

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 4, 2010

Kenneth C. Baldwin, Esq.
Robinson & Cole LLP
280 Trumbull Street
Hartford, CT 06103-3597

RE: **EM-VER-158-100216** – Cellco Partnership d/b/a Verizon Wireless notice of intent to modify an existing telecommunications facility located at Bayberry Lane, Westport, 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.

The proposed modifications are to be implemented as specified here and in your notice dated February 16, 2010 and additional information received on March 4, 2010, and May 4, 2010, including the placement of all necessary equipment and shelters within the tower compound. 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. Any deviation from this format may result in the Council implementing enforcement proceedings pursuant to General Statutes § 16-50u including, without limitation, imposition of expenses resulting from such failure and of civil penalties in an amount not less than one thousand dollars per day for each day of construction or operation in material violation.

Thank you for your attention and cooperation.

Very truly yours,

S. Derek Phelps
Executive Director

SDP/MP/laf

c: The Honorable Gordon F. Joseloff, First Selectman, Town of Westport
Laurence Bradley, Director, Planning & Zoning, Town of Westport
American Tower Corporation

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Phone: (860) 827-2935 Fax: (860) 827-2950

E-Mail: siting.council@ct.gov

Internet: ct.gov/csc

Daniel F. Caruso
Chairman

April 23, 2010

The Honorable Gordon F. Joseloff
First Selectman
Town of Westport
Town Hall
110 Myrtle Avenue
Westport, CT 06880

RE: **EM-VER-158-100216**- Cellco Partnership d/b/a Verizon Wireless notice of intent to modify an existing telecommunications facility located at Bayberry Lane, Westport, Connecticut.

Dear First Selectman Joseloff:

The Connecticut Siting Council (Council) received this request to modify an existing telecommunications facility, pursuant to Regulations of Connecticut State Agencies Section 16-50j-72.

If you have any questions or comments regarding this proposal, please call me or inform the Council by April 30, 2010.

Thank you for your cooperation and consideration.

Very truly yours,

S. Derek Phelps
Executive Director

SDP/jbw

Enclosure: Notice of Intent

c: Laurence Bradley, Director, Planning & Zoning, Town of Westport

Perrone, Michael

From: Mayo, Rachel [rmayo@RC.com]
Sent: Tuesday, May 04, 2010 4:02 PM
To: Perrone, Michael
Cc: Baldwin, Kenneth; Mayo, Rachel
Subject: Westport-Bayberry Lane

Mike, as requested I looked at the revised structural and the antenna information shown in the "proposed antennas" table is correct.

there are 12 antennas there now- 6 cellular (DB844H80-XY) and 6 pcs (932DG65T2E-M). Verizon will remove 3 pcs (932DG65T2E-M) and replace with 3 P65-16-XL-2 LTE antennas...the 6 DB844H80-XY's will remain.

the table in the structural report lists the proposed antenna configuration post antenna swap.

please let me know if you need anything further.

Rachel A. Mayo
Land Use Analyst

Robinson & Cole LLP
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Perrone, Michael

From: Mayo, Rachel [rmayo@RC.com]
Sent: Thursday, March 04, 2010 2:48 PM
To: Perrone, Michael
Cc: Baldwin, Kenneth; Mayo, Rachel
Subject: Westport 2- Bayberry Lane
Attachments: STAMPED PDF.Verizon @ 310968 WSPT-Westport Rebuild CT, CT (#44309523).Structural Analysis (70%).pdf

mike, as discussed, here is a copy of the revised structural report for the Westport- Bayberry Lane site that we filed with your office on February 16th.

the structural we filed on the 16th incorrectly noted the number of proposed cellular (DB844H80E-XY) antennas would be 3 when it should have said 6...that is the only difference.

please let us know if you have any questions.

thanks, rachel

Rachel A. Mayo
Land Use Analyst

Robinson & Cole LLP
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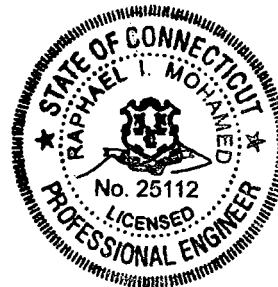
AMERICAN TOWER

Structural Analysis Report

Structure : 140 ft PennSummit Monopole
ATC Site Name : WSPT-Westport Rebuild CT, CT
ATC Site Number : 310968
Proposed Carrier : Verizon
Carrier Site Name : Westport 2
Carrier Site Number : N/A
County : Fairfield
Eng. Number : 44309523
Date : February 25, 2010*
Usage : 70%
Portholes Required : No

Submitted by:
Christina Minor
Design Engineer

American Tower Engineering Services
400 Regency Forest Drive
Cary, NC 27518
Phone: 919-468-0112



2/26/10

Introduction

The purpose of this report is to summarize results of the structural analysis performed on the 140 ft PennSummit Monopole located east of the intersection of Merritt Parkway and Bayberry Lane, Westport, CT 06880, Fairfield County (ATC site #310968). The tower was originally designed and manufactured by PennSummit (PJF Job #29204-0171, dated July 1, 2004).

Analysis

The tower was analyzed using Semaan Engineering Solutions, Inc., Software. The analysis assumes that the tower is in good, undamaged, and non-corroded condition.

Basic Wind Speed: 85 mph (Fastest Mile)
 Radial Ice: 74 mph (Fastest Mile) w/ 1/2" ice
 Code: TIA/EIA-222-F / 2003 IBC Criteria per Section 1609.1.1, Exception (5) and Section 3108.4 w/ 2005 CT Supplement and 2008 CT Amendments

Antenna Loads

The following antenna loads were used in the tower analysis.

Existing Antennas

Elev. (ft)	Qty	Antennas	Mount	Coax	Carrier
138.0	3	6' Omni	Platform w/ Handrails	(3) 1 5/8"	Westport Fire Dept.
	2	8' Omni		(2) 7/8"	
	1	6' Dipole		(1) 7/8"	
	1	8' FM Antenna		(2) 7/8"	
	2	6' Omni		(2) 7/8"	US Treasury
131.0	3	KMW AM-X-WM-17-65-00T	Low Profile Platform	(6) 1 1/4"	Sprint Nextel
	3	KMW KMDAPS2020000		-	
120.0	12	48" x 8" Panel	Low Profile Platform	(12) 1 1/4"	
100.0	12	14" x 9" TTA	Low Profile Platform	-	AT&T Mobility
	6	Diplexer		(1) 0.315"	
	6	56" x 6" Panel		(12) 1 5/8"	
87.0	3	RFS ATMAA1412D-1A20	Low Profile Platform	-	T-Mobile
	3	Andrew ETW190VS12UB		-	
	3	RFS APX16DWV-16DWV-S-E-ACU		(12) 1 5/8"	

Proposed Antennas

Elev. (ft)	Qty	Antennas	Mount	Coax	Carrier
76.0	3	Powerwave P65-16-XL-2	Low Profile Platform	(3) 1 5/8"	Verizon
	3	Andrew 932DG65T2E-M		(6) 1 5/8"	
	6	Andrew DB844H80E-XY		(3) 1 5/8"	

Install proposed coax inside of monopole.

Results

The maximum structure usage is: 70%

Additional exit and/or entry ports may be required to accommodate the running of the proposed lines to the proposed antennas. These additional ports **may not** be installed without installation drawings providing the location, size and welding requirements of each port.

To ensure compliance with all conditions of this structural analysis, port installation drawings shall be provided by American Tower's Engineering Department under a subsequent project.

Pole Reactions	Original Design Reactions	Current Analysis Reactions	% Of Design
Moment (ft-kips)	3,550.0	2,410.9	68
Shear (kips)	35.0	25.6	73

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

Conclusion

Based on the analysis results, the structure meets the requirements per TIA/EIA-222-F and 2003 IBC standards with 2005 CT supplement and 2008 CT amendments.

The tower and foundation can support the existing and proposed antennas with the TX line distribution as described in this report.

If you have any questions or require additional information, please call 919-466-5619.

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, the antenna 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 Engineering 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 are in an un-corroded condition and have not deteriorated; and we, therefore, assume that their capacity has not significantly changed from the "as new" condition.

All services will be performed to the codes specified by the client, and we do not imply to meet any other codes or requirements unless explicitly agreed in writing. 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. In the absence of information to the contrary, all work will be performed in accordance with the latest relevant revision of ANSI/EIA-222.

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

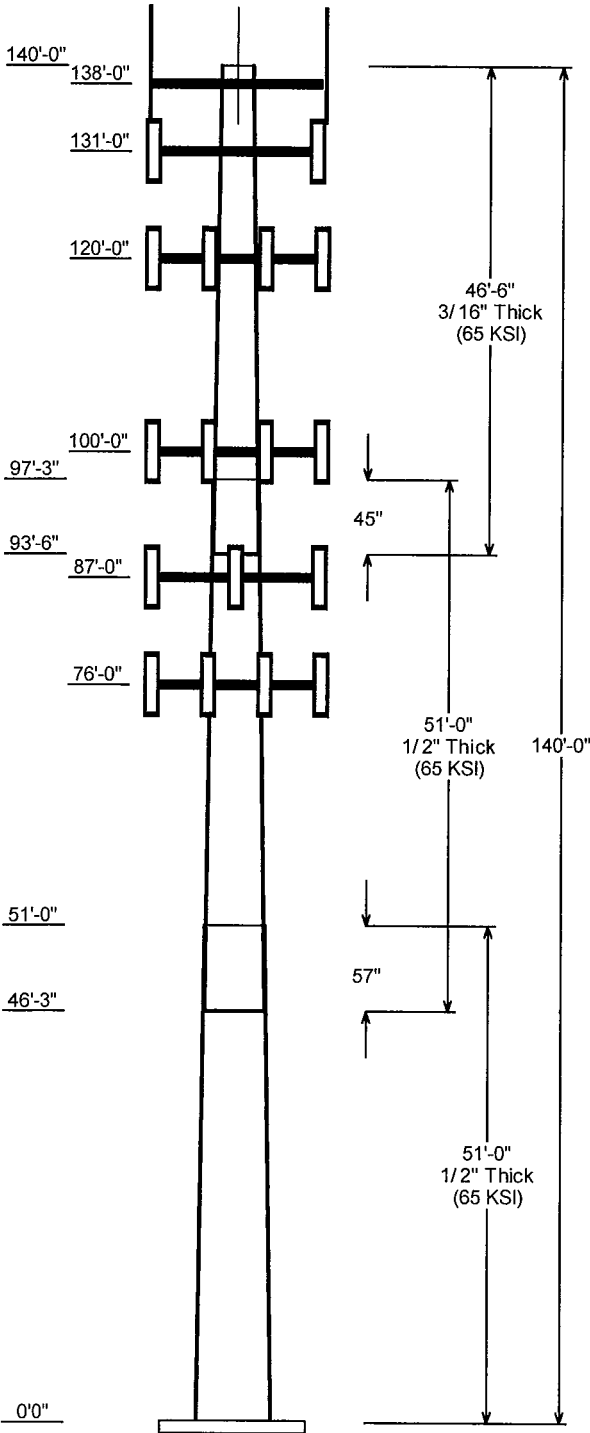
Job Information	
Pole :	310968
Code:	TIA/EIA-222 Rev F
Description :	140 ft PennSummit Monopole
Client :	Verizon
Location :	WSPT-Westport Rebuild CT, CT
Shape :	18 Sides
Base Elev (ft):	0.00
Height :	140.00 (ft)
Taper:	0.200036(in/ft)

Sections Properties								
Shaft Section	Length (ft)	Diameter (in)		Thick Joint (in)	Type	Overlap Length (in)	Taper (in/ft)	Steel Grade (ksi)
		Across Top	Flats Bottom					
1	51.000	36.92	47.13	0.500		0.000	0.200036	65
2	51.000	28.67	38.87	0.500	Slip Joint	57.000	0.200036	65
3	46.500	20.50	29.80	0.188	Slip Joint	45.000	0.200036	65

Discrete Appurtenance			
Attach Elev (ft)	Force Elev (ft)	Qty	Description
138.000	138.000	1	Flat Platform w/ Handrails
138.000	138.000	3	6' Omni
138.000	138.000	2	8' Omni
138.000	138.000	2	6' Omni
138.000	142.000	1	8' FM Antenna
138.000	138.000	1	6' Dipole
131.000	131.000	1	Flat Low Profile Platform
131.000	131.000	3	KMW AM-X-WM-17-65-00T
131.000	131.000	3	KMW KMDAPS2020000
120.000	120.000	1	Flat Low Profile Platform
120.000	120.000	12	48" x 8" Panel
100.000	100.000	12	14" x 9" TTA
100.000	100.000	6	Diplexer
100.000	100.000	1	Flat Low Profile Platform
100.000	100.000	6	56" x 6" Panel
87.000	87.000	3	RFS ATMAA1412D-1A20
87.000	87.000	3	Andrew ETW190VS12UB
87.000	87.000	3	RFS APX16DWV-16DWV-S-E
87.000	87.000	1	Flat Low Profile Platform
76.000	76.000	6	Andrew DB844H80E-XY
76.000	76.000	3	Andrew 932DG65T2E-M
76.000	76.000	3	Powerwave P65-16-XL-2
76.000	76.000	1	Flat Low Profile Platform

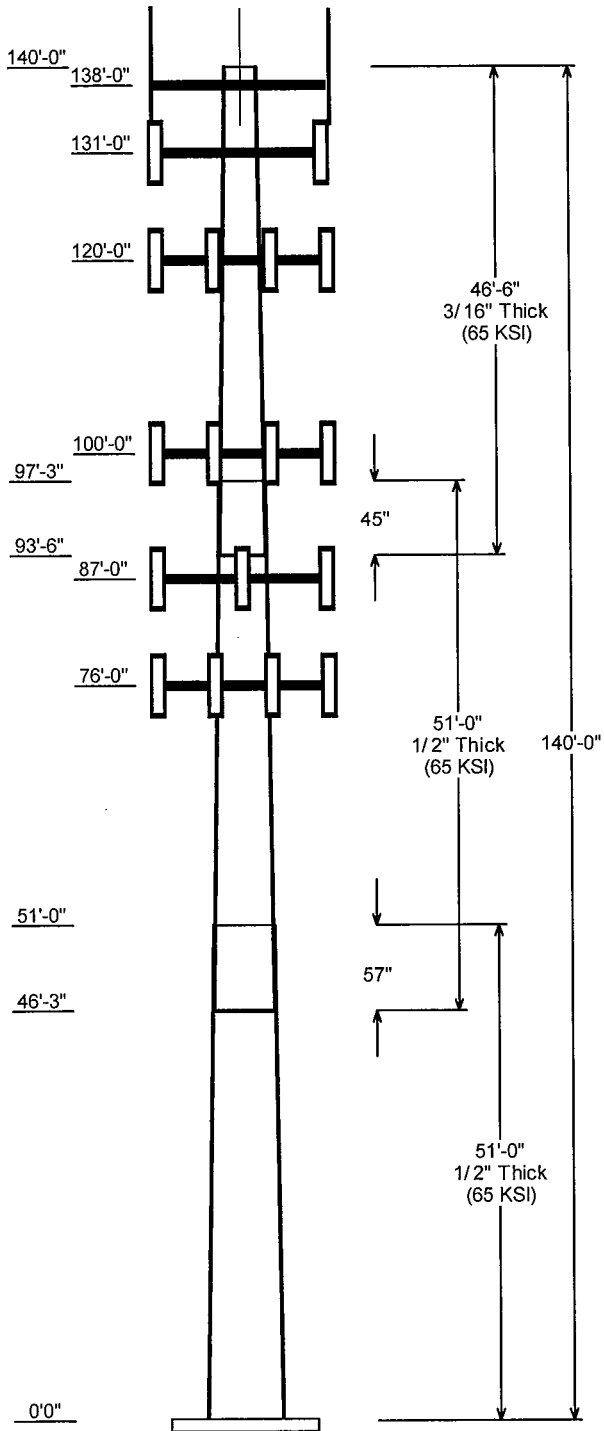
Linear Appurtenance			
Elev (ft) From	To	Description	Exposed To Wind
0.000	76.000	1 5/8" Coax	No
0.000	87.000	1 5/8" Coax	Yes
0.000	100.0	0.315" Coax	No
0.000	100.0	1 5/8" Coax	No
0.000	120.0	1 1/4" Coax	No
0.000	131.0	1 1/4" Coax	No
0.000	138.0	1 5/8" Coax	No
0.000	138.0	7/8" Coax	No
0.000	138.0	7/8" Coax	No

Load Cases	
No Ice	85.00 mph Wind with No Ice
Ice	73.61 mph Wind with Ice
Twist/Sway	50.00 mph Wind with No Ice

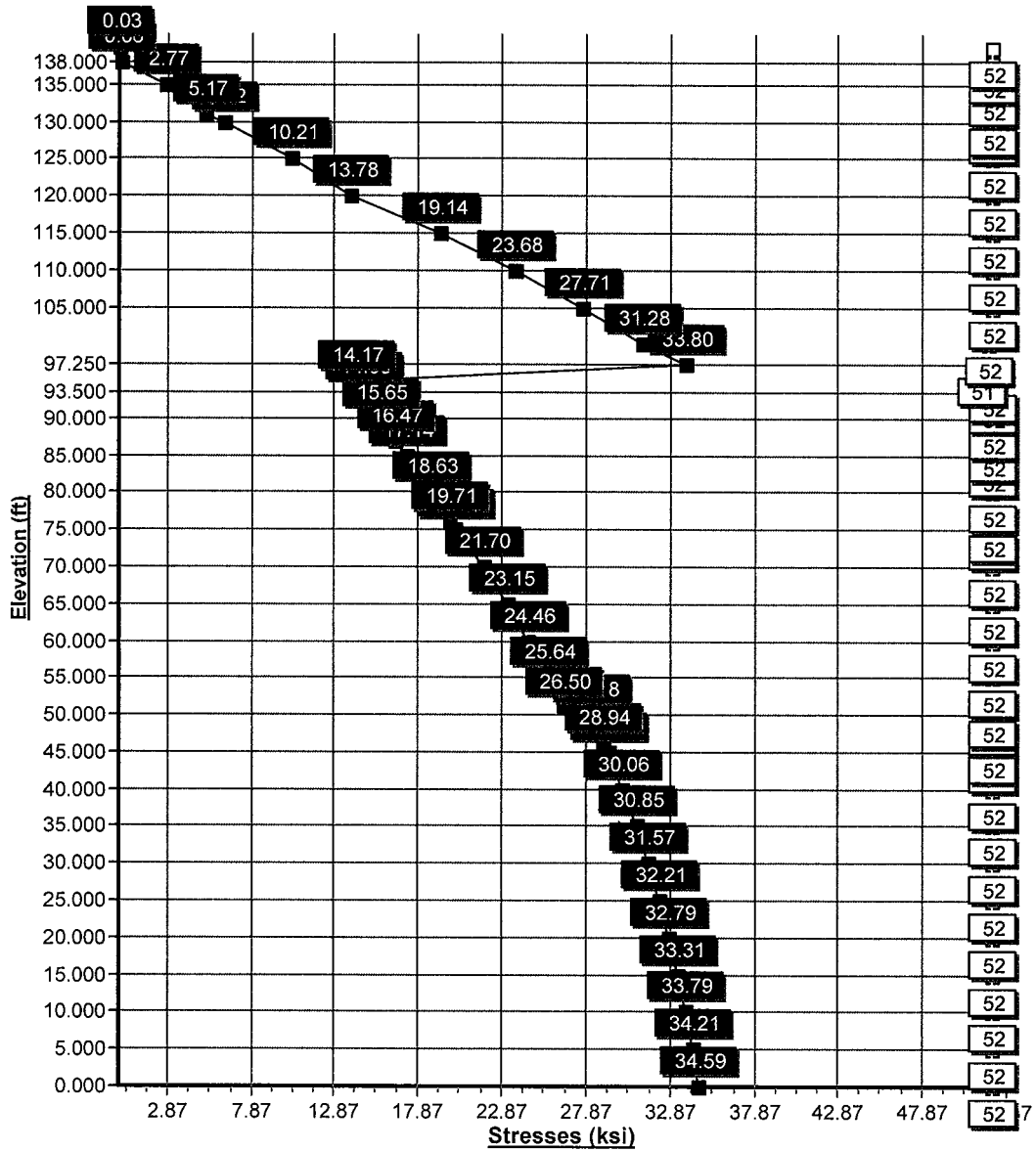


Reactions			
Load Case	Moment (Kip-ft)	Shear (Kips)	Axial (Kips)
No Ice	2410.86	25.64	38.45
Ice	2093.59	21.78	44.97
Twist/Sway	834.62	8.87	38.48

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



Load Case : No Ice
Max Stress 66.6% at 0.0ft

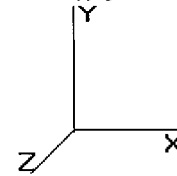


Pole : 310968
 Location : WSPT-Westport Rebuild CT, CT
 Height : 140.0 (ft)
 Shape : 18 Sides
 Base Dia : 47.13 (in)
 Top Dia : 20.50 (in)
 Taper : 0.200036 (in/ft)

Code : TIA/EIA-222 Rev F

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Base Elev : 0.000 (ft)



Shaft Section Properties

Sect Num	Length (ft)	Thick (in)	Fv (ksi)	Joint Type	Slip Joint Len (in)	Weight (lb)	Bottom				Top				Taper (in/ft)				
							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
1	51.000	0.5000	65		0.00	11,437	47.13	0.000	74.00	20328.7	14.86	94.26	36.92	51.00	57.81	9692.3	11.26	73.86	0.20004
2	51.000	0.5000	65	Slip Joint	57.00	9,165	38.87	46.25	60.90	11333.7	11.95	77.76	28.67	97.25	44.71	4485.1	8.35	57.35	0.20004
3	46.500	0.1875	65	Slip Joint	45.00	2,351	29.80	93.50	17.62	1952.7	26.26	158.9	20.50	140.0	12.09	630.1	17.52	109.33	0.20004
Shaft Weight						22,952													

Discrete Appurtenance Properties

Attach Elev (ft)	Description	Qty	Weight (lb)	No Ice CaAa (sf)	CaAa Factor	Weight (lb)	Ice CaAa (sf)	CaAa Factor	Distance From Face (ft)	Vert Ecc (ft)
138.0	Flat Platform w/ Handrails	1	2000.00	42.400	1.00	2450.00	48.400	1.00	0.000	0.000
138.0	6' Omni	3	25.00	1.760	1.00	38.24	2.130	1.00	0.000	0.000
138.0	8' Omni	2	40.00	2.400	1.00	62.00	3.230	1.00	0.000	0.000
138.0	6' Omni	2	25.00	1.760	1.00	38.24	2.130	1.00	0.000	0.000
138.0	8' FM Antenna	1	50.00	10.000	1.00	75.00	15.000	1.00	0.000	4.000
138.0	6' Dipole	1	30.00	4.000	1.00	50.00	5.500	1.00	0.000	0.000
131.0	Flat Low Profile Platform	1	1500.00	26.100	1.00	1700.00	31.600	1.00	0.000	0.000
131.0	KMW AM-X-WM-17-65-00T	3	30.00	3.160	0.72	47.00	3.670	0.72	0.000	0.000
131.0	KMW KMDAPS2020000	3	15.90	1.130	0.50	23.35	1.360	0.50	0.000	0.000
120.0	Flat Low Profile Platform	1	1500.00	26.100	1.00	1700.00	31.600	1.00	0.000	0.000
120.0	48" x 8" Panel	12	14.00	3.730	0.91	40.30	4.290	0.91	0.000	0.000
100.0	14" x 9" TTA	12	10.00	1.230	0.50	18.00	1.460	0.50	0.000	0.000
100.0	Diplexer	6	5.00	0.700	0.50	9.80	0.880	0.50	0.000	0.000
100.0	Flat Low Profile Platform	1	1500.00	26.100	1.00	1700.00	31.600	1.00	0.000	0.000
100.0	56" x 6" Panel	6	20.00	3.450	0.75	38.03	3.980	0.75	0.000	0.000
87.00	RFS ATMAA1412D-1A20	3	13.00	1.170	0.50	20.60	1.390	0.50	0.000	0.000
87.00	Andrew ETW190VS12UB	3	11.00	0.760	0.50	16.30	0.950	0.50	0.000	0.000
87.00	RFS APX16DWV-16DWV-S-E	3	39.60	6.700	0.67	69.38	7.350	0.67	0.000	0.000
87.00	Flat Low Profile Platform	1	1500.00	26.100	1.00	1700.00	31.600	1.00	0.000	0.000
76.00	Andrew DB844H80E-XY	6	10.00	3.730	0.88	35.38	4.290	0.88	0.000	0.000
76.00	Andrew 932DG65T2E-M	3	9.50	3.490	0.76	28.72	4.040	0.76	0.000	0.000
76.00	Powerwave P65-16-XL-2	3	33.00	8.400	0.75	77.53	9.230	0.75	0.000	0.000
76.00	Flat Low Profile Platform	1	1500.00	26.100	1.00	1700.00	31.600	1.00	0.000	0.000
Totals		78	10739.00			13437.69			Number of Loadings :	23

Linear Appurtenance Properties

Elev From (ft)	Elev To (ft)	Description	No Ice Weight (lb/ft)	No Ice CaAa (sf/ft)	Ice Weight (lb/ft)	Ice CaAa (sf/ft)	Exposed To Wind
0.00	138.00	(3) 1 5/8" Coax	2.46	0.00	0.00	0.00	N
0.00	138.00	(5) 7/8" Coax	2.66	0.00	0.00	0.00	N
0.00	138.00	(2) 7/8" Coax	0.66	0.00	0.00	0.00	N
0.00	131.00	(6) 1 1/4" Coax	3.78	0.00	0.00	0.00	N
0.00	120.00	(12) 1 1/4" Coax	7.56	0.00	0.00	0.00	N
0.00	100.00	(1) 0.315" Coax	0.05	0.00	0.00	0.00	N
0.00	100.00	(12) 1 5/8" Coax	9.84	0.00	0.00	0.00	N
0.00	87.00	(12) 1 5/8" Coax	9.84	0.40	20.00	0.50	Y
0.00	76.00	(12) 1 5/8" Coax	9.84	0.00	0.00	0.00	N
Total Weight			4,792.44 (lb)		1,740.00 (lb)		

Pole : 310968
 Location : WSPT-Westport Rebuild CT, CT
 Height : 140.0 (ft)
 Shape : 18 Sides
 Base Dia : 47.13 (in)
 Top Dia : 20.50 (in)
 Taper : 0.200036 (in/ft)

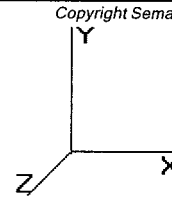
Code: TIA/EIA-222 Rev F

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Page: 2

Base Elev : 0.000 (ft)



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		0.5000	47.130	73.999	20,328.7	14.86	94.26	65	52	0.0
5.00		0.5000	46.130	72.412	19,048.5	14.50	92.26	65	52	1,245.5
10.00		0.5000	45.130	70.825	17,823.2	14.15	90.26	65	52	1,218.5
15.00		0.5000	44.129	69.237	16,651.5	13.80	88.26	65	52	1,191.5
20.00		0.5000	43.129	67.650	15,532.4	13.45	86.26	65	52	1,164.5
25.00		0.5000	42.129	66.063	14,464.6	13.09	84.26	65	52	1,137.5
30.00		0.5000	41.129	64.476	13,446.8	12.74	82.26	65	52	1,110.5
35.00		0.5000	40.129	62.889	12,478.0	12.39	80.26	65	52	1,083.5
40.00		0.5000	39.129	61.301	11,556.9	12.04	78.26	65	52	1,056.5
45.00		0.5000	38.128	59.714	10,682.2	11.68	76.26	65	52	1,029.5
46.25	Bot - Section 2	0.5000	37.878	59.317	10,470.7	11.59	75.76	65	52	253.1
50.00		0.5000	37.128	58.127	9,852.8	11.33	74.26	65	52	1,518.9
51.00	Top - Section 1	0.5000	37.928	59.396	10,512.6	11.61	75.86	65	52	399.9
55.00		0.5000	37.128	58.127	9,852.7	11.33	74.26	65	52	799.8
60.00		0.5000	36.128	56.539	9,067.4	10.98	72.26	65	52	975.5
65.00		0.5000	35.128	54.952	8,325.0	10.62	70.26	65	52	948.5
70.00		0.5000	34.128	53.365	7,624.3	10.27	68.26	65	52	921.4
75.00		0.5000	33.127	51.778	6,964.0	9.92	66.25	65	52	894.4
76.00		0.5000	32.927	51.460	6,836.7	9.85	65.85	65	52	175.6
80.00		0.5000	32.127	50.190	6,343.0	9.57	64.25	65	52	691.8
85.00		0.5000	31.127	48.603	5,760.0	9.21	62.25	65	52	840.4
87.00		0.5000	30.727	47.968	5,537.3	9.07	61.45	65	52	328.6
90.00		0.5000	30.127	47.016	5,214.0	8.86	60.25	65	52	484.8
93.50	Bot - Section 3	0.5000	29.427	45.905	4,853.0	8.61	58.85	65	52	553.3
95.00		0.5000	29.127	45.429	4,703.5	8.51	58.25	65	52	322.6
97.25	Top - Section 2	0.1875	29.052	17.177	1,808.1	25.56	154.94	65	51	477.6
100.0		0.1875	28.501	16.850	1,706.7	25.04	152.01	65	52	159.2
105.0		0.1875	27.501	16.255	1,532.1	24.10	146.67	65	52	281.6
110.0		0.1875	26.501	15.659	1,369.9	23.16	141.34	65	52	271.5
115.0		0.1875	25.501	15.064	1,219.5	22.22	136.00	65	52	261.4
120.0		0.1875	24.501	14.469	1,080.6	21.28	130.67	65	52	251.2
125.0		0.1875	23.501	13.874	952.7	20.34	125.34	65	52	241.1
130.0		0.1875	22.500	13.278	835.2	19.40	120.00	65	52	231.0
131.0		0.1875	22.300	13.159	813.0	19.21	118.94	65	52	45.0
135.0		0.1875	21.500	12.683	727.9	18.46	114.67	65	52	175.9
138.0		0.1875	20.900	12.326	668.1	17.89	111.47	65	52	127.7
140.0		0.1875	20.500	12.088	630.1	17.52	109.33	65	52	83.1
										22,952.4

Pole : 310968
 Location : WSPT-Westport Rebuild CT, CT
 Height : 140.0 (ft)
 Shape : 18 Sides
 Base Dia : 47.13 (in)
 Top Dia : 20.50 (in)
 Taper : 0.200036 (in/ft)

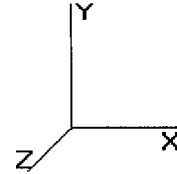
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Base Elev : 0.000 (ft)



Load Case: No Ice	85.00 mph Wind with No Ice	23 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)	qzCh (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 18.496	31.25 333.83	0.650	0.00	0.00	0.000	0.00	0.00	0.0	0.0	0.0
5.00		0.00	1.00 18.496	31.25 326.75	0.650	0.00	5.00	19.429	12.63	394.8	394.8	0.0	1,245.5
10.00		0.00	1.00 18.496	31.25 319.66	0.650	0.00	5.00	19.012	12.36	386.3	386.3	0.0	1,218.5
15.00		0.00	1.00 18.496	31.25 312.58	0.650	0.00	5.00	18.596	12.09	377.8	377.8	0.0	1,191.5
20.00		0.00	1.00 18.496	31.25 305.49	0.650	0.00	5.00	18.179	11.82	369.4	369.4	0.0	1,164.5
25.00		0.00	1.00 18.496	31.25 298.41	0.650	0.00	5.00	17.762	11.55	360.9	360.9	0.0	1,137.5
30.00		0.00	1.00 18.496	31.25 291.33	0.650	0.00	5.00	17.345	11.27	352.4	352.4	0.0	1,110.5
35.00		0.00	1.01 18.810	31.78 286.64	0.650	0.00	5.00	16.929	11.00	349.8	349.8	0.0	1,083.5
40.00		0.00	1.05 19.541	33.02 284.88	0.650	0.00	5.00	16.512	10.73	354.4	354.4	0.0	1,056.5
45.00		0.00	1.09 20.210	34.15 282.31	0.650	0.00	5.00	16.095	10.46	357.3	357.3	0.0	1,029.5
46.25	Bot - Section 2	0.00	1.10 20.369	34.42 281.56	0.650	0.00	1.25	3.959	2.57	88.6	88.6	0.0	253.1
50.00		0.00	1.12 20.827	35.19 279.07	0.650	0.00	3.75	12.032	7.82	275.3	275.3	0.0	1,518.9
51.00	Top - Section 1	0.00	1.13 20.946	35.39 278.35	0.650	0.00	1.00	3.169	2.06	72.9	72.9	0.0	399.9
55.00		0.00	1.15 21.402	36.17 282.90	0.650	0.00	4.00	12.509	8.13	294.1	294.1	0.0	799.8
60.00		0.00	1.18 21.941	37.08 278.72	0.650	0.00	5.00	15.262	9.92	367.8	367.8	0.0	975.5
65.00		0.00	1.21 22.449	37.93 274.12	0.650	0.00	5.00	14.845	9.65	366.1	366.1	0.0	948.5
70.00		0.00	1.24 22.929	38.75 269.15	0.650	0.00	5.00	14.428	9.38	363.4	363.4	0.0	921.4
75.00		0.00	1.26 23.386	39.52 263.85	0.650	0.00	5.00	14.011	9.11	359.9	359.9	0.0	894.4
76.00	Appertunance(s)	0.00	1.26 23.474	39.67 262.75	0.650	0.00	1.00	2.752	1.79	71.0	71.0	0.0	175.6
80.00		0.00	1.28 23.821	40.25 258.25	0.650	0.00	4.00	10.842	7.05	283.7	283.7	0.0	691.8
85.00		0.00	1.31 24.237	40.96 252.39	0.650	0.00	5.00	13.178	8.57	350.9	350.9	0.0	840.4
87.00	Appertunance(s)	0.00	1.31 24.399	41.23 249.97	0.650	0.00	2.00	5.154	3.35	138.1	138.1	0.0	328.6
90.00		0.00	1.33 24.636	41.63 246.28	0.650	0.00	3.00	7.607	4.94	205.9	205.9	0.0	484.8
93.50	Bot - Section 3	0.00	1.34 24.906	42.09 241.87	0.650	0.00	3.50	8.685	5.65	237.6	237.6	0.0	553.3
95.00		0.00	1.35 25.020	42.28 239.95	0.650	0.00	1.50	3.706	2.41	101.9	101.9	0.0	322.6
97.25	Top - Section 2	0.00	1.36 25.188	42.56 237.03	0.650	0.00	2.25	5.489	3.57	151.9	151.9	0.0	477.6
100.0	Appertunance(s)	0.00	1.37 25.389	42.90 236.53	0.650	0.00	2.75	6.595	4.29	183.9	183.9	0.0	159.2
105.0		0.00	1.39 25.745	43.51 229.82	0.650	0.00	5.00	11.667	7.58	330.0	330.0	0.0	281.6
110.0		0.00	1.41 26.090	44.09 222.94	0.650	0.00	5.00	11.250	7.31	322.4	322.4	0.0	271.5
115.0		0.00	1.42 26.423	44.65 215.89	0.650	0.00	5.00	10.834	7.04	314.5	314.5	0.0	261.4
120.0	Appertunance(s)	0.00	1.44 26.747	45.20 208.69	0.650	0.00	5.00	10.417	6.77	306.1	306.1	0.0	251.2
125.0		0.00	1.46 27.060	45.73 201.34	0.650	0.00	5.00	10.000	6.50	297.3	297.3	0.0	241.1
130.0		0.00	1.48 27.365	46.24 193.86	0.650	0.00	5.00	9.584	6.23	288.1	288.1	0.0	231.0
131.0	Appertunance(s)	0.00	1.48 27.425	46.34 192.34	0.650	0.00	1.00	1.867	1.21	56.2	56.2	0.0	45.0
135.0		0.00	1.49 27.662	46.74 186.24	0.650	0.00	4.00	7.300	4.75	221.8	221.8	0.0	175.9
138.0	Appertunance(s)	0.00	1.50 27.836	47.04 181.61	0.650	0.00	3.00	5.300	3.45	162.1	162.1	0.0	127.7
140.0		0.00	1.51 27.951	47.23 178.50	0.650	0.00	2.00	3.450	2.24	105.9	105.9	0.0	83.1
Totals:								140.00			9,620.4	0.0	22,952.4

Pole : 310968
 Location : WSPT-Westport Rebuild CT, CT
 Height : 140.0 (ft)
 Shape : 18 Sides
 Base Dia : 47.13 (in)
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 Taper : 0.200036 (in/ft)

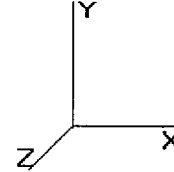
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Base Elev : 0.000 (ft)



Load Case: No Ice	85.00 mph Wind with No Ice	23 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)
76.00	Andrew DB844H80E-	6	23.474	39.672	0.88	19.69	0.000	0.000	781.31	0.00	0.00	60.00
76.00	Andrew 932DG65T2E-	3	23.474	39.672	0.76	7.96	0.000	0.000	315.67	0.00	0.00	28.50
76.00	Powerwave P65-16-	3	23.474	39.672	0.75	18.90	0.000	0.000	749.79	0.00	0.00	99.00
76.00	Flat Low Profile Pla	1	23.474	39.672	1.00	26.10	0.000	0.000	1,035.43	0.00	0.00	1,500.00
87.00	RFS ATMAA1412D-	3	24.399	41.234	0.50	1.75	0.000	0.000	72.37	0.00	0.00	39.00
87.00	Andrew	3	24.399	41.234	0.50	1.14	0.000	0.000	47.01	0.00	0.00	33.00
87.00	RFS APX16DWW-	3	24.399	41.234	0.67	13.47	0.000	0.000	555.29	0.00	0.00	118.80
87.00	Flat Low Profile Pla	1	24.399	41.234	1.00	26.10	0.000	0.000	1,076.20	0.00	0.00	1,500.00
100.0	14" x 9" TTA	12	25.389	42.907	0.50	7.38	0.000	0.000	316.66	0.00	0.00	120.00
100.0	Diplexer	6	25.389	42.907	0.50	2.10	0.000	0.000	90.11	0.00	0.00	30.00
100.0	Flat Low Profile Pla	1	25.389	42.907	1.00	26.10	0.000	0.000	1,119.88	0.00	0.00	1,500.00
100.0	56" x 6" Panel	6	25.389	42.907	0.75	15.53	0.000	0.000	666.14	0.00	0.00	120.00
120.0	Flat Low Profile Pla	1	26.747	45.202	1.00	26.10	0.000	0.000	1,179.77	0.00	0.00	1,500.00
120.0	48" x 8" Panel	12	26.747	45.202	0.91	40.73	0.000	0.000	1,841.14	0.00	0.00	168.00
131.0	Flat Low Profile Pla	1	27.425	46.349	1.00	26.10	0.000	0.000	1,209.70	0.00	0.00	1,500.00
131.0	KMW AM-X-WM-17-65-	3	27.425	46.349	0.72	6.83	0.000	0.000	316.36	0.00	0.00	90.00
131.0	KMW	3	27.425	46.349	0.50	1.69	0.000	0.000	78.56	0.00	0.00	47.70
138.0	Flat Platform w/ Han	1	27.836	47.043	1.00	42.40	0.000	0.000	1,994.63	0.00	0.00	2,000.00
138.0	6' Omni	3	27.836	47.043	1.00	5.28	0.000	0.000	248.37	0.00	0.00	75.00
138.0	8' Omni	2	27.836	47.043	1.00	4.80	0.000	0.000	225.81	0.00	0.00	80.00
138.0	6' Omni	2	27.836	47.043	1.00	3.52	0.000	0.000	165.59	0.00	0.00	50.00
138.0	8' FM Antenna	1	28.064	47.429	1.00	10.00	0.000	4.000	474.29	0.00	1,897.16	50.00
138.0	6' Dipole	1	27.836	47.043	1.00	4.00	0.000	0.000	188.17	0.00	0.00	30.00
									14,748.24			10,739.00

Pole : 310968
 Location : WSPT-Westport Rebuild CT, CT
 Height : 140.0 (ft)
 Shape : 18 Sides
 Base Dia : 47.13 (in)
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 Taper : 0.200036 (in/ft)

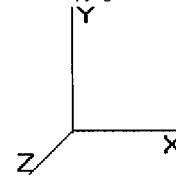
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Base Elev : 0.000 (ft)



Load Case: No Ice	85.00 mph Wind with No Ice	23 Iterations
Gust Response Factor : 1.69		
Dead Load Factor : 1.00		
Wind Load Factor : 1.00		

Linear Appurtenance Segment Forces

Seg Top Elev (ft)	Description	Exposed To Wind	Length (ft)	Weight (lb/ft)	CaAa (sf/ft)	qz (psf)	FX (lb)	Dead Load (lb)
5.00	(12) 1 5/8" Coax	Yes	5.00	9.84	0.40	18.496	62.52	49.20
10.00	(12) 1 5/8" Coax	Yes	5.00	9.84	0.40	18.496	62.52	49.20
15.00	(12) 1 5/8" Coax	Yes	5.00	9.84	0.40	18.496	62.52	49.20
20.00	(12) 1 5/8" Coax	Yes	5.00	9.84	0.40	18.496	62.52	49.20
25.00	(12) 1 5/8" Coax	Yes	5.00	9.84	0.40	18.496	62.52	49.20
30.00	(12) 1 5/8" Coax	Yes	5.00	9.84	0.40	18.496	62.52	49.20
35.00	(12) 1 5/8" Coax	Yes	5.00	9.84	0.40	18.810	63.58	49.20
40.00	(12) 1 5/8" Coax	Yes	5.00	9.84	0.40	19.541	66.05	49.20
45.00	(12) 1 5/8" Coax	Yes	5.00	9.84	0.40	20.210	68.31	49.20
46.25	(12) 1 5/8" Coax	Yes	1.25	9.84	0.40	20.369	17.21	12.30
50.00	(12) 1 5/8" Coax	Yes	3.75	9.84	0.40	20.827	52.80	36.90
51.00	(12) 1 5/8" Coax	Yes	1.00	9.84	0.40	20.946	14.16	9.84
55.00	(12) 1 5/8" Coax	Yes	4.00	9.84	0.40	21.402	57.87	39.36
60.00	(12) 1 5/8" Coax	Yes	5.00	9.84	0.40	21.941	74.16	49.20
65.00	(12) 1 5/8" Coax	Yes	5.00	9.84	0.40	22.449	75.88	49.20
70.00	(12) 1 5/8" Coax	Yes	5.00	9.84	0.40	22.929	77.50	49.20
75.00	(12) 1 5/8" Coax	Yes	5.00	9.84	0.40	23.386	79.04	49.20
76.00	(12) 1 5/8" Coax	Yes	1.00	9.84	0.40	23.474	15.87	9.84
80.00	(12) 1 5/8" Coax	Yes	4.00	9.84	0.40	23.821	64.41	39.36
85.00	(12) 1 5/8" Coax	Yes	5.00	9.84	0.40	24.237	81.92	49.20
87.00	(12) 1 5/8" Coax	Yes	2.00	9.84	0.40	24.399	32.99	19.68
Totals:							1,216.84	856.08

Pole : 310968
 Location : WSPT-Westport Rebuild CT, CT
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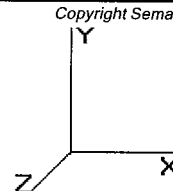
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Base Elev : 0.000 (ft)



Load Case: No Ice	85.00 mph Wind with No Ice	23 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	457.27	1,478.94	0.00	0.00
10.00	448.81	1,451.93	0.00	0.00
15.00	440.34	1,424.93	0.00	0.00
20.00	431.87	1,397.92	0.00	0.00
25.00	423.41	1,370.92	0.00	0.00
30.00	414.94	1,343.91	0.00	0.00
35.00	413.36	1,316.91	0.00	0.00
40.00	420.49	1,289.90	0.00	0.00
45.00	425.63	1,262.90	0.00	0.00
46.25	105.79	311.50	0.00	0.00
50.00	328.08	1,693.96	0.00	0.00
51.00	87.07	446.59	0.00	0.00
55.00	351.97	986.55	0.00	0.00
60.00	442.00	1,208.88	0.00	0.00
65.00	441.95	1,181.88	0.00	0.00
70.00	440.91	1,154.87	0.00	0.00
75.00	438.98	1,127.87	0.00	0.00
76.00	2,969.04	1,909.83	0.00	0.00
80.00	348.13	839.17	0.00	0.00
85.00	432.78	1,024.66	0.00	0.00
87.00	1,922.00	2,093.10	0.00	0.00
90.00	205.86	565.83	0.00	0.00
93.50	237.61	647.85	0.00	0.00
95.00	101.87	363.10	0.00	0.00
97.25	151.88	538.38	0.00	0.00
100.0	2,376.70	2,003.47	0.00	0.00
105.0	329.96	367.22	0.00	0.00
110.0	322.44	357.09	0.00	0.00
115.0	314.46	346.96	0.00	0.00
120.0	3,326.97	2,004.84	0.00	0.00
125.0	297.27	288.91	0.00	0.00
130.0	288.09	278.78	0.00	0.00
131.0	1,660.86	1,692.24	0.00	0.00
135.0	221.83	198.99	0.00	0.00
138.0	3,458.93	2,429.99	0.00	1,897.16
140.0	105.93	83.08	0.00	0.00
Totals:	25,585.49	38,483.83	0.00	1,897.16

Pole : 310968
 Location : WSPT-Westport Rebuild CT, CT
 Height : 140.0 (ft)
 Shape : 18 Sides
 Base Dia : 47.13 (in)
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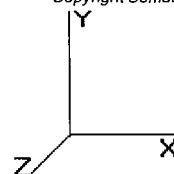
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Base Elev : 0.000 (ft)



Load Case: No Ice	85.00 mph Wind with No Ice	23 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	-25.641	-38.446	0.000	0.000	0.000	-2,410.863	0.000	0.000	0.000	0.000
5.00	-25.288	-36.895	0.000	0.000	0.000	-2,282.658	-0.088	0.000	0.088	-0.164
10.00	-24.936	-35.373	0.000	0.000	0.000	-2,156.218	-0.349	0.000	0.349	-0.330
15.00	-24.585	-33.879	0.000	0.000	0.000	-2,031.540	-0.785	0.000	0.785	-0.497
20.00	-24.234	-32.415	0.000	0.000	0.000	-1,908.618	-1.396	0.000	1.396	-0.665
25.00	-23.885	-30.979	0.000	0.000	0.000	-1,787.449	-2.183	0.000	2.183	-0.835
30.00	-23.536	-29.572	0.000	0.000	0.000	-1,668.027	-3.149	0.000	3.149	-1.005
35.00	-23.182	-28.195	0.000	0.000	0.000	-1,550.348	-4.292	0.000	4.292	-1.175
40.00	-22.813	-26.847	0.000	0.000	0.000	-1,434.441	-5.614	0.000	5.614	-1.345
45.00	-22.403	-25.554	0.000	0.000	0.000	-1,320.380	-7.114	0.000	7.114	-1.514
46.25	-22.326	-25.212	0.000	0.000	0.000	-1,292.378	-7.517	0.000	7.517	-1.558
50.00	-21.983	-23.497	0.000	0.000	0.000	-1,208.655	-8.792	0.000	8.792	-1.685
51.00	-21.917	-23.020	0.000	0.000	0.000	-1,186.672	-9.149	0.000	9.149	-1.720
55.00	-21.590	-21.992	0.000	0.000	0.000	-1,099.004	-10.647	0.000	10.647	-1.854
60.00	-21.161	-20.743	0.000	0.000	0.000	-991.057	-12.671	0.000	12.671	-2.005
65.00	-20.726	-19.526	0.000	0.000	0.000	-885.252	-14.850	0.000	14.850	-2.152
70.00	-20.285	-18.340	0.000	0.000	0.000	-781.622	-17.181	0.000	17.181	-2.295
75.00	-19.824	-17.203	0.000	0.000	0.000	-680.196	-19.657	0.000	19.657	-2.431
76.00	-16.794	-15.402	0.000	0.000	0.000	-660.372	-20.170	0.000	20.170	-2.458
80.00	-16.439	-14.546	0.000	0.000	0.000	-593.195	-22.274	0.000	22.274	-2.563
85.00	-15.980	-13.519	0.000	0.000	0.000	-511.001	-25.024	0.000	25.024	-2.687
87.00	-13.973	-11.504	0.000	0.000	0.000	-479.041	-26.160	0.000	26.160	-2.735
90.00	-13.754	-10.931	0.000	0.000	0.000	-437.123	-27.901	0.000	27.901	-2.806
93.50	-13.495	-10.283	0.000	0.000	0.000	-388.983	-29.988	0.000	29.988	-2.885
95.00	-13.382	-9.916	0.000	0.000	0.000	-368.741	-30.899	0.000	30.899	-2.918
97.25	-13.211	-9.374	0.000	0.000	0.000	-338.632	-32.286	0.000	32.286	-2.966
100.0	-10.752	-7.470	0.000	0.000	0.000	-302.302	-34.011	0.000	34.011	-3.022
105.0	-10.430	-7.082	0.000	0.000	0.000	-248.542	-37.301	0.000	37.301	-3.252
110.0	-10.109	-6.710	0.000	0.000	0.000	-196.395	-40.819	0.000	40.819	-3.458
115.0	-9.792	-6.356	0.000	0.000	0.000	-145.848	-44.538	0.000	44.538	-3.636
120.0	-6.352	-4.557	0.000	0.000	0.000	-96.889	-48.425	0.000	48.425	-3.778
125.0	-6.043	-4.279	0.000	0.000	0.000	-65.131	-52.439	0.000	52.439	-3.884
130.0	-5.739	-4.017	0.000	0.000	0.000	-34.918	-56.549	0.000	56.549	-3.959
131.0	-3.966	-2.442	0.000	0.000	0.000	-29.179	-57.379	0.000	57.379	-3.970
135.0	-3.732	-2.258	0.000	0.000	0.000	-13.315	-60.717	0.000	60.717	-4.000
138.0	-0.111	-0.075	0.000	0.000	0.000	-0.223	-63.232	0.000	63.232	-4.009
140.0	-0.106	0.000	0.000	0.000	0.000	0.000	-64.910	0.000	64.910	-4.009

Pole : 310968
 Location : WSPT-Westport Rebuild CT, CT
 Height : 140.0 (ft)
 Shape : 18 Sides
 Base Dia : 47.13 (in)
 Top Dia : 20.50 (in)
 Taper : 0.200036 (in/ft)

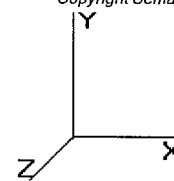
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Base Elev : 0.000 (ft)



Load Case: No Ice	85.00 mph Wind with No Ice	23 Iterations
Gust Response Factor : 1.69		
Dead Load Factor : 1.00		
Wind Load Factor : 1.00		

Calculated Stresses

Seg Elev (ft)	Applied Stresses							Combined (ksi)	Allowable Stress (Fb) (ksi)	Stress Ratio
	Axial (Y) (ksi)	Shear (X) (ksi)	Shear (Z) (ksi)	Torsion (ksi)	Bending (X) (ksi)	Bending (Z) (ksi)				
0.00	0.52	0.70	0.00	0.00	0.00	34.05	34.59	52.0	0.0	0.666
5.00	0.51	0.70	0.00	0.00	0.00	33.68	34.21	52.0	0.0	0.658
10.00	0.50	0.71	0.00	0.00	0.00	33.26	33.79	52.0	0.0	0.650
15.00	0.49	0.72	0.00	0.00	0.00	32.80	33.31	52.0	0.0	0.641
20.00	0.48	0.72	0.00	0.00	0.00	32.29	32.79	52.0	0.0	0.631
25.00	0.47	0.73	0.00	0.00	0.00	31.72	32.21	52.0	0.0	0.620
30.00	0.46	0.74	0.00	0.00	0.00	31.08	31.57	52.0	0.0	0.607
35.00	0.45	0.74	0.00	0.00	0.00	30.38	30.85	52.0	0.0	0.594
40.00	0.44	0.75	0.00	0.00	0.00	29.59	30.06	52.0	0.0	0.578
45.00	0.43	0.76	0.00	0.00	0.00	28.71	29.17	52.0	0.0	0.561
46.25	0.43	0.76	0.00	0.00	0.00	28.48	28.94	52.0	0.0	0.557
50.00	0.40	0.76	0.00	0.00	0.00	27.75	28.18	52.0	0.0	0.542
51.00	0.39	0.74	0.00	0.00	0.00	26.08	26.50	52.0	0.0	0.510
55.00	0.38	0.75	0.00	0.00	0.00	25.23	25.64	52.0	0.0	0.493
60.00	0.37	0.75	0.00	0.00	0.00	24.06	24.46	52.0	0.0	0.471
65.00	0.36	0.76	0.00	0.00	0.00	22.76	23.15	52.0	0.0	0.445
70.00	0.34	0.77	0.00	0.00	0.00	21.32	21.70	52.0	0.0	0.417
75.00	0.33	0.77	0.00	0.00	0.00	19.71	20.09	52.0	0.0	0.387
76.00	0.30	0.66	0.00	0.00	0.00	19.38	19.71	52.0	0.0	0.379
80.00	0.29	0.66	0.00	0.00	0.00	18.31	18.63	52.0	0.0	0.358
85.00	0.28	0.66	0.00	0.00	0.00	16.82	17.14	52.0	0.0	0.330
87.00	0.24	0.59	0.00	0.00	0.00	16.20	16.47	52.0	0.0	0.317
90.00	0.23	0.59	0.00	0.00	0.00	15.39	15.65	52.0	0.0	0.301
93.50	0.22	0.59	0.00	0.00	0.00	14.37	14.63	52.0	0.0	0.281
95.00	0.22	0.59	0.00	0.00	0.00	13.91	14.17	52.0	0.0	0.273
97.25	0.55	1.55	0.00	0.00	0.00	33.15	33.80	51.3	0.0	0.658
100.00	0.44	1.29	0.00	0.00	0.00	30.76	31.28	51.8	0.0	0.604
105.00	0.44	1.29	0.00	0.00	0.00	27.18	27.71	52.0	0.0	0.533
110.00	0.43	1.30	0.00	0.00	0.00	23.15	23.68	52.0	0.0	0.456
115.00	0.42	1.31	0.00	0.00	0.00	18.58	19.14	52.0	0.0	0.368
120.00	0.31	0.88	0.00	0.00	0.00	13.38	13.78	52.0	0.0	0.265
125.00	0.31	0.88	0.00	0.00	0.00	9.79	10.21	52.0	0.0	0.196
130.00	0.30	0.87	0.00	0.00	0.00	5.73	6.22	52.0	0.0	0.120
131.00	0.19	0.61	0.00	0.00	0.00	4.88	5.17	52.0	0.0	0.099
135.00	0.18	0.59	0.00	0.00	0.00	2.40	2.77	52.0	0.0	0.053
138.00	0.01	0.02	0.00	0.00	0.00	0.04	0.06	52.0	0.0	0.001
140.00	0.00	0.02	0.00	0.00	0.00	0.00	0.03	52.0	0.0	0.001

Pole : 310968
 Location : WSPT-Westport Rebuild CT, CT
 Height : 140.0 (ft)
 Shape : 18 Sides
 Base Dia : 47.13 (in)
 Top Dia : 20.50 (in)
 Taper : 0.200036 (in/ft)

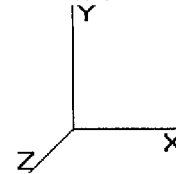
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Base Elev : 0.000 (ft)



Load Case: Ice

73.61 mph Wind with Ice

23 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	13.871	23.44	289.10	0.650	0.50	0.00	0.000	0.00	0.0	0.0	
5.00		0.00	1.00	13.871	23.44	282.96	0.650	0.50	5.00	19.846	12.90	302.4	143.9	1,389.4
10.00		0.00	1.00	13.871	23.44	276.83	0.650	0.50	5.00	19.429	12.63	296.0	140.8	1,359.3
15.00		0.00	1.00	13.871	23.44	270.69	0.650	0.50	5.00	19.012	12.36	289.7	137.7	1,329.2
20.00		0.00	1.00	13.871	23.44	264.56	0.650	0.50	5.00	18.596	12.09	283.3	134.6	1,299.1
25.00		0.00	1.00	13.871	23.44	258.42	0.650	0.50	5.00	18.179	11.82	277.0	131.5	1,269.0
30.00		0.00	1.00	13.871	23.44	252.29	0.650	0.50	5.00	17.762	11.55	270.6	128.5	1,238.9
35.00		0.00	1.01	14.106	23.84	248.23	0.650	0.50	5.00	17.345	11.27	268.8	125.4	1,208.9
40.00		0.00	1.05	14.655	24.76	246.70	0.650	0.50	5.00	16.929	11.00	272.5	122.3	1,178.8
45.00		0.00	1.09	15.156	25.61	244.48	0.650	0.50	5.00	16.512	10.73	274.9	119.2	1,148.7
46.25	Bot - Section 2	0.00	1.10	15.276	25.81	243.83	0.650	0.50	1.25	4.063	2.64	68.2	29.6	282.8
50.00		0.00	1.12	15.620	26.39	241.67	0.650	0.50	3.75	12.345	8.02	211.8	89.4	1,608.3
51.00	Top - Section 1	0.00	1.13	15.708	26.54	241.05	0.650	0.50	1.00	3.252	2.11	56.1	23.7	423.6
55.00		0.00	1.15	16.051	27.12	244.99	0.650	0.50	4.00	12.843	8.35	226.4	92.9	892.7
60.00		0.00	1.18	16.455	27.80	241.37	0.650	0.50	5.00	15.678	10.19	283.4	113.0	1,088.5
65.00		0.00	1.21	16.836	28.45	237.38	0.650	0.50	5.00	15.262	9.92	282.2	109.9	1,058.4
70.00		0.00	1.24	17.196	29.06	233.08	0.650	0.50	5.00	14.845	9.65	280.4	106.9	1,028.3
75.00		0.00	1.26	17.538	29.63	228.49	0.650	0.50	5.00	14.428	9.38	278.0	103.8	998.2
76.00	Appertunance(s)	0.00	1.26	17.605	29.75	227.54	0.650	0.50	1.00	2.836	1.84	54.8	20.6	196.3
80.00		0.00	1.28	17.865	30.19	223.64	0.650	0.50	4.00	11.176	7.26	219.3	80.5	772.3
85.00		0.00	1.31	18.177	30.71	218.57	0.650	0.50	5.00	13.595	8.84	271.4	97.6	938.0
87.00	Appertunance(s)	0.00	1.31	18.298	30.92	216.48	0.650	0.50	2.00	5.321	3.46	107.0	38.5	367.2
90.00		0.00	1.33	18.476	31.22	213.28	0.650	0.50	3.00	7.857	5.11	159.5	56.7	541.5
93.50	Bot - Section 3	0.00	1.34	18.678	31.56	209.46	0.650	0.50	3.50	8.977	5.83	184.2	64.6	618.0
95.00		0.00	1.35	18.764	31.71	207.80	0.650	0.50	1.50	3.831	2.49	79.0	27.8	350.4
97.25	Top - Section 2	0.00	1.36	18.889	31.92	205.27	0.650	0.50	2.25	5.677	3.69	117.8	41.0	518.7
100.0	Appertunance(s)	0.00	1.37	19.041	32.17	204.83	0.650	0.50	2.75	6.824	4.44	142.7	49.2	208.4
105.0		0.00	1.39	19.308	32.63	199.03	0.650	0.50	5.00	12.084	7.85	256.3	86.4	368.0
110.0		0.00	1.41	19.566	33.06	193.07	0.650	0.50	5.00	11.667	7.58	250.8	83.3	354.8
115.0		0.00	1.42	19.816	33.49	186.96	0.650	0.50	5.00	11.250	7.31	244.9	80.2	341.6
120.0	Appertunance(s)	0.00	1.44	20.059	33.89	180.73	0.650	0.50	5.00	10.834	7.04	238.7	77.1	328.4
125.0		0.00	1.46	20.294	34.29	174.36	0.650	0.50	5.00	10.417	6.77	232.2	74.1	315.2
130.0		0.00	1.48	20.523	34.68	167.88	0.650	0.50	5.00	10.000	6.50	225.4	71.0	302.0
131.0	Appertunance(s)	0.00	1.48	20.568	34.75	166.57	0.650	0.50	1.00	1.950	1.27	44.1	14.1	59.1
135.0		0.00	1.49	20.745	35.05	161.28	0.650	0.50	4.00	7.633	4.96	174.0	54.3	230.2
138.0	Appertunance(s)	0.00	1.50	20.876	35.28	157.27	0.650	0.50	3.00	5.550	3.61	127.3	39.6	167.3
140.0		0.00	1.51	20.962	35.42	154.58	0.650	0.50	2.00	3.617	2.35	83.3	25.9	109.0
Totals:								140.00			7,434.5	2,935.8	25,888.2	

Pole : 310968
 Location : WSPT-Westport Rebuild CT, CT
 Height : 140.0 (ft)
 Shape : 18 Sides
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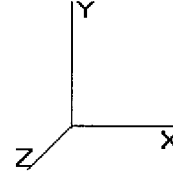
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Base Elev : 0.000 (ft)



Load Case: Ice

73.61 mph Wind with Ice

23 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)
76.00	Andrew DB844H80E-	6	17.605	29.752	0.88	22.65	0.000	0.000	673.91	0.00	0.00	212.28
76.00	Andrew 932DG65T2E-	3	17.605	29.752	0.76	9.21	0.000	0.000	274.05	0.00	0.00	86.16
76.00	Powerwave P65-16-	3	17.605	29.752	0.75	20.77	0.000	0.000	617.87	0.00	0.00	232.59
76.00	Flat Low Profile Pla	1	17.605	29.752	1.00	31.60	0.000	0.000	940.16	0.00	0.00	1,700.00
87.00	RFS ATMAA1412D-	3	18.298	30.923	0.50	2.09	0.000	0.000	64.48	0.00	0.00	61.80
87.00	Andrew	3	18.298	30.923	0.50	1.42	0.000	0.000	44.07	0.00	0.00	48.90
87.00	RFS APX16DWW-	3	18.298	30.923	0.67	14.77	0.000	0.000	456.85	0.00	0.00	208.14
87.00	Flat Low Profile Pla	1	18.298	30.923	1.00	31.60	0.000	0.000	977.18	0.00	0.00	1,700.00
100.0	14" x 9" TTA	12	19.041	32.179	0.50	8.76	0.000	0.000	281.88	0.00	0.00	216.00
100.0	Diplexer	6	19.041	32.179	0.50	2.64	0.000	0.000	84.95	0.00	0.00	58.80
100.0	Flat Low Profile Pla	1	19.041	32.179	1.00	31.60	0.000	0.000	1,016.84	0.00	0.00	1,700.00
100.0	56" x 6" Panel	6	19.041	32.179	0.75	17.91	0.000	0.000	576.32	0.00	0.00	228.18
120.0	Flat Low Profile Pla	1	20.059	33.899	1.00	31.60	0.000	0.000	1,071.22	0.00	0.00	1,700.00
120.0	48" x 8" Panel	12	20.059	33.899	0.91	46.85	0.000	0.000	1,588.07	0.00	0.00	483.59
131.0	Flat Low Profile Pla	1	20.568	34.759	1.00	31.60	0.000	0.000	1,098.40	0.00	0.00	1,700.00
131.0	KMW AM-X-WM-17-65-	3	20.568	34.759	0.72	7.93	0.000	0.000	275.54	0.00	0.00	141.00
131.0	KMW	3	20.568	34.759	0.50	2.04	0.000	0.000	70.91	0.00	0.00	70.05
138.0	Flat Platform w/ Han	1	20.876	35.280	1.00	48.40	0.000	0.000	1,707.56	0.00	0.00	2,450.00
138.0	6' Omni	3	20.876	35.280	1.00	6.39	0.000	0.000	225.44	0.00	0.00	114.72
138.0	8' Omni	2	20.876	35.280	1.00	6.46	0.000	0.000	227.91	0.00	0.00	124.00
138.0	6' Omni	2	20.876	35.280	1.00	4.26	0.000	0.000	150.29	0.00	0.00	76.48
138.0	8' FM Antenna	1	21.047	35.569	1.00	15.00	0.000	4.000	533.54	0.00	2,134.17	75.00
138.0	6' Dipole	1	20.876	35.280	1.00	5.50	0.000	0.000	194.04	0.00	0.00	50.00
									13,151.48			13,437.69

Pole : 310968
 Location : WSPT-Westport Rebuild CT, CT
 Height : 140.0 (ft)
 Shape : 18 Sides
 Base Dia : 47.13 (in)
 Top Dia : 20.50 (in)
 Taper : 0.200036 (in/ft)

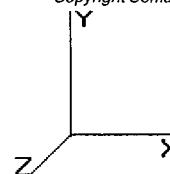
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Base Elev : 0.000 (ft)



Load Case: Ice	73.61 mph Wind with Ice	23 Iterations
Gust Response Factor : 1.69		
Dead Load Factor : 1.00		
Wind Load Factor : 1.00		

Linear Appurtenance Segment Forces

Seg Top Elev (ft)	Description	Exposed To Wind	Length (ft)	Weight (lb/ft)	CaAa (sf/ft)	qz (psf)	FX (lb)	Dead Load (lb)
5.00	(12) 1 5/8" Coax	Yes	5.00	20.00	0.50	13.871	58.61	100.00
10.00	(12) 1 5/8" Coax	Yes	5.00	20.00	0.50	13.871	58.61	100.00
15.00	(12) 1 5/8" Coax	Yes	5.00	20.00	0.50	13.871	58.61	100.00
20.00	(12) 1 5/8" Coax	Yes	5.00	20.00	0.50	13.871	58.61	100.00
25.00	(12) 1 5/8" Coax	Yes	5.00	20.00	0.50	13.871	58.61	100.00
30.00	(12) 1 5/8" Coax	Yes	5.00	20.00	0.50	13.871	58.61	100.00
35.00	(12) 1 5/8" Coax	Yes	5.00	20.00	0.50	14.106	59.60	100.00
40.00	(12) 1 5/8" Coax	Yes	5.00	20.00	0.50	14.655	61.92	100.00
45.00	(12) 1 5/8" Coax	Yes	5.00	20.00	0.50	15.156	64.04	100.00
46.25	(12) 1 5/8" Coax	Yes	1.25	20.00	0.50	15.276	16.13	25.00
50.00	(12) 1 5/8" Coax	Yes	3.75	20.00	0.50	15.620	49.49	75.00
51.00	(12) 1 5/8" Coax	Yes	1.00	20.00	0.50	15.708	13.27	20.00
55.00	(12) 1 5/8" Coax	Yes	4.00	20.00	0.50	16.051	54.25	80.00
60.00	(12) 1 5/8" Coax	Yes	5.00	20.00	0.50	16.455	69.52	100.00
65.00	(12) 1 5/8" Coax	Yes	5.00	20.00	0.50	16.836	71.13	100.00
70.00	(12) 1 5/8" Coax	Yes	5.00	20.00	0.50	17.196	72.65	100.00
75.00	(12) 1 5/8" Coax	Yes	5.00	20.00	0.50	17.538	74.10	100.00
76.00	(12) 1 5/8" Coax	Yes	1.00	20.00	0.50	17.605	14.88	20.00
80.00	(12) 1 5/8" Coax	Yes	4.00	20.00	0.50	17.865	60.38	80.00
85.00	(12) 1 5/8" Coax	Yes	5.00	20.00	0.50	18.177	76.80	100.00
87.00	(12) 1 5/8" Coax	Yes	2.00	20.00	0.50	18.298	30.92	40.00
Totals:							1,140.72	1,740.00

Pole : 310968
 Location : WSPT-Westport Rebuild CT, CT
 Height : 140.0 (ft)
 Shape : 18 Sides
 Base Dia : 47.13 (in)
 Top Dia : 20.50 (in)
 Taper : 0.200036 (in/ft)

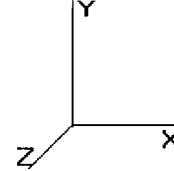
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Base Elev : 0.000 (ft)



Load Case: Ice	73.61 mph Wind with Ice	23 Iterations
Gust Response Factor : 1.69		
Dead Load Factor : 1.00		
Wind Load Factor : 1.00		

Applied Segment Forces Summary

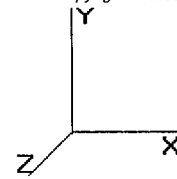
Seg Elev (ft)	Lateral FX (-) (lb)	Axial FY (-) (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)
0.00	0.00	0.00	0.00	0.00
5.00	361.01	1,673.62	0.00	0.00
10.00	354.66	1,643.53	0.00	0.00
15.00	348.30	1,613.44	0.00	0.00
20.00	341.95	1,583.35	0.00	0.00
25.00	335.60	1,553.26	0.00	0.00
30.00	329.25	1,523.17	0.00	0.00
35.00	328.38	1,493.08	0.00	0.00
40.00	334.44	1,462.98	0.00	0.00
45.00	338.95	1,432.89	0.00	0.00
46.25	84.31	353.81	0.00	0.00
50.00	261.31	1,821.45	0.00	0.00
51.00	69.39	480.47	0.00	0.00
55.00	280.69	1,120.08	0.00	0.00
60.00	352.92	1,372.71	0.00	0.00
65.00	353.37	1,342.61	0.00	0.00
70.00	353.06	1,312.52	0.00	0.00
75.00	352.06	1,282.43	0.00	0.00
76.00	2,575.70	2,484.15	0.00	0.00
80.00	279.70	960.35	0.00	0.00
85.00	348.24	1,173.05	0.00	0.00
87.00	1,680.44	2,480.00	0.00	0.00
90.00	159.46	622.53	0.00	0.00
93.50	184.18	712.49	0.00	0.00
95.00	78.97	390.87	0.00	0.00
97.25	117.80	579.41	0.00	0.00
100.0	2,102.72	2,485.67	0.00	0.00
105.0	256.30	453.62	0.00	0.00
110.0	250.77	440.41	0.00	0.00
115.0	244.90	427.19	0.00	0.00
120.0	2,898.00	2,597.57	0.00	0.00
125.0	232.22	362.97	0.00	0.00
130.0	225.45	349.75	0.00	0.00
131.0	1,488.91	1,979.66	0.00	0.00
135.0	173.96	253.30	0.00	0.00
138.0	3,166.07	3,074.81	0.00	2,134.17
140.0	83.28	109.00	0.00	0.00
Totals:	21,726.74	45,002.22	0.00	2,134.17

Pole : 310968
 Location : WSPT-Westport Rebuild CT, CT
 Height : 140.0 (ft)
 Shape : 18 Sides
 Base Dia : 47.13 (in)
 Top Dia : 20.50 (in)
 Taper : 0.200036 (in/ft)

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Base Elev : 0.000 (ft)



Load Case: Ice	73.61 mph Wind with Ice	23 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	-21.784	-44.974	0.000	0.000	0.000	-2,093.588	0.000	0.000	0.000	0.000
5.00	-21.529	-43.247	0.000	0.000	0.000	-1,984.672	-0.077	0.000	0.077	-0.143
10.00	-21.273	-41.552	0.000	0.000	0.000	-1,877.031	-0.303	0.000	0.303	-0.287
15.00	-21.017	-39.887	0.000	0.000	0.000	-1,770.667	-0.682	0.000	0.682	-0.432
20.00	-20.759	-38.253	0.000	0.000	0.000	-1,665.587	-1.214	0.000	1.214	-0.579
25.00	-20.501	-36.651	0.000	0.000	0.000	-1,561.794	-1.900	0.000	1.900	-0.727
30.00	-20.241	-35.080	0.000	0.000	0.000	-1,459.293	-2.741	0.000	2.741	-0.876
35.00	-19.975	-33.541	0.000	0.000	0.000	-1,358.089	-3.738	0.000	3.738	-1.025
40.00	-19.696	-32.034	0.000	0.000	0.000	-1,258.214	-4.891	0.000	4.891	-1.174
45.00	-19.376	-30.577	0.000	0.000	0.000	-1,159.734	-6.201	0.000	6.201	-1.323
46.25	-19.323	-30.200	0.000	0.000	0.000	-1,135.515	-6.552	0.000	6.552	-1.361
50.00	-19.052	-28.362	0.000	0.000	0.000	-1,063.055	-7.666	0.000	7.666	-1.473
51.00	-19.006	-27.859	0.000	0.000	0.000	-1,044.004	-7.978	0.000	7.978	-1.503
55.00	-18.754	-26.706	0.000	0.000	0.000	-967.981	-9.288	0.000	9.288	-1.621
60.00	-18.419	-25.302	0.000	0.000	0.000	-874.213	-11.058	0.000	11.058	-1.754
65.00	-18.076	-23.931	0.000	0.000	0.000	-782.121	-12.966	0.000	12.966	-1.884
70.00	-17.728	-22.593	0.000	0.000	0.000	-691.741	-15.007	0.000	15.007	-2.010
75.00	-17.356	-21.302	0.000	0.000	0.000	-603.104	-17.177	0.000	17.177	-2.131
76.00	-14.708	-18.901	0.000	0.000	0.000	-585.749	-17.626	0.000	17.626	-2.155
80.00	-14.424	-17.927	0.000	0.000	0.000	-526.916	-19.472	0.000	19.472	-2.248
85.00	-14.051	-16.750	0.000	0.000	0.000	-454.797	-21.885	0.000	21.885	-2.358
87.00	-12.282	-14.331	0.000	0.000	0.000	-426.695	-22.882	0.000	22.882	-2.401
90.00	-12.113	-13.701	0.000	0.000	0.000	-389.848	-24.411	0.000	24.411	-2.464
93.50	-11.909	-12.987	0.000	0.000	0.000	-347.455	-26.244	0.000	26.244	-2.535
95.00	-11.821	-12.593	0.000	0.000	0.000	-329.592	-27.045	0.000	27.045	-2.565
97.25	-11.687	-12.010	0.000	0.000	0.000	-302.996	-28.264	0.000	28.264	-2.608
100.0	-9.494	-9.601	0.000	0.000	0.000	-270.858	-29.781	0.000	29.781	-2.658
105.0	-9.247	-9.129	0.000	0.000	0.000	-223.389	-32.676	0.000	32.676	-2.864
110.0	-9.001	-8.675	0.000	0.000	0.000	-177.153	-35.777	0.000	35.777	-3.050
115.0	-8.754	-8.240	0.000	0.000	0.000	-132.151	-39.060	0.000	39.060	-3.210
120.0	-5.723	-5.801	0.000	0.000	0.000	-88.384	-42.493	0.000	42.493	-3.339
125.0	-5.478	-5.444	0.000	0.000	0.000	-59.770	-46.044	0.000	46.044	-3.436
130.0	-5.235	-5.106	0.000	0.000	0.000	-32.382	-49.681	0.000	49.681	-3.505
131.0	-3.628	-3.220	0.000	0.000	0.000	-27.148	-50.416	0.000	50.416	-3.515
135.0	-3.440	-2.977	0.000	0.000	0.000	-12.634	-53.373	0.000	53.373	-3.543
138.0	-0.090	-0.104	0.000	0.000	0.000	-0.180	-55.602	0.000	55.602	-3.552
140.0	-0.083	0.000	0.000	0.000	0.000	0.000	-57.089	0.000	57.089	-3.552

Pole : 310968
 Location : WSPT-Westport Rebuild CT, CT
 Height : 140.0 (ft)
 Shape : 18 Sides
 Base Dia : 47.13 (in)
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 Taper : 0.200036 (in/ft)

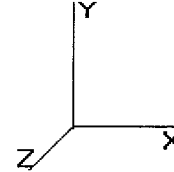
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Base Elev : 0.000 (ft)



Load Case: Ice	73.61 mph Wind with Ice	23 Iterations
Gust Response Factor : 1.69		
Dead Load Factor : 1.00		
Wind Load Factor : 1.00		

Calculated Stresses

Seg Elev (ft)	Applied Stresses							Combined (ksi)	Allowable Stress (Fb) (ksi)	Stress Ratio
	Axial (Y) (ksi)	Shear (X) (ksi)	Shear (Z) (ksi)	Torsion (ksi)	Bending (X) (ksi)	Bending (Z) (ksi)				
0.00	0.61	0.59	0.00	0.00	0.00	29.57	30.20	52.0	0.0	0.581
5.00	0.60	0.60	0.00	0.00	0.00	29.28	29.90	52.0	0.0	0.575
10.00	0.59	0.61	0.00	0.00	0.00	28.96	29.56	52.0	0.0	0.569
15.00	0.58	0.61	0.00	0.00	0.00	28.59	29.19	52.0	0.0	0.562
20.00	0.57	0.62	0.00	0.00	0.00	28.18	28.76	52.0	0.0	0.553
25.00	0.55	0.63	0.00	0.00	0.00	27.71	28.29	52.0	0.0	0.544
30.00	0.54	0.63	0.00	0.00	0.00	27.19	27.76	52.0	0.0	0.534
35.00	0.53	0.64	0.00	0.00	0.00	26.61	27.17	52.0	0.0	0.523
40.00	0.52	0.65	0.00	0.00	0.00	25.95	26.50	52.0	0.0	0.510
45.00	0.51	0.65	0.00	0.00	0.00	25.22	25.76	52.0	0.0	0.496
46.25	0.51	0.66	0.00	0.00	0.00	25.03	25.56	52.0	0.0	0.492
50.00	0.49	0.66	0.00	0.00	0.00	24.41	24.92	52.0	0.0	0.479
51.00	0.47	0.64	0.00	0.00	0.00	22.95	23.44	52.0	0.0	0.451
55.00	0.46	0.65	0.00	0.00	0.00	22.22	22.71	52.0	0.0	0.437
60.00	0.45	0.66	0.00	0.00	0.00	21.22	21.70	52.0	0.0	0.417
65.00	0.44	0.66	0.00	0.00	0.00	20.11	20.57	52.0	0.0	0.396
70.00	0.42	0.67	0.00	0.00	0.00	18.86	19.32	52.0	0.0	0.372
75.00	0.41	0.68	0.00	0.00	0.00	17.48	17.93	52.0	0.0	0.345
76.00	0.37	0.58	0.00	0.00	0.00	17.19	17.58	52.0	0.0	0.338
80.00	0.36	0.58	0.00	0.00	0.00	16.26	16.65	52.0	0.0	0.320
85.00	0.34	0.58	0.00	0.00	0.00	14.97	15.35	52.0	0.0	0.295
87.00	0.30	0.52	0.00	0.00	0.00	14.43	14.75	52.0	0.0	0.284
90.00	0.29	0.52	0.00	0.00	0.00	13.72	14.04	52.0	0.0	0.270
93.50	0.28	0.52	0.00	0.00	0.00	12.84	13.15	52.0	0.0	0.253
95.00	0.28	0.52	0.00	0.00	0.00	12.43	12.74	52.0	0.0	0.245
97.25	0.70	1.37	0.00	0.00	0.00	29.66	30.45	51.3	0.0	0.593
100.00	0.57	1.14	0.00	0.00	0.00	27.56	28.20	51.8	0.0	0.545
105.00	0.56	1.15	0.00	0.00	0.00	24.43	25.07	52.0	0.0	0.482
110.00	0.55	1.16	0.00	0.00	0.00	20.88	21.53	52.0	0.0	0.414
115.00	0.55	1.17	0.00	0.00	0.00	16.84	17.50	52.0	0.0	0.337
120.00	0.40	0.80	0.00	0.00	0.00	12.21	12.69	52.0	0.0	0.244
125.00	0.39	0.80	0.00	0.00	0.00	8.98	9.48	52.0	0.0	0.182
130.00	0.38	0.79	0.00	0.00	0.00	5.31	5.86	52.0	0.0	0.113
131.00	0.24	0.56	0.00	0.00	0.00	4.54	4.88	52.0	0.0	0.094
135.00	0.23	0.55	0.00	0.00	0.00	2.27	2.68	52.0	0.0	0.052
138.00	0.01	0.01	0.00	0.00	0.00	0.03	0.05	52.0	0.0	0.001
140.00	0.00	0.01	0.00	0.00	0.00	0.00	0.02	52.0	0.0	0.000

Pole : 310968
 Location : WSPT-Westport Rebuild CT, CT
 Height : 140.0 (ft)
 Shape : 18 Sides
 Base Dia : 47.13 (in)
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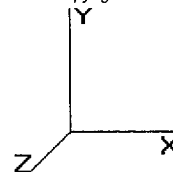
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Base Elev : 0.000 (ft)



Load Case: Twist/Sway 50.00 mph Wind with No Ice 22 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	196.37	0.650	0.00	0.00	0.000	0.00	0.0	0.0	
5.00		0.00	1.00	6.400	10.81	192.20	0.650	0.00	5.00	19.429	12.63	136.6	0.0	1,245.5
10.00		0.00	1.00	6.400	10.81	188.04	0.650	0.00	5.00	19.012	12.36	133.7	0.0	1,218.5
15.00		0.00	1.00	6.400	10.81	183.87	0.650	0.00	5.00	18.596	12.09	130.7	0.0	1,191.5
20.00		0.00	1.00	6.400	10.81	179.70	0.650	0.00	5.00	18.179	11.82	127.8	0.0	1,164.5
25.00		0.00	1.00	6.400	10.81	175.53	0.650	0.00	5.00	17.762	11.55	124.9	0.0	1,137.5
30.00		0.00	1.00	6.400	10.81	171.37	0.650	0.00	5.00	17.345	11.27	121.9	0.0	1,110.5
35.00		0.00	1.01	6.509	10.99	168.61	0.650	0.00	5.00	16.929	11.00	121.0	0.0	1,083.5
40.00		0.00	1.05	6.762	11.42	167.57	0.650	0.00	5.00	16.512	10.73	122.6	0.0	1,056.5
45.00		0.00	1.09	6.993	11.81	166.06	0.650	0.00	5.00	16.095	10.46	123.6	0.0	1,029.5
46.25	Bot - Section 2	0.00	1.10	7.048	11.91	165.62	0.650	0.00	1.25	3.959	2.57	30.6	0.0	253.1
50.00		0.00	1.12	7.207	12.17	164.16	0.650	0.00	3.75	12.032	7.82	95.3	0.0	1,518.9
51.00	Top - Section 1	0.00	1.13	7.248	12.24	163.74	0.650	0.00	1.00	3.169	2.06	25.2	0.0	399.9
55.00		0.00	1.15	7.406	12.51	166.41	0.650	0.00	4.00	12.509	8.13	101.8	0.0	799.8
60.00		0.00	1.18	7.592	12.83	163.95	0.650	0.00	5.00	15.262	9.92	127.3	0.0	975.5
65.00		0.00	1.21	7.768	13.12	161.24	0.650	0.00	5.00	14.845	9.65	126.7	0.0	948.5
70.00		0.00	1.24	7.934	13.40	158.32	0.650	0.00	5.00	14.428	9.38	125.7	0.0	921.4
75.00		0.00	1.26	8.092	13.67	155.20	0.650	0.00	5.00	14.011	9.11	124.5	0.0	894.4
76.00	Appertunance(s)	0.00	1.26	8.123	13.72	154.56	0.650	0.00	1.00	2.752	1.79	24.6	0.0	175.6
80.00		0.00	1.28	8.242	13.93	151.91	0.650	0.00	4.00	10.842	7.05	98.2	0.0	691.8
85.00		0.00	1.31	8.387	14.17	148.46	0.650	0.00	5.00	13.178	8.57	121.4	0.0	840.4
87.00	Appertunance(s)	0.00	1.31	8.442	14.26	147.04	0.650	0.00	2.00	5.154	3.35	47.8	0.0	328.6
90.00		0.00	1.33	8.525	14.40	144.87	0.650	0.00	3.00	7.607	4.94	71.2	0.0	484.8
93.50	Bot - Section 3	0.00	1.34	8.618	14.56	142.28	0.650	0.00	3.50	8.685	5.65	82.2	0.0	553.3
95.00		0.00	1.35	8.657	14.63	141.15	0.650	0.00	1.50	3.706	2.41	35.2	0.0	322.6
97.25	Top - Section 2	0.00	1.36	8.715	14.72	139.43	0.650	0.00	2.25	5.489	3.57	52.6	0.0	477.6
100.0	Appertunance(s)	0.00	1.37	8.785	14.84	139.13	0.650	0.00	2.75	6.595	4.29	63.6	0.0	159.2
105.0		0.00	1.39	8.908	15.05	135.19	0.650	0.00	5.00	11.667	7.58	114.2	0.0	281.6
110.0		0.00	1.41	9.028	15.25	131.14	0.650	0.00	5.00	11.250	7.31	111.6	0.0	271.5
115.0		0.00	1.42	9.143	15.45	126.99	0.650	0.00	5.00	10.834	7.04	108.8	0.0	261.4
120.0	Appertunance(s)	0.00	1.44	9.255	15.64	122.76	0.650	0.00	5.00	10.417	6.77	105.9	0.0	251.2
125.0		0.00	1.46	9.363	15.82	118.43	0.650	0.00	5.00	10.000	6.50	102.9	0.0	241.1
130.0		0.00	1.48	9.469	16.00	114.03	0.650	0.00	5.00	9.584	6.23	99.7	0.0	231.0
131.0	Appertunance(s)	0.00	1.48	9.490	16.03	113.14	0.650	0.00	1.00	1.867	1.21	19.5	0.0	45.0
135.0		0.00	1.49	9.572	16.17	109.55	0.650	0.00	4.00	7.300	4.75	76.8	0.0	175.9
138.0	Appertunance(s)	0.00	1.50	9.632	16.27	106.83	0.650	0.00	3.00	5.300	3.45	56.1	0.0	127.7
140.0		0.00	1.51	9.672	16.34	105.00	0.650	0.00	2.00	3.450	2.24	36.7	0.0	83.1
Totals:								140.00			3,328.9	0.0	22,952.4	

Pole : 310968
 Location : WSPT-Westport Rebuild CT, CT
 Height : 140.0 (ft)
 Shape : 18 Sides
 Base Dia : 47.13 (in)
 Top Dia : 20.50 (in)
 Taper : 0.200036 (in/ft)

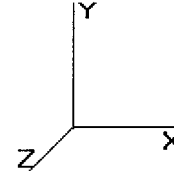
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Base Elev : 0.000 (ft)



Load Case: Twist/Sway	50.00 mph Wind with No Ice	22 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)
76.00	Andrew DB844H80E-	6	8.123	13.727	0.88	19.69	0.000	0.000	270.35	0.00	0.00	60.00
76.00	Andrew 932DG65T2E-	3	8.123	13.727	0.76	7.96	0.000	0.000	109.23	0.00	0.00	28.50
76.00	Powerwave P65-16-	3	8.123	13.727	0.75	18.90	0.000	0.000	259.44	0.00	0.00	99.00
76.00	Flat Low Profile Pla	1	8.123	13.727	1.00	26.10	0.000	0.000	358.28	0.00	0.00	1,500.00
87.00	RFS ATMAA1412D-	3	8.442	14.268	0.50	1.75	0.000	0.000	25.04	0.00	0.00	39.00
87.00	Andrew	3	8.442	14.268	0.50	1.14	0.000	0.000	16.27	0.00	0.00	33.00
87.00	RFS APX16DWW-	3	8.442	14.268	0.67	13.47	0.000	0.000	192.14	0.00	0.00	118.80
87.00	Flat Low Profile Pla	1	8.442	14.268	1.00	26.10	0.000	0.000	372.39	0.00	0.00	1,500.00
100.0	14" x 9" TTA	12	8.785	14.847	0.50	7.38	0.000	0.000	109.57	0.00	0.00	120.00
100.0	Diplexer	6	8.785	14.847	0.50	2.10	0.000	0.000	31.18	0.00	0.00	30.00
100.0	Flat Low Profile Pla	1	8.785	14.847	1.00	26.10	0.000	0.000	387.50	0.00	0.00	1,500.00
100.0	56" x 6" Panel	6	8.785	14.847	0.75	15.53	0.000	0.000	230.50	0.00	0.00	120.00
120.0	Flat Low Profile Pla	1	9.255	15.641	1.00	26.10	0.000	0.000	408.22	0.00	0.00	1,500.00
120.0	48" x 8" Panel	12	9.255	15.641	0.91	40.73	0.000	0.000	637.07	0.00	0.00	168.00
131.0	Flat Low Profile Pla	1	9.490	16.038	1.00	26.10	0.000	0.000	418.58	0.00	0.00	1,500.00
131.0	KMW AM-X-WM-17-65-	3	9.490	16.038	0.72	6.83	0.000	0.000	109.47	0.00	0.00	90.00
131.0	KMW	3	9.490	16.038	0.50	1.69	0.000	0.000	27.18	0.00	0.00	47.70
138.0	Flat Platform w/ Han	1	9.632	16.278	1.00	42.40	0.000	0.000	690.18	0.00	0.00	2,000.00
138.0	6' Omni	3	9.632	16.278	1.00	5.28	0.000	0.000	85.94	0.00	0.00	75.00
138.0	8' Omni	2	9.632	16.278	1.00	4.80	0.000	0.000	78.13	0.00	0.00	80.00
138.0	6' Omni	2	9.632	16.278	1.00	3.52	0.000	0.000	57.30	0.00	0.00	50.00
138.0	8' FM Antenna	1	9.711	16.411	1.00	10.00	0.000	4.000	164.11	0.00	656.46	50.00
138.0	6' Dipole	1	9.632	16.278	1.00	4.00	0.000	0.000	65.11	0.00	0.00	30.00
									5,103.20			10,739.00

Pole : 310968
 Location : WSPT-Westport Rebuild CT, CT
 Height : 140.0 (ft)
 Shape : 18 Sides
 Base Dia : 47.13 (in)
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 Taper : 0.200036 (in/ft)

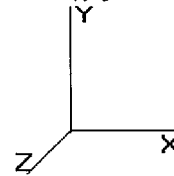
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Base Elev : 0.000 (ft)



Load Case: Twist/Sway	50.00 mph Wind with No Ice	22 Iterations
Gust Response Factor : 1.69		
Dead Load Factor : 1.00		
Wind Load Factor : 1.00		

Linear Appurtenance Segment Forces

Seg Top Elev (ft)	Description	Exposed To Wind	Length (ft)	Weight (lb/ft)	CaAa (sf/ft)	qz (psf)	FX (lb)	Dead Load (lb)
5.00	(12) 1 5/8" Coax	Yes	5.00	9.84	0.40	6.400	21.63	49.20
10.00	(12) 1 5/8" Coax	Yes	5.00	9.84	0.40	6.400	21.63	49.20
15.00	(12) 1 5/8" Coax	Yes	5.00	9.84	0.40	6.400	21.63	49.20
20.00	(12) 1 5/8" Coax	Yes	5.00	9.84	0.40	6.400	21.63	49.20
25.00	(12) 1 5/8" Coax	Yes	5.00	9.84	0.40	6.400	21.63	49.20
30.00	(12) 1 5/8" Coax	Yes	5.00	9.84	0.40	6.400	21.63	49.20
35.00	(12) 1 5/8" Coax	Yes	5.00	9.84	0.40	6.509	22.00	49.20
40.00	(12) 1 5/8" Coax	Yes	5.00	9.84	0.40	6.762	22.85	49.20
45.00	(12) 1 5/8" Coax	Yes	5.00	9.84	0.40	6.993	23.64	49.20
46.25	(12) 1 5/8" Coax	Yes	1.25	9.84	0.40	7.048	5.96	12.30
50.00	(12) 1 5/8" Coax	Yes	3.75	9.84	0.40	7.207	18.27	36.90
51.00	(12) 1 5/8" Coax	Yes	1.00	9.84	0.40	7.248	4.90	9.84
55.00	(12) 1 5/8" Coax	Yes	4.00	9.84	0.40	7.406	20.02	39.36
60.00	(12) 1 5/8" Coax	Yes	5.00	9.84	0.40	7.592	25.66	49.20
65.00	(12) 1 5/8" Coax	Yes	5.00	9.84	0.40	7.768	26.25	49.20
70.00	(12) 1 5/8" Coax	Yes	5.00	9.84	0.40	7.934	26.82	49.20
75.00	(12) 1 5/8" Coax	Yes	5.00	9.84	0.40	8.092	27.35	49.20
76.00	(12) 1 5/8" Coax	Yes	1.00	9.84	0.40	8.123	5.49	9.84
80.00	(12) 1 5/8" Coax	Yes	4.00	9.84	0.40	8.242	22.29	39.36
85.00	(12) 1 5/8" Coax	Yes	5.00	9.84	0.40	8.387	28.35	49.20
87.00	(12) 1 5/8" Coax	Yes	2.00	9.84	0.40	8.442	11.41	19.68
Totals:							421.05	856.08

Pole : 310968
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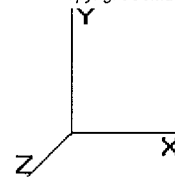
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Base Elev : 0.000 (ft)



Load Case: Twist/Sway	50.00 mph Wind with No Ice	22 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	158.23	1,478.94	0.00	0.00
10.00	155.30	1,451.93	0.00	0.00
15.00	152.37	1,424.93	0.00	0.00
20.00	149.44	1,397.92	0.00	0.00
25.00	146.51	1,370.92	0.00	0.00
30.00	143.58	1,343.91	0.00	0.00
35.00	143.03	1,316.91	0.00	0.00
40.00	145.50	1,289.90	0.00	0.00
45.00	147.28	1,262.90	0.00	0.00
46.25	36.60	311.50	0.00	0.00
50.00	113.52	1,693.96	0.00	0.00
51.00	30.13	446.59	0.00	0.00
55.00	121.79	986.55	0.00	0.00
60.00	152.94	1,208.88	0.00	0.00
65.00	152.92	1,181.88	0.00	0.00
70.00	152.56	1,154.87	0.00	0.00
75.00	151.90	1,127.87	0.00	0.00
76.00	1,027.35	1,909.83	0.00	0.00
80.00	120.46	839.17	0.00	0.00
85.00	149.75	1,024.66	0.00	0.00
87.00	665.05	2,093.10	0.00	0.00
90.00	71.23	565.83	0.00	0.00
93.50	82.22	647.85	0.00	0.00
95.00	35.25	363.10	0.00	0.00
97.25	52.55	538.38	0.00	0.00
100.0	822.39	2,003.47	0.00	0.00
105.0	114.17	367.22	0.00	0.00
110.0	111.57	357.09	0.00	0.00
115.0	108.81	346.96	0.00	0.00
120.0	1,151.20	2,004.84	0.00	0.00
125.0	102.86	288.91	0.00	0.00
130.0	99.68	278.78	0.00	0.00
131.0	574.69	1,692.24	0.00	0.00
135.0	76.76	198.99	0.00	0.00
138.0	1,196.86	2,429.99	0.00	656.46
140.0	36.65	83.08	0.00	0.00
Totals:	8,853.11	38,483.83	0.00	656.46

Pole : 310968
 Location : WSPT-Westport Rebuild CT, CT
 Height : 140.0 (ft)
 Shape : 18 Sides
 Base Dia : 47.13 (in)
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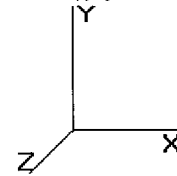
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Base Elev : 0.000 (ft)



Load Case: Twist/Sway	50.00 mph Wind with No Ice	22 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	-8.872	-38.479	0.000	0.000	0.000	-834.619	0.000	0.000	0.000	0.000
5.00	-8.750	-36.992	0.000	0.000	0.000	-790.260	-0.031	0.000	0.031	-0.057
10.00	-8.628	-35.531	0.000	0.000	0.000	-746.512	-0.121	0.000	0.121	-0.114
15.00	-8.507	-34.098	0.000	0.000	0.000	-703.373	-0.272	0.000	0.272	-0.172
20.00	-8.386	-32.692	0.000	0.000	0.000	-660.840	-0.483	0.000	0.483	-0.230
25.00	-8.265	-31.314	0.000	0.000	0.000	-618.912	-0.756	0.000	0.756	-0.289
30.00	-8.145	-29.962	0.000	0.000	0.000	-577.587	-1.090	0.000	1.090	-0.348
35.00	-8.023	-28.638	0.000	0.000	0.000	-536.864	-1.486	0.000	1.486	-0.407
40.00	-7.895	-27.341	0.000	0.000	0.000	-496.752	-1.944	0.000	1.944	-0.466
45.00	-7.754	-26.075	0.000	0.000	0.000	-457.276	-2.463	0.000	2.463	-0.524
46.25	-7.728	-25.759	0.000	0.000	0.000	-447.584	-2.603	0.000	2.603	-0.539
50.00	-7.609	-24.063	0.000	0.000	0.000	-418.605	-3.044	0.000	3.044	-0.584
51.00	-7.587	-23.613	0.000	0.000	0.000	-410.996	-3.168	0.000	3.168	-0.596
55.00	-7.474	-22.621	0.000	0.000	0.000	-380.650	-3.687	0.000	3.687	-0.642
60.00	-7.326	-21.408	0.000	0.000	0.000	-343.282	-4.388	0.000	4.388	-0.694
65.00	-7.176	-20.222	0.000	0.000	0.000	-306.652	-5.142	0.000	5.142	-0.745
70.00	-7.024	-19.063	0.000	0.000	0.000	-270.773	-5.950	0.000	5.950	-0.795
75.00	-6.865	-17.934	0.000	0.000	0.000	-235.653	-6.807	0.000	6.807	-0.842
76.00	-5.816	-16.037	0.000	0.000	0.000	-228.788	-6.985	0.000	6.985	-0.851
80.00	-5.693	-15.196	0.000	0.000	0.000	-205.526	-7.714	0.000	7.714	-0.887
85.00	-5.534	-14.171	0.000	0.000	0.000	-177.061	-8.667	0.000	8.667	-0.930
87.00	-4.840	-12.087	0.000	0.000	0.000	-165.992	-9.060	0.000	9.060	-0.947
90.00	-4.764	-11.521	0.000	0.000	0.000	-151.474	-9.663	0.000	9.663	-0.972
93.50	-4.674	-10.873	0.000	0.000	0.000	-134.800	-10.386	0.000	10.386	-0.999
95.00	-4.635	-10.509	0.000	0.000	0.000	-127.788	-10.702	0.000	10.702	-1.011
97.25	-4.576	-9.970	0.000	0.000	0.000	-117.359	-11.182	0.000	11.182	-1.027
100.0	-3.725	-7.979	0.000	0.000	0.000	-104.773	-11.780	0.000	11.780	-1.047
105.0	-3.614	-7.609	0.000	0.000	0.000	-86.148	-12.920	0.000	12.920	-1.126
110.0	-3.504	-7.250	0.000	0.000	0.000	-68.079	-14.139	0.000	14.139	-1.198
115.0	-3.394	-6.902	0.000	0.000	0.000	-50.560	-15.428	0.000	15.428	-1.259
120.0	-2.202	-4.922	0.000	0.000	0.000	-33.590	-16.775	0.000	16.775	-1.309
125.0	-2.095	-4.635	0.000	0.000	0.000	-22.580	-18.167	0.000	18.167	-1.346
130.0	-1.990	-4.358	0.000	0.000	0.000	-12.105	-19.591	0.000	19.591	-1.371
131.0	-1.375	-2.680	0.000	0.000	0.000	-10.116	-19.879	0.000	19.879	-1.375
135.0	-1.294	-2.482	0.000	0.000	0.000	-4.615	-21.036	0.000	21.036	-1.386
138.0	-0.039	-0.082	0.000	0.000	0.000	-0.077	-21.908	0.000	21.908	-1.389
140.0	-0.037	0.000	0.000	0.000	0.000	0.000	-22.490	0.000	22.490	-1.389

Pole : 310968
 Location : WSPT-Westport Rebuild CT, CT
 Height : 140.0 (ft)
 Shape : 18 Sides
 Base Dia : 47.13 (in)
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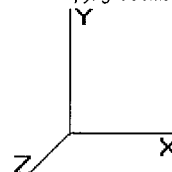
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Base Elev : 0.000 (ft)



Load Case: Twist/Sway	50.00 mph Wind with No Ice	22 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	0.52	0.24	0.00	0.00	0.00	11.79	12.32	52.0	0.0	0.237
5.00	0.51	0.24	0.00	0.00	0.00	11.66	12.18	52.0	0.0	0.234
10.00	0.50	0.25	0.00	0.00	0.00	11.52	12.03	52.0	0.0	0.231
15.00	0.49	0.25	0.00	0.00	0.00	11.36	11.86	52.0	0.0	0.228
20.00	0.48	0.25	0.00	0.00	0.00	11.18	11.67	52.0	0.0	0.225
25.00	0.47	0.25	0.00	0.00	0.00	10.98	11.46	52.0	0.0	0.221
30.00	0.46	0.25	0.00	0.00	0.00	10.76	11.24	52.0	0.0	0.216
35.00	0.46	0.26	0.00	0.00	0.00	10.52	10.98	52.0	0.0	0.211
40.00	0.45	0.26	0.00	0.00	0.00	10.25	10.70	52.0	0.0	0.206
45.00	0.44	0.26	0.00	0.00	0.00	9.94	10.39	52.0	0.0	0.200
46.25	0.43	0.26	0.00	0.00	0.00	9.86	10.31	52.0	0.0	0.198
50.00	0.41	0.26	0.00	0.00	0.00	9.61	10.03	52.0	0.0	0.193
51.00	0.40	0.26	0.00	0.00	0.00	9.03	9.44	52.0	0.0	0.182
55.00	0.39	0.26	0.00	0.00	0.00	8.74	9.14	52.0	0.0	0.176
60.00	0.38	0.26	0.00	0.00	0.00	8.33	8.72	52.0	0.0	0.168
65.00	0.37	0.26	0.00	0.00	0.00	7.88	8.26	52.0	0.0	0.159
70.00	0.36	0.27	0.00	0.00	0.00	7.38	7.76	52.0	0.0	0.149
75.00	0.35	0.27	0.00	0.00	0.00	6.83	7.19	52.0	0.0	0.138
76.00	0.31	0.23	0.00	0.00	0.00	6.71	7.04	52.0	0.0	0.135
80.00	0.30	0.23	0.00	0.00	0.00	6.34	6.66	52.0	0.0	0.128
85.00	0.29	0.23	0.00	0.00	0.00	5.83	6.13	52.0	0.0	0.118
87.00	0.25	0.20	0.00	0.00	0.00	5.61	5.87	52.0	0.0	0.113
90.00	0.25	0.20	0.00	0.00	0.00	5.33	5.59	52.0	0.0	0.108
93.50	0.24	0.21	0.00	0.00	0.00	4.98	5.23	52.0	0.0	0.101
95.00	0.23	0.21	0.00	0.00	0.00	4.82	5.07	52.0	0.0	0.097
97.25	0.58	0.54	0.00	0.00	0.00	11.49	12.10	51.3	0.0	0.236
100.00	0.47	0.45	0.00	0.00	0.00	10.66	11.16	51.8	0.0	0.216
105.00	0.47	0.45	0.00	0.00	0.00	9.42	9.92	52.0	0.0	0.191
110.00	0.46	0.45	0.00	0.00	0.00	8.02	8.52	52.0	0.0	0.164
115.00	0.46	0.45	0.00	0.00	0.00	6.44	6.94	52.0	0.0	0.134
120.00	0.34	0.31	0.00	0.00	0.00	4.64	5.01	52.0	0.0	0.096
125.00	0.33	0.30	0.00	0.00	0.00	3.39	3.76	52.0	0.0	0.072
130.00	0.33	0.30	0.00	0.00	0.00	1.99	2.37	52.0	0.0	0.046
131.00	0.20	0.21	0.00	0.00	0.00	1.69	1.93	52.0	0.0	0.037
135.00	0.20	0.21	0.00	0.00	0.00	0.83	1.09	52.0	0.0	0.021
138.00	0.01	0.01	0.00	0.00	0.00	0.01	0.02	52.0	0.0	0.000
140.00	0.00	0.01	0.00	0.00	0.00	0.00	0.01	52.0	0.0	0.000

Pole : 310968
 Location : WSPT-Westport Rebuild CT, CT
 Height : 140.0 (ft)
 Shape : 18 Sides
 Base Dia : 47.13 (in)
 Top Dia : 20.50 (in)
 Taper : 0.200036 (in/ft)

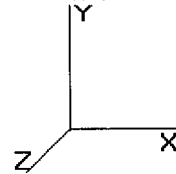
Code: TIA/EIA-222 Rev F

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Page: 21

Base Elev : 0.000 (ft)



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	25.6	0.00	38.45	0.00	0.00	2410.86	34.59	52.0	0.00	0.666
Ice	21.8	0.00	44.97	0.00	0.00	2093.59	30.45	51.3	97.25	0.593
Twist/Sway	8.9	0.00	38.48	0.00	0.00	834.62	12.32	52.0	0.00	0.237

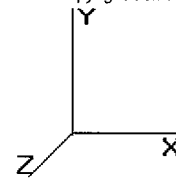
Pole : 310968
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 Page : 22

Base Elev : 0.000 (ft)



Base Summary

Reactions

Original Design			Analysis			
Moment (kip-ft)	Axial (kip)	Shear (kip)	Moment (kip-ft)	Axial (kip)	Shear (kip)	Moment Design %
3,550.00	37.00	35.00	2,410.86	44.97	25.64	67.91

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
50.0	3.250	54.000	Clipped	0	12.00	9.349	281.84	49.99	17.12	0.34

Anchor Bolts

Bolt Circle	Num Bolts	Bolt Type	Bolt Dia (in)	Yield (ksi)	Ultimate (ksi)	Arrange	Cluster Dist (in)	Start Angle (deg)	Compression			Tension		
									Force (kip)	Allow (kip)	Ratio	Force (kip)	Allow (kip)	Ratio
54.00	16	2.25" 18J	2.25	75.00	100.00	Clustered	6.00	45.0	136.75	194.98	0.70	131.13	194.98	0.67

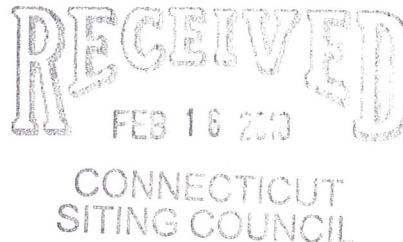
180 Trumbull Street
Hartford, CT 06103-3597
Main (860) 275-8200
Fax (860) 275-8299
kbaldwin@rc.com
Direct (860) 275-8345

ORIGINAL

February 16, 2010

Via Hand Delivery

S. Derek Phelps
Executive Director
Connecticut Siting Council
10 Franklin Square
New Britain, CT 06051



Re: **Notice of Exempt Modification – Antenna Swap
Bayberry Lane, Westport, Connecticut**

Dear Mr. Phelps:

Cellco Partnership d/b/a Verizon Wireless (“Cellco”) currently maintains wireless telecommunications antennas at the 76-foot level on the existing 140-foot tower at the above-referenced address. The tower is owned by American Tower Corporation. The Council approved Cellco’s use of the existing tower in 1998. Cellco now intends to modify its installation by replacing six (6) of its cellular antennas with three (3) model DB854DG65ESX cellular antennas and three (3) model P65-16-XL-2 LTE antennas, all at the same 76-foot level on the tower. Attached behind Tab 1 are the specifications for the proposed 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 Gordon F. Joseloff, First Selectman for the Town of Westport. Please note that the Town of Westport is the owner 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 any increase in the height of the existing tower. Cellco’s antennas will be located at the same 76-foot level on the existing 140-foot tower.

*Law Offices*

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10205993-v1

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S. Derek Phelps
February 16, 2010
Page 2

2. The proposed modifications will not involve any modifications to ground-mounted equipment and, therefore, will not require the extension of the site boundaries.

3. The proposed modifications will not increase noise levels at the facility by six decibels or more.

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

Also attached is a Structural Analysis Report confirming that the tower and foundation can support Cellco's proposed antennas modification. (See 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:

Gordon F. Joseloff, Westport First Selectman
Sandy M. Carter



HORIZONTAL BEAMWIDTH	65°	65°	65°
FREQUENCY RANGE	824-960 MHz	806-960 MHz	806-896 MHz
	DUAL ARRAY	DUAL ARRAY	DUAL ARRAY
	12.3 dBd / 1° to 15° Tilt	13 & 13.5 dBd / 0° Tilt	13 dBd / 0° Tilt
**MODEL	*D100-0036-0061	DB854LG65AXY	DB854DG65ESX
TYPE	±45° Panel, Remote TILT	±45° Directed Dipole	±45° Diversity Panel

ELECTRICAL SPECIFICATIONS

	824-960	806-896	870-960	806-896
Frequency Range (MHz)	824-960	806-896	870-960	806-896
Gain (dBd/dBi)	12.3 / 14.4	13 / 15.1	13.5 / 15.6	13 / 15.1
Horizontal Beamwidth (Deg.)	65	65	65	65
Elevation Beamwidth (Deg.)	17	16	15	14
USLS (dB)	N/A	>17	>17	>18
Null Fill (dB) – Below Peak	N/A	N/A	N/A	N/A
Beam Tilt (Deg.)	1-15	0	0	0
VSWR	<1.5:1 (824-870 MHz) <1.38:1 (870-960 MHz)	<1.33:1	<1.33:1	<1.33:1
Front-To-Back Ratio (dB)	25	40	40	30
Isolation (dB)	>30	>30	>30	>30
Max. Input Power (Watts)	500	500	500	500
Polarization	+45°/-45°	+45°/-45°	+45°/-45°	+45°/-45°
Connector Location	Bottom	Back	Back	Bottom
Connector Type	7-16 DIN - Female	7-16 DIN - Female	7-16 DIN - Female	7-16 DIN - Female

MECHANICAL SPECIFICATIONS

	D100-0036-0061	DB854LG65AXY	DB854DG65ESX
Length (inch/mm)	46.8 / 1,189	48 / 1,219	48.5 / 1,232
Width (inch/mm)	10.6 / 269	13 / 330	12.5 / 318
Depth (inch/mm)	5.4 / 137	7 / 178	6 / 152
Net Weight (lbs/kg)	22 / 10.0	21 / 9.5	18.5 / 8.4
Max. Flat Plate Area (ft²/m²)	2.33 / 0.22	2.15 / 0.2	1.83 / 0.17
Max. Wind Load at 100 mph (lb/f/N)	93 / 414	118 / 527	100 / 445
Max. Wind Speed (mph/kmh)	125 / 201	125 / 201	150 / 241
Radome Material	UV Protected Radome	ABS, UV Resistant	ABS, UV Resistant
Reflector Material	Aluminum	Pass. Aluminum	Pass. Aluminum
Radiator Material	Aluminum	Aluminum	Aluminum
Hardware Material	Galvanized Steel	Galvanized Steel	Galvanized Steel
Color	Off White	Light Gray	Light Gray
Std. Mounting Hardware	D000-0002-0000	DB380	DB380
Optional Downtilt Kit	N/A	DB5083	DB5083
Optional Special Mounting	N/A	DB5084-AZ	DB5084-AZ

Specifications are subject to change. Please see our website for the latest information.

*TELE-TILT® compatible.

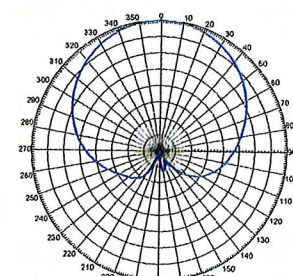
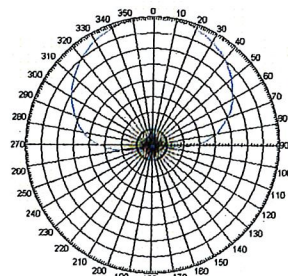
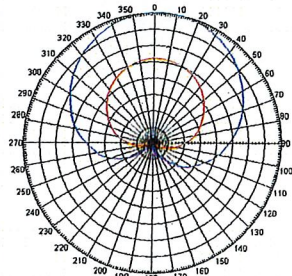
**When ordering CTSDG/D100 series antennas, add an "M" to the end of the model number to include mounting hardware. The standard mounting hardware for the CTSDG/D100 antennas includes mechanical downtilting.

D100-0036-0061

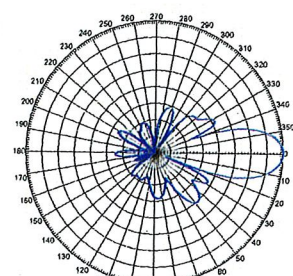
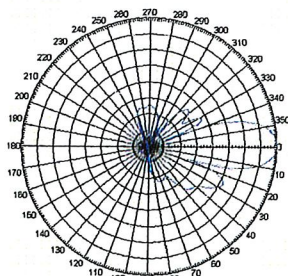
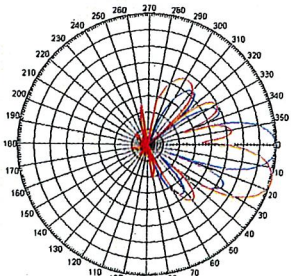
DB854LG65AXY

DB854DG65ESX

Azimuth Pattern



Elevation Pattern



Scale: 10° radials, 5 dB per division

P65-16-XL

Very Low Broadband Antennas

-2

POLARIZATION: Dual linear $\pm 45^\circ$
 FREQUENCY (MHz): 698-894
 HORIZONTAL BEAM WIDTH ($^\circ$): 65
 GAIN (dBi/dBd): 16.0/13.9
 TILT: 2
 LENGTH: 72"

ELECTRICAL SPECIFICATIONS*

	698-806	698-894	806-894
Frequency range (MHz)			
Frequency band (MHz)	698-806		806-894
Gain (dBi/dBd)	15.5/13.4		16.0/13.9
Polarization			
Nominal Impedance (Ω)			
VSWR			
Horizontal beam width, -3 dB ($^\circ$)	68		65
Vertical beam width, -3 dB ($^\circ$)	10.5		9.5
Electrical down tilt ($^\circ$)			
Side lobe suppression, vertical 1st upper (dB)	> 15		> 15
Isolation between inputs (dB)	> 30		> 30
Tracking, horizontal plane $\pm 60^\circ$ (dB)	< 2		< 2
First null fill (dB)	-		-
Vertical beam squint ($^\circ$)	< 0.5		< 0.5
Front to back ratio (dB)	> 30		> 30
Front to back ratio, total power (dB)	> 25		> 25
Cross polar discrimination (XPD) 0° (dB)	> 15	> 15	> 15
Cross polar discrimination (XPD) $\pm 60^\circ$ (dB)	> 10		> 10
Far field coupling			
IM3, 2xTx@43dBm (dBc)	-153		
IM7, 2xTx@43dBm (dBc)			
Power handling, average per input (W)			
Power handling, average total (W)			

MECHANICAL SPECIFICATIONS*

Connector	2 X 7/16 DIN Female
Connector position	Bottom
Dimensions, HxWxD, mm (ft)	72" x 12" x 5" (1829 x 305 x 125)
Mounting	Pre-mounted Tilt Brackets
Weight, with brackets, kg (lbs)	44 (20)
Weight, without brackets, kg (lbs)	33 (15)
Wind load, frontal/lateral/rear side 42 m/s Cd=1.6 (N)	1380
Maximum operational wind speed, m/s (mph)	100 (45)
Survival wind speed, m/s (mph)	125 (55)
Lightning protection	DC Ground
Radome material	PVC
Radome colour	Light Grey
Package size, HxWxD, mm (ft)	82" x 16" x 10" (2082 x 400 x 255)
Shipping weight, kg (lbs)	55 (25)
RET	N/A
Brackets	7256.00, 7454.00, 2210.00

*All specifications subject to change without notice. Please contact your Powerwave representative for complete performance data.

ANTENNA PATTERNS*

For detailed patterns visit <http://www.powerwave.com/rpa/>.

Site Name: Westport 2 Tower Height: Verizon @ 76ft		General	Power	Density				
CARRIER	# OF CHAN.	WATTS ERP	HEIGHT	CALC. POWER DENS	FREQ.	MAX. PERMISS. EXP.	FRACTION MPE	Total
*T-Mobile	8	194	87	0.0737	1945	1.0000	7.37%	
*T-Mobile	2	776	87	0.0737	2100	1.0000	7.37%	
*Cingular	11	100	100	0.0396	880	0.5867	6.74%	
*Sprint	11	360.62	130	0.0844	1962.5	1.0000	8.44%	
*AT&T	4	153.19	110	0.0182	1945	1.0000	1.82%	
*Nextel	4	50	120	0.0050	851	0.5673	0.88%	
*FBI	1	238.86	145	0.0041	167.6875	0.2000	2.04%	
*Westport Fire	1	562.34	145	0.0096	460.575	0.3071	3.13%	
*Westport Fire	1	1068.45	145	0.0183	460.625	0.3071	5.95%	
*Westport Fire Low Band	1	50	145	0.0009	46.22	0.2000	0.43%	
*Westport Police	1	1000	145	0.0171	855.712	0.5705	3.00%	
*Westport Police	1	398.11	145	0.0068	866.925	0.5780	1.18%	
*Westport Townwide	1	56.25	145	0.0010	453.775	0.3025	0.32%	
Verizon	3	407	76	0.0760	1970	1.0000	7.60%	
Verizon	9	311	76	0.1742	869	0.5793	30.08%	
Verizon	1	719	76	0.0448	757	0.4973	9.00%	
								95.35%
* Source: Siting Council								



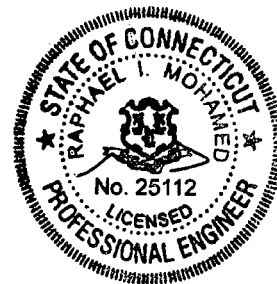
AMERICAN TOWER

Structural Analysis Report

Structure : 140 ft PennSummit Monopole
ATC Site Name : WSPT-Westport Rebuild CT, CT
ATC Site Number : 310968
Proposed Carrier : Verizon
Carrier Site Name : Westport 2
Carrier Site Number : N/A
County : Fairfield
Eng. Number : 44309523
Date : February 25, 2010*
Usage : 70%
Portholes Required : No

Submitted by:
Christina Minor
Design Engineer

American Tower Engineering Services
400 Regency Forest Drive
Cary, NC 27518
Phone: 919-468-0112



2/26/10

Introduction

The purpose of this report is to summarize results of the structural analysis performed on the 140 ft PennSummit Monopole located east of the intersection of Merritt Parkway and Bayberry Lane, Westport, CT 06880, Fairfield County (ATC site #310968). The tower was originally designed and manufactured by PennSummit (PJF Job #29204-0171, dated July 1, 2004).

Analysis

The tower was analyzed using Semaan Engineering Solutions, Inc., Software. The analysis assumes that the tower is in good, undamaged, and non-corroded condition.

Basic Wind Speed: 85 mph (Fastest Mile)
 Radial Ice: 74 mph (Fastest Mile) w/ 1/2" ice
 Code: TIA/EIA-222-F / 2003 IBC Criteria per Section 1609.1.1, Exception (5) and Section 3108.4 w/ 2005 CT Supplement and 2008 CT Amendments

Antenna Loads

The following antenna loads were used in the tower analysis.

Existing Antennas

Elev. (ft)	Qty	Antennas	Mount	Coax	Carrier
138.0	3	6' Omni	Platform w/ Handrails	(3) 1 5/8"	Westport Fire Dept.
	2	8' Omni		(2) 7/8"	
	1	6' Dipole		(1) 7/8"	
	1	8' FM Antenna		(2) 7/8"	US Treasury
	2	6' Omni		(2) 7/8"	
131.0	3	KMW AM-X-WM-17-65-00T	Low Profile Platform	(6) 1 1/4"	Sprint Nextel
	3	KMW KMDAPS2020000		-	
120.0	12	48" x 8" Panel	Low Profile Platform	(12) 1 1/4"	
100.0	12	14" x 9" TTA	Low Profile Platform	-	AT&T Mobility
	6	Diplexer		(1) 0.315"	
	6	56" x 6" Panel		(12) 1 5/8"	
87.0	3	RFS ATMAA1412D-1A20	Low Profile Platform	-	T-Mobile
	3	Andrew ETW190VS12UB		-	
	3	RFS APX16DWV-16DWV-S-E-ACU		(12) 1 5/8"	

Proposed Antennas

Elev. (ft)	Qty	Antennas	Mount	Coax	Carrier
76.0	3	Powerwave P65-16-XL-2	Low Profile Platform	(3) 1 5/8"	Verizon
	3	Andrew 932DG65T2E-M		(6) 1 5/8"	
	6	Andrew DB844H80E-XY		(3) 1 5/8"	

Install proposed coax inside of monopole.

Results

The maximum structure usage is: 70%

Additional exit and/or entry ports may be required to accommodate the running of the proposed lines to the proposed antennas. These additional ports **may not** be installed without installation drawings providing the location, size and welding requirements of each port.

To ensure compliance with all conditions of this structural analysis, port installation drawings shall be provided by American Tower's Engineering Department under a subsequent project.

Pole Reactions	Original Design Reactions	Current Analysis Reactions	% Of Design
Moment (ft-kips)	3,550.0	2,410.9	68
Shear (kips)	35.0	25.6	73

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

Conclusion

Based on the analysis results, the structure meets the requirements per TIA/EIA-222-F and 2003 IBC standards with 2005 CT supplement and 2008 CT amendments.

The tower and foundation can support the existing and proposed antennas with the TX line distribution as described in this report.

If you have any questions or require additional information, please call 919-466-5619.

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:

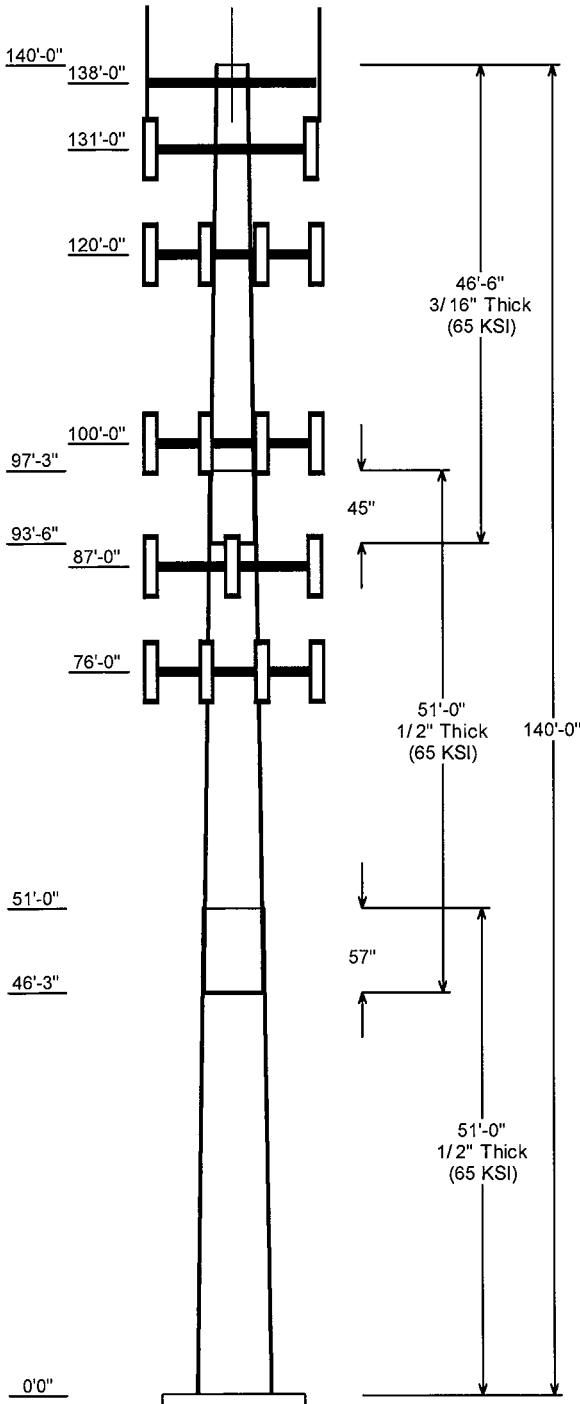
- Information supplied by the client regarding the structure itself, the antenna and feed line loading on the structure and its components, or other relevant information.
- Information from drawings in the possession of American Tower Corporation, or generated by field inspections or measurements of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

It is the responsibility of the client to ensure that the information provided to ATC Engineering 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 are in an un-corroded condition and have not deteriorated; and we, therefore, assume that their capacity has not significantly changed from the "as new" condition.

All services will be performed to the codes specified by the client, and we do not imply to meet any other codes or requirements unless explicitly agreed in writing. 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. In the absence of information to the contrary, all work will be performed in accordance with the latest relevant revision of ANSI/EIA-222.

All services are performed, results obtained, and recommendations made in accordance with generally accepted engineering principles and practices. ATC Engineering 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 :	310968	Code:	TIA/EIA-222 Rev F
Description :	140 ft PennSummit Monopole		
Client :	Verizon		
Location :	WSPT-Westport Rebuild CT, CT		
Shape :	18 Sides	Base Elev (ft):	0.00
Height :	140.00 (ft)	Taper:	0.200036(in/ft)

Sections Properties								
Shaft Section	Length (ft)	Diameter (in)		Thick Joint (in)	Type	Overlap Length (in)	Taper (in/ft)	Steel Grade (ksi)
		Across Top	Flats Bottom					
1	51.000	36.92	47.13	0.500		0.000	0.200036	65
2	51.000	28.67	38.87	0.500	Slip Joint	57.000	0.200036	65
3	46.500	20.50	29.80	0.188	Slip Joint	45.000	0.200036	65

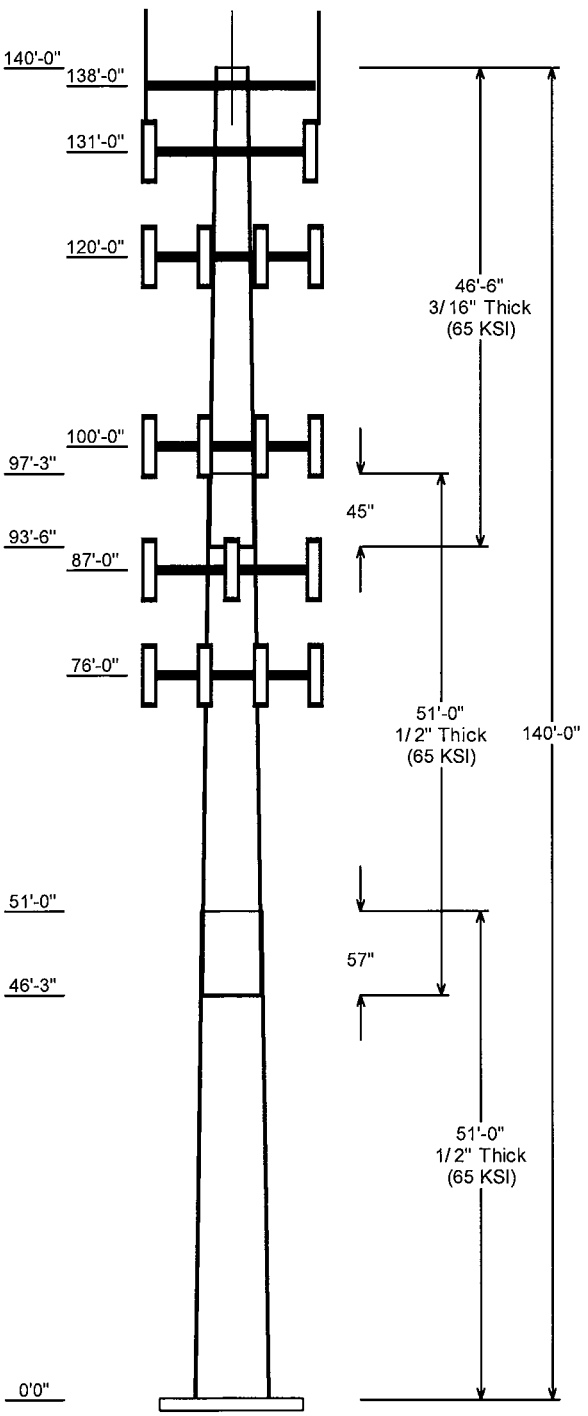
Discrete Appurtenance			
Attach Elev (ft)	Force Elev (ft)	Qty	Description
138.000	138.000	1	Flat Platform w/ Handrails
138.000	138.000	3	6' Omni
138.000	138.000	2	8' Omni
138.000	138.000	2	6' Omni
138.000	142.000	1	8' FM Antenna
138.000	138.000	1	6' Dipole
131.000	131.000	1	Flat Low Profile Platform
131.000	131.000	3	KMW AM-X-WM-17-65-00T
131.000	131.000	3	KMW KMDAPS2020000
120.000	120.000	1	Flat Low Profile Platform
120.000	120.000	12	48" x 8" Panel
100.000	100.000	12	14" x 9" TTA
100.000	100.000	6	Diplexer
100.000	100.000	1	Flat Low Profile Platform
100.000	100.000	6	56" x 6" Panel
87.000	87.000	3	RFS ATMAA1412D-1A20
87.000	87.000	3	Andrew ETW190VS12UB
87.000	87.000	3	RFS APX16DWW-16DWW-S-E-
87.000	87.000	1	Flat Low Profile Platform
76.000	76.000	6	Andrew DB844H80E-XY
76.000	76.000	3	Andrew 932DG65T2E-M
76.000	76.000	3	Powerwave P65-16-XL-2
76.000	76.000	1	Flat Low Profile Platform

Linear Appurtenance			
Elev (ft) From	To	Description	Exposed To Wind
0.000	76.000	1 5/8" Coax	No
0.000	87.000	1 5/8" Coax	Yes
0.000	100.0	0.315" Coax	No
0.000	100.0	1 5/8" Coax	No
0.000	120.0	1 1/4" Coax	No
0.000	131.0	1 1/4" Coax	No
0.000	138.0	1 5/8" Coax	No
0.000	138.0	7/8" Coax	No
0.000	138.0	7/8" Coax	No

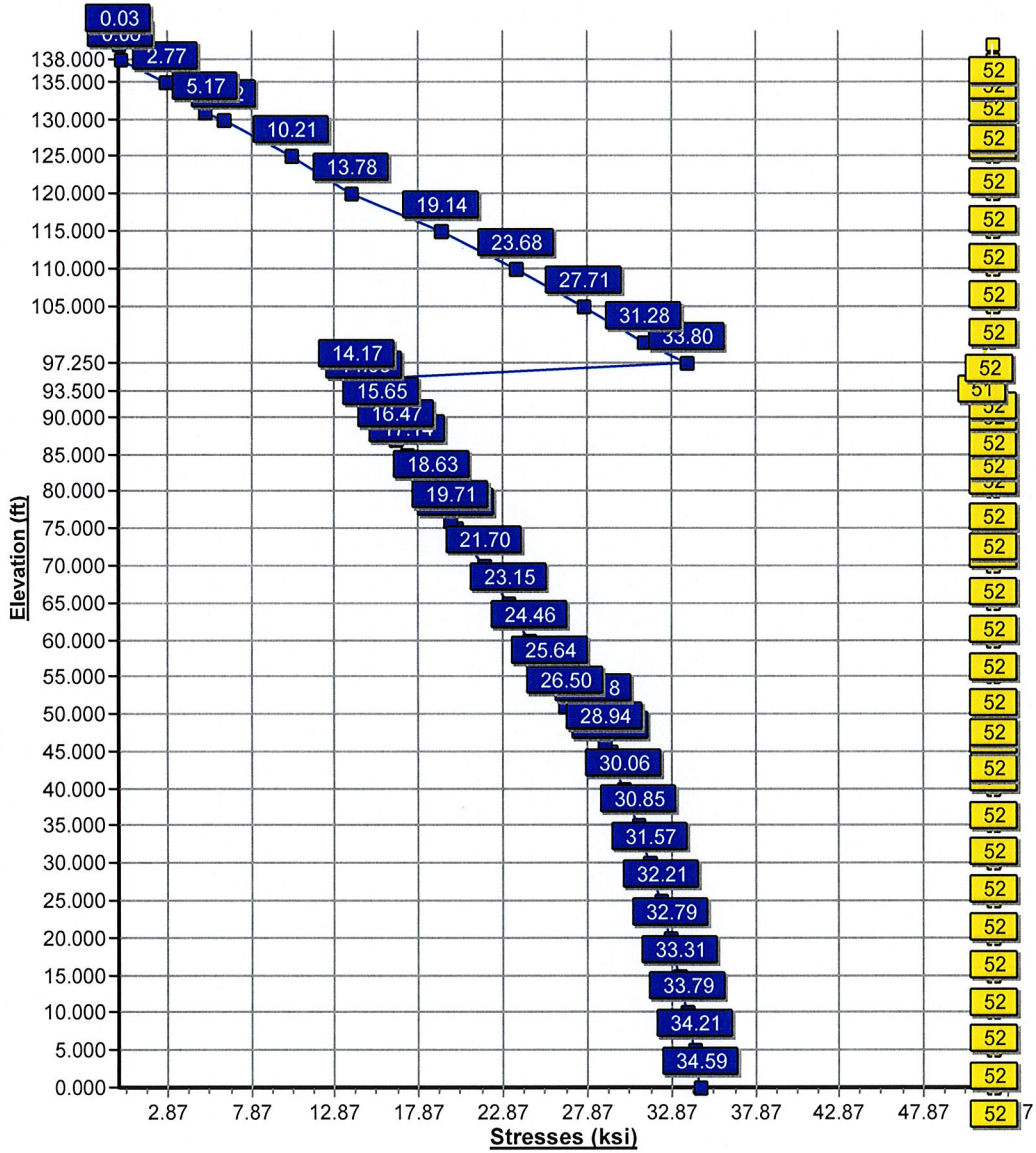
Load Cases	
No Ice	85.00 mph Wind with No Ice
Ice	73.61 mph Wind with Ice
Twist/Sway	50.00 mph Wind with No Ice

Reactions			
Load Case	Moment (Kip-ft)	Shear (Kips)	Axial (Kips)
No Ice	2410.86	25.64	38.45
Ice	2093.59	21.78	44.97
Twist/Sway	834.62	8.87	38.48

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



Load Case : No Ice
Max Stress 66.6% at 0.0ft



Pole : 310968
 Location : WSPT-Westport Rebuild CT, CT
 Height : 140.0 (ft)
 Shape : 18 Sides
 Base Dia : 47.13 (in)
 Top Dia : 20.50 (in)
 Taper : 0.200036 (in/ft)

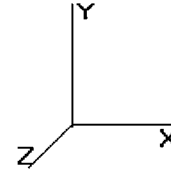
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Base Elev : 0.000 (ft)



Shaft Section Properties

Sect Num	Length (ft)	Thick (in)	Fv (ksi)	Joint Type	Slip		Bottom						Top						
					Joint Len (in)	Weight (lb)	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	51.000	0.5000	65		0.00	11,437	47.13	0.000	74.00	20328.7	14.86	94.26	36.92	51.00	57.81	9692.3	11.26	73.86	0.20004
2	51.000	0.5000	65	Slip Joint	57.00	9,165	38.87	46.25	60.90	11333.7	11.95	77.76	28.67	97.25	44.71	4485.1	8.35	57.35	0.20004
3	46.500	0.1875	65	Slip Joint	45.00	2,351	29.80	93.50	17.62	1952.7	26.26	158.9	20.50	140.0	12.09	630.1	17.52	109.33	0.20004
					Shaft Weight	22,952													

Discrete Appurtenance Properties

Attach Elev (ft)	Description	Qty	Weight (lb)	No Ice CaAa (sf)	CaAa Factor	Weight (lb)	Ice CaAa (sf)	CaAa Factor	Distance From Face (ft)	Vert Ecc (ft)
138.0	Flat Platform w/ Handrails	1	2000.00	42.400	1.00	2450.00	48.400	1.00	0.000	0.000
138.0	6' Omni	3	25.00	1.760	1.00	38.24	2.130	1.00	0.000	0.000
138.0	8' Omni	2	40.00	2.400	1.00	62.00	3.230	1.00	0.000	0.000
138.0	6' Omni	2	25.00	1.760	1.00	38.24	2.130	1.00	0.000	0.000
138.0	8' FM Antenna	1	50.00	10.000	1.00	75.00	15.000	1.00	0.000	4.000
138.0	6' Dipole	1	30.00	4.000	1.00	50.00	5.500	1.00	0.000	0.000
131.0	Flat Low Profile Platform	1	1500.00	26.100	1.00	1700.00	31.600	1.00	0.000	0.000
131.0	KMW AM-X-WM-17-65-00T	3	30.00	3.160	0.72	47.00	3.670	0.72	0.000	0.000
131.0	KMW KMDAPS2020000	3	15.90	1.130	0.50	23.35	1.360	0.50	0.000	0.000
120.0	Flat Low Profile Platform	1	1500.00	26.100	1.00	1700.00	31.600	1.00	0.000	0.000
120.0	48" x 8" Panel	12	14.00	3.730	0.91	40.30	4.290	0.91	0.000	0.000
100.0	14" x 9" TTA	12	10.00	1.230	0.50	18.00	1.460	0.50	0.000	0.000
100.0	Diplexer	6	5.00	0.700	0.50	9.80	0.880	0.50	0.000	0.000
100.0	Flat Low Profile Platform	1	1500.00	26.100	1.00	1700.00	31.600	1.00	0.000	0.000
100.0	56" x 6" Panel	6	20.00	3.450	0.75	38.03	3.980	0.75	0.000	0.000
87.00	RFS ATMAA1412D-1A20	3	13.00	1.170	0.50	20.60	1.390	0.50	0.000	0.000
87.00	Andrew ETW190VS12UB	3	11.00	0.760	0.50	16.30	0.950	0.50	0.000	0.000
87.00	RFS APX16DWV-16DWV-S-E-	3	39.60	6.700	0.67	69.38	7.350	0.67	0.000	0.000
87.00	Flat Low Profile Platform	1	1500.00	26.100	1.00	1700.00	31.600	1.00	0.000	0.000
76.00	Andrew DB844H80E-XY	6	10.00	3.730	0.88	35.38	4.290	0.88	0.000	0.000
76.00	Andrew 932DG65T2E-M	3	9.50	3.490	0.76	28.72	4.040	0.76	0.000	0.000
76.00	Powerwave P65-16-XL-2	3	33.00	8.400	0.75	77.53	9.230	0.75	0.000	0.000
76.00	Flat Low Profile Platform	1	1500.00	26.100	1.00	1700.00	31.600	1.00	0.000	0.000
Totals		78	10739.00			13437.69			Number of Loadings :	23

Linear Appurtenance Properties

Elev From (ft)	Elev To (ft)	Description	No Ice Weight (lb/ft)	CaAa (sf/ft)	Ice Weight (lb/ft)	CaAa (sf/ft)	Exposed To Wind
0.00	138.00	(3) 1 5/8" Coax	2.46	0.00	0.00	0.00	N
0.00	138.00	(5) 7/8" Coax	2.66	0.00	0.00	0.00	N
0.00	138.00	(2) 7/8" Coax	0.66	0.00	0.00	0.00	N
0.00	131.00	(6) 1 1/4" Coax	3.78	0.00	0.00	0.00	N
0.00	120.00	(12) 1 1/4" Coax	7.56	0.00	0.00	0.00	N
0.00	100.00	(1) 0.315" Coax	0.05	0.00	0.00	0.00	N
0.00	100.00	(12) 1 5/8" Coax	9.84	0.00	0.00	0.00	N
0.00	87.00	(12) 1 5/8" Coax	9.84	0.40	20.00	0.50	Y
0.00	76.00	(12) 1 5/8" Coax	9.84	0.00	0.00	0.00	N
Total Weight			4,792.44 (lb)		1,740.00 (lb)		

Pole : 310968
 Location : WSPT-Westport Rebuild CT, CT
 Height : 140.0 (ft)
 Shape : 18 Sides
 Base Dia : 47.13 (in)
 Top Dia : 20.50 (in)
 Taper : 0.200036 (in/ft)

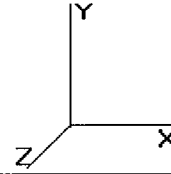
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Base Elev : 0.000 (ft)



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		0.5000	47.130	73.999	20,328.7	14.86	94.26	65	52	0.0
5.00		0.5000	46.130	72.412	19,048.5	14.50	92.26	65	52	1,245.5
10.00		0.5000	45.130	70.825	17,823.2	14.15	90.26	65	52	1,218.5
15.00		0.5000	44.129	69.237	16,651.5	13.80	88.26	65	52	1,191.5
20.00		0.5000	43.129	67.650	15,532.4	13.45	86.26	65	52	1,164.5
25.00		0.5000	42.129	66.063	14,464.6	13.09	84.26	65	52	1,137.5
30.00		0.5000	41.129	64.476	13,446.8	12.74	82.26	65	52	1,110.5
35.00		0.5000	40.129	62.889	12,478.0	12.39	80.26	65	52	1,083.5
40.00		0.5000	39.129	61.301	11,556.9	12.04	78.26	65	52	1,056.5
45.00		0.5000	38.128	59.714	10,682.2	11.68	76.26	65	52	1,029.5
46.25	Bot - Section 2	0.5000	37.878	59.317	10,470.7	11.59	75.76	65	52	253.1
50.00		0.5000	37.128	58.127	9,852.8	11.33	74.26	65	52	1,518.9
51.00	Top - Section 1	0.5000	37.928	59.396	10,512.6	11.61	75.86	65	52	399.9
55.00		0.5000	37.128	58.127	9,852.7	11.33	74.26	65	52	799.8
60.00		0.5000	36.128	56.539	9,067.4	10.98	72.26	65	52	975.5
65.00		0.5000	35.128	54.952	8,325.0	10.62	70.26	65	52	948.5
70.00		0.5000	34.128	53.365	7,624.3	10.27	68.26	65	52	921.4
75.00		0.5000	33.127	51.778	6,964.0	9.92	66.25	65	52	894.4
76.00		0.5000	32.927	51.460	6,836.7	9.85	65.85	65	52	175.6
80.00		0.5000	32.127	50.190	6,343.0	9.57	64.25	65	52	691.8
85.00		0.5000	31.127	48.603	5,760.0	9.21	62.25	65	52	840.4
87.00		0.5000	30.727	47.968	5,537.3	9.07	61.45	65	52	328.6
90.00		0.5000	30.127	47.016	5,214.0	8.86	60.25	65	52	484.8
93.50	Bot - Section 3	0.5000	29.427	45.905	4,853.0	8.61	58.85	65	52	553.3
95.00		0.5000	29.127	45.429	4,703.5	8.51	58.25	65	52	322.6
97.25	Top - Section 2	0.1875	29.052	17.177	1,808.1	25.56	154.94	65	51	477.6
100.0		0.1875	28.501	16.850	1,706.7	25.04	152.01	65	52	159.2
105.0		0.1875	27.501	16.255	1,532.1	24.10	146.67	65	52	281.6
110.0		0.1875	26.501	15.659	1,369.9	23.16	141.34	65	52	271.5
115.0		0.1875	25.501	15.064	1,219.5	22.22	136.00	65	52	261.4
120.0		0.1875	24.501	14.469	1,080.6	21.28	130.67	65	52	251.2
125.0		0.1875	23.501	13.874	952.7	20.34	125.34	65	52	241.1
130.0		0.1875	22.500	13.278	835.2	19.40	120.00	65	52	231.0
131.0		0.1875	22.300	13.159	813.0	19.21	118.94	65	52	45.0
135.0		0.1875	21.500	12.683	727.9	18.46	114.67	65	52	175.9
138.0		0.1875	20.900	12.326	668.1	17.89	111.47	65	52	127.7
140.0		0.1875	20.500	12.088	630.1	17.52	109.33	65	52	83.1
										22,952.4

Pole : 310968
 Location : WSPT-Westport Rebuild CT, CT
 Height : 140.0 (ft)
 Shape : 18 Sides
 Base Dia : 47.13 (in)
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 Taper : 0.200036 (in/ft)

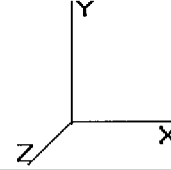
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Base Elev : 0.000 (ft)



Load Case: No Ice	85.00 mph Wind with No Ice	23 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 18.496	31.25 333.83	0.650	0.00	0.00	0.000	0.00	0.00	0.0	0.0	0.0
5.00		0.00	1.00 18.496	31.25 326.75	0.650	0.00	5.00	19.429	12.63	394.8	394.8	0.0	1,245.5
10.00		0.00	1.00 18.496	31.25 319.66	0.650	0.00	5.00	19.012	12.36	386.3	386.3	0.0	1,218.5
15.00		0.00	1.00 18.496	31.25 312.58	0.650	0.00	5.00	18.596	12.09	377.8	377.8	0.0	1,191.5
20.00		0.00	1.00 18.496	31.25 305.49	0.650	0.00	5.00	18.179	11.82	369.4	369.4	0.0	1,164.5
25.00		0.00	1.00 18.496	31.25 298.41	0.650	0.00	5.00	17.762	11.55	360.9	360.9	0.0	1,137.5
30.00		0.00	1.00 18.496	31.25 291.33	0.650	0.00	5.00	17.345	11.27	352.4	352.4	0.0	1,110.5
35.00		0.00	1.01 18.810	31.78 286.64	0.650	0.00	5.00	16.929	11.00	349.8	349.8	0.0	1,083.5
40.00		0.00	1.05 19.541	33.02 284.88	0.650	0.00	5.00	16.512	10.73	354.4	354.4	0.0	1,056.5
45.00		0.00	1.09 20.210	34.15 282.31	0.650	0.00	5.00	16.095	10.46	357.3	357.3	0.0	1,029.5
46.25	Bot - Section 2	0.00	1.10 20.369	34.42 281.56	0.650	0.00	1.25	3.959	2.57	88.6	88.6	0.0	253.1
50.00		0.00	1.12 20.827	35.19 279.07	0.650	0.00	3.75	12.032	7.82	275.3	275.3	0.0	1,518.9
51.00	Top - Section 1	0.00	1.13 20.946	35.39 278.35	0.650	0.00	1.00	3.169	2.06	72.9	72.9	0.0	399.9
55.00		0.00	1.15 21.402	36.17 282.90	0.650	0.00	4.00	12.509	8.13	294.1	294.1	0.0	799.8
60.00		0.00	1.18 21.941	37.08 278.72	0.650	0.00	5.00	15.262	9.92	367.8	367.8	0.0	975.5
65.00		0.00	1.21 22.449	37.93 274.12	0.650	0.00	5.00	14.845	9.65	366.1	366.1	0.0	948.5
70.00		0.00	1.24 22.929	38.75 269.15	0.650	0.00	5.00	14.428	9.38	363.4	363.4	0.0	921.4
75.00		0.00	1.26 23.386	39.52 263.85	0.650	0.00	5.00	14.011	9.11	359.9	359.9	0.0	894.4
76.00	Appertunance(s)	0.00	1.26 23.474	39.67 262.75	0.650	0.00	1.00	2.752	1.79	71.0	71.0	0.0	175.6
80.00		0.00	1.28 23.821	40.25 258.25	0.650	0.00	4.00	10.842	7.05	283.7	283.7	0.0	691.8
85.00		0.00	1.31 24.237	40.96 252.39	0.650	0.00	5.00	13.178	8.57	350.9	350.9	0.0	840.4
87.00	Appertunance(s)	0.00	1.31 24.399	41.23 249.97	0.650	0.00	2.00	5.154	3.35	138.1	138.1	0.0	328.6
90.00		0.00	1.33 24.636	41.63 246.28	0.650	0.00	3.00	7.607	4.94	205.9	205.9	0.0	484.8
93.50	Bot - Section 3	0.00	1.34 24.906	42.09 241.87	0.650	0.00	3.50	8.685	5.65	237.6	237.6	0.0	553.3
95.00		0.00	1.35 25.020	42.28 239.95	0.650	0.00	1.50	3.706	2.41	101.9	101.9	0.0	322.6
97.25	Top - Section 2	0.00	1.36 25.188	42.56 237.03	0.650	0.00	2.25	5.489	3.57	151.9	151.9	0.0	477.6
100.0	Appertunance(s)	0.00	1.37 25.389	42.90 236.53	0.650	0.00	2.75	6.595	4.29	183.9	183.9	0.0	159.2
105.0		0.00	1.39 25.745	43.51 229.82	0.650	0.00	5.00	11.667	7.58	330.0	330.0	0.0	281.6
110.0		0.00	1.41 26.090	44.09 222.94	0.650	0.00	5.00	11.250	7.31	322.4	322.4	0.0	271.5
115.0		0.00	1.42 26.423	44.65 215.89	0.650	0.00	5.00	10.834	7.04	314.5	314.5	0.0	261.4
120.0	Appertunance(s)	0.00	1.44 26.747	45.20 208.69	0.650	0.00	5.00	10.417	6.77	306.1	306.1	0.0	251.2
125.0		0.00	1.46 27.060	45.73 201.34	0.650	0.00	5.00	10.000	6.50	297.3	297.3	0.0	241.1
130.0		0.00	1.48 27.365	46.24 193.86	0.650	0.00	5.00	9.584	6.23	288.1	288.1	0.0	231.0
131.0	Appertunance(s)	0.00	1.48 27.425	46.34 192.34	0.650	0.00	1.00	1.867	1.21	56.2	56.2	0.0	45.0
135.0		0.00	1.49 27.662	46.74 186.24	0.650	0.00	4.00	7.300	4.75	221.8	221.8	0.0	175.9
138.0	Appertunance(s)	0.00	1.50 27.836	47.04 181.61	0.650	0.00	3.00	5.300	3.45	162.1	162.1	0.0	127.7
140.0		0.00	1.51 27.951	47.23 178.50	0.650	0.00	2.00	3.450	2.24	105.9	105.9	0.0	83.1
Totals:							140.00				9,620.4	0.0	22,952.4

Pole : 310968
 Location : WSPT-Westport Rebuild CT, CT
 Height : 140.0 (ft)
 Shape : 18 Sides
 Base Dia : 47.13 (in)
 Top Dia : 20.50 (in)
 Taper : 0.200036 (in/ft)

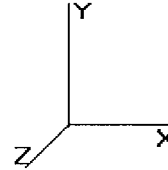
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Base Elev : 0.000 (ft)



Load Case: No Ice	85.00 mph Wind with No Ice	23 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)
76.00	Andrew DB844H80E-	6	23.474	39.672	0.88	19.69	0.000	0.000	781.31	0.00	0.00	60.00
76.00	Andrew 932DG65T2E-	3	23.474	39.672	0.76	7.96	0.000	0.000	315.67	0.00	0.00	28.50
76.00	Powerwave P65-16-	3	23.474	39.672	0.75	18.90	0.000	0.000	749.79	0.00	0.00	99.00
76.00	Flat Low Profile Pla	1	23.474	39.672	1.00	26.10	0.000	0.000	1,035.43	0.00	0.00	1,500.00
87.00	RFS ATMAA1412D-	3	24.399	41.234	0.50	1.75	0.000	0.000	72.37	0.00	0.00	39.00
87.00	Andrew	3	24.399	41.234	0.50	1.14	0.000	0.000	47.01	0.00	0.00	33.00
87.00	RFS APX16DWW-	3	24.399	41.234	0.67	13.47	0.000	0.000	555.29	0.00	0.00	118.80
87.00	Flat Low Profile Pla	1	24.399	41.234	1.00	26.10	0.000	0.000	1,076.20	0.00	0.00	1,500.00
100.0	14" x 9" TTA	12	25.389	42.907	0.50	7.38	0.000	0.000	316.66	0.00	0.00	120.00
100.0	Diplexer	6	25.389	42.907	0.50	2.10	0.000	0.000	90.11	0.00	0.00	30.00
100.0	Flat Low Profile Pla	1	25.389	42.907	1.00	26.10	0.000	0.000	1,119.88	0.00	0.00	1,500.00
100.0	56" x 6" Panel	6	25.389	42.907	0.75	15.53	0.000	0.000	666.14	0.00	0.00	120.00
120.0	Flat Low Profile Pla	1	26.747	45.202	1.00	26.10	0.000	0.000	1,179.77	0.00	0.00	1,500.00
120.0	48" x 8" Panel	12	26.747	45.202	0.91	40.73	0.000	0.000	1,841.14	0.00	0.00	168.00
131.0	Flat Low Profile Pla	1	27.425	46.349	1.00	26.10	0.000	0.000	1,209.70	0.00	0.00	1,500.00
131.0	KMW AM-X-WM-17-65-	3	27.425	46.349	0.72	6.83	0.000	0.000	316.36	0.00	0.00	90.00
131.0	KMW	3	27.425	46.349	0.50	1.69	0.000	0.000	78.56	0.00	0.00	47.70
138.0	Flat Platform w/ Han	1	27.836	47.043	1.00	42.40	0.000	0.000	1,994.63	0.00	0.00	2,000.00
138.0	6' Omni	3	27.836	47.043	1.00	5.28	0.000	0.000	248.37	0.00	0.00	75.00
138.0	8' Omni	2	27.836	47.043	1.00	4.80	0.000	0.000	225.81	0.00	0.00	80.00
138.0	6' Omni	2	27.836	47.043	1.00	3.52	0.000	0.000	165.59	0.00	0.00	50.00
138.0	8' FM Antenna	1	28.064	47.429	1.00	10.00	0.000	4.000	474.29	0.00	1,897.16	50.00
138.0	6' Dipole	1	27.836	47.043	1.00	4.00	0.000	0.000	188.17	0.00	0.00	30.00
									14,748.24			10,739.00

Pole : 310968
 Location : WSPT-Westport Rebuild CT, CT
 Height : 140.0 (ft)
 Shape : 18 Sides
 Base Dia : 47.13 (in)
 Top Dia : 20.50 (in)
 Taper : 0.200036 (in/ft)

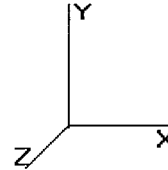
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Base Elev : 0.000 (ft)



Load Case: No Ice	85.00 mph Wind with No Ice	23 Iterations
Gust Response Factor : 1.69		
Dead Load Factor : 1.00		
Wind Load Factor : 1.00		

Linear Appurtenance Segment Forces

Seg Top Elev (ft)	Description	Exposed To Wind	Length (ft)	Weight (lb/ft)	CaAa (sf/ft)	qz (psf)	FX (lb)	Dead Load (lb)
5.00	(12) 1 5/8" Coax	Yes	5.00	9.84	0.40	18.496	62.52	49.20
10.00	(12) 1 5/8" Coax	Yes	5.00	9.84	0.40	18.496	62.52	49.20
15.00	(12) 1 5/8" Coax	Yes	5.00	9.84	0.40	18.496	62.52	49.20
20.00	(12) 1 5/8" Coax	Yes	5.00	9.84	0.40	18.496	62.52	49.20
25.00	(12) 1 5/8" Coax	Yes	5.00	9.84	0.40	18.496	62.52	49.20
30.00	(12) 1 5/8" Coax	Yes	5.00	9.84	0.40	18.496	62.52	49.20
35.00	(12) 1 5/8" Coax	Yes	5.00	9.84	0.40	18.810	63.58	49.20
40.00	(12) 1 5/8" Coax	Yes	5.00	9.84	0.40	19.541	66.05	49.20
45.00	(12) 1 5/8" Coax	Yes	5.00	9.84	0.40	20.210	68.31	49.20
46.25	(12) 1 5/8" Coax	Yes	1.25	9.84	0.40	20.369	17.21	12.30
50.00	(12) 1 5/8" Coax	Yes	3.75	9.84	0.40	20.827	52.80	36.90
51.00	(12) 1 5/8" Coax	Yes	1.00	9.84	0.40	20.946	14.16	9.84
55.00	(12) 1 5/8" Coax	Yes	4.00	9.84	0.40	21.402	57.87	39.36
60.00	(12) 1 5/8" Coax	Yes	5.00	9.84	0.40	21.941	74.16	49.20
65.00	(12) 1 5/8" Coax	Yes	5.00	9.84	0.40	22.449	75.88	49.20
70.00	(12) 1 5/8" Coax	Yes	5.00	9.84	0.40	22.929	77.50	49.20
75.00	(12) 1 5/8" Coax	Yes	5.00	9.84	0.40	23.386	79.04	49.20
76.00	(12) 1 5/8" Coax	Yes	1.00	9.84	0.40	23.474	15.87	9.84
80.00	(12) 1 5/8" Coax	Yes	4.00	9.84	0.40	23.821	64.41	39.36
85.00	(12) 1 5/8" Coax	Yes	5.00	9.84	0.40	24.237	81.92	49.20
87.00	(12) 1 5/8" Coax	Yes	2.00	9.84	0.40	24.399	32.99	19.68
Totals:							1,216.84	856.08

Pole : 310968
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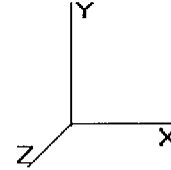
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Base Elev : 0.000 (ft)



Load Case: No Ice 85.00 mph Wind with No Ice 23 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	457.27	1,478.94	0.00	0.00
10.00	448.81	1,451.93	0.00	0.00
15.00	440.34	1,424.93	0.00	0.00
20.00	431.87	1,397.92	0.00	0.00
25.00	423.41	1,370.92	0.00	0.00
30.00	414.94	1,343.91	0.00	0.00
35.00	413.36	1,316.91	0.00	0.00
40.00	420.49	1,289.90	0.00	0.00
45.00	425.63	1,262.90	0.00	0.00
46.25	105.79	311.50	0.00	0.00
50.00	328.08	1,693.96	0.00	0.00
51.00	87.07	446.59	0.00	0.00
55.00	351.97	986.55	0.00	0.00
60.00	442.00	1,208.88	0.00	0.00
65.00	441.95	1,181.88	0.00	0.00
70.00	440.91	1,154.87	0.00	0.00
75.00	438.98	1,127.87	0.00	0.00
76.00	2,969.04	1,909.83	0.00	0.00
80.00	348.13	839.17	0.00	0.00
85.00	432.78	1,024.66	0.00	0.00
87.00	1,922.00	2,093.10	0.00	0.00
90.00	205.86	565.83	0.00	0.00
93.50	237.61	647.85	0.00	0.00
95.00	101.87	363.10	0.00	0.00
97.25	151.88	538.38	0.00	0.00
100.0	2,376.70	2,003.47	0.00	0.00
105.0	329.96	367.22	0.00	0.00
110.0	322.44	357.09	0.00	0.00
115.0	314.46	346.96	0.00	0.00
120.0	3,326.97	2,004.84	0.00	0.00
125.0	297.27	288.91	0.00	0.00
130.0	288.09	278.78	0.00	0.00
131.0	1,660.86	1,692.24	0.00	0.00
135.0	221.83	198.99	0.00	0.00
138.0	3,458.93	2,429.99	0.00	1,897.16
140.0	105.93	83.08	0.00	0.00
Totals:	25,585.49	38,483.83	0.00	1,897.16

Pole : 310968
 Location : WSPT-Westport Rebuild CT, CT
 Height : 140.0 (ft)
 Shape : 18 Sides
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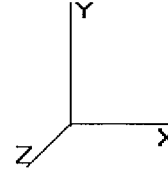
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Base Elev : 0.000 (ft)



Load Case: No Ice	85.00 mph Wind with No Ice	23 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	-25.641	-38.446	0.000	0.000	0.000	-2,410.863	0.000	0.000	0.000	0.000
5.00	-25.288	-36.895	0.000	0.000	0.000	-2,282.658	-0.088	0.000	0.088	-0.164
10.00	-24.936	-35.373	0.000	0.000	0.000	-2,156.218	-0.349	0.000	0.349	-0.330
15.00	-24.585	-33.879	0.000	0.000	0.000	-2,031.540	-0.785	0.000	0.785	-0.497
20.00	-24.234	-32.415	0.000	0.000	0.000	-1,908.618	-1.396	0.000	1.396	-0.665
25.00	-23.885	-30.979	0.000	0.000	0.000	-1,787.449	-2.183	0.000	2.183	-0.835
30.00	-23.536	-29.572	0.000	0.000	0.000	-1,668.027	-3.149	0.000	3.149	-1.005
35.00	-23.182	-28.195	0.000	0.000	0.000	-1,550.348	-4.292	0.000	4.292	-1.175
40.00	-22.813	-26.847	0.000	0.000	0.000	-1,434.441	-5.614	0.000	5.614	-1.345
45.00	-22.403	-25.554	0.000	0.000	0.000	-1,320.380	-7.114	0.000	7.114	-1.514
46.25	-22.326	-25.212	0.000	0.000	0.000	-1,292.378	-7.517	0.000	7.517	-1.558
50.00	-21.983	-23.497	0.000	0.000	0.000	-1,208.655	-8.792	0.000	8.792	-1.685
51.00	-21.917	-23.020	0.000	0.000	0.000	-1,186.672	-9.149	0.000	9.149	-1.720
55.00	-21.590	-21.992	0.000	0.000	0.000	-1,099.004	-10.647	0.000	10.647	-1.854
60.00	-21.161	-20.743	0.000	0.000	0.000	-991.057	-12.671	0.000	12.671	-2.005
65.00	-20.726	-19.526	0.000	0.000	0.000	-885.252	-14.850	0.000	14.850	-2.152
70.00	-20.285	-18.340	0.000	0.000	0.000	-781.622	-17.181	0.000	17.181	-2.295
75.00	-19.824	-17.203	0.000	0.000	0.000	-680.196	-19.657	0.000	19.657	-2.431
76.00	-16.794	-15.402	0.000	0.000	0.000	-660.372	-20.170	0.000	20.170	-2.458
80.00	-16.439	-14.546	0.000	0.000	0.000	-593.195	-22.274	0.000	22.274	-2.563
85.00	-15.980	-13.519	0.000	0.000	0.000	-511.001	-25.024	0.000	25.024	-2.687
87.00	-13.973	-11.504	0.000	0.000	0.000	-479.041	-26.160	0.000	26.160	-2.735
90.00	-13.754	-10.931	0.000	0.000	0.000	-437.123	-27.901	0.000	27.901	-2.806
93.50	-13.495	-10.283	0.000	0.000	0.000	-388.983	-29.988	0.000	29.988	-2.885
95.00	-13.382	-9.916	0.000	0.000	0.000	-368.741	-30.899	0.000	30.899	-2.918
97.25	-13.211	-9.374	0.000	0.000	0.000	-338.632	-32.286	0.000	32.286	-2.966
100.0	-10.752	-7.470	0.000	0.000	0.000	-302.302	-34.011	0.000	34.011	-3.022
105.0	-10.430	-7.082	0.000	0.000	0.000	-248.542	-37.301	0.000	37.301	-3.252
110.0	-10.109	-6.710	0.000	0.000	0.000	-196.395	-40.819	0.000	40.819	-3.458
115.0	-9.792	-6.356	0.000	0.000	0.000	-145.848	-44.538	0.000	44.538	-3.636
120.0	-6.352	-4.557	0.000	0.000	0.000	-96.889	-48.425	0.000	48.425	-3.778
125.0	-6.043	-4.279	0.000	0.000	0.000	-65.131	-52.439	0.000	52.439	-3.884
130.0	-5.739	-4.017	0.000	0.000	0.000	-34.918	-56.549	0.000	56.549	-3.959
131.0	-3.966	-2.442	0.000	0.000	0.000	-29.179	-57.379	0.000	57.379	-3.970
135.0	-3.732	-2.258	0.000	0.000	0.000	-13.315	-60.717	0.000	60.717	-4.000
138.0	-0.111	-0.075	0.000	0.000	0.000	-0.223	-63.232	0.000	63.232	-4.009
140.0	-0.106	0.000	0.000	0.000	0.000	0.000	-64.910	0.000	64.910	-4.009

Pole : 310968
 Location : WSPT-Westport Rebuild CT, CT
 Height : 140.0 (ft)
 Shape : 18 Sides
 Base Dia : 47.13 (in)
 Top Dia : 20.50 (in)
 Taper : 0.200036 (in/ft)

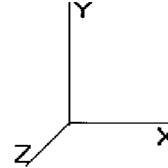
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Base Elev : 0.000 (ft)



Load Case: No Ice	85.00 mph Wind with No Ice	23 Iterations
Gust Response Factor : 1.69		
Dead Load Factor : 1.00		
Wind Load Factor : 1.00		

Calculated Stresses

Seg Elev (ft)	Applied Stresses							Combined (ksi)	Allowable Stress (Fb) (ksi)	Stress Ratio
	Axial (Y) (ksi)	Shear (X) (ksi)	Shear (Z) (ksi)	Torsion (ksi)	Bending (X) (ksi)	Bending (Z) (ksi)				
0.00	0.52	0.70	0.00	0.00	0.00	34.05	34.59	52.0	0.0	0.666
5.00	0.51	0.70	0.00	0.00	0.00	33.68	34.21	52.0	0.0	0.658
10.00	0.50	0.71	0.00	0.00	0.00	33.26	33.79	52.0	0.0	0.650
15.00	0.49	0.72	0.00	0.00	0.00	32.80	33.31	52.0	0.0	0.641
20.00	0.48	0.72	0.00	0.00	0.00	32.29	32.79	52.0	0.0	0.631
25.00	0.47	0.73	0.00	0.00	0.00	31.72	32.21	52.0	0.0	0.620
30.00	0.46	0.74	0.00	0.00	0.00	31.08	31.57	52.0	0.0	0.607
35.00	0.45	0.74	0.00	0.00	0.00	30.38	30.85	52.0	0.0	0.594
40.00	0.44	0.75	0.00	0.00	0.00	29.59	30.06	52.0	0.0	0.578
45.00	0.43	0.76	0.00	0.00	0.00	28.71	29.17	52.0	0.0	0.561
46.25	0.43	0.76	0.00	0.00	0.00	28.48	28.94	52.0	0.0	0.557
50.00	0.40	0.76	0.00	0.00	0.00	27.75	28.18	52.0	0.0	0.542
51.00	0.39	0.74	0.00	0.00	0.00	26.08	26.50	52.0	0.0	0.510
55.00	0.38	0.75	0.00	0.00	0.00	25.23	25.64	52.0	0.0	0.493
60.00	0.37	0.75	0.00	0.00	0.00	24.06	24.46	52.0	0.0	0.471
65.00	0.36	0.76	0.00	0.00	0.00	22.76	23.15	52.0	0.0	0.445
70.00	0.34	0.77	0.00	0.00	0.00	21.32	21.70	52.0	0.0	0.417
75.00	0.33	0.77	0.00	0.00	0.00	19.71	20.09	52.0	0.0	0.387
76.00	0.30	0.66	0.00	0.00	0.00	19.38	19.71	52.0	0.0	0.379
80.00	0.29	0.66	0.00	0.00	0.00	18.31	18.63	52.0	0.0	0.358
85.00	0.28	0.66	0.00	0.00	0.00	16.82	17.14	52.0	0.0	0.330
87.00	0.24	0.59	0.00	0.00	0.00	16.20	16.47	52.0	0.0	0.317
90.00	0.23	0.59	0.00	0.00	0.00	15.39	15.65	52.0	0.0	0.301
93.50	0.22	0.59	0.00	0.00	0.00	14.37	14.63	52.0	0.0	0.281
95.00	0.22	0.59	0.00	0.00	0.00	13.91	14.17	52.0	0.0	0.273
97.25	0.55	1.55	0.00	0.00	0.00	33.15	33.80	51.3	0.0	0.658
100.00	0.44	1.29	0.00	0.00	0.00	30.76	31.28	51.8	0.0	0.604
105.00	0.44	1.29	0.00	0.00	0.00	27.18	27.71	52.0	0.0	0.533
110.00	0.43	1.30	0.00	0.00	0.00	23.15	23.68	52.0	0.0	0.456
115.00	0.42	1.31	0.00	0.00	0.00	18.58	19.14	52.0	0.0	0.368
120.00	0.31	0.88	0.00	0.00	0.00	13.38	13.78	52.0	0.0	0.265
125.00	0.31	0.88	0.00	0.00	0.00	9.79	10.21	52.0	0.0	0.196
130.00	0.30	0.87	0.00	0.00	0.00	5.73	6.22	52.0	0.0	0.120
131.00	0.19	0.61	0.00	0.00	0.00	4.88	5.17	52.0	0.0	0.099
135.00	0.18	0.59	0.00	0.00	0.00	2.40	2.77	52.0	0.0	0.053
138.00	0.01	0.02	0.00	0.00	0.00	0.04	0.06	52.0	0.0	0.001
140.00	0.00	0.02	0.00	0.00	0.00	0.00	0.03	52.0	0.0	0.001

Pole : 310968
 Location : WSPT-Westport Rebuild CT, CT
 Height : 140.0 (ft)
 Shape : 18 Sides
 Base Dia : 47.13 (in)
 Top Dia : 20.50 (in)
 Taper : 0.200036 (in/ft)

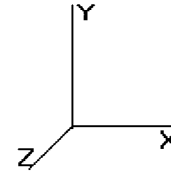
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Base Elev : 0.000 (ft)



Load Case: Ice	73.61 mph Wind with Ice	23 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 13.871	23.44 289.10	0.650	0.50	0.00	0.000	0.00	0.00	0.0	0.0	0.0
5.00		0.00	1.00 13.871	23.44 282.96	0.650	0.50	5.00	19.846	12.90	302.4	143.9	1,389.4	
10.00		0.00	1.00 13.871	23.44 276.83	0.650	0.50	5.00	19.429	12.63	296.0	140.8	1,359.3	
15.00		0.00	1.00 13.871	23.44 270.69	0.650	0.50	5.00	19.012	12.36	289.7	137.7	1,329.2	
20.00		0.00	1.00 13.871	23.44 264.56	0.650	0.50	5.00	18.596	12.09	283.3	134.6	1,299.1	
25.00		0.00	1.00 13.871	23.44 258.42	0.650	0.50	5.00	18.179	11.82	277.0	131.5	1,269.0	
30.00		0.00	1.00 13.871	23.44 252.29	0.650	0.50	5.00	17.762	11.55	270.6	128.5	1,238.9	
35.00		0.00	1.01 14.106	23.84 248.23	0.650	0.50	5.00	17.345	11.27	268.8	125.4	1,208.9	
40.00		0.00	1.05 14.655	24.76 246.70	0.650	0.50	5.00	16.929	11.00	272.5	122.3	1,178.8	
45.00		0.00	1.09 15.156	25.61 244.48	0.650	0.50	5.00	16.512	10.73	274.9	119.2	1,148.7	
46.25	Bot - Section 2	0.00	1.10 15.276	25.81 243.83	0.650	0.50	1.25	4.063	2.64	68.2	29.6	282.8	
50.00		0.00	1.12 15.620	26.39 241.67	0.650	0.50	3.75	12.345	8.02	211.8	89.4	1,608.3	
51.00	Top - Section 1	0.00	1.13 15.708	26.54 241.05	0.650	0.50	1.00	3.252	2.11	56.1	23.7	423.6	
55.00		0.00	1.15 16.051	27.12 244.99	0.650	0.50	4.00	12.843	8.35	226.4	92.9	892.7	
60.00		0.00	1.18 16.455	27.80 241.37	0.650	0.50	5.00	15.678	10.19	283.4	113.0	1,088.5	
65.00		0.00	1.21 16.836	28.45 237.38	0.650	0.50	5.00	15.262	9.92	282.2	109.9	1,058.4	
70.00		0.00	1.24 17.196	29.06 233.08	0.650	0.50	5.00	14.845	9.65	280.4	106.9	1,028.3	
75.00		0.00	1.26 17.538	29.63 228.49	0.650	0.50	5.00	14.428	9.38	278.0	103.8	998.2	
76.00	Appertunance(s)	0.00	1.26 17.605	29.75 227.54	0.650	0.50	1.00	2.836	1.84	54.8	20.6	196.3	
80.00		0.00	1.28 17.865	30.19 223.64	0.650	0.50	4.00	11.176	7.26	219.3	80.5	772.3	
85.00		0.00	1.31 18.177	30.71 218.57	0.650	0.50	5.00	13.595	8.84	271.4	97.6	938.0	
87.00	Appertunance(s)	0.00	1.31 18.298	30.92 216.48	0.650	0.50	2.00	5.321	3.46	107.0	38.5	367.2	
90.00		0.00	1.33 18.476	31.22 213.28	0.650	0.50	3.00	7.857	5.11	159.5	56.7	541.5	
93.50	Bot - Section 3	0.00	1.34 18.678	31.56 209.46	0.650	0.50	3.50	8.977	5.83	184.2	64.6	618.0	
95.00		0.00	1.35 18.764	31.71 207.80	0.650	0.50	1.50	3.831	2.49	79.0	27.8	350.4	
97.25	Top - Section 2	0.00	1.36 18.889	31.92 205.27	0.650	0.50	2.25	5.677	3.69	117.8	41.0	518.7	
100.0	Appertunance(s)	0.00	1.37 19.041	32.17 204.83	0.650	0.50	2.75	6.824	4.44	142.7	49.2	208.4	
105.0		0.00	1.39 19.308	32.63 199.03	0.650	0.50	5.00	12.084	7.85	256.3	86.4	368.0	
110.0		0.00	1.41 19.566	33.06 193.07	0.650	0.50	5.00	11.667	7.58	250.8	83.3	354.8	
115.0		0.00	1.42 19.816	33.49 186.96	0.650	0.50	5.00	11.250	7.31	244.9	80.2	341.6	
120.0	Appertunance(s)	0.00	1.44 20.059	33.89 180.73	0.650	0.50	5.00	10.834	7.04	238.7	77.1	328.4	
125.0		0.00	1.46 20.294	34.29 174.36	0.650	0.50	5.00	10.417	6.77	232.2	74.1	315.2	
130.0		0.00	1.48 20.523	34.68 167.88	0.650	0.50	5.00	10.000	6.50	225.4	71.0	302.0	
131.0	Appertunance(s)	0.00	1.48 20.568	34.75 166.57	0.650	0.50	1.00	1.950	1.27	44.1	14.1	59.1	
135.0		0.00	1.49 20.745	35.05 161.28	0.650	0.50	4.00	7.633	4.96	174.0	54.3	230.2	
138.0	Appertunance(s)	0.00	1.50 20.876	35.28 157.27	0.650	0.50	3.00	5.550	3.61	127.3	39.6	167.3	
140.0		0.00	1.51 20.962	35.42 154.58	0.650	0.50	2.00	3.617	2.35	83.3	25.9	109.0	
Totals:							140.00				7,434.5	2,935.8	25,888.2

Pole : 310968
 Location : WSPT-Westport Rebuild CT, CT
 Height : 140.0 (ft)
 Shape : 18 Sides
 Base Dia : 47.13 (in)
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 Taper : 0.200036 (in/ft)

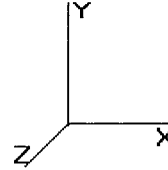
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Base Elev : 0.000 (ft)



Load Case: Ice	73.61 mph Wind with Ice	23 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)
76.00	Andrew DB844H80E-	6	17.605	29.752	0.88	22.65	0.000	0.000	673.91	0.00	0.00	212.28
76.00	Andrew 932DC65T2E-	3	17.605	29.752	0.76	9.21	0.000	0.000	274.05	0.00	0.00	86.16
76.00	Powerwave P65-16-	3	17.605	29.752	0.75	20.77	0.000	0.000	617.87	0.00	0.00	232.59
76.00	Flat Low Profile Pla	1	17.605	29.752	1.00	31.60	0.000	0.000	940.16	0.00	0.00	1,700.00
87.00	RFS ATMAA1412D-	3	18.298	30.923	0.50	2.09	0.000	0.000	64.48	0.00	0.00	61.80
87.00	Andrew	3	18.298	30.923	0.50	1.42	0.000	0.000	44.07	0.00	0.00	48.90
87.00	RFS APX16DWW-	3	18.298	30.923	0.67	14.77	0.000	0.000	456.85	0.00	0.00	208.14
87.00	Flat Low Profile Pla	1	18.298	30.923	1.00	31.60	0.000	0.000	977.18	0.00	0.00	1,700.00
100.0	14" x 9" TTA	12	19.041	32.179	0.50	8.76	0.000	0.000	281.88	0.00	0.00	216.00
100.0	Diplexer	6	19.041	32.179	0.50	2.64	0.000	0.000	84.95	0.00	0.00	58.80
100.0	Flat Low Profile Pla	1	19.041	32.179	1.00	31.60	0.000	0.000	1,016.84	0.00	0.00	1,700.00
100.0	56" x 6" Panel	6	19.041	32.179	0.75	17.91	0.000	0.000	576.32	0.00	0.00	228.18
120.0	Flat Low Profile Pla	1	20.059	33.899	1.00	31.60	0.000	0.000	1,071.22	0.00	0.00	1,700.00
120.0	48" x 8" Panel	12	20.059	33.899	0.91	46.85	0.000	0.000	1,588.07	0.00	0.00	483.59
131.0	Flat Low Profile Pla	1	20.568	34.759	1.00	31.60	0.000	0.000	1,098.40	0.00	0.00	1,700.00
131.0	KMW AM-X-WM-17-65-	3	20.568	34.759	0.72	7.93	0.000	0.000	275.54	0.00	0.00	141.00
131.0	KMW	3	20.568	34.759	0.50	2.04	0.000	0.000	70.91	0.00	0.00	70.05
138.0	Flat Platform w/ Han	1	20.876	35.280	1.00	48.40	0.000	0.000	1,707.56	0.00	0.00	2,450.00
138.0	6' Omni	3	20.876	35.280	1.00	6.39	0.000	0.000	225.44	0.00	0.00	114.72
138.0	8' Omni	2	20.876	35.280	1.00	6.46	0.000	0.000	227.91	0.00	0.00	124.00
138.0	6' Omni	2	20.876	35.280	1.00	4.26	0.000	0.000	150.29	0.00	0.00	76.48
138.0	8' FM Antenna	1	21.047	35.569	1.00	15.00	0.000	4.000	533.54	0.00	2,134.17	75.00
138.0	6' Dipole	1	20.876	35.280	1.00	5.50	0.000	0.000	194.04	0.00	0.00	50.00
									13,151.48			13,437.69

Pole : 310968
 Location : WSPT-Westport Rebuild CT, CT
 Height : 140.0 (ft)
 Shape : 18 Sides
 Base Dia : 47.13 (in)
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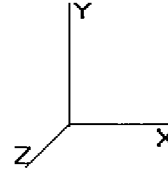
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Base Elev : 0.000 (ft)



Load Case: Ice 73.61 mph Wind with Ice 23 Iterations

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

Linear Appurtenance Segment Forces

Seg Top Elev (ft)	Description	Exposed To Wind	Length (ft)	Weight (lb/ft)	CaAa (sf/ft)	qz (psf)	FX (lb)	Dead Load (lb)
5.00	(12) 1 5/8" Coax	Yes	5.00	20.00	0.50	13.871	58.61	100.00
10.00	(12) 1 5/8" Coax	Yes	5.00	20.00	0.50	13.871	58.61	100.00
15.00	(12) 1 5/8" Coax	Yes	5.00	20.00	0.50	13.871	58.61	100.00
20.00	(12) 1 5/8" Coax	Yes	5.00	20.00	0.50	13.871	58.61	100.00
25.00	(12) 1 5/8" Coax	Yes	5.00	20.00	0.50	13.871	58.61	100.00
30.00	(12) 1 5/8" Coax	Yes	5.00	20.00	0.50	13.871	58.61	100.00
35.00	(12) 1 5/8" Coax	Yes	5.00	20.00	0.50	14.106	59.60	100.00
40.00	(12) 1 5/8" Coax	Yes	5.00	20.00	0.50	14.655	61.92	100.00
45.00	(12) 1 5/8" Coax	Yes	5.00	20.00	0.50	15.156	64.04	100.00
46.25	(12) 1 5/8" Coax	Yes	1.25	20.00	0.50	15.276	16.13	25.00
50.00	(12) 1 5/8" Coax	Yes	3.75	20.00	0.50	15.620	49.49	75.00
51.00	(12) 1 5/8" Coax	Yes	1.00	20.00	0.50	15.708	13.27	20.00
55.00	(12) 1 5/8" Coax	Yes	4.00	20.00	0.50	16.051	54.25	80.00
60.00	(12) 1 5/8" Coax	Yes	5.00	20.00	0.50	16.455	69.52	100.00
65.00	(12) 1 5/8" Coax	Yes	5.00	20.00	0.50	16.836	71.13	100.00
70.00	(12) 1 5/8" Coax	Yes	5.00	20.00	0.50	17.196	72.65	100.00
75.00	(12) 1 5/8" Coax	Yes	5.00	20.00	0.50	17.538	74.10	100.00
76.00	(12) 1 5/8" Coax	Yes	1.00	20.00	0.50	17.605	14.88	20.00
80.00	(12) 1 5/8" Coax	Yes	4.00	20.00	0.50	17.865	60.38	80.00
85.00	(12) 1 5/8" Coax	Yes	5.00	20.00	0.50	18.177	76.80	100.00
87.00	(12) 1 5/8" Coax	Yes	2.00	20.00	0.50	18.298	30.92	40.00
Totals:							1,140.72	1,740.00

Pole : 310968
 Location : WSPT-Westport Rebuild CT, CT
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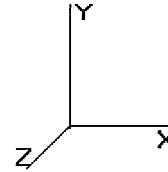
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Base Elev : 0.000 (ft)



Load Case: Ice	73.61 mph Wind with Ice	23 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	361.01	1,673.62	0.00	0.00
10.00	354.66	1,643.53	0.00	0.00
15.00	348.30	1,613.44	0.00	0.00
20.00	341.95	1,583.35	0.00	0.00
25.00	335.60	1,553.26	0.00	0.00
30.00	329.25	1,523.17	0.00	0.00
35.00	328.38	1,493.08	0.00	0.00
40.00	334.44	1,462.98	0.00	0.00
45.00	338.95	1,432.89	0.00	0.00
46.25	84.31	353.81	0.00	0.00
50.00	261.31	1,821.45	0.00	0.00
51.00	69.39	480.47	0.00	0.00
55.00	280.69	1,120.08	0.00	0.00
60.00	352.92	1,372.71	0.00	0.00
65.00	353.37	1,342.61	0.00	0.00
70.00	353.06	1,312.52	0.00	0.00
75.00	352.06	1,282.43	0.00	0.00
76.00	2,575.70	2,484.15	0.00	0.00
80.00	279.70	960.35	0.00	0.00
85.00	348.24	1,173.05	0.00	0.00
87.00	1,680.44	2,480.00	0.00	0.00
90.00	159.46	622.53	0.00	0.00
93.50	184.18	712.49	0.00	0.00
95.00	78.97	390.87	0.00	0.00
97.25	117.80	579.41	0.00	0.00
100.0	2,102.72	2,485.67	0.00	0.00
105.0	256.30	453.62	0.00	0.00
110.0	250.77	440.41	0.00	0.00
115.0	244.90	427.19	0.00	0.00
120.0	2,898.00	2,597.57	0.00	0.00
125.0	232.22	362.97	0.00	0.00
130.0	225.45	349.75	0.00	0.00
131.0	1,488.91	1,979.66	0.00	0.00
135.0	173.96	253.30	0.00	0.00
138.0	3,166.07	3,074.81	0.00	2,134.17
140.0	83.28	109.00	0.00	0.00
Totals:	21,726.74	45,002.22	0.00	2,134.17

Pole : 310968
 Location : WSPT-Westport Rebuild CT, CT
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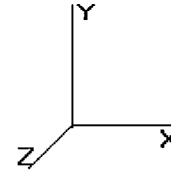
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Base Elev : 0.000 (ft)



Load Case: Ice	73.61 mph Wind with Ice	23 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	-21.784	-44.974	0.000	0.000	0.000	-2,093.588	0.000	0.000	0.000	0.000
5.00	-21.529	-43.247	0.000	0.000	0.000	-1,984.672	-0.077	0.000	0.077	-0.143
10.00	-21.273	-41.552	0.000	0.000	0.000	-1,877.031	-0.303	0.000	0.303	-0.287
15.00	-21.017	-39.887	0.000	0.000	0.000	-1,770.667	-0.682	0.000	0.682	-0.432
20.00	-20.759	-38.253	0.000	0.000	0.000	-1,665.587	-1.214	0.000	1.214	-0.579
25.00	-20.501	-36.651	0.000	0.000	0.000	-1,561.794	-1.900	0.000	1.900	-0.727
30.00	-20.241	-35.080	0.000	0.000	0.000	-1,459.293	-2.741	0.000	2.741	-0.876
35.00	-19.975	-33.541	0.000	0.000	0.000	-1,358.089	-3.738	0.000	3.738	-1.025
40.00	-19.696	-32.034	0.000	0.000	0.000	-1,258.214	-4.891	0.000	4.891	-1.174
45.00	-19.376	-30.577	0.000	0.000	0.000	-1,159.734	-6.201	0.000	6.201	-1.323
46.25	-19.323	-30.200	0.000	0.000	0.000	-1,135.515	-6.552	0.000	6.552	-1.361
50.00	-19.052	-28.362	0.000	0.000	0.000	-1,063.055	-7.666	0.000	7.666	-1.473
51.00	-19.006	-27.859	0.000	0.000	0.000	-1,044.004	-7.978	0.000	7.978	-1.503
55.00	-18.754	-26.706	0.000	0.000	0.000	-967.981	-9.288	0.000	9.288	-1.621
60.00	-18.419	-25.302	0.000	0.000	0.000	-874.213	-11.058	0.000	11.058	-1.754
65.00	-18.076	-23.931	0.000	0.000	0.000	-782.121	-12.966	0.000	12.966	-1.884
70.00	-17.728	-22.593	0.000	0.000	0.000	-691.741	-15.007	0.000	15.007	-2.010
75.00	-17.356	-21.302	0.000	0.000	0.000	-603.104	-17.177	0.000	17.177	-2.131
76.00	-14.708	-18.901	0.000	0.000	0.000	-585.749	-17.626	0.000	17.626	-2.155
80.00	-14.424	-17.927	0.000	0.000	0.000	-526.916	-19.472	0.000	19.472	-2.248
85.00	-14.051	-16.750	0.000	0.000	0.000	-454.797	-21.885	0.000	21.885	-2.358
87.00	-12.282	-14.331	0.000	0.000	0.000	-426.695	-22.882	0.000	22.882	-2.401
90.00	-12.113	-13.701	0.000	0.000	0.000	-389.848	-24.411	0.000	24.411	-2.464
93.50	-11.909	-12.987	0.000	0.000	0.000	-347.455	-26.244	0.000	26.244	-2.535
95.00	-11.821	-12.593	0.000	0.000	0.000	-329.592	-27.045	0.000	27.045	-2.565
97.25	-11.687	-12.010	0.000	0.000	0.000	-302.996	-28.264	0.000	28.264	-2.608
100.0	-9.494	-9.601	0.000	0.000	0.000	-270.858	-29.781	0.000	29.781	-2.658
105.0	-9.247	-9.129	0.000	0.000	0.000	-223.389	-32.676	0.000	32.676	-2.864
110.0	-9.001	-8.675	0.000	0.000	0.000	-177.153	-35.777	0.000	35.777	-3.050
115.0	-8.754	-8.240	0.000	0.000	0.000	-132.151	-39.060	0.000	39.060	-3.210
120.0	-5.723	-5.801	0.000	0.000	0.000	-88.384	-42.493	0.000	42.493	-3.339
125.0	-5.478	-5.444	0.000	0.000	0.000	-59.770	-46.044	0.000	46.044	-3.436
130.0	-5.235	-5.106	0.000	0.000	0.000	-32.382	-49.681	0.000	49.681	-3.505
131.0	-3.628	-3.220	0.000	0.000	0.000	-27.148	-50.416	0.000	50.416	-3.515
135.0	-3.440	-2.977	0.000	0.000	0.000	-12.634	-53.373	0.000	53.373	-3.543
138.0	-0.090	-0.104	0.000	0.000	0.000	-0.180	-55.602	0.000	55.602	-3.552
140.0	-0.083	0.000	0.000	0.000	0.000	0.000	-57.089	0.000	57.089	-3.552

Pole : 310968
 Location : WSPT-Westport Rebuild CT, CT
 Height : 140.0 (ft)
 Shape : 18 Sides
 Base Dia : 47.13 (in)
 Top Dia : 20.50 (in)
 Taper : 0.200036 (in/ft)

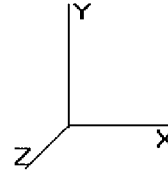
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Base Elev : 0.000 (ft)



Load Case: Ice	73.61 mph Wind with Ice	23 Iterations
Gust Response Factor : 1.69		
Dead Load Factor : 1.00		
Wind Load Factor : 1.00		

Calculated Stresses

Seg Elev (ft)	Applied Stresses							Combined (ksi)	Allowable Stress (Fb) (ksi)	Stress Ratio
	Axial (Y) (ksi)	Shear (X) (ksi)	Shear (Z) (ksi)	Torsion (ksi)	Bending (X) (ksi)	Bending (Z) (ksi)				
0.00	0.61	0.59	0.00	0.00	0.00	29.57	30.20	52.0	0.0	0.581
5.00	0.60	0.60	0.00	0.00	0.00	29.28	29.90	52.0	0.0	0.575
10.00	0.59	0.61	0.00	0.00	0.00	28.96	29.56	52.0	0.0	0.569
15.00	0.58	0.61	0.00	0.00	0.00	28.59	29.19	52.0	0.0	0.562
20.00	0.57	0.62	0.00	0.00	0.00	28.18	28.76	52.0	0.0	0.553
25.00	0.55	0.63	0.00	0.00	0.00	27.71	28.29	52.0	0.0	0.544
30.00	0.54	0.63	0.00	0.00	0.00	27.19	27.76	52.0	0.0	0.534
35.00	0.53	0.64	0.00	0.00	0.00	26.61	27.17	52.0	0.0	0.523
40.00	0.52	0.65	0.00	0.00	0.00	25.95	26.50	52.0	0.0	0.510
45.00	0.51	0.65	0.00	0.00	0.00	25.22	25.76	52.0	0.0	0.496
46.25	0.51	0.66	0.00	0.00	0.00	25.03	25.56	52.0	0.0	0.492
50.00	0.49	0.66	0.00	0.00	0.00	24.41	24.92	52.0	0.0	0.479
51.00	0.47	0.64	0.00	0.00	0.00	22.95	23.44	52.0	0.0	0.451
55.00	0.46	0.65	0.00	0.00	0.00	22.22	22.71	52.0	0.0	0.437
60.00	0.45	0.66	0.00	0.00	0.00	21.22	21.70	52.0	0.0	0.417
65.00	0.44	0.66	0.00	0.00	0.00	20.11	20.57	52.0	0.0	0.396
70.00	0.42	0.67	0.00	0.00	0.00	18.86	19.32	52.0	0.0	0.372
75.00	0.41	0.68	0.00	0.00	0.00	17.48	17.93	52.0	0.0	0.345
76.00	0.37	0.58	0.00	0.00	0.00	17.19	17.58	52.0	0.0	0.338
80.00	0.36	0.58	0.00	0.00	0.00	16.26	16.65	52.0	0.0	0.320
85.00	0.34	0.58	0.00	0.00	0.00	14.97	15.35	52.0	0.0	0.295
87.00	0.30	0.52	0.00	0.00	0.00	14.43	14.75	52.0	0.0	0.284
90.00	0.29	0.52	0.00	0.00	0.00	13.72	14.04	52.0	0.0	0.270
93.50	0.28	0.52	0.00	0.00	0.00	12.84	13.15	52.0	0.0	0.253
95.00	0.28	0.52	0.00	0.00	0.00	12.43	12.74	52.0	0.0	0.245
97.25	0.70	1.37	0.00	0.00	0.00	29.66	30.45	51.3	0.0	0.593
100.00	0.57	1.14	0.00	0.00	0.00	27.56	28.20	51.8	0.0	0.545
105.00	0.56	1.15	0.00	0.00	0.00	24.43	25.07	52.0	0.0	0.482
110.00	0.55	1.16	0.00	0.00	0.00	20.88	21.53	52.0	0.0	0.414
115.00	0.55	1.17	0.00	0.00	0.00	16.84	17.50	52.0	0.0	0.337
120.00	0.40	0.80	0.00	0.00	0.00	12.21	12.69	52.0	0.0	0.244
125.00	0.39	0.80	0.00	0.00	0.00	8.98	9.48	52.0	0.0	0.182
130.00	0.38	0.79	0.00	0.00	0.00	5.31	5.86	52.0	0.0	0.113
131.00	0.24	0.56	0.00	0.00	0.00	4.54	4.88	52.0	0.0	0.094
135.00	0.23	0.55	0.00	0.00	0.00	2.27	2.68	52.0	0.0	0.052
138.00	0.01	0.01	0.00	0.00	0.00	0.03	0.05	52.0	0.0	0.001
140.00	0.00	0.01	0.00	0.00	0.00	0.00	0.02	52.0	0.0	0.000

Pole : 310968
 Location : WSPT-Westport Rebuild CT, CT
 Height : 140.0 (ft)
 Shape : 18 Sides
 Base Dia : 47.13 (in)
 Top Dia : 20.50 (in)
 Taper : 0.200036 (in/ft)

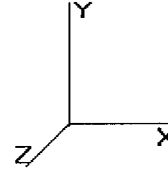
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Base Elev : 0.000 (ft)



Load Case: Twist/Sway	50.00 mph Wind with No Ice	22 Iterations
Gust Response Factor : 1.69		
Dead Load Factor : 1.00		
Wind Load Factor : 1.00		

Shaft Segment Forces

Seg Top							Ice			Wind		Dead	Tot Dead	
Elev (ft)	Description	Kz	qz (psf)	qzGh (psf)	C (mph-ft)	Cf	Thick (in)	Tributary (ft)	Aa (sf)	CfAa (sf)	Force X (lb)	Load Ice (lb)	Load (lb)	
0.00		0.00	1.00	6.400	10.81	196.37	0.650	0.00	0.00	0.000	0.00	0.0	0.0	
5.00		0.00	1.00	6.400	10.81	192.20	0.650	0.00	5.00	19.429	12.63	136.6	0.0	1,245.5
10.00		0.00	1.00	6.400	10.81	188.04	0.650	0.00	5.00	19.012	12.36	133.7	0.0	1,218.5
15.00		0.00	1.00	6.400	10.81	183.87	0.650	0.00	5.00	18.596	12.09	130.7	0.0	1,191.5
20.00		0.00	1.00	6.400	10.81	179.70	0.650	0.00	5.00	18.179	11.82	127.8	0.0	1,164.5
25.00		0.00	1.00	6.400	10.81	175.53	0.650	0.00	5.00	17.762	11.55	124.9	0.0	1,137.5
30.00		0.00	1.00	6.400	10.81	171.37	0.650	0.00	5.00	17.345	11.27	121.9	0.0	1,110.5
35.00		0.00	1.01	6.509	10.99	168.61	0.650	0.00	5.00	16.929	11.00	121.0	0.0	1,083.5
40.00		0.00	1.05	6.762	11.42	167.57	0.650	0.00	5.00	16.512	10.73	122.6	0.0	1,056.5
45.00		0.00	1.09	6.993	11.81	166.06	0.650	0.00	5.00	16.095	10.46	123.6	0.0	1,029.5
46.25	Bot - Section 2	0.00	1.10	7.048	11.91	165.62	0.650	0.00	1.25	3.959	2.57	30.6	0.0	253.1
50.00		0.00	1.12	7.207	12.17	164.16	0.650	0.00	3.75	12.032	7.82	95.3	0.0	1,518.9
51.00	Top - Section 1	0.00	1.13	7.248	12.24	163.74	0.650	0.00	1.00	3.169	2.06	25.2	0.0	399.9
55.00		0.00	1.15	7.406	12.51	166.41	0.650	0.00	4.00	12.509	8.13	101.8	0.0	799.8
60.00		0.00	1.18	7.592	12.83	163.95	0.650	0.00	5.00	15.262	9.92	127.3	0.0	975.5
65.00		0.00	1.21	7.768	13.12	161.24	0.650	0.00	5.00	14.845	9.65	126.7	0.0	948.5
70.00		0.00	1.24	7.934	13.40	158.32	0.650	0.00	5.00	14.428	9.38	125.7	0.0	921.4
75.00		0.00	1.26	8.092	13.67	155.20	0.650	0.00	5.00	14.011	9.11	124.5	0.0	894.4
76.00	Appertunance(s)	0.00	1.26	8.123	13.72	154.56	0.650	0.00	1.00	2.752	1.79	24.6	0.0	175.6
80.00		0.00	1.28	8.242	13.93	151.91	0.650	0.00	4.00	10.842	7.05	98.2	0.0	691.8
85.00		0.00	1.31	8.387	14.17	148.46	0.650	0.00	5.00	13.178	8.57	121.4	0.0	840.4
87.00	Appertunance(s)	0.00	1.31	8.442	14.26	147.04	0.650	0.00	2.00	5.154	3.35	47.8	0.0	328.6
90.00		0.00	1.33	8.525	14.40	144.87	0.650	0.00	3.00	7.607	4.94	71.2	0.0	484.8
93.50	Bot - Section 3	0.00	1.34	8.618	14.56	142.28	0.650	0.00	3.50	8.685	5.65	82.2	0.0	553.3
95.00		0.00	1.35	8.657	14.63	141.15	0.650	0.00	1.50	3.706	2.41	35.2	0.0	322.6
97.25	Top - Section 2	0.00	1.36	8.715	14.72	139.43	0.650	0.00	2.25	5.489	3.57	52.6	0.0	477.6
100.0	Appertunance(s)	0.00	1.37	8.785	14.84	139.13	0.650	0.00	2.75	6.595	4.29	63.6	0.0	159.2
105.0		0.00	1.39	8.908	15.05	135.19	0.650	0.00	5.00	11.667	7.58	114.2	0.0	281.6
110.0		0.00	1.41	9.028	15.25	131.14	0.650	0.00	5.00	11.250	7.31	111.6	0.0	271.5
115.0		0.00	1.42	9.143	15.45	126.99	0.650	0.00	5.00	10.834	7.04	108.8	0.0	261.4
120.0	Appertunance(s)	0.00	1.44	9.255	15.64	122.76	0.650	0.00	5.00	10.417	6.77	105.9	0.0	251.2
125.0		0.00	1.46	9.363	15.82	118.43	0.650	0.00	5.00	10.000	6.50	102.9	0.0	241.1
130.0		0.00	1.48	9.469	16.00	114.03	0.650	0.00	5.00	9.584	6.23	99.7	0.0	231.0
131.0	Appertunance(s)	0.00	1.48	9.490	16.03	113.14	0.650	0.00	1.00	1.867	1.21	19.5	0.0	45.0
135.0		0.00	1.49	9.572	16.17	109.55	0.650	0.00	4.00	7.300	4.75	76.8	0.0	175.9
138.0	Appertunance(s)	0.00	1.50	9.632	16.27	106.83	0.650	0.00	3.00	5.300	3.45	56.1	0.0	127.7
140.0		0.00	1.51	9.672	16.34	105.00	0.650	0.00	2.00	3.450	2.24	36.7	0.0	83.1
Totals:								140.00			3,328.9	0.0	22,952.4	

Pole : 310968
 Location : WSPT-Westport Rebuild CT, CT
 Height : 140.0 (ft)
 Shape : 18 Sides
 Base Dia : 47.13 (in)
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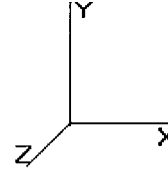
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Base Elev : 0.000 (ft)



Load Case: Twist/Sway	50.00 mph Wind with No Ice	22 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)
76.00	Andrew DB844H80E-	6	8.123	13.727	0.88	19.69	0.000	0.000	270.35	0.00	0.00	60.00
76.00	Andrew 932DG65T2E-	3	8.123	13.727	0.76	7.96	0.000	0.000	109.23	0.00	0.00	28.50
76.00	Powerwave P65-16-	3	8.123	13.727	0.75	18.90	0.000	0.000	259.44	0.00	0.00	99.00
76.00	Flat Low Profile Pla	1	8.123	13.727	1.00	26.10	0.000	0.000	358.28	0.00	0.00	1,500.00
87.00	RFS ATMAA1412D-	3	8.442	14.268	0.50	1.75	0.000	0.000	25.04	0.00	0.00	39.00
87.00	Andrew	3	8.442	14.268	0.50	1.14	0.000	0.000	16.27	0.00	0.00	33.00
87.00	RFS APX16DWV-	3	8.442	14.268	0.67	13.47	0.000	0.000	192.14	0.00	0.00	118.80
87.00	Flat Low Profile Pla	1	8.442	14.268	1.00	26.10	0.000	0.000	372.39	0.00	0.00	1,500.00
100.0	14" x 9" TTA	12	8.785	14.847	0.50	7.38	0.000	0.000	109.57	0.00	0.00	120.00
100.0	Diplexer	6	8.785	14.847	0.50	2.10	0.000	0.000	31.18	0.00	0.00	30.00
100.0	Flat Low Profile Pla	1	8.785	14.847	1.00	26.10	0.000	0.000	387.50	0.00	0.00	1,500.00
100.0	56" x 6" Panel	6	8.785	14.847	0.75	15.53	0.000	0.000	230.50	0.00	0.00	120.00
120.0	Flat Low Profile Pla	1	9.255	15.641	1.00	26.10	0.000	0.000	408.22	0.00	0.00	1,500.00
120.0	48" x 8" Panel	12	9.255	15.641	0.91	40.73	0.000	0.000	637.07	0.00	0.00	168.00
131.0	Flat Low Profile Pla	1	9.490	16.038	1.00	26.10	0.000	0.000	418.58	0.00	0.00	1,500.00
131.0	KMW AM-X-WM-17-65-	3	9.490	16.038	0.72	6.83	0.000	0.000	109.47	0.00	0.00	90.00
131.0	KMW	3	9.490	16.038	0.50	1.69	0.000	0.000	27.18	0.00	0.00	47.70
138.0	Flat Platform w/ Han	1	9.632	16.278	1.00	42.40	0.000	0.000	690.18	0.00	0.00	2,000.00
138.0	6' Omni	3	9.632	16.278	1.00	5.28	0.000	0.000	85.94	0.00	0.00	75.00
138.0	8' Omni	2	9.632	16.278	1.00	4.80	0.000	0.000	78.13	0.00	0.00	80.00
138.0	6' Omni	2	9.632	16.278	1.00	3.52	0.000	0.000	57.30	0.00	0.00	50.00
138.0	8' FM Antenna	1	9.711	16.411	1.00	10.00	0.000	4.000	164.11	0.00	656.46	50.00
138.0	6' Dipole	1	9.632	16.278	1.00	4.00	0.000	0.000	65.11	0.00	0.00	30.00
									5,103.20			10,739.00

Pole : 310968
 Location : WSPT-Westport Rebuild CT, CT
 Height : 140.0 (ft)
 Shape : 18 Sides
 Base Dia : 47.13 (in)
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 Taper : 0.200036 (in/ft)

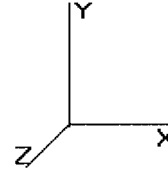
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Base Elev : 0.000 (ft)



Load Case: Twist/Sway	50.00 mph Wind with No Ice	22 Iterations
Gust Response Factor : 1.69		
Dead Load Factor : 1.00		
Wind Load Factor : 1.00		

Linear Appurtenance Segment Forces

Seg Top Elev (ft)	Description	Exposed To Wind	Length (ft)	Weight (lb/ft)	CaAa (sf/ft)	qz (psf)	FX (lb)	Dead Load (lb)
5.00	(12) 1 5/8" Coax	Yes	5.00	9.84	0.40	6.400	21.63	49.20
10.00	(12) 1 5/8" Coax	Yes	5.00	9.84	0.40	6.400	21.63	49.20
15.00	(12) 1 5/8" Coax	Yes	5.00	9.84	0.40	6.400	21.63	49.20
20.00	(12) 1 5/8" Coax	Yes	5.00	9.84	0.40	6.400	21.63	49.20
25.00	(12) 1 5/8" Coax	Yes	5.00	9.84	0.40	6.400	21.63	49.20
30.00	(12) 1 5/8" Coax	Yes	5.00	9.84	0.40	6.400	21.63	49.20
35.00	(12) 1 5/8" Coax	Yes	5.00	9.84	0.40	6.509	22.00	49.20
40.00	(12) 1 5/8" Coax	Yes	5.00	9.84	0.40	6.762	22.85	49.20
45.00	(12) 1 5/8" Coax	Yes	5.00	9.84	0.40	6.993	23.64	49.20
46.25	(12) 1 5/8" Coax	Yes	1.25	9.84	0.40	7.048	5.96	12.30
50.00	(12) 1 5/8" Coax	Yes	3.75	9.84	0.40	7.207	18.27	36.90
51.00	(12) 1 5/8" Coax	Yes	1.00	9.84	0.40	7.248	4.90	9.84
55.00	(12) 1 5/8" Coax	Yes	4.00	9.84	0.40	7.406	20.02	39.36
60.00	(12) 1 5/8" Coax	Yes	5.00	9.84	0.40	7.592	25.66	49.20
65.00	(12) 1 5/8" Coax	Yes	5.00	9.84	0.40	7.768	26.25	49.20
70.00	(12) 1 5/8" Coax	Yes	5.00	9.84	0.40	7.934	26.82	49.20
75.00	(12) 1 5/8" Coax	Yes	5.00	9.84	0.40	8.092	27.35	49.20
76.00	(12) 1 5/8" Coax	Yes	1.00	9.84	0.40	8.123	5.49	9.84
80.00	(12) 1 5/8" Coax	Yes	4.00	9.84	0.40	8.242	22.29	39.36
85.00	(12) 1 5/8" Coax	Yes	5.00	9.84	0.40	8.387	28.35	49.20
87.00	(12) 1 5/8" Coax	Yes	2.00	9.84	0.40	8.442	11.41	19.68
Totals:							421.05	856.08

Pole : 310968
 Location : WSPT-Westport Rebuild CT, CT
 Height : 140.0 (ft)
 Shape : 18 Sides
 Base Dia : 47.13 (in)
 Top Dia : 20.50 (in)
 Taper : 0.200036 (in/ft)

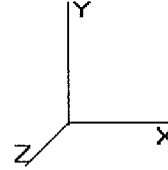
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Base Elev : 0.000 (ft)



Load Case: Twist/Sway 50.00 mph Wind with No Ice 22 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	158.23	1,478.94	0.00	0.00
10.00	155.30	1,451.93	0.00	0.00
15.00	152.37	1,424.93	0.00	0.00
20.00	149.44	1,397.92	0.00	0.00
25.00	146.51	1,370.92	0.00	0.00
30.00	143.58	1,343.91	0.00	0.00
35.00	143.03	1,316.91	0.00	0.00
40.00	145.50	1,289.90	0.00	0.00
45.00	147.28	1,262.90	0.00	0.00
46.25	36.60	311.50	0.00	0.00
50.00	113.52	1,693.96	0.00	0.00
51.00	30.13	446.59	0.00	0.00
55.00	121.79	986.55	0.00	0.00
60.00	152.94	1,208.88	0.00	0.00
65.00	152.92	1,181.88	0.00	0.00
70.00	152.56	1,154.87	0.00	0.00
75.00	151.90	1,127.87	0.00	0.00
76.00	1,027.35	1,909.83	0.00	0.00
80.00	120.46	839.17	0.00	0.00
85.00	149.75	1,024.66	0.00	0.00
87.00	665.05	2,093.10	0.00	0.00
90.00	71.23	565.83	0.00	0.00
93.50	82.22	647.85	0.00	0.00
95.00	35.25	363.10	0.00	0.00
97.25	52.55	538.38	0.00	0.00
100.0	822.39	2,003.47	0.00	0.00
105.0	114.17	367.22	0.00	0.00
110.0	111.57	357.09	0.00	0.00
115.0	108.81	346.96	0.00	0.00
120.0	1,151.20	2,004.84	0.00	0.00
125.0	102.86	288.91	0.00	0.00
130.0	99.68	278.78	0.00	0.00
131.0	574.69	1,692.24	0.00	0.00
135.0	76.76	198.99	0.00	0.00
138.0	1,196.86	2,429.99	0.00	656.46
140.0	36.65	83.08	0.00	0.00
Totals:	8,853.11	38,483.83	0.00	656.46

Pole : 310968
 Location : WSPT-Westport Rebuild CT, CT
 Height : 140.0 (ft)
 Shape : 18 Sides
 Base Dia : 47.13 (in)
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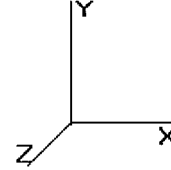
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Base Elev : 0.000 (ft)



Load Case: Twist/Sway	50.00 mph Wind with No Ice	22 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	-8.872	-38.479	0.000	0.000	0.000	-834.619	0.000	0.000	0.000	0.000
5.00	-8.750	-36.992	0.000	0.000	0.000	-790.260	-0.031	0.000	0.031	-0.057
10.00	-8.628	-35.531	0.000	0.000	0.000	-746.512	-0.121	0.000	0.121	-0.114
15.00	-8.507	-34.098	0.000	0.000	0.000	-703.373	-0.272	0.000	0.272	-0.172
20.00	-8.386	-32.692	0.000	0.000	0.000	-660.840	-0.483	0.000	0.483	-0.230
25.00	-8.265	-31.314	0.000	0.000	0.000	-618.912	-0.756	0.000	0.756	-0.289
30.00	-8.145	-29.962	0.000	0.000	0.000	-577.587	-1.090	0.000	1.090	-0.348
35.00	-8.023	-28.638	0.000	0.000	0.000	-536.864	-1.486	0.000	1.486	-0.407
40.00	-7.895	-27.341	0.000	0.000	0.000	-496.752	-1.944	0.000	1.944	-0.466
45.00	-7.754	-26.075	0.000	0.000	0.000	-457.276	-2.463	0.000	2.463	-0.524
46.25	-7.728	-25.759	0.000	0.000	0.000	-447.584	-2.603	0.000	2.603	-0.539
50.00	-7.609	-24.063	0.000	0.000	0.000	-418.605	-3.044	0.000	3.044	-0.584
51.00	-7.587	-23.613	0.000	0.000	0.000	-410.996	-3.168	0.000	3.168	-0.596
55.00	-7.474	-22.621	0.000	0.000	0.000	-380.650	-3.687	0.000	3.687	-0.642
60.00	-7.326	-21.408	0.000	0.000	0.000	-343.282	-4.388	0.000	4.388	-0.694
65.00	-7.176	-20.222	0.000	0.000	0.000	-306.652	-5.142	0.000	5.142	-0.745
70.00	-7.024	-19.063	0.000	0.000	0.000	-270.773	-5.950	0.000	5.950	-0.795
75.00	-6.865	-17.934	0.000	0.000	0.000	-235.653	-6.807	0.000	6.807	-0.842
76.00	-5.816	-16.037	0.000	0.000	0.000	-228.788	-6.985	0.000	6.985	-0.851
80.00	-5.693	-15.196	0.000	0.000	0.000	-205.526	-7.714	0.000	7.714	-0.887
85.00	-5.534	-14.171	0.000	0.000	0.000	-177.061	-8.667	0.000	8.667	-0.930
87.00	-4.840	-12.087	0.000	0.000	0.000	-165.992	-9.060	0.000	9.060	-0.947
90.00	-4.764	-11.521	0.000	0.000	0.000	-151.474	-9.663	0.000	9.663	-0.972
93.50	-4.674	-10.873	0.000	0.000	0.000	-134.800	-10.386	0.000	10.386	-0.999
95.00	-4.635	-10.509	0.000	0.000	0.000	-127.788	-10.702	0.000	10.702	-1.011
97.25	-4.576	-9.970	0.000	0.000	0.000	-117.359	-11.182	0.000	11.182	-1.027
100.0	-3.725	-7.979	0.000	0.000	0.000	-104.773	-11.780	0.000	11.780	-1.047
105.0	-3.614	-7.609	0.000	0.000	0.000	-86.148	-12.920	0.000	12.920	-1.126
110.0	-3.504	-7.250	0.000	0.000	0.000	-68.079	-14.139	0.000	14.139	-1.198
115.0	-3.394	-6.902	0.000	0.000	0.000	-50.560	-15.428	0.000	15.428	-1.259
120.0	-2.202	-4.922	0.000	0.000	0.000	-33.590	-16.775	0.000	16.775	-1.309
125.0	-2.095	-4.635	0.000	0.000	0.000	-22.580	-18.167	0.000	18.167	-1.346
130.0	-1.990	-4.358	0.000	0.000	0.000	-12.105	-19.591	0.000	19.591	-1.371
131.0	-1.375	-2.680	0.000	0.000	0.000	-10.116	-19.879	0.000	19.879	-1.375
135.0	-1.294	-2.482	0.000	0.000	0.000	-4.615	-21.036	0.000	21.036	-1.386
138.0	-0.039	-0.082	0.000	0.000	0.000	-0.077	-21.908	0.000	21.908	-1.389
140.0	-0.037	0.000	0.000	0.000	0.000	0.000	-22.490	0.000	22.490	-1.389

Pole : 310968
 Location : WSPT-Westport Rebuild CT, CT
 Height : 140.0 (ft)
 Shape : 18 Sides
 Base Dia : 47.13 (in)
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 Taper : 0.200036 (in/ft)

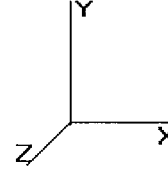
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Base Elev : 0.000 (ft)



Load Case: Twist/Sway	50.00 mph Wind with No Ice	22 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	0.52	0.24	0.00	0.00	0.00	11.79	12.32	52.0	0.0	0.237
5.00	0.51	0.24	0.00	0.00	0.00	11.66	12.18	52.0	0.0	0.234
10.00	0.50	0.25	0.00	0.00	0.00	11.52	12.03	52.0	0.0	0.231
15.00	0.49	0.25	0.00	0.00	0.00	11.36	11.86	52.0	0.0	0.228
20.00	0.48	0.25	0.00	0.00	0.00	11.18	11.67	52.0	0.0	0.225
25.00	0.47	0.25	0.00	0.00	0.00	10.98	11.46	52.0	0.0	0.221
30.00	0.46	0.25	0.00	0.00	0.00	10.76	11.24	52.0	0.0	0.216
35.00	0.46	0.26	0.00	0.00	0.00	10.52	10.98	52.0	0.0	0.211
40.00	0.45	0.26	0.00	0.00	0.00	10.25	10.70	52.0	0.0	0.206
45.00	0.44	0.26	0.00	0.00	0.00	9.94	10.39	52.0	0.0	0.200
46.25	0.43	0.26	0.00	0.00	0.00	9.86	10.31	52.0	0.0	0.198
50.00	0.41	0.26	0.00	0.00	0.00	9.61	10.03	52.0	0.0	0.193
51.00	0.40	0.26	0.00	0.00	0.00	9.03	9.44	52.0	0.0	0.182
55.00	0.39	0.26	0.00	0.00	0.00	8.74	9.14	52.0	0.0	0.176
60.00	0.38	0.26	0.00	0.00	0.00	8.33	8.72	52.0	0.0	0.168
65.00	0.37	0.26	0.00	0.00	0.00	7.88	8.26	52.0	0.0	0.159
70.00	0.36	0.27	0.00	0.00	0.00	7.38	7.76	52.0	0.0	0.149
75.00	0.35	0.27	0.00	0.00	0.00	6.83	7.19	52.0	0.0	0.138
76.00	0.31	0.23	0.00	0.00	0.00	6.71	7.04	52.0	0.0	0.135
80.00	0.30	0.23	0.00	0.00	0.00	6.34	6.66	52.0	0.0	0.128
85.00	0.29	0.23	0.00	0.00	0.00	5.83	6.13	52.0	0.0	0.118
87.00	0.25	0.20	0.00	0.00	0.00	5.61	5.87	52.0	0.0	0.113
90.00	0.25	0.20	0.00	0.00	0.00	5.33	5.59	52.0	0.0	0.108
93.50	0.24	0.21	0.00	0.00	0.00	4.98	5.23	52.0	0.0	0.101
95.00	0.23	0.21	0.00	0.00	0.00	4.82	5.07	52.0	0.0	0.097
97.25	0.58	0.54	0.00	0.00	0.00	11.49	12.10	51.3	0.0	0.236
100.00	0.47	0.45	0.00	0.00	0.00	10.66	11.16	51.8	0.0	0.216
105.00	0.47	0.45	0.00	0.00	0.00	9.42	9.92	52.0	0.0	0.191
110.00	0.46	0.45	0.00	0.00	0.00	8.02	8.52	52.0	0.0	0.164
115.00	0.46	0.45	0.00	0.00	0.00	6.44	6.94	52.0	0.0	0.134
120.00	0.34	0.31	0.00	0.00	0.00	4.64	5.01	52.0	0.0	0.096
125.00	0.33	0.30	0.00	0.00	0.00	3.39	3.76	52.0	0.0	0.072
130.00	0.33	0.30	0.00	0.00	0.00	1.99	2.37	52.0	0.0	0.046
131.00	0.20	0.21	0.00	0.00	0.00	1.69	1.93	52.0	0.0	0.037
135.00	0.20	0.21	0.00	0.00	0.00	0.83	1.09	52.0	0.0	0.021
138.00	0.01	0.01	0.00	0.00	0.00	0.01	0.02	52.0	0.0	0.000
140.00	0.00	0.01	0.00	0.00	0.00	0.00	0.01	52.0	0.0	0.000

Pole : 310968
 Location : WSPT-Westport Rebuild CT, CT
 Height : 140.0 (ft)
 Shape : 18 Sides
 Base Dia : 47.13 (in)
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 Taper : 0.200036 (in/ft)

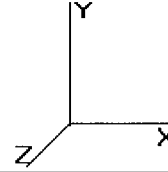
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Base Elev : 0.000 (ft)



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	25.6	0.00	38.45	0.00	0.00	2410.86	34.59	52.0	0.00	0.666
Ice	21.8	0.00	44.97	0.00	0.00	2093.59	30.45	51.3	97.25	0.593
Twist/Sway	8.9	0.00	38.48	0.00	0.00	834.62	12.32	52.0	0.00	0.237

Pole : 310968
 Location : WSPT-Westport Rebuild CT, CT
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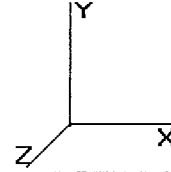
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Base Elev : 0.000 (ft)



Base Summary

Reactions

Original Design			Analysis			Moment
Moment (kip-ft)	Axial (kip)	Shear (kip)	Moment (kip-ft)	Axial (kip)	Shear (kip)	Design %
3,550.00	37.00	35.00	2,410.86	44.97	25.64	67.91

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
50.0	3.250	54.000	Clipped	0	12.00	9.349	281.84	49.99	17.12	0.34

Anchor Bolts

Bolt Circle	Num Bolts	Bolt Type	Bolt Dia (in)	Yield (ksi)	Ultimate (ksi)	Arrange	Cluster Dist (in)	Start Angle (deg)	Compression			Tension		
									Force (kip)	Allow (kip)	Ratio	Force (kip)	Allow (kip)	Ratio
54.00	16	2.25" 18J	2.25	75.00	100.00	Clustered	6.00	45.0	136.75	194.98	0.70	131.13	194.98	0.67

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

ORIGINAL

December 13, 2010

RECEIVED
DEC 14 2010
CONNECTICUT
SITING COUNCIL

Linda Roberts
Executive Director
Connecticut Siting Council
10 Franklin Square
New Britain, CT 06051

Re: **Notice of Completion of Construction Activity**
EM-VER-148-100309 – 20 Alexander Drive, Wallingford, Connecticut
EM-VER-156-100211 – 668 Jones Hill Road, West Haven, Connecticut
EM-VER-157-100422 – 56 Northfield Road, Weston, Connecticut
EM-VER-158-100216 – Bayberry Lane, Westport, Connecticut
EM-VER-158-100119 – Post Office Lane, Westport, Connecticut
EM-VER-167-100222 – 77 Pease Road, Woodbridge, Connecticut

Dear Ms. Roberts:

The purpose of this letter is to notify you that construction activity associated with the above-referenced facility modifications has been completed.

If you have any questions or need any additional information regarding any of these facilities, please do not hesitate to contact me.



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Sincerely,

Kenneth C. Baldwin

KCB/kmd

Copy to:

Sandy M. Carter