



STATE OF CONNECTICUT

CONNECTICUT SITING COUNCIL

Ten Franklin Square, New Britain, CT 06051

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

E-Mail: siting.council@po.state.ct.us

Web Site: www.state.ct.us/csc/index.htm

January 9, 2003

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

RE: **EM-VER-077-021220** - Cellco Partnership d/b/a Verizon Wireless notice of intent to modify an existing telecommunications facility located at 53 Slater Road, Manchester, Connecticut.

Dear Attorney Baldwin:

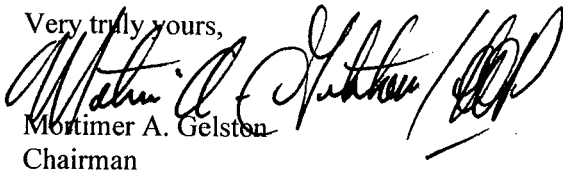
At a public meeting held on January 8, 2003, the Connecticut Siting Council (Council) acknowledged your notice to modify this existing telecommunications facility, pursuant to Section 16-50j-73 of the Regulations of Connecticut State Agencies, with the condition that Verizon's equipment shelter be painted tan in accordance with the conditions of the Town of Manchester's previous zoning approval.

The proposed modifications are to be implemented as specified here and in your notice dated December 20, 2002. The modifications are in compliance with the exception criteria in Section 16-50j-72 (b) of the Regulations of Connecticut State Agencies as changes to an existing facility site that would not increase tower height, extend the boundaries of the tower site, increase noise levels at the tower site boundary by six decibels, and increase the total radio frequencies electromagnetic radiation power density measured at the tower site boundary to or above the standard adopted by the State Department of Environmental Protection pursuant to General Statutes § 22a-162. This facility has also been carefully modeled to ensure that radio frequency emissions are conservatively below State and federal standards applicable to the frequencies now used on this tower.

This decision is under the exclusive jurisdiction of the Council. Any additional change to this facility will require explicit notice to this agency pursuant to Regulations of Connecticut State Agencies Section 16-50j-73. Such notice shall include all relevant information regarding the proposed change with cumulative worst-case modeling of radio frequency exposure at the closest point of uncontrolled access to the tower base, consistent with Federal Communications Commission, Office of Engineering and Technology, Bulletin 65. Any deviation from this format may result in the Council implementing enforcement proceedings pursuant to General Statutes § 16-50u including, without limitation, imposition of expenses resulting from such failure and of civil penalties in an amount not less than one thousand dollars per day for each day of construction or operation in material violation.

Thank you for your attention and cooperation.

Very truly yours,



Mortimer A. Gelston
Chairman

MAG/laf

c: Honorable Stephen T. Cassano, Mayor, Town of Manchester
Richard J. Sartor, General Manager, Town of Manchester
Thomas R. O'Marra, Zoning Enforcement Officer, Town of Manchester
Julie Donaldson Kohler, Esq., Hurwitz & Sagarin LLC
Stephen J. Humes, Esq., LeBoeuf, Lamb, Greene & MacRae
Thomas F. Flynn III, Nextel Communications
Christopher B. Fisher, Esq., Cuddy & Feder & Worby



Town of Manchester

41 Center Street • P.O. Box 191
Manchester, Connecticut 06045-0191

www.ci.manchester.ct.us

RECEIVED

JAN - 6 2003

CONNECTICUT
SITING COUNCIL

STEPHEN T. CASSANO, MAYOR
JOSH M. HOWROYD, DEPUTY MAYOR
CHRISTY SCOTT, SECRETARY

DIRECTORS
TIMOTHY H. BECKER
THOMAS P. CROCKETT
JOSEPH S. HACHEY
DAVID M. SHERIDAN
LOUIS A. SPADACCINI
KEVIN L. ZINGLER

STEVEN R. WERBNER, GENERAL MANAGER

January 3, 2003

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

Re: EM-VER-077-021220 – Cellco Partnership d/b/a Verizon Wireless
53 Slater Street, Manchester, Connecticut

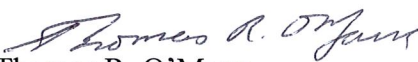
Dear Mr. Phelps:

Your letter of December 30, 2002 addressed to the Honorable Stephen T. Cassano has been referred to me for reply. As indicated on previous occasions the Manchester Planning and Zoning Commission had approved the construction of a monopole for the purpose of wireless communication facilities.

At the time of approval it was a condition of the Commission that all equipment boxes and like structures be painted tan. We respectfully request that the Siting Council continue its practice as done in previous applications of requiring that the new equipment boxes and structures be also painted tan.

This is the fifth provider to locate on this tower. I have, by a telephone call, called the attention of counsel for the applicant to an apparent anomaly on sheet 3 of the structural analysis. Labels for the height of the new panels appear to have been reversed.

Very truly yours,


Thomas R. O'Marra
Zoning Enforcement Officer

TRO'M/s
R:\SHARON\09\TOM\LETTERS\SITING COUNCIL-VERIZON.DOC

cc: Kenneth Baldwin, Esq., Robinson & Cole, LLP
Steven R. Werbner, General Manager
Mark Pellegrini, Director of Neighborhood Services and Economic Development



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STEVEN R. WERBNER, GENERAL MANAGER

Town of Manchester

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JAN - 6 2003

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LOUIS A. SPADACCINI
KEVIN L. ZINGLER

January 3, 2003

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

Re: Time for Response – Applications for Notice of Intent to modify existing
telecommunication facilities

Dear Mr. Phelps:

The Town of Manchester very much appreciates the efforts made by the Connecticut Siting Council in notifying us of applications pending before the Council. However, in the immediate past it seems that the time between receipt of your notice (example - January 2) and the time of the Commission's scheduled agenda (example – January 8) has been shrinking.

I recognize the commitment of the Council to providing prompt and effective review of what may appear to be routine matters. It would be helpful if a greater opportunity for review and comment by the municipality could be arranged without imperiling that commitment.

Very truly yours,

Thomas R. O'Marra
Zoning Enforcement Officer

TRO'M/s

R:\SHARON\9\TOM\LETTERS\SITING COUNCIL-RESPONSE TIME.DOC

cc: Steven R. Werbner, General Manager
Mark Pellegrini, Director of Neighborhood Services and Economic Development



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

EM-VER-077-021220

December 20, 2002

Via Hand Delivery

RECEIVED

DEC 20 2002

**CONNECTICUT
SITING COUNCIL**

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

Re: **Notice of Exempt Modification**
53 Slater Road
Manchester, CT

Dear Mr. Phelps:

Cellco Partnership d/b/a Verizon Wireless ("Cellco") intends to install antennas on the existing monopole tower, at 53 Slater Road, Manchester, Connecticut. The tower is owned and operated by Sprint Sites USA and supports Sprint PCS antennas at the 155-foot level. The Siting Council approved the shared use of this facility by VoiceStream at the 133-foot level (TS-VoiceStream-077-010228), Nextel at the 123-foot level (EM-NEXTEL-077-020604) and AT&T at the 145-foot level (EM-AT&T-077-020321). 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 the Manchester General Manager, Steven R. Werbner.



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The facility consists of a 155-foot self-supporting tower, within an approximately 66' x 50' site compound. Cellco proposes to install twelve (12) panel-type antennas at the 113-foot level on the tower and a 12' x 30' single-story equipment shelter near the base of the tower. (See attached Project Plans).

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

1. The proposed modification will not increase the overall height of the existing tower. Cellco's antennas will be mounted with their centerline at the 113-foot level on the 155-foot tower.

HART1-1066550-1

S. Derek Phelps
 December 20, 2002
 Page 2

2. The proposed installation of twelve (12) panel-type antennas and a 12' x 30' equipment shelter will not require an extension of the site boundaries.

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

4. The operation of the 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. The cumulative worst-case RF power density calculations Nextel, Sprint, VoiceStream, AT&T and Cellco antennas would be 18.473 % of the FCC Standard, as indicted below:

Company	Center line Ht (feet)	Freq. (MHz)	Number of Channels	Power Per Channel (Watts)	Power Density (mW/cm ²)	Fraction of MPE (%)
Sprint	155	1962	11	100	0.016455359	1.6455
AT&T	145	1945	12	250	1.20	0.12
VoiceStream	133	1930-1945	8	402.89	0.03997499	3.9975
Nextel	123	851	9	100	0.021380131	3.77
Cellco	113	800	9	200	0.0507	8.94
Total						18.473

* RF power density calculations for Sprint, AT&T, VoiceStream and Nextel installations were taken from the carrier's respective Siting Council submissions.

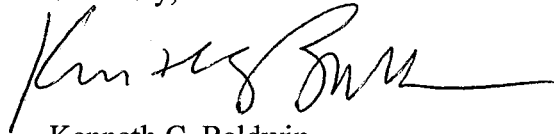
Also attached is an engineer's certification stating that the tower can support the antennas and associated equipment of Sprint, Nextel, AT&T, VoiceStream and Cellco.



S. Derek Phelps
December 20, 2002
Page 3

For the foregoing reasons, Cellco respectfully submits that the proposed antenna installation at the Manchester facility tower constitutes an exempt modification under R.C.S.A. § 16-50j-72(b)(2).

Sincerely,



Kenneth C. Baldwin

KCB:cag
Attachments

cc: Steven R. Werbner, General Manager
Sandy M. Carter

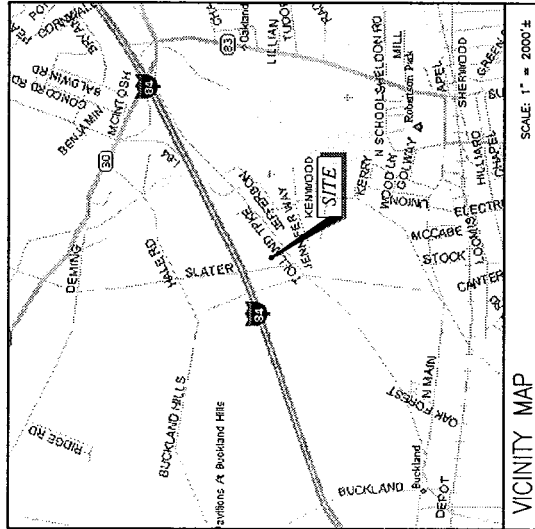




SITE NAME:

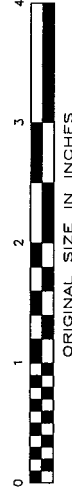
BUCKLAND

**53 SLATER ROAD
MANCHESTER, CT 06040
HARTFORD COUNTY**



PROJECT INDEX

SITE NAME: BUCKLAND
PROJECT #: 01011050631
LOCATION CODE: 1700322214
SITE ADDRESS: 53 SLATER ROAD
 MANCHESTER, CT 06040
 HARTFORD COUNTY
SITE OWNER: RAGLIN ASSOCIATES
 25 RAILROAD AVENUE
 WEST HAVEN, CT 06516
APPLICANT: VERIZON WIRELESS
 99 EAST RIVER DRIVE
 EAST HARTFORD, CT
JURISDICTION: TOWN OF MANCHESTER
CURRENT ZONING: I - INDUSTRIAL ZONE
TAX IDENTIFICATION: MAP 47 & 51, LOT 53
SITE COORDINATES: CENTER OF TOWER
 LATITUDE: 41° 48' 18.2" N
 LONGITUDE: 72° 32' 00.6" W



TECTONIC / KEYES ASSOCIATES

1344 SLATER HIGHWAY, SUITE 500
 ROOFT HILL, CT 06077-1249
 OFFICE: (860)583-3244
 FAX: (860)297-4862

TITLE SHEET

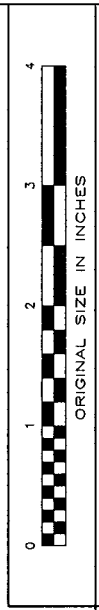
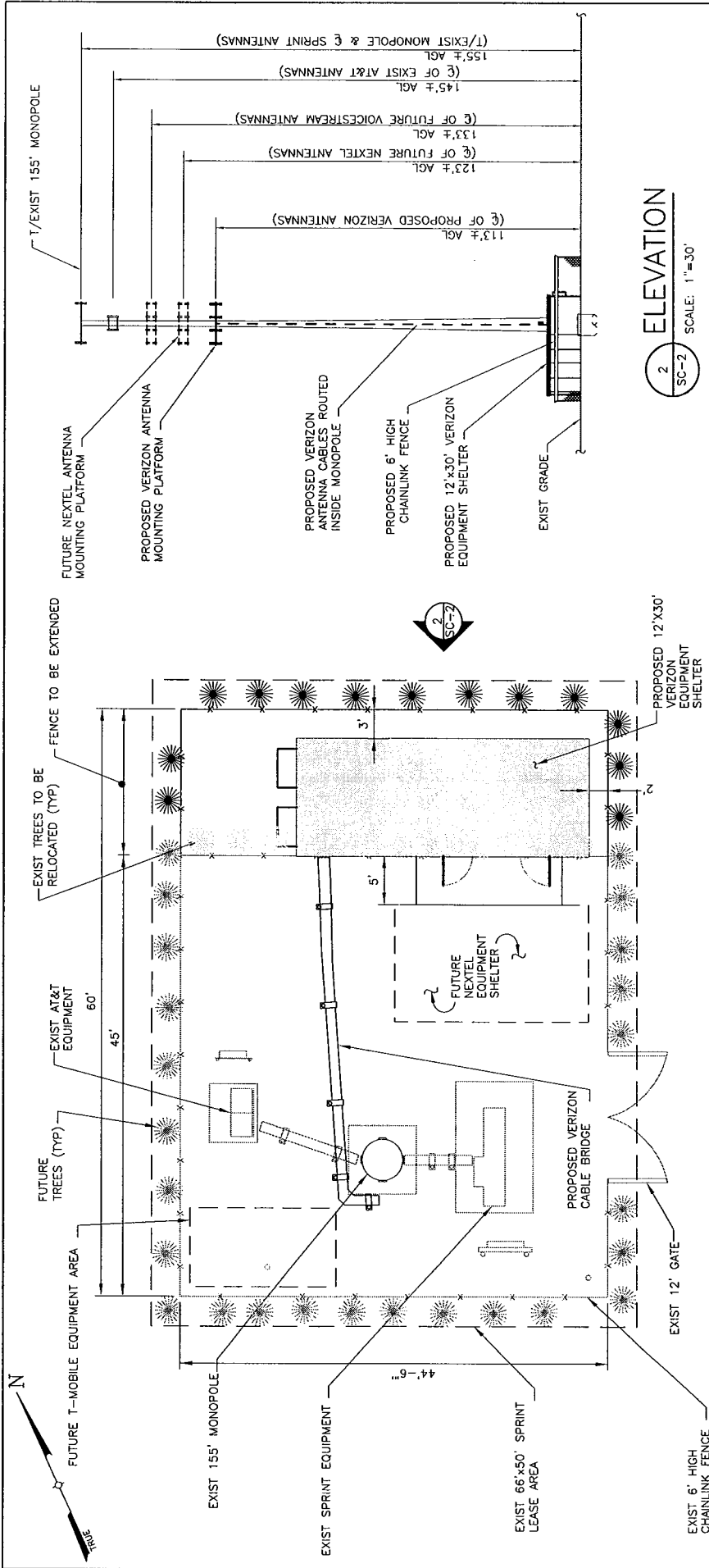
DATE	WORK ORDER NO.	DRAWING NUMBER	REV
12/6/02	2994.BUCK	SC-1	A

VERIZON WIRELESS
 99 EAST RIVER DRIVE
 EAST HARTFORD, CT

NO.	DATE	ISSUED FOR COMMENT	REVISIONS	BY	CHK	APPD
A	12/5/02			KBF		

BUCKLAND
 PROJECT #: 01011050631
 LOCATION CODE: 1700322214
 53 SLATER ROAD
 MANCHESTER, CT 06040

SCALE: NONE
 DESIGNED BY: JDF
 DRAWN BY: KBF



TECTONIC /KEYES ASSOCIATES
1344 SLATER ROAD, HIGHWAY 301E 300
ROCKY HILL, CT 06067-1349
OFFICE: (860)352-3344
FAX: (860)352-4882

SITE PLAN & ELEVATION

DATE	WORK ORDER NO.	DRAWING NUMBER	REV
12/6/02	2994-BUCK	SC-2	A

verizon wireless
VERIZON WIRELESS
99 EAST RIVER DRIVE
EAST HARTFORD, CT

NO.	DATE	ISSUED FOR COMMENT	BY	CHK	APPD
A	12/6/02	ISSUED FOR COMMENT	KBF		

SCALE: NONE
DESIGNED BY: JDF
DRAWN BY: KBF

BUCKLAND
PROJECT #: 01011050631
LOCATION CODE: 1700322214
53 SLATER ROAD
MANCHESTER, CT 06040

General Power Density

Site Name: Buckland, CT (53 Slater Rd Manchester)
 Tower Height: 113 ft rad center

Operator	Operating Frequency (MHz)	Number of Trans.	ERP Per Trans. (watts)	Total ERP (watts)	Distance to Target (feet)	Calculated Power Density (mW/cm ²)	Maximum Permissible Exposure* (mW/cm ²)	Fraction of MPE (%)
Verizon	880	9	200	1800	113	0.0507	0.56733	8.94%
							0.56733	0.00%

Total Percentage of Maximum Permissible Exposure

*Guidelines adopted by the FCC on August 1, 1996, 47 CFR Part 1 based on NCRP Report 86, 1986 and generally on ANSI/IEEE C95.1-1992

MHz = Megahertz

mW/cm² = milliwatts per square centimeter

ERP = Effective Radiated Power

Absolute worst case scenario, maximum values used.



1047 N. 204th Avenue
Elkhorn, NE 68022
Ph: 402-289-1888
Fax: 402-289-1861

SEMAAN ENGINEERING SOLUTIONS

*OK
R/D, 1/29/02*

155 ft SUMMIT Monopole Structural Analysis

Prepared for:
Verizon Wireless
99 E. River Drive
E. Hartford, CT 06108

Site: CT03XC211
Manchester, CT

January 22, 2002

Ms. Michele Kababik
Verizon Wireless
99 E. River Drive
E. Hartford, CT 06108

Re: Site Number CT03XC211 – Manchester, CT.

Dear Ms. Kababik:

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 EIA/TIA-222-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 155 ft SUMMIT Monopole.

Refer to SUMMIT job #3960 dated September 11, 1998 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 **EIA/TIA-222-F and local building codes for 80 mph with 1/2" radial ice**. Wind is applied to the structure, accessories and antennas.

Structure loading:

Per the loading sheet supplied, the analysis was performed using the following loading: (Proposed loading in bold)

Elev. (ft)	Qty.	Antennas and Mounts	Coax	Owner
155.0	9	DB980H90 Mounted On a 14 FT Low Profile platform	(9) 1-5/8	Sprint
145.0	6	Allgon 7250.03 Mounted On a 14 FT Low Profile platform	(12) 1-5/8	ATT
133.0	6	RR90-17-02DP Mounted On a 14 FT Low Profile platform	(12) 1-5/8	Voicestream
123.0	12	DB844H90EE Mounted On a 14 FT Low Profile platform	(12) 1-5/8	Nextel
113.0	12	DB844H80 Mounted On a 14 FT Low Profile platform	(12) 1-5/8	Verizon

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: 69.0%.

Foundation:

Pole Reactions	Original Design Reactions	Current Analysis Reactions	% Of Design
Moment (ft-kips)	3,250.00	2,361.87	72.7
Shear (kips)	28.00	21.58	77.1

The structure base reactions resulting from this analysis do not exceed the ones shown on the original structure drawings.

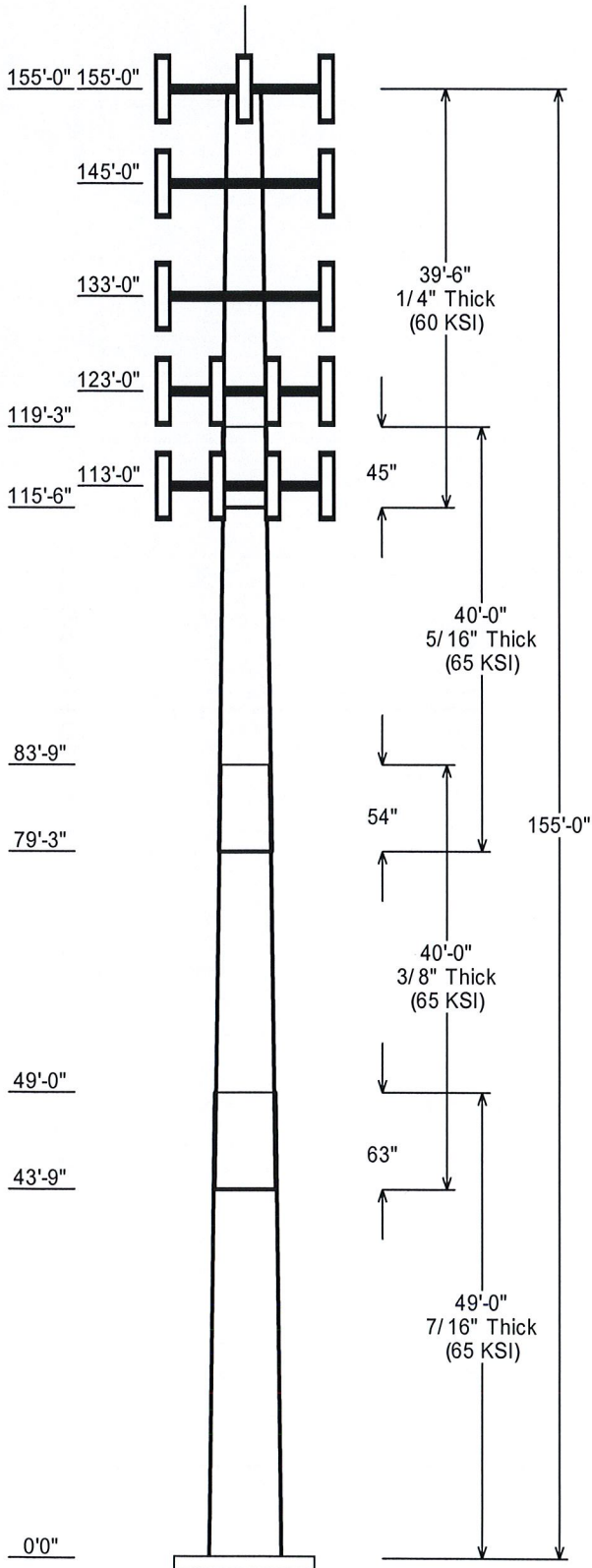
Review and Recommendations:

Based on the analysis results, the existing structure meets the requirements per the EIA/TIA-222-F standards for a basic wind speed of 80 mph with 1/2" radial ice.

SEMAAN ENGINEERING SOLUTIONS

1047 N.204th Avenue
 Elkhorn, NE 68022
 Phone: 402-289-1888
 Fax: 402-333-8577

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Job Information	
Pole :	CT03XC211
Description :	
Client :	Sprint Sites USA - NJ
Location :	Manchester, CT
Type :	18 Sides Slip Joints
Height :(ft)	155.000 Taper: 0.1850 (in/ft)

Sections Properties						
Shaft Section	Section Length (ft)	Diameter (in) Accross Flats Top Bottom	Thick (in)	Joint Type	Overlap Length (in)	Steel Grade (ksi)
1	49.000	39.73 48.80	0.438		0.000	65
2	40.000	34.05 41.45	0.375	Slip Joint	63.000	65
3	40.000	28.11 35.51	0.313	Slip Joint	54.000	65
4	39.500	22.00 29.30	0.250	Slip Joint	45.000	60

Discrete Appurtenance				
Attach Elev (ft)	Force Elev (ft)	Type	Qty	Description
155.000	159.000	Lightning	1	5/8" lightning rod
155.000	155.000	Platform	1	14 FT Low Profile platform
155.000	155.000	Panel	9	DB980H90
145.000	145.000	Platform	1	14 FT Low Profile platform
145.000	145.000	Panel	6	Allgon 7250.03
133.000	133.000	Platform	1	14 FT Low Profile platform
133.000	133.000	Panel	6	RR90-17-02DP
123.000	123.000	Platform	1	14 FT Low Profile platform
123.000	123.000	Panel	12	DB844H90EE
113.000	113.000	Platform	1	14 FT Low Profile platform
113.000	113.000	Panel	12	DB844H80

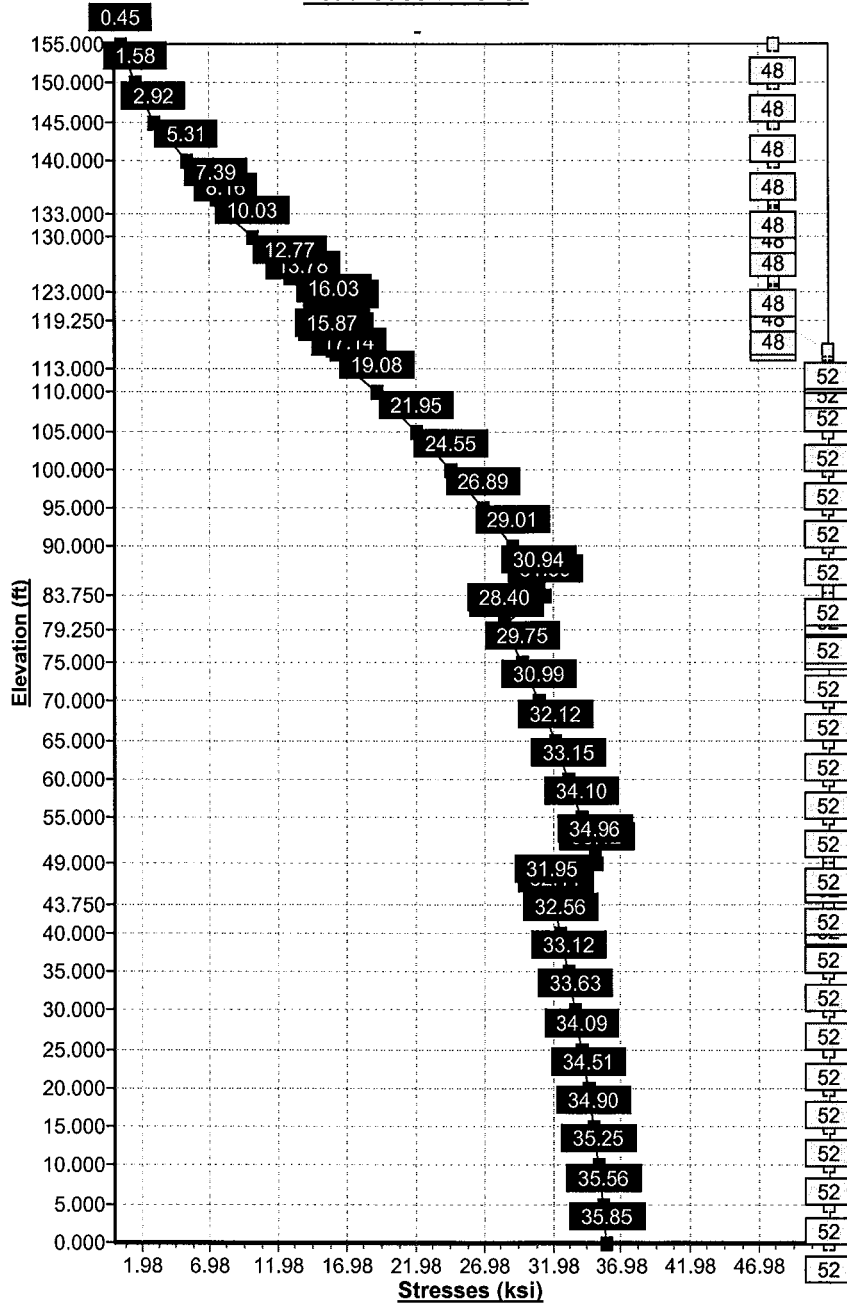
Load Cases / Deflections			
Load Case	Attach Elev (ft)	Translation (in)	Rotation (deg)
No Ice	No Ice Wind Speed = 80.00 mph w/ No Ice		
	155.000	85.67	-4.552
	145.000	76.16	-4.525
	133.000	64.92	-4.409
	123.000	55.87	-4.229
	113.000	47.25	-3.993
Ice	Ice Wind Speed = 69.28 mph w/ Ice 0.50 in Thick		
	155.000	71.95	-3.840
	145.000	63.93	-3.816
	133.000	54.45	-3.715
	123.000	46.82	-3.561
	113.000	39.57	-3.359

Reactions			
Load Case	Moment (Kip-ft)	Shear (Kips)	Axial (Kips)
No Ice	2,361.874	21.579	-30.198
Ice	1,957.659	17.409	-38.684



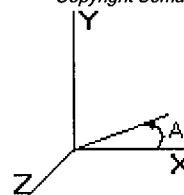
1-28-02

Load Case : No Ice



Pole : CT03XC211
 Location: Manchester, CT
 Height : 155.0 (ft)
 Shape : 18 Sides
 Base Dia : 48.80 (in)
 Taper : 0.185 (in/ft)

Sprint Sites USA - NJ
 Base Elev : 0.000 (ft)
 Top Dia : 22.00 (in)



Shaft Section Properties

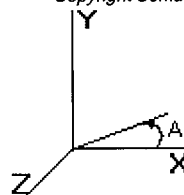
Sect Num	Length (ft)	Thick (in)	Fy (ksi)	Joint Type	Slip Joint Len (in)	Weight (lb)	Bottom				Top				Taper (in/ft)				
							Dia (in)	Elev (ft)	Area (sqin)	Ix (in^4)	W/t Ratio	D/t Ratio	Dia (in)	Elev (ft)		Area (sqin)	Ix (in^4)	W/t Ratio	D/t Ratio
1	49.000	0.4375	65		0.00	10,148	48.80	0.000	67.15	19844.8	18.26	111.5	39.73	49.00	54.57	10646.7	14.60	90.82	0.185
2	40.000	0.3750	65	Slip Joint	63.00	6,056	41.45	43.75	48.90	10425.7	18.08	110.5	34.05	83.75	40.09	5745.6	14.60	90.82	0.185
3	40.000	0.3125	65	Slip Joint	54.00	4,253	35.51	79.25	34.91	5465.9	18.63	113.6	28.11	119.2	27.57	2692.7	14.45	89.96	0.185
4	39.500	0.2500	60	Slip Joint	45.00	2,709	29.30	115.5	23.06	2459.5	19.26	117.2	22.00	155.0	17.26	1031.5	14.11	88.00	0.185
Shaft Weight						23,165													

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)	X Angle (deg)	Vert Ecc (ft)
155.0	5/8" lightning rod	1	75.00	0.500	1.00	100.00	1.500	1.00	0.000	0.00	4.000
155.0	14 FT Low Profile platform	1	1300.00	25.550	1.00	2100.00	27.320	1.00	0.000	0.00	0.000
155.0	DB980H90	9	9.00	3.280	0.67	28.00	3.850	0.67	0.000	0.00	0.000
145.0	14 FT Low Profile platform	1	1300.00	25.550	1.00	2100.00	27.320	1.00	0.000	0.00	0.000
145.0	Allgon 7250.03	6	16.00	4.300	0.67	36.00	5.000	0.67	0.000	0.00	0.000
133.0	14 FT Low Profile platform	1	1300.00	25.550	1.00	2100.00	27.320	1.00	0.000	0.00	0.000
133.0	RR90-17-02DP	6	12.00	5.230	1.00	35.00	5.800	1.00	0.000	0.00	0.000
123.0	14 FT Low Profile platform	1	1300.00	25.550	1.00	2100.00	27.320	1.00	0.000	0.00	0.000
123.0	DB844H90EE	12	10.00	3.960	1.00	35.00	4.520	1.00	0.000	0.00	0.000
113.0	14 FT Low Profile platform	1	1300.00	25.550	1.00	2100.00	27.320	1.00	0.000	0.00	0.000
113.0	DB844H80	12	10.00	2.900	1.00	37.00	3.400	1.00	0.000	0.00	0.000
Totals		51	7064.00			12142.00			Number of Loadings : 11		

Pôle : CT03XC211
 Location: Manchester, CT
 Height : 155.0 (ft)
 Shape : 18 Sides
 Base Dia : 48.80 (in)
 Taper : 0.185 (in/ft)

Sprint Sites USA - NJ
 Base Elev : 0.000 (ft)
 Top Dia : 22.00 (in)

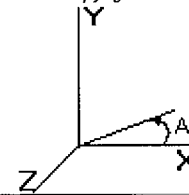


Segment Properties (Max Len : 5 ft)

Seg Elev (ft)	Description	Thick (in)	Dia (in)	Area (in^2)	Ix (in^4)	W/t Ratio	D/t Ratio	Fy (ksi)	Fb (ksi)	Weight (lb)
0.00		0.4375	48.800	67.155	19,844.8	18.26	111.54	65	52	0.0
5.00		0.4375	47.875	65.870	18,727.7	17.88	109.43	65	52	1,131.6
10.00		0.4375	46.950	64.586	17,653.4	17.51	107.31	65	52	1,109.8
15.00		0.4375	46.025	63.302	16,621.0	17.14	105.20	65	52	1,087.9
20.00		0.4375	45.100	62.017	15,629.6	16.77	103.09	65	52	1,066.1
25.00		0.4375	44.175	60.733	14,678.5	16.39	100.97	65	52	1,044.2
30.00		0.4375	43.250	59.448	13,766.7	16.02	98.86	65	52	1,022.4
35.00		0.4375	42.325	58.164	12,893.6	15.65	96.74	65	52	1,000.5
40.00		0.4375	41.400	56.879	12,058.1	15.27	94.63	65	52	978.7
43.75	Bot - Section 2	0.4375	40.706	55.916	11,455.8	15.00	93.04	65	52	719.7
45.00		0.4375	40.475	55.595	11,259.5	14.90	92.51	65	52	444.5
49.00	Top - Section 1	0.3750	40.485	47.739	9,703.5	17.63	107.96	65	52	1,405.5
50.00		0.3750	40.300	47.519	9,569.9	17.54	107.47	65	52	162.1
55.00		0.3750	39.375	46.418	8,920.0	17.10	105.00	65	52	799.1
60.00		0.3750	38.450	45.317	8,300.3	16.67	102.53	65	52	780.4
65.00		0.3750	37.525	44.216	7,709.9	16.23	100.07	65	52	761.7
70.00		0.3750	36.600	43.115	7,148.2	15.80	97.60	65	52	742.9
75.00		0.3750	35.675	42.014	6,614.5	15.36	95.13	65	52	724.2
79.25	Bot - Section 3	0.3750	34.889	41.078	6,182.3	14.99	93.04	65	52	600.8
80.00		0.3750	34.750	40.913	6,108.0	14.93	92.67	65	52	193.6
83.75	Top - Section 2	0.3125	34.681	34.088	5,087.2	18.16	110.98	65	52	956.2
85.00		0.3125	34.450	33.859	4,985.2	18.03	110.24	65	52	144.5
90.00		0.3125	33.525	32.941	4,590.9	17.51	107.28	65	52	568.3
95.00		0.3125	32.600	32.024	4,217.9	16.98	104.32	65	52	552.7
100.00		0.3125	31.675	31.106	3,865.6	16.46	101.36	65	52	537.0
105.00		0.3125	30.750	30.189	3,533.6	15.94	98.40	65	52	521.4
110.00		0.3125	29.825	29.272	3,221.1	15.42	95.44	65	52	505.8
113.00		0.3125	29.270	28.721	3,042.8	15.10	93.66	65	52	296.0
115.00		0.3125	28.900	28.354	2,927.6	14.90	92.48	65	52	194.2
115.50	Bot - Section 4	0.3125	28.807	28.262	2,899.3	14.84	92.18	65	52	48.2
119.25	Top - Section 3	0.2500	28.614	22.506	2,287.6	18.77	114.45	60	48	646.9
120.00		0.2500	28.475	22.396	2,254.1	18.67	113.90	60	48	57.3
123.00		0.2500	27.920	21.955	2,123.8	18.28	111.68	60	48	226.4
125.00		0.2500	27.550	21.662	2,039.7	18.02	110.20	60	48	148.4
130.00		0.2500	26.625	20.928	1,839.3	17.37	106.50	60	48	362.3
133.00		0.2500	26.070	20.487	1,725.6	16.98	104.28	60	48	211.4
135.00		0.2500	25.700	20.194	1,652.5	16.72	102.80	60	48	138.4
140.00		0.2500	24.775	19.460	1,478.8	16.06	99.10	60	48	337.3
145.00		0.2500	23.850	18.726	1,317.7	15.41	95.40	60	48	324.8
150.00		0.2500	22.925	17.992	1,168.7	14.76	91.70	60	48	312.4
155.00		0.2500	22.000	17.258	1,031.5	14.11	88.00	60	48	299.9
										23,165.5

Pole : CT03XC211
 Location: Manchester, CT
 Height : 155.0 (ft)
 Shape : 18 Sides
 Base Dia : 48.80 (in)
 Taper : 0.185 (in/ft)

Sprint Sites USA - NJ
 Base Elev : 0.000 (ft)
 Top Dia : 22.00 (in)



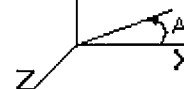
Load Case: No Ice	80 mph - No Ice	25 Iterations
Gust Response Factor : 1.69	Effective Wind Speed : 80.00 (mph)	
Dead Load Factor : 1.00		
Wind Load Factor : 1.00		

Shaft Forces

Seg Top Elev (ft)	Description	Kz	qz (psf)	qzGh (psf)	C (mph-ft)	Cf	Tributary (ft)	Aa (sf)	CfAa (sf)	Wind Force X (lb)	Wind Force Z (lb)	Weight (lb)
0.00		1.00	16.38	27.68	325.33	0.650	0.00	0.000	0.000	0.00	0.00	0.0
5.00		1.00	16.38	27.68	319.17	0.650	5.00	20.141	13.091	362.49	0.00	1,131.6
10.00		1.00	16.38	27.68	313.00	0.650	5.00	19.755	12.841	355.55	0.00	1,109.8
15.00		1.00	16.38	27.68	306.83	0.650	5.00	19.370	12.590	348.61	0.00	1,087.9
20.00		1.00	16.38	27.68	300.67	0.650	5.00	18.984	12.340	341.68	0.00	1,066.1
25.00		1.00	16.38	27.68	294.50	0.650	5.00	18.599	12.089	334.74	0.00	1,044.2
30.00		1.00	16.38	27.68	288.33	0.650	5.00	18.213	11.839	327.80	0.00	1,022.4
35.00		1.01	16.66	28.15	284.55	0.650	5.00	17.828	11.588	326.31	0.00	1,000.5
40.00		1.05	17.31	29.25	283.69	0.650	5.00	17.443	11.338	331.67	0.00	978.7
43.75	Bot - Section 2	1.08	17.75	30.01	282.53	0.650	3.75	12.829	8.339	250.27	0.00	719.7
45.00		1.09	17.90	30.25	282.06	0.650	1.25	4.306	2.799	84.69	0.00	444.5
49.00	Top - Section 1	1.12	18.34	31.00	280.29	0.650	4.00	13.618	8.852	274.41	0.00	1,405.5
50.00		1.12	18.44	31.17	285.10	0.650	1.00	3.366	2.188	68.22	0.00	162.1
55.00		1.15	18.95	32.04	282.37	0.650	5.00	16.599	10.789	345.69	0.00	799.1
60.00		1.18	19.43	32.84	279.19	0.650	5.00	16.213	10.539	346.16	0.00	780.4
65.00		1.21	19.88	33.60	275.60	0.650	5.00	15.828	10.288	345.75	0.00	761.7
70.00		1.24	20.31	34.32	271.67	0.650	5.00	15.443	10.038	344.55	0.00	742.9
75.00		1.26	20.71	35.00	267.43	0.650	5.00	15.057	9.787	342.64	0.00	724.2
79.25	Bot - Section 3	1.28	21.04	35.56	263.60	0.650	4.25	12.496	8.122	288.86	0.00	600.8
80.00		1.28	21.10	35.66	262.91	0.650	0.75	2.215	1.440	51.35	0.00	193.6
83.75	Top - Section 2	1.30	21.37	36.13	259.35	0.650	3.75	10.946	7.115	257.07	0.00	956.2
85.00		1.31	21.46	36.28	262.90	0.650	1.25	3.601	2.340	84.92	0.00	144.5
90.00		1.33	21.82	36.88	257.94	0.650	5.00	14.161	9.205	339.48	0.00	568.3
95.00		1.35	22.16	37.45	252.77	0.650	5.00	13.776	8.954	335.39	0.00	552.7
100.00		1.37	22.49	38.00	247.40	0.650	5.00	13.391	8.704	330.82	0.00	537.0
105.00		1.39	22.80	38.54	241.86	0.650	5.00	13.005	8.453	325.80	0.00	521.4
110.00		1.41	23.11	39.05	236.15	0.650	5.00	12.620	8.203	320.38	0.00	505.8
113.00	Appertunance(s)	1.42	23.28	39.35	232.65	0.650	3.00	7.387	4.801	188.98	0.00	296.0
115.00		1.42	23.40	39.55	230.28	0.650	2.00	4.847	3.151	124.64	0.00	194.2
115.50	Bot - Section 4	1.43	23.43	39.60	229.69	0.650	0.50	1.202	0.781	30.95	0.00	48.2
119.25	Top - Section 3	1.44	23.65	39.96	225.18	0.650	3.75	9.050	5.883	235.12	0.00	646.9
120.00		1.44	23.69	40.04	228.28	0.650	0.75	1.784	1.160	46.43	0.00	57.3
123.00	Appertunance(s)	1.45	23.86	40.32	224.62	0.650	3.00	7.049	4.582	184.77	0.00	226.4
125.00		1.46	23.97	40.51	222.16	0.650	2.00	4.622	3.005	121.72	0.00	148.4
130.00		1.48	24.24	40.96	215.90	0.650	5.00	11.286	7.336	300.54	0.00	362.3
133.00	Appertunance(s)	1.48	24.39	41.23	212.09	0.650	3.00	6.587	4.281	176.54	0.00	211.4
135.00		1.49	24.50	41.41	209.53	0.650	2.00	4.314	2.804	116.12	0.00	138.4
140.00		1.51	24.75	41.84	203.04	0.650	5.00	10.516	6.835	286.00	0.00	337.3
145.00	Appertunance(s)	1.52	25.00	42.26	196.44	0.650	5.00	10.130	6.585	278.30	0.00	324.8
150.00		1.54	25.25	42.67	189.74	0.650	5.00	9.745	6.334	270.31	0.00	312.4
155.00	Appertunance(s)	1.55	25.49	43.07	182.94	0.650	5.00	9.359	6.084	262.07	0.00	299.9
Totals:							155.00			10,087.77	0.00	23,165.5

Pole : CT03XC211
 Location: Manchester, CT
 Height : 155.0 (ft)
 Shape : 18 Sides
 Base Dia : 48.80 (in)
 Taper : 0.185 (in/ft)

Sprint Sites USA - NJ
 Base Elev : 0.000 (ft)
 Top Dia : 22.00 (in)



Load Case: No Ice	80 mph - No Ice	25 Iterations
Gust Response Factor : 1.69	Effective Wind Speed : 80.00 (mph)	
Dead Load Factor : 1.00		
Wind Load Factor : 1.00		

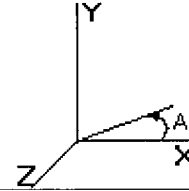
Discrete Appurtenance Forces

Elev (ft)	Description	Qty	qz (psf)	qzGh (psf)	Total CaAa (sf)	CaAa Factor	Horiz Ecc (ft)	Vert Ecc (ft)	X Angle (deg)	Wind Force X (lb)	Wind Force Z (lb)	Mom X (lb-ft)	Mom Y (lb-ft)	Mom Z (lb-ft)	Weight (lb)
113.00	14 FT Low Profile	1	23.28	39.35	25.550	1.000	0.000	0.0	0.0	1005.61	0.00	0.00	0.00	0.00	1300.0
113.00	DB844H80	12	23.28	39.35	34.800	1.000	0.000	0.0	0.0	1369.68	0.00	0.00	0.00	0.00	120.0
123.00	14 FT Low Profile	1	23.86	40.32	25.550	1.000	0.000	0.0	0.0	1030.27	0.00	0.00	0.00	0.00	1300.0
123.00	DB844H90EE	12	23.86	40.32	47.520	1.000	0.000	0.0	0.0	1916.19	0.00	0.00	0.00	0.00	120.0
133.00	14 FT Low Profile	1	24.39	41.23	25.550	1.000	0.000	0.0	0.0	1053.54	0.00	0.00	0.00	0.00	1300.0
133.00	RR90-17-02DP	6	24.39	41.23	31.380	1.000	0.000	0.0	0.0	1293.94	0.00	0.00	0.00	0.00	72.0
145.00	14 FT Low Profile	1	25.00	42.26	25.550	1.000	0.000	0.0	0.0	1079.86	0.00	0.00	0.00	0.00	1300.0
145.00	Allgon 7250.03	6	25.00	42.26	17.209	0.667	0.000	0.0	0.0	727.32	0.00	0.00	0.00	0.00	96.0
155.00	5/8" lightning rod	1	25.67	43.39	0.500	1.000	0.000	4.0	0.0	21.70	0.00	0.00	0.00	86.79	75.0
155.00	14 FT Low Profile	1	25.49	43.07	25.550	1.000	0.000	0.0	0.0	1100.64	0.00	0.00	0.00	0.00	1300.0
155.00	DB980H90	9	25.49	43.07	19.690	0.667	0.000	0.0	0.0	848.20	0.00	0.00	0.00	0.00	81.0
										11,446.9	0.00				7,064.0

Pole : CT03XC211
 Location: Manchester, CT
 Height : 155.0 (ft)
 Shape : 18 Sides
 Base Dia : 48.80 (in)
 Taper : 0.185 (in/ft)

Sprint Sites USA - NJ

Base Elev : 0.000 (ft)
 Top Dia : 22.00 (in)



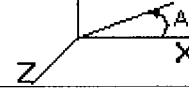
Load Case: No Ice	80 mph - No Ice	25 Iterations
Gust Response Factor : 1.69	Effective Wind Speed : 80.00 (mph)	
Dead Load Factor : 1.00		
Wind Load Factor : 1.00		

Applied Forces Summary

Seg Elev (ft)	X Coord (ft)	Z Coord (ft)	Lateral FX (-) (lb)	Axial FY (-) (lb)	Lateral FZ (lb)	Moment MX (lb-ft)	Torsion MY (lb-ft)	Moment MZ (lb-ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5.00	0.00	0.00	362.49	1,131.64	0.00	0.00	0.00	0.00
10.00	0.00	0.00	355.55	1,109.78	0.00	0.00	0.00	0.00
15.00	0.00	0.00	348.61	1,087.93	0.00	0.00	0.00	0.00
20.00	0.00	0.00	341.68	1,066.08	0.00	0.00	0.00	0.00
25.00	0.00	0.00	334.74	1,044.23	0.00	0.00	0.00	0.00
30.00	0.00	0.00	327.80	1,022.37	0.00	0.00	0.00	0.00
35.00	0.00	0.00	326.31	1,000.52	0.00	0.00	0.00	0.00
40.00	0.00	0.00	331.67	978.67	0.00	0.00	0.00	0.00
43.75	0.00	0.00	250.27	719.66	0.00	0.00	0.00	0.00
45.00	0.00	0.00	84.69	444.54	0.00	0.00	0.00	0.00
49.00	0.00	0.00	274.41	1,405.49	0.00	0.00	0.00	0.00
50.00	0.00	0.00	68.22	162.07	0.00	0.00	0.00	0.00
55.00	0.00	0.00	345.69	799.12	0.00	0.00	0.00	0.00
60.00	0.00	0.00	346.16	780.38	0.00	0.00	0.00	0.00
65.00	0.00	0.00	345.75	761.65	0.00	0.00	0.00	0.00
70.00	0.00	0.00	344.55	742.92	0.00	0.00	0.00	0.00
75.00	0.00	0.00	342.64	724.19	0.00	0.00	0.00	0.00
79.25	0.00	0.00	288.86	600.83	0.00	0.00	0.00	0.00
80.00	0.00	0.00	51.35	193.55	0.00	0.00	0.00	0.00
83.75	0.00	0.00	257.07	956.17	0.00	0.00	0.00	0.00
85.00	0.00	0.00	84.92	144.51	0.00	0.00	0.00	0.00
90.00	0.00	0.00	339.48	568.27	0.00	0.00	0.00	0.00
95.00	0.00	0.00	335.39	552.66	0.00	0.00	0.00	0.00
100.00	0.00	0.00	330.82	537.05	0.00	0.00	0.00	0.00
105.00	0.00	0.00	325.80	521.44	0.00	0.00	0.00	0.00
110.00	0.00	0.00	320.38	505.83	0.00	0.00	0.00	0.00
113.00	0.00	0.00	2,564.26	1,716.00	0.00	0.00	0.00	0.00
115.00	0.00	0.00	124.64	194.21	0.00	0.00	0.00	0.00
115.50	0.00	0.00	30.95	48.16	0.00	0.00	0.00	0.00
119.25	0.00	0.00	235.12	646.94	0.00	0.00	0.00	0.00
120.00	0.00	0.00	46.43	57.30	0.00	0.00	0.00	0.00
123.00	0.00	0.00	3,131.22	1,646.37	0.00	0.00	0.00	0.00
125.00	0.00	0.00	121.72	148.42	0.00	0.00	0.00	0.00
130.00	0.00	0.00	300.54	362.31	0.00	0.00	0.00	0.00
133.00	0.00	0.00	2,524.02	1,583.39	0.00	0.00	0.00	0.00
135.00	0.00	0.00	116.12	138.43	0.00	0.00	0.00	0.00
140.00	0.00	0.00	286.00	337.33	0.00	0.00	0.00	0.00
145.00	0.00	0.00	2,085.48	1,720.84	0.00	0.00	0.00	0.00
150.00	0.00	0.00	270.31	312.36	0.00	0.00	0.00	0.00
155.00	0.00	0.00	2,232.60	1,755.87	0.00	0.00	0.00	86.79
Totals:			21,534.69	30,229.48	0.00	0.00	0.00	86.79

Pole : CT03XC211
 Location: Manchester, CT
 Height : 155.0 (ft)
 Shape : 18 Sides
 Base Dia : 48.80 (in)
 Taper : 0.185 (in/ft)

Sprint Sites USA - NJ
 Base Elev : 0.000 (ft)
 Top Dia : 22.00 (in)



Load Case: No Ice 80 mph - No Ice 25 Iterations

Gust Response Factor : 1.69 Effective Wind Speed : 80.00 (mph)

Dead Load Factor : 1.00

Wind Load Factor : 1.00

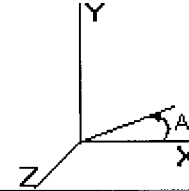
Calculated Forces and Deflections

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	21.579	30.198	0.000	0.000	0.000	2,361.874	0.000	0.000	0.000	0.000
5.00	21.299	29.005	0.000	0.000	0.000	2,253.982	-0.089	0.000	0.089	-0.165
10.00	21.020	27.835	0.000	0.000	0.000	2,147.490	-0.351	0.000	0.351	-0.333
15.00	20.743	26.688	0.000	0.000	0.000	2,042.391	-0.790	0.000	0.790	-0.501
20.00	20.466	25.565	0.000	0.000	0.000	1,938.680	-1.407	0.000	1.407	-0.672
25.00	20.192	24.465	0.000	0.000	0.000	1,836.349	-2.202	0.000	2.202	-0.844
30.00	19.918	23.387	0.000	0.000	0.000	1,735.392	-3.178	0.000	3.178	-1.017
35.00	19.641	22.334	0.000	0.000	0.000	1,635.803	-4.336	0.000	4.336	-1.191
40.00	19.345	21.311	0.000	0.000	0.000	1,537.600	-5.677	0.000	5.677	-1.366
43.75	19.108	20.568	0.000	0.000	0.000	1,465.059	-6.803	0.000	6.803	-1.499
45.00	19.045	20.095	0.000	0.000	0.000	1,441.174	-7.202	0.000	7.202	-1.544
49.00	18.760	18.669	0.000	0.000	0.000	1,364.996	-8.556	0.000	8.556	-1.686
50.00	18.724	18.471	0.000	0.000	0.000	1,346.236	-8.913	0.000	8.913	-1.722
55.00	18.413	17.621	0.000	0.000	0.000	1,252.617	-10.820	0.000	10.820	-1.915
60.00	18.096	16.793	0.000	0.000	0.000	1,160.556	-12.929	0.000	12.929	-2.107
65.00	17.774	15.986	0.000	0.000	0.000	1,070.080	-15.238	0.000	15.238	-2.299
70.00	17.449	15.201	0.000	0.000	0.000	981.211	-17.747	0.000	17.747	-2.488
75.00	17.117	14.442	0.000	0.000	0.000	893.969	-20.452	0.000	20.452	-2.674
79.25	16.822	13.829	0.000	0.000	0.000	821.223	-22.903	0.000	22.903	-2.831
80.00	16.780	13.614	0.000	0.000	0.000	808.607	-23.350	0.000	23.350	-2.859
83.75	16.495	12.646	0.000	0.000	0.000	745.682	-25.650	0.000	25.650	-2.995
85.00	16.429	12.471	0.000	0.000	0.000	725.063	-26.440	0.000	26.440	-3.041
90.00	16.099	11.869	0.000	0.000	0.000	642.920	-29.729	0.000	29.729	-3.236
95.00	15.767	11.287	0.000	0.000	0.000	562.428	-33.217	0.000	33.217	-3.422
100.00	15.436	10.725	0.000	0.000	0.000	483.592	-36.896	0.000	36.896	-3.599
105.00	15.106	10.185	0.000	0.000	0.000	406.411	-40.752	0.000	40.752	-3.763
110.00	14.771	9.672	0.000	0.000	0.000	330.885	-44.772	0.000	44.772	-3.911
113.00	12.104	8.123	0.000	0.000	0.000	286.571	-47.255	0.000	47.255	-3.993
115.00	11.971	7.932	0.000	0.000	0.000	262.364	-48.937	0.000	48.937	-4.044
115.50	11.943	7.875	0.000	0.000	0.000	256.378	-49.361	0.000	49.361	-4.057
119.25	11.669	7.237	0.000	0.000	0.000	211.592	-52.581	0.000	52.581	-4.143
120.00	11.624	7.174	0.000	0.000	0.000	202.840	-53.233	0.000	53.233	-4.159
123.00	8.386	5.753	0.000	0.000	0.000	167.969	-55.868	0.000	55.868	-4.229
125.00	8.261	5.604	0.000	0.000	0.000	151.197	-57.647	0.000	57.647	-4.272
130.00	7.940	5.256	0.000	0.000	0.000	109.894	-62.169	0.000	62.169	-4.363
133.00	5.304	3.867	0.000	0.000	0.000	86.075	-64.923	0.000	64.923	-4.409
135.00	5.181	3.734	0.000	0.000	0.000	75.467	-66.774	0.000	66.774	-4.435
140.00	4.872	3.417	0.000	0.000	0.000	49.564	-71.445	0.000	71.445	-4.489
145.00	2.659	1.864	0.000	0.000	0.000	25.204	-76.163	0.000	76.163	-4.525
150.00	2.365	1.573	0.000	0.000	0.000	11.911	-80.910	0.000	80.910	-4.545
155.00	2.233	0.000	0.000	0.000	0.000	0.087	-85.670	0.000	85.670	-4.552

Pole : CT03XC211
 Location: Manchester, CT
 Height : 155.0 (ft)
 Shape : 18 Sides
 Base Dia : 48.80 (in)
 Taper : 0.185 (in/ft)

Sprint Sites USA - NJ

Base Elev : 0.000 (ft)
 Top Dia : 22.00 (in)



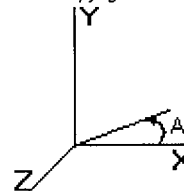
Load Case: No Ice	80 mph - No Ice	25 Iterations
Gust Response Factor : 1.69	Effective Wind Speed : 80.00 (mph)	
Dead Load Factor : 1.00		
Wind Load Factor : 1.00		

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	0.450	0.648	0.000	0.000	0.000	35.386	35.853	52.0	0.690
5.00	0.440	0.652	0.000	0.000	0.000	35.105	35.564	52.0	0.684
10.00	0.431	0.656	0.000	0.000	0.000	34.797	35.246	52.0	0.678
15.00	0.422	0.660	0.000	0.000	0.000	34.457	34.897	52.0	0.671
20.00	0.412	0.665	0.000	0.000	0.000	34.083	34.514	52.0	0.664
25.00	0.403	0.670	0.000	0.000	0.000	33.670	34.093	52.0	0.656
30.00	0.393	0.675	0.000	0.000	0.000	33.216	33.630	52.0	0.647
35.00	0.384	0.681	0.000	0.000	0.000	32.716	33.120	52.0	0.637
40.00	0.375	0.685	0.000	0.000	0.000	32.164	32.560	52.0	0.626
43.75	0.368	0.689	0.000	0.000	0.000	31.717	32.107	52.0	0.618
45.00	0.361	0.690	0.000	0.000	0.000	31.563	31.947	52.0	0.615
49.00	0.391	0.792	0.000	0.000	0.000	34.697	35.115	52.0	0.676
50.00	0.389	0.794	0.000	0.000	0.000	34.540	34.955	52.0	0.673
55.00	0.380	0.799	0.000	0.000	0.000	33.688	34.095	52.0	0.656
60.00	0.371	0.805	0.000	0.000	0.000	32.754	33.154	52.0	0.638
65.00	0.362	0.810	0.000	0.000	0.000	31.731	32.123	52.0	0.618
70.00	0.353	0.816	0.000	0.000	0.000	30.609	30.993	52.0	0.596
75.00	0.344	0.821	0.000	0.000	0.000	29.376	29.754	52.0	0.572
79.25	0.337	0.825	0.000	0.000	0.000	28.236	28.608	52.0	0.550
80.00	0.333	0.827	0.000	0.000	0.000	28.028	28.397	52.0	0.546
83.75	0.371	0.975	0.000	0.000	0.000	30.972	31.388	52.0	0.604
85.00	0.368	0.978	0.000	0.000	0.000	30.527	30.941	52.0	0.595
90.00	0.360	0.985	0.000	0.000	0.000	28.604	29.015	52.0	0.558
95.00	0.352	0.992	0.000	0.000	0.000	26.484	26.892	52.0	0.517
100.00	0.345	1.000	0.000	0.000	0.000	24.142	24.548	52.0	0.472
105.00	0.337	1.008	0.000	0.000	0.000	21.547	21.954	52.0	0.422
110.00	0.330	1.017	0.000	0.000	0.000	18.666	19.078	52.0	0.367
113.00	0.283	0.849	0.000	0.000	0.000	16.795	17.141	52.0	0.330
115.00	0.280	0.851	0.000	0.000	0.000	15.779	16.126	52.0	0.310
115.50	0.279	0.852	0.000	0.000	0.000	15.520	15.867	52.0	0.305
119.25	0.322	1.045	0.000	0.000	0.000	16.125	16.546	48.0	0.345
120.00	0.320	1.046	0.000	0.000	0.000	15.611	16.034	48.0	0.334
123.00	0.262	0.770	0.000	0.000	0.000	13.454	13.780	48.0	0.287
125.00	0.259	0.769	0.000	0.000	0.000	12.442	12.770	48.0	0.266
130.00	0.251	0.765	0.000	0.000	0.000	9.692	10.031	48.0	0.209
133.00	0.189	0.522	0.000	0.000	0.000	7.923	8.162	48.0	0.170
135.00	0.185	0.517	0.000	0.000	0.000	7.151	7.390	48.0	0.154
140.00	0.176	0.505	0.000	0.000	0.000	5.059	5.307	48.0	0.111
145.00	0.100	0.286	0.000	0.000	0.000	2.779	2.921	48.0	0.061
150.00	0.087	0.265	0.000	0.000	0.000	1.423	1.579	48.0	0.033
155.00	0.000	0.261	0.000	0.000	0.000	0.011	0.452	48.0	0.009

Pole : CT03XC211
 Location: Manchester, CT
 Height : 155.0 (ft)
 Shape : 18 Sides
 Base Dia : 48.80 (in)
 Taper : 0.185 (in/ft)

Sprint Sites USA - NJ
 Base Elev : 0.000 (ft)
 Top Dia : 22.00 (in)



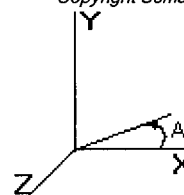
Load Case: Ice	80 mph - With Ice - Ice Thickness = 0.5 in	25 Iterations
Gust Response Factor : 1.69	Effective Wind Speed : 69.28 (mph)	
Dead Load Factor : 1.00		
Wind Load Factor : 1.00		

Shaft Forces

Seg Top Elev (ft)	Description	Kz	qz (psf)	qzGh (psf)	C (mph-ft)	Cf	Tributary (ft)	Aa (sf)	CfAa (sf)	Wind Force X (lb)	Wind Force Z (lb)	Weight (lb)
0.00		1.00	12.28	20.76	281.74	0.650	0.00	0.000	0.000	0.00	0.00	0.0
5.00		1.00	12.28	20.76	276.40	0.650	5.00	20.557	13.362	277.47	0.00	1,280.9
10.00		1.00	12.28	20.76	271.06	0.650	5.00	20.172	13.112	272.27	0.00	1,256.2
15.00		1.00	12.28	20.76	265.72	0.650	5.00	19.786	12.861	267.07	0.00	1,231.5
20.00		1.00	12.28	20.76	260.38	0.650	5.00	19.401	12.611	261.87	0.00	1,206.8
25.00		1.00	12.28	20.76	255.04	0.650	5.00	19.016	12.360	256.66	0.00	1,182.1
30.00		1.00	12.28	20.76	249.70	0.650	5.00	18.630	12.110	251.46	0.00	1,157.4
35.00		1.01	12.49	21.11	246.42	0.650	5.00	18.245	11.859	250.43	0.00	1,132.7
40.00		1.05	12.98	21.93	245.68	0.650	5.00	17.859	11.609	254.68	0.00	1,108.0
43.75	Bot - Section 2	1.08	13.31	22.50	244.67	0.650	3.75	13.142	8.542	192.26	0.00	815.0
45.00		1.09	13.42	22.69	244.26	0.650	1.25	4.410	2.867	65.05	0.00	476.7
49.00	Top - Section 1	1.12	13.75	23.24	242.73	0.650	4.00	13.952	9.069	210.83	0.00	1,506.7
50.00		1.12	13.83	23.38	246.89	0.650	1.00	3.449	2.242	52.43	0.00	187.3
55.00		1.15	14.21	24.02	244.53	0.650	5.00	17.016	11.060	265.76	0.00	922.2
60.00		1.18	14.57	24.63	241.78	0.650	5.00	16.630	10.810	266.28	0.00	900.6
65.00		1.21	14.91	25.20	238.67	0.650	5.00	16.245	10.559	266.12	0.00	879.0
70.00		1.24	15.23	25.74	235.27	0.650	5.00	15.859	10.309	265.37	0.00	857.4
75.00		1.26	15.53	26.25	231.59	0.650	5.00	15.474	10.058	264.07	0.00	835.8
79.25	Bot - Section 3	1.28	15.78	26.67	228.28	0.650	4.25	12.850	8.352	222.77	0.00	693.7
80.00		1.28	15.82	26.74	227.68	0.650	0.75	2.278	1.481	39.60	0.00	210.2
83.75	Top - Section 2	1.30	16.03	27.09	224.60	0.650	3.75	11.259	7.318	198.29	0.00	1,037.6
85.00		1.31	16.10	27.21	227.67	0.650	1.25	3.705	2.408	65.53	0.00	171.5
90.00		1.33	16.36	27.65	223.38	0.650	5.00	14.578	9.476	262.09	0.00	673.3
95.00		1.35	16.62	28.09	218.90	0.650	5.00	14.193	9.225	259.13	0.00	654.8
100.00		1.37	16.86	28.50	214.25	0.650	5.00	13.807	8.975	255.82	0.00	636.3
105.00		1.39	17.10	28.90	209.45	0.650	5.00	13.422	8.724	252.17	0.00	617.9
110.00		1.41	17.33	29.29	204.50	0.650	5.00	13.036	8.474	248.20	0.00	599.4
113.00	Appertunance(s)	1.42	17.46	29.51	201.47	0.650	3.00	7.637	4.964	146.52	0.00	351.1
115.00		1.42	17.55	29.66	199.42	0.650	2.00	5.014	3.259	96.69	0.00	230.5
115.50	Bot - Section 4	1.43	17.57	29.70	198.91	0.650	0.50	1.244	0.809	24.02	0.00	57.2
119.25	Top - Section 3	1.44	17.73	29.97	195.01	0.650	3.75	9.363	6.086	182.42	0.00	714.3
120.00		1.44	17.76	30.02	197.69	0.650	0.75	1.847	1.200	36.04	0.00	70.7
123.00	Appertunance(s)	1.45	17.89	30.24	194.52	0.650	3.00	7.299	4.745	143.48	0.00	279.0
125.00		1.46	17.97	30.38	192.39	0.650	2.00	4.789	3.113	94.57	0.00	183.0
130.00		1.48	18.17	30.72	186.97	0.650	5.00	11.703	7.607	233.71	0.00	446.0
133.00	Appertunance(s)	1.48	18.29	30.92	183.67	0.650	3.00	6.837	4.444	137.42	0.00	260.6
135.00		1.49	18.37	31.05	181.45	0.650	2.00	4.481	2.913	90.45	0.00	170.8
140.00		1.51	18.56	31.38	175.83	0.650	5.00	10.932	7.106	222.99	0.00	415.3
145.00	Appertunance(s)	1.52	18.75	31.69	170.12	0.650	5.00	10.547	6.855	217.30	0.00	400.0
150.00		1.54	18.93	32.00	164.31	0.650	5.00	10.161	6.605	211.39	0.00	384.6
155.00	Appertunance(s)	1.55	19.11	32.30	158.42	0.650	5.00	9.776	6.354	205.29	0.00	369.3
Totals:							155.00			7,785.98	0.00	26,563.1

Pole : CT03XC211
 Location: Manchester, CT
 Height : 155.0 (ft)
 Shape : 18 Sides
 Base Dia : 48.80 (in)
 Taper : 0.185 (in/ft)

Sprint Sites USA - NJ
 Base Elev : 0.000 (ft)
 Top Dia : 22.00 (in)



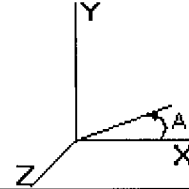
Load Case: Ice	80 mph - With Ice - Ice Thickness = 0.5 in	25 Iterations
Gust Response Factor : 1.69	Effective Wind Speed : 69.28 (mph)	
Dead Load Factor : 1.00		
Wind Load Factor : 1.00		

Discrete Appurtenance Forces

Elev (ft)	Description	Qty	qz (psf)	qzGh (psf)	Total CaAa (sf)	CaAa Factor	Horiz Ecc (ft)	Vert Ecc (ft)	X Angle (deg)	Wind Force X (lb)	Wind Force Z (lb)	Mom X (lb-ft)	Mom Y (lb-ft)	Mom Z (lb-ft)	Weight (lb)
113.00	14 FT Low Profile	1	17.46	29.51	27.320	1.000	0.000	0.0	0.0	806.41	0.00	0.00	0.00	0.00	2100.0
113.00	DB844H80	12	17.46	29.51	40.800	1.000	0.000	0.0	0.0	1204.30	0.00	0.00	0.00	0.00	444.0
123.00	14 FT Low Profile	1	17.89	30.24	27.320	1.000	0.000	0.0	0.0	826.18	0.00	0.00	0.00	0.00	2100.0
123.00	DB844H90EE	12	17.89	30.24	54.240	1.000	0.000	0.0	0.0	1640.28	0.00	0.00	0.00	0.00	420.0
133.00	14 FT Low Profile	1	18.29	30.92	27.320	1.000	0.000	0.0	0.0	844.84	0.00	0.00	0.00	0.00	2100.0
133.00	RR90-17-02DP	6	18.29	30.92	34.800	1.000	0.000	0.0	0.0	1076.16	0.00	0.00	0.00	0.00	210.0
145.00	14 FT Low Profile	1	18.75	31.69	27.320	1.000	0.000	0.0	0.0	865.95	0.00	0.00	0.00	0.00	2100.0
145.00	Allgon 7250.03	6	18.75	31.69	20.010	0.667	0.000	0.0	0.0	634.25	0.00	0.00	0.00	0.00	216.0
155.00	5/8" lightning rod	1	19.25	32.54	1.500	1.000	0.000	4.0	0.0	48.81	0.00	0.00	0.00	195.26	100.0
155.00	14 FT Low Profile	1	19.11	32.30	27.320	1.000	0.000	0.0	0.0	882.61	0.00	0.00	0.00	0.00	2100.0
155.00	DB980H90	9	19.11	32.30	23.112	0.667	0.000	0.0	0.0	746.65	0.00	0.00	0.00	0.00	252.0
										9,576.45	0.00				12,142.0

Pole : CT03XC211
 Location: Manchester, CT
 Height : 155.0 (ft)
 Shape : 18 Sides
 Base Dia : 48.80 (in)
 Taper : 0.185 (in/ft)

Sprint Sites USA - NJ
 Base Elev : 0.000 (ft)
 Top Dia : 22.00 (in)



Load Case: Ice

80 mph - With Ice - Ice Thickness = 0.5 in

25 Iterations

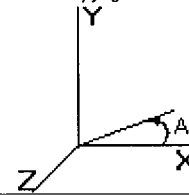
Gust Response Factor : 1.69 Effective Wind Speed : 69.28 (mph)
 Dead Load Factor : 1.00
 Wind Load Factor : 1.00

Applied Forces Summary

Seg Elev (ft)	X Coord (ft)	Z Coord (ft)	Lateral FX (-) (lb)	Axial FY (-) (lb)	Lateral FZ (lb)	Moment MX (lb-ft)	Torsion MY (lb-ft)	Moment MZ (lb-ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5.00	0.00	0.00	277.47	1,280.91	0.00	0.00	0.00	0.00
10.00	0.00	0.00	272.27	1,256.20	0.00	0.00	0.00	0.00
15.00	0.00	0.00	267.07	1,231.49	0.00	0.00	0.00	0.00
20.00	0.00	0.00	261.87	1,206.79	0.00	0.00	0.00	0.00
25.00	0.00	0.00	256.66	1,182.08	0.00	0.00	0.00	0.00
30.00	0.00	0.00	251.46	1,157.37	0.00	0.00	0.00	0.00
35.00	0.00	0.00	250.43	1,132.66	0.00	0.00	0.00	0.00
40.00	0.00	0.00	254.68	1,107.96	0.00	0.00	0.00	0.00
43.75	0.00	0.00	192.26	815.02	0.00	0.00	0.00	0.00
45.00	0.00	0.00	65.05	476.73	0.00	0.00	0.00	0.00
49.00	0.00	0.00	210.83	1,506.67	0.00	0.00	0.00	0.00
50.00	0.00	0.00	52.43	187.25	0.00	0.00	0.00	0.00
55.00	0.00	0.00	265.76	922.16	0.00	0.00	0.00	0.00
60.00	0.00	0.00	266.28	900.57	0.00	0.00	0.00	0.00
65.00	0.00	0.00	266.12	878.99	0.00	0.00	0.00	0.00
70.00	0.00	0.00	265.37	857.40	0.00	0.00	0.00	0.00
75.00	0.00	0.00	264.07	835.82	0.00	0.00	0.00	0.00
79.25	0.00	0.00	222.77	693.65	0.00	0.00	0.00	0.00
80.00	0.00	0.00	39.60	210.16	0.00	0.00	0.00	0.00
83.75	0.00	0.00	198.29	1,037.59	0.00	0.00	0.00	0.00
85.00	0.00	0.00	65.53	171.47	0.00	0.00	0.00	0.00
90.00	0.00	0.00	262.09	673.26	0.00	0.00	0.00	0.00
95.00	0.00	0.00	259.13	654.79	0.00	0.00	0.00	0.00
100.00	0.00	0.00	255.82	636.33	0.00	0.00	0.00	0.00
105.00	0.00	0.00	252.17	617.87	0.00	0.00	0.00	0.00
110.00	0.00	0.00	248.20	599.40	0.00	0.00	0.00	0.00
113.00	0.00	0.00	2,157.23	2,895.12	0.00	0.00	0.00	0.00
115.00	0.00	0.00	96.69	230.50	0.00	0.00	0.00	0.00
115.50	0.00	0.00	24.02	57.21	0.00	0.00	0.00	0.00
119.25	0.00	0.00	182.42	714.32	0.00	0.00	0.00	0.00
120.00	0.00	0.00	36.04	70.71	0.00	0.00	0.00	0.00
123.00	0.00	0.00	2,609.94	2,798.99	0.00	0.00	0.00	0.00
125.00	0.00	0.00	94.57	183.04	0.00	0.00	0.00	0.00
130.00	0.00	0.00	233.71	446.01	0.00	0.00	0.00	0.00
133.00	0.00	0.00	2,058.42	2,570.58	0.00	0.00	0.00	0.00
135.00	0.00	0.00	90.45	170.77	0.00	0.00	0.00	0.00
140.00	0.00	0.00	222.99	415.32	0.00	0.00	0.00	0.00
145.00	0.00	0.00	1,717.50	2,715.98	0.00	0.00	0.00	0.00
150.00	0.00	0.00	211.39	384.64	0.00	0.00	0.00	0.00
155.00	0.00	0.00	1,883.37	2,821.30	0.00	0.00	0.00	195.26
Totals:			17,362.43	38,705.07	0.00	0.00	0.00	195.26

Pole : CT03XC211
 Location: Manchester, CT
 Height : 155.0 (ft)
 Shape : 18 Sides
 Base Dia : 48.80 (in)
 Taper : 0.185 (in/ft)

Sprint Sites USA - NJ
 Base Elev : 0.000 (ft)
 Top Dia : 22.00 (in)



Load Case: Ice	80 mph - With Ice - Ice Thickness = 0.5 in	25 Iterations
Gust Response Factor : 1.69	Effective Wind Speed : 69.28 (mph)	
Dead Load Factor : 1.00		
Wind Load Factor : 1.00		

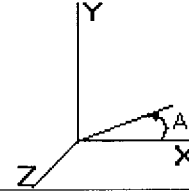
Calculated Forces and Deflections

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	17.409	38.684	0.000	0.000	0.000	1,957.659	0.000	0.000	0.000	0.000
5.00	17.220	37.362	0.000	0.000	0.000	1,870.615	-0.073	0.000	0.073	-0.137
10.00	17.031	36.065	0.000	0.000	0.000	1,784.516	-0.291	0.000	0.291	-0.276
15.00	16.842	34.794	0.000	0.000	0.000	1,699.361	-0.656	0.000	0.656	-0.416
20.00	16.654	33.548	0.000	0.000	0.000	1,615.150	-1.168	0.000	1.168	-0.558
25.00	16.465	32.328	0.000	0.000	0.000	1,531.883	-1.829	0.000	1.829	-0.701
30.00	16.277	31.133	0.000	0.000	0.000	1,449.557	-2.641	0.000	2.641	-0.846
35.00	16.085	29.963	0.000	0.000	0.000	1,368.173	-3.605	0.000	3.605	-0.991
40.00	15.875	28.825	0.000	0.000	0.000	1,287.749	-4.722	0.000	4.722	-1.138
43.75	15.702	27.994	0.000	0.000	0.000	1,228.221	-5.660	0.000	5.660	-1.249
45.00	15.664	27.497	0.000	0.000	0.000	1,208.594	-5.993	0.000	5.993	-1.287
49.00	15.451	25.976	0.000	0.000	0.000	1,145.940	-7.122	0.000	7.122	-1.406
50.00	15.438	25.764	0.000	0.000	0.000	1,130.488	-7.420	0.000	7.420	-1.437
55.00	15.218	24.806	0.000	0.000	0.000	1,053.300	-9.011	0.000	9.011	-1.599
60.00	14.993	23.871	0.000	0.000	0.000	977.210	-10.773	0.000	10.773	-1.761
65.00	14.763	22.960	0.000	0.000	0.000	902.246	-12.703	0.000	12.703	-1.922
70.00	14.529	22.072	0.000	0.000	0.000	828.432	-14.801	0.000	14.801	-2.081
75.00	14.287	21.211	0.000	0.000	0.000	755.788	-17.065	0.000	17.065	-2.239
79.25	14.065	20.508	0.000	0.000	0.000	695.067	-19.119	0.000	19.119	-2.372
80.00	14.041	20.282	0.000	0.000	0.000	684.519	-19.493	0.000	19.493	-2.396
83.75	13.824	19.236	0.000	0.000	0.000	631.866	-21.421	0.000	21.421	-2.510
85.00	13.786	19.043	0.000	0.000	0.000	614.586	-22.083	0.000	22.083	-2.549
90.00	13.545	18.344	0.000	0.000	0.000	545.659	-24.842	0.000	24.842	-2.715
95.00	13.302	17.667	0.000	0.000	0.000	477.936	-27.770	0.000	27.770	-2.873
100.00	13.057	17.011	0.000	0.000	0.000	411.429	-30.859	0.000	30.859	-3.023
105.00	12.810	16.378	0.000	0.000	0.000	346.147	-34.100	0.000	34.100	-3.163
110.00	12.555	15.773	0.000	0.000	0.000	282.101	-37.481	0.000	37.481	-3.289
113.00	10.246	12.998	0.000	0.000	0.000	244.437	-39.569	0.000	39.569	-3.359
115.00	10.142	12.768	0.000	0.000	0.000	223.946	-40.985	0.000	40.985	-3.403
115.50	10.124	12.705	0.000	0.000	0.000	218.875	-41.342	0.000	41.342	-3.413
119.25	9.908	11.996	0.000	0.000	0.000	180.911	-44.052	0.000	44.052	-3.487
120.00	9.876	11.921	0.000	0.000	0.000	173.481	-44.601	0.000	44.601	-3.501
123.00	7.106	9.282	0.000	0.000	0.000	143.855	-46.820	0.000	46.820	-3.561
125.00	7.009	9.098	0.000	0.000	0.000	129.643	-48.319	0.000	48.319	-3.598
130.00	6.756	8.661	0.000	0.000	0.000	94.597	-52.128	0.000	52.128	-3.676
133.00	4.540	6.226	0.000	0.000	0.000	74.328	-54.449	0.000	54.449	-3.715
135.00	4.442	6.059	0.000	0.000	0.000	65.249	-56.010	0.000	56.010	-3.738
140.00	4.197	5.656	0.000	0.000	0.000	43.037	-59.948	0.000	59.948	-3.785
145.00	2.304	3.059	0.000	0.000	0.000	22.055	-63.928	0.000	63.928	-3.816
150.00	2.068	2.689	0.000	0.000	0.000	10.535	-67.931	0.000	67.931	-3.834
155.00	1.883	0.000	0.000	0.000	0.000	0.195	-71.948	0.000	71.948	-3.840

Pole : CT03XC211
 Location: Manchester, CT
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 Shape : 18 Sides
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Sprint Sites USA - NJ

Base Elev : 0.000 (ft)
 Top Dia : 22.00 (in)



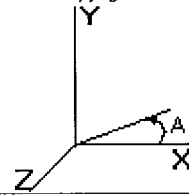
Load Case: Ice	80 mph - With Ice - Ice Thickness = 0.5 in	25 Iterations
Gust Response Factor : 1.69	Effective Wind Speed : 69.28 (mph)	
Dead Load Factor : 1.00		
Wind Load Factor : 1.00		

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	0.576	0.522	0.000	0.000	0.000	29.330	29.920	52.0	0.576
5.00	0.567	0.527	0.000	0.000	0.000	29.134	29.716	52.0	0.572
10.00	0.558	0.531	0.000	0.000	0.000	28.915	29.488	52.0	0.567
15.00	0.550	0.536	0.000	0.000	0.000	28.670	29.234	52.0	0.562
20.00	0.541	0.541	0.000	0.000	0.000	28.395	28.951	52.0	0.557
25.00	0.532	0.546	0.000	0.000	0.000	28.088	28.636	52.0	0.551
30.00	0.524	0.552	0.000	0.000	0.000	27.745	28.285	52.0	0.544
35.00	0.515	0.557	0.000	0.000	0.000	27.363	27.895	52.0	0.537
40.00	0.507	0.562	0.000	0.000	0.000	26.937	27.461	52.0	0.528
43.75	0.501	0.566	0.000	0.000	0.000	26.590	27.108	52.0	0.522
45.00	0.495	0.568	0.000	0.000	0.000	26.470	26.982	52.0	0.519
49.00	0.544	0.652	0.000	0.000	0.000	29.129	29.695	52.0	0.571
50.00	0.542	0.655	0.000	0.000	0.000	29.004	29.568	52.0	0.569
55.00	0.534	0.661	0.000	0.000	0.000	28.327	28.884	52.0	0.556
60.00	0.527	0.667	0.000	0.000	0.000	27.580	28.130	52.0	0.541
65.00	0.519	0.673	0.000	0.000	0.000	26.754	27.299	52.0	0.525
70.00	0.512	0.679	0.000	0.000	0.000	25.843	26.381	52.0	0.508
75.00	0.505	0.685	0.000	0.000	0.000	24.835	25.368	52.0	0.488
79.25	0.499	0.690	0.000	0.000	0.000	23.898	24.427	52.0	0.470
80.00	0.496	0.692	0.000	0.000	0.000	23.727	24.252	52.0	0.467
83.75	0.564	0.817	0.000	0.000	0.000	26.244	26.846	52.0	0.517
85.00	0.562	0.821	0.000	0.000	0.000	25.875	26.476	52.0	0.509
90.00	0.557	0.829	0.000	0.000	0.000	24.277	24.875	52.0	0.479
95.00	0.552	0.837	0.000	0.000	0.000	22.506	23.103	52.0	0.444
100.00	0.547	0.846	0.000	0.000	0.000	20.539	21.137	52.0	0.407
105.00	0.543	0.855	0.000	0.000	0.000	18.352	18.953	52.0	0.365
110.00	0.539	0.864	0.000	0.000	0.000	15.914	16.521	52.0	0.318
113.00	0.453	0.719	0.000	0.000	0.000	14.326	14.831	52.0	0.285
115.00	0.450	0.721	0.000	0.000	0.000	13.469	13.975	52.0	0.269
115.50	0.450	0.722	0.000	0.000	0.000	13.250	13.756	52.0	0.265
119.25	0.533	0.887	0.000	0.000	0.000	13.787	14.402	48.0	0.300
120.00	0.532	0.889	0.000	0.000	0.000	13.352	13.969	48.0	0.291
123.00	0.423	0.652	0.000	0.000	0.000	11.522	11.998	48.0	0.250
125.00	0.420	0.652	0.000	0.000	0.000	10.668	11.146	48.0	0.232
130.00	0.414	0.651	0.000	0.000	0.000	8.343	8.829	48.0	0.184
133.00	0.304	0.447	0.000	0.000	0.000	6.841	7.187	48.0	0.150
135.00	0.300	0.443	0.000	0.000	0.000	6.182	6.528	48.0	0.136
140.00	0.291	0.435	0.000	0.000	0.000	4.393	4.744	48.0	0.099
145.00	0.163	0.248	0.000	0.000	0.000	2.432	2.631	48.0	0.055
150.00	0.149	0.232	0.000	0.000	0.000	1.259	1.464	48.0	0.031
155.00	0.000	0.220	0.000	0.000	0.000	0.025	0.382	48.0	0.008

Pole : CT03XC211
Location: Manchester, CT
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Base Dia : 48.80 (in)
Taper : 0.185 (in/ft)

Sprint Sites USA - NJ
Base Elev : 0.000 (ft)
Top Dia : 22.00 (in)



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	21.579	0.000	30.198	0.000	0.000	2,361.874	35.853	52.0	0.000	0.690
Ice	17.409	0.000	38.684	0.000	0.000	1,957.659	29.920	52.0	0.000	0.576