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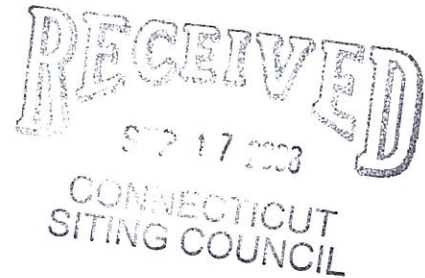
EM-POCKET-062-080917

www.pullcom.com

September 16, 2008

Via Federal Express

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



Re: Notice of Exempt Modification
Sprint Sites USA Telecommunications Facility
150 Willow Street, Hamden, Connecticut

Dear Mr. Phelps:

Youghiogheny Communications-Northeast, LLC, doing business as Pocket Communications ("Pocket"), intends to install antennas, and appurtenant equipment at the existing 160-foot monopole facility owned by Sprint Sites USA and located at 150 Willow Street, Hamden, Connecticut ("Facility"). Pocket Communications provides prepaid, flat rate wireless voice and data services to more than a quarter of a million subscribers. Pocket is licensed by the Federal Communications Commission (FCC) to provide PCS wireless telecommunications service in the State of Connecticut, which includes the area to be served by the proposed installation. This installation constitutes an exempt modification pursuant to the Public Utility Environmental Standards Act, Connecticut General Statutes Section 16-50g et. seq. (PUESA), and Section 16-50j-72(b)(2) of the Regulations of the Connecticut State Agencies adopted pursuant to PUESA. In accordance with R.C.S.A. Section 16-50j-73, a copy of this notice has been sent to Craig Henrici, Mayor, Town of Hamden.

The existing Facility consists of a 160-foot self-supporting monopole tower capable of supporting multiple carriers within a fenced compound. The coordinates for the Facility are **41°-26'-57.81" and Long: 72°-54'-16.46"**. The tower is located approximately 700 feet east of Willow Street and roughly 1,600 feet east of Whitney Avenue (Route 10) in the northern portion of Hamden. The facility is approximately 1,300 feet south of the Cheshire town line see Site Map, attached as Exhibit A). The tower currently supports Verizon antennas at the one hundred forty seven foot level (147'), centerline AGL (above ground level) and Sprint antennas at the one hundred fifty seven foot level (157') AGL. Pocket proposes to install three Kathrein 742-213 flush mount antennas on the tower at the one hundred thirty seven foot level centerline (137') AGL, and a Nortel CDMA Micro BTS 3231 cabinet, mounted on an "H-Frame," contained within a six foot by six foot (6'-0" x 6'-0") lease area. A small GPS antenna will be mounted to the H frame holding Pocket's equipment cabinet. Utilities will be run via a proposed

Page 2

underground conduit from an existing utility backboard, within the southwest corner of the compound (See Design Drawings and Equipment Specifications, attached as Exhibits B and C respectively).

For the following reasons, the proposed modifications to the Willow Street Facility meet the exempt modification criteria set forth in R.C.S.A. Section 16-50j-72(b)(2):

1. The proposed modification will not increase the height of the tower as Pocket's antennas will be installed at a center line height of approximately 137 feet.
2. The installation of Pocket's equipment and shelter will not require an extension of the site boundaries.
3. The proposed modifications will not increase the noise levels at the existing Facility by six decibels or more.
4. The operation of the additional antennas will not increase the total radio frequency (RF) power density, measured at the site boundary, to a level at or above the standard adopted by the Connecticut Department of Environmental Protection as set forth in Section 22a-162 of the Connecticut General Statutes and MPE limits established by the Federal Communications Commission. The worst-case RF power density calculations for the proposed Pocket antennas would be 17.71% of the FCC standard (see general power density calculations table, attached as Exhibit D).

Also attached, Exhibit E, is a structural analysis confirming that the tower can support the existing and proposed antennas and associated equipment.

For the foregoing reasons, Pocket respectfully submits that the proposed antenna installation and equipment at the Hamden Facility constitutes an exempt modification under R.C.S.A. Section 16-50j-72(b)(2)

Respectfully Submitted,



Carrie L. Larson

cc: Craig Henrici, Mayor, Town of Hamden
Hamden Fish & Game Protective Association, Inc., underlying property owner

Exhibit A

Site Map

Pocket Site NHCT0481

150 Willow Street

Hamden, Connecticut

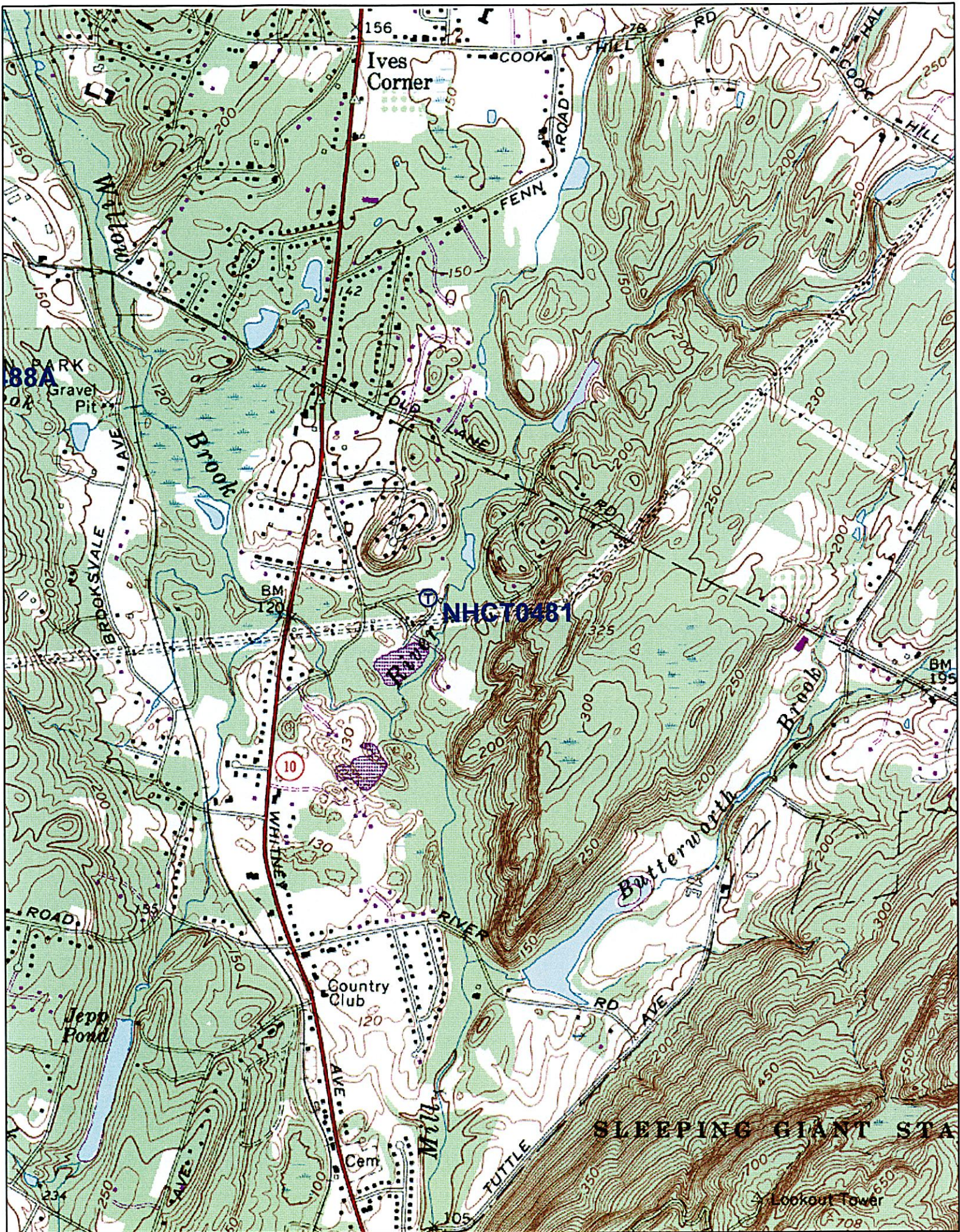


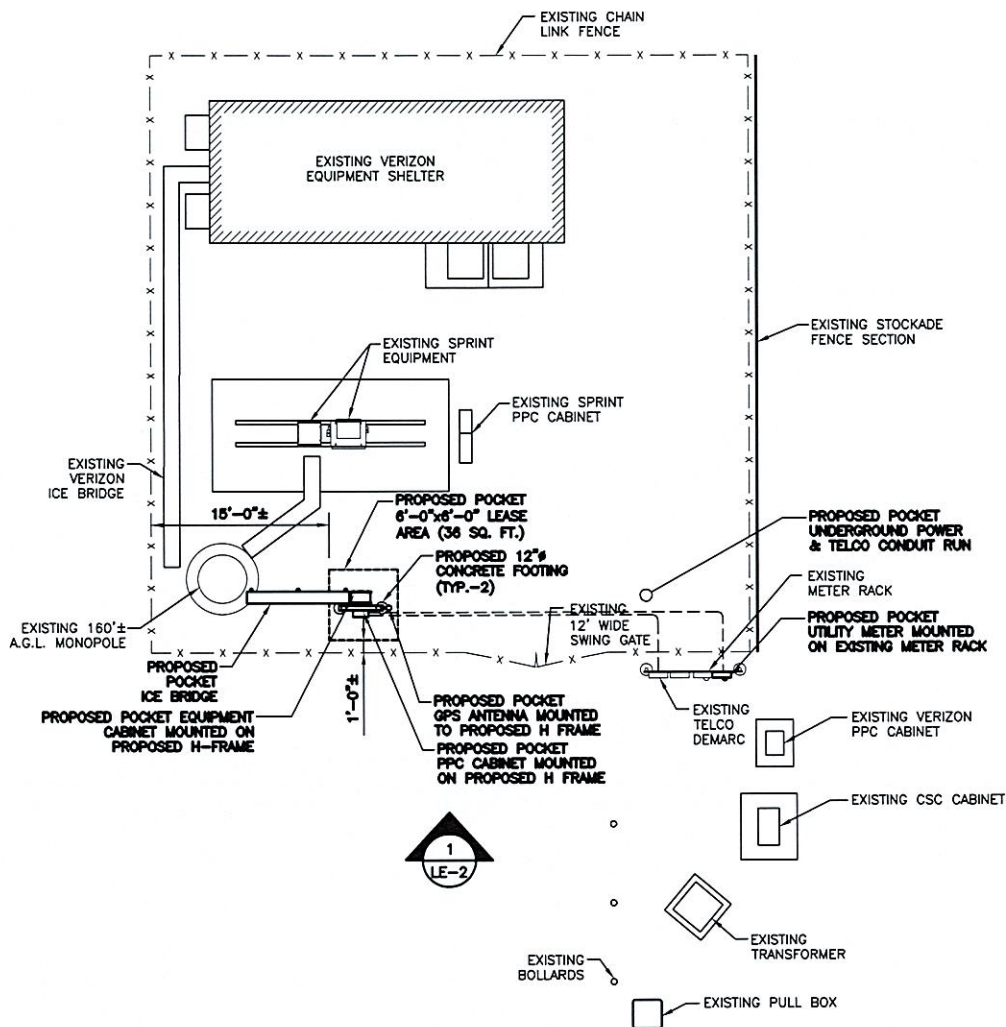
Exhibit B

Design Drawings

Pocket Site NHCT0481

150 Willow Street

Hamden, Connecticut



COMPOUND PLAN

SCALE: N.T.S.

1

APPROVALS

SITE OWNER (SSUSA)	DATE
CONSTRUCTION MANAGER	DATE
R.F. ENGINEER	DATE
SITE ACQUISITION	DATE

THE ABOVE PARTIES HEREBY APPROVE AND ACCEPT THESE REQUIREMENTS AND AUTHORIZE THE CONSTRUCTION TO PROCEED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL, STATE, FEDERAL AND ANY COURTESY OR NEIGHBORING AGENCIES.



50 Eastman St.
South Easton, MA 02375
Phone: (508) 636-6363
Fax: (508) 636-6365

Bay State Design
Associates, Inc.
Architects - Engineers

70 Tower Office Park
Woburn, MA 01801
Phone: 781-932-2467
Fax: 781-932-9771

PREPARED FOR:



Pocket Communications
P.O. Box 5936
San Antonio, TX 78201

SITE NUMBER:

SPRINT CT54XC773

SITE NAME:

NH-481
HAMDEN, CT

SITE ADDRESS:

150 WILLOW STREET
HAMDEN, CT. 06518

DRAWN BY:

DM

CHECKED BY:

JP

DATE:

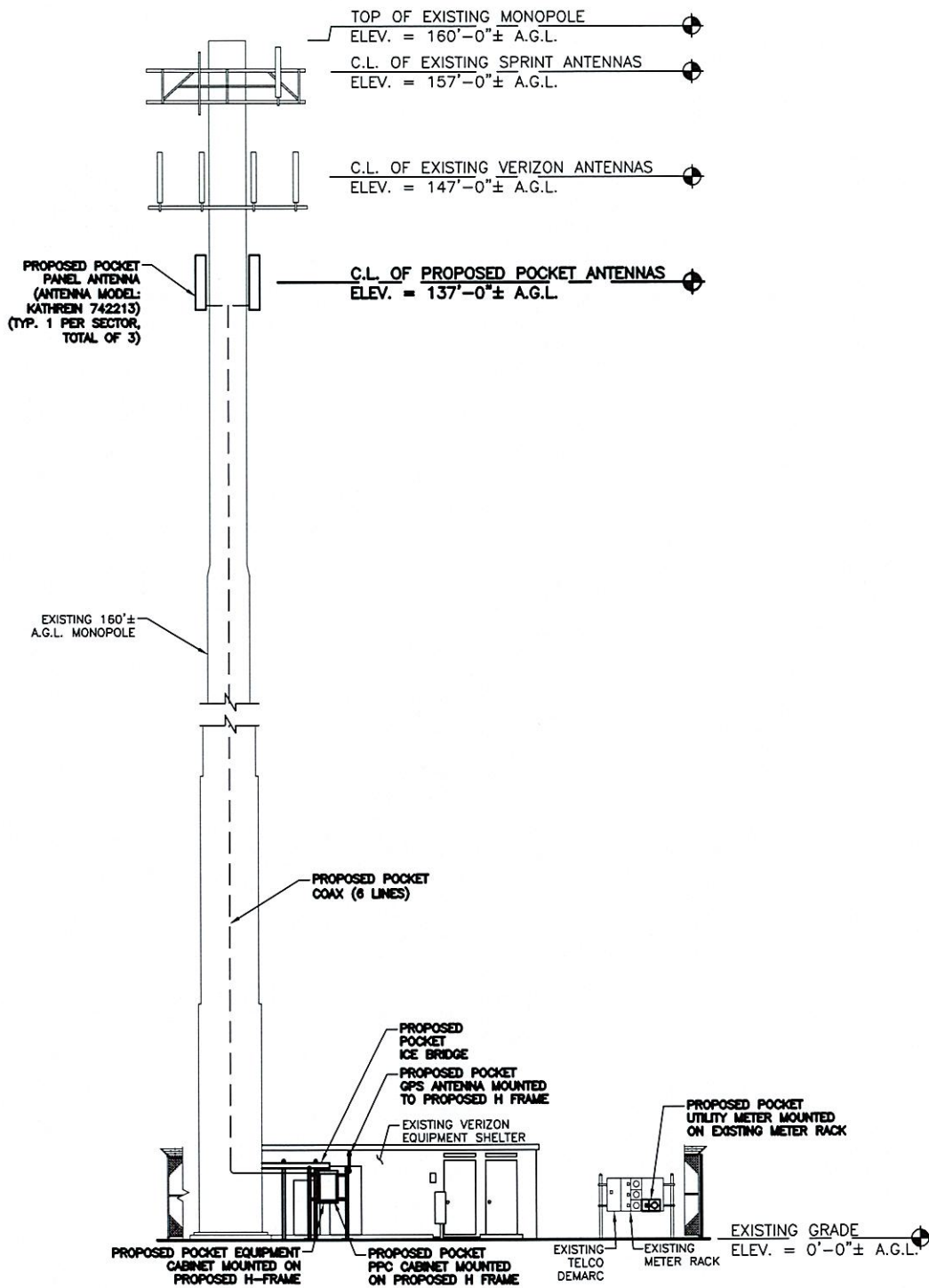
08/28/08

PROJECT NUMBER:

2882.076

SHEET:

LE-1



ELEVATION

SCALE: N.T.S.

1

APPROVALS

SITE OWNER (SSUSA)	DATE
CONSTRUCTION MANAGER	DATE
R.F. ENGINEER	DATE
SITE ACQUISITION	DATE

THE ABOVE DRAWING HEREBY APPROVES AND ACCEPTS THESE CONDITIONS AND AGREES TO PROCEED WITH THE CONSTRUCTION OF THE ABOVE DESCRIBED PROJECT. THE LOCAL BUILDING DEPARTMENT AND ANY CHANGES OR MODIFICATIONS THEY MAY IMPOSE.

MAXTON
BAY STATE DESIGN

50 Eastman St.
 South Easton, MA 02375
 Phone: (508) 335-0363
 Fax: (508) 335-0360

Bay State Design
 Associates, Inc.
 Architects • Engineers

70 Tower Office Park
 Woburn, MA 01801
 Phone: 781-932-2467
 Fax: 781-932-9771

PREPARED FOR:



Pocket Communications
 P.O. Box 5936
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SITE NUMBER:

SPRINT CT54XC773

SITE NAME:

NH-481
 HAMDEN, CT

SITE ADDRESS:

150 WILLOW STREET
 HAMPDEN, CT. 06518

DRAWN BY:

DM

CHECKED BY:

JP

DATE:

08/28/08

PROJECT NUMBER:

2882.076

SHEET:

LE-2

Exhibit C

Equipment Specifications

Pocket Site NHCT0481

150 Willow Street

Hamden, Connecticut

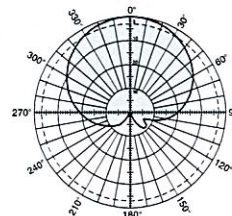
Kathrein's X-polarized adjustable electrical downtilt antennas offer the wireless carrier the ability to tailor polarization diversity sites for optimum performance. Using variable downtilt, only a few models need be procured to accommodate the needs of widely varying conditions. Remotely controlled downtilt is available as a retrofitable option.

- 0-6° downtilt range.
- UV resistant pulltruded fiberglass radome.
- DC Grounded metallic parts for impulse suppression.
- No moving electrical connections.
- Wideband vector dipole technology.
- Optional remote downtilt Control.
- Will accommodate future 3G / UMTS applications.

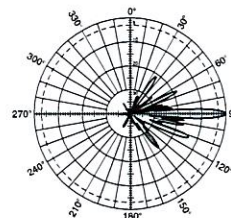
General specifications:

Frequency range	1710–2170 MHz
VSWR	< 1.5:1
Impedance	50 ohms
Intermodulation (2x20w)	IM3: <-150 dBc
Polarization	+45° and -45°
Front-to-back ratio (180°±30°)	>30 dB (co-polar) >25 dB (total power)
Maximum input power	300 watts per input (at 50°C)
Electrical downtilt continuously adjustable	0–6 degrees
Connector	2 x 7/16 DIN female
Isolation	>30 dB
Cross polar ratio	
Main direction	0° 25 dB (typical)
Sector	±60° >10 dB
Weight	22 lb (10 kg)
Dimensions	76.5 x 6.1 x 2.7 inches (1942 x 155 x 69 mm)
Equivalent flat plate area	4.62 ft² (0.429 m²)
Wind survival rating*	120 mph (200 kph)
Shipping dimensions	87.2 x 6.8 x 3.6 inches (2214 x 172 x 92 mm)
Shipping weight	24.3 lb (11 kg)
Mounting	Fixed and tilt mount options are available for 2 to 4.6 inch (50 to 115 mm) OD masts.

See reverse for order information.



Horizontal pattern
±45° polarization



Vertical pattern
±45° polarization



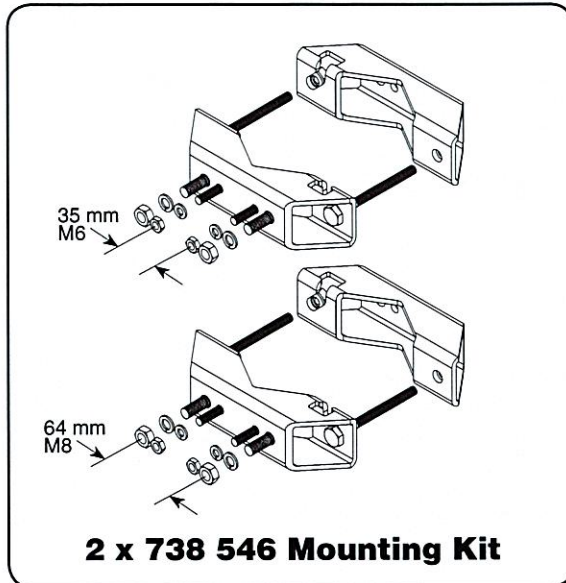
Specifications:	1710–1880 MHz	1850–1990 MHz	1920–2170 MHz
Gain	19 dBi	19.2 dBi	19.5 dBi
+45° and -45° polarization horizontal beamwidth	67° (half-power)	65° (half-power)	63° (half-power)
+45° and -45° polarization vertical beamwidth	4.7° (half-power)	4.5° (half-power)	4.3° (half-power)
Vertical Pattern—sidelobe suppression for first side- lobe above main beam	0° 2° 4° 6° T 18 17 15 15 dB	0° 2° 4° 6° T 18 18 17 15 dB	0° 2° 4° 6° T 18 18 17 15 dB



10642-H
936.2074/h

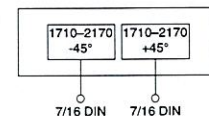
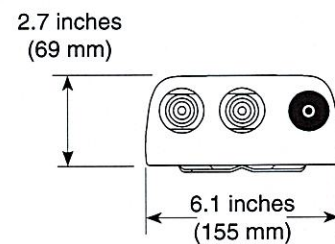
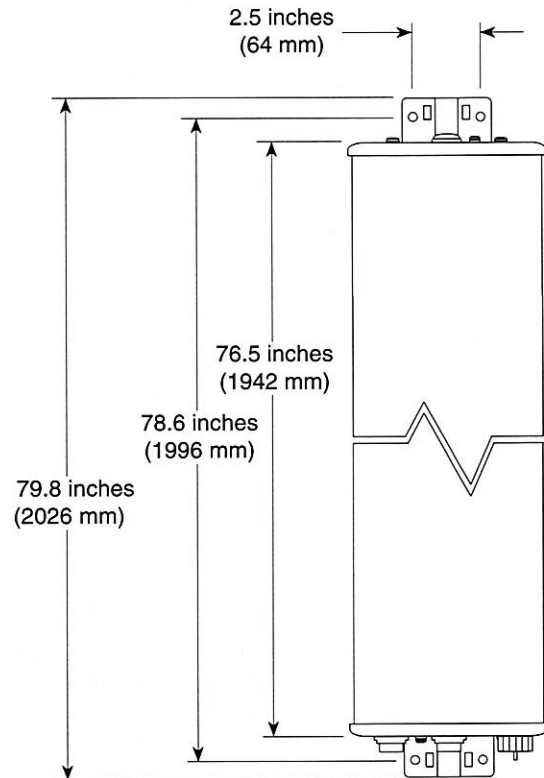


*Mechanical design is based on environmental conditions as stipulated in EIA-222-F (June 1996) and/or ETS 300 019-1-4 which include the static mechanical load imposed on an antenna by wind at maximum velocity. See the Engineering Section of the catalog for further details.



Mounting Options:

Model	Description
2 x 738 546	Mounting Kit for 2 to 4.6 inch (50 to 115 mm) OD mast.
737 978	Tilt Kit for use with the above mounting kit, 0–11 degrees downtilt angle. (requires 2 x 738 546 Mounting Kit)
742 263	Three-panel Sector Mounting Kit (120 deg. ea.) for 3.5 inch (89 mm) OD mast.

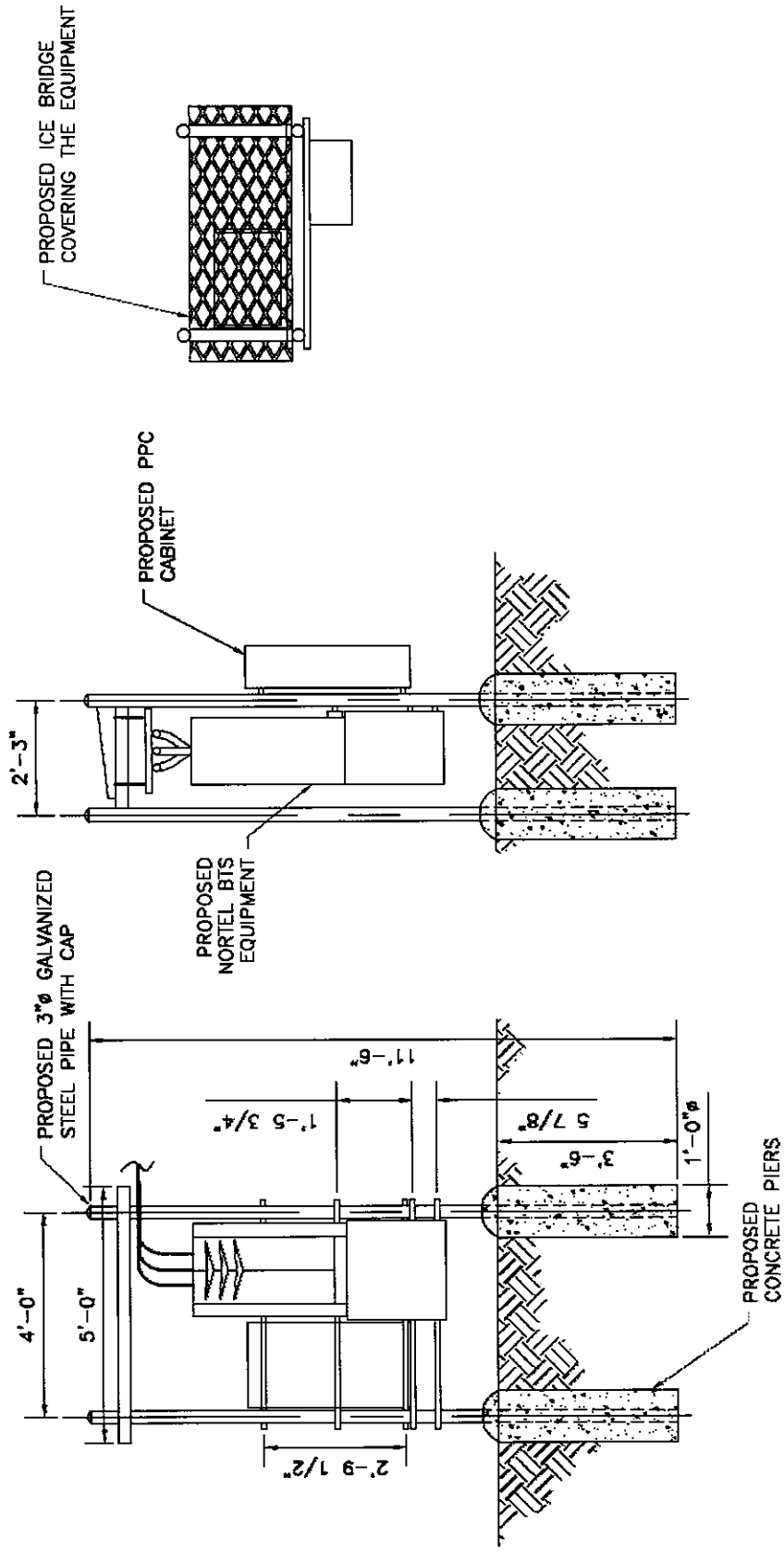


Order Information:

Model	Description
742 213	Antenna with 7/16 DIN connectors 0°–6° adjustable electrical downtilt

All specifications are subject to change without notice. The latest specifications are available at www.kathrein-scala.com.

Kathrein Inc., Scala Division Post Office Box 4580 Medford, OR 97501 (USA) Phone: (541) 779-6500 Fax: (541) 779-3991
Email: communications@kathrein.com Internet: www.kathrein-scala.com



Pocket/Youghiogheny Communications - Northeast, LLC
Rack Detail



CDMA BTS 3231 AWS 1.7/2.1 GHz (Outdoor/Indoor)

CDMA BTS 3231

Industry's Highest Capacity AWS Micro BTS

The CDMA BTS 3231 is the latest extension to Nortel Networks BTS (Base Transceiver Station) portfolio providing the ideal solution for urban, sub-urban and rural deployments. The CDMA BTS 3231 is a 3-carrier, 3-sector outdoor/indoor BTS operating at the AWS band of 1.7/2.1 GHz supporting IS-95, 1XRTT and 1xEV-DO simultaneously. BTS 3231 provides flexible deployments solutions including floor, rack, and wall mount options. The power consumption of BTS3231 is industry leading consuming only 630W for 3C3S. The BTS 3231 is also very light at 240lbs making it easy

to transport to hard to reach locations such as the top of a high rise building.

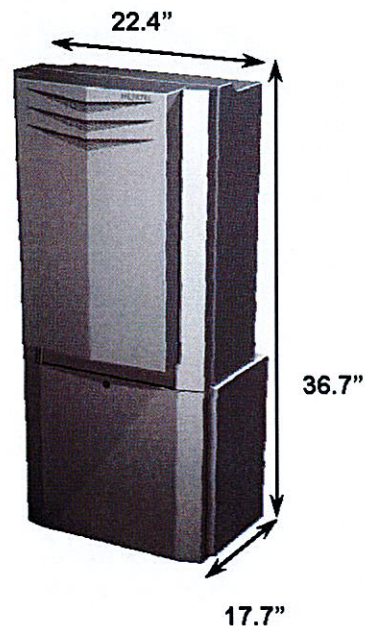


Exhibit D

Power Density Calculations

Pocket Site NHCT0481

150 Willow Street

Hamden, Connecticut



C Squared Systems, LLC
920 Candia Road
Manchester, NH 03109
Phone: (603) 657 9702
E-mail:

support@csquaredsystems.com

Calculated Radio Frequency Emissions



NewHaven_481

150 Willow Street, Hamden, CT

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1. Introduction

The purpose of this report is to investigate compliance with applicable FCC regulations for the proposed Pocket antennas to be installed on the existing tower at 150 Willow Street, Hamden, CT.

These calculations assume that the antennas are operating at 100 percent capacity, that all antenna channels are transmitting simultaneously, and that the radio transmitters are operating at full power. Obstructions (trees, buildings etc.) that would normally attenuate the signal are not taken into account. As a result, the predicted signal levels are much more conservative (higher) than the actual signal levels will be from the finished installation.

Public exposure to radio frequencies is regulated and enforced in units of microwatts per square centimeter (mW/cm^2). The number of mW/cm^2 emitted is called the power density. The general population exposure limit for the cellular band is $0.567\text{--}0.593 \text{ mW}/\text{cm}^2$, and the general population exposure limit for the PCS/AWS band is $1.0 \text{ mW}/\text{cm}^2$. Because each carrier will be using different frequency bands, and each frequency band has different exposure limits, it is necessary to report percent of MPE rather than power density.

The FCC general population / uncontrolled limits set the maximum exposure to which most people may be subjected. General population / uncontrolled exposures apply in situations in which the general public may be exposed, or in which persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or cannot exercise control over their exposure.

Higher exposure limits are permitted under the occupational / controlled exposure category, but only for persons who are exposed as a consequence of their employment and who have been made fully aware of the potential for exposure (through training), and they must be able to exercise control over their exposure. General population / uncontrolled limits are five times more stringent than the levels that are acceptable for occupational, or radio frequency trained individuals.”

The FCC describes exposure to radio frequency (RF) energy in terms of percentage of maximum permissible exposure (MPE) with 100% being the maximum allowed. Rather than the FCC presenting the user specification in terms of complex power density figures over a specified surface area, this MPE measure is particularly useful, and even more so when considering that power density limits actually vary by frequency because of the different absorptive properties of the human body at different frequencies.

MPE limits are specified as time-averaged exposure limits. This means that exposure can be averaged over 30 minutes for general population / uncontrolled exposure (or 6 minutes for occupational / controlled exposure). However, for the case of exposure of the general public, time averaging is usually not applied because of uncertainties over exact exposure conditions and difficulty in controlling time of exposure. Therefore, the typical conservative approach is to assume that any RF exposure to the general public will be continuous.

Finally, it should be noted that the MPE limits adopted by the FCC for both general population / uncontrolled exposure and for occupational / controlled exposure incorporate a substantial margin of safety and have been established to be well below levels generally accepted as having the potential to cause adverse health effects.

2. FCC Guidelines for Evaluating RF Radiation Exposure Limits

In 1985, the FCC established rules to regulate radio frequency (RF) exposure from FCC licensed antenna facilities. In 1996, the FCC updated these rules, which were further amended in August 1997 by OET Bulletin 65 Edition 97-01. These new rules include limits for Maximum Permissible Exposure (MPE) for transmitters operating between 300 kHz and 100 GHz. The FCC MPE limits are based on exposure limits recommended by the National Council on Radiation Protection and Measurements (NCRP), the exposure limits developed by the Institute of Electrical and Electronics Engineers, Inc., (IEEE) and adopted by the American National Standards Institute (ANSI).

Attachment B contains excerpts from OET Bulletin 65 and defines the Maximum Exposure Limit. As shown in these excerpts, each frequency band has different exposure limits, requiring power density to be reported as a percent of Maximum Permissible Exposure (MPE) when dealing with carriers transmitting in different frequency bands.

3. RF Exposure Prediction Methods

The emission field calculation results displayed in the following figures were generated using the following formula as outlined in FCC bulletin OET 65:

$$\text{Power Density} = \left(\frac{EIRP}{\pi \times R^2} \right) \times \text{Off Beam Loss}$$

Where:

EIRP = Effective Isotropic Radiated Power

R = Radial Distance = $\sqrt{H^2 + V^2}$

H = Horizontal Distance from antenna

V = Vertical Distance from bottom of antenna

Off Beam Loss is determined by the selected antenna patterns

4. Calculation Results

Table 1 below outlines the power density information for the site. All information for carriers other than Pocket was obtained from current CSC database.

Carrier	Number of Trans.	Effective Radiated Power (ERP) Per Transmitter (Watts)	Antenna Height (Feet)	Operating Frequency (MHz)	Total ERP (Watts)	Power Density (mw/cm ²)	Limit	%MPE
Sprint	11	299.95	157	1,963	3,299	0.0481	1.0000	4.81%
Verizon	9	285	147	880	2,565	0.0427	0.5867	7.28%
Verizon	3	400	147	1,900	1,200	0.0200	1.0000	2.00%
Pocket	3	631	137	2130-2133.75	1,893	0.0363	1.0000	3.63%
							Total	17.71%

Table 1: Proposed Carrier Information

5. Conclusion

The above analysis verifies that emissions from the proposed site will be well below the maximum power density levels as outlined by the FCC in the OET Bulletin 65 Ed. 97-01. Even when using conservative methods, the cumulative power density from the proposed transmit antennas at the existing facility is well below the limits for the general public. The highest expected percent of Maximum Permissible Exposure at the base of the tower is 17.71% of the FCC limit.

As noted in the introduction, obstructions (trees, buildings etc.) that would normally attenuate the signal are not taken into account. As a result, the predicted signal levels are more conservative (higher) than the actual signal levels will be from the finished installation.

6. Statement of Certification

I certify to the best of my knowledge that the statements in this report are true and accurate. The calculations follow guidelines set forth in ANSI/IEEE Std. C95.3, ANSI/IEE Std. C95.1 and FCC OET Bulletin 65 Edition 97-01.


Tony Wells
C Squared Systems

September 11, 2008
Date

Attachment A: References

OET Bulletin 65 - Edition 97-01 - August 1997 Federal Communications Commission Office of Engineering & Technology

ANSI C95.1-1982, American National Standard Safety Levels With Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 300 kHz to 100 GHz. IEEE-SA Standards Board

IEEE Std C95.3-1991 (Reaff 1997), IEEE Recommended Practice for the Measurement of Potentially Hazardous Electromagnetic Fields - RF and Microwave. IEEE-SA Standards Board

Attachment B: FCC Limits For Maximum Permissible Exposure (MPE)

(A) Limits for Occupational/Controlled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (E) (A/m)	Power Density (S) (mW/cm ²)	Averaging Time E ² , H ² or S (minutes)
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842/f	4.89/f	(900/f ²)*	6
30-300	61.4	0.163	1.0	6
300-1500	-	-	f/300	6
1500-100,000	-	-	5	6

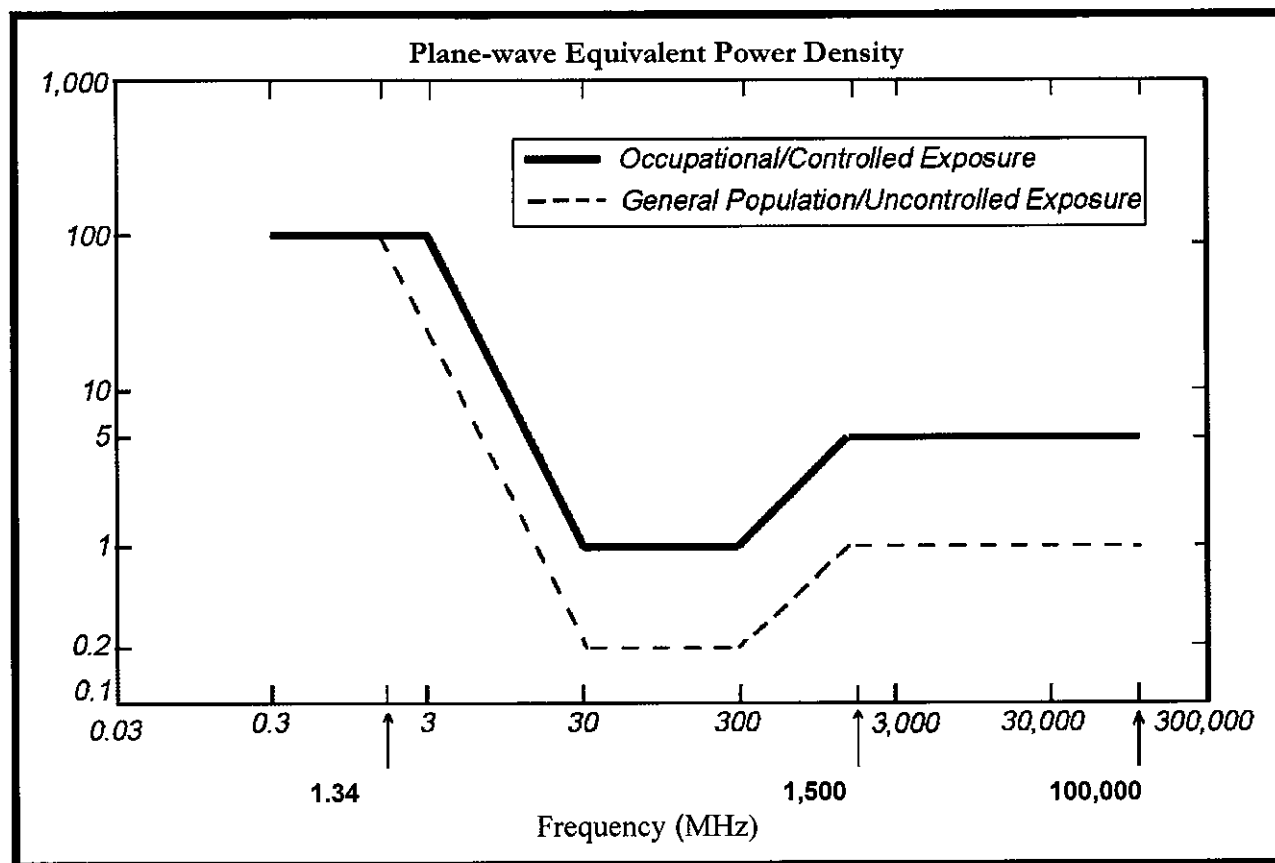
(B) Limits for General Population/Uncontrolled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (E) (A/m)	Power Density (S) (mW/cm ²)	Averaging Time E ² , H ² or S (minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f ²)*	30
30-300	27.5	0.073	0.2	30
300-1500	-	-	f/1500	30
1500-100,000	-	-	1.0	30

f = frequency in MHz * Plane-wave equivalent power density

NOTE 1: Occupational/controlled limits apply in situations in which persons are exposed as a consequence of their employment provided those persons are fully aware of the potential for exposure and can exercise control over their exposure. Limits for occupational/controlled exposure also apply in situations when an individual is transient through a location where occupational/controlled limits apply provided he or she is made aware of the potential for exposure.

NOTE 2: General population/uncontrolled exposures apply in situations in which the general public may be exposed, or in which persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or can not exercise control over their exposure.



• FCC Limits for Maximum Permissible Exposure (MPE)

Exhibit E

Structural Analysis

Pocket Site NHCT0481

150 Willow Street

Hamden, Connecticut

1079 N. 205th Street
Elkhorn, NE 68022
Ph: 402-289-1888
Fax: 402-289-1861

SEMAAN ENGINEERING SOLUTIONS

157 ft EEI Monopole Structural Analysis

**Prepared for:
Sprint Sites USA
2393 Pendley Road
Suite 200
Cumming, GA 30041**

**Site: CT54XC773
For Pocket Communications
Hamden, CT**

August 25, 2008

Ms. Jen Ilacqua
Sprint Sites USA
2393 Pendley Road
Suite 200
Cumming, GA 30041

Re: Site Number CT54XC773 – Hamden, CT.

Dear Ms. Ilacqua:

We have completed the structural analysis for the existing monopole, located at the above referenced site. The purpose of this analysis is to determine that the existing monopole design is in conformance with the TIA/EIA-222 Rev F standard and local building codes for the proposed antennae loads installation. Refer to the Review and Recommendations section at the end of this report for the analysis results.

Description of Structure:

The structure is a 157 ft EEI Monopole .

Refer to EEI Job No 14977 dated July 16, 2007 for a detailed description of the structure.

Method of analysis:

The tower was analyzed using Semaan Engineering Solutions' software suite for communication structures. The structural analysis is performed using the SAPS finite element engine. The method is 3D, non-linear, which accounts for the second order geometric effects due to the displacements. It also treats guys as exact cable elements and therefore is ideal for guyed towers. The analysis was performed in conformance with **TIA/EIA-222 Rev F and local building codes for a basic wind speed of 90 mph and 1/2" radial ice with reduced wind speed (fastest mile)**. This is in conformance with the IBC 2006: Section 1609.1.1, Exception (4) and Section 3108.4. Wind is applied to the structure, accessories and antennas.

Structure loading:

The following loads were used in the tower analysis:

Elev (ft)	Qty	Antennas	Mounts	Coax	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			
147.0	6	TMA's	Low Profile Platform	(12) 1 5/8"	Verizon
	6	LPA 185080/8CF			
	6	LPA-80080/4CF			

Proposed Loads:

Elev (ft)	Qty	Antennas	Mounts	Coax	Carrier
137.0	3	742 213	(3) Pipe Mount	(6) 1 5/8"	Pocket Communications

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.

All transmission lines are assumed running inside of pole shaft.

Results of Analysis:

Refer to the attached Computer Summary sheets for detailed analysis results.

Structure:

The existing monopole is structurally capable of supporting the existing and proposed antennas. The maximum structure usage is: 56.3%.

Foundation:

Pole Reactions	Original Design Reactions	Current Analysis Reactions	% Of Design
Moment (ft-kips)	7,151.38	2,954.94	41.3
Shear (kips)	61.40	27.25	44.4

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

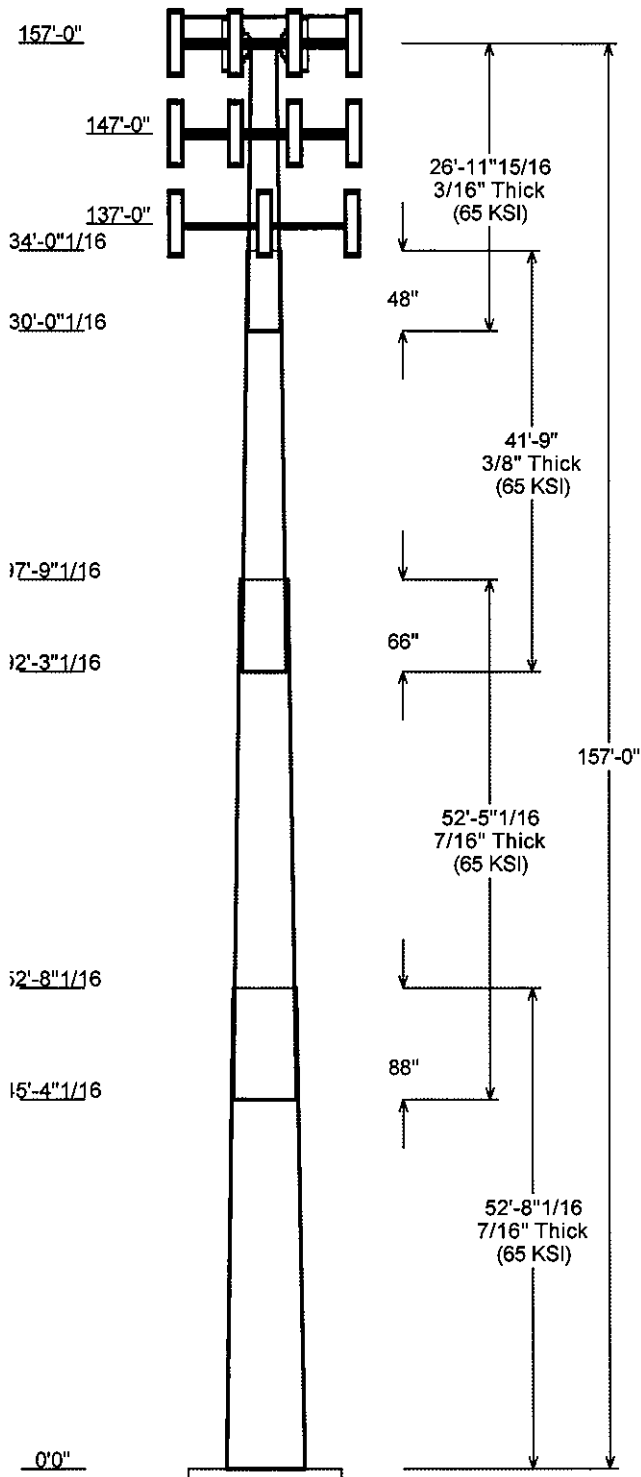
Review and Recommendations:

Based on the analysis results, the existing structure meets the requirements per the TIA/EIA-222 Rev F standards for a basic wind speed of 90 mph and 1/2" radial ice with reduced wind speed.

SEMAAN ENGINEERING SOLUTIONS

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

Copyright Semaan Engineering Solutions, Inc

**Job Information**

Pole: CT54XC773 Code: TIA/EIA-222 Rev F
 Description :
 Client : Sprint Sites USA - GA 2
 Location : Hamden, CT
 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 (in)	Joint Type	Overlap Length (in)	Taper (in/ft)	Steel Grade (ksi)
		Across	Flats					
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	1	Low Profile Platform
147.000	147.000	6	TMA's
147.000	147.000	6	LPA 185080/8CF
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	0.000	137.0	1 5/8" Coax	No
0.000	0.000	147.0	1 5/8" Coax	No
0.000	0.000	157.0	1 5/8" Coax	No
0.000	0.000	157.0	1/2" Coax	No

Load Cases

No Ice	90.00 mph Wind with No Ice
Ice	77.94 mph Wind with Ice
Twist/Sway	50.00 mph Wind with No Ice

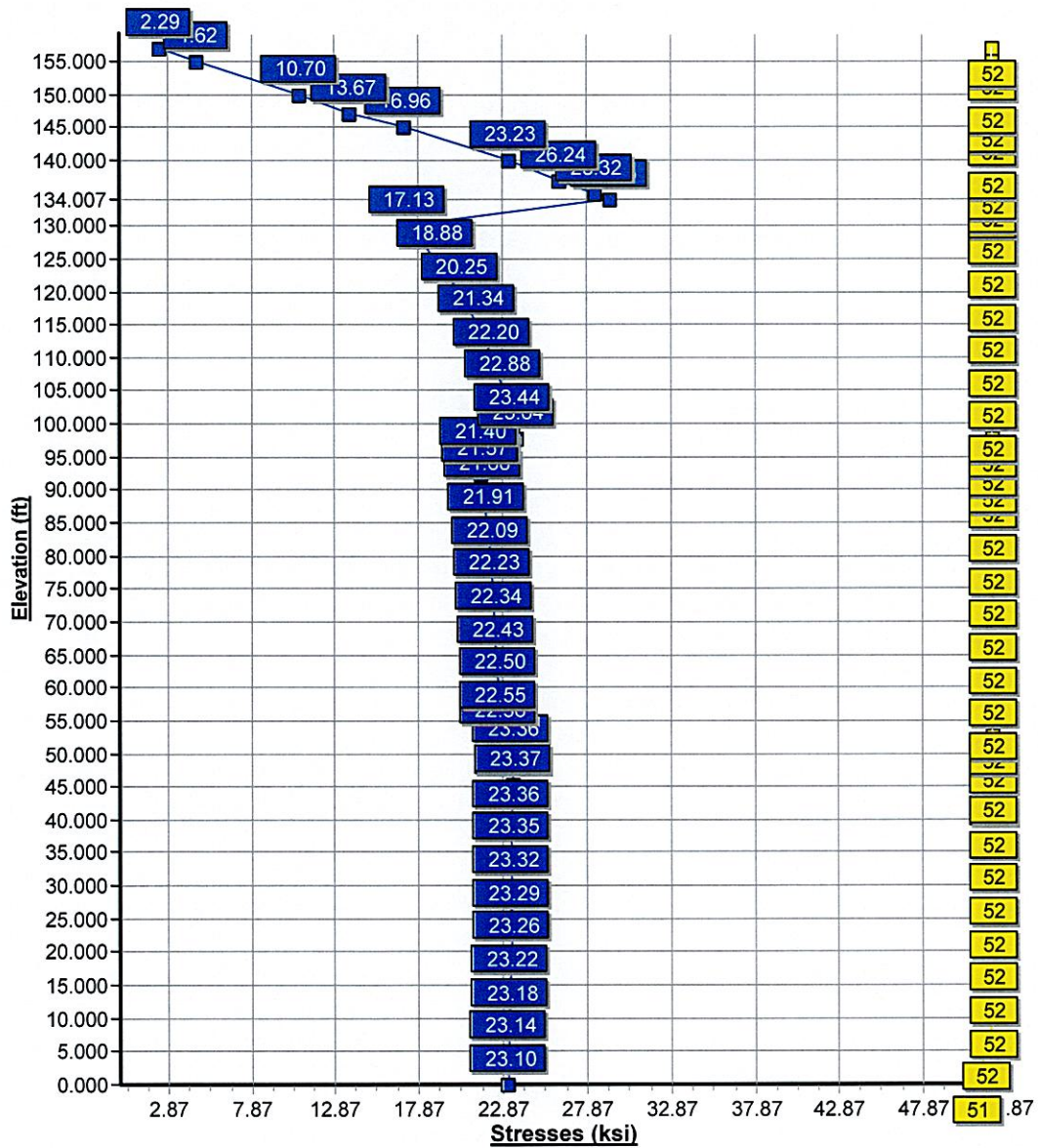
Reactions

Load Case	Moment (Kip-ft)	Shear (Kips)	Axial (Kips)
No Ice	2954.94	27.25	42.52
Ice	2444.28	21.97	49.32
Twist/Sway	912.36	8.41	42.54

Dish Deflections

Load Case	Attach Elev (ft)	Deflection (in)	Rotation (deg)
Twist/Sway	157.00	16.187	1.103

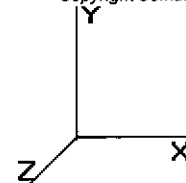
Load Case : No Ice
Max Stress 56.3% at 134.0ft



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)

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Base Elev : 0.000 (ft)

Shaft Section Properties

				Slip		Bottom							Top						
Sect	Length	Thick	Fv	Joint	Joint	Weight	Dia	Elev	Area	Ix	W/t	D/t	Dia	Elev	Area	Ix	W/t	D/t	Taper
Num	(ft)	(in)	(ksi)	Type	Len (in)	(lb)	(in)	(ft)	(sqin)	(in^4)	Ratio	Ratio	(in)	(ft)	(sqin)	(in^4)	Ratio	Ratio	(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	78.00	9.250	0.91	0.000	0.000
157.0	VHLP2-18-1WH	2	90.00	3.960	0.75	128.00	4.300	0.75	0.000	0.000
157.0	Platform w/Rail	1	2500.00	35.850	1.00	3500.00	40.460	1.00	0.000	1.500
157.0	DTMA-BRS160	3	11.00	0.664	0.88	16.29	0.855	0.88	0.000	0.000
157.0	XP4-65-R	3	20.00	3.481	0.95	45.69	4.030	0.95	0.000	0.000
147.0	Low Profile Platform	1	1600.00	25.550	1.00	2100.00	27.320	1.00	0.000	0.000
147.0	TMA's	6	17.50	0.960	0.67	23.31	1.170	0.67	0.000	0.000
147.0	LPA 185080/8CF	6	7.00	2.790	1.00	25.04	3.250	1.00	0.000	0.000
147.0	LPA-80080/4CF	6	12.00	6.057	0.71	45.10	6.654	0.71	0.000	0.000
137.0	Pipe Mount	3	53.32	3.500	1.00	84.00	5.790	1.00	0.000	0.000
137.0	742 213	3	22.05	5.132	0.72	47.24	5.844	0.72	0.000	0.000
Totals		43	5070.11			7698.36			Number of Loadings : 11	

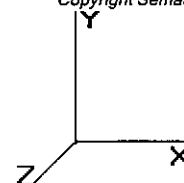
Linear Appurtenance Properties

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	157.00	(15) 1 5/8" Coax	15.00	0.00	15.00	0.00	N
0.00	157.00	(2) 1/2" Coax	0.32	0.00	0.32	0.00	N
0.00	147.00	(12) 1 5/8" Coax	12.00	0.00	12.00	0.00	N
0.00	137.00	(6) 1 5/8" Coax	6.00	0.00	6.00	0.00	N
Total Weight			4,991.24 (lb)		4,991.24 (lb)		

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)

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Base Elev : 0.000 (ft)

Segment Properties (Max Len : 5 ft)

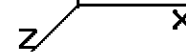
Seq Top Elev (ft)	Description	Thick (in)	Flat Dia (in)	Area (in^2)	Ix (in^4)	W/t Ratio	D/t Ratio	Fy (ksi)	Fb (ksi)	Weight (lb)
0.00		0.4375	68.000	93.816	54,105.3	26.00	155.43	65	51	0.0
5.00		0.4375	66.360	91.538	50,259.8	25.33	151.68	65	52	1,576.8
10.00		0.4375	64.720	89.261	46,601.0	24.67	147.93	65	52	1,538.0
15.00		0.4375	63.080	86.983	43,124.3	24.01	144.18	65	52	1,499.3
20.00		0.4375	61.439	84.706	39,824.9	23.35	140.43	65	52	1,460.5
25.00		0.4375	59.799	82.428	36,698.2	22.69	136.68	65	52	1,421.8
30.00		0.4375	58.159	80.151	33,739.6	22.03	132.94	65	52	1,383.1
35.00		0.4375	56.519	77.874	30,944.5	21.37	129.19	65	52	1,344.3
40.00		0.4375	54.879	75.596	28,308.2	20.71	125.44	65	52	1,305.6
45.00		0.4375	53.239	73.319	25,826.0	20.05	121.69	65	52	1,266.8
45.34	Bot - Section 2	0.4375	53.128	73.165	25,664.3	20.00	121.44	65	52	83.9
50.00		0.4375	51.599	71.041	23,493.4	19.39	117.94	65	52	2,307.6
52.67	Top - Section 1	0.4375	51.598	71.040	23,492.2	19.39	117.94	65	52	1,290.9
55.00		0.4375	50.834	69.979	22,455.0	19.08	116.19	65	52	659.0
60.00		0.4375	49.193	67.701	20,333.2	18.42	112.44	65	52	1,171.2
65.00		0.4375	47.553	65.424	18,349.5	17.75	108.69	65	52	1,132.5
70.00		0.4375	45.913	63.146	16,499.1	17.09	104.94	65	52	1,093.7
75.00		0.4375	44.273	60.869	14,777.6	16.43	101.20	65	52	1,055.0
80.00		0.4375	42.633	58.592	13,180.1	15.77	97.45	65	52	1,016.2
85.00		0.4375	40.993	56.314	11,702.2	15.11	93.70	65	52	977.5
90.00		0.4375	39.353	54.037	10,339.0	14.45	89.95	65	52	938.7
92.26	Bot - Section 3	0.4375	38.612	53.009	9,760.2	14.15	88.26	65	52	411.0
95.00		0.4375	37.713	51.759	9,086.1	13.79	86.20	65	52	917.2
97.76	Top - Section 2	0.3750	37.558	44,256	7,730.7	16.25	100.16	65	52	899.8
100.0		0.3750	36.822	43,380	7,280.8	15.90	98.19	65	52	334.5
105.0		0.3750	35.182	41,428	6,341.4	15.13	93.82	65	52	721.5
110.0		0.3750	33.542	39,476	5,486.6	14.36	89.45	65	52	688.2
115.0		0.3750	31.902	37,524	4,712.2	13.59	85.07	65	52	655.0
120.0		0.3750	30.262	35,572	4,014.4	12.82	80.70	65	52	621.8
125.0		0.3750	28.622	33,620	3,389.1	12.05	76.32	65	52	588.6
130.0		0.3750	26.982	31,667	2,832.4	11.28	71.95	65	52	555.4
130.0	Bot - Section 4	0.3750	26.979	31,665	2,831.7	11.28	71.95	65	52	0.7
134.0	Top - Section 3	0.1875	26.042	15,386	1,299.5	23.08	138.89	65	52	635.1
135.0		0.1875	25.717	15,192	1,251.0	22.77	137.15	65	52	51.7
137.0		0.1875	25.060	14,802	1,157.0	22.16	133.66	65	52	102.1
140.0		0.1875	24.076	14,216	1,025.0	21.23	128.41	65	52	148.1
145.0		0.1875	22.436	13,240	828.1	19.69	119.66	65	52	233.6
147.0		0.1875	21.780	12,850	757.0	19.07	116.16	65	52	88.8
150.0		0.1875	20.796	12,264	658.1	18.15	110.91	65	52	128.2
155.0		0.1875	19.156	11,288	513.2	16.60	102.17	65	52	200.4
157.0		0.1875	18.500	10,898	461.7	15.99	98.67	65	52	75.5

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)

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Base Elev : 0.000 (ft)

Load Case: No Ice

90.00 mph Wind with No Ice

21 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 20.736	35.04	510.00 0.650	0.00	0.00	0.000	0.00	0.00	0.0	0.0	0.0
5.00		0.00	1.00 20.736	35.04	497.69 0.650	0.00	5.00	27.992	18.19	637.6	0.0	1,576.8	0.0
10.00		0.00	1.00 20.736	35.04	485.39 0.650	0.00	5.00	27.308	17.75	622.0	0.0	1,538.0	0.0
15.00		0.00	1.00 20.736	35.04	473.09 0.650	0.00	5.00	26.625	17.31	606.5	0.0	1,499.3	0.0
20.00		0.00	1.00 20.736	35.04	460.79 0.650	0.00	5.00	25.941	16.86	590.9	0.0	1,460.5	0.0
25.00		0.00	1.00 20.736	35.04	448.49 0.650	0.00	5.00	25.258	16.42	575.3	0.0	1,421.8	0.0
30.00		0.00	1.00 20.736	35.04	436.19 0.650	0.00	5.00	24.575	15.97	559.8	0.0	1,383.1	0.0
35.00		0.00	1.01 21.088	35.63	427.47 0.650	0.00	5.00	23.891	15.53	553.4	0.0	1,344.3	0.0
40.00		0.00	1.05 21.908	37.02	423.06 0.650	0.00	5.00	23.208	15.09	558.5	0.0	1,305.6	0.0
45.00		0.00	1.09 22.657	38.29	417.38 0.650	0.00	5.00	22.525	14.64	560.6	0.0	1,266.8	0.0
45.34	Bot - Section 2	0.00	1.09 22.706	38.37	416.95 0.650	0.00	0.34	1.492	0.97	37.2	0.0	83.9	0.0
50.00		0.00	1.12 23.350	39.46	410.65 0.650	0.00	4.66	20.689	13.45	530.7	0.0	2,307.6	0.0
52.67	Top - Section 1	0.00	1.14 23.699	40.05	406.69 0.650	0.00	2.67	11.578	7.53	301.4	0.0	1,290.9	0.0
55.00		0.00	1.15 23.994	40.55	410.11 0.650	0.00	2.33	9.944	6.46	262.1	0.0	559.0	0.0
60.00		0.00	1.18 24.598	41.57	401.84 0.650	0.00	5.00	20.839	13.55	563.1	0.0	1,171.2	0.0
65.00		0.00	1.21 25.167	42.53	392.91 0.650	0.00	5.00	20.156	13.10	557.2	0.0	1,132.5	0.0
70.00		0.00	1.24 25.706	43.44	383.40 0.650	0.00	5.00	19.472	12.66	549.9	0.0	1,093.7	0.0
75.00		0.00	1.26 26.218	44.30	373.36 0.650	0.00	5.00	18.789	12.21	541.1	0.0	1,055.0	0.0
80.00		0.00	1.28 26.706	45.13	362.86 0.650	0.00	5.00	18.105	11.77	531.1	0.0	1,016.2	0.0
85.00		0.00	1.31 27.172	45.92	351.94 0.650	0.00	5.00	17.422	11.32	520.0	0.0	977.5	0.0
90.00		0.00	1.33 27.620	46.67	340.63 0.650	0.00	5.00	16.739	10.88	507.9	0.0	938.7	0.0
92.26	Bot - Section 3	0.00	1.34 27.816	47.00	335.40 0.650	0.00	2.26	7.331	4.77	224.0	0.0	411.0	0.0
95.00		0.00	1.35 28.050	47.40	328.96 0.650	0.00	2.74	8.896	5.78	274.1	0.0	917.2	0.0
97.76	Top - Section 2	0.00	1.36 28.280	47.79	322.39 0.650	0.00	2.76	8.732	5.68	271.3	0.0	899.8	0.0
100.0		0.00	1.37 28.464	48.10	323.56 0.650	0.00	2.24	6.953	4.52	217.4	0.0	334.5	0.0
105.0		0.00	1.39 28.863	48.77	311.31 0.650	0.00	5.00	15.001	9.75	475.6	0.0	721.5	0.0
110.0		0.00	1.41 29.250	49.43	298.77 0.650	0.00	5.00	14.318	9.31	460.0	0.0	688.2	0.0
115.0		0.00	1.42 29.623	50.06	285.97 0.650	0.00	5.00	13.634	8.86	443.7	0.0	655.0	0.0
120.0		0.00	1.44 29.986	50.67	272.93 0.650	0.00	5.00	12.951	8.42	426.6	0.0	621.8	0.0
125.0		0.00	1.46 30.338	51.27	259.64 0.650	0.00	5.00	12.267	7.97	408.8	0.0	588.6	0.0
130.0		0.00	1.48 30.679	51.84	246.14 0.650	0.00	5.00	11.584	7.53	390.4	0.0	555.4	0.0
130.0	Bot - Section 4	0.00	1.48 30.680	51.84	246.12 0.650	0.00	0.01	0.015	0.01	0.5	0.0	0.7	0.0
134.0	Top - Section 3	0.00	1.49 30.947	52.30	235.17 0.650	0.00	4.00	8.899	5.78	302.5	0.0	635.1	0.0
135.0		0.00	1.49 31.012	52.41	235.87 0.650	0.00	0.99	2.142	1.39	73.0	0.0	51.7	0.0
137.0	Appertunance(s)	0.00	1.50 31.143	52.63	230.33 0.650	0.00	2.00	4.231	2.75	144.8	0.0	102.1	0.0
140.0		0.00	1.51 31.336	52.95	221.97 0.650	0.00	3.00	6.142	3.99	211.4	0.0	148.1	0.0
145.0		0.00	1.52 31.652	53.49	207.89 0.650	0.00	5.00	9.690	6.30	336.9	0.0	233.6	0.0
147.0	Appertunance(s)	0.00	1.53 31.776	53.70	202.21 0.650	0.00	2.00	3.685	2.40	128.6	0.0	88.8	0.0
150.0		0.00	1.54 31.960	54.01	193.63 0.650	0.00	3.00	5.322	3.46	186.8	0.0	128.2	0.0
155.0		0.00	1.55 32.261	54.52	179.20 0.650	0.00	5.00	8.323	5.41	295.0	0.0	200.4	0.0
157.0	Appertunance(s)	0.00	1.56 32.379	54.72	173.38 0.650	0.00	2.00	3.138	2.04	111.6	0.0	75.5	0.0
Totals:							157.00			15,549.5	0.0	32,479.7	

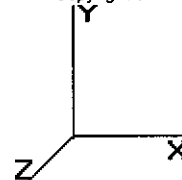
Pole : CT54XC773
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 Base Dia : 68.00 (in)
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Base Elev : 0.000 (ft)

Load Case: No Ice

90.00 mph Wind with No Ice

21 Iterations

Gust Response Factor : 1.69

Dead Load Factor : 1.00

Wind Load Factor : 1.00

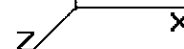
Discrete Appurtenance Segment Forces

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)
137.0	Pipe Mount	3	31.143	52.631	1.00	10.50	0.000	0.000	552.63	0.00	0.00	159.96
137.0	742 213	3	31.143	52.631	0.72	11.09	0.000	0.000	583.42	0.00	0.00	66.15
147.0	Low Profile Platform	1	31.776	53.701	1.00	25.55	0.000	0.000	1,372.07	0.00	0.00	1,600.00
147.0	TMA's	6	31.776	53.701	0.67	3.86	0.000	0.000	207.24	0.00	0.00	105.00
147.0	LPA 185080/8CF	6	31.776	53.701	1.00	16.74	0.000	0.000	898.96	0.00	0.00	42.00
147.0	LPA-80080/4CF	6	31.776	53.701	0.71	25.80	0.000	0.000	1,385.64	0.00	0.00	72.00
157.0	DB848H90E-M	9	32.379	54.721	0.91	68.47	0.000	0.000	3,746.58	0.00	0.00	252.00
157.0	VHLP2-18-1WH	2	32.379	54.721	0.75	5.94	0.000	0.000	325.04	0.00	0.00	180.00
157.0	Platform w/Rail	1	32.467	54.869	1.00	35.85	0.000	1.500	1,967.07	0.00	2,950.60	2,500.00
157.0	DTMA-BRS160	3	32.379	54.721	0.88	1.75	0.000	0.000	95.92	0.00	0.00	33.00
157.0	XP4-65-R	3	32.379	54.721	0.95	9.92	0.000	0.000	542.87	0.00	0.00	60.00
									11,677.45			5,070.11

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)

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Base Elev : 0.000 (ft)

Load Case: No Ice 90.00 mph Wind with No Ice 21 Iterations
 Gust Response Factor : 1.69
 Dead Load Factor : 1.00
 Wind Load Factor : 1.00

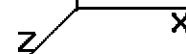
Applied Segment Forces Summary

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	637.61	1,743.39	0.00	0.00
10.00	622.04	1,704.65	0.00	0.00
15.00	606.47	1,665.90	0.00	0.00
20.00	590.91	1,627.15	0.00	0.00
25.00	575.34	1,588.40	0.00	0.00
30.00	559.77	1,549.65	0.00	0.00
35.00	553.43	1,510.91	0.00	0.00
40.00	558.51	1,472.16	0.00	0.00
45.00	560.62	1,433.41	0.00	0.00
45.34	37.22	95.12	0.00	0.00
50.00	530.67	2,462.97	0.00	0.00
52.67	301.42	1,379.83	0.00	0.00
55.00	262.11	636.67	0.00	0.00
60.00	563.10	1,337.84	0.00	0.00
65.00	557.23	1,299.09	0.00	0.00
70.00	549.86	1,260.34	0.00	0.00
75.00	541.12	1,221.59	0.00	0.00
80.00	531.14	1,182.84	0.00	0.00
85.00	520.03	1,144.10	0.00	0.00
90.00	507.85	1,105.35	0.00	0.00
92.26	224.00	486.19	0.00	0.00
95.00	274.10	1,008.59	0.00	0.00
97.76	271.26	991.66	0.00	0.00
100.0	217.39	409.24	0.00	0.00
105.0	475.63	888.06	0.00	0.00
110.0	460.03	854.84	0.00	0.00
115.0	443.68	821.63	0.00	0.00
120.0	426.59	788.42	0.00	0.00
125.0	408.82	755.21	0.00	0.00
130.0	390.40	721.99	0.00	0.00
130.0	0.50	0.94	0.00	0.00
134.0	302.54	768.39	0.00	0.00
135.0	72.98	84.78	0.00	0.00
137.0	1,280.81	394.81	0.00	0.00
140.0	211.43	230.07	0.00	0.00
145.0	336.92	370.17	0.00	0.00
147.0	3,992.53	1,962.42	0.00	0.00
150.0	186.85	174.15	0.00	0.00
155.0	294.97	276.96	0.00	0.00
157.0	6,789.10	3,131.13	0.00	2,950.60
Totals:	27,226.98	42,541.00	0.00	2,950.60

Pole : CT54XC773
 Location : Hamden, CT
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Code: TIA/EIA-222 Rev F

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Base Elev : 0.000 (ft)

Load Case: No Ice

90.00 mph Wind with No Ice

21 Iterations

Gust Response Factor : 1.69

Dead Load Factor : 1.00

Wind Load Factor : 1.00

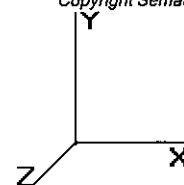
Calculated Shaft Forces and Deflections

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	-27.255	-42.522	0.000	0.000	0.000	-2,954.945	0.000	0.000	0.000	0.000
5.00	-26.671	-40.744	0.000	0.000	0.000	-2,818.673	-0.041	0.000	0.041	-0.076
10.00	-26.099	-39.004	0.000	0.000	0.000	-2,685.322	-0.163	0.000	0.163	-0.154
15.00	-25.540	-37.304	0.000	0.000	0.000	-2,554.829	-0.368	0.000	0.368	-0.234
20.00	-24.993	-35.644	0.000	0.000	0.000	-2,427.133	-0.657	0.000	0.657	-0.316
25.00	-24.458	-34.022	0.000	0.000	0.000	-2,302.171	-1.034	0.000	1.034	-0.400
30.00	-23.937	-32.440	0.000	0.000	0.000	-2,179.881	-1.500	0.000	1.500	-0.487
35.00	-23.418	-30.898	0.000	0.000	0.000	-2,060.200	-2.059	0.000	2.059	-0.577
40.00	-22.891	-29.394	0.000	0.000	0.000	-1,943.111	-2.712	0.000	2.712	-0.669
45.00	-22.338	-27.948	0.000	0.000	0.000	-1,828.655	-3.464	0.000	3.464	-0.763
45.34	-22.323	-27.835	0.000	0.000	0.000	-1,821.135	-3.518	0.000	3.518	-0.770
50.00	-21.790	-25.352	0.000	0.000	0.000	-1,717.036	-4.317	0.000	4.317	-0.862
52.67	-21.488	-23.957	0.000	0.000	0.000	-1,658.859	-4.815	0.000	4.815	-0.916
55.00	-21.246	-23.298	0.000	0.000	0.000	-1,608.792	-5.274	0.000	5.274	-0.965
60.00	-20.697	-21.934	0.000	0.000	0.000	-1,502.564	-6.338	0.000	6.338	-1.063
65.00	-20.152	-20.610	0.000	0.000	0.000	-1,399.078	-7.506	0.000	7.506	-1.165
70.00	-19.612	-19.325	0.000	0.000	0.000	-1,298.318	-8.783	0.000	8.783	-1.269
75.00	-19.077	-18.080	0.000	0.000	0.000	-1,200.262	-10.170	0.000	10.170	-1.377
80.00	-18.550	-16.874	0.000	0.000	0.000	-1,104.879	-11.672	0.000	11.672	-1.488
85.00	-18.031	-15.708	0.000	0.000	0.000	-1,012.132	-13.293	0.000	13.293	-1.602
90.00	-17.513	-14.592	0.000	0.000	0.000	-921.980	-15.034	0.000	15.034	-1.720
92.26	-17.290	-14.094	0.000	0.000	0.000	-882.460	-15.861	0.000	15.861	-1.776
95.00	-17.000	-13.074	0.000	0.000	0.000	-835.029	-16.901	0.000	16.901	-1.845
97.76	-16.709	-12.073	0.000	0.000	0.000	-788.167	-17.987	0.000	17.987	-1.915
100.0	-16.499	-11.643	0.000	0.000	0.000	-750.682	-18.901	0.000	18.901	-1.973
105.0	-16.018	-10.733	0.000	0.000	0.000	-668.190	-21.042	0.000	21.042	-2.111
110.0	-15.550	-9.858	0.000	0.000	0.000	-588.101	-23.330	0.000	23.330	-2.252
115.0	-15.096	-9.017	0.000	0.000	0.000	-510.351	-25.765	0.000	25.765	-2.395
120.0	-14.656	-8.212	0.000	0.000	0.000	-434.872	-28.351	0.000	28.351	-2.537
125.0	-14.232	-7.441	0.000	0.000	0.000	-361.591	-31.085	0.000	31.085	-2.678
130.0	-13.815	-6.723	0.000	0.000	0.000	-290.433	-33.964	0.000	33.964	-2.815
130.0	-13.821	-6.709	0.000	0.000	0.000	-290.341	-33.968	0.000	33.968	-2.816
134.0	-13.487	-5.941	0.000	0.000	0.000	-235.058	-36.373	0.000	36.373	-2.921
135.0	-13.416	-5.846	0.000	0.000	0.000	-221.661	-36.984	0.000	36.984	-2.948
137.0	-12.128	-5.494	0.000	0.000	0.000	-194.828	-38.240	0.000	38.240	-3.042
140.0	-11.919	-5.243	0.000	0.000	0.000	-158.446	-40.195	0.000	40.195	-3.173
145.0	-11.571	-4.870	0.000	0.000	0.000	-98.854	-43.619	0.000	43.619	-3.351
147.0	-7.473	-3.138	0.000	0.000	0.000	-75.712	-45.037	0.000	45.037	-3.411
150.0	-7.280	-2.965	0.000	0.000	0.000	-53.293	-47.204	0.000	47.204	-3.484
155.0	-6.971	-2.702	0.000	0.000	0.000	-16.892	-50.899	0.000	50.899	-3.560
157.0	-6.789	0.000	0.000	0.000	0.000	-2.951	-52.393	0.000	52.393	-3.571

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)

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Base Elev : 0.000 (ft)

Load Case: No Ice

90.00 mph Wind with No Ice

21 Iterations

Gust Response Factor : 1.69

Dead Load Factor : 1.00

Wind Load Factor : 1.00

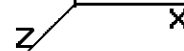
Calculated Stresses

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	0.45	0.59	0.00	0.00	0.00	22.63	23.10	51.0	0.0	0.453
5.00	0.45	0.59	0.00	0.00	0.00	22.67	23.14	51.5	0.0	0.449
10.00	0.44	0.59	0.00	0.00	0.00	22.72	23.18	52.0	0.0	0.446
15.00	0.43	0.59	0.00	0.00	0.00	22.77	23.22	52.0	0.0	0.447
20.00	0.42	0.59	0.00	0.00	0.00	22.81	23.26	52.0	0.0	0.447
25.00	0.41	0.60	0.00	0.00	0.00	22.86	23.29	52.0	0.0	0.448
30.00	0.40	0.60	0.00	0.00	0.00	22.89	23.32	52.0	0.0	0.449
35.00	0.40	0.61	0.00	0.00	0.00	22.93	23.35	52.0	0.0	0.449
40.00	0.39	0.61	0.00	0.00	0.00	22.95	23.36	52.0	0.0	0.449
45.00	0.38	0.61	0.00	0.00	0.00	22.97	23.37	52.0	0.0	0.450
45.34	0.38	0.61	0.00	0.00	0.00	22.97	23.37	52.0	0.0	0.450
50.00	0.36	0.62	0.00	0.00	0.00	22.98	23.36	52.0	0.0	0.449
52.67	0.34	0.61	0.00	0.00	0.00	22.20	22.56	52.0	0.0	0.434
55.00	0.33	0.61	0.00	0.00	0.00	22.19	22.55	52.0	0.0	0.434
60.00	0.32	0.62	0.00	0.00	0.00	22.15	22.50	52.0	0.0	0.433
65.00	0.32	0.62	0.00	0.00	0.00	22.09	22.43	52.0	0.0	0.432
70.00	0.31	0.63	0.00	0.00	0.00	22.01	22.34	52.0	0.0	0.430
75.00	0.30	0.63	0.00	0.00	0.00	21.91	22.23	52.0	0.0	0.428
80.00	0.29	0.64	0.00	0.00	0.00	21.77	22.09	52.0	0.0	0.425
85.00	0.28	0.65	0.00	0.00	0.00	21.60	21.91	52.0	0.0	0.422
90.00	0.27	0.65	0.00	0.00	0.00	21.38	21.68	52.0	0.0	0.417
92.26	0.27	0.66	0.00	0.00	0.00	21.27	21.57	52.0	0.0	0.415
95.00	0.25	0.66	0.00	0.00	0.00	21.12	21.40	52.0	0.0	0.412
97.76	0.27	0.76	0.00	0.00	0.00	23.33	23.64	52.0	0.0	0.455
100.00	0.27	0.77	0.00	0.00	0.00	23.13	23.44	52.0	0.0	0.451
105.00	0.26	0.78	0.00	0.00	0.00	22.59	22.88	52.0	0.0	0.440
110.00	0.25	0.79	0.00	0.00	0.00	21.90	22.20	52.0	0.0	0.427
115.00	0.24	0.81	0.00	0.00	0.00	21.05	21.34	52.0	0.0	0.411
120.00	0.23	0.83	0.00	0.00	0.00	19.97	20.25	52.0	0.0	0.390
125.00	0.22	0.85	0.00	0.00	0.00	18.61	18.88	52.0	0.0	0.363
130.00	0.21	0.88	0.00	0.00	0.00	16.86	17.14	52.0	0.0	0.330
130.01	0.21	0.88	0.00	0.00	0.00	16.85	17.13	52.0	0.0	0.330
134.01	0.39	1.77	0.00	0.00	0.00	28.70	29.25	52.0	0.0	0.563
135.00	0.38	1.78	0.00	0.00	0.00	27.76	28.32	52.0	0.0	0.545
137.00	0.37	1.65	0.00	0.00	0.00	25.71	26.24	52.0	0.0	0.505
140.00	0.37	1.69	0.00	0.00	0.00	22.67	23.23	52.0	0.0	0.447
145.00	0.37	1.76	0.00	0.00	0.00	16.32	16.96	52.0	0.0	0.326
147.00	0.24	1.17	0.00	0.00	0.00	13.27	13.67	52.0	0.0	0.263
150.00	0.24	1.20	0.00	0.00	0.00	10.26	10.70	52.0	0.0	0.206
155.00	0.24	1.24	0.00	0.00	0.00	3.84	4.62	52.0	0.0	0.089
157.00	0.00	1.26	0.00	0.00	0.00	0.72	2.29	52.0	0.0	0.044

Pole : CT54XC773
 Location : Hamden, CT
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Base Elev : 0.000 (ft)

Load Case: Ice

77.94 mph Wind with Ice

21 Iterations

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

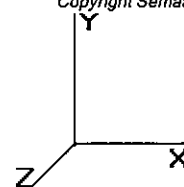
Shaft Segment Forces

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 15.551	26.28 441.65	0.650		0.50	0.00	0.000	0.00	0.0	0.0	0.0
5.00		0.00	1.00 15.551	26.28 431.00	0.650		0.50	5.00	28.408	18.47	485.3	206.3	1,783.1
10.00		0.00	1.00 15.551	26.28 420.35	0.650		0.50	5.00	27.725	18.02	473.6	201.3	1,739.3
15.00		0.00	1.00 15.551	26.28 409.70	0.650		0.50	5.00	27.042	17.58	461.9	196.2	1,695.5
20.00		0.00	1.00 15.551	26.28 399.04	0.650		0.50	5.00	26.358	17.13	450.3	191.1	1,651.7
25.00		0.00	1.00 15.551	26.28 388.39	0.650		0.50	5.00	25.675	16.69	438.6	186.1	1,607.9
30.00		0.00	1.00 15.551	26.28 377.74	0.650		0.50	5.00	24.991	16.24	426.9	181.0	1,564.1
35.00		0.00	1.01 15.815	26.72 370.19	0.650		0.50	5.00	24.308	15.80	422.3	175.9	1,520.3
40.00		0.00	1.05 16.430	27.76 366.37	0.650		0.50	5.00	23.625	15.36	426.4	170.9	1,476.4
45.00		0.00	1.09 16.992	28.71 361.45	0.650		0.50	5.00	22.941	14.91	428.2	165.8	1,432.6
45.34	Bot - Section 2	0.00	1.09 17.028	28.77 361.08	0.650		0.50	0.34	1.520	0.99	28.4	11.1	95.0
50.00		0.00	1.12 17.511	29.59 355.62	0.650		0.50	4.66	21.078	13.70	405.5	152.5	2,460.0
52.67	Top - Section 1	0.00	1.14 17.774	30.03 352.20	0.650		0.50	2.67	11.800	7.67	230.4	85.8	1,376.7
55.00		0.00	1.15 17.995	30.41 355.15	0.650		0.50	2.33	10.139	6.59	200.4	73.8	632.8
60.00		0.00	1.18 18.448	31.17 347.99	0.650		0.50	5.00	21.256	13.82	430.7	153.3	1,324.6
65.00		0.00	1.21 18.874	31.89 340.26	0.650		0.50	5.00	20.572	13.37	426.5	148.3	1,280.8
70.00		0.00	1.24 19.278	32.58 332.02	0.650		0.50	5.00	19.889	12.93	421.2	143.2	1,237.0
75.00		0.00	1.26 19.662	33.22 323.33	0.650		0.50	5.00	19.205	12.48	414.8	138.2	1,193.1
80.00		0.00	1.28 20.028	33.84 314.24	0.650		0.50	5.00	18.522	12.04	407.5	133.1	1,149.3
85.00		0.00	1.31 20.378	34.43 304.78	0.650		0.50	5.00	17.839	11.60	399.3	128.0	1,105.5
90.00		0.00	1.33 20.714	35.00 294.98	0.650		0.50	5.00	17.155	11.15	390.3	123.0	1,061.7
92.26	Bot - Section 3	0.00	1.34 20.861	35.25 290.46	0.650		0.50	2.26	7.519	4.89	172.3	54.5	465.5
95.00		0.00	1.35 21.036	35.55 284.88	0.650		0.50	2.74	9.124	5.93	210.8	66.0	983.1
97.76	Top - Section 2	0.00	1.36 21.209	35.84 279.19	0.650		0.50	2.76	8.962	5.83	208.8	64.7	964.6
100.0		0.00	1.37 21.347	36.07 280.20	0.650		0.50	2.24	7.139	4.64	167.4	51.7	386.2
105.0		0.00	1.39 21.646	36.58 269.59	0.650		0.50	5.00	15.418	10.02	366.6	110.1	831.6
110.0		0.00	1.41 21.936	37.07 258.74	0.650		0.50	5.00	14.734	9.58	355.0	105.0	793.3
115.0		0.00	1.42 22.216	37.54 247.65	0.650		0.50	5.00	14.051	9.13	342.9	100.0	755.0
120.0		0.00	1.44 22.488	38.00 236.35	0.650		0.50	5.00	13.367	8.69	330.2	94.9	716.7
125.0		0.00	1.46 22.752	38.45 224.85	0.650		0.50	5.00	12.684	8.24	317.0	89.9	678.5
130.0		0.00	1.48 23.008	38.88 213.16	0.650		0.50	5.00	12.001	7.80	303.3	84.8	640.2
130.0	Bot - Section 4	0.00	1.48 23.009	38.88 213.14	0.650		0.50	0.01	0.016	0.01	0.4	0.1	0.8
134.0	Top - Section 3	0.00	1.49 23.209	39.22 203.66	0.650		0.50	4.00	9.233	6.00	235.4	65.5	700.6
135.0		0.00	1.49 23.258	39.30 204.26	0.650		0.50	0.99	2.225	1.45	56.8	16.1	67.8
137.0	Appertunance(s)	0.00	1.50 23.356	39.47 199.47	0.650		0.50	2.00	4.398	2.86	112.8	31.5	133.6
140.0		0.00	1.51 23.501	39.71 192.23	0.650		0.50	3.00	6.392	4.15	165.0	45.5	193.6
145.0		0.00	1.52 23.737	40.11 180.03	0.650		0.50	5.00	10.107	6.57	263.5	70.8	304.3
147.0	Appertunance(s)	0.00	1.53 23.830	40.27 175.11	0.650		0.50	2.00	3.851	2.50	100.8	27.5	116.3
150.0		0.00	1.54 23.968	40.50 167.68	0.650		0.50	3.00	5.572	3.62	146.7	39.4	167.6
155.0		0.00	1.55 24.194	40.88 155.18	0.650		0.50	5.00	8.740	5.68	232.3	60.7	261.0
157.0	Appertunance(s)	0.00	1.56 24.283	41.03 150.14	0.650		0.50	2.00	3.305	2.15	88.2	23.5	98.9
Totals:								157.00			11,945.1	4,167.1	36,646.8

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)

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Base Elev : 0.000 (ft)

Load Case: Ice

77.94 mph Wind with Ice

21 Iterations

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

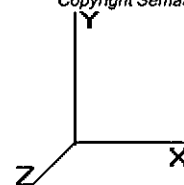
Discrete Appurtenance Segment Forces

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)
137.0	Pipe Mount	3	23.356	39.471	1.00	17.37	0.000	0.000	685.61	0.00	0.00	252.00
137.0	742 213	3	23.356	39.471	0.72	12.62	0.000	0.000	498.24	0.00	0.00	141.72
147.0	Low Profile Platform	1	23.830	40.273	1.00	27.32	0.000	0.000	1,100.27	0.00	0.00	2,100.00
147.0	TMA's	6	23.830	40.273	0.67	4.70	0.000	0.000	189.42	0.00	0.00	139.86
147.0	LPA 185080/8CF	6	23.830	40.273	1.00	19.50	0.000	0.000	785.33	0.00	0.00	150.24
147.0	LPA-80080/4CF	6	23.830	40.273	0.71	28.35	0.000	0.000	1,141.59	0.00	0.00	270.60
157.0	DB848H90E-M	9	24.283	41.038	0.91	75.76	0.000	0.000	3,108.93	0.00	0.00	702.00
157.0	VHLP2-18-1WH	2	24.283	41.038	0.75	6.45	0.000	0.000	264.69	0.00	0.00	256.00
157.0	Platform w/Rail	1	24.349	41.150	1.00	40.46	0.000	1.500	1,664.91	0.00	2,497.37	3,500.00
157.0	DTMA-BRS160	3	24.283	41.038	0.88	2.26	0.000	0.000	92.63	0.00	0.00	48.87
157.0	XP4-65-R	3	24.283	41.038	0.95	11.49	0.000	0.000	471.34	0.00	0.00	137.07
									10,002.98			7,698.36

Pole : CT54XC773
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Base Elev : 0.000 (ft)

Load Case: Ice

77.94 mph Wind with Ice

21 Iterations

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

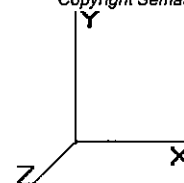
Applied Segment Forces Summary

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	485.29	1,949.71	0.00	0.00
10.00	473.62	1,905.90	0.00	0.00
15.00	461.95	1,862.09	0.00	0.00
20.00	450.27	1,818.28	0.00	0.00
25.00	438.60	1,774.47	0.00	0.00
30.00	426.92	1,730.66	0.00	0.00
35.00	422.29	1,686.85	0.00	0.00
40.00	426.38	1,643.04	0.00	0.00
45.00	428.21	1,599.23	0.00	0.00
45.34	28.43	106.26	0.00	0.00
50.00	405.45	2,615.43	0.00	0.00
52.67	230.39	1,465.68	0.00	0.00
55.00	200.41	710.48	0.00	0.00
60.00	430.74	1,491.18	0.00	0.00
65.00	426.54	1,447.37	0.00	0.00
70.00	421.19	1,403.56	0.00	0.00
75.00	414.82	1,359.75	0.00	0.00
80.00	407.50	1,315.94	0.00	0.00
85.00	399.32	1,272.13	0.00	0.00
90.00	390.35	1,228.32	0.00	0.00
92.26	172.30	540.66	0.00	0.00
95.00	210.85	1,074.55	0.00	0.00
97.76	208.78	1,056.41	0.00	0.00
100.0	167.42	460.91	0.00	0.00
105.0	366.61	998.16	0.00	0.00
110.0	355.04	959.89	0.00	0.00
115.0	342.90	921.61	0.00	0.00
120.0	330.22	883.34	0.00	0.00
125.0	317.01	845.07	0.00	0.00
130.0	303.31	806.79	0.00	0.00
130.0	0.39	1.05	0.00	0.00
134.0	235.39	833.91	0.00	0.00
135.0	56.85	100.85	0.00	0.00
137.0	1,296.69	593.97	0.00	0.00
140.0	165.01	275.58	0.00	0.00
145.0	263.54	440.95	0.00	0.00
147.0	3,317.44	2,831.62	0.00	0.00
150.0	146.71	213.58	0.00	0.00
155.0	232.29	337.61	0.00	0.00
157.0	5,690.66	4,773.53	0.00	2,497.37
Totals:	21,948.09	49,336.35	0.00	2,497.37

Pole : CT54XC773
 Location : Hamden, CT
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 Taper : 0.328026 (in/ft)

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Base Elev : 0.000 (ft)

Load Case: Ice

77.94 mph Wind with Ice

21 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	-21.975	-49.324	0.000	0.000	0.000	-2,444.285	0.000	0.000	0.000	0.000
5.00	-21.541	-47.350	0.000	0.000	0.000	-2,334.413	-0.034	0.000	0.034	-0.063
10.00	-21.116	-45.421	0.000	0.000	0.000	-2,226.709	-0.135	0.000	0.135	-0.127
15.00	-20.700	-43.536	0.000	0.000	0.000	-2,121.130	-0.304	0.000	0.304	-0.194
20.00	-20.293	-41.695	0.000	0.000	0.000	-2,017.631	-0.544	0.000	0.544	-0.262
25.00	-19.895	-39.898	0.000	0.000	0.000	-1,916.167	-0.857	0.000	0.857	-0.332
30.00	-19.506	-38.146	0.000	0.000	0.000	-1,816.694	-1.244	0.000	1.244	-0.405
35.00	-19.119	-36.437	0.000	0.000	0.000	-1,719.167	-1.708	0.000	1.708	-0.479
40.00	-18.725	-34.772	0.000	0.000	0.000	-1,623.575	-2.251	0.000	2.251	-0.556
45.00	-18.304	-33.164	0.000	0.000	0.000	-1,529.952	-2.876	0.000	2.876	-0.635
45.34	-18.299	-33.045	0.000	0.000	0.000	-1,523.790	-2.921	0.000	2.921	-0.641
50.00	-17.895	-30.415	0.000	0.000	0.000	-1,438.458	-3.586	0.000	3.586	-0.717
52.67	-17.667	-28.940	0.000	0.000	0.000	-1,390.681	-4.001	0.000	4.001	-0.763
55.00	-17.488	-28.213	0.000	0.000	0.000	-1,349.517	-4.383	0.000	4.383	-0.804
60.00	-17.074	-26.703	0.000	0.000	0.000	-1,262.081	-5.270	0.000	5.270	-0.887
65.00	-16.662	-25.238	0.000	0.000	0.000	-1,176.713	-6.245	0.000	6.245	-0.972
70.00	-16.253	-23.817	0.000	0.000	0.000	-1,093.403	-7.310	0.000	7.310	-1.060
75.00	-15.849	-22.440	0.000	0.000	0.000	-1,012.137	-8.469	0.000	8.469	-1.151
80.00	-15.449	-21.107	0.000	0.000	0.000	-932.896	-9.725	0.000	9.725	-1.244
85.00	-15.055	-19.818	0.000	0.000	0.000	-855.654	-11.080	0.000	11.080	-1.341
90.00	-14.658	-18.581	0.000	0.000	0.000	-780.381	-12.538	0.000	12.538	-1.440
92.26	-14.489	-18.032	0.000	0.000	0.000	-747.303	-13.230	0.000	13.230	-1.488
95.00	-14.267	-16.949	0.000	0.000	0.000	-707.556	-14.102	0.000	14.102	-1.546
97.76	-14.044	-15.886	0.000	0.000	0.000	-668.227	-15.013	0.000	15.013	-1.605
100.0	-13.887	-15.409	0.000	0.000	0.000	-636.721	-15.779	0.000	15.779	-1.655
105.0	-13.520	-14.394	0.000	0.000	0.000	-567.288	-17.576	0.000	17.576	-1.772
110.0	-13.163	-13.418	0.000	0.000	0.000	-499.688	-19.496	0.000	19.496	-1.892
115.0	-12.815	-12.482	0.000	0.000	0.000	-433.874	-21.543	0.000	21.543	-2.013
120.0	-12.478	-11.585	0.000	0.000	0.000	-369.798	-23.717	0.000	23.717	-2.134
125.0	-12.151	-10.727	0.000	0.000	0.000	-307.409	-26.018	0.000	26.018	-2.254
130.0	-11.825	-9.922	0.000	0.000	0.000	-246.655	-28.442	0.000	28.442	-2.370
130.0	-11.833	-9.911	0.000	0.000	0.000	-246.577	-28.446	0.000	28.446	-2.371
134.0	-11.571	-9.077	0.000	0.000	0.000	-199.246	-30.471	0.000	30.471	-2.460
135.0	-11.518	-8.968	0.000	0.000	0.000	-187.752	-30.985	0.000	30.985	-2.483
137.0	-10.211	-8.415	0.000	0.000	0.000	-164.716	-32.043	0.000	32.043	-2.563
140.0	-10.053	-8.123	0.000	0.000	0.000	-134.084	-33.691	0.000	33.691	-2.673
145.0	-9.781	-7.679	0.000	0.000	0.000	-83.822	-36.577	0.000	36.577	-2.824
147.0	-6.332	-5.010	0.000	0.000	0.000	-64.260	-37.772	0.000	37.772	-2.875
150.0	-6.180	-4.797	0.000	0.000	0.000	-45.264	-39.599	0.000	39.599	-2.937
155.0	-5.933	-4.468	0.000	0.000	0.000	-14.364	-42.715	0.000	42.715	-3.001
157.0	-5.691	0.000	0.000	0.000	0.000	-2.497	-43.975	0.000	43.975	-3.011

Pole : CT54XC773
 Location : Hamden, CT
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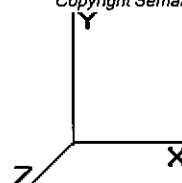
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Base Elev : 0.000 (ft)



Load Case: Ice

77.94 mph Wind with Ice

21 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	0.53	0.47	0.00	0.00	0.00	18.72	19.26	51.0	0.0	0.378
5.00	0.52	0.47	0.00	0.00	0.00	18.78	19.31	51.5	0.0	0.375
10.00	0.51	0.48	0.00	0.00	0.00	18.84	19.37	52.0	0.0	0.373
15.00	0.50	0.48	0.00	0.00	0.00	18.90	19.42	52.0	0.0	0.374
20.00	0.49	0.48	0.00	0.00	0.00	18.96	19.47	52.0	0.0	0.375
25.00	0.48	0.49	0.00	0.00	0.00	19.02	19.53	52.0	0.0	0.376
30.00	0.48	0.49	0.00	0.00	0.00	19.08	19.57	52.0	0.0	0.377
35.00	0.47	0.49	0.00	0.00	0.00	19.13	19.62	52.0	0.0	0.377
40.00	0.46	0.50	0.00	0.00	0.00	19.18	19.66	52.0	0.0	0.378
45.00	0.45	0.50	0.00	0.00	0.00	19.22	19.69	52.0	0.0	0.379
45.34	0.45	0.50	0.00	0.00	0.00	19.22	19.69	52.0	0.0	0.379
50.00	0.43	0.51	0.00	0.00	0.00	19.25	19.70	52.0	0.0	0.379
52.67	0.41	0.50	0.00	0.00	0.00	18.61	19.04	52.0	0.0	0.366
55.00	0.40	0.50	0.00	0.00	0.00	18.61	19.04	52.0	0.0	0.366
60.00	0.39	0.51	0.00	0.00	0.00	18.60	19.02	52.0	0.0	0.366
65.00	0.39	0.51	0.00	0.00	0.00	18.58	18.99	52.0	0.0	0.365
70.00	0.38	0.52	0.00	0.00	0.00	18.54	18.94	52.0	0.0	0.364
75.00	0.37	0.52	0.00	0.00	0.00	18.47	18.87	52.0	0.0	0.363
80.00	0.36	0.53	0.00	0.00	0.00	18.38	18.77	52.0	0.0	0.361
85.00	0.35	0.54	0.00	0.00	0.00	18.26	18.64	52.0	0.0	0.359
90.00	0.34	0.55	0.00	0.00	0.00	18.10	18.46	52.0	0.0	0.355
92.26	0.34	0.55	0.00	0.00	0.00	18.01	18.38	52.0	0.0	0.354
95.00	0.33	0.56	0.00	0.00	0.00	17.89	18.25	52.0	0.0	0.351
97.76	0.36	0.64	0.00	0.00	0.00	19.78	20.17	52.0	0.0	0.388
100.00	0.36	0.65	0.00	0.00	0.00	19.62	20.01	52.0	0.0	0.385
105.00	0.35	0.66	0.00	0.00	0.00	19.18	19.56	52.0	0.0	0.376
110.00	0.34	0.67	0.00	0.00	0.00	18.61	18.99	52.0	0.0	0.365
115.00	0.33	0.69	0.00	0.00	0.00	17.90	18.27	52.0	0.0	0.351
120.00	0.33	0.71	0.00	0.00	0.00	16.98	17.35	52.0	0.0	0.334
125.00	0.32	0.73	0.00	0.00	0.00	15.82	16.19	52.0	0.0	0.311
130.00	0.31	0.75	0.00	0.00	0.00	14.32	14.69	52.0	0.0	0.283
130.01	0.31	0.75	0.00	0.00	0.00	14.31	14.68	52.0	0.0	0.283
134.01	0.59	1.52	0.00	0.00	0.00	24.33	25.06	52.0	0.0	0.482
135.00	0.59	1.53	0.00	0.00	0.00	23.52	24.25	52.0	0.0	0.467
137.00	0.57	1.39	0.00	0.00	0.00	21.74	22.43	52.0	0.0	0.432
140.00	0.57	1.43	0.00	0.00	0.00	19.19	19.91	52.0	0.0	0.383
145.00	0.58	1.49	0.00	0.00	0.00	13.84	14.65	52.0	0.0	0.282
147.00	0.39	0.99	0.00	0.00	0.00	11.27	11.78	52.0	0.0	0.227
150.00	0.39	1.02	0.00	0.00	0.00	8.71	9.27	52.0	0.0	0.178
155.00	0.40	1.06	0.00	0.00	0.00	3.27	4.10	52.0	0.0	0.079
157.00	0.00	1.05	0.00	0.00	0.00	0.61	1.92	52.0	0.0	0.037

Pole : CT54XC773
 Location : Hamden, CT
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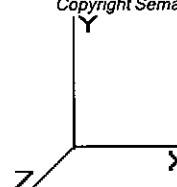
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Base Elev : 0.000 (ft)



Load Case: Twist/Sway

50.00 mph Wind with No Ice

21 Iterations

Gust Response Factor : 1.69

Dead Load Factor : 1.00

Wind Load Factor : 1.00

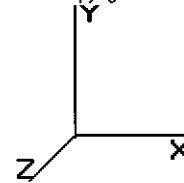
Shaft Segment Forces

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	283.33	0.650	0.00	0.00	0.000	0.00	0.0	0.0	
5.00		0.00	1.00	6.400	10.81	276.49	0.650	0.00	5.00	27.992	18.19	196.8	0.0	1,576.8
10.00		0.00	1.00	6.400	10.81	269.66	0.650	0.00	5.00	27.308	17.75	192.0	0.0	1,538.0
15.00		0.00	1.00	6.400	10.81	262.83	0.650	0.00	5.00	26.625	17.31	187.2	0.0	1,499.3
20.00		0.00	1.00	6.400	10.81	255.99	0.650	0.00	5.00	25.941	16.86	182.4	0.0	1,460.5
25.00		0.00	1.00	6.400	10.81	249.16	0.650	0.00	5.00	25.258	16.42	177.6	0.0	1,421.8
30.00		0.00	1.00	6.400	10.81	242.33	0.650	0.00	5.00	24.575	15.97	172.8	0.0	1,383.1
35.00		0.00	1.01	6.509	10.99	237.48	0.650	0.00	5.00	23.891	15.53	170.8	0.0	1,344.3
40.00		0.00	1.05	6.762	11.42	235.03	0.650	0.00	5.00	23.208	15.09	172.4	0.0	1,305.6
45.00		0.00	1.09	6.993	11.81	231.87	0.650	0.00	5.00	22.525	14.64	173.0	0.0	1,266.8
45.34	Bot - Section 2	0.00	1.09	7.008	11.84	231.64	0.650	0.00	0.34	1.492	0.97	11.5	0.0	83.9
50.00		0.00	1.12	7.207	12.17	228.14	0.650	0.00	4.66	20.689	13.45	163.8	0.0	2,307.6
52.67	Top - Section 1	0.00	1.14	7.315	12.36	225.94	0.650	0.00	2.67	11.578	7.53	93.0	0.0	1,290.9
55.00		0.00	1.15	7.406	12.51	227.84	0.650	0.00	2.33	9.944	6.46	80.9	0.0	559.0
60.00		0.00	1.18	7.592	12.83	223.24	0.650	0.00	5.00	20.839	13.55	173.8	0.0	1,171.2
65.00		0.00	1.21	7.768	13.12	218.28	0.650	0.00	5.00	20.156	13.10	172.0	0.0	1,132.5
70.00		0.00	1.24	7.934	13.40	213.00	0.650	0.00	5.00	19.472	12.66	169.7	0.0	1,093.7
75.00		0.00	1.26	8.092	13.67	207.42	0.650	0.00	5.00	18.789	12.21	167.0	0.0	1,055.0
80.00		0.00	1.28	8.242	13.93	201.59	0.650	0.00	5.00	18.105	11.77	163.9	0.0	1,016.2
85.00		0.00	1.31	8.387	14.17	195.52	0.650	0.00	5.00	17.422	11.32	160.5	0.0	977.5
90.00		0.00	1.33	8.525	14.40	189.23	0.650	0.00	5.00	16.739	10.88	156.7	0.0	938.7
92.26	Bot - Section 3	0.00	1.34	8.585	14.50	186.33	0.650	0.00	2.26	7.331	4.77	69.1	0.0	411.0
95.00		0.00	1.35	8.657	14.63	182.75	0.650	0.00	2.74	8.896	5.78	84.6	0.0	917.2
97.76	Top - Section 2	0.00	1.36	8.728	14.75	179.10	0.650	0.00	2.76	8.732	5.68	83.7	0.0	899.8
100.0		0.00	1.37	8.785	14.84	179.75	0.650	0.00	2.24	6.953	4.52	67.1	0.0	334.5
105.0		0.00	1.39	8.908	15.05	172.95	0.650	0.00	5.00	15.001	9.75	146.8	0.0	721.5
110.0		0.00	1.41	9.028	15.25	165.98	0.650	0.00	5.00	14.318	9.31	142.0	0.0	688.2
115.0		0.00	1.42	9.143	15.45	158.87	0.650	0.00	5.00	13.634	8.86	136.9	0.0	655.0
120.0		0.00	1.44	9.255	15.64	151.62	0.650	0.00	5.00	12.951	8.42	131.7	0.0	621.8
125.0		0.00	1.46	9.363	15.82	144.24	0.650	0.00	5.00	12.267	7.97	126.2	0.0	588.6
130.0		0.00	1.48	9.469	16.00	136.74	0.650	0.00	5.00	11.584	7.53	120.5	0.0	555.4
130.0	Bot - Section 4	0.00	1.48	9.469	16.00	136.73	0.650	0.00	0.01	0.015	0.01	0.2	0.0	0.7
134.0	Top - Section 3	0.00	1.49	9.551	16.14	130.65	0.650	0.00	4.00	8.899	5.78	93.4	0.0	635.1
135.0		0.00	1.49	9.572	16.17	131.04	0.650	0.00	0.99	2.142	1.39	22.5	0.0	51.7
137.0	Appertunance(s)	0.00	1.50	9.612	16.24	127.96	0.650	0.00	2.00	4.231	2.75	44.7	0.0	102.1
140.0		0.00	1.51	9.672	16.34	123.32	0.650	0.00	3.00	6.142	3.99	65.3	0.0	148.1
145.0		0.00	1.52	9.769	16.51	115.49	0.650	0.00	5.00	9.690	6.30	104.0	0.0	233.6
147.0	Appertunance(s)	0.00	1.53	9.807	16.57	112.34	0.650	0.00	2.00	3.685	2.40	39.7	0.0	88.8
150.0		0.00	1.54	9.864	16.67	107.57	0.650	0.00	3.00	5.322	3.46	57.7	0.0	128.2
155.0		0.00	1.55	9.957	16.82	99.556	0.650	0.00	5.00	8.323	5.41	91.0	0.0	200.4
157.0	Appertunance(s)	0.00	1.56	9.994	16.88	96.323	0.650	0.00	2.00	3.138	2.04	34.4	0.0	75.5
Totals:								157.00			4,799.2	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)

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Base Elev : 0.000 (ft)

Load Case: Twist/Sway

50.00 mph Wind with No Ice

21 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)
137.0	Pipe Mount	3	9.612	16.244	1.00	10.50	0.000	0.000	170.56	0.00	0.00	159.96
137.0	742 213	3	9.612	16.244	0.72	11.09	0.000	0.000	180.07	0.00	0.00	66.15
147.0	Low Profile Platform	1	9.807	16.574	1.00	25.55	0.000	0.000	423.48	0.00	0.00	1,600.00
147.0	TMA's	6	9.807	16.574	0.67	3.86	0.000	0.000	63.96	0.00	0.00	105.00
147.0	LPA 185080/8CF	6	9.807	16.574	1.00	16.74	0.000	0.000	277.46	0.00	0.00	42.00
147.0	LPA-80080/4CF	6	9.807	16.574	0.71	25.80	0.000	0.000	427.67	0.00	0.00	72.00
157.0	DB848H90E-M	9	9.994	16.889	0.91	68.47	0.000	0.000	1,156.35	0.00	0.00	252.00
157.0	VHLP2-18-1WH	2	9.994	16.889	0.75	5.94	0.000	0.000	100.32	0.00	0.00	180.00
157.0	Platform w/Rail	1	10.021	16.935	1.00	35.85	0.000	1.500	607.12	0.00	910.68	2,500.00
157.0	DTMA-BRS160	3	9.994	16.889	0.88	1.75	0.000	0.000	29.61	0.00	0.00	33.00
157.0	XP4-65-R	3	9.994	16.889	0.95	9.92	0.000	0.000	167.55	0.00	0.00	60.00
									3,604.15			5,070.11

Pole : CT54XC773
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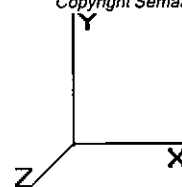
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Base Elev : 0.000 (ft)



Load Case: Twist/Sway

50.00 mph Wind with No Ice

21 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	196.79	1,743.39	0.00	0.00
10.00	191.99	1,704.65	0.00	0.00
15.00	187.18	1,665.90	0.00	0.00
20.00	182.38	1,627.15	0.00	0.00
25.00	177.57	1,588.40	0.00	0.00
30.00	172.77	1,549.65	0.00	0.00
35.00	170.81	1,510.91	0.00	0.00
40.00	172.38	1,472.16	0.00	0.00
45.00	173.03	1,433.41	0.00	0.00
45.34	11.49	95.12	0.00	0.00
50.00	163.79	2,462.97	0.00	0.00
52.67	93.03	1,379.83	0.00	0.00
55.00	80.90	636.67	0.00	0.00
60.00	173.80	1,337.84	0.00	0.00
65.00	171.98	1,299.09	0.00	0.00
70.00	169.71	1,260.34	0.00	0.00
75.00	167.01	1,221.59	0.00	0.00
80.00	163.93	1,182.84	0.00	0.00
85.00	160.50	1,144.10	0.00	0.00
90.00	156.75	1,105.35	0.00	0.00
92.26	69.14	486.19	0.00	0.00
95.00	84.60	1,008.59	0.00	0.00
97.76	83.72	991.66	0.00	0.00
100.0	67.10	409.24	0.00	0.00
105.0	146.80	888.06	0.00	0.00
110.0	141.99	854.84	0.00	0.00
115.0	136.94	821.63	0.00	0.00
120.0	131.66	788.42	0.00	0.00
125.0	126.18	755.21	0.00	0.00
130.0	120.49	721.99	0.00	0.00
130.0	0.16	0.94	0.00	0.00
134.0	93.38	768.39	0.00	0.00
135.0	22.52	84.78	0.00	0.00
137.0	395.31	394.81	0.00	0.00
140.0	65.26	230.07	0.00	0.00
145.0	103.99	370.17	0.00	0.00
147.0	1,232.26	1,962.42	0.00	0.00
150.0	57.67	174.15	0.00	0.00
155.0	91.04	276.96	0.00	0.00
157.0	2,095.40	3,131.13	0.00	910.68
Totals:	8,403.39	42,541.00	0.00	910.68

Pole : CT54XC773
 Location : Hamden, CT
 Height : 157.0 (ft)
 Shape : 18 Sides
 Base Dia : 68.00 (in)
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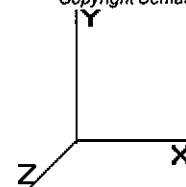
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Base Elev : 0.000 (ft)



Load Case: Twist/Sway

50.00 mph Wind with No Ice

21 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	-8.412	-42.539	0.000	0.000	0.000	-912.359	0.000	0.000	0.000	0.000
5.00	-8.232	-40.792	0.000	0.000	0.000	-870.299	-0.013	0.000	0.013	-0.023
10.00	-8.055	-39.084	0.000	0.000	0.000	-829.141	-0.050	0.000	0.050	-0.047
15.00	-7.883	-37.415	0.000	0.000	0.000	-788.865	-0.113	0.000	0.113	-0.072
20.00	-7.714	-35.785	0.000	0.000	0.000	-749.452	-0.203	0.000	0.203	-0.098
25.00	-7.549	-34.193	0.000	0.000	0.000	-710.883	-0.319	0.000	0.319	-0.124
30.00	-7.388	-32.641	0.000	0.000	0.000	-673.138	-0.463	0.000	0.463	-0.150
35.00	-7.228	-31.127	0.000	0.000	0.000	-636.197	-0.636	0.000	0.636	-0.178
40.00	-7.066	-29.652	0.000	0.000	0.000	-600.057	-0.838	0.000	0.838	-0.206
45.00	-6.895	-28.217	0.000	0.000	0.000	-564.728	-1.070	0.000	1.070	-0.236
45.34	-6.891	-28.120	0.000	0.000	0.000	-562.407	-1.086	0.000	1.086	-0.238
50.00	-6.726	-25.655	0.000	0.000	0.000	-530.274	-1.333	0.000	1.333	-0.266
52.67	-6.633	-24.274	0.000	0.000	0.000	-512.316	-1.487	0.000	1.487	-0.283
55.00	-6.558	-23.635	0.000	0.000	0.000	-496.861	-1.629	0.000	1.629	-0.298
60.00	-6.389	-22.295	0.000	0.000	0.000	-464.070	-1.957	0.000	1.957	-0.328
65.00	-6.221	-20.993	0.000	0.000	0.000	-432.124	-2.318	0.000	2.318	-0.360
70.00	-6.054	-19.731	0.000	0.000	0.000	-401.018	-2.712	0.000	2.712	-0.392
75.00	-5.890	-18.507	0.000	0.000	0.000	-370.746	-3.141	0.000	3.141	-0.425
80.00	-5.727	-17.322	0.000	0.000	0.000	-341.298	-3.605	0.000	3.605	-0.460
85.00	-5.567	-16.176	0.000	0.000	0.000	-312.663	-4.105	0.000	4.105	-0.495
90.00	-5.408	-15.069	0.000	0.000	0.000	-284.827	-4.643	0.000	4.643	-0.531
92.26	-5.339	-14.582	0.000	0.000	0.000	-272.624	-4.898	0.000	4.898	-0.548
95.00	-5.249	-13.572	0.000	0.000	0.000	-257.978	-5.220	0.000	5.220	-0.570
97.76	-5.160	-12.580	0.000	0.000	0.000	-243.507	-5.555	0.000	5.555	-0.591
100.0	-5.095	-12.169	0.000	0.000	0.000	-231.932	-5.837	0.000	5.837	-0.609
105.0	-4.947	-11.278	0.000	0.000	0.000	-206.456	-6.499	0.000	6.499	-0.652
110.0	-4.803	-10.422	0.000	0.000	0.000	-181.721	-7.205	0.000	7.205	-0.696
115.0	-4.663	-9.598	0.000	0.000	0.000	-157.706	-7.958	0.000	7.958	-0.740
120.0	-4.528	-8.808	0.000	0.000	0.000	-134.390	-8.757	0.000	8.757	-0.784
125.0	-4.397	-8.051	0.000	0.000	0.000	-111.751	-9.601	0.000	9.601	-0.827
130.0	-4.269	-7.330	0.000	0.000	0.000	-89.766	-10.491	0.000	10.491	-0.870
130.0	-4.271	-7.328	0.000	0.000	0.000	-89.738	-10.493	0.000	10.493	-0.870
134.0	-4.168	-6.559	0.000	0.000	0.000	-72.655	-11.236	0.000	11.236	-0.902
135.0	-4.146	-6.474	0.000	0.000	0.000	-68.516	-11.424	0.000	11.424	-0.911
137.0	-3.748	-6.083	0.000	0.000	0.000	-60.224	-11.813	0.000	11.813	-0.940
140.0	-3.684	-5.851	0.000	0.000	0.000	-48.980	-12.417	0.000	12.417	-0.980
145.0	-3.577	-5.480	0.000	0.000	0.000	-30.560	-13.475	0.000	13.475	-1.035
147.0	-2.310	-3.540	0.000	0.000	0.000	-23.406	-13.913	0.000	13.913	-1.054
150.0	-2.251	-3.366	0.000	0.000	0.000	-16.475	-14.583	0.000	14.583	-1.076
155.0	-2.155	-3.090	0.000	0.000	0.000	-5.221	-15.726	0.000	15.726	-1.100
157.0	-2.095	0.000	0.000	0.000	0.000	-0.911	-16.187	0.000	16.187	-1.103

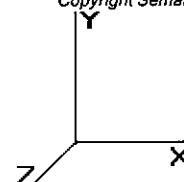
Pole : CT54XC773
 Location : Hamden, CT
 Height : 157.0 (ft)
 Shape : 18 Sides
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 Taper : 0.328026 (in/ft)

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Base Elev : 0.000 (ft)

Load Case: Twist/Sway

50.00 mph Wind with No Ice

21 Iterations

Gust Response Factor : 1.69

Dead Load Factor : 1.00

Wind Load Factor : 1.00

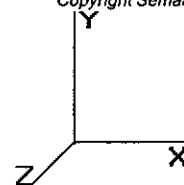
Calculated Stresses

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	0.45	0.18	0.00	0.00	0.00	6.99	7.45	51.0	0.0	0.146
5.00	0.45	0.18	0.00	0.00	0.00	7.00	7.45	51.5	0.0	0.145
10.00	0.44	0.18	0.00	0.00	0.00	7.02	7.46	52.0	0.0	0.144
15.00	0.43	0.18	0.00	0.00	0.00	7.03	7.47	52.0	0.0	0.144
20.00	0.42	0.18	0.00	0.00	0.00	7.04	7.47	52.0	0.0	0.144
25.00	0.41	0.18	0.00	0.00	0.00	7.06	7.48	52.0	0.0	0.144
30.00	0.41	0.19	0.00	0.00	0.00	7.07	7.48	52.0	0.0	0.144
35.00	0.40	0.19	0.00	0.00	0.00	7.08	7.49	52.0	0.0	0.144
40.00	0.39	0.19	0.00	0.00	0.00	7.09	7.49	52.0	0.0	0.144
45.00	0.38	0.19	0.00	0.00	0.00	7.09	7.48	52.0	0.0	0.144
45.34	0.38	0.19	0.00	0.00	0.00	7.09	7.48	52.0	0.0	0.144
50.00	0.36	0.19	0.00	0.00	0.00	7.10	7.46	52.0	0.0	0.144
52.67	0.34	0.19	0.00	0.00	0.00	6.86	7.20	52.0	0.0	0.139
55.00	0.34	0.19	0.00	0.00	0.00	6.85	7.20	52.0	0.0	0.138
60.00	0.33	0.19	0.00	0.00	0.00	6.84	7.18	52.0	0.0	0.138
65.00	0.32	0.19	0.00	0.00	0.00	6.82	7.15	52.0	0.0	0.138
70.00	0.31	0.19	0.00	0.00	0.00	6.80	7.12	52.0	0.0	0.137
75.00	0.30	0.20	0.00	0.00	0.00	6.77	7.08	52.0	0.0	0.136
80.00	0.30	0.20	0.00	0.00	0.00	6.73	7.03	52.0	0.0	0.135
85.00	0.29	0.20	0.00	0.00	0.00	6.67	6.97	52.0	0.0	0.134
90.00	0.28	0.20	0.00	0.00	0.00	6.61	6.89	52.0	0.0	0.133
92.26	0.28	0.20	0.00	0.00	0.00	6.57	6.86	52.0	0.0	0.132
95.00	0.26	0.20	0.00	0.00	0.00	6.52	6.80	52.0	0.0	0.131
97.76	0.28	0.23	0.00	0.00	0.00	7.21	7.50	52.0	0.0	0.144
100.00	0.28	0.24	0.00	0.00	0.00	7.15	7.44	52.0	0.0	0.143
105.00	0.27	0.24	0.00	0.00	0.00	6.98	7.26	52.0	0.0	0.140
110.00	0.26	0.25	0.00	0.00	0.00	6.77	7.05	52.0	0.0	0.136
115.00	0.26	0.25	0.00	0.00	0.00	6.50	6.77	52.0	0.0	0.130
120.00	0.25	0.26	0.00	0.00	0.00	6.17	6.44	52.0	0.0	0.124
125.00	0.24	0.26	0.00	0.00	0.00	5.75	6.01	52.0	0.0	0.116
130.00	0.23	0.27	0.00	0.00	0.00	5.21	5.46	52.0	0.0	0.105
130.01	0.23	0.27	0.00	0.00	0.00	5.21	5.46	52.0	0.0	0.105
134.01	0.43	0.55	0.00	0.00	0.00	8.87	9.35	52.0	0.0	0.180
135.00	0.43	0.55	0.00	0.00	0.00	8.58	9.06	52.0	0.0	0.174
137.00	0.41	0.51	0.00	0.00	0.00	7.95	8.40	52.0	0.0	0.162
140.00	0.41	0.52	0.00	0.00	0.00	7.01	7.48	52.0	0.0	0.144
145.00	0.41	0.54	0.00	0.00	0.00	5.04	5.54	52.0	0.0	0.107
147.00	0.28	0.36	0.00	0.00	0.00	4.10	4.42	52.0	0.0	0.085
150.00	0.27	0.37	0.00	0.00	0.00	3.17	3.51	52.0	0.0	0.067
155.00	0.27	0.38	0.00	0.00	0.00	1.19	1.61	52.0	0.0	0.031
157.00	0.00	0.39	0.00	0.00	0.00	0.22	0.71	52.0	0.0	0.014

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: TIA/EIA-222 Rev F

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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	27.3	0.00	42.52	0.00	0.00	2954.94	29.25	52.0	134.01	0.563
Ice	22.0	0.00	49.32	0.00	0.00	2444.28	25.06	52.0	134.01	0.482
Twist/Sway	8.4	0.00	42.54	0.00	0.00	912.36	9.35	52.0	134.01	0.180