.17	52.0	0.0	0.176
105.00	0.27	0.55	0.00	0.00	0.00	7.86	8.19	52.0	0.0	0.158
110.00	0.26	0.55	0.00	0.00	0.00	6.80	7.13	52.0	0.0	0.137
115.00	0.24	0.55	0.00	0.00	0.00	5.66	5.98	52.0	0.0	0.115
120.00	0.18	0.40	0.00	0.00	0.00	4.41	4.64	52.0	0.0	0.089
125.00	0.16	0.40	0.00	0.00	0.00	3.48	3.70	52.0	0.0	0.071
125.50	0.24	0.62	0.00	0.00	0.00	5.19	5.54	52.0	0.0	0.107
130.00	0.17	0.44	0.00	0.00	0.00	3.81	4.06	52.0	0.0	0.078
135.00	0.15	0.43	0.00	0.00	0.00	2.70	2.95	52.0	0.0	0.057
140.00	0.10	0.26	0.00	0.00	0.00	1.52	1.68	52.0	0.0	0.032
145.00	0.09	0.24	0.00	0.00	0.00	0.77	0.95	52.0	0.0	0.018
150.00	0.00	0.25	0.00	0.00	0.00	0.00	0.43	52.0	0.0	0.008

Pole : 302527
 Location : East Haddam, CT
 Height : 150.0 (ft)
 Base Dia : 72.20 (in)
 Top Dia : 36.90 (in)
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Code: TIA/EIA-222 Rev F

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Base Elev : 0.000 (ft)



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Load Case: Twist/Sway	50.00 mph Wind with No Ice	16 Iterations
Gust Response Factor : 1.69		
Dead Load Factor : 1.00		
Wind Load Factor : 1.00		

Shaft Segment Forces

Seg Top Elev (ft)	Description	Kz	qz (psf)	qzGh (psf)	C (mph-ft)	Cf	Ice Thick (in)	Tributary (ft)	Aa (sf)	CfAa (sf)	Wind Force X (lb)	Dead Load Ice (lb)	Tot Dead Load (lb)	
0.00		0.00	1.00	6.400	10.81	300.83	0.650	0.000	0.00	0.000	0.00	0.0	0.0	
5.00		0.00	1.00	6.400	10.81	295.54	0.650	0.000	5.00	29.819	19.38	209.6	0.0	2,156.7
10.00		0.00	1.00	6.400	10.81	290.26	0.650	0.000	5.00	29.291	19.04	205.9	0.0	2,118.2
15.00		0.00	1.00	6.400	10.81	284.98	0.650	0.000	5.00	28.762	18.70	202.2	0.0	2,079.7
20.00		0.00	1.00	6.400	10.81	279.69	0.650	0.000	5.00	28.234	18.35	198.5	0.0	2,041.2
25.00		0.00	1.00	6.400	10.81	274.41	0.650	0.000	5.00	27.705	18.01	194.8	0.0	2,002.6
30.00		0.00	1.00	6.400	10.81	269.12	0.650	0.000	5.00	27.177	17.67	191.1	0.0	1,964.1
35.00		0.00	1.01	6.509	10.99	266.07	0.650	0.000	5.00	26.649	17.32	190.5	0.0	1,925.6
37.00	Bot - Section 2	0.00	1.03	6.613	11.17	266.04	0.650	0.000	2.00	10.512	6.83	76.4	0.0	759.5
40.00		0.00	1.05	6.762	11.42	265.76	0.650	0.000	3.00	15.890	10.33	118.0	0.0	2,275.8
45.00	Top - Section 1	0.00	1.09	6.993	11.81	264.75	0.650	0.000	5.00	26.061	16.94	200.2	0.0	3,731.3
50.00		0.00	1.12	7.207	12.17	268.13	0.650	0.000	5.00	25.532	16.60	202.1	0.0	1,844.2
55.00		0.00	1.15	7.406	12.51	266.12	0.650	0.000	5.00	25.004	16.25	203.4	0.0	1,805.7
60.00		0.00	1.18	7.592	12.83	263.69	0.650	0.000	5.00	24.475	15.91	204.1	0.0	1,767.2
65.00	Appertunance(s)	0.00	1.21	7.768	13.12	260.91	0.650	0.000	5.00	23.947	15.57	204.3	0.0	1,728.7
70.00		0.00	1.24	7.934	13.40	257.80	0.650	0.000	5.00	23.419	15.22	204.1	0.0	1,690.1
75.00	Bot - Section 3	0.00	1.26	8.092	13.67	254.41	0.650	0.000	5.00	22.890	14.88	203.5	0.0	1,651.6
80.00		0.00	1.28	8.242	13.93	250.77	0.650	0.000	5.00	22.779	14.81	206.2	0.0	3,075.7
82.00	Top - Section 2	0.00	1.29	8.301	14.02	249.25	0.650	0.000	2.00	8.964	5.83	81.7	0.0	1,209.9
85.00		0.00	1.31	8.387	14.17	251.67	0.650	0.000	3.00	13.287	8.64	122.4	0.0	852.9
90.00		0.00	1.33	8.525	14.40	247.64	0.650	0.000	5.00	21.722	14.12	203.4	0.0	1,394.1
95.00		0.00	1.35	8.657	14.63	243.42	0.650	0.000	5.00	21.193	13.78	201.6	0.0	1,359.8
100.00		0.00	1.37	8.785	14.84	239.01	0.650	0.000	5.00	20.665	13.43	199.4	0.0	1,325.6
105.00		0.00	1.39	8.908	15.05	234.45	0.650	0.000	5.00	20.137	13.09	197.1	0.0	1,291.4
110.00		0.00	1.41	9.028	15.25	229.74	0.650	0.000	5.00	19.608	12.75	194.5	0.0	1,257.1
115.00		0.00	1.42	9.143	15.45	224.89	0.650	0.000	5.00	19.080	12.40	191.6	0.0	1,222.9
120.00	Bot - Section 4	0.00	1.44	9.255	15.64	219.91	0.650	0.000	5.00	18.552	12.06	188.6	0.0	1,188.6
125.00		0.00	1.46	9.363	15.82	214.80	0.650	0.000	5.00	18.284	11.88	188.1	0.0	1,889.6
125.50	Top - Section 3	0.00	1.46	9.374	15.84	214.28	0.650	0.000	0.50	1.799	1.17	18.5	0.0	185.9
130.00	Appertunance(s)	0.00	1.48	9.469	16.00	212.75	0.650	0.000	4.50	15.956	10.37	166.0	0.0	641.5
135.00		0.00	1.49	9.572	16.17	207.44	0.650	0.000	5.00	17.227	11.20	181.1	0.0	692.4
140.00	Appertunance(s)	0.00	1.51	9.672	16.34	202.02	0.650	0.000	5.00	16.698	10.85	177.4	0.0	671.0
145.00		0.00	1.52	9.769	16.51	196.51	0.650	0.000	5.00	16.170	10.51	173.5	0.0	649.6
150.00	Appertunance(s)	0.00	1.54	9.864	16.67	190.90	0.650	0.000	5.00	15.642	10.17	169.5	0.0	628.2
Totals:								150.00			5,869.4	0.0	51,078.4	

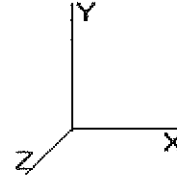
Pole : 302527
 Location : East Haddam, CT
 Height : 150.0 (ft)
 Base Dia : 72.20 (in)
 Top Dia : 36.90 (in)
 Shape : 18 Sides
 Taper : 0.253625 (in/ft)

Code: TIA/EIA-222 Rev F

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Base Elev: 0.000 (ft)

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Load Case: Twist/Sway 50.00 mph Wind with No Ice 16 Iterations

Gust Response Factor : 1.69
 Dead Load Factor : 1.00
 Wind Load Factor : 1.00

Discrete Appurtenance Segment Forces

Elev (ft)	Description	Qty	qz (psf)	qzGh (psf)	CaAa Factor	Total CaAa (sf)	Horiz Ecc (ft)	Vert Ecc (ft)	Wind FX (lb)	Mom Y (lb-ft)	Mom Z (lb-ft)	Dead Load (lb)
65.00	Flat Side Arm	1	7.768	13.127	1.00	6.30	0.000	0.000	82.70	0.00	0.00	150.00
65.00	GPS	1	7.768	13.127	1.00	1.00	0.000	0.000	13.13	0.00	0.00	10.00
120.0	14" x 9" TTA	3	9.255	15.641	0.50	1.85	0.000	0.000	28.86	0.00	0.00	30.00
120.0	36" x 8" x 6" Panel	3	9.255	15.641	0.88	7.39	0.000	0.000	115.62	0.00	0.00	75.00
120.0	72" x 12" Panels	7	9.255	15.641	0.67	39.40	0.000	0.000	616.18	0.00	0.00	315.00
120.0	Andrew DBXNH-	1	9.255	15.641	1.00	8.41	0.000	0.000	131.54	0.00	0.00	46.30
120.0	Commscope SBNH-	1	9.255	15.641	1.00	8.92	0.000	0.000	139.52	0.00	0.00	39.70
120.0	Ericsson RRUS-11 190	6	9.255	15.641	0.67	11.82	0.000	0.000	184.85	0.00	0.00	264.00
120.0	Powerwave LGP21401	6	9.255	15.641	0.50	3.87	0.000	0.000	60.53	0.00	0.00	84.60
120.0	Raycap DC6-48-60-18-	1	9.255	15.641	1.00	1.47	0.000	0.000	22.99	0.00	0.00	31.80
120.0	Round Low Profile Pl	1	9.255	15.641	1.00	21.70	0.000	0.000	339.40	0.00	0.00	1,500.00
130.0	Antel BXA-171063-8BF	3	9.469	16.003	0.87	7.67	0.000	0.000	122.79	0.00	0.00	31.50
130.0	Antel BXA-70063-6CF-	3	9.469	16.003	0.77	17.86	0.000	0.000	285.75	0.00	0.00	51.00
130.0	Flat Low Profile Pla	1	9.469	16.003	1.00	26.10	0.000	0.000	417.67	0.00	0.00	1,500.00
130.0	RFS APL868013-42T0	6	9.469	16.003	0.88	19.69	0.000	0.000	315.16	0.00	0.00	37.80
130.0	RFS FD9R6004/2C-3L	6	9.469	16.003	0.50	1.08	0.000	0.000	17.28	0.00	0.00	18.60
140.0	Decibel DB980F65E-M	12	9.672	16.345	0.81	36.45	0.000	0.000	595.78	0.00	0.00	114.00
140.0	Round T-Arms	3	9.672	16.345	0.67	19.50	0.000	0.000	318.68	0.00	0.00	750.00
150.0	48" x 12" Panels	9	9.864	16.670	0.67	33.77	0.000	0.000	562.93	0.00	0.00	270.00
150.0	72" x 12" Panels	3	9.864	16.670	0.67	16.88	0.000	0.000	281.46	0.00	0.00	135.00
150.0	Flat Low Profile Pla	1	9.864	16.670	1.00	26.10	0.000	0.000	435.10	0.00	0.00	1,500.00
									5,087.90			6,954.30

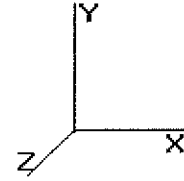
Pole : 302527
 Location : East Haddam, CT
 Height : 150.0 (ft)
 Base Dia : 72.20 (in)
 Top Dia : 36.90 (in)
 Shape : 18 Sides
 Taper : 0.253625 (in/ft)

Code: TIA/EIA-222 Rev F

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Base Elev : 0.000 (ft)

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Load Case: Twist/Sway 50.00 mph Wind with No Ice 16 Iterations

Gust Response Factor : 1.69
 Dead Load Factor : 1.00
 Wind Load Factor : 1.00

Applied Segment Forces Summary

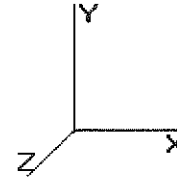
Seg Elev (ft)	Lateral FX (-) (lb)	Axial FY (-) (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)
0.00	0.00	0.00	0.00	0.00
5.00	209.64	2,156.72	0.00	0.00
10.00	205.92	2,118.20	0.00	0.00
15.00	202.21	2,329.83	0.00	0.00
20.00	198.50	2,291.31	0.00	0.00
25.00	194.78	2,252.79	0.00	0.00
30.00	191.07	2,214.28	0.00	0.00
35.00	190.53	2,175.76	0.00	0.00
37.00	76.36	859.52	0.00	0.00
40.00	118.03	2,425.85	0.00	0.00
45.00	200.19	3,981.46	0.00	0.00
50.00	202.13	2,094.37	0.00	0.00
55.00	203.41	2,055.85	0.00	0.00
60.00	204.12	2,017.33	0.00	0.00
65.00	300.17	2,138.81	0.00	0.00
70.00	204.10	1,939.54	0.00	0.00
75.00	203.47	1,901.02	0.00	0.00
80.00	206.25	3,325.06	0.00	0.00
82.00	81.73	1,309.65	0.00	0.00
85.00	122.41	1,002.52	0.00	0.00
90.00	203.41	1,643.48	0.00	0.00
95.00	201.55	1,609.24	0.00	0.00
100.0	199.43	1,575.00	0.00	0.00
105.0	197.06	1,540.76	0.00	0.00
110.0	194.45	1,506.52	0.00	0.00
115.0	191.63	1,472.28	0.00	0.00
120.0	1,828.09	3,824.44	0.00	0.00
125.0	188.06	2,086.52	0.00	0.00
125.5	18.53	205.59	0.00	0.00
130.0	1,324.62	2,457.58	0.00	0.00
135.0	181.13	840.11	0.00	0.00
140.0	1,091.86	1,682.71	0.00	0.00
145.0	173.53	698.81	0.00	0.00
150.0	1,448.98	2,582.42	0.00	0.00
Totals:	10,957.32	64,315.36	0.00	0.00

Pole : 302527
 Location : East Haddam, CT
 Height : 150.0 (ft)
 Base Dia : 72.20 (in)
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Code: TIA/EIA-222 Rev F

Base Elev : 0.000 (ft)

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Load Case: Twist/Sway	50.00 mph Wind with No Ice	16 Iterations
Gust Response Factor : 1.69		
Dead Load Factor : 1.00		
Wind Load Factor : 1.00		

Calculated Shaft Forces and Deflections

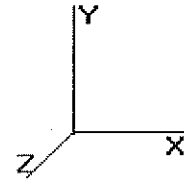
Seg Elev (ft)	Lateral FX (-) (kips)	Axial FY (-) (kips)	Lateral FZ (kips)	Moment MX (ft-kips)	Torsion MY (ft-kips)	Moment MZ (ft-kips)	X Deflect (in)	Z Deflect (in)	Total Deflect (in)	Rotation (deg)
0.00	-10.967	-64.313	0.000	0.000	0.000	-1,133.195	0.000	0.000	0.000	0.000
5.00	-10.778	-62.153	0.000	0.000	0.000	-1,078.359	-0.010	0.000	0.010	-0.019
10.00	-10.591	-60.032	0.000	0.000	0.000	-1,024.470	-0.041	0.000	0.041	-0.038
15.00	-10.406	-57.698	0.000	0.000	0.000	-971.516	-0.091	0.000	0.091	-0.057
20.00	-10.223	-55.404	0.000	0.000	0.000	-919.486	-0.161	0.000	0.161	-0.076
25.00	-10.043	-53.148	0.000	0.000	0.000	-868.370	-0.251	0.000	0.251	-0.095
30.00	-9.865	-50.931	0.000	0.000	0.000	-818.156	-0.362	0.000	0.362	-0.114
35.00	-9.681	-48.753	0.000	0.000	0.000	-768.833	-0.492	0.000	0.492	-0.133
37.00	-9.611	-47.892	0.000	0.000	0.000	-749.472	-0.549	0.000	0.549	-0.141
40.00	-9.498	-45.464	0.000	0.000	0.000	-720.640	-0.642	0.000	0.642	-0.153
45.00	-9.301	-41.480	0.000	0.000	0.000	-673.149	-0.812	0.000	0.812	-0.172
50.00	-9.104	-39.384	0.000	0.000	0.000	-626.647	-1.002	0.000	1.002	-0.190
55.00	-8.905	-37.326	0.000	0.000	0.000	-581.126	-1.211	0.000	1.211	-0.208
60.00	-8.704	-35.307	0.000	0.000	0.000	-536.601	-1.439	0.000	1.439	-0.225
65.00	-8.405	-33.167	0.000	0.000	0.000	-493.082	-1.684	0.000	1.684	-0.242
70.00	-8.201	-31.226	0.000	0.000	0.000	-451.059	-1.947	0.000	1.947	-0.259
75.00	-7.997	-29.323	0.000	0.000	0.000	-410.053	-2.227	0.000	2.227	-0.275
80.00	-7.779	-25.998	0.000	0.000	0.000	-370.068	-2.524	0.000	2.524	-0.291
82.00	-7.694	-24.688	0.000	0.000	0.000	-354.509	-2.648	0.000	2.648	-0.298
85.00	-7.572	-23.684	0.000	0.000	0.000	-331.426	-2.838	0.000	2.838	-0.307
90.00	-7.365	-22.040	0.000	0.000	0.000	-293.567	-3.168	0.000	3.168	-0.322
95.00	-7.160	-20.430	0.000	0.000	0.000	-256.741	-3.514	0.000	3.514	-0.337
100.0	-6.955	-18.855	0.000	0.000	0.000	-220.944	-3.874	0.000	3.874	-0.351
105.0	-6.752	-17.314	0.000	0.000	0.000	-186.169	-4.249	0.000	4.249	-0.363
110.0	-6.551	-15.807	0.000	0.000	0.000	-152.408	-4.636	0.000	4.636	-0.375
115.0	-6.352	-14.335	0.000	0.000	0.000	-119.654	-5.034	0.000	5.034	-0.385
120.0	-4.499	-10.523	0.000	0.000	0.000	-87.895	-5.442	0.000	5.442	-0.393
125.0	-4.297	-8.437	0.000	0.000	0.000	-65.399	-5.858	0.000	5.858	-0.400
125.5	-4.278	-8.232	0.000	0.000	0.000	-63.250	-5.900	0.000	5.900	-0.400
130.0	-2.936	-5.783	0.000	0.000	0.000	-44.001	-6.280	0.000	6.280	-0.405
135.0	-2.750	-4.944	0.000	0.000	0.000	-29.318	-6.707	0.000	6.707	-0.411
140.0	-1.646	-3.269	0.000	0.000	0.000	-15.569	-7.140	0.000	7.140	-0.415
145.0	-1.468	-2.572	0.000	0.000	0.000	-7.338	-7.576	0.000	7.576	-0.417
150.0	-1.449	0.000	0.000	0.000	0.000	0.000	-8.013	0.000	8.013	-0.418

Pole : 302527
 Location : East Haddam, CT
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 Taper : 0.253625 (in/ft)

Code: TIA/EIA-222 Rev F

Base Elev : 0.000 (ft)

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Load Case: Twist/Sway 50.00 mph Wind with No Ice 16 Iterations

Gust Response Factor : 1.69
 Dead Load Factor : 1.00
 Wind Load Factor : 1.00

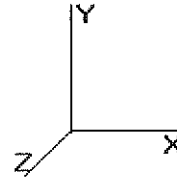
Calculated Stresses

Seg Elev (ft)	Applied Stresses							Allowable Stress (Fb) (ksi)	Stress Ratio	
	Axial (Y) (ksi)	Shear (X) (ksi)	Shear (Z) (ksi)	Torsion (ksi)	Bending (X) (ksi)	Bending (Z) (ksi)	Combined (ksi)			
0.00	0.50	0.17	0.00	0.00	0.00	6.01	6.52	52.0	0.0	0.125
5.00	0.49	0.17	0.00	0.00	0.00	5.93	6.43	52.0	0.0	0.124
10.00	0.49	0.17	0.00	0.00	0.00	5.84	6.34	52.0	0.0	0.122
15.00	0.48	0.17	0.00	0.00	0.00	5.75	6.23	52.0	0.0	0.120
20.00	0.47	0.17	0.00	0.00	0.00	5.65	6.13	52.0	0.0	0.118
25.00	0.46	0.17	0.00	0.00	0.00	5.55	6.01	52.0	0.0	0.116
30.00	0.45	0.17	0.00	0.00	0.00	5.44	5.89	52.0	0.0	0.113
35.00	0.44	0.17	0.00	0.00	0.00	5.32	5.76	52.0	0.0	0.111
37.00	0.43	0.17	0.00	0.00	0.00	5.27	5.71	52.0	0.0	0.110
40.00	0.41	0.17	0.00	0.00	0.00	5.19	5.62	52.0	0.0	0.108
45.00	0.38	0.17	0.00	0.00	0.00	4.88	5.26	52.0	0.0	0.101
50.00	0.37	0.17	0.00	0.00	0.00	4.73	5.11	52.0	0.0	0.098
55.00	0.36	0.17	0.00	0.00	0.00	4.58	4.95	52.0	0.0	0.095
60.00	0.34	0.17	0.00	0.00	0.00	4.42	4.77	52.0	0.0	0.092
65.00	0.33	0.17	0.00	0.00	0.00	4.25	4.59	52.0	0.0	0.088
70.00	0.32	0.17	0.00	0.00	0.00	4.07	4.40	52.0	0.0	0.085
75.00	0.31	0.17	0.00	0.00	0.00	3.88	4.19	52.0	0.0	0.081
80.00	0.28	0.17	0.00	0.00	0.00	3.67	3.96	52.0	0.0	0.076
82.00	0.29	0.18	0.00	0.00	0.00	3.87	4.17	52.0	0.0	0.080
85.00	0.29	0.18	0.00	0.00	0.00	3.72	4.02	52.0	0.0	0.077
90.00	0.27	0.18	0.00	0.00	0.00	3.46	3.75	52.0	0.0	0.072
95.00	0.26	0.18	0.00	0.00	0.00	3.19	3.46	52.0	0.0	0.067
100.00	0.25	0.18	0.00	0.00	0.00	2.89	3.15	52.0	0.0	0.061
105.00	0.23	0.18	0.00	0.00	0.00	2.57	2.82	52.0	0.0	0.054
110.00	0.22	0.18	0.00	0.00	0.00	2.22	2.46	52.0	0.0	0.047
115.00	0.20	0.18	0.00	0.00	0.00	1.84	2.07	52.0	0.0	0.040
120.00	0.15	0.13	0.00	0.00	0.00	1.44	1.60	52.0	0.0	0.031
125.00	0.13	0.13	0.00	0.00	0.00	1.13	1.28	52.0	0.0	0.025
125.50	0.19	0.20	0.00	0.00	0.00	1.69	1.92	52.0	0.0	0.037
130.00	0.14	0.14	0.00	0.00	0.00	1.24	1.40	52.0	0.0	0.027
135.00	0.12	0.14	0.00	0.00	0.00	0.88	1.03	52.0	0.0	0.020
140.00	0.08	0.09	0.00	0.00	0.00	0.50	0.60	52.0	0.0	0.012
145.00	0.07	0.08	0.00	0.00	0.00	0.25	0.35	52.0	0.0	0.007
150.00	0.00	0.08	0.00	0.00	0.00	0.00	0.14	52.0	0.0	0.003

Pole : 302527
 Location : East Haddam, CT
 Height : 150.0 (ft)
 Base Dia : 72.20 (in)
 Top Dia : 36.90 (in)
 Shape : 18 Sides
 Taper : 0.253625 (in/ft)

Code: TIA/EIA-222 Rev F

Base Elev : 0.000 (ft)



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Analysis Summary

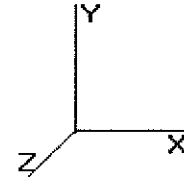
Load Case	Reactions						Max Stresses			
	Shear FX (kips)	Shear FZ (kips)	Axial FY (kips)	Moment MX (ft-kips)	Moment MY (ft-kips)	Moment MZ (ft-kips)	Combined Stress (ksi)	Allowable Stress (ksi)	Elev (ft)	Stress Ratio
No Ice	39.6	0.00	64.29	0.00	0.00	4090.71	22.23	52.0	0.00	0.428
Ice	32.1	0.00	71.89	0.00	0.00	3385.80	18.54	52.0	0.00	0.357
Twist/Sway	11.0	0.00	64.31	0.00	0.00	1133.20	6.52	52.0	0.00	0.125

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Code: TIA/EIA-222 Rev F

Base Elev : 0.000 (ft)

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Base Summary

Reactions

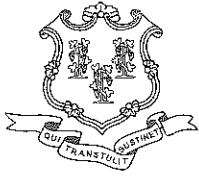
Original Design			Analysis			Moment Design %
Moment (kip-ft)	Axial (kip)	Shear (kip)	Moment (kip-ft)	Axial (kip)	Shear (kip)	
9,100.00	79.00	69.00	4,090.71	71.89	39.60	44.95

Base Plate

Yield (ksi)	Thick (in)	Width (in)	Style	Poly Sides	Clip Len (in)	Effective Len (in)	Moment (kip-in)	Allow Stress (ksi)	Applied Stress (ksi)	Stress Ratio
55.0	3.500	81.000	Clipped	0	20.00	8.184	351.90	55.00	21.06	0.38

Anchor Bolts

Bolt Circle	Num Bolts	Bolt Type	Bolt Dia (in)	Yield (ksi)	Ultimate (ksi)	Cluster Arrange	Cluster Dist (in)	Start Angle (deg)	Compression			Tension		
									Force (kip)	Allow (kip)	Ratio	Force (kip)	Allow (kip)	Ratio
80.00	28	2.25" 18J	2.25	75.00	100.00	Clustered	5.00	45.0	90.23	195.00	0.46	85.09	195.00	0.44



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

May 29, 2013

The Honorable Mark B. Walter
First Selectman
Town of East Haddam
Town Office Building
P. O. Box K
East Haddam, CT 06423

RE: **EM-VER-041-130524** - Cellco Partnership d/b/a Verizon Wireless notice of intent to modify an existing telecommunications facility located at 135 Honey Hill Road, East Haddam, Connecticut.

Dear First Selectman Walter:

The Connecticut Siting Council (Council) received a request to modify an existing telecommunications facility, pursuant to Regulations of Connecticut State Agencies Section 16-50j-72, a copy of which has already been provided to you.

If you have any questions or comments regarding the proposal, please call me or inform the Council by June 12, 2013.

Thank you for your cooperation and consideration.

Very truly yours,

Melanie Bachman
Acting Executive Director

MB/jb

c: Crary H. Brownell, Chm, Planning and Zoning Comm, Town of East Haddam