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March 16, 2010

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Hartford, CT 06103-3597
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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**
150 Willow Street, Hamden, Connecticut

Dear Mr. Phelps:

Cellco Partnership d/b/a Verizon Wireless ("Cellco") currently maintains wireless telecommunications antennas at the 147-foot level on an existing 157-foot tower at the above-referenced address. The tower is owned by Sprint Sites USA. The Council approved Cellco's shared use of the existing tower in 2008 through its approval of EM-VER-062-080213. Cellco now intends to modify its installation by replacing six (6) of its PCS antennas with three (3) model MG D3-800T0 PCS antennas; two (2) model P65-16-XL-2 LTE antennas; and one (1) LNX-6514DS-T4M LTE antenna, all at the same 147-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 Scott D. Jackson, Mayor for the Town of Hamden. A copy of this letter is also being sent to Hamden Fish & Life Protective Association, Inc., 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 the increase in the height of the existing tower. Cellco's replacement antennas will be located at the same 147-foot level on the existing 157-foot tower.



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S. Derek Phelps
March 16, 2010
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2. The proposed modifications will not involve any change to ground-mounted equipment and, therefore, will not require the extension of the site boundary.

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

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:

Scott D. Jackson, Hamden Mayor
Hamden Fish & Life Protective Association, Inc.
Sandy M. Carter





SINGLE-BAND PANEL ANTENNA

BROADBAND 1700-2170 MHz

MGD3-800TX

1710-1880	1850-1990	1920-2170
H66° V7.2°	H64° V6.6°	H63° V6.3°
Fixed Tilt 0°, 2°, 4°, 6°	Fixed Tilt 0°, 2°, 4°, 6°	Fixed Tilt 0°, 2°, 4°, 6°

ELECTRICAL SPECIFICATIONS

BROADBAND 1710-2170 MHz

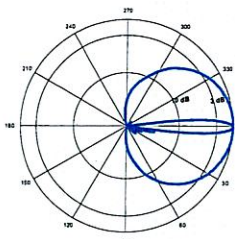
Antenna Model	MGD3-800TX		
Polarization	± 45°		
Frequency	1710 - 1880	1850 - 1990	1920 - 2170
Horizontal Beamwidth	66°	64°	63°
Vertical Beamwidth	7.2°	6.6°	6.3°
Gain (dBi)	17.9	18	18.5
Vertical Electrical Tilt	FIXED 0°, 2°, 4°, 6°	FIXED 0°, 2°, 4°, 6°	FIXED 0°, 2°, 4°, 6°
Upper Sidelobe Suppression for the 1 st lobe above main beam (dB)	20	20	20
Front-to-Back Ratio /Cpol @ ± 20° (dB)	> 30	> 30	> 30
VSWR	< 1.4 : 1	< 1.4 : 1	< 1.4 : 1
Cross Polar Ratio @ ± 60° (dB)	> 10	> 10	> 10
Isolation Between Ports (dB)	> 30	> 30	> 30
Maximum Power Per Input (W)	250		
Intermodulation (dBc)	< - 150		
Impedance (Ω)	50		

MECHANICAL SPECIFICATIONS

Connectors	2 X 7/16 Female
Connector Position	Bottom
Survival Wind Speed mph (km/h)	124 (200)
Front Windload lbs (N) @ 160 km/h	83 (370)
Lateral Windload lbs (N) @ 160 km/h	38 (170)
Radome Color	Grey, paintable
Temperature Range F (°C)	-67° to 140° (-55° to +60°)
Humidity	100%
Antenna Weight lbs (kg)	15.43 (7)
Antenna Dimension in (mm) H X W X D	53 X 6.29 X 3.54 (1340 X 160 X 90)



H&V Pattern



RYMSA Telecom Group (Headquarters)

10000 Highway 40, Suite 100
Dallas, Texas 75241, USA
Phone: +1 214 343 7000
Fax: +1 214 343 7001
E-Mail: sales@rymsa.com



www.rymsawireless.com

RYMSA México: sales@rymsa.com.mx

Phone: +52 55 5100 0000

RYMSA Wireless U.S.A.: sales@rymsa.com

Phone: +1 888 622 6000

**P65-16-XL
-2****Very Low Broadband Antennas**

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*

Frequency range (MHz)	698-894	
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
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/>.

Product Specifications



LNx-6514DS-T4M

DualPol® Antenna, 698–896 MHz, 65° horizontal beamwidth, fixed electrical tilt



- Broadband, providing future-ready single antenna for application in 700 MHz and existing 850 MHz cellular operation
- Air dielectric design provides superior PIM performance with repeatable antenna-to-antenna gain and pattern consistency
- Single piece radome provides long term mechanical stability
- Proven core design technology, with over 1,000,000 similar antennas deployed
- Exceptional USLS pattern shaping for optimizing coverage and interference mitigation for LTE applications
- Specifically designed to have physical dimensions similar to most existing cellular antennas

CHARACTERISTICS

General Specifications

Antenna Type	DualPol®
Brand	DualPol®
Operating Frequency Band	698 – 896 MHz

Electrical Specifications

Frequency Band, MHz	698–806	806–896
Beamwidth, Horizontal, degrees	66	64
Gain, dBd	13.8	14.5
Gain, dBi	15.9	16.6
Beamwidth, Vertical, degrees	12.0	11.0
Beam Tilt, degrees	4	4
Upper Sidelobe Suppression (USLS), typical, dB	18	18
Front-to-Back Ratio at 180°, dB	33	33
Isolation, dB	30	30
VSWR Return Loss, db	1.35:1 16.5	1.35:1 16.5
Intermodulation Products, 3rd Order, 2 x 20 W, dBc	-150	-150
Input Power, maximum, watts	500	500
Polarization	±45°	±45°
Impedance, ohms	50	50
Lightning Protection	dc Ground	dc Ground

Product Specifications

INX-6514DS-T4M



Mechanical Specifications

Color	Light gray
Connector Interface	7-16 DIN Female
Connector Location	Bottom
Connector Quantity	2
Wind Loading, maximum	617.7 N @ 150 km/h 138.9 lbf @ 150 km/h
Wind Speed, maximum	241.0 km/h 149.8 mph

Dimensions

Depth	181.0 mm 7.1 in
Length	1847.0 mm 72.7 in
Width	301.0 mm 11.9 in
Net Weight	17.4 kg 38.4 lb

Regulatory Compliance/Certifications

Agency

RoHS 2002/95/EC
China RoHS SJ/T 11364-2006

Classification

Compliant by Exemption
Above Maximum Concentration Value (MCV)



INCLUDED PRODUCTS



MTG-L-STD

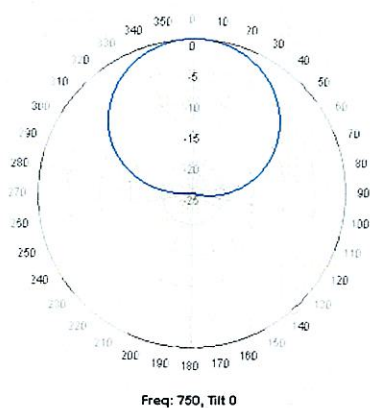
Downtilt Mounting Kit for panel Antennas

Product Specifications

LNK-6514DS-T4M

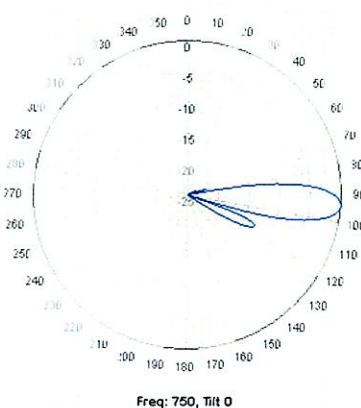


Horizontal Pattern

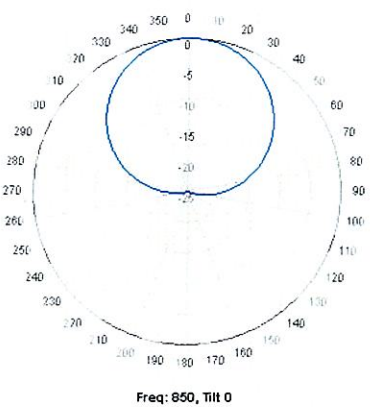


Freq: 750, Tilt 0

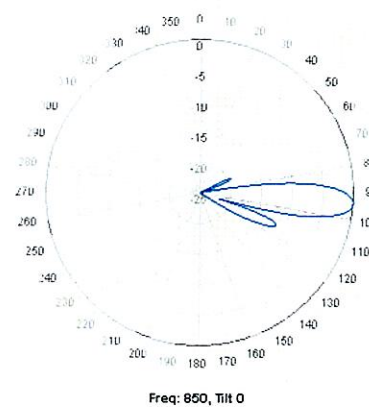
Vertical Pattern



Freq: 750, Tilt 0



Freq: 850, Tilt 0



Freq: 850, Tilt 0

[illegible]



Structural Analysis Report

Prepared for:

**Sprint Sites USA
1825 Lockeway Drive
Suite 201
Alpharetta, GA 30004**

ATTN: Ms. Deborah MacMaster

Structure	: 157 ft EEI Monopole
Proposed Carrier	: Verizon
Site ID	: CT54XC773
Site Location	: Hamden, CT
County	: New Haven
Date	: March 5, 2010
Usage	: 67.7%

Semaan Engineering Solutions, LLC
1079 N. 205th Street
Elkhorn, NE 68022
Phone: 402-289-1888

Introduction

The purpose of this report is to summarize results of the structural analysis performed on the 157 ft EEI Monopole located at Hamden, CT, New Haven County (site #CT54XC773). The tower was originally designed and manufactured by EEI (Drawing # Job No 14977 dated July 16, 2007).

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. The analysis was performed in conformance with **ANSI/TIA-222 Rev G and local building codes for a basic wind speed of 115 mph and 1"1/4 radial ice with reduced wind speed (3-second gust), Structure Classification II, Exposure C.** This is in conformance with the IBC 2006: Section 1609.1.1, Exception (4) and Section 3108.4.

Basic Wind Speed: 115.0 mph
Radial Ice: 50.0 mph w/ 1.25" ice
Code: ANSI/TIA-222 Rev G

Antenna Loads

The following antenna loads were used in the tower analysis.

Existing Antennas

Elev. (ft)	Qty	Antennas	Mount	Coax (in)	Carrier
157.0	9	DB848H90E-M	Platform w/Rail	(9) 1 5/8"	Sprint-Nextel
	2	VHLP2-18-1WH		(2) 1/2"	
	3	DTMA-BRS160		(6) 1 5/8"	
	3	XP4-65-R			
137.0	3	742 213	(3) Pipe Mount	(6) 1 5/8"	Youghiogheny Communications

Proposed Antennas

Elev. (ft)	Qty	Antennas	Mount	Coax (in)	Carrier
147.0	3	MGD3-800Tx	Low Profile Platform	(12) 1 5/8"	Verizon
	2	P65-16-XL-2			
	6	TMA's			
	1	LNK-6514DS-T4M			
	6	LPA-80080/4CF			

All transmission lines are assumed running inside of pole shaft.

All new access holes shall be reinforced with welded rims that are compatible with the pole and to be sized and supplied by pole manufacturer.

Results

The existing monopole is structurally capable of supporting the existing and proposed antennas. The maximum structure usage is: 67.7%.

Pole Reactions	Original Design Reactions	Current Analysis Reactions	% Of Design
Moment (ft-kips)	7,151.38	4,239.95	59.3
Shear (kips)	61.40	39.79	64.8

The analysis reactions are less than the design reactions therefore no foundation modifications are required.

Conclusion

Based on the analysis results, the existing structure meets the requirements per the ANSI/TIA-222 Rev G standards for a basic wind speed of 115 mph and 1"1/4 radial ice with reduced wind speed.

If you have any questions or require additional information, please call 402-289-1888.

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 Semaan Engineering Solutions, or generated by field inspections or measurements of the structure.

It is the responsibility of the client to ensure that the information provided to Semaan Engineering Solutions 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.

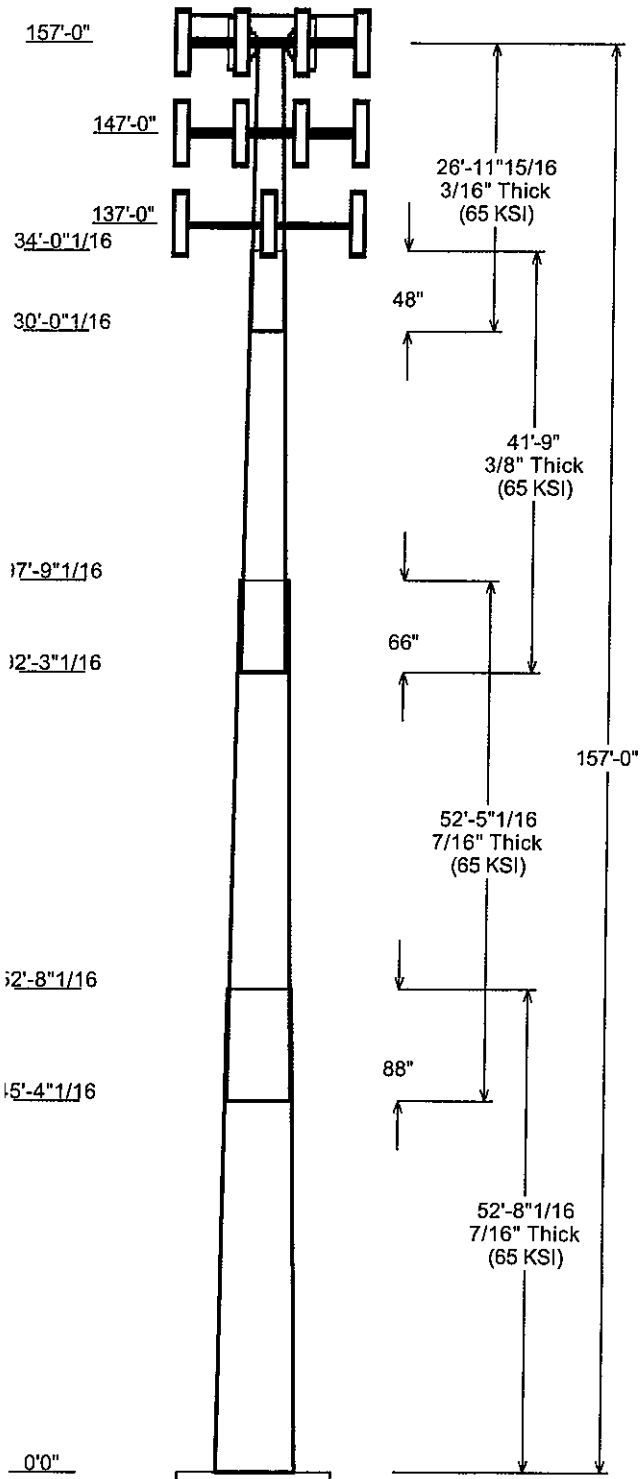
All services will be performed to the codes specified by the client, and we do not imply to meet any other codes or requirements unless explicitly agreed in writing. If wind and ice loads or other relevant parameters are to be different from the minimum values recommended by the codes, the client shall 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. Semaan Engineering Solutions is not responsible for the conclusions, opinions and recommendations made by others based on the information we supply.

SEMAAN ENGINEERING SOLUTIONS

1079 N.204th Avenue
Elkhorn, NE 68022
Phone: 402-289-1888
Fax: 402-289-1861

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**Job Information**

Pole :	CT54XC773	Code: ANSI/TIA-222 Rev G
Description :	Client : Sprint Sites USA - GA 2	Struct Class : II
Location : Hamden, CT	Exposure : C	Topo : 1
Shape : 18 Sides	Base Elev (ft): 0.00	
Height : 157.00 (ft)	Taper: 0.328026(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	52.670	50.72	68.00	0.438	0.000	0.328026	65
2	52.420	36.80	54.00	0.438 Slip Joint	88.000	0.328026	65
3	41.750	25.66	39.36	0.375 Slip Joint	66.000	0.328026	65
4	26.993	18.50	27.35	0.188 Slip Joint	48.000	0.328026	65

Discrete Appurtenance

Attach Elev (ft)	Force Elev (ft)	Qty	Description
157.000	157.000	9	DB848H90E-M
157.000	157.000	2	VHLP2-18-1WH
157.000	158.500	1	Platform w/Rail
157.000	157.000	3	DTMA-BRS160
157.000	157.000	3	XP4-65-R
147.000	147.000	3	MGD3-800Tx
147.000	147.000	2	P65-16-XL-2
147.000	147.000	1	Low Profile Platform
147.000	147.000	6	TMA's
147.000	147.000	1	LNX-6514DS-T4M
147.000	147.000	6	LPA-80080/4CF
137.000	137.000	3	Pipe Mount
137.000	137.000	3	742 213

Linear Appurtenance

Elev (ft)	From	To	Description	Exposed To Wind
0.000	137.0	157.0	1 5/8" Coax	No
0.000	147.0	157.0	1 5/8" Coax	No
0.000	157.0	157.0	1 5/8" Coax	No
0.000	157.0	157.0	1/2" Coax	No

Load Cases

1.2D + 1.6W	115.00 mph with No Ice
0.9D + 1.6W	115.00 mph with No Ice (Reduced DL)
1.2D + 1.0Di + 1.0Wi	50.00 mph with 1.25 in Radial Ice
1.0D + 1.0W	60.00 mph Serviceability

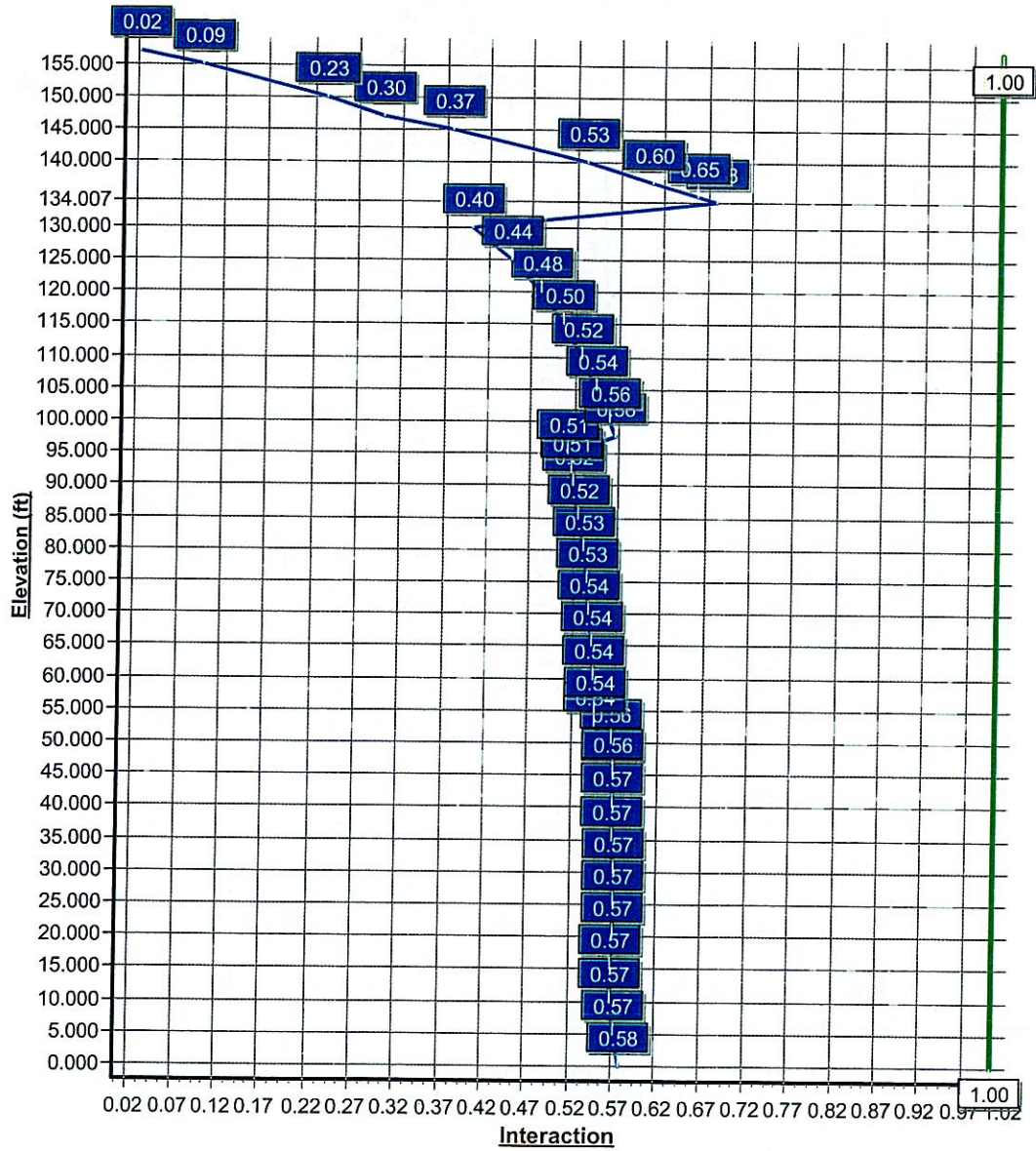
Reactions

Load Case	Moment (Kip-ft)	Shear (Kips)	Axial (Kips)
1.2D + 1.6W	4239.95	39.79	51.40
0.9D + 1.6W	4216.07	39.78	38.54
1.2D + 1.0Di + 1.0Wi	926.45	8.81	91.04
1.0D + 1.0W	719.02	6.77	42.87

Dish Deflections

Load Case	Attach Elev (ft)	Deflection (in)	Rotation (deg)
1.0D + 1.0W	157.00	12.514	0.841

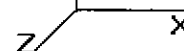
Load Case : 1.2D + 1.6W
Max Ratio 67.70% at 134.0ft



Pole : CT54XC773
 Location : Hamden, CT
 Height : 157.0 (ft)
 Shape : 18 Sides
 Base Dia : 68.00 (in)
 Top Dia : 18.50 (in)
 Taper : 0.328026 (in/ft)

Code: ANSI/TIA-222 Rev G
 Struct Class : II
 Exposure Category : C
 Topographic Category : 1

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Base Elev : 0.000 (ft)

Shaft Section Properties

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	52.670	0.4375	65		0.00	14,664	68.00	0.000	93.82	54105.3	26.00	155.4	50.72	52.67	69.83	22307.4	19.03	115.94	0.32803	
2	52.420	0.4375	65	Slip Joint	88.00	11,138	54.00	45.33	74.38	26964.2	20.35	123.4	36.80	97.75	50.50	8440.8	13.42	84.13	0.32803	
3	41.750	0.3750	65	Slip Joint	66.00	5,434	39.36	92.25	46.40	8911.5	17.10	104.9	25.66	134.0	30.10	2433.0	10.66	68.45	0.32803	
4	26.993	0.1875	65	Slip Joint	48.00	1,243	27.35	130.0	16.17	1507.5	24.31	145.8	18.50	157.0	10.90	461.7	15.99	98.67	0.32803	
Shaft Weight						32,480														

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)
157.0	DB848H90E-M	9	28.00	8.360	0.91	430.24	9.887	0.91	0.000	0.000
157.0	VHLP2-18-1WH	2	90.00	3.960	0.75	312.07	5.947	0.75	0.000	0.000
157.0	Platform w/Rail	1	2500.00	35.850	1.00	8343.98	62.791	1.00	0.000	1.500
157.0	DTMA-BRS160	3	11.00	0.664	0.88	41.91	1.781	0.88	0.000	0.000
157.0	XP4-65-R	3	20.00	3.481	0.95	233.42	4.982	0.95	0.000	0.000
147.0	MGD3-800Tx	3	15.43	3.351	0.78	192.59	4.995	0.78	0.000	0.000
147.0	P65-16-XL-2	2	44.00	8.400	1.00	389.14	10.383	1.00	0.000	0.000
147.0	Low Profile Platform	1	1600.00	25.550	1.00	4502.82	35.826	1.00	0.000	0.000
147.0	TMA's	6	17.50	0.960	0.67	51.23	2.179	0.67	0.000	0.000
147.0	LNx-6514DS-T4M	1	37.50	8.410	1.00	419.88	10.437	1.00	0.000	0.000
147.0	LPA-80080/4CF	6	12.00	6.057	0.71	269.86	7.127	0.71	0.000	0.000
137.0	Pipe Mount	3	53.32	3.500	1.00	230.19	16.701	1.00	0.000	0.000
137.0	742 213	3	22.05	5.132	0.72	249.14	7.346	0.72	0.000	0.000
Totals		43	5199.90			7918.48			Number of Loadings : 13	

Linear Appurtenance Properties

Elev From (ft)	Elev To (ft)	Description	Exposed Width (in)	Exposed To Wind
0.00	157.00	(15) 1 5/8" Coax	0.00	N
0.00	157.00	(2) 1/2" Coax	0.00	N
0.00	147.00	(12) 1 5/8" Coax	0.00	N
0.00	137.00	(6) 1 5/8" Coax	0.00	N

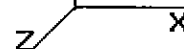
Seq Top Elev (ft)	Description	Thick (in)	Flat Dia (in)	Area (in^2)	Ix (in^4)	W/t Ratio	D/t Ratio	F'y (ksi)	S (in3)	Weight (lb)
0.00		0.4375	68.000	93.816	54,105.3	26.00	155.43	63.7	1567.	0.0
5.00		0.4375	66.360	91.538	50,259.8	25.33	151.68	64.4	1491.	1,576.8
10.00		0.4375	64.720	89.261	46,601.0	24.67	147.93	65.0	1418.	1,538.0
15.00		0.4375	63.080	86.983	43,124.3	24.01	144.18	65.0	1346.	1,499.3
20.00		0.4375	61.439	84.706	39,824.9	23.35	140.43	65.0	1276.	1,460.5
25.00		0.4375	59.799	82.428	36,698.2	22.69	136.68	65.0	1208.	1,421.8
30.00		0.4375	58.159	80.151	33,739.6	22.03	132.94	65.0	1142.	1,383.1
35.00		0.4375	56.519	77.874	30,944.5	21.37	129.19	65.0	1078.	1,344.3
40.00		0.4375	54.879	75.596	28,308.2	20.71	125.44	65.0	1016.	1,305.6
45.00		0.4375	53.239	73.319	25,826.0	20.05	121.69	65.0	955.5	1,266.8
45.34	Bot - Section 2	0.4375	53.128	73.165	25,664.3	20.00	121.44	65.0	951.4	83.9
50.00		0.4375	51.599	71.041	23,493.4	19.39	117.94	65.0	896.8	2,307.6
52.67	Top - Section 1	0.4375	51.598	71.040	23,492.2	19.39	117.94	65.0	896.8	1,290.9
55.00		0.4375	50.834	69.979	22,455.0	19.08	116.19	65.0	870.0	559.0
60.00		0.4375	49.193	67.701	20,333.2	18.42	112.44	65.0	814.1	1,171.2
65.00		0.4375	47.553	65.424	18,349.5	17.75	108.69	65.0	760.0	1,132.5
70.00		0.4375	45.913	63.146	16,499.1	17.09	104.94	65.0	707.8	1,093.7
75.00		0.4375	44.273	60.869	14,777.6	16.43	101.20	65.0	657.4	1,055.0
80.00		0.4375	42.633	58.592	13,180.1	15.77	97.45	65.0	608.9	1,016.2
85.00		0.4375	40.993	56.314	11,702.2	15.11	93.70	65.0	562.3	977.5
90.00		0.4375	39.353	54.037	10,339.0	14.45	89.95	65.0	517.5	938.7
92.26	Bot - Section 3	0.4375	38.612	53.009	9,760.2	14.15	88.26	65.0	497.9	411.0
95.00		0.4375	37.713	51.759	9,086.1	13.79	86.20	65.0	474.5	917.2
97.76	Top - Section 2	0.3750	37.558	44.256	7,730.7	16.25	100.16	65.0	405.4	899.8
100.0		0.3750	36.822	43.380	7,280.8	15.90	98.19	65.0	389.4	334.5
105.0		0.3750	35.182	41.428	6,341.4	15.13	93.82	65.0	355.0	721.5
110.0		0.3750	33.542	39.476	5,486.6	14.36	89.45	65.0	322.2	688.2
115.0		0.3750	31.902	37.524	4,712.2	13.59	85.07	65.0	290.9	655.0
120.0		0.3750	30.262	35.572	4,014.4	12.82	80.70	65.0	261.3	621.8
125.0		0.3750	28.622	33.620	3,389.1	12.05	76.32	65.0	233.2	588.6
130.0		0.3750	26.982	31.667	2,832.4	11.28	71.95	65.0	206.8	555.4
130.0	Bot - Section 4	0.3750	26.979	31.665	2,831.7	11.28	71.95	65.0	206.7	0.7
134.0	Top - Section 3	0.1875	26.042	15.386	1,299.5	23.08	138.89	65.0	98.3	635.1
135.0		0.1875	25.717	15.192	1,251.0	22.77	137.15	65.0	95.8	51.7
137.0		0.1875	25.060	14.802						

Pole : CT54XC773
 Location : Hamden, CT
 Height : 157.0 (ft)
 Shape : 18 Sides
 Base Dia : 68.00 (in)
 Top Dia : 18.50 (in)
 Taper : 0.328026 (in/ft)

Code: ANSI/TIA-222 Rev G
 Struct Class : II
 Exposure Category : C
 Topographic Category : 1

Base Elev : 0.000 (ft)

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Load Case: 1.2D + 1.6W

115.00 mph with No Ice

22 Iterations

Gust Response Factor : 1.10

Wind Importance Factor : 1.00

Dead Load Factor : 1.20

Wind Load Factor : 1.60

Shaft Segment Forces (Factored)

Seg Top Elev (ft)	Description	Kzt	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		1.00	0.85	27.339	30.07	610.07	0.650	0.00	0.00	0.000	0.00	0.0	0.0	0.0
5.00		1.00	0.85	27.339	30.07	595.36	0.650	0.00	5.00	28.423	18.48	889.0	0.0	1,892.2
10.00		1.00	0.85	27.339	30.07	580.64	0.650	0.00	5.00	27.730	18.02	867.3	0.0	1,845.7
15.00		1.00	0.85	27.339	30.07	565.93	0.650	0.00	5.00	27.036	17.57	845.6	0.0	1,799.2
20.00		1.00	0.90	29.008	31.90	567.79	0.650	0.00	5.00	26.342	17.12	874.1	0.0	1,752.7
25.00		1.00	0.94	30.403	33.44	565.76	0.650	0.00	5.00	25.648	16.67	892.0	0.0	1,706.2
30.00		1.00	0.98	31.592	34.75	560.91	0.650	0.00	5.00	24.954	16.22	901.9	0.0	1,659.7
35.00		1.00	1.01	32.634	35.89	554.01	0.650	0.00	5.00	24.260	15.77	905.7	0.0	1,613.2
40.00		1.00	1.04	33.565	36.92	545.54	0.650	0.00	5.00	23.566	15.32	904.9	0.0	1,566.7
45.00		1.00	1.07	34.408	37.84	535.84	0.650	0.00	5.00	22.872	14.87	900.3	0.0	1,520.2
45.34	Bot - Section 2	1.00	1.07	34.462	37.90	535.15	0.650	0.00	0.34	1.515	0.98	59.7	0.0	100.7
50.00		1.00	1.09	35.179	38.69	525.13	0.650	0.00	4.66	21.008	13.66	845.5	0.0	2,769.1
52.67	Top - Section 1	1.00	1.10	35.567	39.12	519.05	0.650	0.00	2.67	11.757	7.64	478.4	0.0	1,549.0
55.00		1.00	1.11	35.892	39.48	522.56	0.650	0.00	2.33	10.098	6.56	414.6	0.0	670.8
60.00		1.00	1.13	36.556	40.21	510.35	0.650	0.00	5.00	21.160	13.75	884.9	0.0	1,405.5
65.00		1.00	1.15	37.177	40.89	497.51	0.650	0.00	5.00	20.467	13.30	870.5	0.0	1,359.0
70.00		1.00	1.17	37.762	41.53	484.11	0.650	0.00	5.00	19.773	12.85	854.2	0.0	1,312.5
75.00		1.00	1.19	38.314	42.14	470.22	0.650	0.00	5.00	19.079	12.40	836.2	0.0	1,266.0
80.00		1.00	1.20	38.838	42.72	455.89	0.650	0.00	5.00	18.385	11.95	816.9	0.0	1,219.5
85.00		1.00	1.22	39.337	43.27	441.15	0.650	0.00	5.00	17.691	11.50	796.1	0.0	1,173.0
90.00		1.00	1.23	39.813	43.79	426.06	0.650	0.00	5.00	16.997	11.05	774.1	0.0	1,126.5
92.26	Bot - Section 3	1.00	1.24	40.021	44.02	419.14	0.650	0.00	2.26	7.444	4.84	340.8	0.0	493.2
95.00		1.00	1.25	40.269	44.29	410.63	0.650	0.00	2.74	9.033	5.87	416.1	0.0	1,100.6
97.76	Top - Section 2	1.00	1.26	40.512	44.56	401.99	0.650	0.00	2.76	8.867	5.76	410.9	0.0	1,079.8
100.0		1.00	1.26	40.706	44.77	403.11	0.650	0.00	2.24	7.060	4.59	328.8	0.0	401.4
105.0		1.00	1.27	41.127	45.23	387.14	0.650	0.00	5.00	15.232	9.90	716.7	0.0	865.7
110.0		1.00	1.29	41.531	45.68	370.90	0.650	0.00	5.00	14.538	9.45	690.8	0.0	825.9
115.0		1.00	1.30	41.922	46.11	354.42	0.650	0.00	5.00	13.845	9.00	664.0	0.0	786.0
120.0		1.00	1.31	42.299	46.52	337.71	0.650	0.00	5.00	13.151	8.55	636.4	0.0	746.2
125.0		1.00	1.32	42.664	46.93	320.78	0.650	0.00	5.00	12.457	8.10	608.0	0.0	706.3
130.0		1.00	1.33	43.018	47.32	303.65	0.650	0.00	5.00	11.763	7.65	578.9	0.0	666.5
130.0	Bot - Section 4	1.00	1.33	43.018	47.32	303.63	0.650	0.00	0.01	0.015	0.01	0.7	0.0	0.9
134.0	Top - Section 3	1.00	1.34	43.294	47.62	289.78	0.650	0.00	4.00	9.037	5.87	447.6	0.0	762.1
135.0		1.00	1.34	43.361	47.69	290.56	0.650	0.00	0.99	2.175	1.41	107.9	0.0	62.0
137.0	Appertunance(s)	1.00	1.35	43.496	47.84	283.59	0.650	0.00	2.00	4.297	2.79	213.8	0.0	122.5
140.0		1.00	1.35	43.694	48.06	273.08	0.650	0.00	3.00	6.237	4.05	311.8	0.0	177.7
145.0		1.00	1.36	44.018	48.42	255.41	0.650	0.00	5.00	9.840	6.40	495.5	0.0	280.3
147.0	Appertunance(s)	1.00	1.37	44.146	48.56	248.30	0.650	0.00	2.00	3.742	2.43	189.0	0.0	106.5
150.0		1.00	1.37	44.334	48.76	237.59	0.650	0.00	3.00	5.404	3.51	274.1	0.0	153.8
155.0		1.00	1.38	44.641	49.10	219.61	0.650	0.00	5.00	8.452	5.49	431.6	0.0	240.4
157.0	Appertunance(s)	1.00	1.39	44.761	49.23	212.37	0.650	0.00	2.00	3.186	2.07	163.2	0.0	90.6
Totals:									157.00			23,638.2	0.0	38,975.6

Pole : CT54XC773
 Location : Hamden, CT
 Height : 157.0 (ft)
 Shape : 18 Sides
 Base Dia : 68.00 (in)
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 Taper : 0.328026 (in/ft)

Code: ANSI/TIA-222 Rev G
 Struct Class : II
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Base Elev : 0.000 (ft)

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Load Case: 1.2D + 1.6W

115.00 mph with No Ice

22 Iterations

Gust Response Factor : 1.10

Wind Importance Factor : 1.00

Dead Load Factor : 1.20

Wind Load Factor : 1.60

Discrete Appurtenance Segment Forces (Factored)

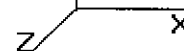
Elev (ft)	Description	Qty	qz (psf)	qzGh (psf)	CaAa Factor	Ka	Total CaAa (sf)	Horiz Ecc (ft)	Vert Ecc (ft)	Wind FX (lb)	Mom Y (lb-ft)	Mom Z (lb-ft)	Dead Load (lb)
137.0	Pipe Mount	3	43.496	47.845	1.00	1.00	10.50	0.000	0.000	803.80	0.00	0.00	191.95
137.0	742 213	3	43.496	47.845	0.58	0.80	8.87	0.000	0.000	678.87	0.00	0.00	79.38
147.0	MGD3-800Tx	3	44.146	48.560	0.62	0.80	6.27	0.000	0.000	487.39	0.00	0.00	55.55
147.0	P65-16-XL-2	2	44.146	48.560	1.00	1.00	16.80	0.000	0.000	1,305.30	0.00	0.00	105.60
147.0	Low Profile Platform	1	44.146	48.560	1.00	1.00	25.55	0.000	0.000	1,985.14	0.00	0.00	1,920.00
147.0	TMA's	6	44.146	48.560	0.54	0.80	3.09	0.000	0.000	239.88	0.00	0.00	126.00
147.0	LNx-6514DS-T4M	1	44.146	48.560	1.00	1.00	8.41	0.000	0.000	653.42	0.00	0.00	45.00
147.0	LPA-80080/4CF	6	44.146	48.560	0.57	0.80	20.64	0.000	0.000	1,603.82	0.00	0.00	86.40
157.0	DB848H90E-M	9	44.761	49.238	0.73	0.80	54.77	0.000	0.000	4,315.11	0.00	0.00	302.40
157.0	VHLP2-18-1WH	2	44.761	49.238	0.75	1.00	5.94	0.000	0.000	467.95	0.00	0.00	216.00
157.0	Platform w/Rail	1	44.851	49.336	1.00	1.00	35.85	0.000	1.500	2,829.93	0.00	4,244.89	3,000.00
157.0	DTMA-BRS160	3	44.761	49.238	0.70	0.80	1.40	0.000	0.000	110.48	0.00	0.00	39.60
157.0	XP4-65-R	3	44.761	49.238	0.76	0.80	7.94	0.000	0.000	625.25	0.00	0.00	72.00
										16,106.35			6,239.88

Pole : CT54XC773
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Load Case: 1.2D + 1.6W

115.00 mph with No Ice

22 Iterations

Gust Response Factor : 1.10

Wind Importance Factor : 1.00

Dead Load Factor : 1.20

Wind Load Factor : 1.60

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	888.96	2,099.97	0.00	0.00
10.00	867.25	2,053.47	0.00	0.00
15.00	845.55	2,006.98	0.00	0.00
20.00	874.14	1,960.48	0.00	0.00
25.00	892.05	1,913.98	0.00	0.00
30.00	901.87	1,867.48	0.00	0.00
35.00	905.71	1,820.99	0.00	0.00
40.00	904.89	1,774.49	0.00	0.00
45.00	900.30	1,727.99	0.00	0.00
45.34	59.73	114.68	0.00	0.00
50.00	845.48	2,962.94	0.00	0.00
52.67	478.36	1,660.01	0.00	0.00
55.00	414.62	767.68	0.00	0.00
60.00	884.93	1,613.30	0.00	0.00
65.00	870.45	1,566.81	0.00	0.00
70.00	854.16	1,520.31	0.00	0.00
75.00	836.24	1,473.81	0.00	0.00
80.00	816.85	1,427.31	0.00	0.00
85.00	796.12	1,380.81	0.00	0.00
90.00	774.15	1,334.32	0.00	0.00
92.26	340.82	586.99	0.00	0.00
95.00	416.14	1,214.64	0.00	0.00
97.76	410.93	1,194.35	0.00	0.00
100.0	328.76	494.63	0.00	0.00
105.0	716.67	1,073.57	0.00	0.00
110.0	690.75	1,033.71	0.00	0.00
115.0	663.97	993.86	0.00	0.00
120.0	636.36	954.00	0.00	0.00
125.0	607.99	914.15	0.00	0.00
130.0	578.88	874.29	0.00	0.00
130.0	0.75	1.14	0.00	0.00
134.0	447.57	928.38	0.00	0.00
135.0	107.91	103.30	0.00	0.00
137.0	1,696.47	476.94	0.00	0.00
140.0	311.76	279.97	0.00	0.00
145.0	495.50	450.67	0.00	0.00
147.0	6,463.91	2,513.24	0.00	0.00
150.0	274.09	211.13	0.00	0.00
155.0	431.62	335.94	0.00	0.00
157.0	8,511.89	3,758.80	0.00	4,244.89
Totals:	39,744.53	51,441.49	0.00	4,244.89

Pole : CT54XC773
 Location : Hamden, CT
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Load Case: 1.2D + 1.6W

115.00 mph with No Ice

22 Iterations

Gust Response Factor : 1.10

Wind Importance Factor : 1.00

Dead Load Factor : 1.20

Wind Load Factor : 1.60

Calculated Forces

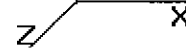
Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-51.40	-39.79	0.00	-4,239.95	0.00	4,239.95	5,382.06	2,691.03	14,961.9	7,492.11	0.00	0.00	0.576
5.00	-49.23	-39.00	0.00	-4,040.98	0.00	4,040.98	5,309.05	2,654.53	14,398.4	7,209.92	0.06	-0.11	0.570
10.00	-47.10	-38.22	0.00	-3,845.99	0.00	3,845.99	5,221.75	2,610.88	13,807.0	6,913.77	0.23	-0.22	0.566
15.00	-45.02	-37.45	0.00	-3,654.91	0.00	3,654.91	5,088.52	2,544.26	13,109.1	6,564.31	0.53	-0.33	0.566
20.00	-42.99	-36.66	0.00	-3,467.64	0.00	3,467.64	4,955.29	2,477.65	12,429.3	6,223.90	0.94	-0.45	0.566
25.00	-41.01	-35.83	0.00	-3,284.36	0.00	3,284.36	4,822.06	2,411.03	11,767.6	5,892.57	1.48	-0.57	0.566
30.00	-39.08	-35.00	0.00	-3,105.19	0.00	3,105.19	4,688.83	2,344.42	11,124.0	5,570.29	2.15	-0.70	0.566
35.00	-37.19	-34.15	0.00	-2,930.21	0.00	2,930.21	4,555.60	2,277.80	10,498.5	5,257.08	2.95	-0.82	0.566
40.00	-35.35	-33.30	0.00	-2,759.45	0.00	2,759.45	4,422.37	2,211.19	9,891.16	4,952.93	3.88	-0.95	0.565
45.00	-33.60	-32.41	0.00	-2,592.95	0.00	2,592.95	4,289.14	2,144.57	9,301.86	4,657.84	4.95	-1.09	0.565
45.34	-33.45	-32.39	0.00	-2,582.04	0.00	2,582.04	4,280.17	2,140.08	9,262.83	4,638.30	5.03	-1.10	0.565
50.00	-30.45	-31.54	0.00	-2,430.99	0.00	2,430.99	4,155.91	2,077.95	8,730.66	4,371.82	6.17	-1.23	0.564
52.67	-28.76	-31.06	0.00	-2,346.78	0.00	2,346.78	4,155.84	2,077.92	8,730.38	4,371.68	6.88	-1.31	0.544
55.00	-27.94	-30.68	0.00	-2,274.41	0.00	2,274.41	4,093.76	2,046.88	8,470.39	4,241.49	7.53	-1.37	0.543
60.00	-26.28	-29.82	0.00	-2,121.01	0.00	2,121.01	3,960.53	1,980.26	7,925.73	3,968.76	9.05	-1.51	0.541
65.00	-24.67	-28.97	0.00	-1,971.91	0.00	1,971.91	3,827.30	1,913.65	7,399.17	3,705.09	10.71	-1.66	0.539
70.00	-23.10	-28.13	0.00	-1,827.06	0.00	1,827.06	3,694.07	1,847.03	6,890.72	3,450.48	12.53	-1.80	0.536
75.00	-21.58	-27.30	0.00	-1,686.42	0.00	1,686.42	3,560.84	1,780.42	6,400.36	3,204.93	14.50	-1.96	0.532
80.00	-20.11	-26.49	0.00	-1,549.90	0.00	1,549.90	3,427.61	1,713.80	5,928.09	2,968.45	16.63	-2.11	0.528
85.00	-18.69	-25.70	0.00	-1,417.44	0.00	1,417.44	3,294.38	1,647.19	5,473.93	2,741.03	18.93	-2.27	0.523
90.00	-17.33	-24.90	0.00	-1,288.96	0.00	1,288.96	3,161.15	1,580.57	5,037.87	2,522.68	21.39	-2.44	0.517
92.26	-16.72	-24.56	0.00	-1,232.76	0.00	1,232.76	3,101.01	1,550.51	4,846.99	2,427.10	22.56	-2.51	0.514
95.00	-15.49	-24.12	0.00	-1,165.37	0.00	1,165.37	3,027.92	1,513.96	4,619.90	2,313.38	24.04	-2.61	0.509
97.76	-14.28	-23.68	0.00	-1,098.88	0.00	1,098.88	2,588.97	1,294.48	3,946.89	1,976.38	25.57	-2.71	0.562
100.00	-13.74	-23.36	0.00	-1,045.77	0.00	1,045.77	2,537.73	1,268.87	3,791.45	1,898.54	26.86	-2.79	0.557
105.00	-12.63	-22.63	0.00	-928.98	0.00	928.98	2,423.53	1,211.77	3,456.24	1,730.69	29.89	-2.98	0.542
110.00	-11.56	-21.93	0.00	-815.82	0.00	815.82	2,309.34	1,154.67	3,136.54	1,570.60	33.12	-3.18	0.525
115.00	-10.53	-21.24	0.00	-706.20	0.00	706.20	2,195.14	1,097.57	2,832.36	1,418.28	36.55	-3.37	0.503
120.00	-9.55	-20.58	0.00	-599.98	0.00	599.98	2,080.94	1,040.47	2,543.69	1,273.74	40.19	-3.57	0.476
125.00	-8.61	-19.95	0.00	-497.07	0.00	497.07	1,966.74	983.37	2,270.53	1,136.95	44.04	-3.77	0.442
130.00	-7.74	-19.32	0.00	-397.34	0.00	397.34	1,852.55	926.27	2,012.89	1,007.94	48.08	-3.95	0.399
130.01	-7.72	-19.33	0.00	-397.22	0.00	397.22	1,852.39	926.20	2,012.56	1,007.77	48.09	-3.95	0.399
134.01	-6.80	-18.83	0.00	-319.89	0.00	319.89	900.10	450.05	956.83	479.13	51.46	-4.10	0.677
135.00	-6.67	-18.72	0.00	-301.19	0.00	301.19	888.76	444.38	932.78	467.08	52.32	-4.13	0.654
137.00	-6.27	-17.01	0.00	-263.74	0.00	263.74	865.92	432.96	885.28	443.30	54.08	-4.26	0.604
140.00	-5.96	-16.70	0.00	-212.70	0.00	212.70	831.66	415.83	816.37	408.79	56.81	-4.44	0.529
145.00	-5.51	-16.19	0.00	-129.17	0.00	129.17	774.56	387.28	707.71	354.38	61.60	-4.68	0.373
147.00	-3.52	-9.55	0.00	-96.80	0.00	96.80	751.72	375.86	666.42	333.70	63.57	-4.75	0.295
150.00	-3.31	-9.26	0.00	-68.16	0.00	68.16	717.46	358.73	606.81	303.86	66.59	-4.85	0.230
155.00	-3.01	-8.80	0.00	-21.85	0.00	21.85	660.36	330.18	513.67	257.22	71.72	-4.94	0.090
157.00	0.00	-8.51	0.00	-4.24	0.00	4.24	637.52	318.76	478.58	239.65	73.79	-4.96	0.018

Pole : CT54XC773
 Location : Hamden, CT
 Height : 157.0 (ft)
 Shape : 18 Sides
 Base Dia : 68.00 (in)
 Top Dia : 18.50 (in)
 Taper : 0.328026 (in/ft)

Code: ANSI/TIA-222 Rev G
 Struct Class : II
 Exposure Category : C
 Topographic Category : 1

Base Elev : 0.000 (ft)

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Load Case: 0.9D + 1.6W

115.00 mph with No Ice (Reduced DL)

22 Iterations

Gust Response Factor : 1.10

Wind Importance Factor : 1.00

Dead Load Factor : 0.90

Wind Load Factor : 1.60

Shaft Segment Forces (Factored)

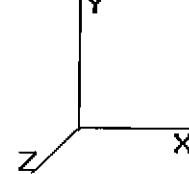
Seg Top Elev (ft)	Description	Kzt	Kz	qz (psf)	qzGh (psf)	C (mph-ft)	Cf	Ice Thick (in)	Tributary (ft)	Aa (sf)	CfAa (sf)	Wind Force X (lb)	Dead Load Ice (lb)	Tot Dead Load (lb)
0.00		1.00	0.85	27.339	30.07	610.07	0.650	0.00	0.00	0.000	0.00	0.0	0.0	0.0
5.00		1.00	0.85	27.339	30.07	595.36	0.650	0.00	5.00	28.423	18.48	889.0	0.0	1,419.1
10.00		1.00	0.85	27.339	30.07	580.64	0.650	0.00	5.00	27.730	18.02	867.3	0.0	1,384.2
15.00		1.00	0.85	27.339	30.07	565.93	0.650	0.00	5.00	27.036	17.57	845.6	0.0	1,349.4
20.00		1.00	0.90	29.008	31.90	567.79	0.650	0.00	5.00	26.342	17.12	874.1	0.0	1,314.5
25.00		1.00	0.94	30.403	33.44	565.76	0.650	0.00	5.00	25.648	16.67	892.0	0.0	1,279.6
30.00		1.00	0.98	31.592	34.75	560.91	0.650	0.00	5.00	24.954	16.22	901.9	0.0	1,244.7
35.00		1.00	1.01	32.634	35.89	554.01	0.650	0.00	5.00	24.260	15.77	905.7	0.0	1,209.9
40.00		1.00	1.04	33.565	36.92	545.54	0.650	0.00	5.00	23.566	15.32	904.9	0.0	1,175.0
45.00		1.00	1.07	34.408	37.84	535.84	0.650	0.00	5.00	22.872	14.87	900.3	0.0	1,140.1
45.34	Bot - Section 2	1.00	1.07	34.462	37.90	535.15	0.650	0.00	0.34	1.515	0.98	59.7	0.0	75.5
50.00		1.00	1.09	35.179	38.69	525.13	0.650	0.00	4.66	21.008	13.66	845.5	0.0	2,076.8
52.67	Top - Section 1	1.00	1.10	35.567	39.12	519.05	0.650	0.00	2.67	11.757	7.64	478.4	0.0	1,161.8
55.00		1.00	1.11	35.892	39.48	522.56	0.650	0.00	2.33	10.098	6.56	414.6	0.0	503.1
60.00		1.00	1.13	36.556	40.21	510.35	0.650	0.00	5.00	21.160	13.75	884.9	0.0	1,054.1
65.00		1.00	1.15	37.177	40.89	497.51	0.650	0.00	5.00	20.467	13.30	870.5	0.0	1,019.2
70.00		1.00	1.17	37.762	41.53	484.11	0.650	0.00	5.00	19.773	12.85	854.2	0.0	984.4
75.00		1.00	1.19	38.314	42.14	470.22	0.650	0.00	5.00	19.079	12.40	836.2	0.0	949.5
80.00		1.00	1.20	38.838	42.72	455.89	0.650	0.00	5.00	18.385	11.95	816.9	0.0	914.6
85.00		1.00	1.22	39.337	43.27	441.15	0.650	0.00	5.00	17.691	11.50	796.1	0.0	879.7
90.00		1.00	1.23	39.813	43.79	426.06	0.650	0.00	5.00	16.997	11.05	774.1	0.0	844.9
92.26	Bot - Section 3	1.00	1.24	40.021	44.02	419.14	0.650	0.00	2.26	7.444	4.84	340.8	0.0	369.9
95.00		1.00	1.25	40.269	44.29	410.63	0.650	0.00	2.74	9.033	5.87	416.1	0.0	825.5
97.76	Top - Section 2	1.00	1.26	40.512	44.56	401.99	0.650	0.00	2.76	8.867	5.76	410.9	0.0	809.8
100.0		1.00	1.26	40.706	44.77	403.11	0.650	0.00	2.24	7.060	4.59	328.8	0.0	301.0
105.0		1.00	1.27	41.127	45.23	387.14	0.650	0.00	5.00	15.232	9.90	716.7	0.0	649.3
110.0		1.00	1.29	41.531	45.68	370.90	0.650	0.00	5.00	14.538	9.45	690.8	0.0	619.4
115.0		1.00	1.30	41.922	46.11	354.42	0.650	0.00	5.00	13.845	9.00	664.0	0.0	589.5
120.0		1.00	1.31	42.299	46.52	337.71	0.650	0.00	5.00	13.151	8.55	636.4	0.0	559.6
125.0		1.00	1.32	42.664	46.93	320.78	0.650	0.00	5.00	12.457	8.10	608.0	0.0	529.7
130.0		1.00	1.33	43.018	47.32	303.65	0.650	0.00	5.00	11.763	7.65	578.9	0.0	499.9
130.0	Bot - Section 4	1.00	1.33	43.018	47.32	303.63	0.650	0.00	0.01	0.015	0.01	0.7	0.0	0.6
134.0	Top - Section 3	1.00	1.34	43.294	47.62	289.78	0.650	0.00	4.00	9.037	5.87	447.6	0.0	571.6
135.0		1.00	1.34	43.361	47.69	290.56	0.650	0.00	0.99	2.175	1.41	107.9	0.0	46.5
137.0	Appertunance(s)	1.00	1.35	43.496	47.84	283.59	0.650	0.00	2.00	4.297	2.79	213.8	0.0	91.9
140.0		1.00	1.35	43.694	48.06	273.08	0.650	0.00	3.00	6.237	4.05	311.8	0.0	133.3
145.0		1.00	1.36	44.018	48.42	255.41	0.650	0.00	5.00	9.840	6.40	495.5	0.0	210.2
147.0	Appertunance(s)	1.00	1.37	44.146	48.56	248.30	0.650	0.00	2.00	3.742	2.43	189.0	0.0	79.9
150.0		1.00	1.37	44.334	48.76	237.59	0.650	0.00	3.00	5.404	3.51	274.1	0.0	115.4
155.0		1.00	1.38	44.641	49.10	219.61	0.650	0.00	5.00	8.452	5.49	431.6	0.0	180.3
157.0	Appertunance(s)	1.00	1.39	44.761	49.23	212.37	0.650	0.00	2.00	3.186	2.07	163.2	0.0	67.9
Totals:									157.00			23,638.2	0.0	29,231.7

Pole : CT54XC773
 Location : Hamden, CT
 Height : 157.0 (ft)
 Shape : 18 Sides
 Base Dia : 68.00 (in)
 Top Dia : 18.50 (in)
 Taper : 0.328026 (in/ft)

Code: ANSI/TIA-222 Rev G
 Struct Class : II
 Exposure Category : C
 Topographic Category : 1

Base Elev : 0.000 (ft)

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Load Case: 0.9D + 1.6W

115.00 mph with No Ice (Reduced DL)

22 Iterations

Gust Response Factor : 1.10

Wind Importance Factor : 1.00

Dead Load Factor : 0.90

Wind Load Factor : 1.60

Discrete Appurtenance Segment Forces (Factored)

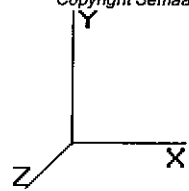
Elev (ft)	Description	Qty	qz (psf)	qzGh (psf)	CaAa Factor	Ka	Total CaAa (sf)	Horiz Ecc (ft)	Vert Ecc (ft)	Wind FX (lb)	Mom Y (lb-ft)	Mom Z (lb-ft)	Dead Load (lb)
137.0	Pipe Mount	3	43.496	47.845	1.00	1.00	10.50	0.000	0.000	803.80	0.00	0.00	143.96
137.0	742 213	3	43.496	47.845	0.58	0.80	8.87	0.000	0.000	678.87	0.00	0.00	59.53
147.0	MGD3-800Tx	3	44.146	48.560	0.62	0.80	6.27	0.000	0.000	487.39	0.00	0.00	41.66
147.0	P65-16-XL-2	2	44.146	48.560	1.00	1.00	16.80	0.000	0.000	1,305.30	0.00	0.00	79.20
147.0	Low Profile Platform	1	44.146	48.560	1.00	1.00	25.55	0.000	0.000	1,985.14	0.00	0.00	1,440.00
147.0	TMA's	6	44.146	48.560	0.54	0.80	3.09	0.000	0.000	239.88	0.00	0.00	94.50
147.0	LNx-6514DS-T4M	1	44.146	48.560	1.00	1.00	8.41	0.000	0.000	653.42	0.00	0.00	33.75
147.0	LPA-80080/4CF	6	44.146	48.560	0.57	0.80	20.64	0.000	0.000	1,603.82	0.00	0.00	64.80
157.0	DB848H90E-M	9	44.761	49.238	0.73	0.80	54.77	0.000	0.000	4,315.11	0.00	0.00	226.80
157.0	VHLP2-18-1WH	2	44.761	49.238	0.75	1.00	5.94	0.000	0.000	467.95	0.00	0.00	162.00
157.0	Platform w/Rail	1	44.851	49.336	1.00	1.00	35.85	0.000	1.500	2,829.93	0.00	4,244.89	2,250.00
157.0	DTMA-BRS160	3	44.761	49.238	0.70	0.80	1.40	0.000	0.000	110.48	0.00	0.00	29.70
157.0	XP4-65-R	3	44.761	49.238	0.76	0.80	7.94	0.000	0.000	625.25	0.00	0.00	54.00
										16,106.35			4,679.91

Pole : CT54XC773
 Location : Hamden, CT
 Height : 157.0 (ft)
 Shape : 18 Sides
 Base Dia : 68.00 (in)
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Code: ANSI/TIA-222 Rev G
 Struct Class : II
 Exposure Category : C
 Topographic Category : 1

Base Elev : 0.000 (ft)

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Load Case: 0.9D + 1.6W

115.00 mph with No Ice (Reduced DL)

22 Iterations

Gust Response Factor : 1.10
 Dead Load Factor : 0.90
 Wind Load Factor : 1.60

Wind Importance Factor : 1.00

Applied Segment Forces Summary

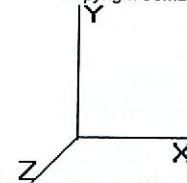
Seg Elev (ft)	Lateral FX (-) (lb)	Axial FY (-) (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)
0.00	0.00	0.00	0.00	0.00
5.00	888.96	1,574.98	0.00	0.00
10.00	867.25	1,540.11	0.00	0.00
15.00	845.55	1,505.23	0.00	0.00
20.00	874.14	1,470.36	0.00	0.00
25.00	892.05	1,435.49	0.00	0.00
30.00	901.87	1,400.61	0.00	0.00
35.00	905.71	1,365.74	0.00	0.00
40.00	904.89	1,330.87	0.00	0.00
45.00	900.30	1,295.99	0.00	0.00
45.34	59.73	86.01	0.00	0.00
50.00	845.48	2,222.20	0.00	0.00
52.67	478.36	1,245.01	0.00	0.00
55.00	414.62	575.76	0.00	0.00
60.00	884.93	1,209.98	0.00	0.00
65.00	870.45	1,175.10	0.00	0.00
70.00	854.16	1,140.23	0.00	0.00
75.00	836.24	1,105.36	0.00	0.00
80.00	816.85	1,070.48	0.00	0.00
85.00	796.12	1,035.61	0.00	0.00
90.00	774.15	1,000.74	0.00	0.00
92.26	340.82	440.24	0.00	0.00
95.00	416.14	910.98	0.00	0.00
97.76	410.93	895.76	0.00	0.00
100.0	328.76	370.97	0.00	0.00
105.0	716.67	805.17	0.00	0.00
110.0	690.75	775.28	0.00	0.00
115.0	663.97	745.39	0.00	0.00
120.0	636.36	715.50	0.00	0.00
125.0	607.99	685.61	0.00	0.00
130.0	578.88	655.72	0.00	0.00
130.0	0.75	0.85	0.00	0.00
134.0	447.57	696.29	0.00	0.00
135.0	107.91	77.48	0.00	0.00
137.0	1,696.47	357.70	0.00	0.00
140.0	311.76	209.98	0.00	0.00
145.0	495.50	338.00	0.00	0.00
147.0	6,463.91	1,884.93	0.00	0.00
150.0	274.09	158.35	0.00	0.00
155.0	431.62	251.96	0.00	0.00
157.0	8,511.89	2,819.10	0.00	4,244.89
Totals:	39,744.53	38,581.11	0.00	4,244.89

Pole : CT54XC773
 Location : Hamden, CT
 Height : 157.0 (ft)
 Shape : 18 Sides
 Base Dia : 68.00 (in)
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Load Case: 0.9D + 1.6W

115.00 mph with No Ice (Reduced DL)

22 Iterations

Gust Response Factor : 1.10

Wind Importance Factor : 1.00

Dead Load Factor : 0.90

Wind Load Factor : 1.60

Calculated Forces

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-38.54	-39.78	0.00	-4,216.07	0.00	4,216.07	5,382.06	2,691.03	14,961.9	7,492.11	0.00	0.00	0.570
5.00	-36.89	-38.96	0.00	-4,017.16	0.00	4,017.16	5,309.05	2,654.53	14,398.4	7,209.92	0.06	-0.11	0.564
10.00	-35.28	-38.16	0.00	-3,822.36	0.00	3,822.36	5,221.75	2,610.88	13,807.0	6,913.77	0.23	-0.22	0.560
15.00	-33.70	-37.37	0.00	-3,631.56	0.00	3,631.56	5,088.52	2,544.26	13,109.1	6,564.31	0.52	-0.33	0.560
20.00	-32.17	-36.56	0.00	-3,444.69	0.00	3,444.69	4,955.29	2,477.65	12,429.3	6,223.90	0.94	-0.45	0.560
25.00	-30.66	-35.72	0.00	-3,261.91	0.00	3,261.91	4,822.06	2,411.03	11,767.6	5,892.57	1.47	-0.57	0.560
30.00	-29.20	-34.86	0.00	-3,083.32	0.00	3,083.32	4,688.83	2,344.42	11,124.0	5,570.29	2.13	-0.69	0.560
35.00	-27.77	-34.00	0.00	-2,909.01	0.00	2,909.01	4,555.60	2,277.80	10,498.5	5,257.08	2.93	-0.82	0.560
40.00	-26.37	-33.14	0.00	-2,739.00	0.00	2,739.00	4,422.37	2,211.19	9,891.16	4,952.93	3.86	-0.95	0.559
45.00	-25.05	-32.25	0.00	-2,573.32	0.00	2,573.32	4,289.14	2,144.57	9,301.86	4,657.84	4.92	-1.08	0.559
45.34	-24.93	-32.21	0.00	-2,562.46	0.00	2,562.46	4,280.17	2,140.08	9,262.83	4,638.30	5.00	-1.09	0.559
50.00	-22.67	-31.36	0.00	-2,412.24	0.00	2,412.24	4,155.91	2,077.95	8,730.66	4,371.82	6.13	-1.22	0.557
52.67	-21.40	-30.89	0.00	-2,328.50	0.00	2,328.50	4,155.84	2,077.92	8,730.38	4,371.68	6.83	-1.30	0.538
55.00	-20.77	-30.50	0.00	-2,256.53	0.00	2,256.53	4,093.76	2,046.88	8,470.39	4,241.49	7.49	-1.36	0.537
60.00	-19.51	-29.63	0.00	-2,104.06	0.00	2,104.06	3,960.53	1,980.26	7,925.73	3,968.76	8.99	-1.50	0.535
65.00	-18.29	-28.77	0.00	-1,955.92	0.00	1,955.92	3,827.30	1,913.65	7,399.17	3,705.09	10.64	-1.65	0.533
70.00	-17.11	-27.93	0.00	-1,812.06	0.00	1,812.06	3,694.07	1,847.03	6,890.72	3,450.48	12.44	-1.79	0.530
75.00	-15.96	-27.10	0.00	-1,672.42	0.00	1,672.42	3,560.84	1,780.42	6,400.36	3,204.93	14.40	-1.94	0.527
80.00	-14.84	-26.29	0.00	-1,536.92	0.00	1,536.92	3,427.61	1,713.80	5,928.09	2,968.45	16.51	-2.10	0.522
85.00	-13.77	-25.49	0.00	-1,405.49	0.00	1,405.49	3,294.38	1,647.19	5,473.93	2,741.03	18.80	-2.25	0.517
90.00	-12.75	-24.70	0.00	-1,278.05	0.00	1,278.05	3,161.15	1,580.57	5,037.87	2,522.68	21.24	-2.42	0.511
92.26	-12.29	-24.36	0.00	-1,222.30	0.00	1,222.30	3,101.01	1,550.51	4,846.99	2,427.10	22.41	-2.50	0.508
95.00	-11.35	-23.92	0.00	-1,155.47	0.00	1,155.47	3,027.92	1,513.96	4,619.90	2,313.38	23.87	-2.59	0.503
97.76	-10.44	-23.49	0.00	-1,089.52	0.00	1,089.52	2,588.97	1,294.48	3,946.89	1,976.38	25.39	-2.69	0.556
100.00	-10.03	-23.17	0.00	-1,036.83	0.00	1,036.83	2,537.73	1,268.87	3,791.45	1,898.54	26.67	-2.77	0.550
105.00	-9.19	-22.44	0.00	-921.00	0.00	921.00	2,423.53	1,211.77	3,456.24	1,730.69	29.68	-2.96	0.536
110.00	-8.38	-21.74	0.00	-808.79	0.00	808.79	2,309.34	1,154.67	3,136.54	1,570.60	32.88	-3.15	0.519
115.00	-7.60	-21.06	0.00	-700.10	0.00	700.10	2,195.14	1,097.57	2,832.36	1,418.28	36.29	-3.35	0.497
120.00	-6.85	-20.41	0.00	-594.80	0.00	594.80	2,080.94	1,040.47	2,543.69	1,273.74	39.90	-3.54	0.471
125.00	-6.14	-19.78	0.00	-492.78	0.00	492.78	1,966.74	983.37	2,270.53	1,136.95	43.71	-3.74	0.437
130.00	-5.50	-19.16	0.00	-393.90	0.00	393.90	1,852.55	926.27	2,012.89	1,007.94	47.73	-3.92	0.394
130.01	-5.47	-19.17	0.00	-393.77	0.00	393.77	1,852.39	926.20	2,012.56	1,007.77	47.73	-3.92	0.394
134.01	-4.78	-18.68	0.00	-317.10	0.00	317.10	900.10	450.05	956.83	479.13	51.08	-4.07	0.669
135.00	-4.68	-18.57	0.00	-298.54	0.00	298.54	888.76	444.38	932.78	467.08	51.93	-4.10	0.646
137.00	-4.40	-16.87	0.00	-261.39	0.00	261.39	865.92	432.96	885.28	443.30	53.67	-4.23	0.596
140.00	-4.16	-16.56	0.00	-210.79	0.00	210.79	831.66	415.83	816.37	408.79	56.39	-4.40	0.522
145.00	-3.82	-16.05	0.00	-128.00	0.00	128.00	774.56	387.28	707.71	354.38	61.13	-4.64	0.368
147.00	-2.45	-9.45	0.00	-95.91	0.00	95.91	751.72	375.86	666.42	333.70	63.09	-4.72	0.291
150.00	-2.30	-9.17	0.00	-67.55	0.00	67.55	717.46	358.73	606.81	303.86	66.08	-4.81	0.226
155.00	-2.08	-8.72	0.00	-21.69	0.00	21.69	660.36	330.18	513.67	257.22	71.17	-4.90	0.088
157.00	0.00	-8.51	0.00	-4.24	0.00	4.24	637.52	318.76	478.58	239.65	73.23	-4.92	0.018

Pole : CT54XC773
 Location : Hamden, CT
 Height : 157.0 (ft)
 Shape : 18 Sides
 Base Dia : 68.00 (in)
 Top Dia : 18.50 (in)
 Taper : 0.328026 (in/ft)

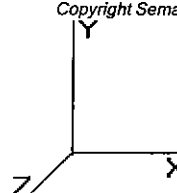
Code: ANSI/TIA-222 Rev G
 Struct Class : II
 Exposure Category : C
 Topographic Category : 1

Base Elev : 0.000 (ft)

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Load Case: 1.2D + 1.0Di + 1.0Wi 50.00 mph with 1.25 in Radial Ice

21 Iterations

Gust Response Factor : 1.10

Ice Dead Load Factor : 1.00

Wind Importance Factor : 1.00

Dead Load Factor : 1.20

Ice Importance Factor : 1.00

Wind Load Factor : 1.00

Shaft Segment Forces (Factored)

Seg Top Elev (ft)	Description	Kzt	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		1.00	0.85	5.168	5.685	0.000	1.200	0.00	0.00	0.000	0.00	0.0	0.0	0.0
5.00		1.00	0.85	5.168	5.685	0.000	1.200	2.07	5.00	30.149	36.18	205.7	887.3	2,779.4
10.00		1.00	0.85	5.168	5.685	0.000	1.200	2.21	5.00	29.578	35.49	201.8	930.2	2,775.9
15.00		1.00	0.85	5.168	5.685	0.000	1.200	2.31	5.00	28.961	34.75	197.6	946.3	2,745.4
20.00		1.00	0.90	5.483	6.032	0.000	1.200	2.37	5.00	28.323	33.99	205.0	950.4	2,703.1
25.00		1.00	0.94	5.747	6.322	0.000	1.200	2.43	5.00	27.674	33.21	209.9	947.7	2,653.9
30.00		1.00	0.98	5.972	6.569	0.000	1.200	2.47	5.00	27.017	32.42	213.0	940.4	2,600.0
35.00		1.00	1.01	6.169	6.786	0.000	1.200	2.51	5.00	26.356	31.63	214.6	929.7	2,542.9
40.00		1.00	1.04	6.345	6.979	0.000	1.200	2.54	5.00	25.690	30.83	215.2	916.6	2,483.2
45.00		1.00	1.07	6.504	7.155	0.000	1.200	2.57	5.00	25.021	30.03	214.8	901.4	2,421.6
45.34	Bot - Section 2	1.00	1.07	6.514	7.166	0.000	1.200	2.58	0.34	1.660	1.99	14.3	60.6	161.3
50.00		1.00	1.09	6.650	7.315	0.000	1.200	2.60	4.66	23.034	27.64	202.2	838.4	3,607.5
52.67	Top - Section 1	1.00	1.10	6.723	7.396	0.000	1.200	2.62	2.67	12.922	15.51	114.7	474.9	2,024.0
55.00		1.00	1.11	6.785	7.463	0.000	1.200	2.63	2.33	11.120	13.34	99.6	410.5	1,081.3
60.00		1.00	1.13	6.910	7.601	0.000	1.200	2.65	5.00	23.372	28.05	213.2	861.6	2,267.1
65.00		1.00	1.15	7.028	7.731	0.000	1.200	2.67	5.00	22.696	27.24	210.5	841.4	2,200.4
70.00		1.00	1.17	7.138	7.852	0.000	1.200	2.69	5.00	22.019	26.42	207.5	820.3	2,132.8
75.00		1.00	1.19	7.243	7.967	0.000	1.200	2.71	5.00	21.340	25.61	204.0	798.4	2,064.4
80.00		1.00	1.20	7.342	8.076	0.000	1.200	2.73	5.00	20.661	24.79	200.2	775.8	1,995.3
85.00		1.00	1.22	7.436	8.180	0.000	1.200	2.74	5.00	19.981	23.98	196.1	752.6	1,925.6
90.00		1.00	1.23	7.526	8.279	0.000	1.200	2.76	5.00	19.300	23.16	191.7	728.7	1,855.2
92.26	Bot - Section 3	1.00	1.24	7.565	8.322	0.000	1.200	2.77	2.26	8.486	10.18	84.7	324.0	817.2
95.00		1.00	1.25	7.612	8.374	0.000	1.200	2.77	2.74	10.304	12.36	103.5	393.6	1,494.3
97.76	Top - Section 2	1.00	1.26	7.658	8.424	0.000	1.200	2.78	2.76	10.147	12.18	102.6	388.0	1,467.8
100.0		1.00	1.26	7.695	8.464	0.000	1.200	2.79	2.24	8.104	9.72	82.3	310.8	712.2
105.0		1.00	1.27	7.774	8.552	0.000	1.200	2.80	5.00	17.571	21.09	180.3	667.4	1,533.2
110.0		1.00	1.29	7.851	8.636	0.000	1.200	2.82	5.00	16.888	20.27	175.0	641.8	1,467.7
115.0		1.00	1.30	7.925	8.717	0.000	1.200	2.83	5.00	16.205	19.45	169.5	615.8	1,401.8
120.0		1.00	1.31	7.996	8.796	0.000	1.200	2.84	5.00	15.521	18.63	163.8	589.4	1,335.6
125.0		1.00	1.32	8.065	8.872	0.000	1.200	2.85	5.00	14.837	17.80	158.0	562.6	1,269.0
130.0		1.00	1.33	8.132	8.945	0.000	1.200	2.86	5.00	14.152	16.98	151.9	535.6	1,202.0
130.0	Bot - Section 4	1.00	1.33	8.132	8.945	0.000	1.200	2.86	0.01	0.018	0.02	0.2	0.7	1.6
134.0	Top - Section 3	1.00	1.34	8.184	9.002	0.000	1.200	2.87	4.00	10.954	13.14	118.3	416.3	1,178.5
135.0		1.00	1.34	8.197	9.016	0.000	1.200	2.87	0.99	2.652	3.18	28.7	102.3	164.3
137.0	Appertunance(s)	1.00	1.35	8.222	9.044	0.000	1.200	2.88	2.00	5.258	6.31	57.1	201.6	324.1
140.0		1.00	1.35	8.260	9.086	0.000	1.200	2.88	3.00	7.681	9.22	83.7	292.4	470.1
145.0		1.00	1.36	8.321	9.153	0.000	1.200	2.89	5.00	12.255	14.71	134.6	459.4	739.7
147.0	Appertunance(s)	1.00	1.37	8.345	9.180	0.000	1.200	2.90	2.00	4.709	5.65	51.9	179.3	285.8
150.0		1.00	1.37	8.381	9.219	0.000	1.200	2.90	3.00	6.858	8.23	75.9	258.8	412.6
155.0		1.00	1.38	8.439	9.283	0.000	1.200	2.91	5.00	10.884	13.06	121.2	402.9	643.3
157.0	Appertunance(s)	1.00	1.39	8.462	9.308	0.000	1.200	2.92	2.00	4.160	4.99	46.5	156.6	247.2
Totals:								157.00				5,821.4	23,212.5	62,188.1

Pole : CT54XC773
 Location : Hamden, CT
 Height : 157.0 (ft)
 Shape : 18 Sides
 Base Dia : 68.00 (in)
 Top Dia : 18.50 (in)
 Taper : 0.328026 (in/ft)

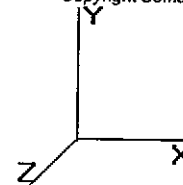
Code: ANSI/TIA-222 Rev G
 Struct Class : II
 Exposure Category : C
 Topographic Category : 1

Base Elev : 0.000 (ft)

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Load Case: 1.2D + 1.0Di + 1.0Wi 50.00 mph with 1.25 in Radial Ice

21 Iterations

Gust Response Factor : 1.10

Ice Dead Load Factor : 1.00

Wind Importance Factor : 1.00

Dead Load Factor : 1.20

Ice Importance Factor : 1.00

Wind Load Factor : 1.00

Discrete Appurtenance Segment Forces (Factored)

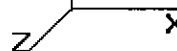
Elev (ft)	Description	Qty	qz (psf)	qzGh (psf)	CaAa Factor	Ka	Total CaAa (sf)	Horiz Ecc (ft)	Vert Ecc (ft)	Wind FX (lb)	Mom Y (lb-ft)	Mom Z (lb-ft)	Dead Load (lb)
137.0	Pipe Mount	3	8.222	9.044	1.00	1.00	50.10	0.000	0.000	453.17	0.00	0.00	630.51
137.0	742 213	3	8.222	9.044	0.58	0.80	12.69	0.000	0.000	114.80	0.00	0.00	760.66
147.0	MGD3-800Tx	3	8.345	9.180	0.62	0.80	9.35	0.000	0.000	85.84	0.00	0.00	587.03
147.0	P65-16-XL-2	2	8.345	9.180	1.00	1.00	20.77	0.000	0.000	190.63	0.00	0.00	795.87
147.0	Low Profile Platform	1	8.345	9.180	1.00	1.00	35.83	0.000	0.000	328.87	0.00	0.00	4,322.82
147.0	TMA's	6	8.345	9.180	0.54	0.80	7.01	0.000	0.000	64.33	0.00	0.00	293.53
147.0	LNx-6514DS-T4M	1	8.345	9.180	1.00	1.00	10.44	0.000	0.000	95.81	0.00	0.00	427.38
147.0	LPA-80080/4CF	6	8.345	9.180	0.57	0.80	24.29	0.000	0.000	222.96	0.00	0.00	1,633.58
157.0	DB848H90E-M	9	8.462	9.308	0.73	0.80	64.78	0.000	0.000	602.95	0.00	0.00	3,922.59
157.0	VHLP2-18-1WH	2	8.462	9.308	0.75	1.00	8.92	0.000	0.000	83.03	0.00	0.00	584.14
157.0	Platform w/Rail	1	8.478	9.326	1.00	1.00	62.79	0.000	1.500	585.61	0.00	878.41	7,843.98
157.0	DTMA-BRS160	3	8.462	9.308	0.70	0.80	3.76	0.000	0.000	35.01	0.00	0.00	116.47
157.0	XP4-65-R	3	8.462	9.308	0.76	0.80	11.36	0.000	0.000	105.73	0.00	0.00	712.26
										2,968.74			22,630.83

Pole : CT54XC773
 Location : Hamden, CT
 Height : 157.0 (ft)
 Shape : 18 Sides
 Base Dia : 68.00 (in)
 Top Dia : 18.50 (in)
 Taper : 0.328026 (in/ft)

Code: ANSI/TIA-222 Rev G
 Struct Class : II
 Exposure Category : C
 Topographic Category : 1

Base Elev : 0.000 (ft)

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Load Case: 1.2D + 1.0Di + 1.0Wi 50.00 mph with 1.25 in Radial Ice

21 Iterations

Gust Response Factor : 1.10
 Dead Load Factor : 1.20
 Wind Load Factor : 1.00

Ice Dead Load Factor : 1.00

Wind Importance Factor : 1.00
 Ice Importance Factor : 1.00

Applied Segment Forces Summary

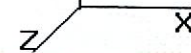
Seg Elev (ft)	Lateral FX (-) (lb)	Axial FY (-) (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)
0.00	0.00	0.00	0.00	0.00
5.00	205.67	2,987.27	0.00	0.00
10.00	201.78	2,983.68	0.00	0.00
15.00	197.56	2,953.24	0.00	0.00
20.00	205.01	2,910.91	0.00	0.00
25.00	209.94	2,861.67	0.00	0.00
30.00	212.98	2,807.84	0.00	0.00
35.00	214.62	2,750.70	0.00	0.00
40.00	215.16	2,691.04	0.00	0.00
45.00	214.82	2,629.38	0.00	0.00
45.34	14.27	175.30	0.00	0.00
50.00	202.20	3,801.29	0.00	0.00
52.67	114.68	2,134.96	0.00	0.00
55.00	99.59	1,178.16	0.00	0.00
60.00	213.19	2,474.95	0.00	0.00
65.00	210.54	2,408.23	0.00	0.00
70.00	207.47	2,340.62	0.00	0.00
75.00	204.02	2,272.22	0.00	0.00
80.00	200.23	2,203.11	0.00	0.00
85.00	196.13	2,133.37	0.00	0.00
90.00	191.74	2,063.05	0.00	0.00
92.26	84.75	910.96	0.00	0.00
95.00	103.53	1,608.28	0.00	0.00
97.76	102.57	1,582.40	0.00	0.00
100.0	82.32	805.40	0.00	0.00
105.0	180.32	1,741.01	0.00	0.00
110.0	175.02	1,675.51	0.00	0.00
115.0	169.51	1,609.62	0.00	0.00
120.0	163.82	1,543.37	0.00	0.00
125.0	157.95	1,476.78	0.00	0.00
130.0	151.91	1,409.86	0.00	0.00
130.0	0.20	1.85	0.00	0.00
134.0	118.34	1,344.72	0.00	0.00
135.0	28.69	205.61	0.00	0.00
137.0	625.03	1,798.36	0.00	0.00
140.0	83.75	572.37	0.00	0.00
145.0	134.61	910.11	0.00	0.00
147.0	1,040.31	8,414.18	0.00	0.00
150.0	75.87	469.90	0.00	0.00
155.0	121.23	738.82	0.00	0.00
157.0	1,458.79	13,464.82	0.00	878.41
Totals:	8,790.15	91,044.91	0.00	878.41

Pole : CT54XC773
 Location : Hamden, CT
 Height : 157.0 (ft)
 Shape : 18 Sides
 Base Dia : 68.00 (in)
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Load Case: 1.2D + 1.0Di + 1.0Wi	50.00 mph with 1.25 in Radial Ice	21 Iterations
Gust Response Factor : 1.10	Ice Dead Load Factor : 1.00	Wind Importance Factor : 1.00
Dead Load Factor : 1.20		Ice Importance Factor : 1.00
Wind Load Factor : 1.00		

Calculated Forces

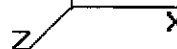
Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-91.04	-8.81	0.00	-926.45	0.00	926.45	5,382.06	2,691.03	14,961.9	7,492.11	0.00	0.00	0.141
5.00	-88.05	-8.64	0.00	-882.41	0.00	882.41	5,309.05	2,654.53	14,398.4	7,209.92	0.01	-0.02	0.139
10.00	-85.06	-8.47	0.00	-839.21	0.00	839.21	5,221.75	2,610.88	13,807.0	6,913.77	0.05	-0.05	0.138
15.00	-82.11	-8.31	0.00	-796.85	0.00	796.85	5,088.52	2,544.26	13,109.1	6,564.31	0.12	-0.07	0.138
20.00	-79.19	-8.13	0.00	-755.31	0.00	755.31	4,955.29	2,477.65	12,429.3	6,223.90	0.21	-0.10	0.137
25.00	-76.33	-7.95	0.00	-714.63	0.00	714.63	4,822.06	2,411.03	11,767.6	5,892.57	0.32	-0.12	0.137
30.00	-73.52	-7.77	0.00	-674.86	0.00	674.86	4,688.83	2,344.42	11,124.0	5,570.29	0.47	-0.15	0.137
35.00	-70.76	-7.58	0.00	-636.01	0.00	636.01	4,555.60	2,277.80	10,498.5	5,257.08	0.64	-0.18	0.137
40.00	-68.07	-7.39	0.00	-598.11	0.00	598.11	4,422.37	2,211.19	9,891.16	4,952.93	0.85	-0.21	0.136
45.00	-65.44	-7.18	0.00	-561.15	0.00	561.15	4,289.14	2,144.57	9,301.86	4,657.84	1.08	-0.24	0.136
45.34	-65.26	-7.19	0.00	-558.73	0.00	558.73	4,280.17	2,140.08	9,262.83	4,638.30	1.10	-0.24	0.136
50.00	-61.46	-6.99	0.00	-525.22	0.00	525.22	4,155.91	2,077.95	8,730.66	4,371.82	1.34	-0.27	0.135
52.67	-59.32	-6.88	0.00	-506.55	0.00	506.55	4,155.84	2,077.92	8,730.38	4,371.68	1.50	-0.28	0.130
55.00	-58.14	-6.80	0.00	-490.51	0.00	490.51	4,093.76	2,046.88	8,470.39	4,241.49	1.64	-0.30	0.130
60.00	-55.67	-6.60	0.00	-456.51	0.00	456.51	3,960.53	1,980.26	7,925.73	3,968.76	1.97	-0.33	0.129
65.00	-53.26	-6.41	0.00	-423.50	0.00	423.50	3,827.30	1,913.65	7,399.17	3,705.09	2.33	-0.36	0.128
70.00	-50.91	-6.21	0.00	-391.46	0.00	391.46	3,694.07	1,847.03	6,890.72	3,450.48	2.72	-0.39	0.127
75.00	-48.64	-6.02	0.00	-360.40	0.00	360.40	3,560.84	1,780.42	6,400.36	3,204.93	3.15	-0.42	0.126
80.00	-46.43	-5.83	0.00	-330.30	0.00	330.30	3,427.61	1,713.80	5,928.09	2,968.45	3.61	-0.46	0.125
85.00	-44.30	-5.64	0.00	-301.15	0.00	301.15	3,294.38	1,647.19	5,473.93	2,741.03	4.11	-0.49	0.123
90.00	-42.23	-5.45	0.00	-272.93	0.00	272.93	3,161.15	1,580.57	5,037.87	2,522.68	4.64	-0.53	0.122
92.26	-41.32	-5.37	0.00	-260.63	0.00	260.63	3,101.01	1,550.51	4,846.99	2,427.10	4.89	-0.54	0.121
95.00	-39.71	-5.27	0.00	-245.89	0.00	245.89	3,027.92	1,513.96	4,619.90	2,313.38	5.21	-0.56	0.119
97.76	-38.13	-5.16	0.00	-231.37	0.00	231.37	2,588.97	1,294.48	3,946.89	1,976.38	5.54	-0.58	0.132
100.00	-37.32	-5.09	0.00	-219.79	0.00	219.79	2,537.73	1,268.87	3,791.45	1,898.54	5.82	-0.60	0.130
105.00	-35.58	-4.92	0.00	-194.35	0.00	194.35	2,423.53	1,211.77	3,456.24	1,730.69	6.47	-0.64	0.127
110.00	-33.90	-4.75	0.00	-169.77	0.00	169.77	2,309.34	1,154.67	3,136.54	1,570.60	7.16	-0.68	0.123
115.00	-32.29	-4.58	0.00	-146.04	0.00	146.04	2,195.14	1,097.57	2,832.36	1,418.28	7.90	-0.72	0.118
120.00	-30.75	-4.42	0.00	-123.14	0.00	123.14	2,080.94	1,040.47	2,543.69	1,273.74	8.68	-0.76	0.111
125.00	-29.27	-4.26	0.00	-101.05	0.00	101.05	1,966.74	983.37	2,270.53	1,136.95	9.50	-0.80	0.104
130.00	-27.86	-4.10	0.00	-79.76	0.00	79.76	1,852.55	926.27	2,012.89	1,007.94	10.36	-0.84	0.094
130.01	-27.86	-4.10	0.00	-79.73	0.00	79.73	1,852.39	926.20	2,012.56	1,007.77	10.36	-0.84	0.094
134.01	-26.52	-3.97	0.00	-63.32	0.00	63.32	900.10	450.05	956.83	479.13	11.08	-0.87	0.162
135.00	-26.31	-3.95	0.00	-59.37	0.00	59.37	888.76	444.38	932.78	467.08	11.26	-0.88	0.157
137.00	-24.52	-3.31	0.00	-51.48	0.00	51.48	865.92	432.96	885.28	443.30	11.64	-0.90	0.144
140.00	-23.95	-3.23	0.00	-41.55	0.00	41.55	831.66	415.83	816.37	408.79	12.21	-0.94	0.130
145.00	-23.04	-3.10	0.00	-25.39	0.00	25.39	774.56	387.28	707.71	354.38	13.22	-0.98	0.101
147.00	-14.64	-1.91	0.00	-19.20	0.00	19.20	751.72	375.86	666.42	333.70	13.64	-1.00	0.077
150.00	-14.17	-1.83	0.00	-13.46	0.00	13.46	717.46	358.73	606.81	303.86	14.27	-1.02	0.064
155.00	-13.44	-1.70	0.00	-4.28	0.00	4.28	660.36	330.18	513.67	257.22	15.35	-1.04	0.037
157.00	0.00	-1.46	0.00	-0.88	0.00	0.88	637.52	318.76	478.58	239.65	15.78	-1.04	0.004

Pole : CT54XC773
 Location : Hamden, CT
 Height : 157.0 (ft)
 Shape : 18 Sides
 Base Dia : 68.00 (in)
 Top Dia : 18.50 (in)
 Taper : 0.328026 (in/ft)

Code: ANSI/TIA-222 Rev G
 Struct Class : II
 Exposure Category : C
 Topographic Category : 1

Base Elev : 0.000 (ft)

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Load Case: 1.0D + 1.0W

60.00 mph Serviceability

20 Iterations

Gust Response Factor : 1.10

Wind Importance Factor : 1.00

Dead Load Factor : 1.00

Wind Load Factor : 1.00

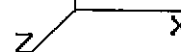
Shaft Segment Forces (Factored)

Seg Top Elev (ft)	Description	Kzt	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		1.00	0.85	7.442	8.186	318.30	0.650	0.00	0.00	0.000	0.00	0.0	0.0	0.0
5.00		1.00	0.85	7.442	8.186	310.62	0.650	0.00	5.00	28.423	18.48	151.2	0.0	1,576.8
10.00		1.00	0.85	7.442	8.186	302.94	0.650	0.00	5.00	27.730	18.02	147.5	0.0	1,538.0
15.00		1.00	0.85	7.442	8.186	295.26	0.650	0.00	5.00	27.036	17.57	143.9	0.0	1,499.3
20.00		1.00	0.90	7.896	8.686	296.23	0.650	0.00	5.00	26.342	17.12	148.7	0.0	1,460.5
25.00		1.00	0.94	8.276	9.104	295.18	0.650	0.00	5.00	25.648	16.67	151.8	0.0	1,421.8
30.00		1.00	0.98	8.600	9.460	292.65	0.650	0.00	5.00	24.954	16.22	153.4	0.0	1,383.1
35.00		1.00	1.01	8.883	9.772	289.05	0.650	0.00	5.00	24.260	15.77	154.1	0.0	1,344.3
40.00		1.00	1.04	9.137	10.05	284.63	0.650	0.00	5.00	23.566	15.32	154.0	0.0	1,305.6
45.00		1.00	1.07	9.366	10.30	279.57	0.650	0.00	5.00	22.872	14.87	153.2	0.0	1,266.8
45.34	Bot - Section 2	1.00	1.07	9.381	10.31	279.21	0.650	0.00	0.34	1.515	0.98	10.2	0.0	83.9
50.00		1.00	1.09	9.576	10.53	273.98	0.650	0.00	4.66	21.008	13.66	143.8	0.0	2,307.6
52.67	Top - Section 1	1.00	1.10	9.682	10.65	270.81	0.650	0.00	2.67	11.757	7.64	81.4	0.0	1,290.9
55.00		1.00	1.11	9.770	10.74	272.64	0.650	0.00	2.33	10.098	6.56	70.5	0.0	559.0
60.00		1.00	1.13	9.951	10.94	266.27	0.650	0.00	5.00	21.160	13.75	150.6	0.0	1,171.2
65.00		1.00	1.15	10.120	11.13	259.57	0.650	0.00	5.00	20.467	13.30	148.1	0.0	1,132.5
70.00		1.00	1.17	10.279	11.30	252.58	0.650	0.00	5.00	19.773	12.85	145.3	0.0	1,093.7
75.00		1.00	1.19	10.430	11.47	245.33	0.650	0.00	5.00	19.079	12.40	142.3	0.0	1,055.0
80.00		1.00	1.20	10.572	11.62	237.85	0.650	0.00	5.00	18.385	11.95	139.0	0.0	1,016.2
85.00		1.00	1.22	10.708	11.77	230.17	0.650	0.00	5.00	17.691	11.50	135.4	0.0	977.5
90.00		1.00	1.23	10.838	11.92	222.29	0.650	0.00	5.00	16.997	11.05	131.7	0.0	938.7
92.26	Bot - Section 3	1.00	1.24	10.894	11.98	218.68	0.650	0.00	2.26	7.444	4.84	58.0	0.0	411.0
95.00		1.00	1.25	10.962	12.05	214.24	0.650	0.00	2.74	9.033	5.87	70.8	0.0	917.2
97.76	Top - Section 2	1.00	1.26	11.028	12.13	209.73	0.650	0.00	2.76	8.867	5.76	69.9	0.0	899.8
100.0		1.00	1.26	11.081	12.18	210.32	0.650	0.00	2.24	7.060	4.59	55.9	0.0	334.5
105.0		1.00	1.27	11.195	12.31	201.98	0.650	0.00	5.00	15.232	9.90	121.9	0.0	721.5
110.0		1.00	1.29	11.305	12.43	193.51	0.650	0.00	5.00	14.538	9.45	117.5	0.0	688.2
115.0		1.00	1.30	11.412	12.55	184.91	0.650	0.00	5.00	13.845	9.00	113.0	0.0	655.0
120.0		1.00	1.31	11.514	12.66	176.19	0.650	0.00	5.00	13.151	8.55	108.3	0.0	621.8
125.0		1.00	1.32	11.614	12.77	167.36	0.650	0.00	5.00	12.457	8.10	103.4	0.0	588.6
130.0		1.00	1.33	11.710	12.88	158.42	0.650	0.00	5.00	11.763	7.65	98.5	0.0	555.4
130.0	Bot - Section 4	1.00	1.33	11.710	12.88	158.41	0.650	0.00	0.01	0.015	0.01	0.1	0.0	0.7
134.0	Top - Section 3	1.00	1.34	11.785	12.96	151.19	0.650	0.00	4.00	9.037	5.87	76.1	0.0	635.1
135.0		1.00	1.34	11.803	12.98	151.60	0.650	0.00	0.99	2.175	1.41	18.4	0.0	51.7
137.0	Appertunance(s)	1.00	1.35	11.840	13.02	147.96	0.650	0.00	2.00	4.297	2.79	36.4	0.0	102.1
140.0		1.00	1.35	11.894	13.08	142.47	0.650	0.00	3.00	6.237	4.05	53.0	0.0	148.1
145.0		1.00	1.36	11.982	13.18	133.26	0.650	0.00	5.00	9.840	6.40	84.3	0.0	233.6
147.0	Appertunance(s)	1.00	1.37	12.017	13.21	129.55	0.650	0.00	2.00	3.742	2.43	32.1	0.0	88.8
150.0		1.00	1.37	12.068	13.27	123.96	0.650	0.00	3.00	5.404	3.51	46.6	0.0	128.2
155.0		1.00	1.38	12.152	13.36	114.58	0.650	0.00	5.00	8.452	5.49	73.4	0.0	200.4
157.0	Appertunance(s)	1.00	1.39	12.185	13.40	110.80	0.650	0.00	2.00	3.186	2.07	27.8	0.0	75.5
Totals:								157.00				4,021.6	0.0	32,479.7

Pole : CT54XC773
 Location : Hamden, CT
 Height : 157.0 (ft)
 Shape : 18 Sides
 Base Dia : 68.00 (in)
 Top Dia : 18.50 (in)
 Taper : 0.328026 (in/ft)

Code: ANSI/TIA-222 Rev G
 Struct Class : II
 Exposure Category : C
 Topographic Category : 1

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Base Elev : 0.000 (ft)

Load Case: 1.0D + 1.0W

60.00 mph Serviceability

20 Iterations

Gust Response Factor : 1.10

Wind Importance Factor : 1.00

Dead Load Factor : 1.00

Wind Load Factor : 1.00

Discrete Appurtenance Segment Forces (Factored)

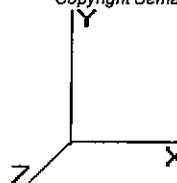
Elev (ft)	Description	Qty	qz (psf)	qzGh (psf)	CaAa Factor	Ka	Total CaAa (sf)	Horiz Ecc (ft)	Vert Ecc (ft)	Wind FX (lb)	Mom Y (lb-ft)	Mom Z (lb-ft)	Dead Load (lb)
137.0	Pipe Mount	3	11.840	13.024	1.00	1.00	10.50	0.000	0.000	136.75	0.00	0.00	159.96
137.0	742 213	3	11.840	13.024	0.58	0.80	8.87	0.000	0.000	115.50	0.00	0.00	66.15
147.0	MGD3-800Tx	3	12.017	13.219	0.62	0.80	6.27	0.000	0.000	82.92	0.00	0.00	46.29
147.0	P65-16-XL-2	2	12.017	13.219	1.00	1.00	16.80	0.000	0.000	222.07	0.00	0.00	88.00
147.0	Low Profile Platform	1	12.017	13.219	1.00	1.00	25.55	0.000	0.000	337.74	0.00	0.00	1,600.00
147.0	TMA's	6	12.017	13.219	0.54	0.80	3.09	0.000	0.000	40.81	0.00	0.00	105.00
147.0	LNx-6514DS-T4M	1	12.017	13.219	1.00	1.00	8.41	0.000	0.000	111.17	0.00	0.00	37.50
147.0	LPA-80080/4CF	6	12.017	13.219	0.57	0.80	20.64	0.000	0.000	272.86	0.00	0.00	72.00
157.0	DB848H90E-M	9	12.185	13.403	0.73	0.80	54.77	0.000	0.000	734.14	0.00	0.00	252.00
157.0	VHLP2-18-1WH	2	12.185	13.403	0.75	1.00	5.94	0.000	0.000	79.61	0.00	0.00	180.00
157.0	Platform w/Rail	1	12.209	13.430	1.00	1.00	35.85	0.000	1.500	481.46	0.00	722.19	2,500.00
157.0	DTMA-BRS160	3	12.185	13.403	0.70	0.80	1.40	0.000	0.000	18.80	0.00	0.00	33.00
157.0	XP4-65-R	3	12.185	13.403	0.76	0.80	7.94	0.000	0.000	106.38	0.00	0.00	60.00
										2,740.21			5,199.90

Pole : CT54XC773
 Location : Hamden, CT
 Height : 157.0 (ft)
 Shape : 18 Sides
 Base Dia : 68.00 (in)
 Top Dia : 18.50 (in)
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Code: ANSI/TIA-222 Rev G
 Struct Class : II
 Exposure Category : C
 Topographic Category : 1

Base Elev : 0.000 (ft)

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Load Case: 1.0D + 1.0W

60.00 mph Serviceability

20 Iterations

Gust Response Factor : 1.10

Wind Importance Factor : 1.00

Dead Load Factor : 1.00

Wind Load Factor : 1.00

Applied Segment Forces Summary

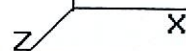
Seg Elev (ft)	Lateral FX (-) (lb)	Axial FY (-) (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)
0.00	0.00	0.00	0.00	0.00
5.00	151.24	1,749.98	0.00	0.00
10.00	147.55	1,711.23	0.00	0.00
15.00	143.86	1,672.48	0.00	0.00
20.00	148.72	1,633.73	0.00	0.00
25.00	151.77	1,594.98	0.00	0.00
30.00	153.44	1,556.24	0.00	0.00
35.00	154.09	1,517.49	0.00	0.00
40.00	153.95	1,478.74	0.00	0.00
45.00	153.17	1,439.99	0.00	0.00
45.34	10.16	95.57	0.00	0.00
50.00	143.84	2,469.11	0.00	0.00
52.67	81.38	1,383.35	0.00	0.00
55.00	70.54	639.74	0.00	0.00
60.00	150.55	1,344.42	0.00	0.00
65.00	148.09	1,305.67	0.00	0.00
70.00	145.32	1,266.92	0.00	0.00
75.00	142.27	1,228.17	0.00	0.00
80.00	138.97	1,189.43	0.00	0.00
85.00	135.45	1,150.68	0.00	0.00
90.00	131.71	1,111.93	0.00	0.00
92.26	57.98	489.16	0.00	0.00
95.00	70.80	1,012.20	0.00	0.00
97.76	69.91	995.29	0.00	0.00
100.0	55.93	412.19	0.00	0.00
105.0	121.93	894.64	0.00	0.00
110.0	117.52	861.43	0.00	0.00
115.0	112.96	828.21	0.00	0.00
120.0	108.27	795.00	0.00	0.00
125.0	103.44	761.79	0.00	0.00
130.0	98.49	728.58	0.00	0.00
130.0	0.13	0.95	0.00	0.00
134.0	76.15	773.65	0.00	0.00
135.0	18.36	86.09	0.00	0.00
137.0	288.62	397.45	0.00	0.00
140.0	53.04	233.31	0.00	0.00
145.0	84.30	375.56	0.00	0.00
147.0	1,099.72	2,094.36	0.00	0.00
150.0	46.63	175.94	0.00	0.00
155.0	73.43	279.95	0.00	0.00
157.0	1,448.15	3,132.33	0.00	722.19
Totals:	6,761.83	42,867.91	0.00	722.19

Pole : CT54XC773
 Location : Hamden, CT
 Height : 157.0 (ft)
 Shape : 18 Sides
 Base Dia : 68.00 (in)
 Top Dia : 18.50 (in)
 Taper : 0.328026 (in/ft)

Code: ANSI/TIA-222 Rev G
 Struct Class : II
 Exposure Category : C
 Topographic Category : 1

Base Elev : 0.000 (ft)

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Load Case: 1.0D + 1.0W

60.00 mph Serviceability

20 Iterations

Gust Response Factor : 1.10

Wind Importance Factor : 1.00

Dead Load Factor : 1.00

Wind Load Factor : 1.00

Calculated Forces

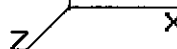
Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-42.87	-6.77	0.00	-719.02	0.00	719.02	5,382.06	2,691.03	14,961.9	7,492.11	0.00	0.00	0.104
5.00	-41.11	-6.63	0.00	-685.18	0.00	685.18	5,309.05	2,654.53	14,398.4	7,209.92	0.01	-0.02	0.103
10.00	-39.40	-6.49	0.00	-652.04	0.00	652.04	5,221.75	2,610.88	13,807.0	6,913.77	0.04	-0.04	0.102
15.00	-37.73	-6.36	0.00	-619.56	0.00	619.56	5,088.52	2,544.26	13,109.1	6,564.31	0.09	-0.06	0.102
20.00	-36.09	-6.22	0.00	-587.75	0.00	587.75	4,955.29	2,477.65	12,429.3	6,223.90	0.16	-0.08	0.102
25.00	-34.49	-6.08	0.00	-556.63	0.00	556.63	4,822.06	2,411.03	11,767.6	5,892.57	0.25	-0.10	0.102
30.00	-32.94	-5.94	0.00	-526.22	0.00	526.22	4,688.83	2,344.42	11,124.0	5,570.29	0.36	-0.12	0.102
35.00	-31.42	-5.79	0.00	-496.53	0.00	496.53	4,555.60	2,277.80	10,498.5	5,257.08	0.50	-0.14	0.101
40.00	-29.94	-5.65	0.00	-467.57	0.00	467.57	4,422.37	2,211.19	9,891.16	4,952.93	0.66	-0.16	0.101
45.00	-28.50	-5.50	0.00	-439.34	0.00	439.34	4,289.14	2,144.57	9,301.86	4,657.84	0.84	-0.18	0.101
45.34	-28.40	-5.49	0.00	-437.49	0.00	437.49	4,280.17	2,140.08	9,262.83	4,638.30	0.85	-0.19	0.101
50.00	-25.93	-5.35	0.00	-411.88	0.00	411.88	4,155.91	2,077.95	8,730.66	4,371.82	1.05	-0.21	0.100
52.67	-24.54	-5.26	0.00	-397.61	0.00	397.61	4,155.84	2,077.92	8,730.38	4,371.68	1.17	-0.22	0.097
55.00	-23.90	-5.20	0.00	-385.34	0.00	385.34	4,093.76	2,046.88	8,470.39	4,241.49	1.28	-0.23	0.097
60.00	-22.56	-5.05	0.00	-359.35	0.00	359.35	3,960.53	1,980.26	7,925.73	3,968.76	1.53	-0.26	0.096
65.00	-21.25	-4.91	0.00	-334.08	0.00	334.08	3,827.30	1,913.65	7,399.17	3,705.09	1.82	-0.28	0.096
70.00	-19.98	-4.76	0.00	-309.55	0.00	309.55	3,694.07	1,847.03	6,890.72	3,450.48	2.12	-0.31	0.095
75.00	-18.75	-4.62	0.00	-285.73	0.00	285.73	3,560.84	1,780.42	6,400.36	3,204.93	2.46	-0.33	0.094
80.00	-17.56	-4.49	0.00	-262.61	0.00	262.61	3,427.61	1,713.80	5,928.09	2,968.45	2.82	-0.36	0.094
85.00	-16.41	-4.35	0.00	-240.18	0.00	240.18	3,294.38	1,647.19	5,473.93	2,741.03	3.21	-0.38	0.093
90.00	-15.30	-4.22	0.00	-218.43	0.00	218.43	3,161.15	1,580.57	5,037.87	2,522.68	3.63	-0.41	0.091
92.26	-14.81	-4.16	0.00	-208.91	0.00	208.91	3,101.01	1,550.51	4,846.99	2,427.10	3.82	-0.43	0.091
95.00	-13.79	-4.08	0.00	-197.50	0.00	197.50	3,027.92	1,513.96	4,619.90	2,313.38	4.07	-0.44	0.090
97.76	-12.80	-4.01	0.00	-186.24	0.00	186.24	2,588.97	1,294.48	3,946.89	1,976.38	4.33	-0.46	0.099
100.00	-12.39	-3.96	0.00	-177.25	0.00	177.25	2,537.73	1,268.87	3,791.45	1,898.54	4.55	-0.47	0.098
105.00	-11.49	-3.83	0.00	-157.47	0.00	157.47	2,423.53	1,211.77	3,456.24	1,730.69	5.07	-0.51	0.096
110.00	-10.63	-3.71	0.00	-138.30	0.00	138.30	2,309.34	1,154.67	3,136.54	1,570.60	5.61	-0.54	0.093
115.00	-9.80	-3.60	0.00	-119.73	0.00	119.73	2,195.14	1,097.57	2,832.36	1,418.28	6.20	-0.57	0.089
120.00	-9.00	-3.49	0.00	-101.74	0.00	101.74	2,080.94	1,040.47	2,543.69	1,273.74	6.81	-0.61	0.084
125.00	-8.24	-3.38	0.00	-84.30	0.00	84.30	1,966.74	983.37	2,270.53	1,136.95	7.47	-0.64	0.078
130.00	-7.51	-3.28	0.00	-67.39	0.00	67.39	1,852.55	926.27	2,012.89	1,007.94	8.15	-0.67	0.071
130.01	-7.51	-3.28	0.00	-67.37	0.00	67.37	1,852.39	926.20	2,012.56	1,007.77	8.15	-0.67	0.071
134.01	-6.74	-3.19	0.00	-54.26	0.00	54.26	900.10	450.05	956.83	479.13	8.72	-0.69	0.121
135.00	-6.65	-3.18	0.00	-51.09	0.00	51.09	888.76	444.38	932.78	467.08	8.87	-0.70	0.117
137.00	-6.25	-2.89	0.00	-44.74	0.00	44.74	865.92	432.96	885.28	443.30	9.17	-0.72	0.108
140.00	-6.02	-2.83	0.00	-36.08	0.00	36.08	831.66	415.83	816.37	408.79	9.63	-0.75	0.096
145.00	-5.64	-2.75	0.00	-21.91	0.00	21.91	774.56	387.28	707.71	354.38	10.44	-0.79	0.069
147.00	-3.57	-1.62	0.00	-16.42	0.00	16.42	751.72	375.86	666.42	333.70	10.78	-0.81	0.054
150.00	-3.39	-1.57	0.00	-11.56	0.00	11.56	717.46	358.73	606.81	303.86	11.29	-0.82	0.043
155.00	-3.11	-1.49	0.00	-3.71	0.00	3.71	660.36	330.18	513.67	257.22	12.16	-0.84	0.019
157.00	0.00	-1.45	0.00	-0.72	0.00	0.72	637.52	318.76	478.58	239.65	12.51	-0.84	0.003

Pole : CT54XC773
Location : Hamden, CT
Height : 157.0 (ft)
Shape : 18 Sides
Base Dia : 68.00 (in)
Top Dia : 18.50 (in)
Taper : 0.328026 (in/ft)

Code: ANSI/TIA-222 Rev G
Struct Class : II
Exposure Category : C
Topographic Category : 1

Base Elev : 0.000 (ft)

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Analysis Summary

Load Case	Reactions						Max Usage	
	Shear FX (kips)	Shear FZ (kips)	Axial FY (kips)	Moment MX (ft-kips)	Moment MY (ft-kips)	Moment MZ (ft-kips)	Elev (ft)	Interaction Ratio
1.2D + 1.6W	39.79	0.00	51.40	0.00	0.00	4239.95	134.01	0.68
0.9D + 1.6W	39.78	0.00	38.54	0.00	0.00	4216.07	134.01	0.67
1.2D + 1.0Di + 1.0Wi	8.81	0.00	91.04	0.00	0.00	926.45	134.01	0.16
1.0D + 1.0W	6.77	0.00	42.87	0.00	0.00	719.02	134.01	0.12