

JULIE D. KOHLER

PLEASE REPLY TO: Bridgeport
WRITERS DIRECT DIAL: (203) 337-4157
E-Mail Address: jkohler@cohenandwolff.com

July 10, 2014

Attorney Melanie Bachman
Acting Executive Director
Connecticut Siting Council
Ten Franklin Square
New Britain, CT 06051

Re: Notice of Exempt Modification
American Tower Corporation/ MetroPCS co-location
Site ID CTHA342A
605 Willard Avenue, Newington CT

Dear Attorney Bachman:

This office represents MetroPCS Massachusetts, LLC ("MetroPCS") and has been retained to file exempt modification filings with the Connecticut Siting Council on its behalf.

In this case, American Tower Corporation owns the existing monopole telecommunications tower and related facility at 605 Willard Avenue, Newington, Connecticut (Latitude: 41.698372, Longitude: -72.7371474). MetroPCS intends to replace three existing antennas with six new antennas and related equipment at this existing telecommunications facility in Newington ("Newington Facility"). Please accept this letter as notification, pursuant to R.C.S.A. § 16-50j-73, of construction which 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 Mayor Stephen Woods. The Town of Newington is also the property owner.

The existing Newington Facility consists of a 180 foot monopole tower.¹ MetroPCS plans to:

- Remove three existing antennas and mounting pipe at a centerline of 170 feet. MetroPCS will replace that equipment with six new antennas and three TMA (tower mounted amplifiers) on a low profile mount at the 170 foot centerline;
- Install a 6' x 6' concrete pad within the existing lease area;

¹ While the online docket for the Connecticut Siting Council does not provide a docket or petition number for the approval of this structure, it does reference this structure in connection with recent notices of intent captioned EM-VER-094-130114, EM-SPRINT-094-130108, and EM-METROPCS-094-121228B-MA.

1115 BROAD STREET
P.O. Box 1821
BRIDGEPORT, CT 06601-1821
TEL: (203) 368-0211
FAX: (203) 394-9901

158 DEER HILL AVENUE
DANBURY, CT 06810
TEL: (203) 792-2771
FAX: (203) 791-8149

320 POST ROAD WEST
WESTPORT, CT 06880
TEL: (203) 222-1034
FAX: (203) 227-1373

657 ORANGE CENTER ROAD
ORANGE, CT 06477
TEL: (203) 298-4066
FAX: (203) 298-4068

- Relocate a GPS unit;
- Remove 2 cable bridge posts;
- Install a RAC 35 cabinet, on a proposed H-frame;
- Install a replacement PPC/telco cabinet on a proposed H-Frame;
- Reuse an existing MetroPCS cable bridge;
- Install an 3106 equipment cabinet and remove existing equipment; and
- Install coax and hybrid cable and reuse existing coax cables. (See the plans revised to June 26, 2014 attached hereto as Exhibit A).

The existing Newington Facility is structurally capable of supporting MetroPCS' proposed modifications, as indicated in the structural analysis dated June 11, 2014 and attached hereto as Exhibit B.

The planned modifications to the Newington 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 height of the tower. MetroPCS' replacement antennas will be installed at a centerline of 170 feet, merely replacing existing antennas located at the same 170 foot elevation. The enclosed tower drawing confirms that the proposed modification will not increase the height of the tower.

2. The proposed modifications will not require an extension of the site boundaries or lease area, as depicted on Sheet L-1 of Exhibit A. MetroPCS' equipment will be located entirely within the existing fenced compound area.

3. The proposed modification to the Newington Facility will not increase the noise levels at the existing facility by six decibels or more.

4. The operation of the replacement antennas will not increase the total radio frequency (RF) power density, measured at the base of the tower, to a level at or above the applicable standard. According to a Radio Frequency Emissions Analysis Report prepared by EBI dated July 10, 2014 MetroPCS' operations would add 0.388% of the FCC Standard. Therefore, the calculated "worst case" power density for the planned combined operation at the site including all of the proposed antennas would be 57.708% of the FCC Standard as calculated for a mixed frequency site as evidenced by the engineering exhibit attached hereto

July 10, 2014
Site ID CTHA342A
Page 3

as Exhibit C.

For the foregoing reasons, MetroPCS respectfully submit that the proposed replacement antennas and equipment at the Newington Facility constitutes an exempt modification under R.C.S.A. § 16-50j-72(b)(2). Upon acknowledgement by the Council of this proposed exempt modification, MetroPCS shall commence construction approximately sixty days from the date of the Council's notice of acknowledgement.

Sincerely,



Julie D. Kohler, Esq.

cc: Town of Newington, Mayor Stephen Woods
American Tower Corporation
Halene Fujimoto, HPC Wireless

EXHIBIT A

STRUCTURAL NOTE:
 PROPOSED INSTALLATION AND EXIST MONOPOLE TO
 BE VERIFIED FOR STRUCTURAL SUITABILITY OF
 PROPOSED INSTALLATION BY A STATE LICENSED P.E.

TECTONIC
 • PLANNING • SURVEYING
 • ENGINEERING • CONSTRUCTION
 MANAGEMENT
TECTONIC Engineering & Surveying
 Consultants P.C.
 1279 Route 300
 Newburgh, NY 12550
 Phone: (845) 597-6956
 Fax: (845) 597-8703

metroPCS
 35 GRIFFIN ROAD SOUTH
 BLOOMFIELD, CT 06002

APPROVALS

T-MOBILE LANDLORD	DESIGNED BY
RF	JQ
CONSTRUCTION	
PROJECT NUMBER 7010.CT1388	

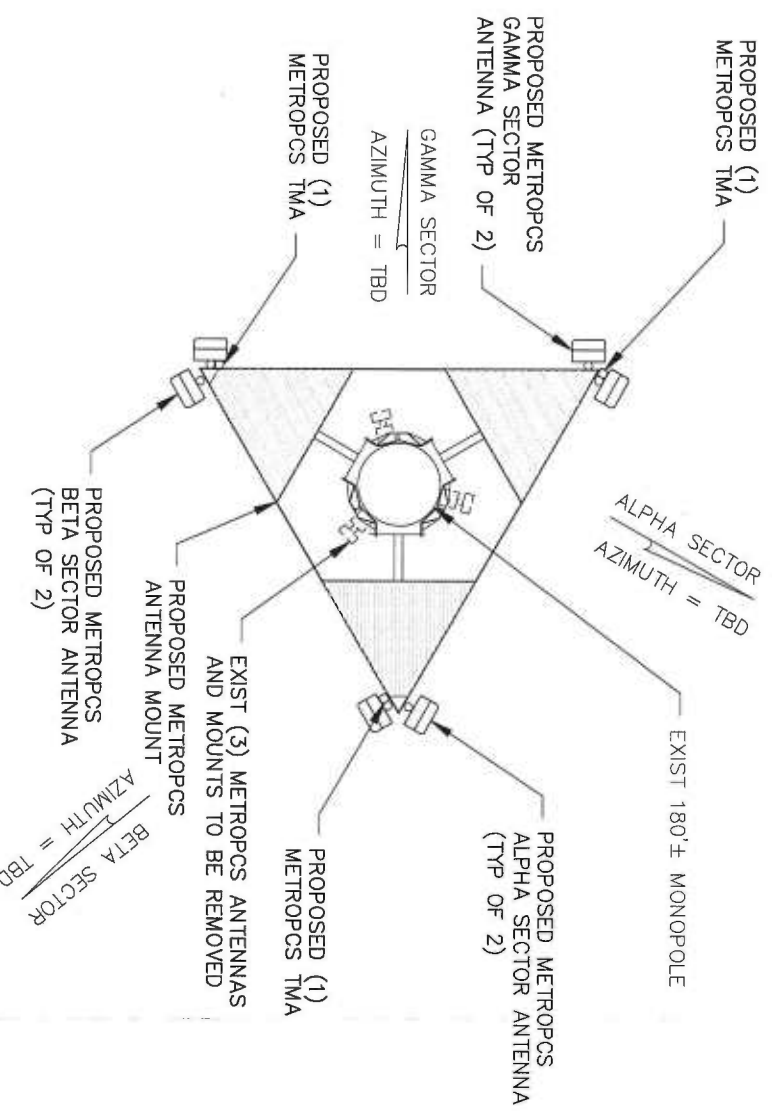
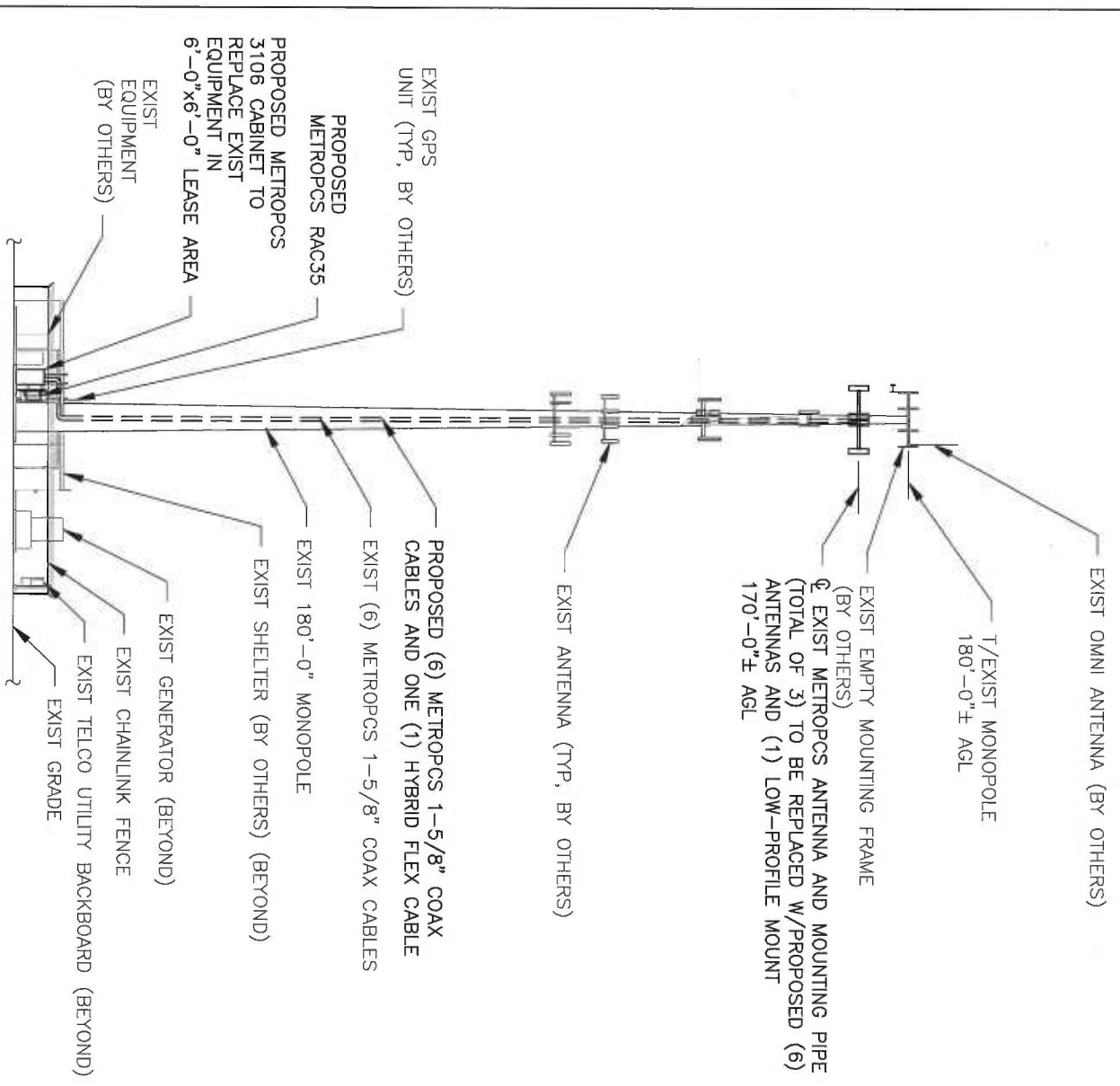
REV	DATE	REVISION	DRAWN BY
1	12/27/13	FOR COMMENT	DC
2	05/26/14	PER COMMENTS	JT

ISSUED BY	DATE

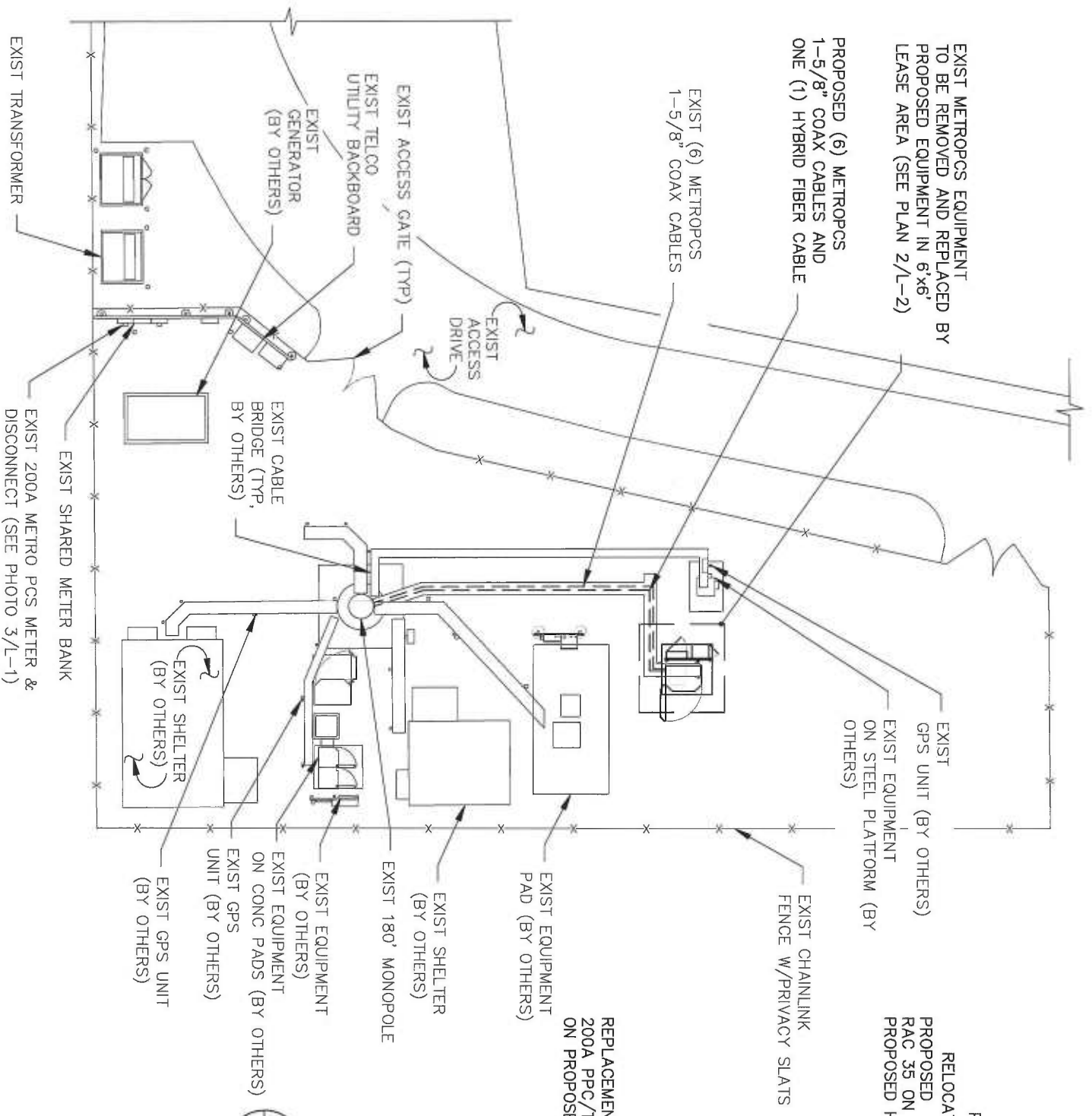
SITE INFORMATION
 CTHA342A
 605 WILLARD AVE
 NEWINGTON, CT 06111

SHEET TITLE
**ELEVATION &
 ANTENNA PLAN**

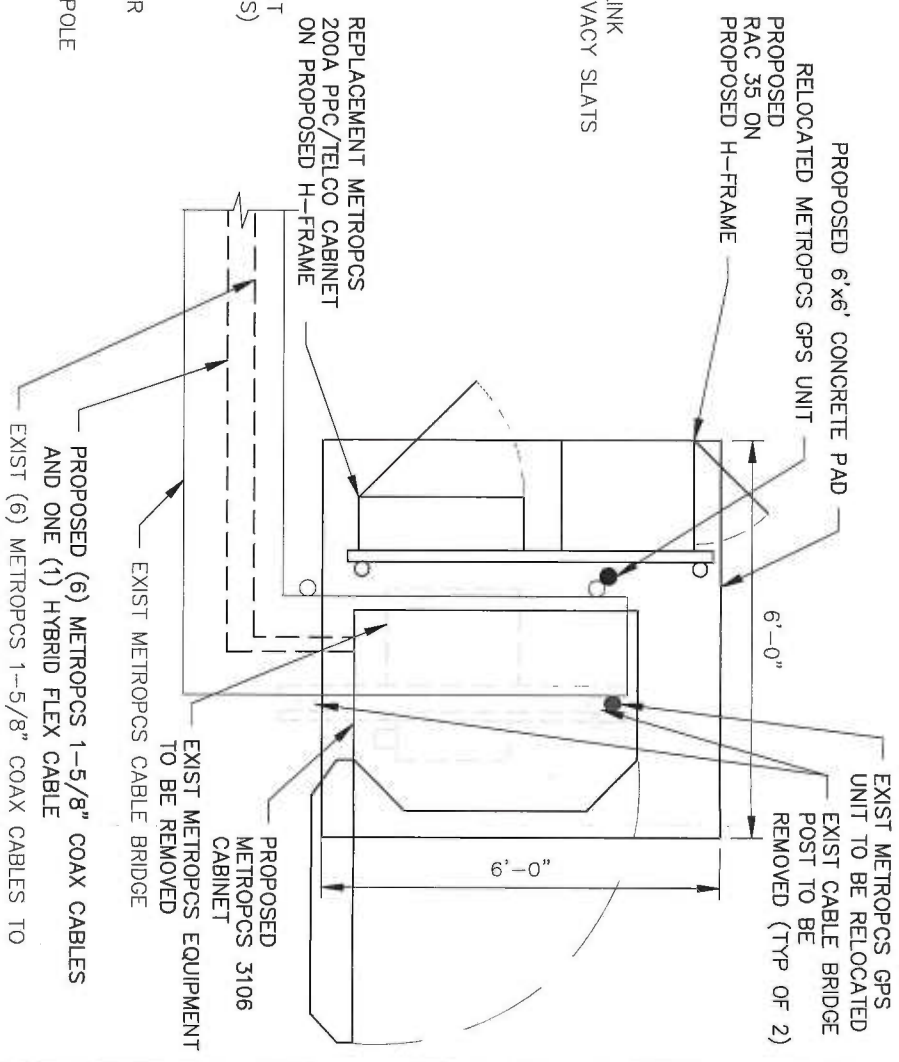
SHEET NUMBER
L-2



CONFIGURATION
2C



1
L-1
SITE PLAN
SCALE: 3/32" = 1'-0"



2
L-1
PROPOSED EQUIPMENT PLAN
SCALE: 1/4" = 1'-0"



3
L-1
PHOTO
SCALE: N.T.S

CONFIGURATION
2C



NORTH NOTE:
NORTH SHOWN HAS BEEN ESTABLISHED USING THE USGS QUADRANGLE 7.5 MINUTE MAPS AND IS APPROXIMATE. VERIFY TRUE NORTH PRIOR TO INSTALLATION OF ANTENNAS.

TECTONIC
PLANNING • SURVEYING
ENGINEERING • CONSTRUCTION MANAGEMENT
TECTONIC Engineering & Surveying Consultants P.C.

1279 Route 300
Newburgh, NY 12550
Phone: (845) 567-6596
Fax: (845) 567-8703

metroPCS
35 GRIFIN ROAD SOUTH
BLOOMFIELD, CT 06002

APPROVALS
T-MOBILE LANDLORD
RF
CONSTRUCTION NUMBER
PROJECT NUMBER
DESIGNED BY
DRAWN BY

REV DATE REVISION
12/27/13 FOR COMMENT DC
06/26/14 PER COMMENTS JT

ISSUED BY
DATE

SITE INFORMATION
CTHA342A
605 WILLARD AVE
NEWINGTON, CT 06111

SHEET TITLE
SITE PLAN & PROPOSED EQUIPMENT PLAN
SHEET NUMBER
L-1

EXHIBIT B

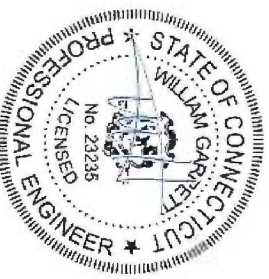


AMERICAN TOWER®
CORPORATION

Structural Analysis Report

Structure : 179 ft Monopole
ATC Site Name : Newington CT, CT
ATC Site Number : 370627
Engineering Number : 58752721
Proposed Carrier : Metro PCS
Carrier Site Name : N/A
Carrier Site Number : CTHA342A
Site Location : 605 Willard Ave.
Newington, CT 06111-0000
41.698372,-72.737147
County : Hartford
Date : June 10, 2014
Max Usage : 89%
Result : Pass

Joseph R. King, E.I.



Jun 11 2014 2:57 PM



Eng. Number 58752721
June 10, 2014

Table of Contents

Introduction	1
Supporting Documents	1
Analysis	1
Conclusion.....	1
Existing and Reserved Equipment.....	2
Equipment to be Removed.....	2
Proposed Equipment	2
Structure Usages	3
Foundations	3
Deflection, Twist, and Sway.....	3
Standard Conditions	4
Calculations	Attached



Introduction

The purpose of this report is to summarize results of a structural analysis performed on the 179 ft monopole to reflect the change in loading by Metro PCS.

Supporting Documents

Tower Drawings	PIRod Engineering File #A-118092, dated August 10, 2001
Foundation Drawing	PIRod Engineering File #A-118092, dated August 10, 2001
Geotechnical Report	Clarence Weiti Association, dated August 1, 2001

Analysis

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

Basic Wind Speed:	85 mph (Fastest Mile)
Basic Wind Speed w/ Ice:	74 mph (Fastest Mile)w/ 1/2" radial ice concurrent
Code:	ANSI/TIA/EIA-222-F / 2003 IBC, Sec. 1609.1.1, Exception (5) & Sec 3108.4 w/ 2005 CT Supplement & 2009 CT Amendment

Conclusion

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

If you have any questions or require additional information, please contact American Tower via email at Engineering@americantower.com. Please include the American Tower site name, site number, and engineering number in the subject line for any questions.

Existing and Reserved Equipment

Elevation ¹ (ft)	Qty	Antenna	Mount Type	Lines	Carrier
180.0	1	20' Dipole	Low Profile Platform	(3) 7/8" Coax	Town Of Newington
170.0	1	8' Yagi	-	(6) 1 5/8" Coax	Metro PCS
160.0	3	RCU	-	(3) 5/8" Coax	-
160.0	3	DragonWave Horizon Compact	-	(3) 0.28" Fiber	-
160.0	3	Samsung U-RAS Premium-F-FRH	Side Arms	(2) 2" Conduit	Clearwire
160.0	3	Argus LLPX310R	-	(3) 1 1/2" Coax	-
154.0	6	Powerwave LGP21401	-	(1) 0.32" Cable	-
154.0	1	Raycap DC6-48-60-18-8F	-	(6) 1 5/8" Coax	-
154.0	6	Ericsson RRUS 11 (Band 12)	-	(2) 0.78" 8 AWG 6	-
154.0	3	Powerwave 7770.00	T-Arms	(1) 0.39" Fiber Trunk	AT&T Mobility
154.0	1	KMW AM-X-CD-16-65-00T-RET	-	(1) 1 1/2" Coax	-
154.0	1	Andrew SBNH-1D6565C	-	(1) 3" Conduit	-
140.0	1	Powerwave P65-17-XLH-RR	-	-	-
140.0	3	Alcatel-Lucent 2X50W RRH w/ Finger Guard	-	-	-
140.0	3	Alcatel-Lucent 1900MHz RRH	Low Profile Platform	(3) 1 1/4" Hybriflex	Sprint Nextel
140.0	1	RFS APXV9ERR18-C-A20	-	-	-
140.0	2	RFS APXVSP18-C-A20	-	-	-
108.0	6	RFS FD9R6004/2C-3L	-	-	-
108.0	3	Alcatel-Lucent RRH2x40-AWS	-	-	-
108.0	3	Antel BXA-171063/8CF	-	-	-
108.0	3	Antel BXA-171063/12CF	Low Profile Platform	(12) 1 5/8" Coax	Verizon
108.0	3	Antel BXA-80063/4CF 5°	-	(1) 1 5/8" Hybriflex	-
108.0	1	RFS DB-T1-6Z-8AB-OZ	-	-	-
108.0	3	Antel BXA-70063-6CF-EDIN-X	-	-	-

Equipment to be Removed

Elevation ¹ (ft)	Qty	Antenna	Mount Type	Lines	Carrier
170.0	3	RFS APXV18-206517LS-C	-	-	Metro PCS

Proposed Equipment

Elevation ¹ (ft)	Qty	Antenna	Mount Type	Lines	Carrier
170.0	3	Ericsson KRY 112 144/1	Antenna	Lines	Carrier
170.0	3	Ericsson AIR 21, 1.3M, B2A B4P	Mount Type	(6) 1 5/8" Coax	-
170.0	3	Ericsson AIR 21, 1.3M, B4A B2P	Low Profile Platform	(1) 1" Hybrid	Metro PCS

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

Install proposed coax inside the pole shaft.



Structure Usages

Structural Component	Controlling Usage	Pass/Fail
Anchor Bolts	81%	Pass
Shaft	89%	Pass
Base Plate	20%	Pass

Foundations

Reaction Component	Original Design Reactions	Analysis Reactions	% of Design
Moment (Kips-Ft)	4,601.2	4,125.7	90%
Shear (Kips)	37.2	33.5	90%

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

Deflection and Sway*

Antenna Elevation (ft)	Deflection (ft)	Sway (Rotation) (°)
170.0	2.915	1.793

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



Standard Conditions

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

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

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

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

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

Job Information	
Pole : 370627	Code : TIA/EA-222 Rev F
Description : Metro PCS	
Client : Newington CT	
Location : Newington CT	
Shape : 18 Sides	
Height : 179.00 (ft)	
Base Elev (ft): 0.00	
Taper: 0.24581(in/ft)	

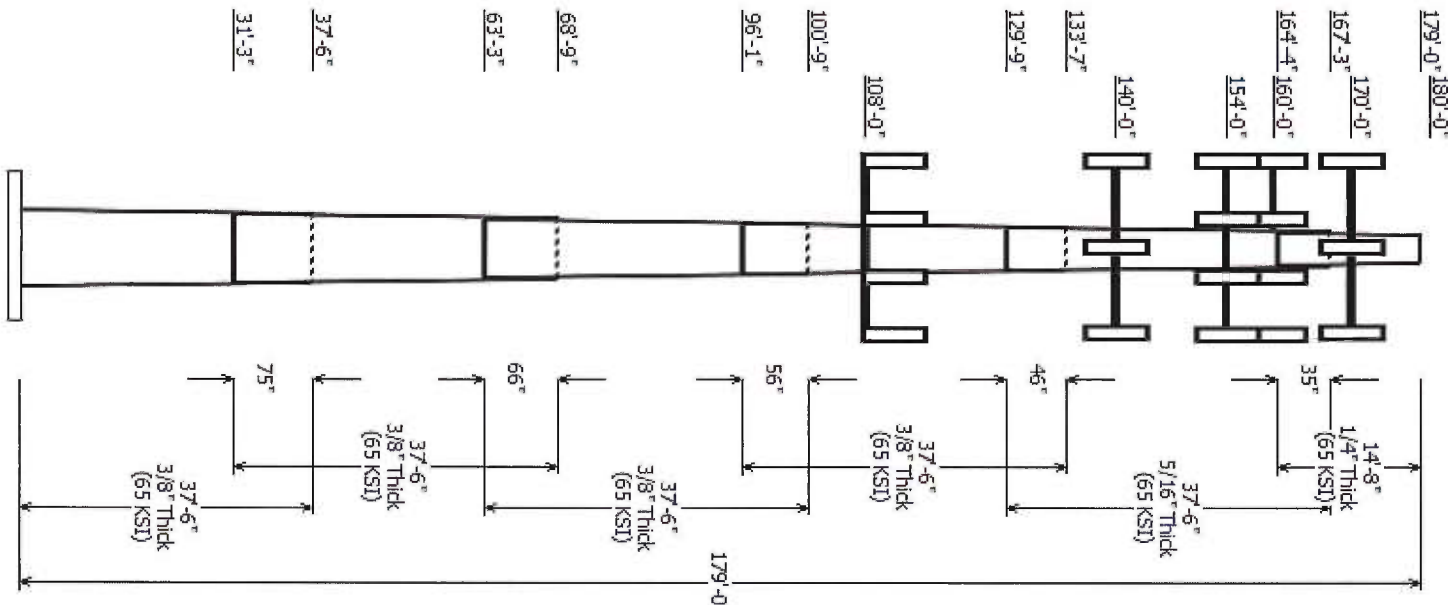
Sections Properties						
Section	Length (ft)	Diameter (in)	Access Flats Top Bottom (in)	Thick Joint Type	Overlap Length (in)	Steel Taper Grade (ksi)
1	37.500	53.72	62.93	0.375	0.000	0.245810
2	37.500	46.78	56.00	0.375	75.000	0.245810
3	37.500	39.67	48.89	0.375	66.000	0.245810
4	37.500	32.35	41.56	0.375	56.000	0.245810
5	37.500	24.70	33.91	0.313	46.000	0.245810
6	14.667	22.31	25.91	0.250	35.000	0.245810

Discrete Appurtenance

Attach Elev (ft)	Force Elev (ft)	Qty	Description
180.000	190.000	1	20' Dipole
180.000	180.000	1	8' Yagi
180.000	170.000	3	Round Low Profile Platform
170.000	170.000	3	Ericsson AIR 21, 1.3M, B4A B2P
170.000	170.000	3	Ericsson AIR 21, 1.3M, B2A B4P
170.000	170.000	3	Ericsson KRY 112 144/1
170.000	170.000	1	Flat Low Profile Platform
160.000	160.000	3	Argus LLPX310R
160.000	160.000	3	Samsung U-RAS Premium-F
160.000	160.000	3	DragonWave A-ANT-18G-2-C
160.000	160.000	3	DragonWave Horizon Compact RCU
160.000	160.000	1	Side Arms
154.000	154.000	1	Powerwave P65-17-XLH-RR
154.000	154.000	1	Andrew SENH-1DS666C
154.000	154.000	1	KMW AM-X-CD-16-65-00T-RET
154.000	154.000	3	Powerwave 7770.00
154.000	154.000	6	Ericsson RRUS 11 (Band 12)
154.000	154.000	1	Raycap DC6-48-60-18-8F
154.000	154.000	6	Powerwave LGP21401
154.000	154.000	3	Round T-Arm
140.000	140.000	2	RFS APXVSP18-C-A20
140.000	140.000	1	RFS APXV9ERR18-C-A20
140.000	140.000	3	Alcatel-Lucent 1900MHz RRH
140.000	140.000	3	Alcatel-Lucent 2X50W RRH w/F
140.000	140.000	1	Round Low Profile Platform
108.000	110.000	3	Antel BXA-70063-6CF-EDIN-X
108.000	110.000	3	Antel BXA-80063/4CF ___ 5°
108.000	110.000	3	Antel BXA-171063/12CF
108.000	110.000	3	Antel BXA-171063/8CF
108.000	110.000	1	RFS DB-T1-6Z-8A-B-0Z
108.000	110.000	3	Alcatel-Lucent RRH2x40-AWS
108.000	110.000	6	RFS FB9R6004/2C-3L
108.000	108.000	1	Flat Low Profile Platform

Linear Appurtenance

Elev (ft) From	To	Description	Exposed To Wind
0.000	108.0	1 5/8" Coax	No
0.000	108.0	1 5/8" Hybriflex	No

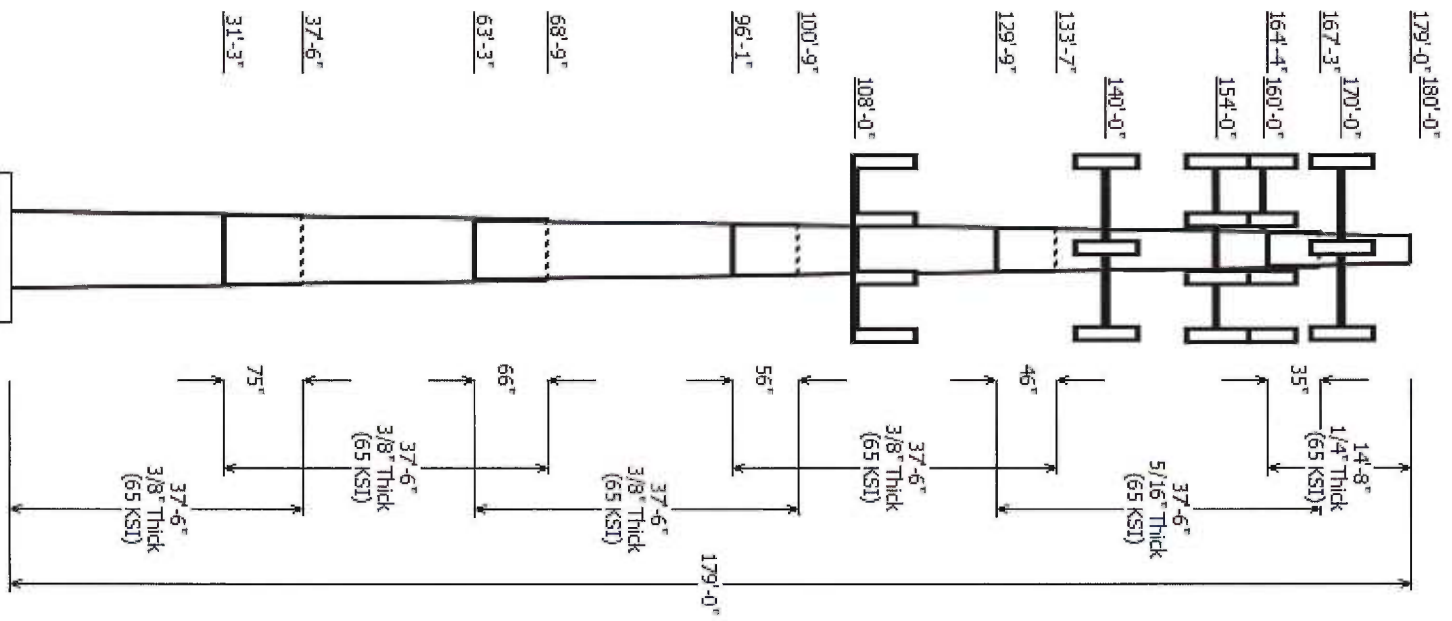


0.000	140.0	1 1/4" Hybriflex	No
0.000	154.0	0.39" Fiber Trunk	No
0.000	154.0	0.78" 8 AWG 6	No
0.000	154.0	1 5/8" Coax	No
0.000	154.0	1/2" Coax	No
0.000	154.0	3" Conduit	No
0.000	160.0	0.28" Fiber	No
0.000	160.0	0.32" Cable	No
0.000	160.0	1/2" Coax	No
0.000	160.0	2" Conduit	No
0.000	160.0	5/8" Coax	No
0.000	170.0	1 5/8" Coax	No
0.000	170.0	1 5/8" Coax	No
0.000	170.0	1" Hybrid	No
0.000	180.0	7/8" Coax	No

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

Reactions			
Load Case	Moment (kip-ft)	Shear (kip)	Axial (kip)
No Ice	4125.69	33.50	46.09
Ice	3421.35	27.20	63.72
Twist/Sway	1428.95	11.59	46.13

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



179'-0" 180'-0"

167'-3" 170'-0"

164'-4" 160'-0"

154'-0"

140'-0"

133'-7"

129'-9"

108'-0"

100'-9"

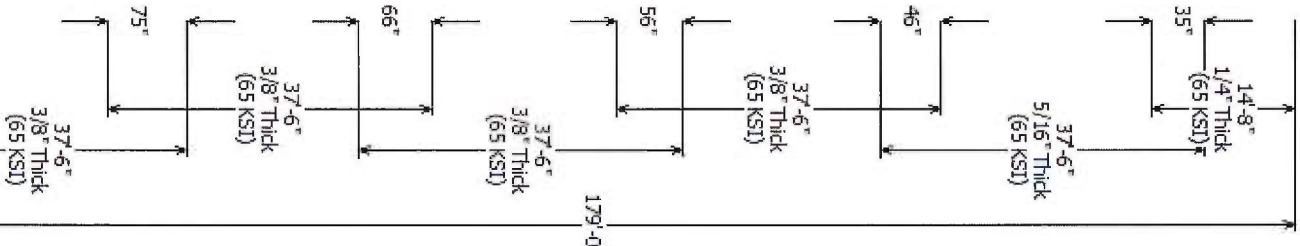
96'-1"

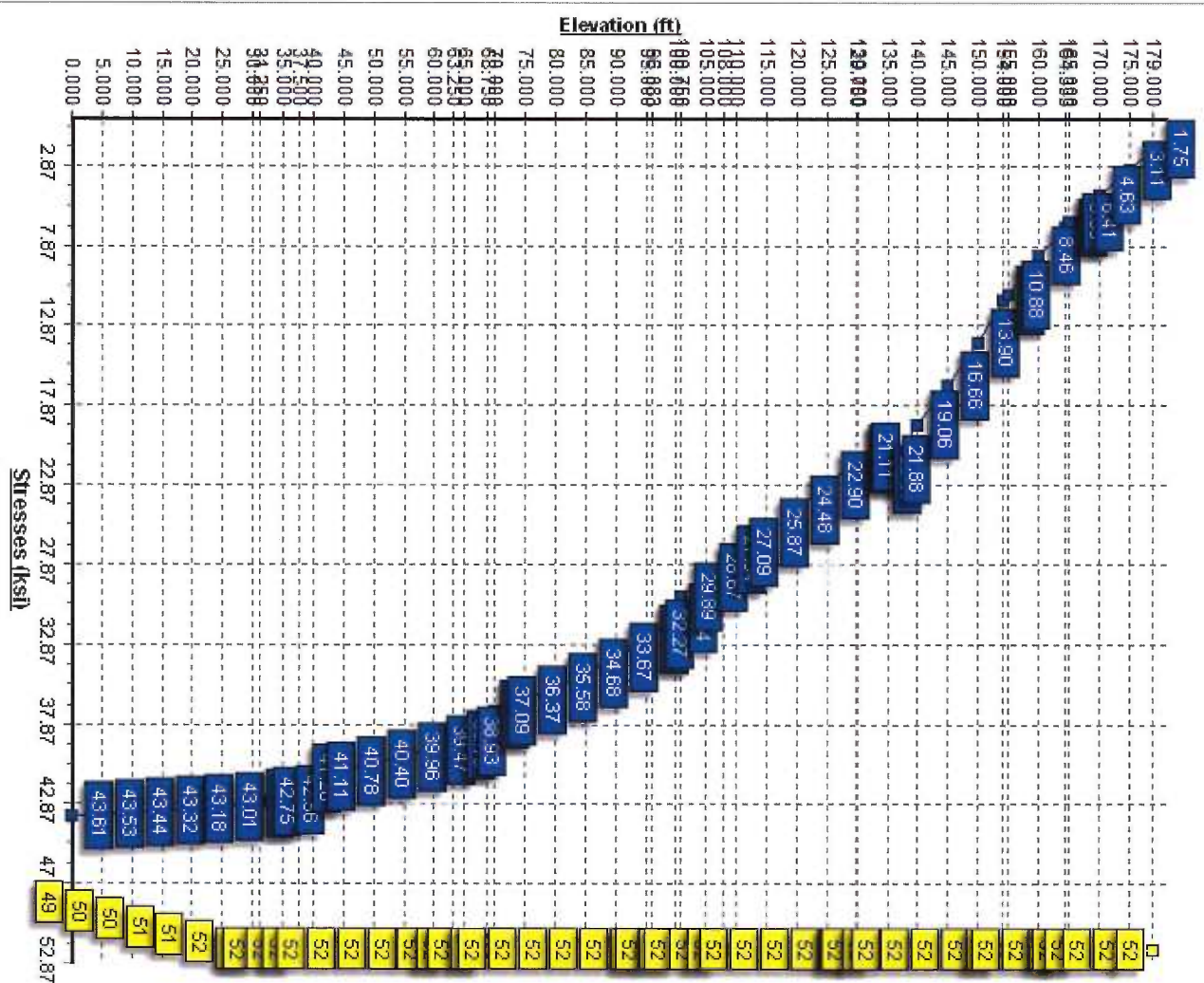
68'-9"

63'-3"

37'-6"

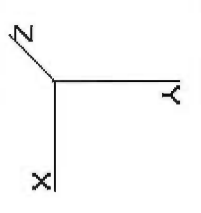
31'-3"





Pole : 370627
 Location : Newington CT
 Height : 179.0 (ft)
 Base Dia : 62.93 (in)
 Top Dia : 22.31 (in)
 Shape : 18 Sides
 Taper : 0.245810 (in/ft)

@ 2007 - 2014 by ATC IP LLC. All rights reserved.



Base Elev : 0.000 (ft)

Linear Appurtenance Properties

Elev From (ft)	Elev To (ft)	Description	No Ice		Ice		Exposed To Wind
			Weight (lb/ft)	CaAa (s/ft)	Weight (lb/ft)	CaAa (s/ft)	
0.00	180.00	(3) 7/8" Coax	0.33	0.00	0.00	0.00	N
0.00	170.00	(6) 1 5/8" Coax	0.82	0.00	0.00	0.00	N
0.00	170.00	(6) 1 5/8" Coax	0.82	0.00	0.00	0.00	N
0.00	170.00	(1) 1" Hybrid	0.65	0.00	0.00	0.00	N
0.00	160.00	(3) 0.28" Fiber	0.03	0.00	0.00	0.00	N
0.00	160.00	(1) 0.32" Cable	0.06	0.00	0.00	0.00	N
0.00	160.00	(3) 1/2" Coax	0.15	0.00	0.00	0.00	N
0.00	160.00	(2) 2" Conduit	3.65	0.00	0.00	0.00	N
0.00	160.00	(3) 5/8" Coax	0.15	0.00	0.00	0.00	N
0.00	154.00	(1) 0.39" Fiber Trunk	0.07	0.00	0.00	0.00	N
0.00	154.00	(2) 0.78" 8 AWG 6	0.59	0.00	0.00	0.00	N
0.00	154.00	(6) 1 5/8" Coax	0.82	0.00	0.00	0.00	N
0.00	154.00	(1) 1/2" Coax	0.15	0.00	0.00	0.00	N
0.00	154.00	(1) 3" Conduit	7.58	0.00	0.00	0.00	N
0.00	140.00	(3) 1 1/4" Hybridflex	1.00	0.00	0.00	0.00	N
0.00	108.00	(12) 1 5/8" Coax	0.82	0.00	0.00	0.00	N
0.00	108.00	(1) 1 5/8" Hybridflex	1.30	0.00	0.00	0.00	N
Total Weight			2,882.40 (lb)		0.00 (lb)		

Pole : 370627
 Location : Newington CT
 Height : 179.0 (ft)
 Base Dia : 62.93 (in)
 Top Dia : 22.31 (in)
 Shape : 18 Sides
 Taper : 0.245810 (in/ft)

Code: TIA/EIA-222 Rev F
 Base Elev : 0.000 (ft)

6/10/2014 5:35:11 PM
 Page : 4

@ 2007 - 2014 by ATC IP LLC. All rights reserved.

Load Case: No Ice 85.00 mph Wind with No Ice 25 Iterations

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

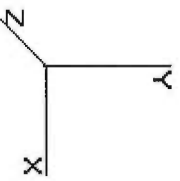
Shaft Segment Forces

Seg Top Elev (ft)	Description	Kz (psf)	qz (psf)	qzGh (psf)	C (mph-ft)	Cf	Ice		Wind Force X (lb)	Dead Load (lb)	Tot Dead Load (lb)		
							Thick (in)	Tributary (ft)					
0.00		1.00	18.496	31.25	445.80	0.650	0.000	0.00	0.00	0.00	0.00		
5.00		1.00	18.496	31.25	437.10	0.650	0.000	5.00	25.968	16.88	527.6		
10.00		1.00	18.496	31.25	428.39	0.650	0.000	5.00	25.456	16.55	517.2		
15.00		1.00	18.496	31.25	419.69	0.650	0.000	5.00	24.944	16.21	506.8		
20.00		1.00	18.496	31.25	410.98	0.650	0.000	5.00	24.432	15.88	496.4		
25.00		1.00	18.496	31.25	402.27	0.650	0.000	5.00	23.919	15.55	486.0		
30.00		1.00	18.496	31.25	393.57	0.650	0.000	5.00	23.407	15.21	475.6		
31.25	Bot - Section 2	1.00	18.496	31.25	391.39	0.650	0.000	1.25	5.772	3.75	117.3		
35.00		1.01	18.810	31.78	388.11	0.650	0.000	3.75	17.358	11.28	358.7		
37.50	Top - Section 1	1.03	19.184	32.42	387.52	0.650	0.000	2.50	11.412	7.42	240.5		
40.00		1.05	19.541	33.02	392.10	0.650	0.000	2.50	11.284	7.33	242.2		
45.00		1.09	20.210	34.15	389.65	0.650	0.000	5.00	22.184	14.42	492.5		
50.00		1.12	20.827	35.19	386.32	0.650	0.000	5.00	21.671	14.09	485.8		
55.00		1.15	21.402	36.17	382.25	0.650	0.000	5.00	21.159	13.75	477.5		
60.00		1.18	21.941	37.08	377.55	0.650	0.000	5.00	20.647	13.42	471.6		
63.25	Bot - Section 3	1.20	22.274	37.64	374.20	0.650	0.000	3.25	13.146	8.54	321.7		
65.00		1.21	22.449	37.93	372.30	0.650	0.000	1.75	7.098	4.61	175.0		
68.75	Top - Section 2	1.23	22.811	38.55	368.05	0.650	0.000	3.75	15.000	9.75	375.9		
70.00		1.24	22.929	38.75	372.49	0.650	0.000	1.25	4.936	3.21	124.3		
75.00		1.26	23.386	39.52	366.39	0.650	0.000	5.00	19.423	12.63	499.0		
80.00		1.28	23.821	40.25	359.90	0.650	0.000	5.00	18.911	12.29	494.9		
85.00		1.31	24.237	40.96	353.07	0.650	0.000	5.00	18.399	11.96	489.9		
90.00		1.33	24.636	41.63	345.91	0.650	0.000	5.00	17.887	11.63	484.1		
95.00		1.35	25.020	42.28	338.47	0.650	0.000	5.00	17.375	11.29	477.5		
96.08	Bot - Section 4	1.35	25.101	42.42	336.82	0.650	0.000	1.08	3.697	2.40	101.9		
100.0		1.37	25.389	42.90	330.76	0.650	0.000	3.92	13.411	8.72	374.0		
100.7	Top - Section 3	1.37	25.443	42.99	329.58	0.650	0.000	0.75	2.532	1.65	70.8		
105.0		1.39	25.745	43.51	329.07	0.650	0.000	4.25	14.131	9.19	399.6		
108.0	Appertunance(s)	1.40	25.953	43.86	324.21	0.650	0.000	3.00	9.752	6.34	278.0		
110.0		1.41	26.090	44.09	320.93	0.650	0.000	2.00	6.399	4.16	183.4		
115.0		1.42	26.423	44.65	312.56	0.650	0.000	5.00	15.639	10.17	453.9		
120.0		1.44	26.747	45.20	304.00	0.650	0.000	5.00	15.127	9.83	444.4		
125.0		1.46	27.060	45.73	295.25	0.650	0.000	5.00	14.615	9.50	434.4		
129.7	Bot - Section 5	1.47	27.350	46.22	286.77	0.650	0.000	4.75	13.410	8.72	402.9		
130.0		1.48	27.365	46.24	286.32	0.650	0.000	0.25	0.706	0.46	21.2		
133.5	Top - Section 4	1.49	27.579	46.60	279.82	0.650	0.000	3.58	9.979	6.49	302.3		
135.0		1.49	27.662	46.74	282.63	0.650	0.000	1.42	3.873	2.52	117.7		
140.0	Appertunance(s)	1.51	27.951	47.23	273.41	0.650	0.000	5.00	13.339	8.67	409.6		
145.0		1.52	28.233	47.71	264.02	0.650	0.000	5.00	12.827	8.34	397.8		
150.0		1.54	28.507	48.17	254.50	0.650	0.000	5.00	12.315	8.00	385.6		
154.0	Appertunance(s)	1.55	28.723	48.54	246.78	0.650	0.000	4.00	9.483	6.16	299.2		
155.0		1.55	28.776	48.63	244.83	0.650	0.000	1.00	2.320	1.51	73.3		
160.0	Appertunance(s)	1.57	29.038	49.07	235.04	0.650	0.000	5.00	11.291	7.34	360.1		
164.3	Bot - Section 6	1.58	29.260	49.45	226.45	0.650	0.000	4.33	9.371	6.09	301.2		
165.0		1.58	29.294	49.50	225.12	0.650	0.000	0.67	1.435	0.93	46.2		
167.2	Top - Section 5	1.59	29.408	49.69	220.61	0.650	0.000	2.25	4.777	3.11	154.3		
170.0	Appertunance(s)	1.59	29.545	49.93	219.55	0.650	0.000	2.75	5.698	3.70	184.9		
175.0		1.61	29.791	50.34	209.42	0.650	0.000	5.00	9.963	6.48	326.0		
179.0	Appertunance(s)	1.62	29.984	50.67	201.22	0.650	0.000	4.00	7.601	4.94	250.4		
Totals:										179.00	16,167.3	0.0	33,390.4

Pole : 370627
 Location : Newington CT
 Height : 179.0 (ft)
 Base Dia : 62.93 (in)
 Top Dia : 22.31 (in)
 Shape : 18 Sides
 Taper : 0.245810 (in/ft)

Code: TIA/EIA-222 Rev F
 6/10/2014 5:35:11 PM
 Page: 5

Base Elev : 0.000 (ft)



© 2007 - 2014 by ATC IP LLC. All rights reserved.

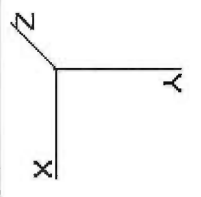
Load Case: No Ice 85.00 mph Wind with No Ice 25 Iterations
 Gust Response Factor : 1.69
 Dead Load Factor : 1.00
 Wind Load Factor : 1.00

Discrete Appurtenance Segment Forces

Ele (ft)	Description	Qty	qz (psf)	qzGh (psf)	Orientation Factor	Total EPAA (sf)	Horiz Ecc (ft)	Vert Ecc (ft)	Wind FX (lb)	Mom Y (lb-ft)	Mom Z (lb-ft)	Dead Load (lb)
108.0	Flat Low Profile Pla	1	25.953	43.861	1.00	26.10	0.000	0.000	1,144.78	0.00	0.00	1,500.00
108.0	RFS FD9R6004/2C-3L	6	26.090	44.092	0.50	1.11	0.000	2.000	48.94	0.00	97.88	18.60
108.0	Alcatel-Lucent RRH2x	3	26.090	44.092	0.67	5.05	0.000	2.000	222.45	0.00	444.90	132.00
108.0	RFS DB-T1-6Z-8AB-0Z	1	26.090	44.092	0.67	3.75	0.000	2.000	165.43	0.00	330.87	110.00
108.0	Antel BXA-171063/8CF	3	26.090	44.092	0.90	7.83	0.000	2.000	345.24	0.00	690.48	31.50
108.0	Antel BXA-171063/12C	3	26.090	44.092	0.88	12.65	0.000	2.000	557.57	0.00	1,115.14	45.00
108.0	Antel BXA-70063-6CF-	3	26.090	44.092	0.72	11.15	0.000	2.000	491.53	0.00	983.05	29.70
140.0	Round Low Profile Pl	1	27.951	47.237	1.00	17.86	0.000	2.000	787.32	0.00	1,574.64	51.00
140.0	Alcatel-Lucent 2X50W	3	27.951	47.237	0.67	21.70	0.000	0.000	1,025.04	0.00	0.00	1,500.00
140.0	Alcatel-Lucent 1900M	3	27.951	47.237	0.67	4.82	0.000	0.000	227.87	0.00	0.00	192.00
140.0	RFS APXV9ERRR18-C-	1	27.951	47.237	0.85	7.02	0.000	0.000	360.80	0.00	0.00	132.00
140.0	RFS APXVSP18-C-	2	27.951	47.237	0.82	13.55	0.000	0.000	639.89	0.00	0.00	62.00
154.0	Round T-Arm	3	28.723	48.541	0.67	19.50	0.000	0.000	946.40	0.00	0.00	750.00
154.0	Powerwave LGP21401	6	28.723	48.541	0.50	3.87	0.000	0.000	187.85	0.00	0.00	84.60
154.0	Raycap DC6-48-60-18-	1	28.723	48.541	1.00	1.47	0.000	0.000	71.36	0.00	0.00	31.80
154.0	Ericsson RRUS 11 (Ba	6	28.723	48.541	0.67	11.82	0.000	0.000	573.70	0.00	0.00	330.00
154.0	Powerwave 7770.00	3	28.723	48.541	0.75	13.23	0.000	0.000	642.20	0.00	0.00	105.00
154.0	KMW AM-X-CD-16-65-	1	28.723	48.541	0.78	6.44	0.000	0.000	312.74	0.00	0.00	48.50
154.0	Andrew SBNH-	1	28.723	48.541	0.81	9.27	0.000	0.000	450.19	0.00	0.00	60.80
154.0	Powerwave P65-17-	1	29.038	49.074	0.80	9.18	0.000	0.000	445.41	0.00	0.00	59.00
160.0	Side Arms	1	29.038	49.074	1.00	8.50	0.000	0.000	417.13	0.00	0.00	560.00
160.0	RCU	3	29.038	49.074	0.50	0.24	0.000	0.000	11.78	0.00	0.00	3.00
160.0	DragonWave Horizon	3	29.038	49.074	0.50	1.26	0.000	0.000	61.83	0.00	0.00	34.50
160.0	DragonWave A-AANT-	3	29.038	49.074	0.67	9.43	0.000	0.000	462.62	0.00	0.00	81.30
160.0	Samsung U-RAS	3	29.038	49.074	0.50	2.73	0.000	0.000	133.97	0.00	0.00	99.00
160.0	Argus LLPX310R	3	29.038	49.074	0.70	10.14	0.000	0.000	497.76	0.00	0.00	86.10
170.0	Flat Low Profile Pla	1	29.545	49.931	1.00	26.10	0.000	0.000	1,303.21	0.00	0.00	1,500.00
170.0	Ericsson KRY 112 144	3	29.545	49.931	0.50	0.62	0.000	0.000	30.71	0.00	0.00	33.00
170.0	Ericsson AIR 21, 1.3	3	29.545	49.931	0.83	16.26	0.000	0.000	811.87	0.00	0.00	249.00
170.0	Ericsson AIR 21, 1.3	3	29.545	49.931	0.83	16.41	0.000	0.000	819.33	0.00	0.00	244.50
180.0	Round Low Profile Pl	1	30.032	50.754	1.00	21.70	0.000	0.000	1,101.35	0.00	1,101.35	1,500.00
180.0	8' Yaegi	1	30.032	50.754	1.00	12.00	0.000	0.000	609.04	0.00	609.04	30.00
180.0	20' Dipole	1	30.499	51.544	1.00	20.00	0.000	10.000	1,030.87	0.00	11,339.6	60.00
									17,269.83			9,867.90

Pole : 370627
 Location : Newington CT
 Height : 179.0 (ft)
 Base Dia : 62.93 (in)
 Top Dia : 22.31 (in)
 Shape : 18 Sides
 Taper : 0.245810 (in/ft)

Code: TIA/EIA-222 Rev F
 Base Elev : 0.000 (ft)
 © 2007 - 2014 by ATC IP LLC. All rights reserved.



Load Case: No Ice 85.00 mph Wind with No Ice 25 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	527.61	1,349.40	0.00	0.00
10.00	517.21	1,324.51	0.00	0.00
15.00	506.80	1,299.62	0.00	0.00
20.00	496.40	1,274.73	0.00	0.00
25.00	485.99	1,249.85	0.00	0.00
30.00	475.59	1,224.96	0.00	0.00
31.25	117.27	302.35	0.00	0.00
35.00	358.65	1,735.62	0.00	0.00
37.50	240.49	1,141.52	0.00	0.00
40.00	242.22	592.07	0.00	0.00
45.00	492.49	1,165.48	0.00	0.00
50.00	495.82	1,140.59	0.00	0.00
55.00	497.47	1,115.70	0.00	0.00
60.00	497.65	1,090.82	0.00	0.00
63.25	321.66	695.68	0.00	0.00
65.00	175.05	712.57	0.00	0.00
68.75	375.87	1,506.40	0.00	0.00
70.00	124.32	261.72	0.00	0.00
75.00	498.97	1,031.34	0.00	0.00
80.00	494.86	1,006.45	0.00	0.00
85.00	489.87	981.56	0.00	0.00
90.00	484.07	956.67	0.00	0.00
95.00	477.54	931.78	0.00	0.00
96.08	101.94	198.61	0.00	0.00
100.0	374.02	1,354.10	0.00	0.00
100.7	70.77	255.81	0.00	0.00
105.0	399.65	761.03	0.00	0.00
108.0	4,041.29	2,444.17	0.00	5,236.95
110.0	183.39	341.70	0.00	0.00
115.0	453.94	836.82	0.00	0.00
120.0	444.45	811.93	0.00	0.00
125.0	434.44	787.04	0.00	0.00
129.7	402.89	724.64	0.00	0.00
130.0	21.22	65.85	0.00	0.00
133.5	302.30	931.25	0.00	0.00
135.0	117.67	179.24	0.00	0.00
140.0	2,994.81	2,619.31	0.00	0.00
145.0	397.81	593.57	0.00	0.00
150.0	385.64	572.83	0.00	0.00
154.0	3,929.06	1,913.03	0.00	0.00
155.0	73.32	99.55	0.00	0.00
160.0	1,945.24	1,349.20	0.00	0.00
164.3	301.21	386.31	0.00	0.00
165.0	46.19	104.10	0.00	0.00
167.2	154.32	346.45	0.00	0.00
170.0	3,150.04	2,216.46	0.00	0.00
175.0	326.03	321.06	0.00	0.00
179.0	2,991.64	1,834.90	0.00	13,050.01

Pole : 370627

Code: TIA/EIA-222 Rev F

6/10/2014 5:35:11 PM

Page: 7

Location : Newington CT

Height : 179.0 (ft)

Base Dia : 62.93 (in)

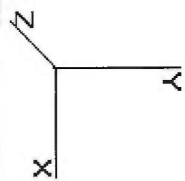
Top Dia : 22.31 (in)

Shape : 18 Sides

Taper : 0.245810 (in/ft)

Base Elev : 0.000 (ft)

@ 2007 - 2014 by ATC IP LLC. All rights reserved.



Load Case: No Ice

85.00 mph Wind with No Ice

25 Iterations

Gust Response Factor : 1.69

Dead Load Factor : 1.00

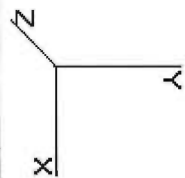
Wind Load Factor : 1.00

Totals : 33,437.14 46,140.36 0.00 18,286.96

Pole : 370627
 Location : Newington CT
 Height : 179.0 (ft)
 Base Dia : 62.93 (in)
 Top Dia : 22.31 (in)
 Shape : 18 Sides
 Taper : 0.245810 (in/ft)

Base Elev : 0.000 (ft)

© 2007 - 2014 by ATC IP LLC. All rights reserved.



Code: TIA/EIA-222 Rev F
 6/10/2014 5:35:11 PM
 Page: 8

Load Case: No Ice 85.00 mph Wind with No Ice 25 Iterations
 Gust Response Factor : 1.69
 Dead Load Factor : 1.00
 Wind Load Factor : 1.00

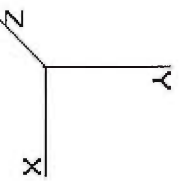
Calculated Shaft Forces and Deflections

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	-33.500	-46.093	0.000	0.000	0.000	-4.125,694	0.000	0.000	0.000	0.000
5.00	-33.094	-44.654	0.000	0.000	0.000	-3.958,196	-0.084	0.000	0.084	-0.156
10.00	-32.692	-43.240	0.000	0.000	0.000	-3.792,731	-0.333	0.000	0.333	-0.315
15.00	-32.296	-41.852	0.000	0.000	0.000	-3.629,274	-0.750	0.000	0.750	-0.477
20.00	-31.904	-40.490	0.000	0.000	0.000	-3.467,800	-1.338	0.000	1.338	-0.641
25.00	-31.518	-39.154	0.000	0.000	0.000	-3.308,283	-2.100	0.000	2.100	-0.809
30.00	-31.094	-37.879	0.000	0.000	0.000	-3.150,697	-3.038	0.000	3.038	-0.979
31.25	-31.029	-37.531	0.000	0.000	0.000	-3.111,831	-3.301	0.000	3.301	-1.023
35.00	-30.706	-35.744	0.000	0.000	0.000	-2.995,476	-4.157	0.000	4.157	-1.154
37.50	-30.495	-34.560	0.000	0.000	0.000	-2.918,714	-4.786	0.000	4.786	-1.243
40.00	-30.317	-33.904	0.000	0.000	0.000	-2.842,477	-5.461	0.000	5.461	-1.333
45.00	-29.895	-32.662	0.000	0.000	0.000	-2.690,893	-6.949	0.000	6.949	-1.504
50.00	-29.463	-31.446	0.000	0.000	0.000	-2.541,424	-8.617	0.000	8.617	-1.677
55.00	-29.025	-30.256	0.000	0.000	0.000	-2.394,111	-10.468	0.000	10.468	-1.853
60.00	-28.566	-29.110	0.000	0.000	0.000	-2.248,988	-12.504	0.000	12.504	-2.031
63.25	-28.264	-28.381	0.000	0.000	0.000	-2.156,151	-13.927	0.000	13.927	-2.149
65.00	-28.111	-27.626	0.000	0.000	0.000	-2.106,690	-14.728	0.000	14.728	-2.214
68.75	-27.717	-26.092	0.000	0.000	0.000	-2.001,275	-16.522	0.000	16.522	-2.351
70.00	-27.633	-25.781	0.000	0.000	0.000	-1.966,629	-17.144	0.000	17.144	-2.398
75.00	-27.165	-24.690	0.000	0.000	0.000	-1.828,469	-19.749	0.000	19.749	-2.573
80.00	-26.696	-23.626	0.000	0.000	0.000	-1.692,647	-22.537	0.000	22.537	-2.748
85.00	-26.228	-22.589	0.000	0.000	0.000	-1.559,168	-25.509	0.000	25.509	-2.924
90.00	-25.760	-21.581	0.000	0.000	0.000	-1.428,031	-28.664	0.000	28.664	-3.099
95.00	-25.270	-20.630	0.000	0.000	0.000	-1.299,231	-32.003	0.000	32.003	-3.274
96.08	-25.188	-20.399	0.000	0.000	0.000	-1.271,856	-32.751	0.000	32.751	-3.313
100.0	-24.762	-19.034	0.000	0.000	0.000	-1.173,204	-35.525	0.000	35.525	-3.450
100.7	-24.705	-18.745	0.000	0.000	0.000	-1.154,632	-36.069	0.000	36.069	-3.477
105.0	-24.296	-17.959	0.000	0.000	0.000	-1.049,640	-39.230	0.000	39.230	-3.623
108.0	-20.129	-15.751	0.000	0.000	0.000	-971,514	-41.537	0.000	41.537	-3.720
110.0	-19.953	-15.384	0.000	0.000	0.000	-931,257	-43.109	0.000	43.109	-3.784
115.0	-19.483	-14.527	0.000	0.000	0.000	-831,492	-47.153	0.000	47.153	-3.939
120.0	-19.019	-13.699	0.000	0.000	0.000	-734,078	-51.357	0.000	51.357	-4.091
125.0	-18.560	-12.900	0.000	0.000	0.000	-638,986	-55.718	0.000	55.718	-4.238
130.0	-18.119	-12.185	0.000	0.000	0.000	-550,827	-60.000	0.000	60.000	-4.380
139.0	-18.104	-12.104	0.000	0.000	0.000	-481,426	-63.553	0.000	63.553	-4.479
133.5	-17.744	-11.178	0.000	0.000	0.000	-456,290	-64.886	0.000	64.886	-4.517
135.0	-17.630	-10.981	0.000	0.000	0.000	-456,290	-64.886	0.000	64.886	-4.517
140.0	-14.455	-8.577	0.000	0.000	0.000	-368,141	-69.689	0.000	69.689	-4.656
145.0	-14.026	-7.989	0.000	0.000	0.000	-295,867	-74.629	0.000	74.629	-4.781
150.0	-13.606	-7.428	0.000	0.000	0.000	-225,737	-79.692	0.000	79.692	-4.892
154.0	-9.531	-5.853	0.000	0.000	0.000	-171,315	-83.821	0.000	83.821	-4.969
155.0	-9.455	-5.752	0.000	0.000	0.000	-161,784	-84.862	0.000	84.862	-4.987
160.0	-7.404	-4.570	0.000	0.000	0.000	-114,511	-90.122	0.000	90.122	-5.063
164.3	-7.072	-4.208	0.000	0.000	0.000	-82,427	-94.738	0.000	94.738	-5.117
165.0	-7.018	-4.107	0.000	0.000	0.000	-77,713	-95.452	0.000	95.452	-5.125
167.2	-6.835	-3.773	0.000	0.000	0.000	-61,923	-97.870	0.000	97.870	-5.148
170.0	-3.499	-1.847	0.000	0.000	0.000	-43,128	-100.839	0.000	100.839	-5.171
175.0	-3.146	-1.555	0.000	0.000	0.000	-25,634	-106.266	0.000	106.266	-5.205
179.0	-2.992	0.000	0.000	0.000	0.000	-13,080	-110.629	0.000	110.629	-5.223

Pole : 370627
 Location : Newington CT
 Height : 179.0 (ft)
 Base Dia : 62.93 (in)
 Top Dia : 22.31 (in)
 Shape : 18 Sides
 Taper : 0.245810 (in/ft)

Code: TIA/EIA-222 Rev F
 6/10/2014 5:35:11 PM
 Page: 9

© 2007 - 2014 by ATC IP LLC. All rights reserved.



Load Case: No Ice 85.00 mph Wind with No Ice 25 Iterations
 Gust Response Factor : 1.69
 Dead Load Factor : 1.00
 Wind Load Factor : 1.00

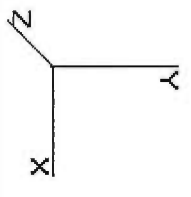
Calculated Stresses

Seg Elev (ft)	Axial (Y) (ksi)	Shear (X) (ksi)	Shear (Z) (ksi)	Applied Stresses			Combined (ksi)	Allowable Stress (Fb) (ksi)	Stress Ratio	
				Torsion (ksi)	Bending (X) (ksi)	Bending (Z) (ksi)				
0.00	0.62	0.91	0.00	0.00	0.00	42.96	43.61	49.1	0.0	0.888
5.00	0.61	0.92	0.00	0.00	0.00	42.89	43.53	49.6	0.0	0.878
10.00	0.60	0.92	0.00	0.00	0.00	42.80	43.44	50.1	0.0	0.867
15.00	0.60	0.93	0.00	0.00	0.00	42.69	43.32	50.6	0.0	0.856
20.00	0.59	0.94	0.00	0.00	0.00	42.56	43.18	51.1	0.0	0.845
25.00	0.58	0.95	0.00	0.00	0.00	42.39	43.01	51.6	0.0	0.834
30.00	0.58	0.95	0.00	0.00	0.00	42.20	42.81	52.0	0.0	0.823
31.25	0.57	0.96	0.00	0.00	0.00	42.15	42.75	52.0	0.0	0.822
35.00	0.56	0.96	0.00	0.00	0.00	41.97	42.56	52.0	0.0	0.819
37.50	0.54	0.95	0.00	0.00	0.00	40.69	41.26	52.0	0.0	0.794
40.00	0.53	0.96	0.00	0.00	0.00	40.55	41.11	52.0	0.0	0.791
45.00	0.53	0.97	0.00	0.00	0.00	40.22	40.78	52.0	0.0	0.785
50.00	0.52	0.98	0.00	0.00	0.00	39.84	40.40	52.0	0.0	0.777
55.00	0.51	0.99	0.00	0.00	0.00	39.42	39.96	52.0	0.0	0.769
60.00	0.50	1.00	0.00	0.00	0.00	38.93	39.47	52.0	0.0	0.759
63.25	0.50	1.00	0.00	0.00	0.00	38.59	39.13	52.0	0.0	0.753
65.00	0.49	1.01	0.00	0.00	0.00	38.40	38.93	52.0	0.0	0.749
68.75	0.46	1.00	0.00	0.00	0.00	36.74	37.25	52.0	0.0	0.717
70.00	0.46	1.00	0.00	0.00	0.00	36.58	37.09	52.0	0.0	0.713
75.00	0.45	1.01	0.00	0.00	0.00	35.88	36.37	52.0	0.0	0.700
80.00	0.45	1.02	0.00	0.00	0.00	35.09	35.58	52.0	0.0	0.684
85.00	0.44	1.03	0.00	0.00	0.00	34.19	34.68	52.0	0.0	0.667
90.00	0.43	1.04	0.00	0.00	0.00	33.19	33.67	52.0	0.0	0.648
95.00	0.43	1.05	0.00	0.00	0.00	32.05	32.53	52.0	0.0	0.626
96.08	0.42	1.05	0.00	0.00	0.00	31.79	32.27	52.0	0.0	0.621
100.00	0.41	1.06	0.00	0.00	0.00	30.78	31.24	52.0	0.0	0.601
100.75	0.39	1.04	0.00	0.00	0.00	29.44	29.89	52.0	0.0	0.575
105.00	0.39	1.05	0.00	0.00	0.00	28.23	28.67	52.0	0.0	0.552
108.00	0.35	0.89	0.00	0.00	0.00	27.15	27.54	52.0	0.0	0.530
110.00	0.34	0.89	0.00	0.00	0.00	26.71	27.09	52.0	0.0	0.521
115.00	0.33	0.90	0.00	0.00	0.00	25.48	25.87	52.0	0.0	0.498
120.00	0.33	0.91	0.00	0.00	0.00	24.10	24.48	52.0	0.0	0.471
125.00	0.32	0.92	0.00	0.00	0.00	22.53	22.90	52.0	0.0	0.441
129.75	0.31	0.93	0.00	0.00	0.00	20.83	21.20	52.0	0.0	0.408
130.00	0.31	0.93	0.00	0.00	0.00	20.74	21.11	52.0	0.0	0.406
133.58	0.35	1.10	0.00	0.00	0.00	22.15	22.57	52.0	0.0	0.434
135.00	0.34	1.11	0.00	0.00	0.00	21.45	21.88	52.0	0.0	0.421
140.00	0.28	0.94	0.00	0.00	0.00	18.71	19.06	52.0	0.0	0.367
145.00	0.27	0.95	0.00	0.00	0.00	16.30	16.66	52.0	0.0	0.320
150.00	0.26	0.97	0.00	0.00	0.00	13.54	13.90	52.0	0.0	0.267
154.00	0.21	0.70	0.00	0.00	0.00	11.02	11.30	52.0	0.0	0.217
155.00	0.21	0.70	0.00	0.00	0.00	10.60	10.88	52.0	0.0	0.209
160.00	0.18	0.57	0.00	0.00	0.00	8.23	8.46	52.0	0.0	0.163
164.33	0.17	0.57	0.00	0.00	0.00	6.44	6.68	52.0	0.0	0.129
165.00	0.17	0.57	0.00	0.00	0.00	6.15	6.39	52.0	0.0	0.123
167.25	0.19	0.70	0.00	0.00	0.00	6.11	6.41	52.0	0.0	0.123
170.00	0.10	0.37	0.00	0.00	0.00	4.49	4.63	52.0	0.0	0.089
175.00	0.09	0.35	0.00	0.00	0.00	2.97	3.11	52.0	0.0	0.060
179.00	0.00	0.34	0.00	0.00	0.00	1.65	1.75	52.0	0.0	0.034

Pole : 370627
 Location : Newington CT
 Height : 179.0 (ft)
 Base Dia : 62.93 (in)
 Top Dia : 22.31 (in)
 Shape : 18 Sides
 Taper : 0.245810 (in/ft)

Code: TIA/EIA-222 Rev F
 6/10/2014 5:35:11 PM
 Page: 10

@2007-2014 by ATC IP LLC. All rights reserved.



Load Case: Ice 73.61 mph Wind with Ice 25 Iterations

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

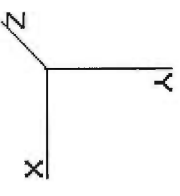
Shaft Segment Forces

Seg Top Elev (ft)	Description	Kz (psf)	qz (psf)	qzGh (psf)	C (mph-ft)	Cf	Ice		EPAS (sf)	Wind		Dead Load (lb)	Tot Dead Load (lb)	
							Thick (in)	Tributary (ft)		Ap (sf)	Force X (lb)			
0.00		1.00	13.871	23.44	386.06	0.650	0.500	0.00	0.00	0.00	0.00	0.00	0.00	
5.00		1.00	13.871	23.44	378.53	0.650	0.500	5.00	26.385	17.15	402.0	192.0	1,446.4	
10.00		1.00	13.871	23.44	370.99	0.650	0.500	5.00	25.872	16.82	394.2	188.2	1,417.7	
15.00		1.00	13.871	23.44	363.45	0.650	0.500	5.00	25.360	16.48	386.4	184.4	1,389.0	
20.00		1.00	13.871	23.44	355.91	0.650	0.500	5.00	24.848	16.15	378.6	180.6	1,360.4	
25.00		1.00	13.871	23.44	348.37	0.650	0.500	5.00	24.336	15.82	370.8	176.8	1,331.7	
30.00		1.00	13.871	23.44	340.83	0.650	0.500	5.00	23.824	15.49	363.0	173.0	1,303.0	
31.25	Bot - Section 2	1.00	13.871	23.44	338.94	0.650	0.500	1.25	5.876	3.82	89.5	43.0	321.6	
35.00		1.01	14.106	23.84	336.10	0.650	0.500	3.75	17.670	11.49	273.8	128.6	1,793.0	
37.50	Top - Section 1	1.03	14.387	24.31	335.59	0.650	0.500	2.50	11.620	7.55	183.6	84.8	1,178.9	
40.00		1.05	14.655	24.76	339.56	0.650	0.500	2.50	11.492	7.47	185.0	83.9	628.5	
45.00		1.09	15.156	25.61	337.44	0.650	0.500	5.00	22.600	14.69	376.3	163.9	1,234.5	
50.00		1.12	15.620	26.39	334.55	0.650	0.500	5.00	22.088	14.36	379.0	160.1	1,205.8	
55.00		1.15	16.051	27.12	331.03	0.650	0.500	5.00	21.576	14.02	380.4	156.3	1,177.1	
60.00		1.18	16.455	27.80	326.96	0.650	0.500	5.00	21.064	13.69	380.7	152.6	1,148.4	
63.25	Bot - Section 3	1.20	16.705	28.23	324.06	0.650	0.500	3.25	13.417	8.72	246.2	97.6	731.5	
65.00		1.21	16.836	28.45	322.41	0.650	0.500	1.75	7.244	4.71	134.0	52.9	732.2	
68.75	Top - Section 2	1.23	17.108	28.91	318.73	0.650	0.500	3.75	15.312	9.95	287.8	111.2	1,546.4	
70.00		1.24	17.196	29.06	322.57	0.650	0.500	1.25	5.040	3.28	95.2	36.8	274.8	
75.00		1.26	17.538	29.64	317.29	0.650	0.500	5.00	19.840	12.90	382.2	143.5	1,079.9	
80.00		1.28	17.865	30.19	311.67	0.650	0.500	5.00	19.328	12.56	379.3	139.7	1,051.2	
85.00		1.31	18.177	30.71	305.76	0.650	0.500	5.00	18.816	12.23	375.7	135.9	1,022.5	
90.00		1.33	18.476	31.22	299.56	0.650	0.500	5.00	18.304	11.90	371.5	132.1	993.8	
95.00		1.35	18.764	31.71	293.12	0.650	0.500	5.00	17.792	11.56	366.7	128.3	965.2	
96.08	Bot - Section 4	1.35	18.824	31.81	291.69	0.650	0.500	1.08	3.787	2.46	78.3	205.7	205.7	
100.0		1.37	19.041	32.17	286.44	0.650	0.500	3.92	13.737	8.93	287.3	99.4	1,379.1	
100.7	Top - Section 3	1.37	19.081	32.24	285.42	0.650	0.500	0.75	2.595	1.69	54.4	18.9	250.5	
105.0		1.39	19.308	32.63	284.98	0.650	0.500	4.25	14.485	9.42	307.2	104.6	784.9	
108.0		1.40	19.464	32.89	280.77	0.650	0.500	3.00	10.002	6.50	213.9	72.5	541.9	
110.0	Appertunance(s)	1.41	19.566	33.06	277.92	0.650	0.500	2.00	6.566	4.27	141.1	47.7	355.7	
115.0		1.42	19.816	33.49	270.68	0.650	0.500	5.00	16.056	10.44	349.5	115.5	867.9	
120.0		1.44	20.059	33.89	263.27	0.650	0.500	5.00	15.544	10.10	342.5	111.7	839.3	
125.0		1.46	20.294	34.29	255.69	0.650	0.500	5.00	15.032	9.77	335.1	107.9	810.6	
129.7	Bot - Section 5	1.47	20.512	34.66	248.34	0.650	0.500	4.75	13.806	8.97	311.1	99.1	743.6	
130.0		1.48	20.523	34.68	247.95	0.650	0.500	0.25	0.727	0.47	16.4	5.3	66.9	
133.5	Top - Section 4	1.49	20.683	34.95	242.32	0.650	0.500	3.58	10.277	6.68	233.5	74.0	944.8	
135.0		1.49	20.745	35.06	244.76	0.650	0.500	1.42	3.991	2.59	90.9	29.0	184.3	
140.0	Appertunance(s)	1.51	20.962	35.42	236.77	0.650	0.500	5.00	13.756	8.94	316.7	98.4	633.4	
145.0		1.52	21.173	35.78	228.64	0.650	0.500	5.00	13.244	8.61	308.0	94.6	608.9	
150.0		1.54	21.379	36.13	220.39	0.650	0.500	5.00	12.731	8.28	299.0	90.8	584.3	
154.0	Appertunance(s)	1.55	21.541	36.40	213.71	0.650	0.500	4.00	9.816	6.38	232.3	70.3	450.1	
155.0		1.55	21.581	36.47	212.02	0.650	0.500	1.00	2.403	1.56	57.0	17.4	110.3	
160.0	Appertunance(s)	1.57	21.777	36.80	203.54	0.650	0.500	5.00	11.707	7.61	280.1	83.3	535.3	
164.3	Bot - Section 6	1.58	21.944	37.08	196.10	0.650	0.500	4.33	9.732	6.33	234.6	69.3	444.3	
165.0		1.58	21.969	37.12	194.95	0.650	0.500	0.67	1.491	0.97	36.0	10.8	113.2	
167.2	Top - Section 5	1.59	22.055	37.27	191.05	0.650	0.500	2.25	4.964	3.23	120.3	35.7	376.2	
170.0	Appertunance(s)	1.59	22.158	37.44	190.13	0.650	0.500	2.75	5.927	3.85	144.3	42.5	225.2	
175.0		1.61	22.342	37.75	181.35	0.650	0.500	5.00	10.379	6.75	254.7	73.4	392.8	
179.0	Appertunance(s)	1.62	22.487	38.00	174.26	0.650	0.500	4.00	7.935	5.16	196.0	56.3	299.9	
Totals:							179.00					12,422.4	4,702.0	38,092.4

Pole : 370627
 Location : Newington CT
 Height : 179.0 (ft)
 Base Dia : 62.93 (in)
 Top Dia : 22.31 (in)
 Shape : 18 Sides
 Taper : 0.245810 (in/ft)

Code: TIA/EIA-222 Rev F
 6/10/2014 5:35:11 PM
 Page: 11

© 2007 - 2014 by ATC IP LLC. All rights reserved.



Load Case: Ice 73.61 mph Wind with Ice 25 Iterations

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

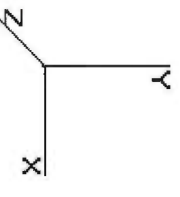
Discrete Appurtenance Segment Forces

Ele (ft)	Description	Qty	gz (psf)	gzGh (psf)	Orientation Factor	Total EPAA (sf)	Horiz Ecc (ft)	Vert Ecc (ft)	Wind FX (lb)	Mom Y (lb-ft)	Mom Z (lb-ft)	Dead Load (lb)
108.0	Flat Low Profile Pla	1	19.464	32.894	1.00	31.60	0.000	0.000	1,039.45	0.00	0.00	1,700.00
108.0	RFS FD9R6004/2C-3L	6	19.566	33.067	0.50	1.50	0.000	2.000	49.60	0.00	99.20	32.40
108.0	Alcatel-Lucent RRH2x	3	19.566	33.067	0.67	5.77	0.000	2.000	190.75	0.00	381.51	184.20
108.0	RFS DB-T1-6Z-8AB-0Z	1	19.566	33.067	0.67	4.07	0.000	2.000	134.70	0.00	269.40	144.50
108.0	Antel BXA-171063/8CF	3	19.566	33.067	0.90	9.10	0.000	2.000	300.88	0.00	601.75	89.40
108.0	Antel BXA-171063/12C	3	19.566	33.067	0.88	14.41	0.000	2.000	476.64	0.00	953.28	127.20
108.0	Antel BXA-80063/4CF	3	19.566	33.067	0.72	12.40	0.000	2.000	410.05	0.00	820.10	113.18
108.0	Antel BXA-70063-6CF-	3	19.566	33.067	0.77	19.73	0.000	2.000	652.32	0.00	1,304.63	174.00
140.0	Round Low Profile Pl	1	20.962	35.426	1.00	27.20	0.000	0.000	963.58	0.00	0.00	1,700.00
140.0	Alcatel-Lucent 2X50W	3	20.962	35.426	0.67	5.47	0.000	0.000	193.68	0.00	0.00	213.90
140.0	Alcatel-Lucent 1900M	3	20.962	35.426	0.67	8.44	0.000	0.000	299.06	0.00	0.00	225.60
140.0	RFS APXV9ERR18-C-	1	20.962	35.426	0.85	7.72	0.000	0.000	273.42	0.00	0.00	113.90
140.0	RFS APXVSP18-C-	2	20.962	35.426	0.82	14.89	0.000	0.000	527.53	0.00	0.00	213.00
154.0	Round T-Arm	3	21.541	36.404	0.67	24.32	0.000	0.000	885.37	0.00	0.00	942.00
154.0	Powerwave LGP21401	6	21.541	36.404	0.50	1.02	0.000	0.000	37.13	0.00	0.00	46.20
154.0	Raycap DC6-48-60-18-	1	21.541	36.404	1.00	1.67	0.000	0.000	60.79	0.00	0.00	49.50
154.0	Ericsson RRUS 11 (Ba	6	21.541	36.404	0.67	13.23	0.000	0.000	481.47	0.00	0.00	445.80
154.0	Powerwave 7770.00	3	21.541	36.404	0.75	14.69	0.000	0.000	534.86	0.00	0.00	202.89
154.0	KMW AM-X-CD-16-65-	1	21.541	36.404	0.78	7.08	0.000	0.000	257.83	0.00	0.00	95.00
154.0	Andrew SBNH-	1	21.541	36.404	0.81	10.02	0.000	0.000	360.75	0.00	0.00	126.70
154.0	Powerwave P65-17-	1	21.541	36.404	0.80	9.91	0.000	0.000	360.83	0.00	0.00	121.00
160.0	Side Arms	1	21.777	36.803	1.00	10.50	0.000	0.000	386.44	0.00	0.00	680.00
160.0	RCU	3	21.777	36.803	0.50	0.39	0.000	0.000	14.35	0.00	0.00	7.50
160.0	DragonWave Horizon	3	21.777	36.803	0.50	1.54	0.000	0.000	56.86	0.00	0.00	53.70
160.0	DragonWave A-ANT-	3	21.777	36.803	0.67	3.15	0.000	0.000	373.57	0.00	0.00	165.30
160.0	Samsung U-RAS	3	21.777	36.803	0.50	10.15	0.000	0.000	115.93	0.00	0.00	135.00
160.0	Argus LLPX310R	3	21.777	36.803	0.70	11.26	0.000	0.000	414.26	0.00	0.00	163.80
170.0	Flat Low Profile Pla	1	22.158	37.446	1.00	0.83	0.000	0.000	1,183.31	0.00	0.00	1,700.00
170.0	Ericsson KRY 112 144	3	22.158	37.446	0.50	0.83	0.000	0.000	30.89	0.00	0.00	42.30
170.0	Ericsson AIR 21, 1.3	3	22.158	37.446	0.83	17.93	0.000	0.000	671.34	0.00	0.00	397.80
170.0	Ericsson AIR 21, 1.3	3	22.158	37.446	0.83	17.93	0.000	0.000	671.34	0.00	0.00	397.80
180.0	Round Low Profile Pl	1	22.522	38.063	1.00	27.20	0.000	0.000	1,035.31	0.00	1,035.31	1,700.00
180.0	8' Yagi	1	22.522	38.063	1.00	21.59	0.000	0.000	821.78	0.00	821.78	1,27.20
180.0	20' Dipole	1	22.873	38.656	1.00	11.63	0.000	10.000	449.56	0.00	4,945.20	147.40
									14,719.64			12,778.17

Pole : 370627
 Location : Newington CT
 Height : 179.0 (ft)
 Base Dia : 62.93 (in)
 Top Dia : 22.31 (in)
 Shape : 18 Sides
 Taper : 0.245810 (in/ft)

Code: TIA/EIA-222 Rev F
 6/10/2014 5:35:11 PM
 Page: 12

@ 2007 - 2014 by ATC IP LLC. All rights reserved.



Load Case: Ice 73.61 mph Wind with Ice 25 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	402.03	1,541.36	0.00	0.00
10.00	394.23	1,512.68	0.00	0.00
15.00	386.43	1,484.00	0.00	0.00
20.00	378.63	1,455.32	0.00	0.00
25.00	370.82	1,426.63	0.00	0.00
30.00	363.02	1,397.96	0.00	0.00
31.25	89.54	345.36	0.00	0.00
35.00	273.82	1,864.25	0.00	0.00
37.50	183.65	1,226.33	0.00	0.00
40.00	185.01	675.94	0.00	0.00
45.00	376.28	1,329.41	0.00	0.00
50.00	378.99	1,300.73	0.00	0.00
55.00	380.43	1,272.05	0.00	0.00
60.00	380.75	1,243.37	0.00	0.00
63.25	246.20	793.24	0.00	0.00
65.00	133.97	765.45	0.00	0.00
68.75	287.76	1,617.58	0.00	0.00
70.00	95.20	298.54	0.00	0.00
75.00	382.23	1,174.83	0.00	0.00
80.00	379.30	1,146.15	0.00	0.00
85.00	375.70	1,117.47	0.00	0.00
90.00	371.49	1,088.79	0.00	0.00
95.00	366.72	1,060.11	0.00	0.00
96.08	78.32	226.23	0.00	0.00
100.0	287.33	1,453.46	0.00	0.00
100.7	54.39	274.75	0.00	0.00
105.0	307.23	865.62	0.00	0.00
108.0	3,468.25	3,163.72	0.00	4,429.88
110.0	141.12	389.40	0.00	0.00
115.0	349.51	952.28	0.00	0.00
120.0	342.50	923.60	0.00	0.00
125.0	335.10	894.92	0.00	0.00
129.7	311.07	823.70	0.00	0.00
130.0	16.39	71.15	0.00	0.00
133.5	233.50	1,005.29	0.00	0.00
135.0	90.94	208.21	0.00	0.00
140.0	2,574.01	3,184.14	0.00	0.00
145.0	308.03	688.21	0.00	0.00
150.0	299.00	663.67	0.00	0.00
154.0	3,215.32	2,542.67	0.00	0.00
155.0	56.96	116.96	0.00	0.00
160.0	1,641.48	1,773.86	0.00	0.00
164.3	234.60	455.62	0.00	0.00
165.0	35.98	114.90	0.00	0.00
167.2	120.27	382.14	0.00	0.00
170.0	2,701.14	2,770.33	0.00	0.00
175.0	254.73	394.49	0.00	0.00
179.0	2,502.65	2,275.82	0.00	6,802.29

Pole : 370627

Location : Newington CT

Height : 179.0 (ft)

Base Dia : 62.93 (in)

Top Dia : 22.31 (in)

Shape : 18 Sides

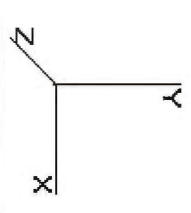
Taper : 0.245810 (in/ft)

Code : TIA/EIA-222 Rev F

6/10/2014 5:35:11 PM

Page : 13

© 2007 - 2014 by ATC IP LLC. All rights reserved.



Load Case: Ice 73.61 mph Wind with Ice 25 Iterations

Gust Response Factor : 1.69

Dead Load Factor : 1.00

Wind Load Factor : 1.00

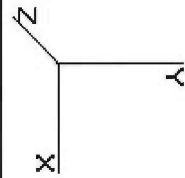
Totals : 27,142.00 53,752.67 0.00 11,232.17

Pole : 370627
 Location : Newington CT
 Height : 179.0 (ft)
 Base Dia : 62.93 (in)
 Top Dia : 22.31 (in)
 Shape : 18 Sides
 Taper : 0.245810 (in/ft)

Code: TIA/EIA-222 Rev F
 Base Elev : 0.000 (ft)

@ 2007 - 2014 by ATC IP LLC. All rights reserved.

6/10/2014 5:35:11 PM
 Page: 14



Load Case: Ice 73.61 mph Wind with Ice 25 Iterations
 Gust Response Factor : 1.69
 Dead Load Factor : 1.00
 Wind Load Factor : 1.00

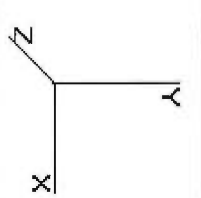
Calculated Shaft Forces and Deflections

Seg	Elev	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		-27.203	-53.721	0.000	0.000	0.000	-3.421,346	0.000	0.000	0.000	0.000
5.00		-26.918	-52.119	0.000	0.000	0.000	-3.285,334	-0.070	0.000	0.070	-0.130
10.00		-26.636	-50.546	0.000	0.000	0.000	-3.150,745	-0.277	0.000	0.277	-0.261
15.00		-26.358	-49.002	0.000	0.000	0.000	-3.017,566	-0.623	0.000	0.623	-0.396
20.00		-26.082	-47.487	0.000	0.000	0.000	-2.885,782	-1.111	0.000	1.111	-0.533
25.00		-25.809	-46.001	0.000	0.000	0.000	-2.755,376	-1.744	0.000	1.744	-0.672
30.00		-25.497	-44.568	0.000	0.000	0.000	-2.626,336	-2.524	0.000	2.524	-0.814
31.25		-25.459	-44.192	0.000	0.000	0.000	-2.594,466	-2.742	0.000	2.742	-0.850
35.00		-25.223	-42.292	0.000	0.000	0.000	-2.495,998	-3.454	0.000	3.454	-0.960
37.50		-25.072	-41.036	0.000	0.000	0.000	-2.435,942	-3.977	0.000	3.977	-1.034
40.00		-24.951	-40.316	0.000	0.000	0.000	-2.373,265	-4.539	0.000	4.539	-1.109
45.00		-24.645	-38.933	0.000	0.000	0.000	-2.248,513	-5.777	0.000	5.777	-1.252
50.00		-24.332	-37.580	0.000	0.000	0.000	-2.125,290	-7.167	0.000	7.167	-1.397
55.00		-24.013	-36.256	0.000	0.000	0.000	-2.003,632	-8.709	0.000	8.709	-1.544
60.00		-23.673	-34.973	0.000	0.000	0.000	-1.883,571	-10.406	0.000	10.406	-1.693
63.25		-23.448	-34.156	0.000	0.000	0.000	-1.806,636	-11.593	0.000	11.593	-1.792
66.00		-23.339	-33.361	0.000	0.000	0.000	-1.765,603	-12.260	0.000	12.260	-1.846
68.75		-23.041	-31.723	0.000	0.000	0.000	-1.678,082	-13.757	0.000	13.757	-1.961
70.00		-22.986	-31.390	0.000	0.000	0.000	-1.649,283	-14.276	0.000	14.276	-2.001
75.00		-22.639	-30.172	0.000	0.000	0.000	-1.534,353	-16.449	0.000	16.449	-2.147
80.00		-22.291	-28.984	0.000	0.000	0.000	-1.421,159	-18.777	0.000	18.777	-2.294
85.00		-21.941	-27.827	0.000	0.000	0.000	-1.309,708	-21.259	0.000	21.259	-2.442
90.00		-21.591	-26.700	0.000	0.000	0.000	-1.200,007	-23.895	0.000	23.895	-2.589
95.00		-21.215	-25.625	0.000	0.000	0.000	-1.092,057	-26.686	0.000	26.686	-2.736
96.08		-21.159	-25.375	0.000	0.000	0.000	-1.069,075	-27.311	0.000	27.311	-2.769
100.0		-20.828	-23.913	0.000	0.000	0.000	-986,205	-29.630	0.000	29.630	-2.884
100.7		-20.791	-23.615	0.000	0.000	0.000	-970,584	-30.085	0.000	30.085	-2.907
105.0		-20.479	-22.730	0.000	0.000	0.000	-882,226	-32.729	0.000	32.729	-3.030
108.0		-16.870	-19.737	0.000	0.000	0.000	-816,359	-34.658	0.000	34.658	-3.111
110.0		-16.739	-19.329	0.000	0.000	0.000	-782,620	-35.973	0.000	35.973	-3.165
115.0		-16.378	-18.361	0.000	0.000	0.000	-698,928	-39.356	0.000	39.356	-3.295
120.0		-16.020	-17.424	0.000	0.000	0.000	-617,042	-42.875	0.000	42.875	-3.423
125.0		-15.665	-16.519	0.000	0.000	0.000	-536,944	-46.524	0.000	46.524	-3.547
129.7		-15.319	-15.700	0.000	0.000	0.000	-462,536	-50.110	0.000	50.110	-3.660
130.0		-15.310	-15.618	0.000	0.000	0.000	-458,706	-50.301	0.000	50.301	-3.666
133.5		-15.027	-14.616	0.000	0.000	0.000	-403,845	-53.083	0.000	53.083	-3.749
135.0		-14.942	-14.394	0.000	0.000	0.000	-382,557	-54.200	0.000	54.200	-3.781
140.0		-12.182	-11.366	0.000	0.000	0.000	-307,850	-58.221	0.000	58.221	-3.897
145.0		-11.846	-10.680	0.000	0.000	0.000	-246,941	-62.357	0.000	62.357	-4.002
150.0		-11.514	-10.024	0.000	0.000	0.000	-187,713	-66.596	0.000	66.596	-4.094
154.0		-8.129	-7.714	0.000	0.000	0.000	-141,657	-70.053	0.000	70.053	-4.158
155.0		-8.069	-7.596	0.000	0.000	0.000	-133,528	-70.925	0.000	70.925	-4.173
160.0		-6.308	-5.941	0.000	0.000	0.000	-93,182	-75.326	0.000	75.326	-4.235
164.3		-6.042	-5.502	0.000	0.000	0.000	-65,849	-79.189	0.000	79.189	-4.279
165.0		-5.999	-5.389	0.000	0.000	0.000	-61,821	-79.786	0.000	79.786	-4.285
167.2		-5.852	-5.015	0.000	0.000	0.000	-48,323	-81,808	0.000	81,808	-4.303
170.0		-2.951	-2.454	0.000	0.000	0.000	-32,230	-84,290	0.000	84,290	-4.321
175.0		-2.668	-2.079	0.000	0.000	0.000	-17,475	-88,826	0.000	88,826	-4.345
179.0		-2.503	0.000	0.000	0.000	0.000	-6,802	-92,468	0.000	92,468	-4.357

Pole : 370627
 Location : Newington CT
 Height : 179.0 (ft)
 Base Dia : 62.93 (in)
 Top Dia : 22.31 (in)
 Shape : 18 Sides
 Taper : 0.245810 (in/ft)

Code: TIA/EIA-222 Rev F
 6/10/2014 5:35:11 PM
 Page: 15

@ 2007 - 2014 by ATC IP LLC. All rights reserved.

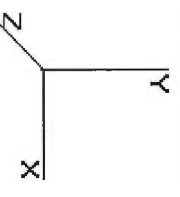


Load Case: Ice 73.61 mph Wind with Ice 25 Iterations
 Gust Response Factor : 1.69
 Dead Load Factor : 1.00
 Wind Load Factor : 1.00

Calculated Stresses

Seg Elev (ft)	Axial (Y) (ksi)	Shear (X) (ksi)	Shear (Z) (ksi)	Applied Stresses			Combined (ksi)	Allowable Stress (Fb) (ksi)	Stress Ratio	
				Torsion (ksi)	Bending (X) (ksi)	Bending (Z) (ksi)				
0.00	0.72	0.74	0.00	0.00	0.00	35.63	36.37	49.1	0.0	0.740
5.00	0.71	0.74	0.00	0.00	0.00	35.60	36.34	49.6	0.0	0.732
10.00	0.71	0.75	0.00	0.00	0.00	35.56	36.29	50.1	0.0	0.724
15.00	0.70	0.76	0.00	0.00	0.00	35.50	36.22	50.6	0.0	0.716
20.00	0.69	0.77	0.00	0.00	0.00	35.44	36.13	51.1	0.0	0.707
25.00	0.69	0.77	0.00	0.00	0.00	35.31	36.02	51.6	0.0	0.698
30.00	0.68	0.78	0.00	0.00	0.00	35.17	35.88	52.0	0.0	0.690
31.25	0.68	0.79	0.00	0.00	0.00	35.14	35.84	52.0	0.0	0.690
35.00	0.66	0.79	0.00	0.00	0.00	35.02	35.70	52.0	0.0	0.687
37.50	0.64	0.78	0.00	0.00	0.00	33.96	34.63	52.0	0.0	0.666
40.00	0.63	0.79	0.00	0.00	0.00	33.85	34.52	52.0	0.0	0.664
45.00	0.63	0.80	0.00	0.00	0.00	33.61	34.26	52.0	0.0	0.659
50.00	0.62	0.81	0.00	0.00	0.00	33.32	33.97	52.0	0.0	0.653
55.00	0.61	0.82	0.00	0.00	0.00	32.99	33.63	52.0	0.0	0.647
60.00	0.61	0.83	0.00	0.00	0.00	32.61	33.24	52.0	0.0	0.640
63.25	0.60	0.83	0.00	0.00	0.00	32.33	32.97	52.0	0.0	0.634
65.00	0.59	0.83	0.00	0.00	0.00	32.18	32.80	52.0	0.0	0.631
68.75	0.57	0.83	0.00	0.00	0.00	30.81	31.41	52.0	0.0	0.604
70.00	0.56	0.83	0.00	0.00	0.00	30.68	31.28	52.0	0.0	0.602
75.00	0.56	0.84	0.00	0.00	0.00	30.11	30.70	52.0	0.0	0.591
80.00	0.55	0.85	0.00	0.00	0.00	29.46	30.04	52.0	0.0	0.578
85.00	0.54	0.86	0.00	0.00	0.00	28.72	29.30	52.0	0.0	0.564
90.00	0.53	0.87	0.00	0.00	0.00	27.89	28.46	52.0	0.0	0.548
95.00	0.53	0.88	0.00	0.00	0.00	26.94	27.51	52.0	0.0	0.529
96.08	0.53	0.89	0.00	0.00	0.00	26.73	27.30	52.0	0.0	0.525
100.00	0.51	0.89	0.00	0.00	0.00	25.88	26.43	52.0	0.0	0.508
100.75	0.50	0.88	0.00	0.00	0.00	24.75	25.29	52.0	0.0	0.487
105.00	0.49	0.89	0.00	0.00	0.00	23.72	24.26	52.0	0.0	0.467
108.00	0.43	0.75	0.00	0.00	0.00	22.81	23.28	52.0	0.0	0.448
110.00	0.43	0.75	0.00	0.00	0.00	22.44	22.91	52.0	0.0	0.441
115.00	0.42	0.76	0.00	0.00	0.00	21.42	21.88	52.0	0.0	0.421
120.00	0.41	0.77	0.00	0.00	0.00	20.26	20.72	52.0	0.0	0.399
125.00	0.41	0.78	0.00	0.00	0.00	18.93	19.38	52.0	0.0	0.373
129.75	0.40	0.79	0.00	0.00	0.00	17.41	17.94	52.0	0.0	0.345
130.00	0.40	0.79	0.00	0.00	0.00	17.41	17.86	52.0	0.0	0.344
133.58	0.45	0.93	0.00	0.00	0.00	18.58	19.10	52.0	0.0	0.344
135.00	0.45	0.94	0.00	0.00	0.00	18.58	19.10	52.0	0.0	0.367
140.00	0.37	0.80	0.00	0.00	0.00	17.98	18.50	52.0	0.0	0.356
145.00	0.36	0.81	0.00	0.00	0.00	16.64	16.07	52.0	0.0	0.309
150.00	0.35	0.82	0.00	0.00	0.00	15.61	14.04	52.0	0.0	0.270
154.00	0.28	0.60	0.00	0.00	0.00	11.26	11.70	52.0	0.0	0.225
155.00	0.28	0.60	0.00	0.00	0.00	9.11	9.45	52.0	0.0	0.182
160.00	0.23	0.49	0.00	0.00	0.00	8.75	9.09	52.0	0.0	0.175
164.33	0.22	0.49	0.00	0.00	0.00	6.69	6.97	52.0	0.0	0.134
165.00	0.22	0.49	0.00	0.00	0.00	5.14	5.43	52.0	0.0	0.104
167.25	0.25	0.60	0.00	0.00	0.00	4.89	5.18	52.0	0.0	0.100
170.00	0.13	0.31	0.00	0.00	0.00	4.76	5.12	52.0	0.0	0.099
175.00	0.11	0.29	0.00	0.00	0.00	3.36	3.53	52.0	0.0	0.068
179.00	0.00	0.29	0.00	0.00	0.00	2.02	2.19	52.0	0.0	0.042
						0.86	0.99	52.0	0.0	0.019

Pole : 370627 Code: TIA/EIA-222 Rev F 6/10/2014 5:35:12 PM
 Location : Newington CT Page : 16
 Height : 179.0 (ft)
 Base Dia : 62.93 (in) Base Elev : 0.000 (ft)
 Top Dia : 22.31 (in)
 Shape : 18 Sides
 Taper : 0.245810 (in/ft) @ 2007 - 2014 by ATC IP LLC. All rights reserved.



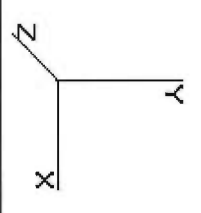
Load Case: Twist/Sway 50.00 mph Wind with No Ice 24 Iterations
 Gust Response Factor : 1.69
 Dead Load Factor : 1.00
 Wind Load Factor : 1.00

Shaft Segment Forces

Seg Top Elev (ft)	Description	Kz	qz (psf)	qzGh (psf)	C (mph-ft)	Cf	Ice Thick (in)	Tributary (ft)	Ap (sf)	EPAs (sf)	Wind Force X (lb)	Dead Load (lb)	Tot Dead Load (lb)		
0.00		1.00	6.400	10.81	262.24	0.650	0.000	0.00	0.000	0.00	0.0	0.0	0.0		
5.00		1.00	6.400	10.81	257.11	0.650	0.000	5.00	25.968	16.88	182.6	0.0	1,254.4		
10.00		1.00	6.400	10.81	251.99	0.650	0.000	5.00	25.456	16.55	179.0	0.0	1,229.6		
15.00		1.00	6.400	10.81	246.87	0.650	0.000	5.00	24.944	16.21	175.4	0.0	1,204.7		
20.00		1.00	6.400	10.81	241.75	0.650	0.000	5.00	24.432	15.88	171.8	0.0	1,179.8		
25.00		1.00	6.400	10.81	236.63	0.650	0.000	5.00	23.919	15.55	168.2	0.0	1,154.9		
30.00		1.00	6.400	10.81	231.51	0.650	0.000	5.00	23.407	15.21	164.6	0.0	1,130.0		
31.25	Bot - Section 2	1.00	6.400	10.81	230.23	0.650	0.000	1.25	5.772	3.75	40.6	0.0	278.6		
35.00		1.01	6.509	10.99	228.30	0.650	0.000	3.75	17.358	11.28	124.1	0.0	1,664.4		
37.50	Top - Section 1	1.03	6.638	11.21	227.95	0.650	0.000	2.50	11.412	7.42	83.2	0.0	1,094.0		
40.00		1.05	6.762	11.42	230.64	0.650	0.000	2.50	11.284	7.33	83.8	0.0	544.6		
45.00		1.09	6.993	11.81	229.20	0.650	0.000	5.00	22.184	14.42	170.4	0.0	1,070.5		
50.00		1.12	7.207	12.17	227.25	0.650	0.000	5.00	21.671	14.09	171.6	0.0	1,045.6		
55.00		1.15	7.406	12.51	224.85	0.650	0.000	5.00	21.159	13.75	172.1	0.0	1,020.8		
60.00		1.18	7.592	12.83	222.09	0.650	0.000	5.00	20.647	13.42	172.2	0.0	995.9		
63.25	Bot - Section 3	1.20	7.707	13.02	220.12	0.650	0.000	3.25	13.146	8.54	111.3	0.0	634.0		
65.00		1.21	7.768	13.12	219.00	0.650	0.000	1.75	7.098	4.61	60.6	0.0	679.3		
68.75	Top - Section 2	1.23	7.893	13.34	216.50	0.650	0.000	3.75	15.000	9.75	130.1	0.0	1,435.2		
70.00		1.24	7.934	13.40	219.11	0.650	0.000	1.25	4.936	3.21	43.0	0.0	238.0		
75.00		1.26	8.092	13.67	215.52	0.650	0.000	5.00	19.423	12.63	172.7	0.0	936.4		
80.00		1.28	8.242	13.93	211.71	0.650	0.000	5.00	18.911	12.29	171.2	0.0	911.5		
85.00		1.31	8.387	14.17	207.68	0.650	0.000	5.00	18.399	11.96	169.5	0.0	886.6		
90.00		1.33	8.525	14.40	203.48	0.650	0.000	5.00	17.887	11.63	167.5	0.0	861.7		
95.00		1.35	8.657	14.63	199.10	0.650	0.000	5.00	17.375	11.29	165.2	0.0	836.8		
96.08	Bot - Section 4	1.35	8.685	14.67	198.13	0.650	0.000	1.08	3.697	2.40	35.3	0.0	178.0		
100.0		1.37	8.785	14.84	194.56	0.650	0.000	3.92	13.411	8.72	129.4	0.0	1,279.7		
100.7	Top - Section 3	1.37	8.804	14.87	193.87	0.650	0.000	4.75	2.632	1.65	24.5	0.0	241.6		
105.0		1.39	8.908	15.05	193.57	0.650	0.000	4.25	14.131	9.19	138.3	0.0	680.3		
108.0		1.40	8.980	15.17	190.71	0.650	0.000	3.00	9.752	6.34	96.2	0.0	469.4		
110.0		1.41	9.028	15.25	188.78	0.650	0.000	2.00	6.399	4.16	63.5	0.0	308.0		
115.0		1.42	9.143	15.45	183.86	0.650	0.000	5.00	15.639	10.17	157.1	0.0	752.5		
120.0		1.44	9.255	15.64	178.82	0.650	0.000	5.00	15.127	9.83	153.8	0.0	727.6		
125.0		1.46	9.363	15.82	173.67	0.650	0.000	5.00	14.615	9.50	150.3	0.0	702.7		
129.7	Bot - Section 5	1.47	9.464	15.99	168.69	0.650	0.000	4.75	13.410	8.72	139.4	0.0	644.5		
130.0		1.48	9.469	16.00	168.42	0.650	0.000	0.25	0.706	0.46	7.3	0.0	61.6		
133.5	Top - Section 4	1.49	9.543	16.12	164.60	0.650	0.000	3.58	9.979	6.49	104.6	0.0	870.8		
135.0		1.49	9.572	16.17	166.25	0.650	0.000	1.42	3.873	2.52	40.7	0.0	155.3		
140.0		1.51	9.672	16.34	160.82	0.650	0.000	5.00	13.339	8.67	141.7	0.0	535.0		
145.0		1.52	9.769	16.51	155.31	0.650	0.000	5.00	12.827	8.34	137.6	0.0	514.2		
150.0		1.54	9.864	16.67	149.70	0.650	0.000	5.00	12.315	8.00	133.4	0.0	493.5		
154.0		1.55	9.939	16.79	145.16	0.650	0.000	4.00	9.483	6.16	103.5	0.0	379.8		
155.0		1.55	9.957	16.82	144.02	0.650	0.000	1.00	2.320	1.51	25.4	0.0	92.9		
160.0	Appertunance(s)	1.57	10.048	16.98	138.26	0.650	0.000	5.00	11.291	7.34	124.6	0.0	452.0		
164.3	Bot - Section 6	1.58	10.125	17.11	133.20	0.650	0.000	4.33	9.371	6.09	104.2	0.0	375.0		
165.0		1.58	10.136	17.13	132.42	0.650	0.000	0.67	1.435	0.93	16.0	0.0	102.4		
167.2	Top - Section 5	1.59	10.176	17.19	129.77	0.650	0.000	2.25	4.777	3.11	53.4	0.0	340.6		
170.0		1.59	10.223	17.27	129.15	0.650	0.000	2.75	5.698	3.70	64.0	0.0	182.8		
175.0		1.61	10.308	17.42	123.18	0.650	0.000	5.00	9.963	6.48	112.8	0.0	319.4		
179.0	Appertunance(s)	1.62	10.375	17.53	118.37	0.650	0.000	4.00	7.601	4.94	86.6	0.0	243.6		
Totals:												179.00	5,594.2	0.0	33,390.4

Pole : 370627
 Location : Newington CT
 Height : 179.0 (ft)
 Base Dia : 62.93 (in)
 Top Dia : 22.31 (in)
 Shape : 18 Sides
 Taper : 0.245810 (in/ft)

Code: TIA/EIA-222 Rev F
 Base Elev : 0.000 (ft)
 @ 2007 - 2014 by ATC IP LLC. All rights reserved.



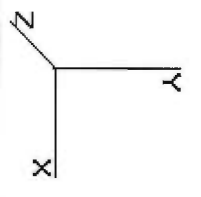
Load Case: Twists/Sway 50.00 mph Wind with No Ice 24 Iterations
 Gust Response Factor : 1.69
 Dead Load Factor : 1.00
 Wind Load Factor : 1.00

Discrete Appurtenance Segment Forces

Elev (ft)	Description	Qty	qz (psf)	qzCh (psf)	Orientation Factor	Total EPAa (sf)	Horiz Ecc (ft)	Vert Ecc (ft)	Wind FX (lb)	Mom Y (lb-ft)	Mom Z (lb-ft)	Dead Load (lb)
108.0	Flat Low Profile Pla	1	8.980	15.177	1.00	26.10	0.000	0.000	396.12	0.00	0.00	1,500.00
108.0	RFS FD9R6004/2C-3L	6	9.028	15.257	0.50	1.11	0.000	2.000	16.93	0.00	33.87	18.60
108.0	Alcatel-Lucent RRH2x	3	9.028	15.257	0.67	5.05	0.000	2.000	76.97	0.00	153.94	132.00
108.0	RFS DB-T1-6Z-8AB-0Z	1	9.028	15.257	0.67	3.75	0.000	2.000	57.24	0.00	114.49	110.00
108.0	Antel BXA-171063/8CF	3	9.028	15.257	0.90	7.83	0.000	2.000	119.46	0.00	238.92	31.50
108.0	Antel BXA-171063/12C	3	9.028	15.257	0.88	12.65	0.000	2.000	192.93	0.00	385.86	45.00
108.0	Antel BXA-80063/4CF	3	9.028	15.257	0.72	11.15	0.000	2.000	170.08	0.00	340.16	29.70
108.0	Antel BXA-70063-6CF-	3	9.028	15.257	0.77	17.86	0.000	2.000	272.43	0.00	544.86	51.00
140.0	Round Low Profile Pl	1	9.672	16.345	1.00	21.70	0.000	0.000	78.85	0.00	0.00	1,500.00
140.0	Alcatel-Lucent 2X50W	3	9.672	16.345	0.67	4.82	0.000	0.000	124.84	0.00	0.00	192.00
140.0	Alcatel-Lucent 1900M	3	9.672	16.345	0.67	7.02	0.000	0.000	114.76	0.00	0.00	62.00
140.0	RFS APXV9ERRR18-C-	1	9.672	16.345	0.85	13.55	0.000	0.000	221.42	0.00	0.00	114.00
140.0	RFS APXVSP18-C-	2	9.672	16.345	0.82	7.02	0.000	0.000	327.47	0.00	0.00	750.00
154.0	Round T-Arm	3	9.939	16.796	0.67	19.50	0.000	0.000	65.00	0.00	0.00	84.60
154.0	Powerwave LGP21401	6	9.939	16.796	0.50	3.87	0.000	0.000	24.69	0.00	0.00	31.80
154.0	Raycap DC6-48-60-18-	1	9.939	16.796	1.00	1.47	0.000	0.000	198.51	0.00	0.00	330.00
154.0	Ericsson RRUS 11 (Ba	6	9.939	16.796	0.67	11.82	0.000	0.000	222.21	0.00	0.00	105.00
154.0	Powerwave 7770.00	3	9.939	16.796	0.75	13.23	0.000	0.000	108.21	0.00	0.00	48.50
154.0	KMW AM-X-CD-16-65-	1	9.939	16.796	0.78	6.44	0.000	0.000	155.78	0.00	0.00	60.80
154.0	Andrew SBNH-	1	9.939	16.796	0.81	9.27	0.000	0.000	154.12	0.00	0.00	59.00
154.0	Powerwave P65-17-	1	9.939	16.796	1.00	9.18	0.000	0.000	144.34	0.00	0.00	560.00
160.0	Side Arms	1	10.048	16.981	1.00	8.50	0.000	0.000	4.08	0.00	0.00	3.00
160.0	RCU	3	10.048	16.981	0.50	0.24	0.000	0.000	21.40	0.00	0.00	34.50
160.0	DragonWave Horizon	3	10.048	16.981	0.50	1.26	0.000	0.000	160.07	0.00	0.00	81.30
160.0	DragonWave A-ANT-	3	10.048	16.981	0.67	9.43	0.000	0.000	46.36	0.00	0.00	99.00
160.0	Samsung U-RAS	3	10.048	16.981	0.50	2.73	0.000	0.000	172.23	0.00	0.00	86.10
160.0	Argus LLPX310R	3	10.048	16.981	0.70	10.14	0.000	0.000	10.63	0.00	0.00	1,500.00
170.0	Flat Low Profile Pla	1	10.223	17.277	1.00	26.10	0.000	0.000	283.51	0.00	0.00	33.00
170.0	Ericsson KRY 112 144	3	10.223	17.277	0.50	16.26	0.000	0.000	280.92	0.00	0.00	249.00
170.0	Ericsson AIR 21, 1.3	3	10.223	17.277	0.83	16.41	0.000	0.000	381.09	0.00	381.09	1,500.00
170.0	Ericsson AIR 21, 1.3	3	10.392	17.562	1.00	21.70	0.000	0.000	210.74	0.00	210.74	30.00
180.0	Round Low Profile Pl	1	10.392	17.562	1.00	20.00	0.000	10.000	0.00	0.00	3,923.74	60.00
180.0	8' Yagi	1	10.553	17.835	1.00	20.00	0.000	0.000	0.00	0.00	5,975.72	9,867.90
180.0	20' Dipole	1	10.553	17.835	1.00	20.00	0.000	0.000	0.00	0.00	0.00	0.00

Pole : 370627
 Location : Newington CT
 Height : 179.0 (ft)
 Base Dia : 62.93 (in)
 Top Dia : 22.31 (in)
 Shape : 18 Sides
 Taper : 0.245810 (in/ft)

Code: TIA/EIA-222 Rev F
 Base Elev : 0.000 (ft)
 © 2007 - 2014 by ATC IP LLC. All rights reserved.



Load Case: Twist/Sway 50.00 mph Wind with No Ice 24 Iterations
 Gust Response Factor : 1.69
 Dead Load Factor : 1.00
 Wind Load Factor : 1.00

Applied Segment Forces Summary

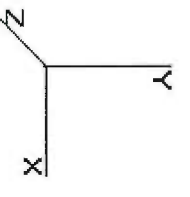
Seg Elev (ft)	Lateral FX (-) (lb)	Axial FY (-) (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)
0.00	0.00	0.00	0.00	0.00
5.00	182.56	1,349.40	0.00	0.00
10.00	178.96	1,324.51	0.00	0.00
15.00	175.36	1,299.62	0.00	0.00
20.00	171.76	1,274.73	0.00	0.00
25.00	168.16	1,249.85	0.00	0.00
30.00	164.56	1,224.96	0.00	0.00
31.25	40.58	302.35	0.00	0.00
35.00	124.10	1,735.62	0.00	0.00
37.50	83.21	1,141.52	0.00	0.00
40.00	83.81	592.07	0.00	0.00
45.00	170.41	1,165.48	0.00	0.00
50.00	171.56	1,140.59	0.00	0.00
55.00	172.13	1,115.70	0.00	0.00
60.00	172.20	1,090.82	0.00	0.00
63.25	111.30	695.68	0.00	0.00
65.00	60.57	712.57	0.00	0.00
68.75	130.06	1,506.40	0.00	0.00
70.00	43.02	261.72	0.00	0.00
75.00	172.65	1,031.34	0.00	0.00
80.00	171.23	1,006.45	0.00	0.00
85.00	169.50	981.56	0.00	0.00
90.00	167.50	956.67	0.00	0.00
95.00	165.24	931.78	0.00	0.00
96.08	35.27	198.61	0.00	0.00
100.0	129.42	1,354.10	0.00	0.00
100.7	24.49	255.81	0.00	0.00
105.0	138.29	761.03	0.00	0.00
108.0	1,398.37	2,444.17	0.00	1,812.09
110.0	63.46	341.70	0.00	0.00
115.0	157.07	836.82	0.00	0.00
120.0	153.79	811.93	0.00	0.00
125.0	150.33	787.04	0.00	0.00
129.7	139.41	724.64	0.00	0.00
130.0	7.34	65.85	0.00	0.00
133.5	104.60	931.25	0.00	0.00
135.0	40.72	179.24	0.00	0.00
140.0	1,036.27	2,619.31	0.00	0.00
145.0	137.65	593.57	0.00	0.00
150.0	133.44	572.83	0.00	0.00
154.0	1,359.53	1,913.03	0.00	0.00
155.0	25.37	99.55	0.00	0.00
160.0	673.09	1,349.20	0.00	0.00
164.3	104.22	386.31	0.00	0.00
165.0	15.98	104.10	0.00	0.00
167.2	53.40	346.45	0.00	0.00
170.0	1,089.98	2,216.46	0.00	0.00
175.0	112.81	321.06	0.00	0.00
179.0	1,035.17	1,834.90	0.00	4,515.58

Pole : 370627
Location : Newington CT
Height : 179.0 (ft)
Base Dia : 62.93 (in)
Top Dia : 22.31 (in)
Shape : 18 Sides
Taper : 0.245810 (in/ft)

Code: TIA/EIA-222 Rev F
Base Elev : 0.000 (ft)

6/10/2014 5:35:12 PM
Page: 19

@ 2007 - 2014 by ATC-IP LLC. All rights reserved.



Load Case: TwistSway 50.00 mph Wind with No Ice 24 Iterations

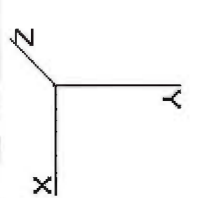
Gust Response Factor : 1.69
Dead Load Factor : 1.00
Wind Load Factor : 1.00

Totals : 11,569.94 46,140.36 0.00 6,327.67

Pole : 370627
 Location : Newington CT
 Height : 179.0 (ft)
 Base Dia : 62.93 (in)
 Top Dia : 22.31 (in)
 Shape : 18 Sides
 Taper : 0.245810 (in/ft)

Code: TIA/EIA-222 Rev F
 Base Elev : 0.000 (ft)

6/10/2014 5:35:12 PM
 Page : 20



© 2007 - 2014 by ATC IP LLC. All rights reserved.

Load Case: Twist/Sway 50.00 mph Wind with No Ice 24 Iterations

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

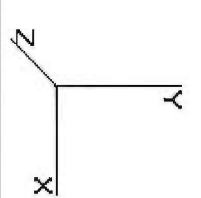
Calculated Shaft Forces and Deflections

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	-11.591	-46.135	0.000	0.000	0.000	-1.428,949	0.000	0.000	0.000	0.000
5.00	-11.450	-44.774	0.000	0.000	0.000	-1.370,997	-0.029	0.000	0.029	-0.054
10.00	-11.311	-43.439	0.000	0.000	0.000	-1.313,749	-0.115	0.000	0.115	-0.109
15.00	-11.174	-42.129	0.000	0.000	0.000	-1.257,193	-0.260	0.000	0.260	-0.165
20.00	-11.039	-40.844	0.000	0.000	0.000	-1.201,323	-0.464	0.000	0.464	-0.222
25.00	-10.906	-39.584	0.000	0.000	0.000	-1.146,128	-0.727	0.000	0.727	-0.280
30.00	-10.760	-38.353	0.000	0.000	0.000	-1.091,599	-1.052	0.000	1.052	-0.339
31.25	-10.737	-38.045	0.000	0.000	0.000	-1.078,150	-1.143	0.000	1.143	-0.354
35.00	-10.626	-36.303	0.000	0.000	0.000	-1.037,886	-1.440	0.000	1.440	-0.400
37.50	-10.553	-35.157	0.000	0.000	0.000	-1.011,322	-1.658	0.000	1.658	-0.431
40.00	-10.492	-34.557	0.000	0.000	0.000	-984,939	-1.892	0.000	1.892	-0.462
45.00	-10.347	-33.382	0.000	0.000	0.000	-932,478	-2.407	0.000	2.407	-0.521
50.00	-10.198	-32.232	0.000	0.000	0.000	-880,745	-2.985	0.000	2.985	-0.581
55.00	-10.048	-31.108	0.000	0.000	0.000	-829,754	-3.626	0.000	3.626	-0.642
60.00	-9.889	-30.010	0.000	0.000	0.000	-779,517	-4.332	0.000	4.332	-0.704
63.25	-9.786	-29.311	0.000	0.000	0.000	-747,378	-4.825	0.000	4.825	-0.745
65.00	-9.733	-28.593	0.000	0.000	0.000	-730,253	-5.103	0.000	5.103	-0.767
68.75	-9.597	-27.083	0.000	0.000	0.000	-693,755	-5.724	0.000	5.724	-0.815
70.00	-9.569	-26.816	0.000	0.000	0.000	-681,759	-5.940	0.000	5.940	-0.831
75.00	-9.408	-25.777	0.000	0.000	0.000	-633,917	-6.843	0.000	6.843	-0.891
80.00	-9.247	-24.764	0.000	0.000	0.000	-586,879	-7.809	0.000	7.809	-0.952
85.00	-9.086	-23.776	0.000	0.000	0.000	-540,646	-8.840	0.000	8.840	-1.013
90.00	-8.925	-22.813	0.000	0.000	0.000	-495,219	-9.934	0.000	9.934	-1.074
95.00	-8.756	-21.879	0.000	0.000	0.000	-450,594	-11.091	0.000	11.091	-1.135
96.08	-8.728	-21.676	0.000	0.000	0.000	-441,109	-11.350	0.000	11.350	-1.148
100.0	-8.581	-20.321	0.000	0.000	0.000	-406,923	-12.313	0.000	12.313	-1.196
100.7	-8.562	-20.061	0.000	0.000	0.000	-400,488	-12.501	0.000	12.501	-1.205
105.0	-8.422	-19.297	0.000	0.000	0.000	-364,100	-13.597	0.000	13.597	-1.256
108.0	-8.277	-18.881	0.000	0.000	0.000	-337,023	-14.397	0.000	14.397	-1.289
110.0	-8.197	-18.536	0.000	0.000	0.000	-323,069	-14.942	0.000	14.942	-1.312
115.0	-8.055	-17.697	0.000	0.000	0.000	-288,483	-16.345	0.000	16.345	-1.365
120.0	-7.895	-16.697	0.000	0.000	0.000	-254,706	-17.803	0.000	17.803	-1.418
125.0	-7.725	-15.495	0.000	0.000	0.000	-221,729	-19.316	0.000	19.316	-1.469
129.7	-7.585	-14.371	0.000	0.000	0.000	-191,152	-20.802	0.000	20.802	-1.516
130.0	-7.580	-14.095	0.000	0.000	0.000	-189,581	-20.881	0.000	20.881	-1.518
130.9	-7.580	-13.371	0.000	0.000	0.000	-167,077	-22.034	0.000	22.034	-1.553
133.5	-7.456	-12.373	0.000	0.000	0.000	-158,357	-22.497	0.000	22.497	-1.566
135.0	-7.417	-12.192	0.000	0.000	0.000	-127,773	-24.164	0.000	24.164	-1.614
140.0	-7.256	-11.117	0.000	0.000	0.000	-102,693	-25.878	0.000	25.878	-1.658
145.0	-7.086	-9.905	0.000	0.000	0.000	-78,353	-27.635	0.000	27.635	-1.696
150.0	-6.917	-8.434	0.000	0.000	0.000	-59,463	-29.068	0.000	29.068	-1.723
154.0	-6.732	-6.561	0.000	0.000	0.000	-39,743	-31.255	0.000	31.255	-1.756
155.0	-6.725	-6.462	0.000	0.000	0.000	-28,605	-32.857	0.000	32.857	-1.774
160.0	-6.570	-5.132	0.000	0.000	0.000	-21,486	-33.945	0.000	33.945	-1.785
164.3	-6.455	-4.749	0.000	0.000	0.000	-14,960	-34.975	0.000	34.975	-1.793
165.0	-6.437	-4.645	0.000	0.000	0.000	-8,885	-36.859	0.000	36.859	-1.805
167.2	-6.373	-4.300	0.000	0.000	0.000	-4,516	-38.374	0.000	38.374	-1.811
170.0	-6.215	-2.119	0.000	0.000	0.000					
175.0	-6.092	-1.801	0.000	0.000	0.000					
179.0	-6.035	0.000	0.000	0.000	0.000					

Pole : 370627
 Location : Newington CT
 Height : 179.0 (ft)
 Base Dia : 62.93 (in)
 Top Dia : 22.31 (in)
 Shape : 18 Sides
 Taper : 0.245810 (in/ft)

Code: TIA/EIA-222 Rev F
 6/10/2014 5:35:12 PM
 Page: 21

© 2007 - 2014 by ATC IP LLC. All rights reserved.



Load Case: Twist/Sway 50.00 mph Wind with No Ice 24 Iterations
 Gust Response Factor : 1.69
 Dead Load Factor : 1.00
 Wind Load Factor : 1.00

Calculated Stresses

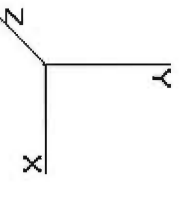
Seg Elev (ft)	Axial (Y) (ksi)	Shear (X) (ksi)	Shear (Z) (ksi)	Applied Stresses			Combined (ksi)	Allowable Stress (Fb) (ksi)	Stress Ratio	
				Torsion (ksi)	Bending (X) (ksi)	Bending (Z) (ksi)				
0.00	0.62	0.31	0.00	0.00	0.00	14.88	15.51	49.1	0.0	0.316
5.00	0.61	0.32	0.00	0.00	0.00	14.86	15.48	49.6	0.0	0.312
10.00	0.61	0.32	0.00	0.00	0.00	14.83	15.44	50.1	0.0	0.308
15.00	0.60	0.32	0.00	0.00	0.00	14.79	15.40	50.6	0.0	0.304
20.00	0.60	0.32	0.00	0.00	0.00	14.74	15.35	51.1	0.0	0.300
25.00	0.59	0.33	0.00	0.00	0.00	14.69	15.29	51.6	0.0	0.296
30.00	0.58	0.33	0.00	0.00	0.00	14.62	15.21	52.0	0.0	0.293
31.25	0.58	0.33	0.00	0.00	0.00	14.60	15.20	52.0	0.0	0.292
35.00	0.57	0.33	0.00	0.00	0.00	14.54	15.12	52.0	0.0	0.291
37.50	0.55	0.33	0.00	0.00	0.00	14.10	14.66	52.0	0.0	0.282
40.00	0.54	0.33	0.00	0.00	0.00	14.05	14.60	52.0	0.0	0.281
45.00	0.54	0.34	0.00	0.00	0.00	13.94	14.49	52.0	0.0	0.279
50.00	0.53	0.34	0.00	0.00	0.00	13.81	14.35	52.0	0.0	0.276
55.00	0.52	0.34	0.00	0.00	0.00	13.66	14.20	52.0	0.0	0.273
60.00	0.52	0.34	0.00	0.00	0.00	13.49	14.03	52.0	0.0	0.270
63.25	0.51	0.35	0.00	0.00	0.00	13.38	13.91	52.0	0.0	0.268
65.00	0.51	0.35	0.00	0.00	0.00	13.31	13.83	52.0	0.0	0.266
68.75	0.48	0.34	0.00	0.00	0.00	12.74	13.23	52.0	0.0	0.255
70.00	0.48	0.35	0.00	0.00	0.00	12.68	13.18	52.0	0.0	0.253
75.00	0.47	0.35	0.00	0.00	0.00	12.44	12.93	52.0	0.0	0.249
80.00	0.47	0.35	0.00	0.00	0.00	12.16	12.65	52.0	0.0	0.243
85.00	0.46	0.36	0.00	0.00	0.00	11.86	12.33	52.0	0.0	0.237
90.00	0.46	0.36	0.00	0.00	0.00	11.51	11.98	52.0	0.0	0.231
95.00	0.45	0.36	0.00	0.00	0.00	11.12	11.59	52.0	0.0	0.223
96.08	0.45	0.37	0.00	0.00	0.00	11.03	11.49	52.0	0.0	0.221
100.00	0.43	0.37	0.00	0.00	0.00	10.68	11.13	52.0	0.0	0.214
100.75	0.42	0.36	0.00	0.00	0.00	10.21	10.65	52.0	0.0	0.205
105.00	0.42	0.37	0.00	0.00	0.00	9.79	10.23	52.0	0.0	0.197
108.00	0.37	0.31	0.00	0.00	0.00	9.42	9.80	52.0	0.0	0.189
110.00	0.37	0.31	0.00	0.00	0.00	9.26	9.65	52.0	0.0	0.186
115.00	0.36	0.31	0.00	0.00	0.00	8.84	9.22	52.0	0.0	0.177
120.00	0.35	0.32	0.00	0.00	0.00	8.36	8.73	52.0	0.0	0.168
125.00	0.35	0.32	0.00	0.00	0.00	7.82	8.18	52.0	0.0	0.157
129.75	0.34	0.32	0.00	0.00	0.00	7.23	7.59	52.0	0.0	0.146
130.00	0.34	0.32	0.00	0.00	0.00	7.20	7.56	52.0	0.0	0.145
133.58	0.38	0.38	0.00	0.00	0.00	7.69	8.10	52.0	0.0	0.156
135.00	0.38	0.38	0.00	0.00	0.00	7.44	7.85	52.0	0.0	0.151
140.00	0.31	0.33	0.00	0.00	0.00	6.44	6.83	52.0	0.0	0.131
145.00	0.30	0.33	0.00	0.00	0.00	5.66	5.99	52.0	0.0	0.115
150.00	0.30	0.34	0.00	0.00	0.00	4.70	5.03	52.0	0.0	0.097
154.00	0.24	0.24	0.00	0.00	0.00	3.83	4.09	52.0	0.0	0.079
155.00	0.24	0.24	0.00	0.00	0.00	3.68	3.94	52.0	0.0	0.076
160.00	0.20	0.20	0.00	0.00	0.00	2.85	3.07	52.0	0.0	0.059
164.33	0.19	0.20	0.00	0.00	0.00	2.23	2.45	52.0	0.0	0.047
165.00	0.19	0.20	0.00	0.00	0.00	2.13	2.35	52.0	0.0	0.045
167.25	0.22	0.24	0.00	0.00	0.00	2.12	2.37	52.0	0.0	0.046
170.00	0.11	0.13	0.00	0.00	0.00	1.56	1.68	52.0	0.0	0.032
175.00	0.10	0.12	0.00	0.00	0.00	1.03	1.15	52.0	0.0	0.022
179.00	0.00	0.12	0.00	0.00	0.00	0.57	0.61	52.0	0.0	0.012

Pole : 370627
 Location : Newington CT
 Height : 179.0 (ft)
 Base Dia : 62.93 (in)
 Top Dia : 22.31 (in)
 Shape : 18 Sides
 Taper : 0.245810 (in/ft)

Code: TIA/EIA-222 Rev F
 Base Elev : 0.000 (ft)

6/10/2014 5:35:12 PM
 Page: 22

@ 2007 - 2014 by ATC IP LLC. All rights reserved.



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	33.5	0.00	46.09	0.00	0.00	4125.69	43.61	49.1	0.00	0.888
Ice	27.2	0.00	53.72	0.00	0.00	3421.35	36.37	49.1	0.00	0.740
Twist/Sway	11.6	0.00	46.13	0.00	0.00	1428.95	15.51	49.1	0.00	0.316

Base/Flange Plate	
Plate Type	Baseplate
Pole Diameter	62.94 in
Pole Thickness	0.375 in
Plate Diameter	73 in
Plate Thickness	1.5 in
Plate Fy	50 ksi
Weld Length	0.3125 in
Allowable	514.39 k-in
Applied	100.57 k-in
# 45 Show	
Thickness	0.375 in
Length	5 in
Height	10 in
Chamfer	0 in
Offset Angle	0°
Fy	36 ksi

Bolts	
#	45
Bolt Circle (R)radial / (S)quare	68 in R
Diameter	1.25 in
Hole Diameter	1.375 in
Type	A687
Fy	105 ksi
Fu	150 ksi
Allowable	81.41 k
Applied	65.73 k
# 0	

Reinforcement	
#	0
# 0	

Code Rev.	F	Date	6/10/2014
A.S.I.	1.33	Engineer	J. King
Moment	4125.7 k-ft	Site #	370627
Axial	46.1 k	Carrier	Metro PCS

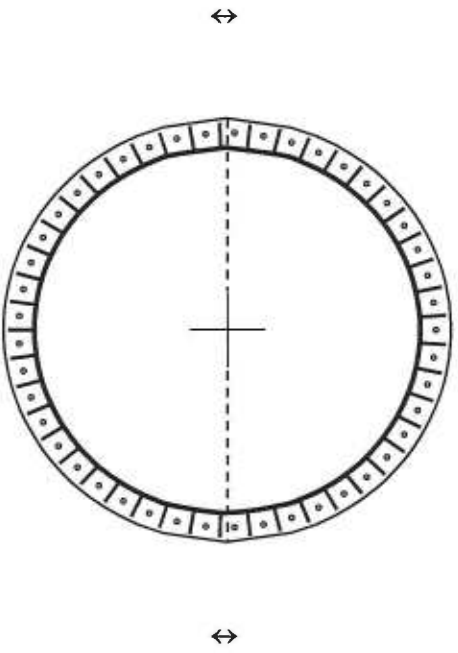


Plate Stress Ratio: (Pass)

Bolt Stress Ratio: (Pass)

EXHIBIT C

RADIO FREQUENCY EMISSIONS ANALYSIS REPORT
EVALUATION OF HUMAN EXPOSURE POTENTIAL
TO NON-IONIZING EMISSIONS

Metro MobilePCS Existing Facility

Site ID: CTHA342A

Newington CT
605 Willard Avenue
Newington, CT 06111

July 10, 2014

EBI Project Number: 62143498

July 10, 2014

Metro MobilePCS USA
Attn: Jason Overbey, RF Manager
35 Griffin Road South
Bloomfield, CT 06002

Re: Emissions Values for Site: **CTHA342A - Newington CT**

EBI Consulting was directed to analyze the proposed Metro MobilePCS facility located at 605 Willard Avenue, Newington, CT, for the purpose of determining whether the emissions from the Proposed Metro MobilePCS Antenna Installation located on this property are within specified federal limits.

All information used in this report was analyzed as a percentage of current Maximum Permissible Exposure (% MPE) as listed in the FCC OET Bulletin 65 Edition 97-01 and ANSII/IEEE Std C95.1. The FCC regulates Maximum Permissible Exposure in units of microwatts per square centimeter ($\mu\text{W}/\text{cm}^2$). The number of $\mu\text{W}/\text{cm}^2$ calculated at each sample point is called the power density. The exposure limit for power density varies depending upon the frequencies being utilized. Wireless Carriers and Paging Services use different frequency bands each with different exposure limits, therefore it is necessary to report results and limits in terms of percent MPE rather than power density.

All results were compared to the FCC (Federal Communications Commission) radio frequency exposure rules, 47 CFR 1.1307(b)(1) – (b)(3), to determine compliance with the Maximum Permissible Exposure (MPE) limits for General Population/Uncontrolled environments as defined below.

General population/uncontrolled exposure limits apply to situations in which the general public may be exposed or in which persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Therefore, members of the general public would always be considered under this category when exposure is not employment related, for example, in the case of a telecommunications tower that exposes persons in a nearby residential area.

Public exposure to radio frequencies is regulated and enforced in units of microwatts per square centimeter ($\mu\text{W}/\text{cm}^2$). The general population exposure limit for the cellular band is 567 $\mu\text{W}/\text{cm}^2$, and the general population exposure limit for the PCS and AWS bands is 1000 $\mu\text{W}/\text{cm}^2$. 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.

Occupational/controlled exposure limits apply to situations in which persons are exposed as a consequence of their employment and in which those persons who are exposed have been made fully aware of the potential for exposure and can exercise control over their exposure. Occupational/controlled exposure limits also apply where exposure is of a transient nature as a result of incidental passage through a location where exposure levels may be above general population/uncontrolled limits (see below), as long as the exposed person has been made fully aware of the potential for exposure and can exercise control over his or her exposure by leaving the area or by some other appropriate means.

Additional details can be found in FCC OET 65.

CALCULATIONS

Calculations were done for the proposed Metro MobilePCS Wireless antenna facility located at 605 Willard Avenue, Newington, CT, using the equipment information listed below. All calculations were performed per the specifications under FCC OET 65. Since Metro MobilePCS is proposing highly focused directional panel antennas, which project most of the emitted energy out toward the horizon, the actual antenna pattern gain value in the direction of the sample area was used. For this report the sample point is a 6 foot person standing at the base of the tower

For all calculations, all equipment was calculated using the following assumptions:

- 1) 2 GSM channels (1935.000 MHz—to 1945.000 MHz) were considered for each sector of the proposed installation.
- 2) 2 UMTS channels (2110.000 MHz to 2120.000 MHz / 2140.000 MHz to 2145.000 MHz) were considered for each sector of the proposed installation.
- 3) 2 LTE channels (2110.000 MHz to 2120.000 MHz / 2140.000 MHz to 2145.000 MHz) were considered for each sector of the proposed installation.
- 4) All radios at the proposed installation were considered to be running at full power and were uncombined in their RF transmissions paths per carrier prescribed configuration. Per FCC OET Bulletin No. 65 - Edition 97-01 recommendations to achieve the maximum anticipated value at each sample point, all power levels emitting from the proposed antenna installation are increased by a factor of 2.56 to account for possible in-phase reflections from the surrounding environment. This is rarely the case, and if so, is never continuous.
- 5) For the following calculations the sample point was the top of a six foot person standing at the base of the tower. The actual gain in this direction was used per the manufacturers supplied specifications.
- 6) The antenna used in this modeling is the Ericsson AIR21 for LTE, UMTS and GSM. This is based on feedback from the carrier with regards to anticipated antenna selection. This antenna has a 15.6 dBd gain value at its main lobe. Actual antenna gain values were used for all calculations as per the manufacturers specifications.

- 7) The antenna mounting height centerline of the proposed antennas is **170 feet** above ground level (AGL).
- 8) Emissions values for additional carriers were taken from the Connecticut Siting Council active database. Values in this database are provided by the individual carriers themselves.

All calculations were done with respect to uncontrolled / general public threshold limits.

Site ID	CTHA342A - Newington CT
Site Address	605 Willard Avenue, Newington, CT 06111
Site Type	Monopole

Sector 1																	
Antenna Number	Antenna Make	Antenna Model	Status	Frequency Band	Technology	Power Out Per Channel (Watts)	Number of Channels	Composite Power	Antenna Gain in direction of sample point (dBd)	Antenna Height (ft)	analysis height	Cable Size	Cable Loss (dB)	Additional Loss	ERP	Power Density Value	Power Density Percentage
1a	Ericsson	AIR21 B4A/B2P	Active	AWS - 2100 MHz	LTE	60	2	120	-3.95	170	164	None	0	0	48.326044	0.645951	0.06460%
1b	Ericsson	AIR21 B4A/B2P	Not Used	-	-	-	-	0	-3.95	170	164	None	0	0	0	0	0.00000%
2a	Ericsson	AIR21 B2A / B4P	Active	PCS - 1950 MHz	GSM / UMTS	30	2	60	-3.95	170	164	1-5/8"	0	0	24.163022	0.322975	0.03230%
2B	Ericsson	AIR21 B2A / B4P	Passive	AWS - 2100 MHz	UMTS	30	2	60	-3.95	170	164	1-5/8"	0	0	24.163022	0.322975	0.03230%
															Sector total Power Density Value: 0.129%		
Sector 2																	
Antenna Number	Antenna Make	Antenna Model	Status	Frequency Band	Technology	Power Out Per Channel (Watts)	Number of Channels	Composite Power	Antenna Gain in direction of sample point (dBd)	Antenna Height (ft)	analysis height	Cable Size	Cable Loss (dB)	Additional Loss	ERP	Power Density Value	Power Density Percentage
1a	Ericsson	AIR21 B4A/B2P	Active	AWS - 2100 MHz	LTE	60	2	120	-3.95	170	164	None	0	0	48.326044	0.645951	0.06460%
1b	Ericsson	AIR21 B4A/B2P	Not Used	-	-	-	-	0	-3.95	170	164	None	0	0	0	0	0.00000%
2a	Ericsson	AIR21 B2A / B4P	Active	PCS - 1950 MHz	GSM / UMTS	30	2	60	-3.95	170	164	1-5/8"	0	0	24.163022	0.322975	0.03230%
2b	Ericsson	AIR21 B2A / B4P	Passive	AWS - 2100 MHz	UMTS	30	2	60	-3.95	170	164	1-5/8"	0	0	24.163022	0.322975	0.03230%
															Sector total Power Density Value: 0.129%		
Sector 3																	
Antenna Number	Antenna Make	Antenna Model	Status	Frequency Band	Technology	Power Out Per Channel (Watts)	Number of Channels	Composite Power	Antenna Gain in direction of sample point (dBd)	Antenna Height (ft)	analysis height	Cable Size	Cable Loss (dB)	Additional Loss	ERP	Power Density Value	Power Density Percentage
1a	Ericsson	AIR21 B4A/B2P	Active	AWS - 2100 MHz	LTE	60	2	120	-3.95	170	164	None	0	0	48.326044	0.645951	0.06460%
1b	Ericsson	AIR21 B4A/B2P	Not Used	-	-	-	-	0	-3.95	170	164	None	0	0	0	0	0.00000%
2a	Ericsson	AIR21 B2A / B4P	Active	PCS - 1950 MHz	GSM / UMTS	30	2	60	-3.95	170	164	1-5/8"	0	0	24.163022	0.322975	0.03230%
2b	Ericsson	AIR21 B2A / B4P	Passive	AWS - 2100 MHz	UMTS	30	2	60	-3.95	170	164	1-5/8"	0	0	24.163022	0.322975	0.03230%
															Sector total Power Density Value: 0.129%		

Site Composite MPE %	
Carrier	MPE %
Metro MobilePCS	0.388%
Nextel	3.960%
Town of Newington	0.270%
Verizon Wireless	31.920%
Clearwire	0.730%
AT&T	15.360%
Sprint	5.080%
Total Site MPE %	57.708%

Summary

All calculations performed for this analysis yielded results that were well within the allowable limits for general public exposure to RF Emissions.

The anticipated Maximum Composite contributions from the Metro MobilePCS facility are **0.388%** (**0.129% from each sector**) of the allowable FCC established general public limit considering all three sectors simultaneously sampled at the ground level.

The anticipated composite MPE value for this site assuming all carriers present is **57.708%** of the allowable FCC established general public limit sampled at the ground level. This is based upon values listed in the Connecticut Sting Council database for existing carrier emissions.

FCC guidelines state that if a site is found to be out of compliance (over allowable thresholds), that carriers over a 5% contribution to the composite value will require measures to bring the site into compliance. For this facility, the composite values calculated were well within the allowable 100% threshold standard per the federal government.



Scott Heffernan
RF Engineering Director

EBI Consulting
21 B Street
Burlington, MA 01803