300 Meridian Centre
Rochester, NY 14618

December 10, 2019

Melanie A. Bachman
Executive Director
Connecticut Siting Council
10 Franklin Square
New Britain, CT 06051

RE: **Notice of Exempt Modification for Verizon**
Crown Site BU: 841290
363 Riversville Road, Greenwich, CT 06831
Lat: 41° 3' 58.60"/ Long: -73° 40' 17.40"

Dear Ms. Bachman:

Verizon currently maintains fifteen (15) total antennas at the 142-foot mount on the existing 160-foot monopole tower, located at 363 Riversville Road, Greenwich, CT. The tower is owned by Crown Castle and the property is owned by the Greenwich Council Boy Scouts of America. Verizon now intends to replace nine (9) existing antennas at the 142-foot mount.

Tower modifications:

- Remove three (3) 700 LTE antennas
- Remove three (3) PCS LTE antennas
- Remove three (3) AWS LTE antennas
- Remove three (3) 700 LTE RRHs
- Remove three (3) PCS LTE RRHs
- Remove three (3) AWS LTE RRHs
- Add six (6) octaport antennas on side-by-side mounting brackets
- Add three (3) CBRS antennas
- Add three (3) PCS/AWS LTE RRHs
- Add three (3) CBRS RRHs

Ground modifications:

- None

Melanie A. Bachman

This facility was approved by the Town of Greenwich on July 9, 1985. There is no copy available of the original approval. Email attached from the Town of Greenwich confirms this.

Please accept this letter as notification pursuant to Regulations of Connecticut State Agencies § 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.S.C.A. § 16-50j-73, a copy of this letter is being sent to Mr. Fred Camillo - First-Selectman, Ms. Katie DeLuca - Town Planner, as well as the property owner.

1. The proposed modifications will not result in an increase in the height of the existing tower.

2. The proposed modifications will not require the extension of the site boundary.

3. The proposed modification will not increase noise levels at the facility by six decibels or more, or to levels that exceed state and local criteria.

4. The operation of the replacement antennas will not increase radio frequency emissions at the facility to a level at or above the Federal Communication Commission safety standard.

5. The proposed modifications will not cause a change or alteration in the physical or environmental characteristics of the site.

6. The existing structure and its foundation can support the proposed loading.

For the foregoing reasons, Verizon respectfully submits that the proposed modifications to the above-reference telecommunications facility constitutes an exempt modification under R.C.S.A. § 16-50j-72(b)(2). Please send approval/rejection letter to my attention at the address listed below.

Sincerely,

Richard Zajac
Network Real Estate Specialist
300 Meridian Centre
Rochester, NY 14618
585-445-5896
richard.zajac@crowncastle.com

Melanie A. Bachman

cc:

Mr. Fred Camillo – First Selectman
Town of Greenwich
101 Field Point Road
Greenwich, CT 06830

Ms. Katie DeLuca – Town Planner
Town of Greenwich
101 Field Point Road
Greenwich, CT 06830

Greenwich Council Boy Scouts of America
63 Mason Street
Greenwich, CT 06830

After printing this label:
1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.
Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com.FedEx will not be responsible for any claim in excess of $100 per package, whether the result of loss, damage, delay, non-delivery,misdelivery,or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim.Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental,consequential, or special is limited to the greater of $100 or the authorized declared value. Recovery cannot exceed actual documented loss.Maximum for items of extraordinary value is $1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our ServiceGuide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

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Exhibit A

Original Facility Approval

Terry, Dashanna

From: Patrick LaRow <Patrick.LaRow@greenwichct.org>
Sent: Thursday, January 21, 2016 12:08 PM
To: Terry, Dashanna
Cc: Barbadora, Jeff
Subject: Re: Zoning Documents - Tower at 363 Riversville Road

The Planning and Zoning office does not have any documents related to a telecommunications facility at this address.

Patrick LaRow, AICP
Deputy Director / Assistant Town Planner

Town of Greenwich
Planning and Zoning
101 Field Point Road
Greenwich, CT 06830

Phone: (203) 622-7894 Fax: (203) 622-3795
Patrick.LaRow@greenwichct.org

From: "Terry, Dashanna" <Dashanna.Terry@crowncastle.com>
To: "patrick.larow@greenwichct.org" <patrick.larow@greenwichct.org>
Cc: "Barbadora, Jeff" <Jeff.Barbadora@crowncastle.com>
Date: 01/21/2016 10:29 AM
Subject:Zoning Documents - Tower at 363 Riversville Road

Hello Patrick,

Thank you for speaking with me this morning regarding zoning documents for the tower at 363 Riversville Road. Could you please confirm here that you do not have original zoning documents for this tower?

Best,
Dashanna

DASHANNA TERRY
Real Estate Project Coordinator
T: (781) 970-0067| M: (571) 241-0984

cid:image001.png@01CF9124.0525FEA0
12 Gill Street, Suite 5800, Woburn, MA 01801 Crowncastle.com

Exhibit B

Property Card

Headquarters	Greenwich, Connecticut
Country	United States
Founded	1912
Website	reenwichscouting.org

Greenwich Council: Camps

It owns and operates the Ernest Thompson Seton Scout Reservation, a 249-acre (1.01 km) camp located off 363 Riversville Road in Greenwich and named for Ernest Thompson Seton.

Greenwich Council: Order of the Arrow

Achewon Netopalis Lodge No. 427 is the Order of the Arrow lodge for the Greenwich Council. The lodge's name translates to "Spiritual Warrior" in the Algonquian language. The lodge totem is a green witch. Founded in 1949, it is still in existence. In 1977, the lodge received the E. Urner Goodman Award for its effectiveness in promoting and increasing Scout camping in its council.

Greenwich Council: See also

- Scouting in Connecticut

Greenwich Council: References

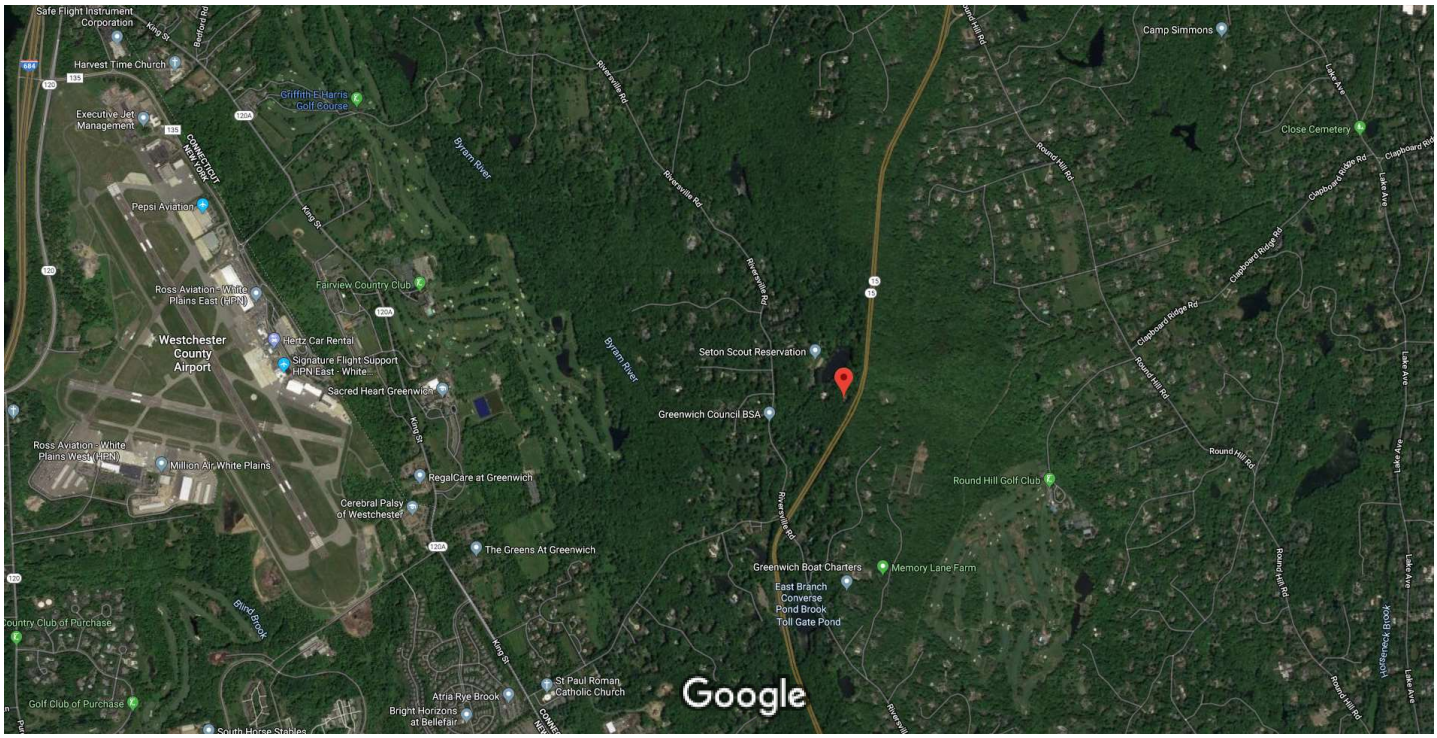
Boy Scouts of America Organization

- Boy Scouts of America
- Cub Scouting
- Boy Scouting
- Varsity Scouting
- Venturing
- Sea Scouting
- Order of the Arrow
- National Eagle Scout Association
- Learning for Life
- Exploring

Google Maps

41°03'58.6"N 73°40'17.4"W

Crown Castle - tower location



Imagery ©2019 Maxar Technologies, New York GIS, USDA Farm Service Agency, Map data ©2019 1000 ft

41°03'58.6"N 73°40'17.4"W

41.066278, -73.671500

Directions | Save | Nearby | Send to your phone | Share

Greenwich, CT 06831

388H+GC Greenwich, Connecticut

Exhibit C

Construction Drawings

verizon

W GREENWICH CT
363 RIVERSVILLE ROAD
GREENWICH, CT 06831

PROJECT SUMMARY

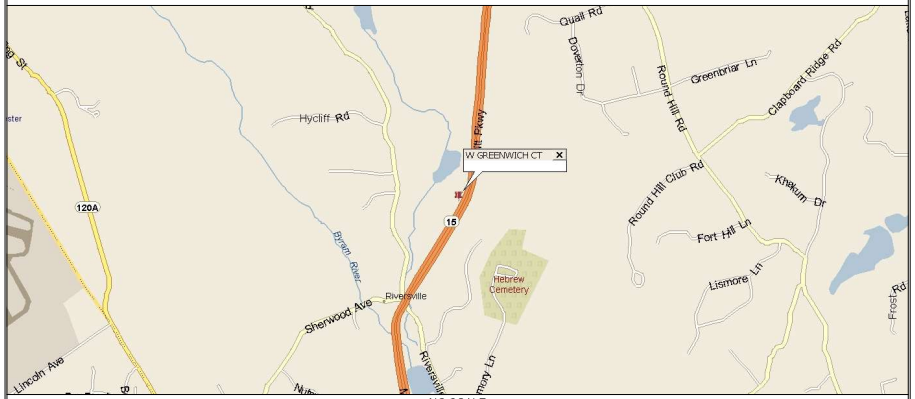
SITE NAME:	W GREENWICH CT
SITE ADDRESS:	363 RIVERSVILLE ROAD GREENWICH, CT 06831
TOWER OWNER:	CROWN CASTLE 2000 CORPORATE DR CANONSBURG, PA 15317
BU NUMBER:	841290
MAP NUMBER:	N/A
LOT NUMBER:	N/A
CUSTOMER/APPLICANT:	VERIZON WIRELESS 400 FRIEBERG PARKWAY WESTBOROUGH, MA 01581
CONTACT:	DAN MYZYRI (617) 945-7288
NAD83	
LATITUDE:	41° 3' 58.3488" N
LONGITUDE:	73° 40' 16.4640" W
ELEVATION:	225'
CURRENT ZONING:	N/A
A&E FIRM:	B+T GROUP 1717 S. BOULDER, SUITE 300 TULSA, OK 74119 MIKE OAKES (918) 587-4630
OCCUPANCY TYPE:	UNMANNED
A.D.A. COMPLIANCE:	FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION.

CODE COMPLIANCE

ALL WORK SHALL BE PERFORMED AND MATERIALS INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES:

CODE TYPE	CODE
BUILDING	2018 CT SBC
STRUCTURAL	2018 CT SBC
MECHANICAL	2018 CT SBC
ELECTRICAL	NEC 2017

LOCATION MAP



NO SCALE

DRIVING DIRECTIONS

DEPART LA GUARDIA AIRPORT ON LOCAL ROAD(S) ON CENTRAL TERMINAL DR. BEAR RIGHT ONTO 94TH ST. TAKE RAMP (RIGHT) ONTO GRAND CENTRAL PKWY. AT EXIT 9E, KEEP RIGHT ONTO RAMP. KEEP LEFT TO STAY ON RAMP. KEEP LEFT TO STAY ON RAMP. TAKE RAMP (LEFT) ONTO I-678 [WHITESTONE EXPY]. STAY ON I-678 [WHITESTONE EXPY]. STAY ON I-678 [HUTCHINSON RIVER PKWY]. ROAD NAME CHANGES TO HUTCHINSON RIVER PKWY N. ENTERING CONNECTICUT. ROAD NAME CHANGES TO CT-15 [MERRITT PKWY]. AT EXIT 27, KEEP RIGHT ONTO RAMP. BEAR RIGHT ONTO LOCAL ROAD(S). TURN LEFT ONTO RAMP, THEN IMMEDIATELY TURN LEFT ONTO GLEN RIDGE RD. BEAR LEFT ONTO GLENVILLE ST. TURN LEFT ONTO RIVERSVILLE RD. BEAR RIGHT ONTO THUNDER MOUNTAIN RD. TURN LEFT TO ARRIVE AT W GREENWICH CT.

DRAWING INDEX

SHEET #	SHEET DESCRIPTION	REV. #
T-1	TITLE SHEET	0
A-1	COMPOUND PLAN AND TOWER ELEVATION	0
A-2	EQUIPMENT DETAILS	0

A/E DOCUMENT REVIEW STATUS

TITLE	SIGNATURE	DATE
OWNER:		
R.F. ENGINEER:		
CONSTRUCTION MGR.:		
LEASING & ZONING:		
VERIZON WIRELESS:		

THE FOLLOWING PARTIES HEREBY APPROVE AND ACCEPT THESE DOCUMENTS AND AUTHORIZE THE CONTRACTOR TO PROCEED WITH THE CONSTRUCTION DESCRIBED HEREIN. ALL DOCUMENTS ARE SUBJECT TO REVIEW BY THE LOCAL BUILDING DEPARTMENT AND MAY IMPOSE CHANGES OR MODIFICATIONS.

DO NOT SCALE DRAWINGS

ALL DRAWINGS CONTAINED HEREIN ARE FORMATTED FOR 11x17. CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.

CALL CONNECTICUT ONE CALL
(800) 922-4455
CALL 3 WORKING DAYS
BEFORE YOU DIG!

811

B+T GRP

verizon
400 FRIBERG PARKWAY
WESTBOROUGH, MA 01581
PH: (508) 330-3300

W GREENWICH CT
363 RIVERSVILLE ROAD
GREENWICH, CT 06831
EXISTING MONOPOLE

PROJECT NO:	94951.002.01
CHECKED BY:	FWP

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION
0	10/23/19	DAC	CONSTRUCTION

B&T ENGINEERING, INC.
PEC.0001564
Expires 2/10/20

STATE OF CONNECTICUT
31627
LICENSED
PROFESSIONAL ENGINEER

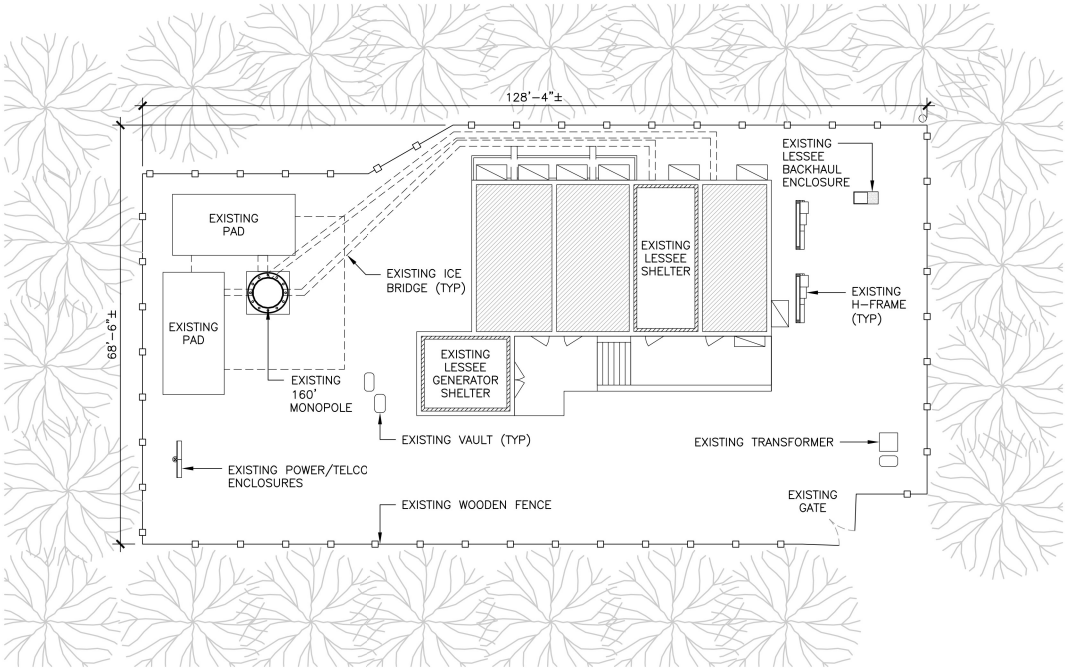
10/23/19

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

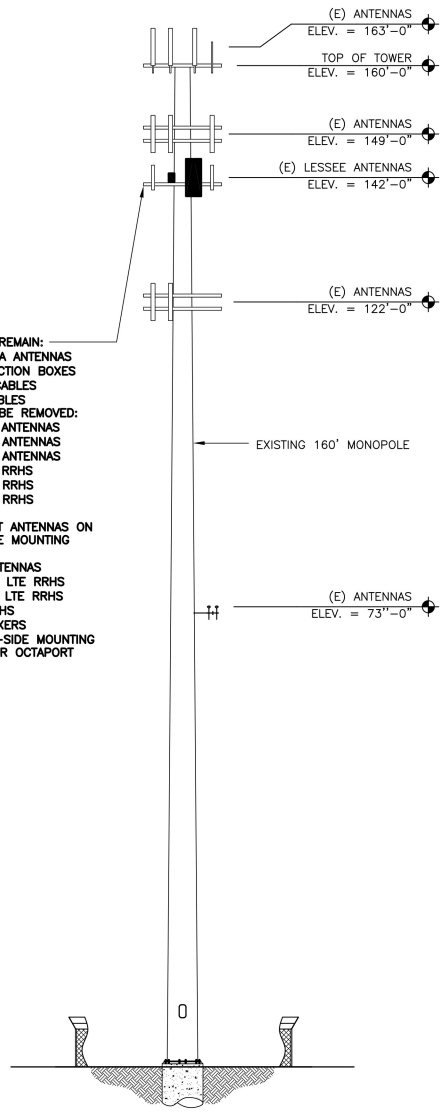
SHEET NUMBER:	REVISION:
T-1	0

94951_841290_Greenwich North.dwg – Sheet:T-1 – User: fperkins – Oct 23, 2019 – 1:51pm

NOTES:
1. CONTRACTOR TO VERIFY EXACT COAX AND ANTENNA INSTALLATION AND ANTENNA HEIGHT WITH LATEST RF DATA SHEETS PRIOR TO INSTALLATION.
2. STRUCTURAL ANALYSIS DONE BY OTHERS.
3. VERIZON SHALL PROVIDE A STRUCTURAL ANALYSIS OF THE TOWER PREPARED BY A LICENSED STATE STRUCTURAL ENGINEER CERTIFYING THAT THE EXISTING TOWER AND PROPOSED IMPROVEMENTS HAVE SUFFICIENT CAPACITY TO SUPPORT ALL NEW WORK THAT WILL BE DONE IN COMPLIANCE WITH THE CURRENT EDITION OF BUILDING CODES AND EIA/TIA CRITERIA. THE CONTRACTOR IS RESPONSIBLE TO CONFIRM THAT ANY AND ALL IMPROVEMENTS REQUIRED BY THE STRUCTURAL ANALYSIS CERTIFICATION ARE PROPERLY INSTALLED PRIOR TO THE ADDITION OF ANTENNAS, SUPPORTS AND APPURTENANCES PROPOSED ON THESE DRAWING OTHERWISE NOTED IN THE STRUCTURAL ANALYSIS.CAP AND WEATHERPROFF UNUSED ANTENNA PORTS.
4. ESTIMATED HYBRIFLEX CABLE LENGTH: 192' (EACH RUN)



EXISTING TO REMAIN:
(6) 850 CDMA ANTENNAS
(2) OVP JUNCTION BOXES
(2) HYBRID CABLES
(6) COAX CABLES
EXISTING TO BE REMOVED:
(3) 700 LTE ANTENNAS
(3) PCS LTE ANTENNAS
(3) AWS LTE ANTENNAS
(3) 700 LTE RRHS
(3) PCS LTE RRHS
(3) AWS LTE RRHS
PROPOSED:
(6) OCTAPORT ANTENNAS ON SIDE-BY-SIDE MOUNTING BRACKETS
(3) CBRS ANTENNAS
(3) PCS/AWS LTE RRHS
(3) 700/850 LTE RRHS
(3) CBRS RRHS
(3) QUADPLEXERS
(3) SIDE-BY-SIDE MOUNTING BRACKETS FOR OCTAPORT ANTENNAS



1 COMPOUND PLAN
SCALE: 0' 10' 20' 30' 40' 1"=20'

N

2 FINAL TOWER ELEVATION
SCALE: 0' 10' 20' 30' 40' 1"=20'

B+T GRP

verizon

400 FRIBERG PARKWAY
WESTBOROUGH, MA 01581
PH: (508) 330-3300

W GREENWICH CT

363 RIVERSVILLE ROAD
GREENWICH, CT 06831

EXISTING MONOPOLE

PROJECT NO:	94951.002.01
CHECKED BY:	FWP

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION
0	10/23/19	DAC	CONSTRUCTION

B&T ENGINEERING, INC.
PEC.0001564
Expires 2/10/20

STATE OF CONNECTICUT 31627 LICENSED PROFESSIONAL ENGINEER

10/23/19

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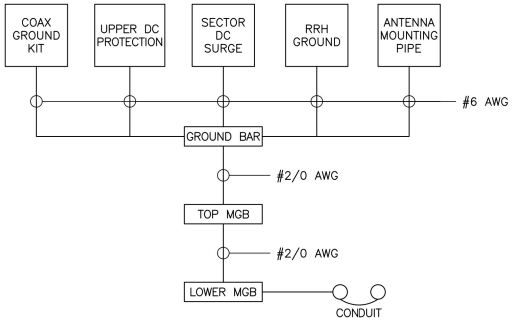
SHEET NUMBER: A-1
REVISION: 0

94951_841290_Greenwich North.dwg — Sheet:A-1 — User: fperkins — Oct 23, 2019 — 1:51pm

NOTE:
1. INSTALL ALL EQUIPMENT, MOUNTING BRACKETS AND HARDWARE ACCORDING WITH MANUFACTURE'S RECOMMENDATIONS.
2. GROUND DISTRIBUTION BOXES, MOUNTING PIPES AND RRHs IN ACCORDANCE WITH MANUFACTURE'S RECOMMENDATIONS.
3. INSTALLED EQUIPMENT AND MOUNTING BRACKETS SHALL NOT INTERFERE WITH CLIMBING ACCESS NOR ANT INSTALLED SAFETY DEVICES.
4. EQUIPMENT TO BE INSTALLED AT VERIZON'S RAD. CENTER IN ACCORDANCE WITH TOWER STRUCTURAL ANALYSIS (ANALYSIS BY OTHERS).

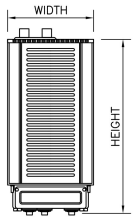


NOTE:
1. BOND ANTENNA GROUNDING KIT CABLES TO TOP CIBE.
2. BOND ANTENNA GROUNDING KIT CABLE TO BOTTOM CIBE.
3. TYPICAL FOR ALL SECTORS.

1 GROUNDING SCHEMATIC DIAGRAM
SCALE: N.T.S.

REMOTE RADIO HEAD DIMENSIONS (INCHES)

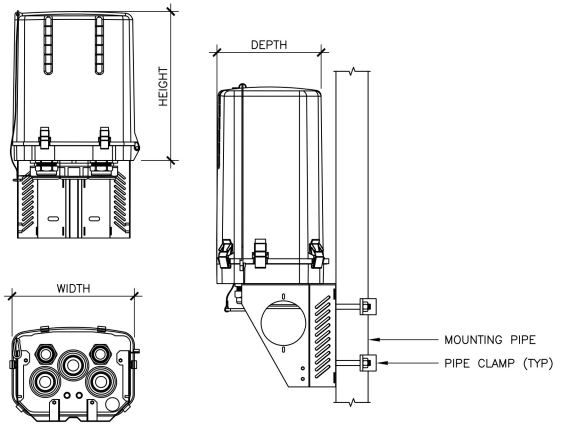
MODEL	HEIGHT	WIDTH	DEPTH	WEIGHT
B2/B66A RRH-BR049	15.0"	15.0"	10.0"	84.4 LBS
B5/B13 RRH-BR04C	15.0"	15.0"	8.1"	70.3 LBS
CBRS RRH-RT4401-48A	12.1"	8.5"	4.1"	18.6 LBS



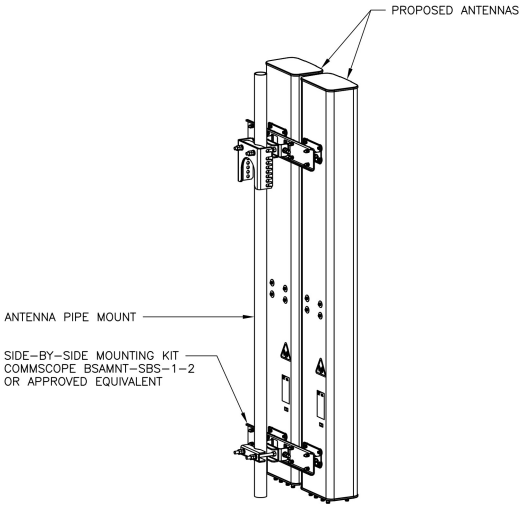
2 RRH SPECIFICATIONS
SCALE: N.T.S.

DC SURGE SUPPRESSION DIMENSIONS (INCHES)

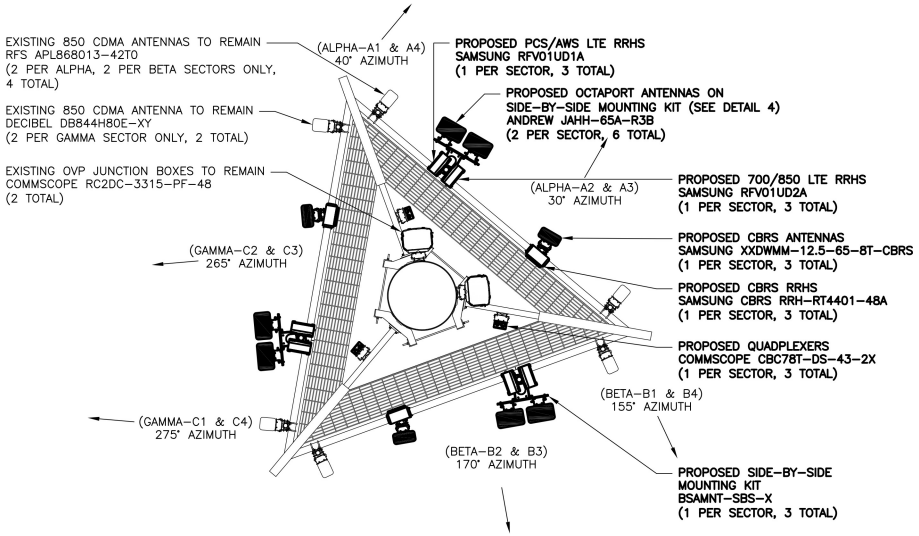
MODEL	HEIGHT	WIDTH	DEPTH	WEIGHT
RC2DC-3315-PF-48	28.93"	15.73"	10.3"	32 LBS



3 RAYCAP SPECIFICATIONS
SCALE: N.T.S.



4 ANTENNA MOUNTING DETAIL
SCALE: N.T.S.



5 PROPOSED ANTENNA ORIENTATION
SCALE: N.T.S.

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400 FRIBERG PARKWAY
WESTBOROUGH, MA 01581
PH: (508) 330-3300

W GREENWICH CT

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GREENWICH, CT 06831
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SHEET NUMBER:	REVISION:
A-2	0

94951_841290_Greenwich North.dwg — Sheet:A-2 — User: fperkins — Oct 23, 2019 — 1:51pm

Exhibit D

Structural Analysis Report

PAUL J. FORD & COMPANY

Date: **December 02, 2019**

Denice Nicholson
Crown Castle
3 Corporate Dr
Clifton Park, NY 12065

Paul J. Ford and Company
250 E. Broad St., Ste 600
Columbus, OH 43215
614-221-6679

Subject:	**Structural Analysis Report**	
Carrier Designation:	***Verizon Wireless* Co-Locate**	
	Carrier Site Number:	NG59564
	Carrier Site Name:	W GREENWICH CT
Crown Castle Designation:	**Crown Castle BU Number:**	841290
	Crown Castle Site Name:	GREENWICH NORTH
	Crown Castle JDE Job Number:	590342
	Crown Castle Work Order Number:	1796229
	Crown Castle Order Number:	504982 Rev. 1
Engineering Firm Designation:	**Paul J. Ford and Company Project Number:**	37519-3700.001.7805
Site Data:	**363 RIVERSVILLE ROAD, GREENWICH, Fairfield County, CT** **Latitude *41° 3' 58.6"*, Longitude *-73° 40' 17.4"*** **160 Foot - Monopole Tower**	

Dear Denice Nicholson,

Paul J. Ford and Company is pleased to submit this **"Structural Analysis Report"** to determine the structural integrity of the above mentioned tower.

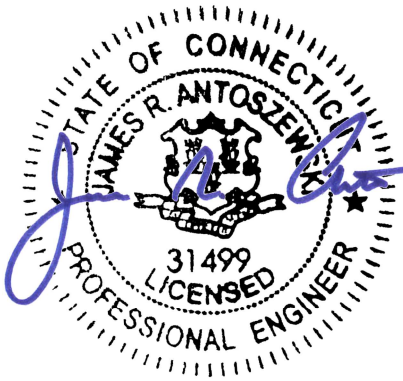
The purpose of the analysis is to determine acceptability of the tower stress level. Based on our analysis we have determined the tower stress level for the structure and foundation, under the following load case, to be:

LC7: Proposed Equipment Configuration **Sufficient Capacity (67.7%)**

This analysis utilizes an ultimate 3-second gust wind speed of 120 mph as required by the 2018 Connecticut State Building Code and Appendix N. Applicable Standard references and design criteria are listed in Section 2 - Analysis Criteria.

Respectfully submitted by:

Christopher Poelking, E.I.
Structural Designer
cpoelking@pauljford.com



12/03/2019

TABLE OF CONTENTS

1) INTRODUCTION

This tower is a 160 ft Monopole tower designed by ENGINEERED ENDEAVORS, INC. from April 2003.

2) ANALYSIS CRITERIA

TIA-222 Revision:	TIA-222-H
Risk Category:	II
Wind Speed:	120 mph
Exposure Category:	B
Topographic Factor:	1
Ice Thickness:	1.5 in
Wind Speed with Ice:	50 mph
Service Wind Speed:	60 mph

Table 1 - Proposed Equipment Configuration

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)
140.0	141.0	3	commscope	CBC78T-DS-43-2X	8	1-5/8
		6	commscope	JAHH-65B-R3B w/ Mount Pipe		
		2	commscope	RC2DC-3315-PF-48		
		2	decibel	DB844H80E-XY w/ Mount Pipe		
		4	rfs celwave	APL868013-42T0 w/ Mount Pipe		
		3	samsung telecommunications	20W CBRS		
		3	samsung telecommunications	CBRS w/ Mount Pipe		
		3	samsung telecommunications	RFV01U-D1A		
		3	samsung telecommunications	RFV01U-D2A		
	140.0	1	tower mounts	Platform Mount [LP 712-1]		
		1	tower mounts	Side Arm Mount [SO 701-3]		

Table 2 - Other Considered Equipment

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)
160.0	163.0	3	ericsson	AIR 32 B2A/B66AA w/ Mount Pipe	11 2	1-5/8 1-3/8
		3	ericsson	ERICSSON AIR 21 B2A B4P w/ Mount Pipe		
		3	ericsson	RADIO 4449 B12/B71		
		3	rfs celwave	APXVAARR24_43-U-NA20 w/ Mount Pipe		
		3	rfs celwave	ATMAA1412D-1A20		
	160.0	1	tower mounts	Platform Mount [LP 712-1]		
		1	tower mounts	Side Arm Mount [SO 701-3]		

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)
153.0	153.0	3	ericsson	RRUS 11	--	--
		3	ericsson	RRUS 32 B2		
		1	tower mounts	Side Arm Mount [SO 102-3]		
149.0	149.0	3	cci antennas	HPA-65R-BUU-H6 w/ Mount Pipe	12 2 4	1-5/8 3/8 3/4
		3	ericsson	RADIO 4426		
		3	ericsson	RRUS 32		
		3	kaelus	DBC0061F1V51-2		
		3	powerwave technologies	7770.00 w/ Mount Pipe		
		12	powerwave technologies	LGP21401		
		3	quintel technology	QS66512-2 w/ Mount Pipe		
		1	raycap	DC6-48-60-18-8C		
		1	raycap	DC6-48-60-18-8F		
		1	tower mounts	Platform Mount [LP 712-1]		
		1	tower mounts	Side Arm Mount [SO 701-3]		
120.0	120.0	3	alcatel lucent	TD-RRH8X20-25	3 4	1/2 1-1/4
		3	rfs celwave	APXVSPP18-C-A20 w/ Mount Pipe		
		3	rfs celwave	APXVTM14-ALU-I20 w/ Mount Pipe		
		1	tower mounts	Platform Mount [LP 712-1]		
		1	tower mounts	Side Arm Mount [SO 701-3]		
119.0	119.0	3	alcatel lucent	1900MHZ RRH	--	--
		3	alcatel lucent	800MHZ RRH		
		1	tower mounts	Side Arm Mount [SO 102-3]		
72.0	73.0	2	gps	GPS_A	--	--
	72.0	1	tower mounts	Side Arm Mount [SO 601-1]		

3) ANALYSIS PROCEDURE

Table 3 - Documents Provided

Document	Remarks	Reference	Source
4-GEOTECHNICAL REPORTS	WEI, 2009-895, 9/4/2009	5121535	CCISITES
4-TOWER FOUNDATION DRAWINGS/DESIGN/SPECS	WEI, 2009-895, 9/4/2009	5121536	CCISITES
4-TOWER MANUFACTURER DRAWINGS	EEI, 5590, 4/5/2003	5164738	CCISITES

3.1) Analysis Method

tnxTower (version 8.0.5.0), a commercially available analysis software package, was used to create a three-dimensional model of the tower and calculate member stresses for various loading cases. Selected output from the analysis is included in Appendix A.

3.2) Assumptions

1) Tower and structures were built in accordance with the manufacturer's specifications.
2) The tower and structures have been maintained in accordance with the manufacturer's specification.
3) The configuration of antennas, transmission cables, mounts and other appurtenances are as specified in Tables 1 and 2 and the referenced drawings.
4) The foundation (structural) capacity of the pad portion of the foundation was unable to be determined due to the lack of existing reinforcing steel information. Therefore, it was assumed that the pad portion of the foundation was properly designed to meet the minimum amount of steel per ACI requirements. The minimum steel values were then used for the analyses of the pad.

This analysis may be affected if any assumptions are not valid or have been made in error. Paul J. Ford and Company should be notified to determine the effect on the structural integrity of the tower.

4) ANALYSIS RESULTS

Table 4 - Section Capacity (Summary)

Section No.	Elevation (ft)	Component Type	Size	Critical Element	P (K)	SF*P_allow (K)	% Capacity	Pass / Fail
L1	160 - 152	Pole	TP30.62x29x0.188	1	-4.82	1112.47	7.4	Pass
L2	152 - 111.29	Pole	TP38.86x30.62x0.25	2	-19.89	1828.41	37.0	Pass
L3	111.29 - 77.42	Pole	TP45.09x37.263x0.313	3	-27.60	2653.22	48.6	Pass
L4	77.42 - 36.46	Pole	TP52.62x43.236x0.438	4	-41.64	4330.74	43.0	Pass
L5	36.46 - 0	Pole	TP59x50.335x0.5	5	-61.39	5702.67	43.9	Pass
							Summary	
						Pole (L3)	48.6	Pass
						RATING =	48.6	Pass

Table 5 - Tower Component Stresses vs. Capacity – LC7

Notes	Component	Elevation (ft)	% Capacity	Pass / Fail
1	Flange Bolts	152	9.4	Pass
1	Flange Plate	152	8.0	Pass
1	Anchor Rods	0	42.0	Pass
1	Base Plate	0	47.4	Pass
1	Base Foundation	0	67.7	Pass
1	Base Foundation Soil Interaction	0	43.2	Pass

Structure Rating (max from all components) =	67.7%

Notes:

- All structural ratings are per TIA-222-H Section 15.5

1) See additional documentation in "Appendix C – Additional Calculations" for calculations supporting the % capacity consumed.

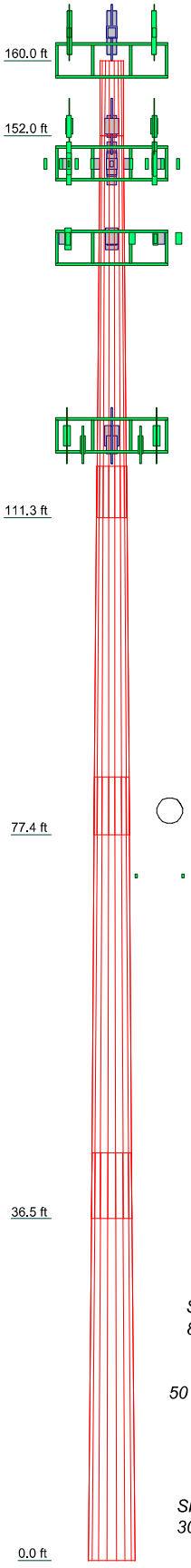
4.1) Recommendations

The monopole and its foundation have sufficient capacity to carry the proposed load configuration. No modifications are required at this time.

APPENDIX A

TNXTOWER OUTPUT

Section	Length (ft)	Number of Sides	Thickness (in)	Socket Length (ft)	Top Dia (in)	Bot Dia (in)	Grade	Weight (K)
1	8.000	18	0.188	5.420	29.000	30.620	A572-65	0.5
2	40.710	18	0.250		30.620	38.860		3.8
3	39.290	18	0.313	6.170	37.263	45.090		5.4
4	47.130	18	0.438	7.080	43.236	52.620		10.6
5	43.540	18	0.500		50.335	59.000		12.7



ALL REACTIONS ARE FACTORED

AXIAL 96 K

SHEAR 8 K

MOMENT 958 kip-ft

TORQUE 0 kip-ft
50 mph WIND - 1.500 in ICE

AXIAL 61 K

SHEAR 30 K

MOMENT 3518 kip-ft

TORQUE 1 kip-ft
REACTIONS - 120 mph WIND

MATERIAL STRENGTH

GRADE	Fy	Fu	GRADE	Fy	Fu
A572-65	65 ksi	80 ksi			

TOWER DESIGN NOTES

1. Tower is located in Fairfield County, Connecticut.
2. Tower designed for Exposure B to the TIA-222-H Standard.
3. Tower designed for a 120 mph basic wind in accordance with the TIA-222-H Standard.
4. Tower is also designed for a 50 mph basic wind with 1.50 in ice. Ice is considered to increase in thickness with height.
5. Deflections are based upon a 60 mph wind.
6. Tower Risk Category II.
7. Topographic Category 1 with Crest Height of 0.000 ft
8. TIA-222-H Annex S
9. TOWER RATING: 48.6%

PJFLogo

Paul J. Ford and Company
250 E. Broad St., Ste 600
Columbus, OH 43215
Phone: 614-221-6679
FAX:

Job: ***BU# 841290 / Greenwich North***		
Project: ***PJF# 37519-3700.001.7805***		
Client: Crown Castle	Drawn by: Chris Poelking	App'd:
Code: TIA-222-H	Date: 12/03/19	Scale: NTS
Path: G:\TOWER\375_Crown_Castle\2019\37519-3700_841290_GREENWICH NORTH\37519-3700.001.7805_SA_1796229\37519-3700.001.7805.eri		Dwg No. E-1

Tower Input Data

The tower is a monopole.
This tower is designed using the TIA-222-H standard.
The following design criteria apply:

1) Tower is located in Fairfield County, Connecticut.
2) Tower base elevation above sea level: 223.310 ft.
3) Basic wind speed of 120 mph.
4) Risk Category II.
5) Exposure Category B.
6) Simplified Topographic Factor Procedure for wind speed-up calculations is used.
7) Topographic Category: 1.
8) Crest Height: 0.000 ft.
9) Nominal ice thickness of 1.500 in.
10) Ice thickness is considered to increase with height.
11) Ice density of 56.00 pcf.
12) A wind speed of 50 mph is used in combination with ice.
13) Temperature drop of 50.00 °F.
14) Deflections calculated using a wind speed of 60 mph.
15) TIA-222-H Annex S.
16) A non-linear (P-delta) analysis was used.
17) Pressures are calculated at each section.
18) Stress ratio used in pole design is 1.05.
19) Tower analysis based on target reliabilities in accordance with Annex S.
20) Load Modification Factors used: $K_{es}(F_w) = 0.95$, $K_{es}(t_i) = 0.85$.
21) Local bending stresses due to climbing loads, feed line supports, and appurtenance mounts are not considered.

Options

	Consider Moments - Legs		Distribute Leg Loads As Uniform		Use ASCE 10 X-Brace Ly Rules
	Consider Moments - Horizontals		Assume Legs Pinned		Calculate Redundant Bracing Forces
	Consider Moments - Diagonals	√	Assume Rigid Index Plate		Ignore Redundant Members in FEA
	Use Moment Magnification	√	Use Clear Spans For Wind Area		SR Leg Bolts Resist Compression
	Use Code Stress Ratios		Use Clear Spans For KL/r		All Leg Panels Have Same Allowable
√	Use Code Safety Factors - Guys		Retension Guys To Initial Tension		Offset Girt At Foundation
	Escalate Ice	√	Bypass Mast Stability Checks	√	Consider Feed Line Torque
	Always Use Max Kz	√	Use Azimuth Dish Coefficients		Include Angle Block Shear Check
	Use Special Wind Profile	√	Project Wind Area of Appurt.		Use TIA-222-H Bracing Resist. Exemption
	Include Bolts In Member Capacity		Autocalc Torque Arm Areas		Use TIA-222-H Tension Splice Exemption
	Leg Bolts Are At Top Of Section		Add IBC .6D+W Combination		Poles
	Secondary Horizontal Braces Leg		Sort Capacity Reports By Component	√	Include Shear-Torsion Interaction
	Use Diamond Inner Bracing (4 Sided)		Triangulate Diamond Inner Bracing		Always Use Sub-Critical Flow
	SR Members Have Cut Ends		Treat Feed Line Bundles As Cylinder		Use Top Mounted Sockets
	SR Members Are Concentric		Ignore KL/ry For 60 Deg. Angle Legs		Pole Without Linear Attachments
					Pole With Shroud Or No Appurtenances
					Outside and Inside Corner Radii Are Known

Tapered Pole Section Geometry

Section	*Elevation ft*	*Section Length ft*	*Splice Length ft*	*Number of Sides*	*Top Diameter in*	*Bottom Diameter in*	*Wall Thickness in*	*Bend Radius in*	*Pole Grade*
L1	160.000-152.000	8.000	0.00	18	29.000	30.620	0.188	0.750	A572-65 (65 ksi)
L2	152.000-111.290	40.710	5.42	18	30.620	38.860	0.250	1.000	A572-65 (65 ksi)
L3	111.290-77.420	39.290	6.17	18	37.263	45.090	0.313	1.250	A572-65 (65 ksi)

Section	Elevation ft	Section Length ft	Splice Length ft	Number of Sides	Top Diameter in	Bottom Diameter in	Wall Thickness in	Bend Radius in	Pole Grade
L4	77.420-36.460	47.130	7.08	18	43.236	52.620	0.438	1.750	A572-65 (65 ksi)
L5	36.460-0.000	43.540		18	50.335	59.000	0.500	2.000	A572-65 (65 ksi)

Tapered Pole Properties

Section	Tip Dia. in	Area in^2	I in^4	r in	C in	I/C in^3	J in^4	It/Q in^2	w in	w/t
L1	29.418	17.147	1798.409	10.228	14.732	122.075	3599.184	8.575	4.774	25.461
	31.063	18.111	2119.135	10.804	15.555	136.235	4241.058	9.057	5.059	26.982
L2	31.054	24.099	2808.140	10.781	15.555	180.530	5619.975	12.052	4.949	19.796
	39.421	30.637	5770.106	13.707	19.741	292.292	11547.804	15.321	6.399	25.597
L3	38.886	36.650	6321.988	13.117	18.930	333.974	12652.295	18.329	6.008	19.226
	45.737	44.414	11250.554	15.896	22.906	491.168	22515.912	22.211	7.386	23.635
L4	45.083	59.431	13753.203	15.193	21.964	626.175	27524.502	29.721	6.840	15.633
	53.364	72.462	24928.553	18.525	26.731	932.572	49889.908	36.238	8.491	19.408
L5	52.465	79.089	24815.629	17.692	25.570	970.485	49663.912	39.552	7.979	15.958
	59.833	92.840	40140.426	20.767	29.972	1339.264	80333.669	46.429	9.504	19.008

Tower Elevation ft	Gusset Area (per face) ft^2	Gusset Thickness in	Gusset Grade	Adjust. Factor A_f	Adjust. Factor A_r	Weight Mult.	Double Angle Stitch Bolt Spacing Diagonals in	Double Angle Stitch Bolt Spacing Horizontals in	Double Angle Stitch Bolt Spacing Redundants in
L1 160.000-152.000				1	1	1			
L2 152.000-111.290				1	1	1			
L3 111.290-77.420				1	1	1			
L4 77.420-36.460				1	1	1			
L5 36.460-0.000				1	1	1			

Feed Line/Linear Appurtenances - Entered As Area

Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Total Number		C_AA_A ft^2/ft	Weight plf
LDF7-50A(1-5/8)	C	No	No	Inside Pole	160.000 - 0.000	10	No Ice	0.000	0.82
							1/2" Ice	0.000	0.82
							1" Ice	0.000	0.82
							2" Ice	0.000	0.82
MLE HYBRID 9POWER/18FIBER RL 2(1-5/8)	C	No	No	Inside Pole	160.000 - 0.000	1	No Ice	0.000	1.07
							1/2" Ice	0.000	1.07
							1" Ice	0.000	1.07
							2" Ice	0.000	1.07
HCS 6X12 6AWG(1-3/8)	C	No	No	Inside Pole	160.000 - 0.000	2	No Ice	0.000	1.70
							1/2" Ice	0.000	1.70
							1" Ice	0.000	1.70
							2" Ice	0.000	1.70
**********									
LDF7-50A(1-5/8)	C	No	No	Inside Pole	149.000 - 0.000	12	No Ice	0.000	0.82
							1/2" Ice	0.000	0.82
							1" Ice	0.000	0.82
							2" Ice	0.000	0.82
FB-L98B-034-XXX(3/8)	C	No	No	Inside Pole	149.000 - 0.000	2	No Ice	0.000	0.06
							1/2" Ice	0.000	0.06
							1" Ice	0.000	0.06
							2" Ice	0.000	0.06
WR-VG86ST-BRD(3/4)	C	No	No	Inside Pole	149.000 - 0.000	4	No Ice	0.000	0.58
							1/2" Ice	0.000	0.58

Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Total Number		C_AA_A ft^2/ft	Weight plf
							1" Ice	0.000	0.58
							2" Ice	0.000	0.58
**********									
LDF7-50A(1-5/8)	C	No	No	Inside Pole	140.000 - 0.000	6	No Ice	0.000	0.82
							1/2" Ice	0.000	0.82
							1" Ice	0.000	0.82
							2" Ice	0.000	0.82
HB158-1-08U8-S8J18(1-5/8)	C	No	No	Inside Pole	140.000 - 0.000	2	No Ice	0.000	1.30
							1/2" Ice	0.000	1.30
							1" Ice	0.000	1.30
							2" Ice	0.000	1.30
**********									
LDF4-50A(1/2)	C	No	No	Inside Pole	120.000 - 0.000	3	No Ice	0.000	0.15
							1/2" Ice	0.000	0.15
							1" Ice	0.000	0.15
							2" Ice	0.000	0.15
HB114-1-05U3-S3J(1-1/4)	C	No	No	Inside Pole	120.000 - 0.000	3	No Ice	0.000	0.90
							1/2" Ice	0.000	0.90
							1" Ice	0.000	0.90
							2" Ice	0.000	0.90
HB114-21U3M12-XXXF(1-1/4)	C	No	No	Inside Pole	120.000 - 0.000	1	No Ice	0.000	1.22
							1/2" Ice	0.000	1.22
							1" Ice	0.000	1.22
							2" Ice	0.000	1.22

Feed Line/Linear Appurtenances Section Areas

Tower Section	Tower Elevation ft	Face	A_R ft^2	A_F ft^2	C_AA_A In Face ft^2	C_AA_A Out Face ft^2	Weight K
L1	160.000-152.000	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	0.000	0.000	0.10
L2	152.000-111.290	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	0.000	0.000	1.23
L3	111.290-77.420	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	0.000	0.000	1.25
L4	77.420-36.460	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	0.000	0.000	1.51
L5	36.460-0.000	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	0.000	0.000	1.34

Feed Line/Linear Appurtenances Section Areas - With Ice

Tower Section	Tower Elevation ft	Face or Leg	Ice Thickness in	A_R ft^2	A_F ft^2	C_AA_A In Face ft^2	C_AA_A Out Face ft^2	Weight K
L1	160.000-152.000	A	1.489	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	0.000	0.000	0.10
L2	152.000-111.290	A	1.464	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	0.000	0.000	1.23
L3	111.290-77.420	A	1.416	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	0.000	0.000	1.25
L4	77.420-36.460	A	1.346	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	0.000	0.000	1.51
L5	36.460-0.000	A	1.199	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	0.000	0.000	0.00

Tower Section	Tower Elevation ft	Face or Leg	Ice Thickness in	A_R ft^2	A_F ft^2	C_AA_A In Face ft^2	C_AA_A Out Face ft^2	Weight K
		C		0.000	0.000	0.000	0.000	1.34

Feed Line Center of Pressure

Section	Elevation ft	CP_X in	CP_Z in	CP_X Ice in	CP_Z Ice in
L1	160.000-152.000	0.000	0.000	0.000	0.000
L2	152.000-111.290	0.000	0.000	0.000	0.000
L3	111.290-77.420	0.000	0.000	0.000	0.000
L4	77.420-36.460	0.000	0.000	0.000	0.000
L5	36.460-0.000	0.000	0.000	0.000	0.000

Note: For pole sections, center of pressure calculations do not consider feed line shielding.

Shielding Factor Ka

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice

Discrete Tower Loads

Description	Face or Leg	Offset Type	Offsets: Horz Lateral ft / Vert ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
ERICSSON AIR 21 B2A B4P w/ Mount Pipe	A	From Leg	4.000 0.00 3.00	0.00	160.000	No Ice 1/2" Ice 1" Ice 2" Ice	6.329 6.775 7.214 8.117	5.642 6.426 7.131 8.591	0.11 0.17 0.23 0.38
ERICSSON AIR 21 B2A B4P w/ Mount Pipe	B	From Leg	4.000 0.00 3.00	0.00	160.000	No Ice 1/2" Ice 1" Ice 2" Ice	6.329 6.775 7.214 8.117	5.642 6.426 7.131 8.591	0.11 0.17 0.23 0.38
ERICSSON AIR 21 B2A B4P w/ Mount Pipe	C	From Leg	4.000 0.00 3.00	0.00	160.000	No Ice 1/2" Ice 1" Ice 2" Ice	6.329 6.775 7.214 8.117	5.642 6.426 7.131 8.591	0.11 0.17 0.23 0.38
ATMAA1412D-1A20	A	From Leg	4.000 0.00 3.00	0.00	160.000	No Ice 1/2" Ice 1" Ice 2" Ice	1.000 1.126 1.259 1.548	0.407 0.497 0.593 0.815	0.01 0.02 0.03 0.06
ATMAA1412D-1A20	B	From Leg	4.000 0.00 3.00	0.00	160.000	No Ice 1/2" Ice 1" Ice 2" Ice	1.000 1.126 1.259 1.548	0.407 0.497 0.593 0.815	0.01 0.02 0.03 0.06
ATMAA1412D-1A20	C	From Leg	4.000 0.00 3.00	0.00	160.000	No Ice 1/2" Ice 1" Ice 2" Ice	1.000 1.126 1.259 1.548	0.407 0.497 0.593 0.815	0.01 0.02 0.03 0.06
AIR 32 B2A/B66AA w/ Mount Pipe	A	From Leg	4.000 0.00 3.00	0.00	160.000	No Ice 1/2" Ice 1" Ice	6.747 7.202 7.648 8.565	6.070 6.867 7.583 9.063	0.15 0.21 0.28 0.44

Description	Face or Leg	Offset Type	Offsets: Horz Lateral ft / Vert ft / ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
						2" Ice			
AIR 32 B2A/B66AA w/ Mount Pipe	B	From Leg	4.000 0.00 3.00	0.00	160.000	No Ice 1/2" Ice 1" Ice 2" Ice	6.747 7.202 7.648 8.565	6.070 6.867 7.583 9.063	0.15 0.21 0.28 0.44
AIR 32 B2A/B66AA w/ Mount Pipe	C	From Leg	4.000 0.00 3.00	0.00	160.000	No Ice 1/2" Ice 1" Ice 2" Ice	6.747 7.202 7.648 8.565	6.070 6.867 7.583 9.063	0.15 0.21 0.28 0.44
APXVAARR24_43-U-NA20 w/ Mount Pipe	A	From Leg	4.000 0.00 3.00	0.00	160.000	No Ice 1/2" Ice 1" Ice 2" Ice	14.690 15.460 16.230 17.820	6.870 7.550 8.250 9.670	0.19 0.31 0.46 0.79
APXVAARR24_43-U-NA20 w/ Mount Pipe	B	From Leg	4.000 0.00 3.00	0.00	160.000	No Ice 1/2" Ice 1" Ice 2" Ice	14.690 15.460 16.230 17.820	6.870 7.550 8.250 9.670	0.19 0.31 0.46 0.79
APXVAARR24_43-U-NA20 w/ Mount Pipe	C	From Leg	4.000 0.00 3.00	0.00	160.000	No Ice 1/2" Ice 1" Ice 2" Ice	14.690 15.460 16.230 17.820	6.870 7.550 8.250 9.670	0.19 0.31 0.46 0.79
RADIO 4449 B12/B71	A	From Leg	4.000 0.00 3.00	0.00	160.000	No Ice 1/2" Ice 1" Ice 2" Ice	1.650 1.810 1.978 2.336	1.163 1.301 1.447 1.762	0.07 0.09 0.11 0.16
RADIO 4449 B12/B71	B	From Leg	4.000 0.00 3.00	0.00	160.000	No Ice 1/2" Ice 1" Ice 2" Ice	1.650 1.810 1.978 2.336	1.163 1.301 1.447 1.762	0.07 0.09 0.11 0.16
RADIO 4449 B12/B71	C	From Leg	4.000 0.00 3.00	0.00	160.000	No Ice 1/2" Ice 1" Ice 2" Ice	1.650 1.810 1.978 2.336	1.163 1.301 1.447 1.762	0.07 0.09 0.11 0.16
Side Arm Mount [SO 701-3]	C	None		0.00	160.000	No Ice 1/2" Ice 1" Ice 2" Ice	3.020 4.180 5.330 7.630	3.020 4.180 5.330 7.630	0.20 0.24 0.28 0.36
Platform Mount [LP 712-1]	C	None		0.00	160.000	No Ice 1/2" Ice 1" Ice 2" Ice	24.560 27.920 31.270 37.980	24.560 27.920 31.270 37.980	1.34 1.91 2.55 3.97
2.375" OD x 6' Mount Pipe	A	From Leg	4.000 0.00 3.00	0.00	160.000	No Ice 1/2" Ice 1" Ice 2" Ice	1.425 1.925 2.294 3.060	1.425 1.925 2.294 3.060	0.03 0.04 0.05 0.09
2.375" OD x 6' Mount Pipe	B	From Leg	4.000 0.00 3.00	0.00	160.000	No Ice 1/2" Ice 1" Ice 2" Ice	1.425 1.925 2.294 3.060	1.425 1.925 2.294 3.060	0.03 0.04 0.05 0.09
2.375" OD x 6' Mount Pipe	C	From Leg	4.000 0.00 3.00	0.00	160.000	No Ice 1/2" Ice 1" Ice	1.425 1.925 2.294 3.060	1.425 1.925 2.294 3.060	0.03 0.04 0.05 0.09

Description	Face or Leg	Offset Type	Offsets: Horz Lateral ft / Vert ft / ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
						2" Ice			
**********									
RRUS 11	A	From Leg	4.000 0.00 0.00	0.00	153.000	No Ice 1/2" Ice 1" Ice 2" Ice	2.791 2.998 3.213 3.666	1.192 1.340 1.496 1.839	0.05 0.07 0.10 0.15
RRUS 11	B	From Leg	4.000 0.00 0.00	0.00	153.000	No Ice 1/2" Ice 1" Ice 2" Ice	2.791 2.998 3.213 3.666	1.192 1.340 1.496 1.839	0.05 0.07 0.10 0.15
RRUS 11	C	From Leg	4.000 0.00 0.00	0.00	153.000	No Ice 1/2" Ice 1" Ice 2" Ice	2.791 2.998 3.213 3.666	1.192 1.340 1.496 1.839	0.05 0.07 0.10 0.15
RRUS 32 B2	A	From Leg	4.000 0.00 0.00	0.00	153.000	No Ice 1/2" Ice 1" Ice 2" Ice	2.743 2.965 3.194 3.675	1.668 1.855 2.049 2.458	0.05 0.07 0.10 0.16
RRUS 32 B2	B	From Leg	4.000 0.00 0.00	0.00	153.000	No Ice 1/2" Ice 1" Ice 2" Ice	2.743 2.965 3.194 3.675	1.668 1.855 2.049 2.458	0.05 0.07 0.10 0.16
RRUS 32 B2	C	From Leg	4.000 0.00 0.00	0.00	153.000	No Ice 1/2" Ice 1" Ice 2" Ice	2.743 2.965 3.194 3.675	1.668 1.855 2.049 2.458	0.05 0.07 0.10 0.16
Side Arm Mount [SO 102-3]	C	None		0.00	153.000	No Ice 1/2" Ice 1" Ice 2" Ice	3.600 4.180 4.750 5.900	3.600 4.180 4.750 5.900	0.07 0.11 0.14 0.20
(2) 2.375" OD x 6' Mount Pipe	A	From Leg	4.000 0.00 0.00	0.00	153.000	No Ice 1/2" Ice 1" Ice 2" Ice	1.425 1.925 2.294 3.060	1.425 1.925 2.294 3.060	0.03 0.04 0.05 0.09
(2) 2.375" OD x 6' Mount Pipe	B	From Leg	4.000 0.00 0.00	0.00	153.000	No Ice 1/2" Ice 1" Ice 2" Ice	1.425 1.925 2.294 3.060	1.425 1.925 2.294 3.060	0.03 0.04 0.05 0.09
(2) 2.375" OD x 6' Mount Pipe	C	From Leg	4.000 0.00 0.00	0.00	153.000	No Ice 1/2" Ice 1" Ice 2" Ice	1.425 1.925 2.294 3.060	1.425 1.925 2.294 3.060	0.03 0.04 0.05 0.09
**********									
HPA-65R-BUU-H6 w/ Mount Pipe	A	From Leg	4.000 0.00 0.00	0.00	149.000	No Ice 1/2" Ice 1" Ice 2" Ice	9.220 9.980 10.760 12.360	6.250 6.960 7.700 9.220	0.07 0.14 0.22 0.42
HPA-65R-BUU-H6 w/ Mount Pipe	B	From Leg	4.000 0.00 0.00	0.00	149.000	No Ice 1/2" Ice 1" Ice 2" Ice	9.220 9.980 10.760 12.360	6.250 6.960 7.700 9.220	0.07 0.14 0.22 0.42
HPA-65R-BUU-H6 w/ Mount Pipe	C	From Leg	4.000 0.00	0.00	149.000	No Ice 1/2"	9.220 9.980	6.250 6.960	0.07 0.14

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
			0.00			Ice	10.760	7.700	0.22
						1" Ice	12.360	9.220	0.42
						2" Ice			
7770.00 w/ Mount Pipe	A	From Leg	4.000	0.00	149.000	No Ice	5.746	4.254	0.06
			0.00			1/2"	6.179	5.014	0.10
			0.00			Ice	6.607	5.711	0.16
						1" Ice	7.488	7.155	0.29
						2" Ice			
7770.00 w/ Mount Pipe	B	From Leg	4.000	0.00	149.000	No Ice	5.746	4.254	0.06
			0.00			1/2"	6.179	5.014	0.10
			0.00			Ice	6.607	5.711	0.16
						1" Ice	7.488	7.155	0.29
						2" Ice			
7770.00 w/ Mount Pipe	C	From Leg	4.000	0.00	149.000	No Ice	5.746	4.254	0.06
			0.00			1/2"	6.179	5.014	0.10
			0.00			Ice	6.607	5.711	0.16
						1" Ice	7.488	7.155	0.29
						2" Ice			
QS66512-2 w/ Mount Pipe	A	From Leg	4.000	0.00	149.000	No Ice	4.040	4.180	0.14
			0.00			1/2"	4.420	4.570	0.21
			0.00			Ice	4.820	4.970	0.29
						1" Ice	5.630	5.790	0.48
						2" Ice			
QS66512-2 w/ Mount Pipe	B	From Leg	4.000	0.00	149.000	No Ice	4.040	4.180	0.14
			0.00			1/2"	4.420	4.570	0.21
			0.00			Ice	4.820	4.970	0.29
						1" Ice	5.630	5.790	0.48
						2" Ice			
QS66512-2 w/ Mount Pipe	C	From Leg	4.000	0.00	149.000	No Ice	4.040	4.180	0.14
			0.00			1/2"	4.420	4.570	0.21
			0.00			Ice	4.820	4.970	0.29
						1" Ice	5.630	5.790	0.48
						2" Ice			
RRUS 32	A	From Leg	4.000	0.00	149.000	No Ice	2.857	1.777	0.06
			0.00			1/2"	3.083	1.968	0.08
			0.00			Ice	3.316	2.166	0.10
						1" Ice	3.805	2.583	0.16
						2" Ice			
RRUS 32	B	From Leg	4.000	0.00	149.000	No Ice	2.857	1.777	0.06
			0.00			1/2"	3.083	1.968	0.08
			0.00			Ice	3.316	2.166	0.10
						1" Ice	3.805	2.583	0.16
						2" Ice			
RRUS 32	C	From Leg	4.000	0.00	149.000	No Ice	2.857	1.777	0.06
			0.00			1/2"	3.083	1.968	0.08
			0.00			Ice	3.316	2.166	0.10
						1" Ice	3.805	2.583	0.16
						2" Ice			
RADIO 4426	A	From Leg	4.000	0.00	149.000	No Ice	1.644	0.725	0.05
			0.00			1/2"	1.804	0.842	0.06
			0.00			Ice	1.972	0.969	0.08
						1" Ice	2.329	1.244	0.12
						2" Ice			
RADIO 4426	B	From Leg	4.000	0.00	149.000	No Ice	1.644	0.725	0.05
			0.00			1/2"	1.804	0.842	0.06
			0.00			Ice	1.972	0.969	0.08
						1" Ice	2.329	1.244	0.12
						2" Ice			
RADIO 4426	C	From Leg	4.000	0.00	149.000	No Ice	1.644	0.725	0.05
			0.00			1/2"	1.804	0.842	0.06
			0.00			Ice	1.972	0.969	0.08
						1" Ice	2.329	1.244	0.12
						2" Ice			
DBC0061F1V51-2	A	From Leg	4.000	0.00	149.000	No Ice	0.213	0.413	0.01
			0.00			1/2"	0.279	0.496	0.02

Description	Face or Leg	Offset Type	Offsets: Horz Lateral ft	Vert ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
			0.00				Ice	0.353	0.586	0.02
							1" Ice	0.521	0.788	0.04
							2" Ice			
DBC0061F1V51-2	B	From Leg	4.000		0.00	149.000	No Ice	0.213	0.413	0.01
			0.00				1/2"	0.279	0.496	0.02
			0.00				Ice	0.353	0.586	0.02
							1" Ice	0.521	0.788	0.04
							2" Ice			
DBC0061F1V51-2	C	From Leg	4.000		0.00	149.000	No Ice	0.213	0.413	0.01
			0.00				1/2"	0.279	0.496	0.02
			0.00				Ice	0.353	0.586	0.02
							1" Ice	0.521	0.788	0.04
							2" Ice			
(4) LGP21401	A	From Leg	4.000		0.00	149.000	No Ice	1.104	0.347	0.01
			0.00				1/2"	1.239	0.442	0.02
			0.00				Ice	1.381	0.544	0.03
							1" Ice	1.688	0.770	0.05
							2" Ice			
(4) LGP21401	B	From Leg	4.000		0.00	149.000	No Ice	1.104	0.347	0.01
			0.00				1/2"	1.239	0.442	0.02
			0.00				Ice	1.381	0.544	0.03
							1" Ice	1.688	0.770	0.05
							2" Ice			
(4) LGP21401	C	From Leg	4.000		0.00	149.000	No Ice	1.104	0.347	0.01
			0.00				1/2"	1.239	0.442	0.02
			0.00				Ice	1.381	0.544	0.03
							1" Ice	1.688	0.770	0.05
							2" Ice			
DC6-48-60-18-8F	A	From Leg	4.000		0.00	149.000	No Ice	1.212	1.212	0.03
			0.00				1/2"	1.892	1.892	0.05
			0.00				Ice	2.105	2.105	0.08
							1" Ice	2.570	2.570	0.14
							2" Ice			
DC6-48-60-18-8C	B	From Leg	4.000		0.00	149.000	No Ice	2.737	2.737	0.03
			0.00				1/2"	2.963	2.963	0.05
			0.00				Ice	3.196	3.196	0.08
							1" Ice	3.684	3.684	0.15
							2" Ice			
Side Arm Mount [SO 701-3]	C	None			0.00	149.000	No Ice	3.020	3.020	0.20
							1/2"	4.180	4.180	0.24
							Ice	5.330	5.330	0.28
							1" Ice	7.630	7.630	0.36
							2" Ice			
Platform Mount [LP 712-1]	C	None			0.00	149.000	No Ice	24.560	24.560	1.34
							1/2"	27.920	27.920	1.91
							Ice	31.270	31.270	2.55
							1" Ice	37.980	37.980	3.97
							2" Ice			
**********										
(2) APL868013-42T0 w/ Mount Pipe	A	From Leg	4.000		0.00	140.000	No Ice	2.630	4.130	0.03
			0.00				1/2"	3.070	4.600	0.06
			1.00				Ice	3.530	5.090	0.11
							1" Ice	4.490	6.110	0.21
							2" Ice			
(2) APL868013-42T0 w/ Mount Pipe	B	From Leg	4.000		0.00	140.000	No Ice	2.630	4.130	0.03
			0.00				1/2"	3.070	4.600	0.06
			1.00				Ice	3.530	5.090	0.11
							1" Ice	4.490	6.110	0.21
							2" Ice			
(2) DB844H80E-XY w/ Mount Pipe	C	From Leg	4.000		0.00	140.000	No Ice	2.240	3.340	0.04
			0.00				1/2"	2.610	3.730	0.08
			1.00				Ice	2.990	4.130	0.12
							1" Ice	3.780	4.970	0.23
							2" Ice			
RC2DC-3315-PF-48	A	From Leg	4.000		0.00	140.000	No Ice	3.792	2.512	0.03

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
			0.00			1/2"	4.044	2.725	0.06
			1.00			Ice	4.303	2.945	0.10
						1" Ice	4.844	3.414	0.18
						2" Ice			
RC2DC-3315-PF-48	C	From Leg	4.000	0.00	140.000	No Ice	3.792	2.512	0.03
			0.00			1/2"	4.044	2.725	0.06
			1.00			Ice	4.303	2.945	0.10
						1" Ice	4.844	3.414	0.18
						2" Ice			
(2) JAHH-65B-R3B w/ Mount Pipe	A	From Leg	4.000	0.00	140.000	No Ice	5.500	4.380	0.10
			0.00			1/2"	5.970	4.840	0.17
			1.00			Ice	6.450	5.300	0.25
						1" Ice	7.440	6.260	0.46
						2" Ice			
(2) JAHH-65B-R3B w/ Mount Pipe	B	From Leg	4.000	0.00	140.000	No Ice	5.500	4.380	0.10
			0.00			1/2"	5.970	4.840	0.17
			1.00			Ice	6.450	5.300	0.25
						1" Ice	7.440	6.260	0.46
						2" Ice			
(2) JAHH-65B-R3B w/ Mount Pipe	C	From Leg	4.000	0.00	140.000	No Ice	5.500	4.380	0.10
			0.00			1/2"	5.970	4.840	0.17
			1.00			Ice	6.450	5.300	0.25
						1" Ice	7.440	6.260	0.46
						2" Ice			
CBRS w/ Mount Pipe	A	From Leg	4.000	0.00	140.000	No Ice	1.714	1.168	0.03
			0.00			1/2"	1.934	1.437	0.05
			1.00			Ice	2.166	1.723	0.07
						1" Ice	2.664	2.351	0.13
						2" Ice			
CBRS w/ Mount Pipe	B	From Leg	4.000	0.00	140.000	No Ice	1.714	1.168	0.03
			0.00			1/2"	1.934	1.437	0.05
			1.00			Ice	2.166	1.723	0.07
						1" Ice	2.664	2.351	0.13
						2" Ice			
CBRS w/ Mount Pipe	C	From Leg	4.000	0.00	140.000	No Ice	1.714	1.168	0.03
			0.00			1/2"	1.934	1.437	0.05
			1.00			Ice	2.166	1.723	0.07
						1" Ice	2.664	2.351	0.13
						2" Ice			
(3) RFV01U-D1A	A	From Leg	4.000	0.00	140.000	No Ice	1.875	1.250	0.08
			0.00			1/2"	2.045	1.393	0.10
			1.00			Ice	2.223	1.543	0.12
						1" Ice	2.601	1.865	0.18
						2" Ice			
RFV01U-D2A	A	From Leg	4.000	0.00	140.000	No Ice	1.875	1.013	0.07
			0.00			1/2"	2.045	1.145	0.09
			1.00			Ice	2.223	1.284	0.11
						1" Ice	2.601	1.585	0.15
						2" Ice			
(3) CBC78T-DS-43-2X	B	From Leg	4.000	0.00	140.000	No Ice	0.368	0.512	0.02
			0.00			1/2"	0.446	0.605	0.03
			1.00			Ice	0.531	0.705	0.04
						1" Ice	0.723	0.927	0.06
						2" Ice			
(3) 20W CBRS	B	From Leg	4.000	0.00	140.000	No Ice	0.857	0.420	0.02
			0.00			1/2"	0.975	0.510	0.03
			1.00			Ice	1.101	0.608	0.03
						1" Ice	1.374	0.833	0.06
						2" Ice			
(2) RFV01U-D2A	B	From Leg	4.000	0.00	140.000	No Ice	1.875	1.013	0.07
			0.00			1/2"	2.045	1.145	0.09
			1.00			Ice	2.223	1.284	0.11
						1" Ice	2.601	1.585	0.15
						2" Ice			
Side Arm Mount [SO 701-	C	None		0.00	140.000	No Ice	3.020	3.020	0.20

Description	Face or Leg	Offset Type	Offsets: Horz Lateral ft / Vert ft / ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
3]						1/2" Ice	4.180	4.180	0.24
						1" Ice	5.330	5.330	0.28
						2" Ice	7.630	7.630	0.36
Platform Mount [LP 712-1]	C	None		0.00	140.000	No Ice	24.560	24.560	1.34
						1/2" Ice	27.920	27.920	1.91
						1" Ice	31.270	31.270	2.55
						2" Ice	37.980	37.980	3.97
**********									
APXVTM14-ALU-I20 w/ Mount Pipe	A	From Leg	4.000 0.00 0.00	0.00	120.000	No Ice	4.090	2.860	0.08
						1/2" Ice	4.480	3.230	0.13
						1" Ice	4.880	3.610	0.19
						2" Ice	5.710	4.400	0.33
APXVTM14-ALU-I20 w/ Mount Pipe	B	From Leg	4.000 0.00 0.00	0.00	120.000	No Ice	4.090	2.860	0.08
						1/2" Ice	4.480	3.230	0.13
						1" Ice	4.880	3.610	0.19
						2" Ice	5.710	4.400	0.33
APXVTM14-ALU-I20 w/ Mount Pipe	C	From Leg	4.000 0.00 0.00	0.00	120.000	No Ice	4.090	2.860	0.08
						1/2" Ice	4.480	3.230	0.13
						1" Ice	4.880	3.610	0.19
						2" Ice	5.710	4.400	0.33
APXVSPP18-C-A20 w/ Mount Pipe	A	From Leg	4.000 0.00 0.00	0.00	120.000	No Ice	4.600	4.010	0.10
						1/2" Ice	5.050	4.450	0.16
						1" Ice	5.500	4.890	0.23
						2" Ice	6.440	5.820	0.42
APXVSPP18-C-A20 w/ Mount Pipe	B	From Leg	4.000 0.00 0.00	0.00	120.000	No Ice	4.600	4.010	0.10
						1/2" Ice	5.050	4.450	0.16
						1" Ice	5.500	4.890	0.23
						2" Ice	6.440	5.820	0.42
APXVSPP18-C-A20 w/ Mount Pipe	C	From Leg	4.000 0.00 0.00	0.00	120.000	No Ice	4.600	4.010	0.10
						1/2" Ice	5.050	4.450	0.16
						1" Ice	5.500	4.890	0.23
						2" Ice	6.440	5.820	0.42
TD-RRH8X20-25	A	From Leg	4.000 0.00 0.00	0.00	120.000	No Ice	4.045	1.535	0.07
						1/2" Ice	4.298	1.714	0.10
						1" Ice	4.557	1.901	0.13
						2" Ice	5.098	2.295	0.20
TD-RRH8X20-25	B	From Leg	4.000 0.00 0.00	0.00	120.000	No Ice	4.045	1.535	0.07
						1/2" Ice	4.298	1.714	0.10
						1" Ice	4.557	1.901	0.13
						2" Ice	5.098	2.295	0.20
TD-RRH8X20-25	C	From Leg	4.000 0.00 0.00	0.00	120.000	No Ice	4.045	1.535	0.07
						1/2" Ice	4.298	1.714	0.10
						1" Ice	4.557	1.901	0.13
						2" Ice	5.098	2.295	0.20
Side Arm Mount [SO 701-3]	C	None		0.00	120.000	No Ice	3.020	3.020	0.20
						1/2" Ice	4.180	4.180	0.24
						1" Ice	5.330	5.330	0.28
						2" Ice	7.630	7.630	0.36
Platform Mount [LP 712-1]	C	None		0.00	120.000	No Ice	24.560	24.560	1.34
						1/2" Ice	27.920	27.920	1.91
						1" Ice	31.270	31.270	2.55
						2" Ice	37.980	37.980	3.97

Description	Face or Leg	Offset Type	Offsets: Horz Lateral ft	Vert ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
(2) 2.375" OD x 6' Mount Pipe	A	From Leg	4.000 0.00 0.00		0.00	120.000	No Ice 1/2" Ice 1" Ice 2" Ice	1.425 1.925 2.294 3.060	1.425 1.925 2.294 3.060	0.03 0.04 0.05 0.09
(2) 2.375" OD x 6' Mount Pipe	B	From Leg	4.000 0.00 0.00		0.00	120.000	No Ice 1/2" Ice 1" Ice 2" Ice	1.425 1.925 2.294 3.060	1.425 1.925 2.294 3.060	0.03 0.04 0.05 0.09
(2) 2.375" OD x 6' Mount Pipe	C	From Leg	4.000 0.00 0.00		0.00	120.000	No Ice 1/2" Ice 1" Ice 2" Ice	1.425 1.925 2.294 3.060	1.425 1.925 2.294 3.060	0.03 0.04 0.05 0.09
**********										
800MHZ RRH	A	From Leg	2.000 0.00 0.00		0.00	119.000	No Ice 1/2" Ice 1" Ice 2" Ice	2.134 2.320 2.512 2.920	1.773 1.946 2.127 2.510	0.05 0.07 0.10 0.16
800MHZ RRH	B	From Leg	2.000 0.00 0.00		0.00	119.000	No Ice 1/2" Ice 1" Ice 2" Ice	2.134 2.320 2.512 2.920	1.773 1.946 2.127 2.510	0.05 0.07 0.10 0.16
800MHZ RRH	C	From Leg	2.000 0.00 0.00		0.00	119.000	No Ice 1/2" Ice 1" Ice 2" Ice	2.134 2.320 2.512 2.920	1.773 1.946 2.127 2.510	0.05 0.07 0.10 0.16
1900MHZ RRH	A	From Leg	2.000 0.00 0.00		0.00	119.000	No Ice 1/2" Ice 1" Ice 2" Ice	2.492 2.695 2.906 3.351	3.258 3.484 3.718 4.206	0.04 0.08 0.11 0.19
1900MHZ RRH	B	From Leg	2.000 0.00 0.00		0.00	119.000	No Ice 1/2" Ice 1" Ice 2" Ice	2.492 2.695 2.906 3.351	3.258 3.484 3.718 4.206	0.04 0.08 0.11 0.19
1900MHZ RRH	C	From Leg	2.000 0.00 0.00		0.00	119.000	No Ice 1/2" Ice 1" Ice 2" Ice	2.492 2.695 2.906 3.351	3.258 3.484 3.718 4.206	0.04 0.08 0.11 0.19
Side Arm Mount [SO 102-3]	C	None			0.00	119.000	No Ice 1/2" Ice 1" Ice 2" Ice	3.600 4.180 4.750 5.900	3.600 4.180 4.750 5.900	0.07 0.11 0.14 0.20
(2) 2.375" OD x 4' Mount Pipe	A	From Leg	2.000 0.00 0.00		0.00	119.000	No Ice 1/2" Ice 1" Ice 2" Ice	0.866 1.111 1.365 1.901	0.866 1.111 1.365 1.901	0.02 0.03 0.04 0.06
(2) 2.375" OD x 4' Mount Pipe	B	From Leg	2.000 0.00 0.00		0.00	119.000	No Ice 1/2" Ice 1" Ice 2" Ice	0.866 1.111 1.365 1.901	0.866 1.111 1.365 1.901	0.02 0.03 0.04 0.06
(2) 2.375" OD x 4' Mount Pipe	C	From Leg	2.000 0.00 0.00		0.00	119.000	No Ice 1/2" Ice 1" Ice	0.866 1.111 1.365 1.901	0.866 1.111 1.365 1.901	0.02 0.03 0.04 0.06

Description	Face or Leg	Offset Type	Offsets: Horz Lateral ft / Vert ft / ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
**********						2" Ice			
(2) GPS_A	B	From Leg	4.000 0.00 1.00	0.00	72.000	No Ice 1/2" Ice 1" Ice 2" Ice	0.255 0.320 0.393 0.561	0.255 0.320 0.393 0.561	0.00 0.00 0.01 0.02
Side Arm Mount [SO 601-1]	B	None		0.00	72.000	No Ice 1/2" Ice 1" Ice 2" Ice	1.040 1.410 1.780 2.520	5.320 6.430 7.670 10.670	0.16 0.20 0.24 0.36

Tower Pressures - No Ice

G_H = 1.100

Section Elevation ft	z ft	K_Z	q_z psf	A_G ft^2	Face	A_F ft^2	A_R ft^2	A_{leg} ft^2	Leg %	C_AA_A In Face ft^2	C_AA_A Out Face ft^2
L1 160.000-152.000	155.964	1.122	37.03	20.161	A	0.000	20.161	20.161	100.00	0.000	0.000
					B	0.000	20.161		100.00	0.000	0.000
					C	0.000	20.161		100.00	0.000	0.000
L2 152.000-111.290	131.064	1.068	35.20	119.543	A	0.000	119.543	119.543	100.00	0.000	0.000
					B	0.000	119.543		100.00	0.000	0.000
					C	0.000	119.543		100.00	0.000	0.000
L3 111.290-77.420	94.116	0.971	32.01	119.425	A	0.000	119.425	119.425	100.00	0.000	0.000
					B	0.000	119.425		100.00	0.000	0.000
					C	0.000	119.425		100.00	0.000	0.000
L4 77.420-36.460	56.898	0.841	27.59	168.016	A	0.000	168.016	168.016	100.00	0.000	0.000
					B	0.000	168.016		100.00	0.000	0.000
					C	0.000	168.016		100.00	0.000	0.000
L5 36.460-0.000	17.831	0.7	23.10	170.600	A	0.000	170.600	170.600	100.00	0.000	0.000
					B	0.000	170.600		100.00	0.000	0.000
					C	0.000	170.600		100.00	0.000	0.000

Tower Pressure - With Ice

G_H = 1.100

Section Elevation ft	z ft	K_Z	q_z psf	t_Z in	A_G ft^2	Face	A_F ft^2	A_R ft^2	A_{leg} ft^2	Leg %	C_AA_A In Face ft^2	C_AA_A Out Face ft^2
L1 160.000-152.000	155.964	1.122	6.43	1.489	22.146	A	0.000	22.146	22.146	100.00	0.000	0.000
						B	0.000	22.146		100.00	0.000	0.000
						C	0.000	22.146		100.00	0.000	0.000
L2 152.000-111.290	131.064	1.068	6.11	1.464	129.473	A	0.000	129.473	129.473	100.00	0.000	0.000
						B	0.000	129.473		100.00	0.000	0.000
						C	0.000	129.473		100.00	0.000	0.000
L3 111.290-77.420	94.116	0.971	5.56	1.416	127.686	A	0.000	127.686	127.686	100.00	0.000	0.000
						B	0.000	127.686		100.00	0.000	0.000
						C	0.000	127.686		100.00	0.000	0.000
L4 77.420-36.460	56.898	0.841	4.79	1.346	177.682	A	0.000	177.682	177.682	100.00	0.000	0.000
						B	0.000	177.682		100.00	0.000	0.000
						C	0.000	177.682		100.00	0.000	0.000
L5 36.460-0.000	17.831	0.7	4.01	1.199	178.781	A	0.000	178.781	178.781	100.00	0.000	0.000
						B	0.000	178.781		100.00	0.000	0.000
						C	0.000	178.781		100.00	0.000	0.000

Tower Pressure - Service

G_H = 1.100

Section Elevation ft	z ft	K_Z	q_z psf	A_G ft²	Face	A_F ft²	A_R ft²	A_{leg} ft²	Leg %	C_AA_A In Face ft²	C_AA_A Out Face ft²
L1 160.000-152.000	155.964	1.122	8.72	20.161	A	0.000	20.161	20.161	100.00	0.000	0.000
					B	0.000	20.161		100.00	0.000	0.000
					C	0.000	20.161		100.00	0.000	0.000
L2 152.000-111.290	131.064	1.068	8.29	119.543	A	0.000	119.543	119.543	100.00	0.000	0.000
					B	0.000	119.543		100.00	0.000	0.000
					C	0.000	119.543		100.00	0.000	0.000
L3 111.290-77.420	94.116	0.971	7.54	119.425	A	0.000	119.425	119.425	100.00	0.000	0.000
					B	0.000	119.425		100.00	0.000	0.000
					C	0.000	119.425		100.00	0.000	0.000
L4 77.420-36.460	56.898	0.841	6.50	168.016	A	0.000	168.016	168.016	100.00	0.000	0.000
					B	0.000	168.016		100.00	0.000	0.000
					C	0.000	168.016		100.00	0.000	0.000
L5 36.460-0.000	17.831	0.7	5.44	170.600	A	0.000	170.600	170.600	100.00	0.000	0.000
					B	0.000	170.600		100.00	0.000	0.000
					C	0.000	170.600		100.00	0.000	0.000

Load Combinations

Comb. No.	Description
1	Dead Only
2	1.2 Dead+1.0 Wind 0 deg - No Ice
3	0.9 Dead+1.0 Wind 0 deg - No Ice
4	1.2 Dead+1.0 Wind 30 deg - No Ice
5	0.9 Dead+1.0 Wind 30 deg - No Ice
6	1.2 Dead+1.0 Wind 60 deg - No Ice
7	0.9 Dead+1.0 Wind 60 deg - No Ice
8	1.2 Dead+1.0 Wind 90 deg - No Ice
9	0.9 Dead+1.0 Wind 90 deg - No Ice
10	1.2 Dead+1.0 Wind 120 deg - No Ice
11	0.9 Dead+1.0 Wind 120 deg - No Ice
12	1.2 Dead+1.0 Wind 150 deg - No Ice
13	0.9 Dead+1.0 Wind 150 deg - No Ice
14	1.2 Dead+1.0 Wind 180 deg - No Ice
15	0.9 Dead+1.0 Wind 180 deg - No Ice
16	1.2 Dead+1.0 Wind 210 deg - No Ice
17	0.9 Dead+1.0 Wind 210 deg - No Ice
18	1.2 Dead+1.0 Wind 240 deg - No Ice
19	0.9 Dead+1.0 Wind 240 deg - No Ice
20	1.2 Dead+1.0 Wind 270 deg - No Ice
21	0.9 Dead+1.0 Wind 270 deg - No Ice
22	1.2 Dead+1.0 Wind 300 deg - No Ice
23	0.9 Dead+1.0 Wind 300 deg - No Ice
24	1.2 Dead+1.0 Wind 330 deg - No Ice
25	0.9 Dead+1.0 Wind 330 deg - No Ice
26	1.2 Dead+1.0 Ice+1.0 Temp
27	1.2 Dead+1.0 Wind 0 deg+1.0 Ice+1.0 Temp
28	1.2 Dead+1.0 Wind 30 deg+1.0 Ice+1.0 Temp
29	1.2 Dead+1.0 Wind 60 deg+1.0 Ice+1.0 Temp
30	1.2 Dead+1.0 Wind 90 deg+1.0 Ice+1.0 Temp
31	1.2 Dead+1.0 Wind 120 deg+1.0 Ice+1.0 Temp
32	1.2 Dead+1.0 Wind 150 deg+1.0 Ice+1.0 Temp
33	1.2 Dead+1.0 Wind 180 deg+1.0 Ice+1.0 Temp
34	1.2 Dead+1.0 Wind 210 deg+1.0 Ice+1.0 Temp
35	1.2 Dead+1.0 Wind 240 deg+1.0 Ice+1.0 Temp
36	1.2 Dead+1.0 Wind 270 deg+1.0 Ice+1.0 Temp
37	1.2 Dead+1.0 Wind 300 deg+1.0 Ice+1.0 Temp
38	1.2 Dead+1.0 Wind 330 deg+1.0 Ice+1.0 Temp
39	Dead+Wind 0 deg - Service
40	Dead+Wind 30 deg - Service
41	Dead+Wind 60 deg - Service
42	Dead+Wind 90 deg - Service

Comb. No.	Description
43	Dead+Wind 120 deg - Service
44	Dead+Wind 150 deg - Service
45	Dead+Wind 180 deg - Service
46	Dead+Wind 210 deg - Service
47	Dead+Wind 240 deg - Service
48	Dead+Wind 270 deg - Service
49	Dead+Wind 300 deg - Service
50	Dead+Wind 330 deg - Service

Maximum Member Forces

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
L1	160 - 152	Pole	Max Tension	26	0.00	0.00	-0.00
			Max. Compression	26	-11.43	-0.01	0.01
			Max. Mx	8	-4.82	-50.72	0.01
			Max. My	2	-4.82	-0.01	50.73
			Max. Vy	8	6.19	-50.72	0.01
			Max. Vx	2	-6.19	-0.01	50.73
			Max. Torque	22			0.00
L2	152 - 111.29	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-44.15	-2.57	2.56
			Max. Mx	8	-19.90	-551.99	1.04
			Max. My	2	-19.89	-1.07	553.65
			Max. Vy	8	20.24	-551.99	1.04
			Max. Vx	2	-20.31	-1.07	553.65
			Max. Torque	13			1.38
L3	111.29 - 77.42	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-54.49	-2.62	2.62
			Max. Mx	8	-27.61	-1271.32	0.77
			Max. My	2	-27.60	-0.81	1275.28
			Max. Vy	8	23.15	-1271.32	0.77
			Max. Vx	2	-23.22	-0.81	1275.28
			Max. Torque	13			1.38
L4	77.42 - 36.46	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-72.12	-2.78	2.53
			Max. Mx	8	-41.64	-2274.44	0.42
			Max. My	2	-41.64	-0.47	2281.14
			Max. Vy	8	26.74	-2274.44	0.42
			Max. Vx	2	-26.81	-0.47	2281.14
			Max. Torque	13			1.43
L5	36.46 - 0	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-95.63	-2.78	2.53
			Max. Mx	8	-61.39	-3507.93	0.03
			Max. My	2	-61.39	-0.08	3517.58
			Max. Vy	8	29.81	-3507.93	0.03
			Max. Vx	2	-29.87	-0.08	3517.58
			Max. Torque	13			1.43

Maximum Reactions

Location	Condition	Gov. Load Comb.	Vertical K	Horizontal, X K	Horizontal, Z K
Pole	Max. Vert	27	95.63	0.00	8.09
	Max. H_x	20	61.40	29.78	0.01
	Max. H_z	2	61.40	0.01	29.85
	Max. M_x	2	3517.58	0.01	29.85
	Max. M_z	8	3507.93	-29.78	-0.01
	Max. Torsion	13	1.43	-14.90	-25.85
	Min. Vert	19	46.05	25.79	-14.92
	Min. H_x	8	61.40	-29.78	-0.01
	Min. H_z	14	61.40	-0.01	-29.85

Location	Condition	Gov. Load Comb.	Vertical K	Horizontal, X K	Horizontal, Z K
	Min. M_x	14	-3514.89	-0.01	-29.85
	Min. M_z	20	-3505.13	29.78	0.01
	Min. Torsion	25	-1.43	14.90	25.85

Tower Mast Reaction Summary

Load Combination	Vertical K	$Shear_x$ K	$Shear_z$ K	Overturning Moment, M_x kip-ft	Overturning Moment, M_z kip-ft	Torque kip-ft
Dead Only	51.17	0.00	0.00	-1.05	-1.09	0.00
1.2 Dead+1.0 Wind 0 deg - No Ice	61.40	-0.01	-29.85	-3517.58	-0.08	1.16
0.9 Dead+1.0 Wind 0 deg - No Ice	46.05	-0.01	-29.85	-3484.53	0.27	1.17
1.2 Dead+1.0 Wind 30 deg - No Ice	61.40	14.88	-25.84	-3045.85	-1753.53	0.60
0.9 Dead+1.0 Wind 30 deg - No Ice	46.05	14.88	-25.84	-3017.18	-1736.87	0.60
1.2 Dead+1.0 Wind 60 deg - No Ice	61.40	25.79	-14.92	-1758.34	-3037.49	-0.13
0.9 Dead+1.0 Wind 60 deg - No Ice	46.05	25.79	-14.92	-1741.64	-3008.89	-0.13
1.2 Dead+1.0 Wind 90 deg - No Ice	61.40	29.78	0.01	-0.03	-3507.93	-0.82
0.9 Dead+1.0 Wind 90 deg - No Ice	46.05	29.78	0.01	0.31	-3474.96	-0.83
1.2 Dead+1.0 Wind 120 deg - No Ice	61.40	25.80	14.93	1757.92	-3038.80	-1.29
0.9 Dead+1.0 Wind 120 deg - No Ice	46.05	25.80	14.93	1741.91	-3010.19	-1.30
1.2 Dead+1.0 Wind 150 deg - No Ice	61.40	14.90	25.85	3044.47	-1755.80	-1.42
0.9 Dead+1.0 Wind 150 deg - No Ice	46.05	14.90	25.85	3016.50	-1739.11	-1.43
1.2 Dead+1.0 Wind 180 deg - No Ice	61.40	0.01	29.85	3514.89	-2.71	-1.16
0.9 Dead+1.0 Wind 180 deg - No Ice	46.05	0.01	29.85	3482.55	-2.33	-1.17
1.2 Dead+1.0 Wind 210 deg - No Ice	61.40	-14.88	25.84	3043.16	1750.73	-0.60
0.9 Dead+1.0 Wind 210 deg - No Ice	46.05	-14.88	25.84	3015.20	1734.81	-0.60
1.2 Dead+1.0 Wind 240 deg - No Ice	61.40	-25.79	14.92	1755.65	3034.70	0.13
0.9 Dead+1.0 Wind 240 deg - No Ice	46.05	-25.79	14.92	1739.66	3006.83	0.13
1.2 Dead+1.0 Wind 270 deg - No Ice	61.40	-29.78	-0.01	-2.66	3505.13	0.82
0.9 Dead+1.0 Wind 270 deg - No Ice	46.05	-29.78	-0.01	-2.29	3472.90	0.83
1.2 Dead+1.0 Wind 300 deg - No Ice	61.40	-25.80	-14.93	-1760.61	3036.01	1.29
0.9 Dead+1.0 Wind 300 deg - No Ice	46.05	-25.80	-14.93	-1743.89	3008.13	1.30
1.2 Dead+1.0 Wind 330 deg - No Ice	61.40	-14.90	-25.85	-3047.16	1753.00	1.41
0.9 Dead+1.0 Wind 330 deg - No Ice	46.05	-14.90	-25.85	-3018.48	1737.06	1.43
1.2 Dead+1.0 Ice+1.0 Temp	95.63	0.00	-0.00	-2.53	-2.78	0.00
1.2 Dead+1.0 Wind 0 deg+1.0 Ice+1.0 Temp	95.63	-0.00	-8.09	-957.54	-2.65	0.30
1.2 Dead+1.0 Wind 30 deg+1.0 Ice+1.0 Temp	95.63	4.03	-7.00	-829.46	-479.12	0.17
1.2 Dead+1.0 Wind 60 deg+1.0 Ice+1.0 Temp	95.63	6.99	-4.04	-479.84	-828.01	-0.01
1.2 Dead+1.0 Wind 90	95.63	8.07	0.00	-2.38	-955.82	-0.18

Load Combination	Vertical K	$Shear_x$ K	$Shear_z$ K	Overturning Moment, M_x kip-ft	Overturning Moment, M_z kip-ft	Torque kip-ft
deg+1.0 Ice+1.0 Temp						
1.2 Dead+1.0 Wind 120 deg+1.0 Ice+1.0 Temp	95.63	6.99	4.04	475.01	-828.32	-0.31
1.2 Dead+1.0 Wind 150 deg+1.0 Ice+1.0 Temp	95.63	4.04	7.00	824.39	-479.66	-0.35
1.2 Dead+1.0 Wind 180 deg+1.0 Ice+1.0 Temp	95.63	0.00	8.09	952.16	-3.27	-0.30
1.2 Dead+1.0 Wind 210 deg+1.0 Ice+1.0 Temp	95.63	-4.03	7.00	824.08	473.20	-0.17
1.2 Dead+1.0 Wind 240 deg+1.0 Ice+1.0 Temp	95.63	-6.99	4.04	474.46	822.08	0.01
1.2 Dead+1.0 Wind 270 deg+1.0 Ice+1.0 Temp	95.63	-8.07	-0.00	-3.00	949.90	0.18
1.2 Dead+1.0 Wind 300 deg+1.0 Ice+1.0 Temp	95.63	-6.99	-4.04	-480.39	822.40	0.31
1.2 Dead+1.0 Wind 330 deg+1.0 Ice+1.0 Temp	95.63	-4.04	-7.00	-829.77	473.74	0.35
Dead+Wind 0 deg - Service	51.17	-0.00	-7.03	-824.35	-0.85	0.28
Dead+Wind 30 deg - Service	51.17	3.50	-6.09	-713.91	-411.37	0.14
Dead+Wind 60 deg - Service	51.17	6.07	-3.51	-412.47	-711.98	-0.03
Dead+Wind 90 deg - Service	51.17	7.01	0.00	-0.81	-822.12	-0.19
Dead+Wind 120 deg - Service	51.17	6.07	3.52	410.77	-712.29	-0.31
Dead+Wind 150 deg - Service	51.17	3.51	6.09	711.99	-411.91	-0.34
Dead+Wind 180 deg - Service	51.17	0.00	7.03	822.13	-1.46	-0.28
Dead+Wind 210 deg - Service	51.17	-3.50	6.09	711.68	409.06	-0.14
Dead+Wind 240 deg - Service	51.17	-6.07	3.51	410.24	709.67	0.03
Dead+Wind 270 deg - Service	51.17	-7.01	-0.00	-1.42	819.81	0.19
Dead+Wind 300 deg - Service	51.17	-6.07	-3.52	-413.00	709.97	0.31
Dead+Wind 330 deg - Service	51.17	-3.51	-6.09	-714.21	409.59	0.34

Solution Summary

	Sum of Applied Forces			Sum of Reactions			
Load Comb.	PX K	PY K	PZ K	PX K	PY K	PZ K	% Error
1	0.00	-51.17	0.00	0.00	51.17	0.00	0.000%
2	-0.01	-61.40	-29.85	0.01	61.40	29.85	0.000%
3	-0.01	-46.05	-29.85	0.01	46.05	29.85	0.000%
4	14.88	-61.40	-25.84	-14.88	61.40	25.84	0.000%
5	14.88	-46.05	-25.84	-14.88	46.05	25.84	0.000%
6	25.79	-61.40	-14.92	-25.79	61.40	14.92	0.000%
7	25.79	-46.05	-14.92	-25.79	46.05	14.92	0.000%
8	29.78	-61.40	0.01	-29.78	61.40	-0.01	0.000%
9	29.78	-46.05	0.01	-29.78	46.05	-0.01	0.000%
10	25.80	-61.40	14.93	-25.80	61.40	-14.93	0.000%
11	25.80	-46.05	14.93	-25.80	46.05	-14.93	0.000%
12	14.90	-61.40	25.85	-14.90	61.40	-25.85	0.000%
13	14.90	-46.05	25.85	-14.90	46.05	-25.85	0.000%
14	0.01	-61.40	29.85	-0.01	61.40	-29.85	0.000%
15	0.01	-46.05	29.85	-0.01	46.05	-29.85	0.000%
16	-14.88	-61.40	25.84	14.88	61.40	-25.84	0.000%
17	-14.88	-46.05	25.84	14.88	46.05	-25.84	0.000%
18	-25.79	-61.40	14.92	25.79	61.40	-14.92	0.000%
19	-25.79	-46.05	14.92	25.79	46.05	-14.92	0.000%
20	-29.78	-61.40	-0.01	29.78	61.40	0.01	0.000%
21	-29.78	-46.05	-0.01	29.78	46.05	0.01	0.000%
22	-25.80	-61.40	-14.93	25.80	61.40	14.93	0.000%
23	-25.80	-46.05	-14.93	25.80	46.05	14.93	0.000%
24	-14.90	-61.40	-25.85	14.90	61.40	25.85	0.000%

Load Comb.	Sum of Applied Forces PX K	PY K	PZ K	Sum of Reactions PX K	PY K	PZ K	% Error
25	-14.90	-46.05	-25.85	14.90	46.05	25.85	0.000%
26	0.00	-95.63	0.00	-0.00	95.63	0.00	0.000%
27	-0.00	-95.63	-8.09	0.00	95.63	8.09	0.000%
28	4.03	-95.63	-7.00	-4.03	95.63	7.00	0.000%
29	6.99	-95.63	-4.04	-6.99	95.63	4.04	0.000%
30	8.07	-95.63	0.00	-8.07	95.63	-0.00	0.000%
31	6.99	-95.63	4.04	-6.99	95.63	-4.04	0.000%
32	4.04	-95.63	7.00	-4.04	95.63	-7.00	0.000%
33	0.00	-95.63	8.09	-0.00	95.63	-8.09	0.000%
34	-4.03	-95.63	7.00	4.03	95.63	-7.00	0.000%
35	-6.99	-95.63	4.04	6.99	95.63	-4.04	0.000%
36	-8.07	-95.63	-0.00	8.07	95.63	0.00	0.000%
37	-6.99	-95.63	-4.04	6.99	95.63	4.04	0.000%
38	-4.04	-95.63	-7.00	4.04	95.63	7.00	0.000%
39	-0.00	-51.17	-7.03	0.00	51.17	7.03	0.000%
40	3.50	-51.17	-6.09	-3.50	51.17	6.09	0.000%
41	6.07	-51.17	-3.51	-6.07	51.17	3.51	0.000%
42	7.01	-51.17	0.00	-7.01	51.17	-0.00	0.000%
43	6.07	-51.17	3.52	-6.07	51.17	-3.52	0.000%
44	3.51	-51.17	6.09	-3.51	51.17	-6.09	0.000%
45	0.00	-51.17	7.03	-0.00	51.17	-7.03	0.000%
46	-3.50	-51.17	6.09	3.50	51.17	-6.09	0.000%
47	-6.07	-51.17	3.51	6.07	51.17	-3.51	0.000%
48	-7.01	-51.17	-0.00	7.01	51.17	0.00	0.000%
49	-6.07	-51.17	-3.52	6.07	51.17	3.52	0.000%
50	-3.51	-51.17	-6.09	3.51	51.17	6.09	0.000%

Non-Linear Convergence Results

Load Combination	Converged?	Number of Cycles	Displacement Tolerance	Force Tolerance
1	Yes	4	0.00000001	0.00000001
2	Yes	4	0.00000001	0.00066790
3	Yes	4	0.00000001	0.00043975
4	Yes	5	0.00000001	0.00055997
5	Yes	5	0.00000001	0.00026767
6	Yes	5	0.00000001	0.00055403
7	Yes	5	0.00000001	0.00026470
8	Yes	4	0.00000001	0.00051232
9	Yes	4	0.00000001	0.00033121
10	Yes	5	0.00000001	0.00053558
11	Yes	5	0.00000001	0.00025549
12	Yes	5	0.00000001	0.00057042
13	Yes	5	0.00000001	0.00027337
14	Yes	4	0.00000001	0.00068847
15	Yes	4	0.00000001	0.00045389
16	Yes	5	0.00000001	0.00054146
17	Yes	5	0.00000001	0.00025888
18	Yes	5	0.00000001	0.00054606
19	Yes	5	0.00000001	0.00026130
20	Yes	4	0.00000001	0.00053218
21	Yes	4	0.00000001	0.00034508
22	Yes	5	0.00000001	0.00056813
23	Yes	5	0.00000001	0.00027228
24	Yes	5	0.00000001	0.00053460
25	Yes	5	0.00000001	0.00025494
26	Yes	4	0.00000001	0.00002517
27	Yes	5	0.00000001	0.00030441
28	Yes	5	0.00000001	0.00035564
29	Yes	5	0.00000001	0.00035487
30	Yes	5	0.00000001	0.00030370
31	Yes	5	0.00000001	0.00035004
32	Yes	5	0.00000001	0.00035224
33	Yes	5	0.00000001	0.00030055
34	Yes	5	0.00000001	0.00034580
35	Yes	5	0.00000001	0.00034586
36	Yes	5	0.00000001	0.00029966

37	Yes	5	0.00000001	0.00035157
38	Yes	5	0.00000001	0.00035005
39	Yes	4	0.00000001	0.00005564
40	Yes	4	0.00000001	0.00020662
41	Yes	4	0.00000001	0.00020032
42	Yes	4	0.00000001	0.00004977
43	Yes	4	0.00000001	0.00018211
44	Yes	4	0.00000001	0.00021833
45	Yes	4	0.00000001	0.00005550
46	Yes	4	0.00000001	0.00018615
47	Yes	4	0.00000001	0.00019078
48	Yes	4	0.00000001	0.00004962
49	Yes	4	0.00000001	0.00021587
50	Yes	4	0.00000001	0.00018124

Maximum Tower Deflections - Service Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L1	160 - 152	15.88	40	0.87	0.00
L2	152 - 111.29	14.43	40	0.86	0.00
L3	116.71 - 77.42	8.51	39	0.71	0.00
L4	83.59 - 36.46	4.28	39	0.48	0.00
L5	43.54 - 0	1.17	39	0.24	0.00

Critical Deflections and Radius of Curvature - Service Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
160.000	ERICSSON AIR 21 B2A B4P w/ Mount Pipe	40	15.88	0.87	0.00	57033
153.000	RRUS 11	40	14.61	0.86	0.00	41397
149.000	HPA-65R-BUU-H6 w/ Mount Pipe	40	13.90	0.85	0.00	28318
140.000	(2) APL868013-42T0 w/ Mount Pipe	39	12.31	0.83	0.00	17523
120.000	APXVTM14-ALU-I20 w/ Mount Pipe	39	9.01	0.73	0.00	9500
119.000	800MHZ RRH	39	8.86	0.72	0.00	9309
72.000	(2) GPS_A	39	3.15	0.41	0.00	8698

Maximum Tower Deflections - Design Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L1	160 - 152	67.74	2	3.69	0.01
L2	152 - 111.29	61.58	2	3.66	0.01
L3	116.71 - 77.42	36.32	2	3.03	0.00
L4	83.59 - 36.46	18.28	2	2.07	0.00
L5	43.54 - 0	4.99	2	1.03	0.00

Critical Deflections and Radius of Curvature - Design Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
160.000	ERICSSON AIR 21 B2A B4P w/ Mount Pipe	2	67.74	3.69	0.01	13630
153.000	RRUS 11	2	62.35	3.66	0.01	9891
149.000	HPA-65R-BUU-H6 w/ Mount Pipe	2	59.29	3.64	0.01	6759

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
140.000	(2) APL868013-42T0 w/ Mount Pipe	2	52.52	3.53	0.01	4170
120.000	APXVTM14-ALU-I20 w/ Mount Pipe	2	38.46	3.11	0.00	2254
119.000	800MHZ RRH	2	37.80	3.09	0.00	2208
72.000	(2) GPS_A	2	13.44	1.75	0.00	2040

Compression Checks
Pole Design Data

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in^2	P_u K	ϕP_n K	Ratio $\frac{P_u}{\phi P_n}$
L1	160 - 152 (1)	TP30.62x29x0.188	8.000	0.000	0.0	18.111	-4.82	1059.50	0.005
L2	152 - 111.29 (2)	TP38.86x30.62x0.25	40.710	0.000	0.0	29.767	-19.89	1741.34	0.011
L3	111.29 - 77.42 (3)	TP45.09x37.263x0.313	39.290	0.000	0.0	43.194	-27.60	2526.88	0.011
L4	77.42 - 36.46 (4)	TP52.62x43.236x0.438	47.130	0.000	0.0	70.504	-41.64	4124.51	0.010
L5	36.46 - 0 (5)	TP59x50.335x0.5	43.540	0.000	0.0	92.840	-61.39	5431.11	0.011

Pole Bending Design Data

Section No.	Elevation ft	Size	M_{ux} kip-ft	ϕM_{nx} kip-ft	Ratio $\frac{M_{ux}}{\phi M_{nx}}$	M_{uy} kip-ft	ϕM_{ny} kip-ft	Ratio $\frac{M_{uy}}{\phi M_{ny}}$
L1	160 - 152 (1)	TP30.62x29x0.188	50.73	701.24	0.072	0.00	701.24	0.000
L2	152 - 111.29 (2)	TP38.86x30.62x0.25	553.65	1472.44	0.376	0.00	1472.44	0.000
L3	111.29 - 77.42 (3)	TP45.09x37.263x0.313	1275.28	2556.32	0.499	0.00	2556.32	0.000
L4	77.42 - 36.46 (4)	TP52.62x43.236x0.438	2281.14	5177.14	0.441	0.00	5177.14	0.000
L5	36.46 - 0 (5)	TP59x50.335x0.5	3517.58	7835.57	0.449	0.00	7835.57	0.000

Pole Shear Design Data

Section No.	Elevation ft	Size	Actual V_u K	ϕV_n K	Ratio $\frac{V_u}{\phi V_n}$	Actual T_u kip-ft	ϕT_n kip-ft	Ratio $\frac{T_u}{\phi T_n}$
L1	160 - 152 (1)	TP30.62x29x0.188	6.19	317.85	0.019	0.00	847.11	0.000
L2	152 - 111.29 (2)	TP38.86x30.62x0.25	20.31	517.17	0.039	1.08	1716.19	0.001
L3	111.29 - 77.42 (3)	TP45.09x37.263x0.313	23.22	752.73	0.031	1.08	2891.07	0.000
L4	77.42 - 36.46 (4)	TP52.62x43.236x0.438	26.81	1228.22	0.022	1.16	5501.79	0.000
L5	36.46 - 0 (5)	TP59x50.335x0.5	29.87	1618.70	0.018	1.16	8347.33	0.000

Pole Interaction Design Data

Section No.	Elevation ft	Ratio $\frac{P_u}{\phi P_n}$	Ratio $\frac{M_{ux}}{\phi M_{nx}}$	Ratio $\frac{M_{uy}}{\phi M_{ny}}$	Ratio $\frac{V_u}{\phi V_n}$	Ratio $\frac{T_u}{\phi T_n}$	Comb. Stress Ratio	Allow. Stress Ratio	Criteria
L1	160 - 152 (1)	0.005	0.072	0.000	0.019	0.000	0.077	1.050	4.8.2
L2	152 - 111.29 (2)	0.011	0.376	0.000	0.039	0.001	0.389	1.050	4.8.2

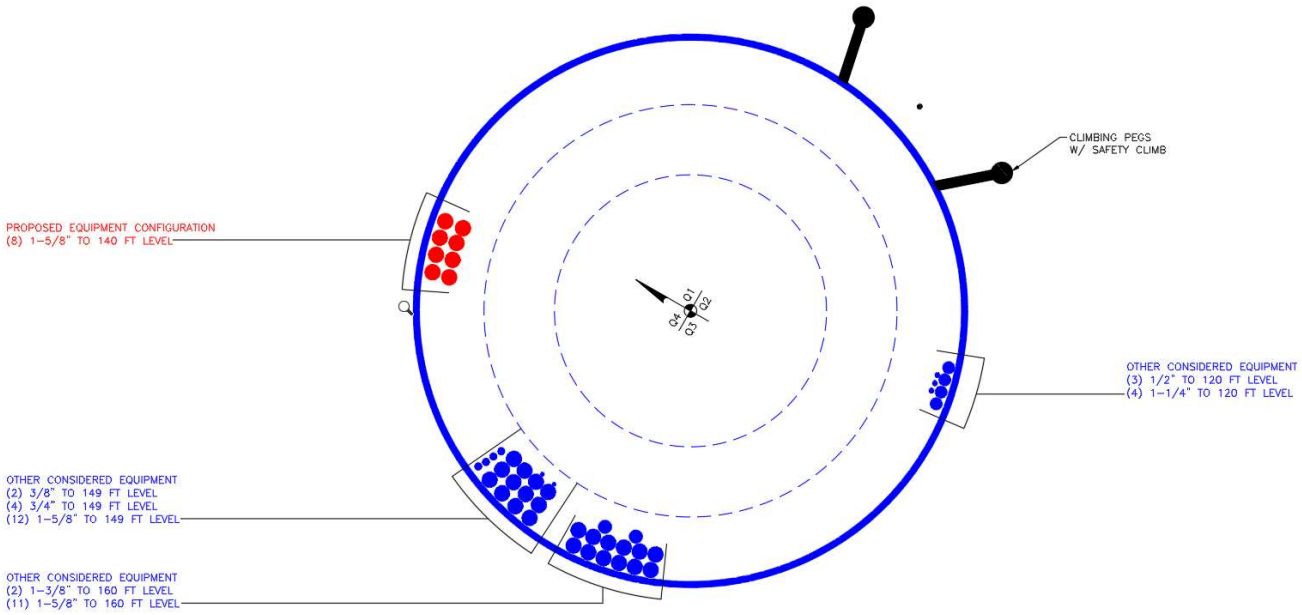
Section No.	Elevation ft	Ratio $\frac{P_u}{\phi P_n}$	Ratio $\frac{M_{ux}}{\phi M_{nx}}$	Ratio $\frac{M_{uy}}{\phi M_{ny}}$	Ratio $\frac{V_u}{\phi V_n}$	Ratio $\frac{T_u}{\phi T_n}$	Comb. Stress Ratio	Allow. Stress Ratio	Criteria
L3	111.29 - 77.42 (3)	0.011	0.499	0.000	0.031	0.000	0.511	1.050	4.8.2
L4	77.42 - 36.46 (4)	0.010	0.441	0.000	0.022	0.000	0.451	1.050	4.8.2
L5	36.46 - 0 (5)	0.011	0.449	0.000	0.018	0.000	0.461	1.050	4.8.2

Section Capacity Table

Section No.	Elevation ft	Component Type	Size	Critical Element	P K	ϕP_{allow} K	% Capacity	Pass Fail
L1	160 - 152	Pole	TP30.62x29x0.188	1	-4.82	1112.47	7.4	Pass
L2	152 - 111.29	Pole	TP38.86x30.62x0.25	2	-19.89	1828.41	37.0	Pass
L3	111.29 - 77.42	Pole	TP45.09x37.263x0.313	3	-27.60	2653.22	48.6	Pass
L4	77.42 - 36.46	Pole	TP52.62x43.236x0.438	4	-41.64	4330.74	43.0	Pass
L5	36.46 - 0	Pole	TP59x50.335x0.5	5	-61.39	5702.67	43.9	Pass
							Summary	
						Pole (L3)	48.6	Pass
						RATING =	**48.6**	**Pass**

APPENDIX B

BASE LEVEL DRAWING


CLIMBING PEGS
W/ SAFETY CLIMB
PROPOSED EQUIPMENT CONFIGURATION
(8) 1-5/8" TO 140 FT LEVEL
Q1
Q2
Q3
Q4
OTHER CONSIDERED EQUIPMENT
(3) 1/2" TO 120 FT LEVEL
(4) 1-1/4" TO 120 FT LEVEL
OTHER CONSIDERED EQUIPMENT
(2) 3/8" TO 149 FT LEVEL
(4) 3/4" TO 149 FT LEVEL
(12) 1-5/8" TO 149 FT LEVEL
OTHER CONSIDERED EQUIPMENT
(2) 1-3/8" TO 160 FT LEVEL
(11) 1-5/8" TO 160 FT LEVEL

APPENDIX C

ADDITIONAL CALCULATIONS

Monopole Flange Plate Connection

Elevation = 152 ft.

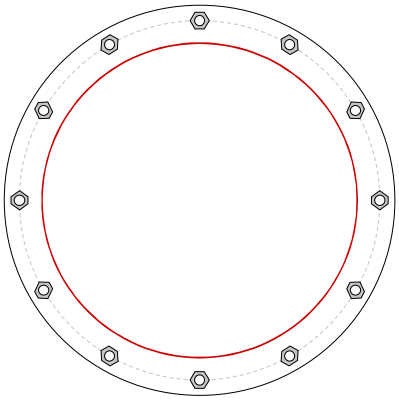
BU #	
Site Name	
Order #	

TIA-222 Revision	H

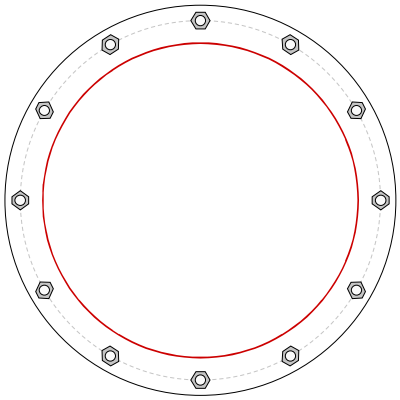
Applied Loads	
Moment (kip-ft)	50.73
Axial Force (kips)	4.82
Shear Force (kips)	6.19

**TIA-222-H Section 15.5 Applied*

Top Plate - External



Bottom Plate - External



Connection Properties

Bolt Data

(12) 1" ø bolts (A325 N; Fy=92 ksi, Fu=120 ksi) on 35" BC

Top Plate Data

38" OD x 1" Plate (A572-60; Fy=60 ksi, Fu=75 ksi)

Bottom Plate Data

38" OD x 1" Plate (A572-60; Fy=60 ksi, Fu=75 ksi)

Top Stiffener Data

N/A

Bottom Stiffener Data

N/A

Top Pole Data

30.62" x 0.1875" 18-sided pole (A572-65; Fy=65 ksi, Fu=80 ksi)

Bottom Pole Data

30.62" x 0.25" 18-sided pole (A572-65; Fy=65 ksi, Fu=80 ksi)

Analysis Results

Bolt Capacity

Max Load (kips)	5.39	
Allowable (kips)	54.53	
Stress Rating:	**9.4%**	Pass

Top Plate Capacity

Max Stress (ksi):	4.51	(Flexural)
Allowable Stress (ksi):	54.00	
Stress Rating:	**8.0%**	Pass
Tension Side Stress Rating:	**3.4%**	Pass

Bottom Plate Capacity

Max Stress (ksi):	4.51	(Flexural)
Allowable Stress (ksi):	54.00	
Stress Rating:	**8.0%**	Pass
Tension Side Stress Rating:	**3.4%**	Pass

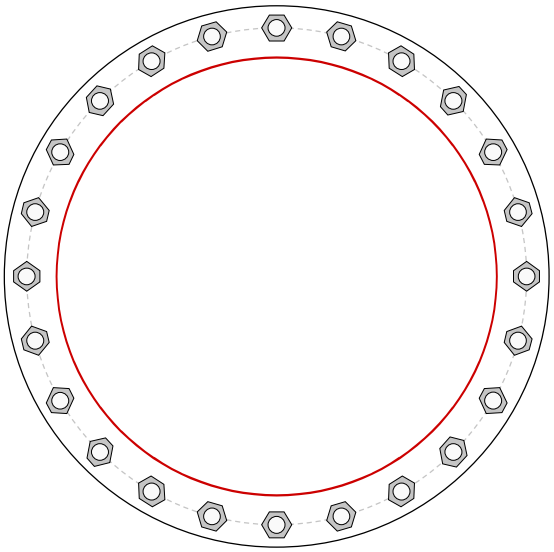
Monopole Base Plate Connection

Site Info	
BU #	
Site Name	
Order #	

Analysis Considerations	
TIA-222 Revision	H
Grout Considered:	No
l_{ar} (in)	0.5

Applied Loads	
Moment (kip-ft)	3517.58
Axial Force (kips)	61.39
Shear Force (kips)	29.87

**TIA-222-H Section 15.5 Applied*



Connection Properties

Anchor Rod Data

(24) 2-1/4" ø bolts (A615-75 N; Fy=75 ksi, Fu=100 ksi) on 67" BC

Base Plate Data

73" OD x 2.25" Plate (A572-60; Fy=60 ksi, Fu=75 ksi)

Stiffener Data

N/A

Pole Data

59" x 0.5" 18-sided pole (A572-65; Fy=65 ksi, Fu=80 ksi)

Analysis Results

Anchor Rod Summary *(units of kips, kip-in)*

Pu_c = 107.51	ϕPn_c = 243.75	**Stress Rating**
Vu = 1.24	ϕVn = 73.13	**42.0%**
Mu = n/a	ϕMn = n/a	**Pass**

Base Plate Summary

Max Stress (ksi):	26.89	(Flexural)
Allowable Stress (ksi):	54	
Stress Rating:	**47.4%**	**Pass**

Pier and Pad Foundation

BU # :	
Site Name:	
App. Number:	

TIA-222 Revision:	H
Tower Type:	Monopole

Top & Bot. Pad Rein. Different?:	☐
Block Foundation?:	☐

Superstructure Analysis Reactions		
Compression, P_{comp}:	61	kips
Base Shear, Vu_comp:	30	kips
Moment, M_u:	3518	ft-kips
Tower Height, **H**:	160	ft
BP Dist. Above Fdn, bp_{dist}:	2.75	in

Pier Properties		
Pier Shape:	Square	
Pier Diameter, **dpier**:	7	ft
Ext. Above Grade, **E**:	0.5	ft
Pier Rebar Size, **Sc**:	11	
Pier Rebar Quantity, **mc**:	21	
Pier Tie/Spiral Size, **St**:	4	
Pier Tie/Spiral Quantity, **mt**:	8	
Pier Reinforcement Type:	Tie	
Pier Clear Cover, cc_{pier}:	4	in

Pad Properties		
Depth, **D**:	9.5	ft
Pad Width, **W**:	25	ft
Pad Thickness, **T**:	4.5	ft
Pad Rebar Size (Bottom), **Sp**:	7	
Pad Rebar Quantity (Bottom), **mp**:	38	
Pad Clear Cover, cc_{pad}:	3	in

Material Properties		
Rebar Grade, **Fy**:	60	ksi
Concrete Compressive Strength, **F'c**:	3	ksi
Dry Concrete Density, δ**c**:	150	pcf

Soil Properties		
Total Soil Unit Weight, γ:	120	pcf
Ultimate Gross Bearing, Qult:	10.000	ksf
Cohesion, **Cu**:		ksf
Friction Angle, φ:	34	degrees
SPT Blow Count, N_{blows}:	16	
Base Friction, μ:		
Neglected Depth, **N**:	5.00	ft
Foundation Bearing on Rock?	No	
Groundwater Depth, **gw**:	n/a	ft

<--Toggle between Gross and Net

Foundation Analysis Checks				
	Capacity	**Demand**	**Rating***	**Check**
Lateral (Sliding) (kips)	501.72	30.00	**5.7%**	**Pass**
Bearing Pressure (ksf)	7.50	2.68	**34.0%**	**Pass**
*Overturning (kip*ft)*	8860.43	3824.88	**43.2%**	**Pass**
*Pier Flexure (Comp.) (kip*ft)*	5183.57	3683.00	**67.7%**	**Pass**
Pier Compression (kip)	23390.64	109.51	**0.4%**	**Pass**
*Pad Flexure (kip*ft)*	5006.20	1250.46	**23.8%**	**Pass**
Pad Shear - 1-way (kips)	1224.67	158.18	**12.3%**	**Pass**
Pad Shear - 2-way (Comp) (ksi)	0.164	0.018	**10.6%**	**Pass**
*Flexural 2-way (Comp) (kip*ft)*	8182.13	2209.80	**25.7%**	**Pass**

**Rating per TIA-222-H Section 15.5*

Soil Rating*:	**43.2%**
Structural Rating*:	**67.7%**

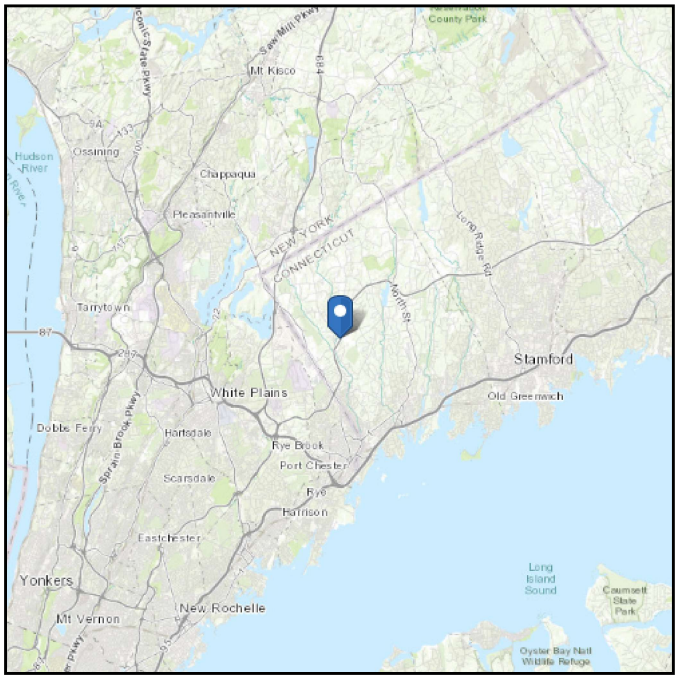
Version 3.3.0

ASCE 7 Hazards Report

Address:
No Address at This Location

Standard: ASCE/SEI 7-10
Risk Category: II
Soil Class: D - Stiff Soil

Elevation: 223.31 ft (NAVD 88)
Latitude: 41.066278
Longitude: -73.6715



Wind

Results:

Wind Speed:	116 Vmph
10-year MRI	76 Vmph
25-year MRI	85 Vmph
50-year MRI	90 Vmph
100-year MRI	96 Vmph
Data Source:	ASCE/SEI 7-10, Fig. 26.5-1A and Figs. CC-1–CC-4, incorporating errata of March 12, 2014
Date Accessed:	Wed Nov 27 2019

Value provided is 3-second gust wind speeds at 33 ft above ground for Exposure C Category, based on linear interpolation between contours. Wind speeds are interpolated in accordance with the 7-10 Standard. Wind speeds correspond to approximately a 7% probability of exceedance in 50 years (annual exceedance probability = 0.00143, MRI = 700 years).

Site is in a hurricane-prone region as defined in ASCE/SEI 7-10 Section 26.2. Glazed openings need not be protected against wind-borne debris.

Mountainous terrain, gorges, ocean promontories, and special wind regions should be examined for unusual wind conditions.

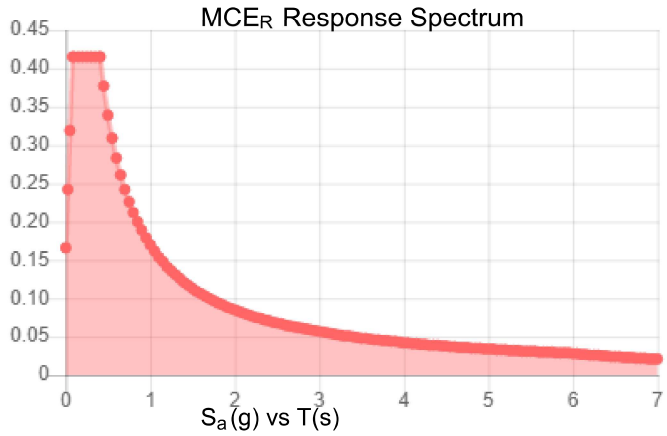
Seismic

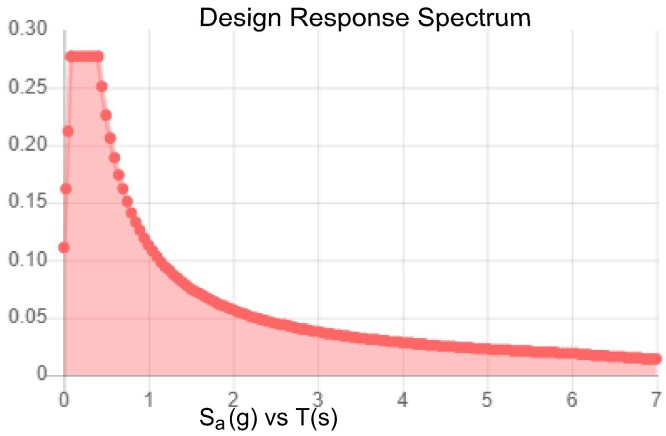
Site Soil Class: D - Stiff Soil

Results:

S_S :	0.261	S_{DS} :	0.277
S_1 :	0.071	S_{D1} :	0.113
F_a :	1.591	T_L :	6
F_v :	2.4	PGA :	0.154
S_{MS} :	0.415	PGA_M :	0.23
S_{M1} :	0.17	F_{PGA} :	1.492
		I_e :	1

Seismic Design Category B





Data Accessed: Wed Nov 27 2019

Date Source: USGS Seismic Design Maps based on ASCE/SEI 7-10, incorporating Supplement 1 and errata of March 31, 2013, and ASCE/SEI 7-10 Table 1.5-2. Additional data for site-specific ground motion procedures in accordance with ASCE/SEI 7-10 Ch. 21 are available from USGS.

Ice

Results:

Ice Thickness:	0.75 in.
Concurrent Temperature:	15 F
Gust Speed:	50 mph
Data Source:	Standard ASCE/SEI 7-10, Figs. 10-2 through 10-8
Date Accessed:	Wed Nov 27 2019

Ice thicknesses on structures in exposed locations at elevations higher than the surrounding terrain and in valleys and gorges may exceed the mapped values.

Values provided are equivalent radial ice thicknesses due to freezing rain with concurrent 3-second gust speeds, for a 50-year mean recurrence interval, and temperatures concurrent with ice thicknesses due to freezing rain. Thicknesses for ice accretions caused by other sources shall be obtained from local meteorological studies. Ice thicknesses in exposed locations at elevations higher than the surrounding terrain and in valleys and gorges may exceed the mapped values.

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Exhibit E

Mount Analysis

Date: **October 15, 2019**

Darcy Tarr
Crown Castle
3530 Toringdon Way, Suite 300
Charlotte, NC 28277
(704) 405-6589

Engineered Tower Solutions, PLLC
8120 Sheridan Blvd, Suite A-311
Westminster, CO 80003
(919) 782-2710
Bach.Tran@ets-pllc.com

Subject: **Mount Analysis Report**

Carrier Designation:
Verizon Wireless Equipment Change-Out
Carrier Site Number: NG59564
Carrier Site Name: W GREENWICH CT

Crown Castle Designation:
Crown Castle BU Number: 841290
Crown Castle Site Name: GREENWICH NORTH
Crown Castle JDE Job Number: 590342
Crown Castle Order Number: 504982 Rev. 0

Engineering Firm Designation:
ETS, PLLC Report Designation: 196498.14

Site Data:
363 Riversville Road, Greenwich, Fairfield County, CT 06831
Latitude: 41° 3' 58.60" Longitude: -73° 40' 17.40"

Structure Information:
Tower Height & Type: 160.0 ft Monopole
Mount Elevation: 140.0 ft
Mount Type: 13.0 ft Platform Mount

Dear Darcy Tarr,

Engineered Tower Solutions, PLLC is pleased to submit this **"Mount Analysis Report"** to determine the structural integrity of Verizon Wireless's antenna mounting system with the proposed appurtenance and equipment addition on the abovementioned supporting tower structure. Analysis of the existing supporting tower structure is to be completed by others and therefore is not part of this analysis. Analysis of the antenna mounting system as a tie-off point for fall protection or rigging is not part of this document.

The purpose of the analysis is to determine acceptability of the mount stress level. Based on our analysis we have determined the mount stress level to be:

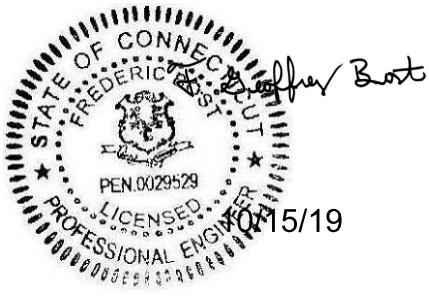
Platform Mount **Sufficient**

This analysis utilizes an ultimate 3-second gust wind speed of 120 mph as required by the 2018 Connecticut State Building Code. Applicable Standard references and design criteria are listed in Section 2 - Analysis Criteria.

Mount structural analysis prepared by: Bach S. Tran, EI

Respectfully Submitted by:

Frederic G. Bost, PE, CWI, GC
Owner/President
(919) 782-2710
Geoff.Bost@ets-pllc.com



10/15/19

TABLE OF CONTENTS

1) INTRODUCTION

This mount is an existing 13.0 ft Platform Mount. This mount is installed at the 140.0 ft elevation of the 160.0 ft Monopole. ETS, PLLC did not visit this site. A mapping and/or mount manufacturer drawings were not provided. Therefore, per direction of Crown Castle, photos of the tower were compared with other mounts within our database and a similar and comparable mount was used to perform this mount analysis.

2) ANALYSIS CRITERIA

Building Code:	2015 IBC
TIA-222 Revision:	TIA-222-H
Risk Category:	II
Ultimate Wind Speed:	120 mph
Exposure Category:	B
Topographic Factor at Base:	1.00
Topographic Factor at Mount:	1.00
Ice Thickness:	1.50 in
Wind Speed with Ice:	50 mph
Seismic S_s:	0.259
Seismic S_1:	0.070
Service Wind Speed:	30 mph
Man Live Load at Mid/End-Point:	250 lb
Man Live Load At Mount Pipes:	500 lb

Table 1 – Proposed Equipment Configuration

Mount Centerline (ft)	Antenna Centerline (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Mount / Modification Details
140.0	142.0	2	Decibel	DB844H80E-XY	13.0 ft Platform Mount
		4	RFS/Celwave	APL868013-42T0	
		6	Commscope	JAHH-65B-R3B	
		3	Samsung Telecommunications	CBRS	
		2	Commscope	RC2DC-3315-PF-48	
		3	Commscope	CBC78T-DS-43-2X	
		3	Samsung Telecommunications	20W CBRS	
		3	Samsung Telecommunications	RFV01U-D1A	
		3	Samsung Telecommunications	RFV01U-D2A	
		3	Commscope	BSAMNT-SBS-2-2	

3) ANALYSIS PROCEDURE

Table 2 – Documents Provided

Document	Remarks	Reference	Source
Carrier Application	Verizon Wireless	09/27/2019	CCI Sites
4-Structural Analysis Report	Jacobs Engineering Group, Inc	7708031	CCI Sites

3.1) Analysis Method

RISA-3D (version 17.0.2), a commercially available analysis software package, was used to create a three-dimensional model of the tower and calculate member stresses for various loading cases.

A tool internally developed, using Microsoft Excel, by ETS, PLLC was used to calculate wind loading on all appurtenances, dishes, and mount members for various load cases. Selected output from the analysis is included in Appendix B.

This analysis was performed in accordance with Crown Castle's ENG-SOW-10208 *Tower Mount Analysis* (Revision C).

3.2) Assumptions

1) ETS, PLLC did not visit this site. A mapping and/or mount manufacturer drawings were not provided. Therefore, per direction of Crown Castle, photos of the tower were compared with other mounts within our database and a similar and comparable mount was used to perform this mount analysis.
2) The antenna mounting system was properly fabricated, installed and maintained in good condition in accordance with its original design and manufacturer's specification.
3) The configuration of antennas, mounts and other appurtenances are as specified in Table 1 and the referenced drawings.
4) All member connections are assumed to have been designed to meet or exceed the load carrying capacity of the connected member unless otherwise specified in this report.
5) This Structural Analysis is not a condition assessment of the mount and is an evaluation of the theoretical structural capacity.
6) This analysis is based from the information supplied, and therefore, this report's results are as accurate as the supplied data.
7) Engineered Tower Solutions, PLLC makes no warranties, expressed and/or implied, in connection with this report, and disclaims any liability associated with material, fabrication, or erection of the mount. Engineered Tower Solutions, PLLC will not be held responsible from any consequential or incidental damages sustained by any person, firm, or organization as a result of the contents of this report. The maximum liability of Engineered Tower Solutions, PLLC pursuant to this report will be limited to the total fee received for compilation of this report.
8) It is the tower owner's responsibility to verify that the mount modeled and analyzed is the correct structure modeled.
9) The use of this report shall be limited to the purpose for which it was commissioned and may not be used for any other purposes without the written consent of Engineered Tower Solutions, PLLC.
10) Steel grades have been assumed as follows:

a)	Channel, Solid Round, Angle, Plate	ASTM A36 (Gr 36)
b)	HSS (Rectangular)	ASTM A500 (Gr B-46)
c)	HSS (Round)	ASTM A500 (Gr B-42)
d)	Pipe	ASTM A53 (Gr 35)
e)	Connection Bolts	ASTM A325
f)	U-Bolts	SAE 429 Gr.2

This analysis may be affected if any assumptions are not valid or have been made in error. Engineered Tower Solutions, PLLC should be notified to determine the effect on the structural integrity of the tower.

4) ANALYSIS RESULTS

Table 3 – Mount Component Stresses vs. Capacity (Platform Mount)

Notes	Component	Critical Member	Centerline (ft)	% Capacity	Pass/Fail
1	Face Mount – Horizontal	FM3	140.0	28.5	PASS
1	Mount Pipe – Vertical	MP13		81.7	PASS
1	Sidearm – Horizontal	SA2		73.3	PASS

Notes:

1) See additional documentation in "Appendix C – Software Analysis Output" for calculations supporting the % capacity consumed.

Tower Mount Rating (max from all components) =	81.7%

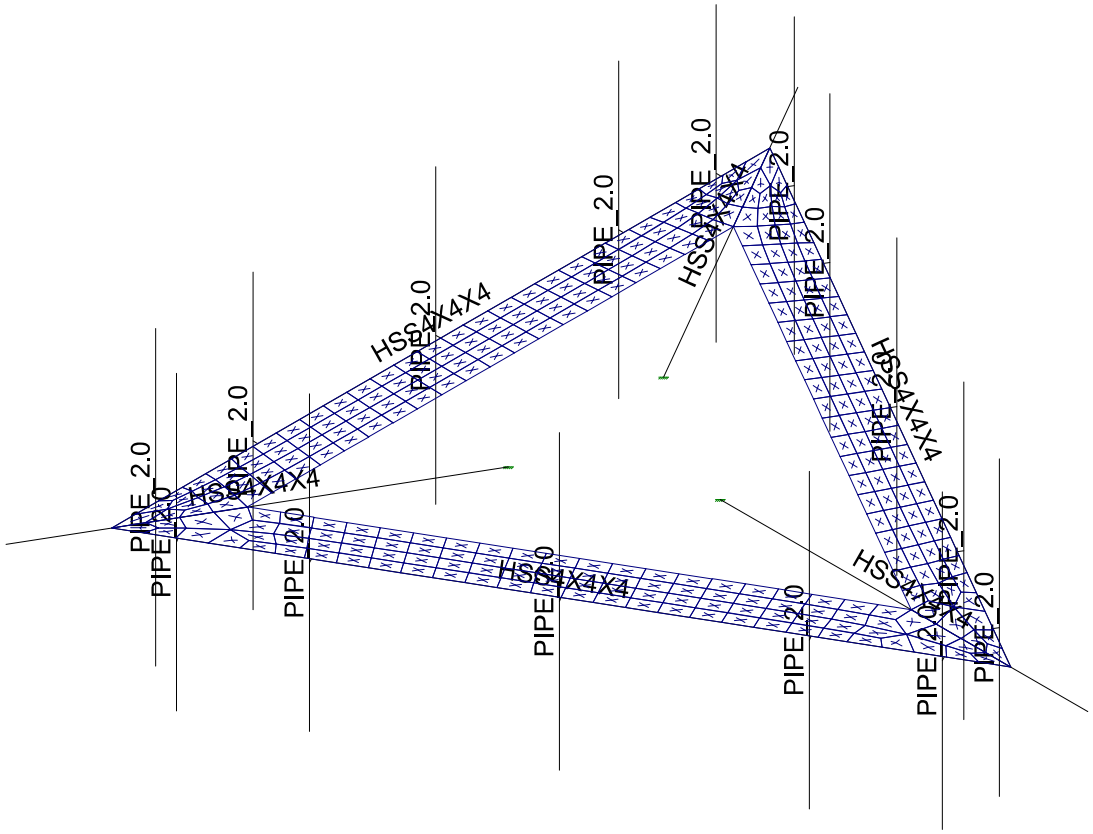
Verizon Mount Classification	M800R(550)-5[6]

4.1) Recommendations

The mount has sufficient capacity to carry the proposed loading configuration. No modifications are required at this time.

APPENDIX A

WIRE FRAME AND RENDERED MODELS



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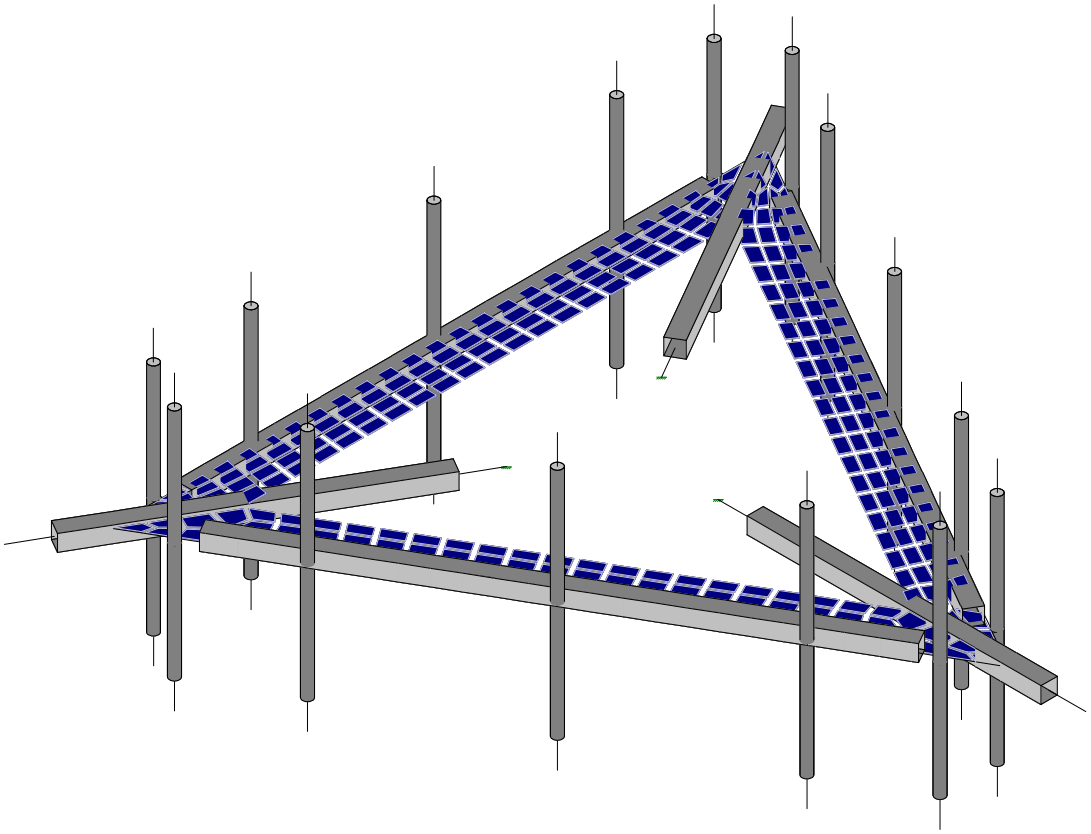

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APPENDIX B

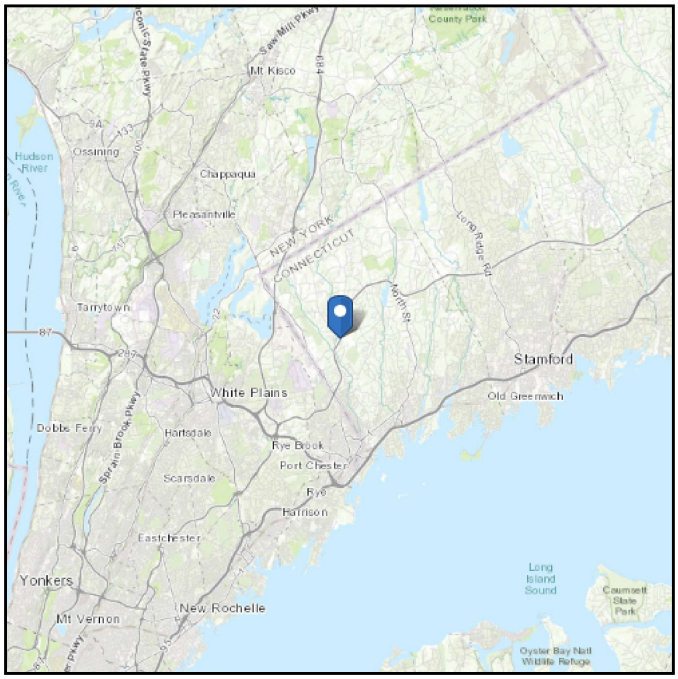
SOFTWARE INPUT CALCULATIONS

ASCE 7 Hazards Report

Address:
No Address at This Location

Standard: ASCE/SEI 7-10
Risk Category: II
Soil Class: D - Stiff Soil

Elevation: 223.31 ft (NAVD 88)
Latitude: 41.066278
Longitude: -73.6715



Wind

Results:

Wind Speed:	- Vmph	Local Code : 120 Vmph
10-year MRI	76 Vmph	
25-year MRI	85 Vmph	
50-year MRI	90 Vmph	
100-year MRI	96 Vmph	
Data Source:	ASCE/SEI 7-10, Fig. 26.5-1A and Figs. CC-1–CC-4, incorporating errata of March 12, 2014	
Date Accessed:	Tue Oct 15 2019	

Value provided is 3-second gust wind speeds at 33 ft above ground for Exposure C Category, based on linear interpolation between contours. Wind speeds are interpolated in accordance with the 7-10 Standard. Wind speeds correspond to approximately a 7% probability of exceedance in 50 years (annual exceedance probability = 0.00143, MRI = 700 years).

Site is in a hurricane-prone region as defined in ASCE/SEI 7-10 Section 26.2. Glazed openings need not be protected against wind-borne debris.

Mountainous terrain, gorges, ocean promontories, and special wind regions should be examined for unusual wind conditions.

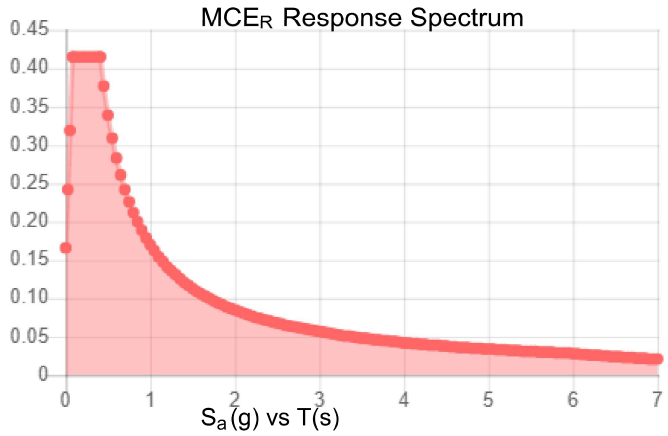
Seismic

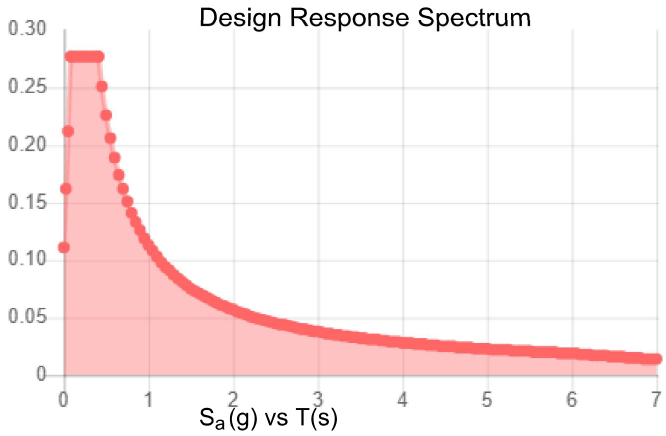
Site Soil Class: D - Stiff Soil

Results:

S_S :	0.259	S_{DS} :	0.277
S_1 :	0.070	S_{D1} :	0.113
F_a :	1.591	T_L :	6
F_v :	2.4	PGA :	0.154
S_{MS} :	0.415	PGA_M :	0.23
S_{M1} :	0.17	F_{PGA} :	1.492
		I_e :	1

Seismic Design Category B





Data Accessed: Tue Oct 15 2019

Date Source: USGS Seismic Design Maps based on ASCE/SEI 7-10, incorporating Supplement 1 and errata of March 31, 2013, and ASCE/SEI 7-10 Table 1.5-2. Additional data for site-specific ground motion procedures in accordance with ASCE/SEI 7-10 Ch. 21 are available from USGS.

Ice

Results:

Ice Thickness:	0.75 in.
Concurrent Temperature:	15 F
Gust Speed:	50 mph
Data Source:	Standard ASCE/SEI 7-10, Figs. 10-2 through 10-8
Date Accessed:	Tue Oct 15 2019

Ice thicknesses on structures in exposed locations at elevations higher than the surrounding terrain and in valleys and gorges may exceed the mapped values.

Values provided are equivalent radial ice thicknesses due to freezing rain with concurrent 3-second gust speeds, for a 50-year mean recurrence interval, and temperatures concurrent with ice thicknesses due to freezing rain. Thicknesses for ice accretions caused by other sources shall be obtained from local meteorological studies. Ice thicknesses in exposed locations at elevations higher than the surrounding terrain and in valleys and gorges may exceed the mapped values.

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ETS ENGINEERED TOWER SOLUTIONS, PLLC

Site Inputs	
Mount Support (Tower, or Building Support)?	Tower
Risk Category (TIA Table 2-1)	II
Exposure Category	B
Basic Wind Speed without Ice, V	120 mph
Basic Wind Speed with Ice, V	50 mph
Design of Ice, δ_{ice}	56 pcf
Design Ice Thickness, t	1.50 in
Basic Wind Speed (Maintenance)	30 mph
Maintenance Load, L_m	500 lb
Maintenance Load, L_v	250 lb
Height of Structure, h	160.0 ft
Mount Centerline, h_m	140.0 ft
Topographic Factor, K_{zt}	1.00
Rooftop Wind Speed-Up Factor, K_s	1.00
Mean Elevation of base of structure above sea level, z_s	223 ft
Ground Elevation Factor, K_e	0.99
Wind Direction Probability Factor, K_d	0.95
Gust Response Factor, G_h	1.00
Shielding Factor for Appurtenances, K_a	0.90
Interpolation	Linear

Seismic Design Input/Output	
0.259	Spectral response acceleration parameter at short periods, S_s
0.07	Spectral response acceleration parameter at a period of 1 second, S_1
D	Soil Site Class
1.593	Short-period site coefficient, F_a
2.400	Long-period site coefficient, F_v
0.275	Design spectral response acceleration parameter at short periods, S_{DS}
0.112	Design spectral response acceleration parameter at a period of 1 second, S_{D1}
2.00	Response modification coefficient, R
1.00	Earthquake amplification factor, A_s
1.00	Importance Factor
0.1375	Seismic Response Coefficient, C_s
Eh = 0.138 W	Total Seismic Shear Force, $E_h = \rho Q_E$ ($Q_E = \rho C_s W A_s$ & ρ = 1.0)
Ev = 0.055 D	Vertical Seismic Load Effect, $E_v = 0.2 S_{DS} D A_s$

Select Input File And Run | Hide Cells | Unhide Cells | Copy LC | Copy BLC

Output File Name: 841290 - GREENWICH NORTH_Loaded | Include MW: No

Mounting Pipe Properties and Forces

Mount Pipe	Mount Location	Vertical Offset (ft)	Length (in)	Diameter (in)	Weight (lbs)	Shape	Velocity Pressure Coefficient, K_z	C	Flow Pattern	Velocity Pressure (psf), q_z
P 2 SCH 40 x 72	MP1	0.00 ft	72.00 in	2.38 in	21.94 lb	Round	1.0880	24.7	Subcritical	37.79 psf
P 2 SCH 40 x 72	MP2	0.00 ft	72.00 in	2.38 in	21.94 lb	Round	1.0880	24.7	Subcritical	37.79 psf
P 2 SCH 40 x 72	MP3	0.00 ft	72.00 in	2.38 in	21.94 lb	Round	1.0880	24.7	Subcritical	37.79 psf
P 2 SCH 40 x 72	MP4	0.00 ft	72.00 in	2.38 in	21.94 lb	Round	1.0880	24.7	Subcritical	37.79 psf
P 2 SCH 40 x 72	MP5	0.00 ft	72.00 in	2.38 in	21.94 lb	Round	1.0880	24.7	Subcritical	37.79 psf
P 2 SCH 40 x 72	MP6	0.00 ft	72.00 in	2.38 in	21.94 lb	Round	1.0880	24.7	Subcritical	37.79 psf
P 2 SCH 40 x 72	MP7	0.00 ft	72.00 in	2.38 in	21.94 lb	Round	1.0880	24.7	Subcritical	37.79 psf
P 2 SCH 40 x 72	MP8	0.00 ft	72.00 in	2.38 in	21.94 lb	Round	1.0880	24.7	Subcritical	37.79 psf
P 2 SCH 40 x 72	MP9	0.00 ft	72.00 in	2.38 in	21.94 lb	Round	1.0880	24.7	Subcritical	37.79 psf
P 2 SCH 40 x 72	MP10	0.00 ft	72.00 in	2.38 in	21.94 lb	Round	1.0880	24.7	Subcritical	37.79 psf
P 2 SCH 40 x 72	MP11	0.00 ft	72.00 in	2.38 in	21.94 lb	Round	1.0880	24.7	Subcritical	37.79 psf
P 2 SCH 40 x 72	MP12	0.00 ft	72.00 in	2.38 in	21.94 lb	Round	1.0880	24.7	Subcritical	37.79 psf
P 2 SCH 40 x 72	MP13	0.00 ft	72.00 in	2.38 in	21.94 lb	Round	1.0880	24.7	Subcritical	37.79 psf
P 2 SCH 40 x 72	MP14	0.00 ft	72.00 in	2.38 in	21.94 lb	Round	1.0880	24.7	Subcritical	37.79 psf
P 2 SCH 40 x 72	MP15	0.00 ft	72.00 in	2.38 in	21.94 lb	Round	1.0880	24.7	Subcritical	37.79 psf

Wind Force - No Ice (Front) / Wind Force - No Ice (Side)

Mount Location	Antenna Offset (ft)	Antenna Length (in)	Top Protrusion (in)	Base Protrusion (in)	C_A	A_A (ft²)	C_AA_A (ft²)	Design Wind Force (lbf), F_A	Aspect Ratio	C_A	A_A (ft²)	C_AA_A (ft²)	Design Wind Force (lbf), F_A
MP1	2.00 ft	48.00 in	-12.00 in	36.00 in	1.00	0.594	0.594	22.44 lb	30.3	1.20	1.188	1.425	53.86 lb
MP2	2.00 ft	72.00 in	-24.00 in	24.00 in	1.00	0.396	0.396	14.96 lb	30.3	1.20	1.188	1.425	53.86 lb
MP3	2.00 ft	48.00 in	-12.00 in	36.00 in	1.00	0.594	0.594	22.44 lb	30.3	1.20	1.188	1.425	53.86 lb
MP4	0.00 ft	0.00 in	36.00 in	36.00 in	1.00	1.188	1.188	44.88 lb	30.3	1.20	1.188	1.425	53.86 lb
MP5	2.00 ft	16.16 in	3.92 in	51.92 in	1.00	0.921	0.921	34.81 lb	30.3	1.20	1.188	1.425	53.86 lb
MP6	2.00 ft	48.00 in	-12.00 in	36.00 in	1.00	0.594	0.594	22.44 lb	30.3	1.20	1.188	1.425	53.86 lb
MP7	2.00 ft	72.00 in	-24.00 in	24.00 in	1.00	0.396	0.396	14.96 lb	30.3	1.20	1.188	1.425	53.86 lb
MP8	2.00 ft	48.00 in	-12.00 in	36.00 in	1.00	0.594	0.594	22.44 lb	30.3	1.20	1.188	1.425	53.86 lb
MP9	0.00 ft	0.00 in	36.00 in	36.00 in	1.00	1.188	1.188	44.88 lb	30.3	1.20	1.188	1.425	53.86 lb
MP10	2.00 ft	16.16 in	3.92 in	51.92 in	1.00	0.921	0.921	34.81 lb	30.3	1.20	1.188	1.425	53.86 lb
MP11	2.00 ft	48.00 in	-12.00 in	36.00 in	1.00	0.594	0.594	22.44 lb	30.3	1.20	1.188	1.425	53.86 lb
MP12	2.00 ft	48.00 in	-12.00 in	36.00 in	1.00	0.594	0.594	22.44 lb	30.3	1.20	1.188	1.425	53.86 lb
MP13	2.00 ft	72.00 in	-24.00 in	24.00 in	1.00	0.396	0.396	14.96 lb	30.3	1.20	1.188	1.425	53.86 lb
MP14	0.00 ft	0.00 in	36.00 in	36.00 in	1.00	1.188	1.188	44.88 lb	30.3	1.20	1.188	1.425	53.86 lb
MP15	2.00 ft	16.16 in	3.92 in	51.92 in	1.00	0.921	0.921	34.81 lb	30.3	1.20	1.188	1.425	53.86 lb

Force Coefficients - Ice / Wind Force - Ice (Front) / Wind Force - Ice (Side)

Mount Location	Height Escalation Factor, K_{iz}	Design Ice Thickness (in), t_{iz}	Flow Pattern	Velocity Pressure (psf), q_z	Ice Weight (lbs)	C_A	A_A (ft²)	C_AA_A (ft²)	Design Wind Force (lbf), F_A	Aspect Ratio	C_A	A_A (ft²)	C_AA_A (ft²)	Design Wind Force (lbf), F_A
MP1	1.16	1.733 in	Subcritical	6.56 psf	52.20 lb	1.00	1.601	1.601	10.50 lb	12.9	0.93	3.061	2.852	18.71 lb
MP2	1.16	1.733 in	Subcritical	6.56 psf	52.20 lb	1.00	1.114	1.114	7.31 lb	12.9	0.93	3.061	2.852	18.71 lb
MP3	1.16	1.733 in	Subcritical	6.56 psf	52.20 lb	1.00	1.601	1.601	10.50 lb	12.9	0.93	3.061	2.852	18.71 lb
MP4	1.16	1.733 in	Subcritical	6.56 psf	52.20 lb	1.00	3.061	3.061	20.09 lb	12.9	0.93	3.061	2.852	18.71 lb
MP5	1.16	1.733 in	Subcritical	6.56 psf	52.20 lb	1.00	2.406	2.406	15.79 lb	12.9	0.93	3.061	2.852	18.71 lb
MP6	1.16	1.733 in	Subcritical	6.56 psf	52.20 lb	1.00	1.601	1.601	10.50 lb	12.9	0.93	3.061	2.852	18.71 lb
MP7	1.16	1.733 in	Subcritical	6.56 psf	52.20 lb	1.00	1.114	1.114	7.31 lb	12.9	0.93	3.061	2.852	18.71 lb
MP8	1.16	1.733 in	Subcritical	6.56 psf	52.20 lb	1.00	1.601	1.601	10.50 lb	12.9	0.93	3.061	2.852	18.71 lb
MP9	1.16	1.733 in	Subcritical	6.56 psf	52.20 lb	1.00	3.061	3.061	20.09 lb	12.9	0.93	3.061	2.852	18.71 lb
MP10	1.16	1.733 in	Subcritical	6.56 psf	52.20 lb	1.00	2.406	2.406	15.79 lb	12.9	0.93	3.061	2.852	18.71 lb
MP11	1.16	1.733 in	Subcritical	6.56 psf	52.20 lb	1.00	1.601	1.601	10.50 lb	12.9	0.93	3.061	2.852	18.71 lb
MP12	1.16	1.733 in	Subcritical	6.56 psf	52.20 lb	1.00	1.601	1.601	10.50 lb	12.9	0.93	3.061	2.852	18.71 lb
MP13	1.16	1.733 in	Subcritical	6.56 psf	52.20 lb	1.00	1.114	1.114	7.31 lb	12.9	0.93	3.061	2.852	18.71 lb
MP14	1.16	1.733 in	Subcritical	6.56 psf	52.20 lb	1.00	3.061	3.061	20.09 lb	12.9	0.93	3.061	2.852	18.71 lb
MP15	1.16	1.733 in	Subcritical	6.56 psf	52.20 lb	1.00	2.406	2.406	15.79 lb	12.9	0.93	3.061	2.852	18.71 lb

Appurtenance Properties and Forces

Antenna Information

Appurtenance	Appurtenance Type	Mount Location	Quantity	Vertical Offset (ft)	Allow Shielding	Length (in)	Rotate Width/Depth	Width (in)	Depth (in)	Weight (lbs)	Shape
RFS/CELWAVE / APL868013-42T0	Antenna	MP1	1	2.00 ft	No	48.00 in	No	6.00 in	8.00 in	6.32 lb	Flat
COMMSCOPE / CBC78TDS-43-2X	TME	MP1	1	2.00 ft	No	6.40 in	No	6.90 in	9.60 in	32.00 lb	Flat
COMMSCOPE / JAHH-65B-R3B	Antenna	MP2	2	2.00 ft	No	72.00 in	No	13.80 in	8.20 in	63.30 lb	Flat
RFS/CELWAVE / APL868013-42T0	Antenna	MP3	1	2.00 ft	No	48.00 in	No	6.00 in	8.00 in	6.32 lb	Flat
SAMSUNG / RFV01U-D1A	TME	MP4	1	2.00 ft	No	15.00 in	No	15.00 in	10.00 in	84.40 lb	Flat
SAMSUNG / RFV01U-D2A	TME	MP4	1	2.00 ft	No	15.00 in	No	15.00 in	8.10 in	70.30 lb	Flat
SAMSUNG / CBRS	Antenna	MP5	1	2.00 ft	No	16.16 in	No	11.39 in	5.45 in	23.14 lb	Flat
SAMSUNG / 20W CBRS	TME	MP5	1	2.00 ft	No	12.10 in	No	8.50 in	4.10 in	18.64 lb	Flat
RFS/CELWAVE / APL868013-42T0	Antenna	MP6	1	2.00 ft	No	48.00 in	No	6.00 in	8.00 in	6.32 lb	Flat
COMMSCOPE / CBC78TDS-43-2X	TME	MP6	1	2.00 ft	No	6.40 in	No	6.90 in	9.60 in	32.00 lb	Flat
COMMSCOPE / JAHH-65B-R3B	Antenna	MP7	2	2.00 ft	No	72.00 in	No	13.80 in	8.20 in	63.30 lb	Flat
RFS/CELWAVE / APL868013-42T0	Antenna	MP8	1	2.00 ft	No	48.00 in	No	6.00 in	8.00 in	6.32 lb	Flat
SAMSUNG / RFV01U-D1A	TME	MP9	1	2.00 ft	No	15.00 in	No	15.00 in	10.00 in	84.40 lb	Flat
SAMSUNG / RFV01U-D2A	TME	MP9	1	2.00 ft	No	15.00 in	No	15.00 in	8.10 in	70.30 lb	Flat
SAMSUNG / CBRS	Antenna	MP10	1	2.00 ft	No	16.16 in	No	11.39 in	5.45 in	23.14 lb	Flat
SAMSUNG / 20W CBRS	TME	MP10	1	2.00 ft	No	12.10 in	No	8.50 in	4.10 in	18.64 lb	Flat
DECIBEL / DB844H80E-XY	Antenna	MP11	1	2.00 ft	No	48.00 in	No	6.50 in	8.00 in	14.00 lb	Flat
COMMSCOPE / CBC78TDS-43-2X	TME	MP11	1	2.00 ft	No	6.40 in	No	6.90 in	9.60 in	32.00 lb	Flat
COMMSCOPE / RC2DC-3315-PF-48	TME	MP11	1	2.00 ft	No	28.93 in	No	15.73 in	10.30 in	32.00 lb	Flat
DECIBEL / DB844H80E-XY	Antenna	MP12	1	2.00 ft	No	48.00 in	No	6.50 in	8.00 in	14.00 lb	Flat
COMMSCOPE / RC2DC-3315-PF-48	TME	MP12	1	2.00 ft	No	28.93 in	No	15.73 in	10.30 in	32.00 lb	Flat
COMMSCOPE / JAHH-65B-R3B	Antenna	MP13	2	2.00 ft	No	72.00 in	No	13.80 in	8.20 in	63.30 lb	Flat
SAMSUNG / RFV01U-D1A	TME	MP14	1	2.00 ft	No	15.00 in	No	15.00 in	10.00 in	84.40 lb	Flat
SAMSUNG / RFV01U-D2A	TME	MP14	1	2.00 ft	No	15.00 in	No	15.00 in	8.10 in	70.30 lb	Flat
SAMSUNG / CBRS	Antenna	MP15	1	2.00 ft	No	16.16 in	No	11.39 in	5.45 in	23.14 lb	Flat
SAMSUNG / 20W CBRS	TME	MP15	1	2.00 ft	No	12.10 in	No	8.50 in	4.10 in	18.64 lb	Flat

Force Coefficients - No Ice / Wind Force - No Ice (Front) / Wind Force - No Ice (Side)

Appurtenance	Mount Location	Velocity Pressure Coefficient, K_z	C	Flow Pattern	Velocity Pressure (psf), q_z	Antenna Width (in)	Side Protrusion (in)	% Shielded	Aspect Ratio	C_A	A_A (ft²)	C_AA_A (ft²)	Design Wind Force (lbf), F_A	Aspect Ratio	C_A	A_A (ft²)	C_AA_A (ft²)	Design Wind Force (lbf), F_A
RFS/CELWAVE / APL868013-42T0	MP1	1.0924	62.5	Subcritical	37.95 psf	6.00 in	0.00 in	0.0%	8.0	1.43	2.000	2.867	108.78 lb	6.0	1.36	2.667	3.615	137.17 lb
COMMSCOPE / CBC78TDS-43-2X	MP1	1.0924	71.8	Subcritical	37.95 psf	6.00 in	0.90 in	0.0%	0.9	1.20	0.307	0.368	13.96 lb	0.7	1.20	0.427	0.512	19.43 lb
COMMSCOPE / JAHH-65B-R3B	MP2	1.0924	143.7	Subcritical	37.95 psf	13.80 in	0.00 in	0.0%	5.2	1.32	6.900	10.372	802.36 lb	8.8	1.46	4.100	6.106	231.71 lb
RFS/CELWAVE / APL868013-42T0	MP3	1.0924	62.5	Subcritical	37.95 psf	6.00 in	0.00 in	0.0%	8.0	1.43	2.000	2.867	108.78 lb	6.0	1.36	2.667	3.615	137.17 lb
SAMSUNG / RFV01U-D1A	MP4	1.0924	156.1	Subcritical	37.95 psf	0.00 in	15.00 in	0.0%	1.0	1.20	1.563	1.875	71.15 lb	1.5	1.20	1.042	1.250	47.43 lb
SAMSUNG / RFV01U-D2A	MP4	1.0924	156.1	Subcritical	37.95 psf	0.00 in	15.00 in	0.0%	1.0	1.20	1.563	1.875	71.15 lb	1.9	1.20	0.844	1.013	38.42 lb
SAMSUNG / CBRS	MP5	1.0924	118.6	Subcritical	37.95 psf	11.39 in	0.00 in	0.0%	1.4	1.20	1.278	1.534	58.21 lb	3.0	1.22	0.612	0.747	28.33 lb
SAMSUNG / 20W CBRS	MP5	1.0924	88.5	Subcritical	37.95 psf	11.39 in	0.00 in	0.0%	1.4	1.20	0.714	0.837	32.52 lb	3.0	1.22	0.345	0.420	15.95 lb
RFS/CELWAVE / APL868013-42T0	MP6	1.0924	62.5	Subcritical	37.95 psf	6.00 in	0.00 in	0.0%	8.0	1.43	2.000	2.867	108.78 lb	6.0	1.36	2.667	3.615	137.17 lb
COMMSCOPE / CBC78TDS-43-2X	MP6	1.0924	71.8	Subcritical	37.95 psf	6.00 in	0.90 in	0.0%	0.9	1.20	0.307	0.368	13.96 lb	0.7	1.20	0.427	0.512	19.43 lb
COMMSCOPE / JAHH-65B-R3B	MP7	1.0924	143.7	Subcritical	37.95 psf	13.80 in	0.00 in	0.0%	5.2	1.32	6.900	10.372	802.36 lb	8.8	1.46	4.100	6.106	231.71 lb
RFS/CELWAVE / APL868013-42T0	MP8	1.0924	62.5	Subcritical	37.95 psf	6.00 in	0.00 in	0.0%	8.0	1.43	2.000	2.867	108.78 lb	6.0	1.36	2.667	3.615	137.17 lb
SAMSUNG / RFV01U-D1A	MP9	1.0924	156.1	Subcritical	37.95 psf	0.00 in	15.00 in	0.0%	1.0	1.20	1.563	1.875	71.15 lb	1.5	1.20	1.042	1.250	47.43 lb
SAMSUNG / RFV01U-D2A	MP9	1.0924	156.1	Subcritical	37.95 psf	0.00 in	15.00 in	0.0%	1.0	1.20	1.563	1.875	71.15 lb	1.9	1.20	0.844	1.013	38.42 lb
SAMSUNG / CBRS	MP10	1.0924	118.6	Subcritical	37.95 psf	11.39 in	0.00 in	0.0%	1.4	1.20	1.278	1.534	58.21 lb	3.0	1.22	0.612	0.747	28.33 lb
SAMSUNG / 20W CBRS	MP10	1.0924	88.5	Subcritical	37.95 psf	11.39 in	0.00 in	0.0%	1.4	1.20	0.714	0.837	32.52 lb	3.0	1.22	0.345	0.420	15.95 lb
DECIBEL / DB844H80E-XY	MP11	1.0924	67.7	Subcritical	37.95 psf	6.50 in	0.00 in	0.0%	7.4	1.41	2.167	3.061	116.16 lb	6.0	1.36	2.667	3.615	137.17 lb
COMMSCOPE / CBC78TDS-43-2X	MP11	1.0924	71.8	Subcritical	37.95 psf	6.50 in	0.40 in	0.0%	0.9	1.20	0.307	0.368	13.96 lb	0.7	1.20	0.427	0.512	19.43 lb
COMMSCOPE / RC2DC-3315-PF-48	MP11	1.0924	163.7	Subcritical	37.95 psf	6.50 in	9.23 in	0.0%	1.8	1.20	3.160	3.792	143.91 lb	2.8	1.21	2.069	2.512	95.31 lb
DECIBEL / DB844H80E-XY	MP12	1.0924	67.7	Subcritical	37.95 psf	6.50 in	0.00 in	0.0%	7.4	1.41	2.167	3.061	116.16 lb	6.0	1.36	2.667	3.615	137.17 lb
COMMSCOPE / RC2DC-3315-PF-48	MP12	1.0924	163.7	Subcritical	37.95 psf	6.50 in	9.23 in	0.0%	1.8	1.20	3.160	3.792	143.91 lb	2.8	1.21	2.069	2.512	95.31 lb
COMMSCOPE / JAHH-65B-R3B	MP13	1.0924	143.7	Subcritical	37.95 psf	13.80 in	0.00 in	0.0%	5.2	1.32	6.900	10.372	802.36 lb	8.8	1.46	4.100	6.106	231.71 lb
SAMSUNG / RFV01U-D1A	MP14	1.0924	156.1	Subcritical	37.95 psf	0.00 in	15.00 in	0.0%	1.0	1.20	1.563	1.875	71.15 lb	1.5	1.20	1.042	1.250	47.43 lb
SAMSUNG / RFV01U-D2A	MP14	1.0924	156.1	Subcritical	37.95 psf	0.00 in	15.00 in	0.0%	1.0	1.20	1.563	1.875	71.15 lb	1.9	1.20	0.844	1.013	38.42 lb
SAMSUNG / CBRS	MP15	1.0924	118.6	Subcritical	37.95 psf	11.39 in	0.00 in	0.0%	1.4	1.20	1.278	1.534	58.21 lb	3.0	1.22	0.612	0.747	28.33 lb
SAMSUNG / 20W CBRS	MP15	1.0924	88.5	Subcritical	37.95 psf	11.39 in	0.00 in	0.0%	1.4	1.20	0.714	0.837	32.52 lb	3.0	1.22	0.345	0.420	15.95 lb

Force Coefficients - Ice / Wind Force - Ice (Front) / Wind Force - Ice (Side)

Appurtenance	Mount Location	Height Escalation Factor, K_{iz}	Design Ice Thickness (in), t_{iz}	Flow Pattern	Velocity Pressure (psf), q_z	Side Protrusion Ice (in)	Ice Weight (lbs)	Aspect Ratio	Apprt. C_A	Ice C_A	Apprt. A_A (ft²)	Ice A_A (ft²)	C_AA_A (ft²)	Design Wind Force (lbf), F_A	Aspect Ratio	Apprt. C_A	Ice C_A	A_A (ft²)	C_AA_A (ft²)	Design Wind Force (lbf), F_A
RFS/CELWAVE / APL868013-42T0	MP1	1.16	1.736 in	Subcritical	6.588 psf	0.00 in	99.54 lb	5.4	1.33	0.77	2.00	1.241	3.610	23.79 lb	4.5	1.3	0.74	1.434	4.502	29.66 lb
COMMSCOPE / CBC78TDS-43-2X	MP1	1.16	1.736 in	Subcritical	6.588 psf	0.00 in	15.33 lb	1.0	1.20	0.70	0.31	0.238	0.535	3.52 lb	0.8	1.2	0.70	0.469	0.841	5.54 lb
COMMSCOPE / JAHH-65B-R3B	MP2	1.16	1.736 in	Subcritical	6.588 psf	0.00 in	462.40 lb	4.4	1.28	0.74	6.90	1.819	13.882	182.91 lb	6.5	1.4	0.79	2.017	9.200	60.61 lb
RFS/CELWAVE / APL868013-42T0	MP3	1.16	1.736 in	Subcritical	6.588 psf	0.00 in	99.54 lb	5.4	1.33	0.77	2.00	1.241	3.610	23.79 lb	4.5	1.3	0.74	1.434	4.502	29.66 lb
SAMSUNG / RFV01U-D1A	MP4	1.16	1.736 in	Subcritical	6.588 psf	11.53 in	52.39 lb	1.0	1.20	0.70	1.56	0.723	2.381	15.69 lb	1.4	1.2	0.70	0.686	1.730	11.40 lb
SAMSUNG / RFV01U-D2A	MP4	1.16	1.736 in	Subcritical	6.588 psf	11.53 in	49.79 lb	1.0	1.20	0.70	1.56	0.723	2.381	15.69 lb	1.6	1.2	0.70	0.641	1.461	9.62 lb
SAMSUNG / CBRS	MP5	1.16	1.736 in	Subcritical	6.588 psf	0.00 in	41.01 lb	1.3	1.20	0.70	1.28	0.473	1.865	12.29 lb	2.2	1.2	0.70	0.605	1.157	7.62 lb
SAMSUNG / 20W CBRS	MP5	1.16	1.736 in	Subcritical	6.588 psf	0.00 in	23.89 lb	1.3	1.20	0.70	0.71	0.375	1.120	7.38 lb	2.1	1.2	0.70	0.474	0.745	4.91 lb
RFS/CELWAVE / APL868013-42T0	MP6	1.16	1.736 in	Subcritical	6.588 psf	0.00 in	99.54 lb	5.4	1.33	0.77	2.00	1.241	3.610	23.79 lb	4.5	1.3	0.74	1.434	4.502	29.66 lb
COMMSCOPE / CBC78TDS-43-2X	MP6	1.16	1.736 in	Subcritical	6.588 psf	0.00 in	15.33 lb	1.0	1.20	0.70	0.31	0.238	0.535	3.52 lb	0.8	1.2	0.70	0.469	0.841	5.54 lb
COMMSCOPE / JAHH-65B-R3B	MP7	1.16	1.736 in	Subcritical	6.588 psf	0.00 in	462.40 lb	4.4	1.28	0.74	6.90	1.819	13.882	182.91 lb	6.5	1.4	0.79	2.017	9.200	60.61 lb
RFS/CELWAVE / APL868013-42T0	MP8	1.16	1.736 in	Subcritical	6.588 psf	0.00 in	99.54 lb	5.4	1.33	0.77	2.00	1.241	3.610	23.79 lb	4.5	1.3	0.74	1.434	4.502	29.66 lb
SAMSUNG / RFV01U-D1A	MP9	1.16	1.736 in	Subcritical	6.588 psf	11.53 in	52.39 lb	1.0	1.20	0.70	1.56	0.723	2.381	15.69 lb	1.4	1.2	0.70	0.686	1.730	11.40 lb
SAMSUNG / RFV01U-D2A	MP9	1.16	1.736 in	Subcritical	6.588 psf	11.53 in	49.79 lb	1.0	1.20	0.70	1.56	0.723	2.381	15.69 lb	1.6	1.2	0.70	0.641	1.461	9.62 lb
SAMSUNG / CBRS	MP10	1.16	1.736 in	Subcritical	6.588 psf	0.00 in	41.01 lb	1.3	1.20	0.70	1.28	0.473	1.865	12.29 lb	2.2	1.2	0.70	0.605	1.157	7.62 lb
SAMSUNG / 20W CBRS	MP10	1.16	1.736 in	Subcritical	6.588 psf	0.00 in	23.89 lb	1.3	1.20	0.70	0.71	0.375	1.120	7.38 lb	2.1	1.2	0.70	0.474	0.745	4.91 lb
DECIBEL / DB844H80E-XY	MP11	1.16	1.736 in	Subcritical	6.588 psf	0.00 in	102.15 lb	5.2	1.32	0.76	2.17	1.241	3.798	25.02 lb	4.5	1.3	0.74	1.434	4.502	29.66 lb
COMMSCOPE / CBC78TDS-43-2X	MP11	1.16	1.736 in	Subcritical	6.588 psf	0.00 in	15.33 lb	1.0	1.20	0.70	0.31	0.238	0.535	3.52 lb	0.8	1.2	0.70	0.469	0.841	5.54 lb
COMMSCOPE / RC2DC-3315-PF-48	MP11	1.16	1.736 in	Subcritical	6.588 psf	5.76 in	104.99 lb	1.7	1.20	0.70	3.16	0.920	4.436	29.23 lb	2.4	1.2	0.70	1.029	3.204	21.11 lb
DECIBEL / DB844H80E-XY	MP12	1.16	1.736 in	Subcritical	6.588 psf	0.00 in	102.15 lb	5.2	1.32	0.76	2.17	1.241	3.798	25.02 lb	4.5	1.3	0.74	1.434	4.502	29.66 lb
COMMSCOPE / RC2DC-3315-PF-48	MP12	1.16	1.736 in	Subcritical	6.588 psf	5.76 in	104.99 lb	1.7	1.20	0.70	3.16	0.920	4.436	29.23 lb	2.4	1.2	0.70	1.029	3.204	21.11 lb
COMMSCOPE / JAHH-65B-R3B	MP13	1.16	1.736 in	Subcritical	6.588 psf	0.00 in	462.40 lb	4.4	1.28	0.74	6.90	1.819	13.882	182.91 lb	6.5	1.4	0.79	2.017	9.200	60.61 lb
SAMSUNG / RFV01U-D1A	MP14	1.16	1.736 in	Subcritical	6.588 psf	11.53 in	52.39 lb	1.0	1.20	0.70	1.56	0.723	2.381	15.69 lb	1.4	1.2	0.70	0.686	1.730	11.40 lb
SAMSUNG / RFV01U-D2A	MP14	1.16	1.736 in	Subcritical	6.588 psf	11.53 in	49.79 lb	1.0	1.20	0.70	1.56	0.723	2.381	15.69 lb	1.6	1.2	0.70	0.641	1.461	9.62 lb
SAMSUNG / CBRS	MP15	1.16	1.736 in	Subcritical	6.588 psf	0.00 in	41.01 lb	1.3	1.20	0.70	1.28	0.473	1.865	12.29 lb	2.2	1.2	0.70	0.605	1.157	7.62 lb
SAMSUNG / 20W CBRS	MP15	1.16	1.736 in	Subcritical	6.588 psf	0.00 in	23.89 lb	1.3	1.20	0.70	0.71	0.375	1.120	7.38 lb	2.1	1.2	0.70	0.474	0.745	4.91 lb

Mount Pipe Point Loads

Mount Location	No Ice - TME & Mount: Dead Load	No Ice - TME & Mount: Normal K_aEPA_N	No Ice - TME & Mount: Transverse K_aEPA_T	Ice - TME & Mount: Ice Load	Ice - TME & Mount: Normal $K_aEPA_{N,Ice}$	Ice - TME & Mount: Transverse $K_aEPA_{T,Ice}$	No Ice - Antenna: Normal K_aEPA_N	No Ice - Antenna: Transverse K_aEPA_T	Ice - Antenna: Normal $K_aEPA_{N,Ice}$	Ice - Antenna: Transverse $K_aEPA_{T,Ice}$
MP1	38.3 lb	32.8 lb	66.0 lb	167.1 lb	12.6 lb	21.8 lb	24.5 lb/ft	30.9 lb/ft	5.4 lb/ft	6.7 lb/ft
MP2	126.6 lb	13.5 lb	48.3 lb	977.0 lb	6.6 lb	16.8 lb	120.4 lb/ft	34.8 lb/ft	27.4 lb/ft	9.1 lb/ft
MP3	6.3 lb	20.2 lb	48.3 lb	151.7 lb	9.5 lb	16.8 lb	24.5 lb/ft	30.9 lb/ft	5.4 lb/ft	6.7 lb/ft
MP4	154.7 lb	168.5 lb	125.7 lb	154.4 lb	46.3 lb	35.8 lb	0.0 lb/ft	0.0 lb/ft	0.0 lb/ft	0.0 lb/ft
MP5	41.8 lb	60.6 lb	62.8 lb	117.1 lb	20.8 lb	21.3 lb	38.9 lb/ft	18.9 lb/ft	8.2 lb/ft	5.1 lb/ft
MP6	38.3 lb	32.8 lb	66.0 lb	167.1 lb	12.6 lb	21.8 lb	24.5 lb/ft	30.9 lb/ft	5.4 lb/ft	6.7 lb/ft
MP7	126.6 lb	13.5 lb	48.3 lb	977.0 lb	6.6 lb	16.8 lb	120.4 lb/ft	34.8 lb/ft	27.4 lb/ft	9.1 lb/ft
MP8	6.3 lb	20.2 lb	48.3 lb	151.7 lb	9.5 lb	16.8 lb	24.5 lb/ft	30.9 lb/ft	5.4 lb/ft	6.7 lb/ft
MP9	154.7 lb	168.5 lb	125.7 lb	154.4 lb	46.3 lb	35.8 lb	0.0 lb/ft	0.0 lb/ft	0.0 lb/ft	0.0 lb/ft
MP10	41.8 lb	60.6 lb	62.8 lb	117.1 lb	20.8 lb	21.3 lb	38.9 lb/ft	18.9 lb/ft	8.2 lb/ft	5.1 lb/ft
MP11	78.0 lb	162.3 lb	151.7 lb	274.7 lb	38.9 lb	40.8 lb	26.1 lb/ft	30.9 lb/ft	5.6 lb/ft	6.7 lb/ft
MP12	46.0 lb	149.7 lb	134.2 lb	259.3 lb	35.8 lb	35.8 lb	26.1 lb/ft	30.9 lb/ft	5.6 lb/ft	6.7 lb/ft
MP13	126.6 lb	13.5 lb	48.3 lb	977.0 lb	6.6 lb	16.8 lb	120.4 lb/ft	34.8 lb/ft	27.4 lb/ft	9.1 lb/ft
MP14	154.7 lb	168.5 lb	125.7 lb	154.4 lb	46.3 lb	35.8 lb	0.0 lb/ft	0.0 lb/ft	0.0 lb/ft	0.0 lb/ft
MP15	41.8 lb	60.6 lb	62.8 lb	117.1 lb	20.8 lb	21.3 lb	38.9 lb/ft	18.9 lb/ft	8.2 lb/ft	5.1 lb/ft

Member Distributed Loads

Mount Members	Vertical Offset (ft)	Width/Diameter (in)	Depth/Diameter (in)	Length (in)	Shape	Velocity Pressure Coefficient, K_z	C_A	Velocity Pressure (psf), q_z	K_a * Force / Length, No Ice	Flow Pattern	Height Escalation Factor, K_{iz}	Design Ice Thickness (in), t_{iz}	Ice C_A	Velocity Pressure (psf), q_z	Ice Weight (plf)	K_a * Force / Length, Ice
HSS4X4X1/4	0.0 ft	4.000 in	4.000 in	162.0 in	HSS	1.09	1.230	37.79 psf	14.2 lb/ft	Subcritical	1.155	1.733 in	1.14	6.561	15.6 lb/ft	4.4 lb/ft

APPENDIX C

SOFTWARE ANALYSIS OUTPUT

Member Primary Data

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
1	FM1	N1	N2			HSS4X4X4	None	None	A500 Gr.B...	Typical
2	FM2	N3	N1			HSS4X4X4	None	None	A500 Gr.B...	Typical
3	FM3	N2	N3			HSS4X4X4	None	None	A500 Gr.B...	Typical
4	SA2	N9	N10			HSS4X4X4	None	None	A500 Gr.B...	Typical
5	SA3	N7	N8			HSS4X4X4	None	None	A500 Gr.B...	Typical
6	SA1	N5	N6			HSS4X4X4	None	None	A500 Gr.B...	Typical
7	M11	N381A	N386A			RIGID	None	None	RIGID	Typical
8	M12	N382A	N387A			RIGID	None	None	RIGID	Typical
9	M13	N67	N383A			RIGID	None	None	RIGID	Typical
10	M14	N380A	N385A			RIGID	None	None	RIGID	Typical
11	M15	N379A	N384A			RIGID	None	None	RIGID	Typical
12	MP1	N396A	N391A			PIPE_2.0	Column	Pipe	A53 Gr.B	Typical
13	MP2	N397A	N392A			PIPE_2.0	Column	Pipe	A53 Gr.B	Typical
14	MP3	N393A	N388A			PIPE_2.0	Column	Pipe	A53 Gr.B	Typical
15	MP4	N395A	N390A			PIPE_2.0	Column	Pipe	A53 Gr.B	Typical
16	MP5	N394A	N389A			PIPE_2.0	Column	Pipe	A53 Gr.B	Typical
17	M21	N402A	N407			RIGID	None	None	RIGID	Typical
18	M22	N403A	N408			RIGID	None	None	RIGID	Typical
19	M23	N327	N404A			RIGID	None	None	RIGID	Typical
20	M24	N401A	N406			RIGID	None	None	RIGID	Typical
21	M25	N400A	N405A			RIGID	None	None	RIGID	Typical
22	MP11	N417	N412			PIPE_2.0	Column	Pipe	A53 Gr.B	Typical
23	MP12	N418	N413			PIPE_2.0	Column	Pipe	A53 Gr.B	Typical
24	MP13	N414	N409			PIPE_2.0	Column	Pipe	A53 Gr.B	Typical
25	MP14	N416	N411			PIPE_2.0	Column	Pipe	A53 Gr.B	Typical
26	MP15	N415	N410			PIPE_2.0	Column	Pipe	A53 Gr.B	Typical
27	M31	N423	N428			RIGID	None	None	RIGID	Typical
28	M32	N424	N429			RIGID	None	None	RIGID	Typical
29	M33	N213	N425			RIGID	None	None	RIGID	Typical
30	M34	N422	N427			RIGID	None	None	RIGID	Typical
31	M35	N421	N426			RIGID	None	None	RIGID	Typical
32	MP6	N438	N433			PIPE_2.0	Column	Pipe	A53 Gr.B	Typical
33	MP7	N439	N434			PIPE_2.0	Column	Pipe	A53 Gr.B	Typical
34	MP8	N435	N430			PIPE_2.0	Column	Pipe	A53 Gr.B	Typical
35	MP9	N437	N432			PIPE_2.0	Column	Pipe	A53 Gr.B	Typical
36	MP10	N436	N431			PIPE_2.0	Column	Pipe	A53 Gr.B	Typical

Material Takeoff

	Material	Size	Pieces	Length[in]	Weight[K]
1	General				
2	RIGID		15	17.8	0
3	Total General		15	17.8	0
4					
5	Hot Rolled Steel				
6	A500 Gr.B Rect	HSS4X4X4	6	757.5	.8
7	A53 Gr.B	PIPE_2.0	15	1080	.3
8	Total HR Steel		21	1837.5	1.1
9					
10	Plate Elements	Thickness (in)		Volume (yds^3)	
11	GRATE	.1	294	0	.2
12	Total Plates		294	0	.2

Member Point Loads (BLC 1 : Dead Load)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	Y	-38.3	%83
2	MP2	Y	-126.6	%50
3	MP3	Y	-6.3	%50
4	MP4	Y	-154.7	%83
5	MP5	Y	-41.8	%83
6	MP6	Y	-38.3	%83
7	MP7	Y	-126.6	%50
8	MP8	Y	-6.3	%50
9	MP9	Y	-154.7	%83
10	MP10	Y	-41.8	%83
11	MP11	Y	-78	%83
12	MP12	Y	-46	%83
13	MP13	Y	-126.6	%50
14	MP14	Y	-154.7	%83
15	MP15	Y	-41.8	%83

Member Point Loads (BLC 2 : Wind Load (0 deg))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	X	32.8	%83
2	MP2	X	13.5	%50
3	MP3	X	20.2	%50
4	MP4	X	168.5	%83
5	MP5	X	60.6	%83
6	MP6	X	57.7	%83
7	MP7	X	39.7	%50
8	MP8	X	41.4	%50
9	MP9	X	136.4	%83
10	MP10	X	62.3	%83
11	MP11	X	154.4	%83
12	MP12	X	138.1	%83
13	MP13	X	39.7	%50
14	MP14	X	136.4	%83
15	MP15	X	62.3	%83
16	MP1	Z	0	%83
17	MP2	Z	0	%50
18	MP3	Z	0	%50
19	MP4	Z	0	%83
20	MP5	Z	0	%83
21	MP6	Z	0	%83
22	MP7	Z	0	%50
23	MP8	Z	0	%50
24	MP9	Z	0	%83
25	MP10	Z	0	%83
26	MP11	Z	0	%83
27	MP12	Z	0	%83
28	MP13	Z	0	%50
29	MP14	Z	0	%83
30	MP15	Z	0	%83

Member Point Loads (BLC 3 : Wind Load (30 deg))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	X	35.6	%83
2	MP2	X	19.2	%50
3	MP3	X	23.6	%50
4	MP4	X	136.6	%83

Member Point Loads (BLC 3 : Wind Load (30 deg)) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
5	MP5	X	53	%83
6	MP6	X	57.1	%83
7	MP7	X	42	%50
8	MP8	X	42	%50
9	MP9	X	108.9	%83
10	MP10	X	54.4	%83
11	MP11	X	138.3	%83
12	MP12	X	126.3	%83
13	MP13	X	19.2	%50
14	MP14	X	136.6	%83
15	MP15	X	53	%83
16	MP1	Z	20.5	%83
17	MP2	Z	11.1	%50
18	MP3	Z	13.6	%50
19	MP4	Z	78.9	%83
20	MP5	Z	30.6	%83
21	MP6	Z	33	%83
22	MP7	Z	24.2	%50
23	MP8	Z	24.2	%50
24	MP9	Z	62.9	%83
25	MP10	Z	31.4	%83
26	MP11	Z	79.8	%83
27	MP12	Z	72.9	%83
28	MP13	Z	11.1	%50
29	MP14	Z	78.9	%83
30	MP15	Z	30.6	%83

Member Point Loads (BLC 4 : Wind Load (60 deg))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	X	28.8	%83
2	MP2	X	19.9	%50
3	MP3	X	20.7	%50
4	MP4	X	68.2	%83
5	MP5	X	31.1	%83
6	MP6	X	28.8	%83
7	MP7	X	19.9	%50
8	MP8	X	20.7	%50
9	MP9	X	68.2	%83
10	MP10	X	31.1	%83
11	MP11	X	81.1	%83
12	MP12	X	74.9	%83
13	MP13	X	6.7	%50
14	MP14	X	84.2	%83
15	MP15	X	30.3	%83
16	MP1	Z	49.9	%83
17	MP2	Z	34.4	%50
18	MP3	Z	35.9	%50
19	MP4	Z	118.1	%83
20	MP5	Z	53.9	%83
21	MP6	Z	49.9	%83
22	MP7	Z	34.4	%50
23	MP8	Z	35.9	%50
24	MP9	Z	118.1	%83
25	MP10	Z	53.9	%83
26	MP11	Z	140.5	%83
27	MP12	Z	129.7	%83

Member Point Loads (BLC 4 : Wind Load (60 deg)) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
28	MP13	Z	11.7	%50
29	MP14	Z	145.9	%83
30	MP15	Z	52.5	%83

Member Point Loads (BLC 5 : Wind Load (90 deg))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	X	0	%83
2	MP2	X	0	%50
3	MP3	X	0	%50
4	MP4	X	0	%83
5	MP5	X	0	%83
6	MP6	X	0	%83
7	MP7	X	0	%50
8	MP8	X	0	%50
9	MP9	X	0	%83
10	MP10	X	0	%83
11	MP11	X	0	%83
12	MP12	X	0	%83
13	MP13	X	0	%50
14	MP14	X	0	%83
15	MP15	X	0	%83
16	MP1	Z	66	%83
17	MP2	Z	48.5	%50
18	MP3	Z	48.5	%50
19	MP4	Z	125.7	%83
20	MP5	Z	62.8	%83
21	MP6	Z	41.1	%83
22	MP7	Z	22.2	%50
23	MP8	Z	27.3	%50
24	MP9	Z	157.8	%83
25	MP10	Z	61.2	%83
26	MP11	Z	159.6	%83
27	MP12	Z	145.8	%83
28	MP13	Z	22.2	%50
29	MP14	Z	157.8	%83
30	MP15	Z	61.2	%83

Member Point Loads (BLC 6 : Wind Load (120 deg))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	X	-28.8	%83
2	MP2	X	-19.9	%50
3	MP3	X	-20.7	%50
4	MP4	X	-68.2	%83
5	MP5	X	-31.1	%83
6	MP6	X	-16.4	%83
7	MP7	X	-6.7	%50
8	MP8	X	-10.1	%50
9	MP9	X	-84.2	%83
10	MP10	X	-30.3	%83
11	MP11	X	-77.2	%83
12	MP12	X	-69.1	%83
13	MP13	X	-19.9	%50
14	MP14	X	-68.2	%83
15	MP15	X	-31.1	%83
16	MP1	Z	49.9	%83
17	MP2	Z	34.4	%50

Member Point Loads (BLC 6 : Wind Load (120 deg)) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
18	MP3	Z	35.9	%50
19	MP4	Z	118.1	%83
20	MP5	Z	53.9	%83
21	MP6	Z	28.4	%83
22	MP7	Z	11.7	%50
23	MP8	Z	17.5	%50
24	MP9	Z	145.9	%83
25	MP10	Z	52.5	%83
26	MP11	Z	133.7	%83
27	MP12	Z	119.6	%83
28	MP13	Z	34.4	%50
29	MP14	Z	118.1	%83
30	MP15	Z	53.9	%83

Member Point Loads (BLC 7 : Wind Load (150 deg))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	X	-35.6	%83
2	MP2	X	-19.2	%50
3	MP3	X	-23.6	%50
4	MP4	X	-136.6	%83
5	MP5	X	-53	%83
6	MP6	X	-35.6	%83
7	MP7	X	-19.2	%50
8	MP8	X	-23.6	%50
9	MP9	X	-136.6	%83
10	MP10	X	-53	%83
11	MP11	X	-131.4	%83
12	MP12	X	-116.3	%83
13	MP13	X	-42	%50
14	MP14	X	-108.9	%83
15	MP15	X	-54.4	%83
16	MP1	Z	20.5	%83
17	MP2	Z	11.1	%50
18	MP3	Z	13.6	%50
19	MP4	Z	78.9	%83
20	MP5	Z	30.6	%83
21	MP6	Z	20.5	%83
22	MP7	Z	11.1	%50
23	MP8	Z	13.6	%50
24	MP9	Z	78.9	%83
25	MP10	Z	30.6	%83
26	MP11	Z	75.9	%83
27	MP12	Z	67.1	%83
28	MP13	Z	24.2	%50
29	MP14	Z	62.9	%83
30	MP15	Z	31.4	%83

Member Point Loads (BLC 8 : Wind Load (180 deg))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	X	-32.8	%83
2	MP2	X	-13.5	%50
3	MP3	X	-20.2	%50
4	MP4	X	-168.5	%83
5	MP5	X	-60.6	%83
6	MP6	X	-57.7	%83
7	MP7	X	-39.7	%50

Member Point Loads (BLC 8 : Wind Load (180 deg)) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
8	MP8	X	-41.4	%50
9	MP9	X	-136.4	%83
10	MP10	X	-62.3	%83
11	MP11	X	-154.4	%83
12	MP12	X	-138.1	%83
13	MP13	X	-39.7	%50
14	MP14	X	-136.4	%83
15	MP15	X	-62.3	%83
16	MP1	Z	0	%83
17	MP2	Z	0	%50
18	MP3	Z	0	%50
19	MP4	Z	0	%83
20	MP5	Z	0	%83
21	MP6	Z	0	%83
22	MP7	Z	0	%50
23	MP8	Z	0	%50
24	MP9	Z	0	%83
25	MP10	Z	0	%83
26	MP11	Z	0	%83
27	MP12	Z	0	%83
28	MP13	Z	0	%50
29	MP14	Z	0	%83
30	MP15	Z	0	%83

Member Point Loads (BLC 9 : Wind Load (210 deg))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	X	-35.6	%83
2	MP2	X	-19.2	%50
3	MP3	X	-23.6	%50
4	MP4	X	-136.6	%83
5	MP5	X	-53	%83
6	MP6	X	-57.1	%83
7	MP7	X	-42	%50
8	MP8	X	-42	%50
9	MP9	X	-108.9	%83
10	MP10	X	-54.4	%83
11	MP11	X	-138.3	%83
12	MP12	X	-126.3	%83
13	MP13	X	-19.2	%50
14	MP14	X	-136.6	%83
15	MP15	X	-53	%83
16	MP1	Z	-20.5	%83
17	MP2	Z	-11.1	%50
18	MP3	Z	-13.6	%50
19	MP4	Z	-78.9	%83
20	MP5	Z	-30.6	%83
21	MP6	Z	-33	%83
22	MP7	Z	-24.2	%50
23	MP8	Z	-24.2	%50
24	MP9	Z	-62.9	%83
25	MP10	Z	-31.4	%83
26	MP11	Z	-79.8	%83
27	MP12	Z	-72.9	%83
28	MP13	Z	-11.1	%50
29	MP14	Z	-78.9	%83
30	MP15	Z	-30.6	%83

Member Point Loads (BLC 10 : Wind Load (240 deg))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	X	-28.8	%83
2	MP2	X	-19.9	%50
3	MP3	X	-20.7	%50
4	MP4	X	-68.2	%83
5	MP5	X	-31.1	%83
6	MP6	X	-28.8	%83
7	MP7	X	-19.9	%50
8	MP8	X	-20.7	%50
9	MP9	X	-68.2	%83
10	MP10	X	-31.1	%83
11	MP11	X	-81.1	%83
12	MP12	X	-74.9	%83
13	MP13	X	-6.7	%50
14	MP14	X	-84.2	%83
15	MP15	X	-30.3	%83
16	MP1	Z	-49.9	%83
17	MP2	Z	-34.4	%50
18	MP3	Z	-35.9	%50
19	MP4	Z	-118.1	%83
20	MP5	Z	-53.9	%83
21	MP6	Z	-49.9	%83
22	MP7	Z	-34.4	%50
23	MP8	Z	-35.9	%50
24	MP9	Z	-118.1	%83
25	MP10	Z	-53.9	%83
26	MP11	Z	-140.5	%83
27	MP12	Z	-129.7	%83
28	MP13	Z	-11.7	%50
29	MP14	Z	-145.9	%83
30	MP15	Z	-52.5	%83

Member Point Loads (BLC 11 : Wind Load (270 deg))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	X	0	%83
2	MP2	X	0	%50
3	MP3	X	0	%50
4	MP4	X	0	%83
5	MP5	X	0	%83
6	MP6	X	0	%83
7	MP7	X	0	%50
8	MP8	X	0	%50
9	MP9	X	0	%83
10	MP10	X	0	%83
11	MP11	X	0	%83
12	MP12	X	0	%83
13	MP13	X	0	%50
14	MP14	X	0	%83
15	MP15	X	0	%83
16	MP1	Z	-66	%83
17	MP2	Z	-48.5	%50
18	MP3	Z	-48.5	%50
19	MP4	Z	-125.7	%83
20	MP5	Z	-62.8	%83
21	MP6	Z	-41.1	%83
22	MP7	Z	-22.2	%50
23	MP8	Z	-27.3	%50

Member Point Loads (BLC 11 : Wind Load (270 deg)) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
24	MP9	Z	-157.8	%83
25	MP10	Z	-61.2	%83
26	MP11	Z	-159.6	%83
27	MP12	Z	-145.8	%83
28	MP13	Z	-22.2	%50
29	MP14	Z	-157.8	%83
30	MP15	Z	-61.2	%83

Member Point Loads (BLC 12 : Wind Load (300 deg))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	X	28.8	%83
2	MP2	X	19.9	%50
3	MP3	X	20.7	%50
4	MP4	X	68.2	%83
5	MP5	X	31.1	%83
6	MP6	X	16.4	%83
7	MP7	X	6.7	%50
8	MP8	X	10.1	%50
9	MP9	X	84.2	%83
10	MP10	X	30.3	%83
11	MP11	X	77.2	%83
12	MP12	X	69.1	%83
13	MP13	X	19.9	%50
14	MP14	X	68.2	%83
15	MP15	X	31.1	%83
16	MP1	Z	-49.9	%83
17	MP2	Z	-34.4	%50
18	MP3	Z	-35.9	%50
19	MP4	Z	-118.1	%83
20	MP5	Z	-53.9	%83
21	MP6	Z	-28.4	%83
22	MP7	Z	-11.7	%50
23	MP8	Z	-17.5	%50
24	MP9	Z	-145.9	%83
25	MP10	Z	-52.5	%83
26	MP11	Z	-133.7	%83
27	MP12	Z	-119.6	%83
28	MP13	Z	-34.4	%50
29	MP14	Z	-118.1	%83
30	MP15	Z	-53.9	%83

Member Point Loads (BLC 13 : Wind Load (330 deg))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	X	35.6	%83
2	MP2	X	19.2	%50
3	MP3	X	23.6	%50
4	MP4	X	136.6	%83
5	MP5	X	53	%83
6	MP6	X	35.6	%83
7	MP7	X	19.2	%50
8	MP8	X	23.6	%50
9	MP9	X	136.6	%83
10	MP10	X	53	%83
11	MP11	X	131.4	%83
12	MP12	X	116.3	%83
13	MP13	X	42	%50

Member Point Loads (BLC 13 : Wind Load (330 deg)) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
14	MP14	X	108.9	%83
15	MP15	X	54.4	%83
16	MP1	Z	-20.5	%83
17	MP2	Z	-11.1	%50
18	MP3	Z	-13.6	%50
19	MP4	Z	-78.9	%83
20	MP5	Z	-30.6	%83
21	MP6	Z	-20.5	%83
22	MP7	Z	-11.1	%50
23	MP8	Z	-13.6	%50
24	MP9	Z	-78.9	%83
25	MP10	Z	-30.6	%83
26	MP11	Z	-75.9	%83
27	MP12	Z	-67.1	%83
28	MP13	Z	-24.2	%50
29	MP14	Z	-62.9	%83
30	MP15	Z	-31.4	%83

Member Point Loads (BLC 14 : Ice Load)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	Y	-167.1	%83
2	MP2	Y	-977	%50
3	MP3	Y	-151.7	%50
4	MP4	Y	-154.4	%83
5	MP5	Y	-117.1	%83
6	MP6	Y	-167.1	%83
7	MP7	Y	-977	%50
8	MP8	Y	-151.7	%50
9	MP9	Y	-154.4	%83
10	MP10	Y	-117.1	%83
11	MP11	Y	-274.7	%83
12	MP12	Y	-259.3	%83
13	MP13	Y	-977	%50
14	MP14	Y	-154.4	%83
15	MP15	Y	-117.1	%83

Member Point Loads (BLC 15 : Wind on Ice (0 deg))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	X	12.6	%83
2	MP2	X	6.6	%50
3	MP3	X	9.5	%50
4	MP4	X	46.3	%83
5	MP5	X	20.8	%83
6	MP6	X	19.5	%83
7	MP7	X	14.3	%50
8	MP8	X	15	%50
9	MP9	X	38.4	%83
10	MP10	X	21.2	%83
11	MP11	X	40.3	%83
12	MP12	X	35.8	%83
13	MP13	X	14.3	%50
14	MP14	X	38.4	%83
15	MP15	X	21.2	%83
16	MP1	Z	0	%83
17	MP2	Z	0	%50
18	MP3	Z	0	%50

Member Point Loads (BLC 15 : Wind on Ice (0 deg)) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
19	MP4	Z	0	%83
20	MP5	Z	0	%83
21	MP6	Z	0	%83
22	MP7	Z	0	%50
23	MP8	Z	0	%50
24	MP9	Z	0	%83
25	MP10	Z	0	%83
26	MP11	Z	0	%83
27	MP12	Z	0	%83
28	MP13	Z	0	%50
29	MP14	Z	0	%83
30	MP15	Z	0	%83

Member Point Loads (BLC 16 : Wind on Ice (30 deg))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	X	12.9	%83
2	MP2	X	7.9	%50
3	MP3	X	9.8	%50
4	MP4	X	37.8	%83
5	MP5	X	18.1	%83
6	MP6	X	18.9	%83
7	MP7	X	14.6	%50
8	MP8	X	14.6	%50
9	MP9	X	31	%83
10	MP10	X	18.4	%83
11	MP11	X	34.1	%83
12	MP12	X	31	%83
13	MP13	X	7.9	%50
14	MP14	X	37.8	%83
15	MP15	X	18.1	%83
16	MP1	Z	7.5	%83
17	MP2	Z	4.6	%50
18	MP3	Z	5.7	%50
19	MP4	Z	21.8	%83
20	MP5	Z	10.5	%83
21	MP6	Z	10.9	%83
22	MP7	Z	8.4	%50
23	MP8	Z	8.4	%50
24	MP9	Z	17.9	%83
25	MP10	Z	10.6	%83
26	MP11	Z	19.7	%83
27	MP12	Z	17.9	%83
28	MP13	Z	4.6	%50
29	MP14	Z	21.8	%83
30	MP15	Z	10.5	%83

Member Point Loads (BLC 17 : Wind on Ice (60 deg))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	X	9.8	%83
2	MP2	X	7.1	%50
3	MP3	X	7.5	%50
4	MP4	X	19.2	%83
5	MP5	X	10.6	%83
6	MP6	X	9.8	%83
7	MP7	X	7.1	%50
8	MP8	X	7.5	%50

Member Point Loads (BLC 17 : Wind on Ice (60 deg)) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
9	MP9	X	19.2	%83
10	MP10	X	10.6	%83
11	MP11	X	19.5	%83
12	MP12	X	17.9	%83
13	MP13	X	3.3	%50
14	MP14	X	23.2	%83
15	MP15	X	10.4	%83
16	MP1	Z	16.9	%83
17	MP2	Z	12.4	%50
18	MP3	Z	13	%50
19	MP4	Z	33.3	%83
20	MP5	Z	18.3	%83
21	MP6	Z	16.9	%83
22	MP7	Z	12.4	%50
23	MP8	Z	13	%50
24	MP9	Z	33.3	%83
25	MP10	Z	18.3	%83
26	MP11	Z	33.7	%83
27	MP12	Z	31	%83
28	MP13	Z	5.7	%50
29	MP14	Z	40.1	%83
30	MP15	Z	18.1	%83

Member Point Loads (BLC 18 : Wind on Ice (90 deg))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	X	0	%83
2	MP2	X	0	%50
3	MP3	X	0	%50
4	MP4	X	0	%83
5	MP5	X	0	%83
6	MP6	X	0	%83
7	MP7	X	0	%50
8	MP8	X	0	%50
9	MP9	X	0	%83
10	MP10	X	0	%83
11	MP11	X	0	%83
12	MP12	X	0	%83
13	MP13	X	0	%50
14	MP14	X	0	%83
15	MP15	X	0	%83
16	MP1	Z	21.8	%83
17	MP2	Z	16.8	%50
18	MP3	Z	16.8	%50
19	MP4	Z	35.8	%83
20	MP5	Z	21.3	%83
21	MP6	Z	14.9	%83
22	MP7	Z	9.1	%50
23	MP8	Z	11.3	%50
24	MP9	Z	43.7	%83
25	MP10	Z	21	%83
26	MP11	Z	39.4	%83
27	MP12	Z	35.8	%83
28	MP13	Z	9.1	%50
29	MP14	Z	43.7	%83
30	MP15	Z	21	%83

Member Point Loads (BLC 19 : Wind on Ice (120 deg))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	X	-9.8	%83
2	MP2	X	-7.1	%50
3	MP3	X	-7.5	%50
4	MP4	X	-19.2	%83
5	MP5	X	-10.6	%83
6	MP6	X	-6.3	%83
7	MP7	X	-3.3	%50
8	MP8	X	-4.7	%50
9	MP9	X	-23.2	%83
10	MP10	X	-10.4	%83
11	MP11	X	-20.2	%83
12	MP12	X	-17.9	%83
13	MP13	X	-7.1	%50
14	MP14	X	-19.2	%83
15	MP15	X	-10.6	%83
16	MP1	Z	16.9	%83
17	MP2	Z	12.4	%50
18	MP3	Z	13	%50
19	MP4	Z	33.3	%83
20	MP5	Z	18.3	%83
21	MP6	Z	10.9	%83
22	MP7	Z	5.7	%50
23	MP8	Z	8.2	%50
24	MP9	Z	40.1	%83
25	MP10	Z	18.1	%83
26	MP11	Z	34.9	%83
27	MP12	Z	31	%83
28	MP13	Z	12.4	%50
29	MP14	Z	33.3	%83
30	MP15	Z	18.3	%83

Member Point Loads (BLC 20 : Wind on Ice (150 deg))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	X	-12.9	%83
2	MP2	X	-7.9	%50
3	MP3	X	-9.8	%50
4	MP4	X	-37.8	%83
5	MP5	X	-18.1	%83
6	MP6	X	-12.9	%83
7	MP7	X	-7.9	%50
8	MP8	X	-9.8	%50
9	MP9	X	-37.8	%83
10	MP10	X	-18.1	%83
11	MP11	X	-35.4	%83
12	MP12	X	-31	%83
13	MP13	X	-14.6	%50
14	MP14	X	-31	%83
15	MP15	X	-18.4	%83
16	MP1	Z	7.5	%83
17	MP2	Z	4.6	%50
18	MP3	Z	5.7	%50
19	MP4	Z	21.8	%83
20	MP5	Z	10.5	%83
21	MP6	Z	7.5	%83
22	MP7	Z	4.6	%50
23	MP8	Z	5.7	%50

Member Point Loads (BLC 20 : Wind on Ice (150 deg)) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
24	MP9	Z	21.8	%83
25	MP10	Z	10.5	%83
26	MP11	Z	20.4	%83
27	MP12	Z	17.9	%83
28	MP13	Z	8.4	%50
29	MP14	Z	17.9	%83
30	MP15	Z	10.6	%83

Member Point Loads (BLC 21 : Wind on Ice (180 deg))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	X	-12.6	%83
2	MP2	X	-6.6	%50
3	MP3	X	-9.5	%50
4	MP4	X	-46.3	%83
5	MP5	X	-20.8	%83
6	MP6	X	-19.5	%83
7	MP7	X	-14.3	%50
8	MP8	X	-15	%50
9	MP9	X	-38.4	%83
10	MP10	X	-21.2	%83
11	MP11	X	-40.3	%83
12	MP12	X	-35.8	%83
13	MP13	X	-14.3	%50
14	MP14	X	-38.4	%83
15	MP15	X	-21.2	%83
16	MP1	Z	0	%83
17	MP2	Z	0	%50
18	MP3	Z	0	%50
19	MP4	Z	0	%83
20	MP5	Z	0	%83
21	MP6	Z	0	%83
22	MP7	Z	0	%50
23	MP8	Z	0	%50
24	MP9	Z	0	%83
25	MP10	Z	0	%83
26	MP11	Z	0	%83
27	MP12	Z	0	%83
28	MP13	Z	0	%50
29	MP14	Z	0	%83
30	MP15	Z	0	%83

Member Point Loads (BLC 22 : Wind on Ice (210 deg))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	X	-12.9	%83
2	MP2	X	-7.9	%50
3	MP3	X	-9.8	%50
4	MP4	X	-37.8	%83
5	MP5	X	-18.1	%83
6	MP6	X	-18.9	%83
7	MP7	X	-14.6	%50
8	MP8	X	-14.6	%50
9	MP9	X	-31	%83
10	MP10	X	-18.4	%83
11	MP11	X	-34.1	%83
12	MP12	X	-31	%83
13	MP13	X	-7.9	%50

Member Point Loads (BLC 22 : Wind on Ice (210 deg)) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
14	MP14	X	-37.8	%83
15	MP15	X	-18.1	%83
16	MP1	Z	-7.5	%83
17	MP2	Z	-4.6	%50
18	MP3	Z	-5.7	%50
19	MP4	Z	-21.8	%83
20	MP5	Z	-10.5	%83
21	MP6	Z	-10.9	%83
22	MP7	Z	-8.4	%50
23	MP8	Z	-8.4	%50
24	MP9	Z	-17.9	%83
25	MP10	Z	-10.6	%83
26	MP11	Z	-19.7	%83
27	MP12	Z	-17.9	%83
28	MP13	Z	-4.6	%50
29	MP14	Z	-21.8	%83
30	MP15	Z	-10.5	%83

Member Point Loads (BLC 23 : Wind on Ice (240 deg))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	X	-9.8	%83
2	MP2	X	-7.1	%50
3	MP3	X	-7.5	%50
4	MP4	X	-19.2	%83
5	MP5	X	-10.6	%83
6	MP6	X	-9.8	%83
7	MP7	X	-7.1	%50
8	MP8	X	-7.5	%50
9	MP9	X	-19.2	%83
10	MP10	X	-10.6	%83
11	MP11	X	-19.5	%83
12	MP12	X	-17.9	%83
13	MP13	X	-3.3	%50
14	MP14	X	-23.2	%83
15	MP15	X	-10.4	%83
16	MP1	Z	-16.9	%83
17	MP2	Z	-12.4	%50
18	MP3	Z	-13	%50
19	MP4	Z	-33.3	%83
20	MP5	Z	-18.3	%83
21	MP6	Z	-16.9	%83
22	MP7	Z	-12.4	%50
23	MP8	Z	-13	%50
24	MP9	Z	-33.3	%83
25	MP10	Z	-18.3	%83
26	MP11	Z	-33.7	%83
27	MP12	Z	-31	%83
28	MP13	Z	-5.7	%50
29	MP14	Z	-40.1	%83
30	MP15	Z	-18.1	%83

Member Point Loads (BLC 24 : Wind on Ice (270 deg))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	X	0	%83
2	MP2	X	0	%50
3	MP3	X	0	%50

Member Point Loads (BLC 24 : Wind on Ice (270 deg)) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
4	MP4	X	0	%83
5	MP5	X	0	%83
6	MP6	X	0	%83
7	MP7	X	0	%50
8	MP8	X	0	%50
9	MP9	X	0	%83
10	MP10	X	0	%83
11	MP11	X	0	%83
12	MP12	X	0	%83
13	MP13	X	0	%50
14	MP14	X	0	%83
15	MP15	X	0	%83
16	MP1	Z	-21.8	%83
17	MP2	Z	-16.8	%50
18	MP3	Z	-16.8	%50
19	MP4	Z	-35.8	%83
20	MP5	Z	-21.3	%83
21	MP6	Z	-14.9	%83
22	MP7	Z	-9.1	%50
23	MP8	Z	-11.3	%50
24	MP9	Z	-43.7	%83
25	MP10	Z	-21	%83
26	MP11	Z	-39.4	%83
27	MP12	Z	-35.8	%83
28	MP13	Z	-9.1	%50
29	MP14	Z	-43.7	%83
30	MP15	Z	-21	%83

Member Point Loads (BLC 25 : Wind on Ice (300 deg))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	X	9.8	%83
2	MP2	X	7.1	%50
3	MP3	X	7.5	%50
4	MP4	X	19.2	%83
5	MP5	X	10.6	%83
6	MP6	X	6.3	%83
7	MP7	X	3.3	%50
8	MP8	X	4.7	%50
9	MP9	X	23.2	%83
10	MP10	X	10.4	%83
11	MP11	X	20.2	%83
12	MP12	X	17.9	%83
13	MP13	X	7.1	%50
14	MP14	X	19.2	%83
15	MP15	X	10.6	%83
16	MP1	Z	-16.9	%83
17	MP2	Z	-12.4	%50
18	MP3	Z	-13	%50
19	MP4	Z	-33.3	%83
20	MP5	Z	-18.3	%83
21	MP6	Z	-10.9	%83
22	MP7	Z	-5.7	%50
23	MP8	Z	-8.2	%50
24	MP9	Z	-40.1	%83
25	MP10	Z	-18.1	%83
26	MP11	Z	-34.9	%83

Member Point Loads (BLC 25 : Wind on Ice (300 deg)) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
27	MP12	Z	-31	%83
28	MP13	Z	-12.4	%50
29	MP14	Z	-33.3	%83
30	MP15	Z	-18.3	%83

Member Point Loads (BLC 26 : Wind on Ice (330 deg))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	X	12.9	%83
2	MP2	X	7.9	%50
3	MP3	X	9.8	%50
4	MP4	X	37.8	%83
5	MP5	X	18.1	%83
6	MP6	X	12.9	%83
7	MP7	X	7.9	%50
8	MP8	X	9.8	%50
9	MP9	X	37.8	%83
10	MP10	X	18.1	%83
11	MP11	X	35.4	%83
12	MP12	X	31	%83
13	MP13	X	14.6	%50
14	MP14	X	31	%83
15	MP15	X	18.4	%83
16	MP1	Z	-7.5	%83
17	MP2	Z	-4.6	%50
18	MP3	Z	-5.7	%50
19	MP4	Z	-21.8	%83
20	MP5	Z	-10.5	%83
21	MP6	Z	-7.5	%83
22	MP7	Z	-4.6	%50
23	MP8	Z	-5.7	%50
24	MP9	Z	-21.8	%83
25	MP10	Z	-10.5	%83
26	MP11	Z	-20.4	%83
27	MP12	Z	-17.9	%83
28	MP13	Z	-8.4	%50
29	MP14	Z	-17.9	%83
30	MP15	Z	-10.6	%83

Member Point Loads (BLC 27 : Horizontal Seismic, Eh (0))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	X	38.3	%83
2	MP2	X	126.6	%50
3	MP3	X	6.3	%50
4	MP4	X	154.7	%83
5	MP5	X	41.8	%83
6	MP6	X	38.3	%83
7	MP7	X	126.6	%50
8	MP8	X	6.3	%50
9	MP9	X	154.7	%83
10	MP10	X	41.8	%83
11	MP11	X	78	%83
12	MP12	X	46	%83
13	MP13	X	126.6	%50
14	MP14	X	154.7	%83
15	MP15	X	41.8	%83
16	MP1	Z	0	%83

Member Point Loads (BLC 27 : Horizontal Seismic, Eh (0)) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
17	MP2	Z	0	%50
18	MP3	Z	0	%50
19	MP4	Z	0	%83
20	MP5	Z	0	%83
21	MP6	Z	0	%83
22	MP7	Z	0	%50
23	MP8	Z	0	%50
24	MP9	Z	0	%83
25	MP10	Z	0	%83
26	MP11	Z	0	%83
27	MP12	Z	0	%83
28	MP13	Z	0	%50
29	MP14	Z	0	%83
30	MP15	Z	0	%83

Member Point Loads (BLC 28 : Horizontal Seismic, Eh (30))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	X	33.2	%83
2	MP2	X	109.6	%50
3	MP3	X	5.5	%50
4	MP4	X	134	%83
5	MP5	X	36.2	%83
6	MP6	X	33.2	%83
7	MP7	X	109.6	%50
8	MP8	X	5.5	%50
9	MP9	X	134	%83
10	MP10	X	36.2	%83
11	MP11	X	67.5	%83
12	MP12	X	39.8	%83
13	MP13	X	109.6	%50
14	MP14	X	134	%83
15	MP15	X	36.2	%83
16	MP1	Z	19.2	%83
17	MP2	Z	63.3	%50
18	MP3	Z	3.2	%50
19	MP4	Z	77.3	%83
20	MP5	Z	20.9	%83
21	MP6	Z	19.2	%83
22	MP7	Z	63.3	%50
23	MP8	Z	3.2	%50
24	MP9	Z	77.3	%83
25	MP10	Z	20.9	%83
26	MP11	Z	39	%83
27	MP12	Z	23	%83
28	MP13	Z	63.3	%50
29	MP14	Z	77.3	%83
30	MP15	Z	20.9	%83

Member Point Loads (BLC 29 : Horizontal Seismic, Eh (60))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	X	19.2	%83
2	MP2	X	63.3	%50
3	MP3	X	3.2	%50
4	MP4	X	77.4	%83
5	MP5	X	20.9	%83
6	MP6	X	19.2	%83

Member Point Loads (BLC 29 : Horizontal Seismic, Eh (60)) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
7	MP7	X	63.3	%50
8	MP8	X	3.2	%50
9	MP9	X	77.4	%83
10	MP10	X	20.9	%83
11	MP11	X	39	%83
12	MP12	X	23	%83
13	MP13	X	63.3	%50
14	MP14	X	77.4	%83
15	MP15	X	20.9	%83
16	MP1	Z	33.2	%83
17	MP2	Z	109.6	%50
18	MP3	Z	5.5	%50
19	MP4	Z	134	%83
20	MP5	Z	36.2	%83
21	MP6	Z	33.2	%83
22	MP7	Z	109.6	%50
23	MP8	Z	5.5	%50
24	MP9	Z	134	%83
25	MP10	Z	36.2	%83
26	MP11	Z	67.5	%83
27	MP12	Z	39.8	%83
28	MP13	Z	109.6	%50
29	MP14	Z	134	%83
30	MP15	Z	36.2	%83

Member Point Loads (BLC 30 : Horizontal Seismic, Eh (90))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	X	0	%83
2	MP2	X	0	%50
3	MP3	X	0	%50
4	MP4	X	0	%83
5	MP5	X	0	%83
6	MP6	X	0	%83
7	MP7	X	0	%50
8	MP8	X	0	%50
9	MP9	X	0	%83
10	MP10	X	0	%83
11	MP11	X	0	%83
12	MP12	X	0	%83
13	MP13	X	0	%50
14	MP14	X	0	%83
15	MP15	X	0	%83
16	MP1	Z	38.3	%83
17	MP2	Z	126.6	%50
18	MP3	Z	6.3	%50
19	MP4	Z	154.7	%83
20	MP5	Z	41.8	%83
21	MP6	Z	38.3	%83
22	MP7	Z	126.6	%50
23	MP8	Z	6.3	%50
24	MP9	Z	154.7	%83
25	MP10	Z	41.8	%83
26	MP11	Z	78	%83
27	MP12	Z	46	%83
28	MP13	Z	126.6	%50
29	MP14	Z	154.7	%83

Member Point Loads (BLC 30 : Horizontal Seismic, Eh (90)) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
30	MP15	Z	41.8	%83

Member Point Loads (BLC 31 : Horizontal Seismic, Eh (120))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	X	-19.2	%83
2	MP2	X	-63.3	%50
3	MP3	X	-3.2	%50
4	MP4	X	-77.3	%83
5	MP5	X	-20.9	%83
6	MP6	X	-19.2	%83
7	MP7	X	-63.3	%50
8	MP8	X	-3.2	%50
9	MP9	X	-77.3	%83
10	MP10	X	-20.9	%83
11	MP11	X	-39	%83
12	MP12	X	-23	%83
13	MP13	X	-63.3	%50
14	MP14	X	-77.3	%83
15	MP15	X	-20.9	%83
16	MP1	Z	33.2	%83
17	MP2	Z	109.6	%50
18	MP3	Z	5.5	%50
19	MP4	Z	134	%83
20	MP5	Z	36.2	%83
21	MP6	Z	33.2	%83
22	MP7	Z	109.6	%50
23	MP8	Z	5.5	%50
24	MP9	Z	134	%83
25	MP10	Z	36.2	%83
26	MP11	Z	67.5	%83
27	MP12	Z	39.8	%83
28	MP13	Z	109.6	%50
29	MP14	Z	134	%83
30	MP15	Z	36.2	%83

Member Point Loads (BLC 32 : Horizontal Seismic, Eh (150))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	X	-33.2	%83
2	MP2	X	-109.6	%50
3	MP3	X	-5.5	%50
4	MP4	X	-134	%83
5	MP5	X	-36.2	%83
6	MP6	X	-33.2	%83
7	MP7	X	-109.6	%50
8	MP8	X	-5.5	%50
9	MP9	X	-134	%83
10	MP10	X	-36.2	%83
11	MP11	X	-67.5	%83
12	MP12	X	-39.8	%83
13	MP13	X	-109.6	%50
14	MP14	X	-134	%83
15	MP15	X	-36.2	%83
16	MP1	Z	19.2	%83
17	MP2	Z	63.3	%50
18	MP3	Z	3.2	%50
19	MP4	Z	77.3	%83

Member Point Loads (BLC 32 : Horizontal Seismic, Eh (150)) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
20	MP5	Z	20.9	%83
21	MP6	Z	19.2	%83
22	MP7	Z	63.3	%50
23	MP8	Z	3.2	%50
24	MP9	Z	77.3	%83
25	MP10	Z	20.9	%83
26	MP11	Z	39	%83
27	MP12	Z	23	%83
28	MP13	Z	63.3	%50
29	MP14	Z	77.3	%83
30	MP15	Z	20.9	%83

Member Point Loads (BLC 33 : Horizontal Seismic, Eh (180))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	X	-38.3	%83
2	MP2	X	-126.6	%50
3	MP3	X	-6.3	%50
4	MP4	X	-154.7	%83
5	MP5	X	-41.8	%83
6	MP6	X	-38.3	%83
7	MP7	X	-126.6	%50
8	MP8	X	-6.3	%50
9	MP9	X	-154.7	%83
10	MP10	X	-41.8	%83
11	MP11	X	-78	%83
12	MP12	X	-46	%83
13	MP13	X	-126.6	%50
14	MP14	X	-154.7	%83
15	MP15	X	-41.8	%83
16	MP1	Z	0	%83
17	MP2	Z	0	%50
18	MP3	Z	0	%50
19	MP4	Z	0	%83
20	MP5	Z	0	%83
21	MP6	Z	0	%83
22	MP7	Z	0	%50
23	MP8	Z	0	%50
24	MP9	Z	0	%83
25	MP10	Z	0	%83
26	MP11	Z	0	%83
27	MP12	Z	0	%83
28	MP13	Z	0	%50
29	MP14	Z	0	%83
30	MP15	Z	0	%83

Member Point Loads (BLC 34 : Horizontal Seismic, Eh (210))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	X	-33.2	%83
2	MP2	X	-109.6	%50
3	MP3	X	-5.5	%50
4	MP4	X	-134	%83
5	MP5	X	-36.2	%83
6	MP6	X	-33.2	%83
7	MP7	X	-109.6	%50
8	MP8	X	-5.5	%50
9	MP9	X	-134	%83

Member Point Loads (BLC 34 : Horizontal Seismic, Eh (210)) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
10	MP10	X	-36.2	%83
11	MP11	X	-67.5	%83
12	MP12	X	-39.8	%83
13	MP13	X	-109.6	%50
14	MP14	X	-134	%83
15	MP15	X	-36.2	%83
16	MP1	Z	-19.2	%83
17	MP2	Z	-63.3	%50
18	MP3	Z	-3.2	%50
19	MP4	Z	-77.4	%83
20	MP5	Z	-20.9	%83
21	MP6	Z	-19.2	%83
22	MP7	Z	-63.3	%50
23	MP8	Z	-3.2	%50
24	MP9	Z	-77.4	%83
25	MP10	Z	-20.9	%83
26	MP11	Z	-39	%83
27	MP12	Z	-23	%83
28	MP13	Z	-63.3	%50
29	MP14	Z	-77.4	%83
30	MP15	Z	-20.9	%83

Member Point Loads (BLC 35 : Horizontal Seismic, Eh (240))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	X	-19.2	%83
2	MP2	X	-63.3	%50
3	MP3	X	-3.2	%50
4	MP4	X	-77.4	%83
5	MP5	X	-20.9	%83
6	MP6	X	-19.2	%83
7	MP7	X	-63.3	%50
8	MP8	X	-3.2	%50
9	MP9	X	-77.4	%83
10	MP10	X	-20.9	%83
11	MP11	X	-39	%83
12	MP12	X	-23	%83
13	MP13	X	-63.3	%50
14	MP14	X	-77.4	%83
15	MP15	X	-20.9	%83
16	MP1	Z	-33.2	%83
17	MP2	Z	-109.6	%50
18	MP3	Z	-5.5	%50
19	MP4	Z	-134	%83
20	MP5	Z	-36.2	%83
21	MP6	Z	-33.2	%83
22	MP7	Z	-109.6	%50
23	MP8	Z	-5.5	%50
24	MP9	Z	-134	%83
25	MP10	Z	-36.2	%83
26	MP11	Z	-67.5	%83
27	MP12	Z	-39.8	%83
28	MP13	Z	-109.6	%50
29	MP14	Z	-134	%83
30	MP15	Z	-36.2	%83

Member Point Loads (BLC 36 : Horizontal Seismic, Eh (270))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	X	0	%83
2	MP2	X	0	%50
3	MP3	X	0	%50
4	MP4	X	0	%83
5	MP5	X	0	%83
6	MP6	X	0	%83
7	MP7	X	0	%50
8	MP8	X	0	%50
9	MP9	X	0	%83
10	MP10	X	0	%83
11	MP11	X	0	%83
12	MP12	X	0	%83
13	MP13	X	0	%50
14	MP14	X	0	%83
15	MP15	X	0	%83
16	MP1	Z	-38.3	%83
17	MP2	Z	-126.6	%50
18	MP3	Z	-6.3	%50
19	MP4	Z	-154.7	%83
20	MP5	Z	-41.8	%83
21	MP6	Z	-38.3	%83
22	MP7	Z	-126.6	%50
23	MP8	Z	-6.3	%50
24	MP9	Z	-154.7	%83
25	MP10	Z	-41.8	%83
26	MP11	Z	-78	%83
27	MP12	Z	-46	%83
28	MP13	Z	-126.6	%50
29	MP14	Z	-154.7	%83
30	MP15	Z	-41.8	%83

Member Point Loads (BLC 37 : Horizontal Seismic, Eh (300))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	X	19.2	%83
2	MP2	X	63.3	%50
3	MP3	X	3.2	%50
4	MP4	X	77.4	%83
5	MP5	X	20.9	%83
6	MP6	X	19.2	%83
7	MP7	X	63.3	%50
8	MP8	X	3.2	%50
9	MP9	X	77.4	%83
10	MP10	X	20.9	%83
11	MP11	X	39	%83
12	MP12	X	23	%83
13	MP13	X	63.3	%50
14	MP14	X	77.4	%83
15	MP15	X	20.9	%83
16	MP1	Z	-33.2	%83
17	MP2	Z	-109.6	%50
18	MP3	Z	-5.5	%50
19	MP4	Z	-134	%83
20	MP5	Z	-36.2	%83
21	MP6	Z	-33.2	%83
22	MP7	Z	-109.6	%50
23	MP8	Z	-5.5	%50

Member Point Loads (BLC 37 : Horizontal Seismic, Eh (300)) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
24	MP9	Z	-134	%83
25	MP10	Z	-36.2	%83
26	MP11	Z	-67.5	%83
27	MP12	Z	-39.8	%83
28	MP13	Z	-109.6	%50
29	MP14	Z	-134	%83
30	MP15	Z	-36.2	%83

Member Point Loads (BLC 38 : Horizontal Seismic, Eh (330))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	X	33.2	%83
2	MP2	X	109.6	%50
3	MP3	X	5.5	%50
4	MP4	X	134	%83
5	MP5	X	36.2	%83
6	MP6	X	33.2	%83
7	MP7	X	109.6	%50
8	MP8	X	5.5	%50
9	MP9	X	134	%83
10	MP10	X	36.2	%83
11	MP11	X	67.5	%83
12	MP12	X	39.8	%83
13	MP13	X	109.6	%50
14	MP14	X	134	%83
15	MP15	X	36.2	%83
16	MP1	Z	-19.2	%83
17	MP2	Z	-63.3	%50
18	MP3	Z	-3.2	%50
19	MP4	Z	-77.4	%83
20	MP5	Z	-20.9	%83
21	MP6	Z	-19.2	%83
22	MP7	Z	-63.3	%50
23	MP8	Z	-3.2	%50
24	MP9	Z	-77.4	%83
25	MP10	Z	-20.9	%83
26	MP11	Z	-39	%83
27	MP12	Z	-23	%83
28	MP13	Z	-63.3	%50
29	MP14	Z	-77.4	%83
30	MP15	Z	-20.9	%83

Member Point Loads (BLC 39 : Maintenance Load, Lm (MP1))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	Y	-500	%50

Member Point Loads (BLC 40 : Maintenance Load, Lm (MP2))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP2	Y	-500	%50

Member Point Loads (BLC 41 : Maintenance Load, Lm (MP3))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP3	Y	-500	%50

Member Point Loads (BLC 42 : Maintenance Load, Lm (MP4))

Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]

Member Point Loads (BLC 42 : Maintenance Load, Lm (MP4)) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP4	Y	-500	%50

Member Point Loads (BLC 43 : Maintenance Load, Lm (MP5))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP5	Y	-500	%50

Member Point Loads (BLC 44 : Maintenance Load, Lm (MP6))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP6	Y	-500	%50

Member Point Loads (BLC 45 : Maintenance Load, Lm (MP7))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP7	Y	-500	%50

Member Point Loads (BLC 46 : Maintenance Load, Lm (MP8))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP8	Y	-500	%50

Member Point Loads (BLC 47 : Maintenance Load, Lm (MP9))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP9	Y	-500	%50

Member Point Loads (BLC 48 : Maintenance Load, Lm (MP10))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP10	Y	-500	%50

Member Point Loads (BLC 49 : Maintenance Load, Lm (MP11))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP11	Y	-500	%50

Member Point Loads (BLC 50 : Maintenance Load, Lm (MP12))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP12	Y	-500	%50

Member Point Loads (BLC 51 : Maintenance Load, Lm (MP13))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP13	Y	-500	%50

Member Point Loads (BLC 52 : Maintenance Load, Lm (MP14))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP14	Y	-500	%50

Member Point Loads (BLC 53 : Maintenance Load, Lm (MP15))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP15	Y	-500	%50

Member Point Loads (BLC 75 : Maintenance Load, Lv (Pos. 1))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	FM1	Y	-250	0

Member Point Loads (BLC 76 : Maintenance Load, Lv (Pos. 2))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	FM1	Y	-250	%50

Member Point Loads (BLC 77 : Maintenance Load, Lv (Pos. 3))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	FM1	Y	-250	%100

Member Point Loads (BLC 78 : Maintenance Load, Lv (Pos. 4))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	FM2	Y	-250	0

Member Point Loads (BLC 79 : Maintenance Load, Lv (Pos. 5))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	FM2	Y	-250	%50

Member Point Loads (BLC 80 : Maintenance Load, Lv (Pos. 6))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	FM2	Y	-250	%100

Member Point Loads (BLC 81 : Maintenance Load, Lv (Pos. 7))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	FM3	Y	-250	0

Member Point Loads (BLC 82 : Maintenance Load, Lv (Pos. 8))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	FM3	Y	-250	%50

Member Point Loads (BLC 83 : Maintenance Load, Lv (Pos. 9))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	FM3	Y	-250	%100

Member Point Loads (BLC 84 : Maintenance Load, Lv (Pos. 10))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	SA1	Y	-250	0

Member Point Loads (BLC 85 : Maintenance Load, Lv (Pos. 11))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	SA1	Y	-250	%100

Member Point Loads (BLC 86 : Maintenance Load, Lv (Pos. 12))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	SA2	Y	-250	0

Member Point Loads (BLC 87 : Maintenance Load, Lv (Pos. 13))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	SA2	Y	-250	%100

Member Point Loads (BLC 88 : Maintenance Load, Lv (Pos. 14))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	SA3	Y	-250	0

Member Point Loads (BLC 89 : Maintenance Load, Lv (Pos. 15))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	SA3	Y	-250	%100

Member Point Loads (BLC 175 : Antenna Wind Load (0 deg))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	X	32.6	%58.333
2	MP1	X	65.3	%95.833
3	MP2	X	166.6	%41.667
4	MP2	X	555.5	%95.833
5	MP3	X	32.6	%58.333
6	MP3	X	65.3	%95.833
7	MP4	X	0	0
8	MP4	X	0	0
9	MP5	X	26.2	%80.444
10	MP5	X	26.2	%86.222
11	MP6	X	39	%58.333
12	MP6	X	78	%95.833
13	MP7	X	77.8	%41.667
14	MP7	X	259.2	%95.833
15	MP8	X	39	%58.333
16	MP8	X	78	%95.833
17	MP9	X	0	0
18	MP9	X	0	0
19	MP10	X	16.1	%80.444
20	MP10	X	16.1	%86.222
21	MP11	X	39.6	%58.333
22	MP11	X	79.2	%95.833
23	MP12	X	39.6	%58.333
24	MP12	X	79.2	%95.833
25	MP13	X	77.8	%41.667
26	MP13	X	259.2	%95.833
27	MP14	X	0	0
28	MP14	X	0	0
29	MP15	X	16.1	%80.444
30	MP15	X	16.1	%86.222
31	MP1	Z	0	0
32	MP1	Z	0	0
33	MP2	Z	0	0
34	MP2	Z	0	0
35	MP3	Z	0	0
36	MP3	Z	0	0
37	MP4	Z	0	0
38	MP4	Z	0	0
39	MP5	Z	0	0
40	MP5	Z	0	0
41	MP6	Z	0	0
42	MP6	Z	0	0
43	MP7	Z	0	0
44	MP7	Z	0	0
45	MP8	Z	0	0
46	MP8	Z	0	0
47	MP9	Z	0	0
48	MP9	Z	0	0
49	MP10	Z	0	0
50	MP10	Z	0	0
51	MP11	Z	0	0
52	MP11	Z	0	0

Member Point Loads (BLC 175 : Antenna Wind Load (0 deg)) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
53	MP12	Z	0	0
54	MP12	Z	0	0
55	MP13	Z	0	0
56	MP13	Z	0	0
57	MP14	Z	0	0
58	MP14	Z	0	0
59	MP15	Z	0	0
60	MP15	Z	0	0

Member Point Loads (BLC 176 : Antenna Wind Load (30 deg))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	X	30.1	%58.333
2	MP1	X	60.2	%95.833
3	MP2	X	118.7	%41.667
4	MP2	X	395.5	%95.833
5	MP3	X	30.1	%58.333
6	MP3	X	60.2	%95.833
7	MP4	X	0	0
8	MP4	X	0	0
9	MP5	X	19.8	%80.444
10	MP5	X	19.8	%86.222
11	MP6	X	35.6	%58.333
12	MP6	X	71.3	%95.833
13	MP7	X	41.7	%41.667
14	MP7	X	138.9	%95.833
15	MP8	X	35.6	%58.333
16	MP8	X	71.3	%95.833
17	MP9	X	0	0
18	MP9	X	0	0
19	MP10	X	11	%80.444
20	MP10	X	11	%86.222
21	MP11	X	31.5	%58.333
22	MP11	X	63.1	%95.833
23	MP12	X	31.5	%58.333
24	MP12	X	63.1	%95.833
25	MP13	X	118.7	%41.667
26	MP13	X	395.5	%95.833
27	MP14	X	0	0
28	MP14	X	0	0
29	MP15	X	19.8	%80.444
30	MP15	X	19.8	%86.222
31	MP1	Z	17.4	%58.333
32	MP1	Z	34.8	%95.833
33	MP2	Z	68.5	%41.667
34	MP2	Z	228.4	%95.833
35	MP3	Z	17.4	%58.333
36	MP3	Z	34.8	%95.833
37	MP4	Z	0	0
38	MP4	Z	0	0
39	MP5	Z	11.4	%80.444
40	MP5	Z	11.4	%86.222
41	MP6	Z	20.6	%58.333
42	MP6	Z	41.2	%95.833
43	MP7	Z	24.1	%41.667
44	MP7	Z	80.2	%95.833
45	MP8	Z	20.6	%58.333

Member Point Loads (BLC 176 : Antenna Wind Load (30 deg)) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
46	MP8	Z	41.2	%95.833
47	MP9	Z	0	0
48	MP9	Z	0	0
49	MP10	Z	6.4	%80.444
50	MP10	Z	6.4	%86.222
51	MP11	Z	18.2	%58.333
52	MP11	Z	36.4	%95.833
53	MP12	Z	18.2	%58.333
54	MP12	Z	36.4	%95.833
55	MP13	Z	68.5	%41.667
56	MP13	Z	228.4	%95.833
57	MP14	Z	0	0
58	MP14	Z	0	0
59	MP15	Z	11.4	%80.444
60	MP15	Z	11.4	%86.222

Member Point Loads (BLC 177 : Antenna Wind Load (60 deg))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	X	19.5	%58.333
2	MP1	X	39	%95.833
3	MP2	X	38.9	%41.667
4	MP2	X	129.6	%95.833
5	MP3	X	19.5	%58.333
6	MP3	X	39	%95.833
7	MP4	X	0	0
8	MP4	X	0	0
9	MP5	X	8.1	%80.444
10	MP5	X	8.1	%86.222
11	MP6	X	19.5	%58.333
12	MP6	X	39	%95.833
13	MP7	X	38.9	%41.667
14	MP7	X	129.6	%95.833
15	MP8	X	19.5	%58.333
16	MP8	X	39	%95.833
17	MP9	X	0	0
18	MP9	X	0	0
19	MP10	X	8.1	%80.444
20	MP10	X	8.1	%86.222
21	MP11	X	17.4	%58.333
22	MP11	X	34.8	%95.833
23	MP12	X	17.4	%58.333
24	MP12	X	34.8	%95.833
25	MP13	X	83.3	%41.667
26	MP13	X	277.7	%95.833
27	MP14	X	0	0
28	MP14	X	0	0
29	MP15	X	13.1	%80.444
30	MP15	X	13.1	%86.222
31	MP1	Z	33.8	%58.333
32	MP1	Z	67.6	%95.833
33	MP2	Z	67.3	%41.667
34	MP2	Z	224.5	%95.833
35	MP3	Z	33.8	%58.333
36	MP3	Z	67.6	%95.833
37	MP4	Z	0	0
38	MP4	Z	0	0

Member Point Loads (BLC 177 : Antenna Wind Load (60 deg)) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
39	MP5	Z	14	%80.444
40	MP5	Z	14	%86.222
41	MP6	Z	33.8	%58.333
42	MP6	Z	67.6	%95.833
43	MP7	Z	67.3	%41.667
44	MP7	Z	224.5	%95.833
45	MP8	Z	33.8	%58.333
46	MP8	Z	67.6	%95.833
47	MP9	Z	0	0
48	MP9	Z	0	0
49	MP10	Z	14	%80.444
50	MP10	Z	14	%86.222
51	MP11	Z	30.2	%58.333
52	MP11	Z	60.4	%95.833
53	MP12	Z	30.2	%58.333
54	MP12	Z	60.4	%95.833
55	MP13	Z	144.3	%41.667
56	MP13	Z	481.1	%95.833
57	MP14	Z	0	0
58	MP14	Z	0	0
59	MP15	Z	22.7	%80.444
60	MP15	Z	22.7	%86.222

Member Point Loads (BLC 178 : Antenna Wind Load (90 deg))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	X	0	0
2	MP1	X	0	0
3	MP2	X	0	0
4	MP2	X	0	0
5	MP3	X	0	0
6	MP3	X	0	0
7	MP4	X	0	0
8	MP4	X	0	0
9	MP5	X	0	0
10	MP5	X	0	0
11	MP6	X	0	0
12	MP6	X	0	0
13	MP7	X	0	0
14	MP7	X	0	0
15	MP8	X	0	0
16	MP8	X	0	0
17	MP9	X	0	0
18	MP9	X	0	0
19	MP10	X	0	0
20	MP10	X	0	0
21	MP11	X	0	0
22	MP11	X	0	0
23	MP12	X	0	0
24	MP12	X	0	0
25	MP13	X	0	0
26	MP13	X	0	0
27	MP14	X	0	0
28	MP14	X	0	0
29	MP15	X	0	0
30	MP15	X	0	0
31	MP1	Z	41.2	%58.333

Member Point Loads (BLC 178 : Antenna Wind Load (90 deg)) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
32	MP1	Z	82.3	%95.833
33	MP2	Z	48.1	%41.667
34	MP2	Z	160.4	%95.833
35	MP3	Z	41.2	%58.333
36	MP3	Z	82.3	%95.833
37	MP4	Z	0	0
38	MP4	Z	0	0
39	MP5	Z	12.7	%80.444
40	MP5	Z	12.7	%86.222
41	MP6	Z	34.8	%58.333
42	MP6	Z	69.5	%95.833
43	MP7	Z	137	%41.667
44	MP7	Z	456.7	%95.833
45	MP8	Z	34.8	%58.333
46	MP8	Z	69.5	%95.833
47	MP9	Z	0	0
48	MP9	Z	0	0
49	MP10	Z	22.8	%80.444
50	MP10	Z	22.8	%86.222
51	MP11	Z	36.4	%58.333
52	MP11	Z	72.8	%95.833
53	MP12	Z	36.4	%58.333
54	MP12	Z	72.8	%95.833
55	MP13	Z	137	%41.667
56	MP13	Z	456.7	%95.833
57	MP14	Z	0	0
58	MP14	Z	0	0
59	MP15	Z	22.8	%80.444
60	MP15	Z	22.8	%86.222

Member Point Loads (BLC 179 : Antenna Wind Load (120 deg))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	X	-19.5	%58.333
2	MP1	X	-39	%95.833
3	MP2	X	-38.9	%41.667
4	MP2	X	-129.6	%95.833
5	MP3	X	-19.5	%58.333
6	MP3	X	-39	%95.833
7	MP4	X	0	0
8	MP4	X	0	0
9	MP5	X	-8.1	%80.444
10	MP5	X	-8.1	%86.222
11	MP6	X	-16.3	%58.333
12	MP6	X	-32.6	%95.833
13	MP7	X	-83.3	%41.667
14	MP7	X	-277.7	%95.833
15	MP8	X	-16.3	%58.333
16	MP8	X	-32.6	%95.833
17	MP9	X	0	0
18	MP9	X	0	0
19	MP10	X	-13.1	%80.444
20	MP10	X	-13.1	%86.222
21	MP11	X	-19.8	%58.333
22	MP11	X	-39.6	%95.833
23	MP12	X	-19.8	%58.333
24	MP12	X	-39.6	%95.833

Member Point Loads (BLC 179 : Antenna Wind Load (120 deg)) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
25	MP13	X	-38.9	%41.667
26	MP13	X	-129.6	%95.833
27	MP14	X	0	0
28	MP14	X	0	0
29	MP15	X	-8.1	%80.444
30	MP15	X	-8.1	%86.222
31	MP1	Z	33.8	%58.333
32	MP1	Z	67.6	%95.833
33	MP2	Z	67.3	%41.667
34	MP2	Z	224.5	%95.833
35	MP3	Z	33.8	%58.333
36	MP3	Z	67.6	%95.833
37	MP4	Z	0	0
38	MP4	Z	0	0
39	MP5	Z	14	%80.444
40	MP5	Z	14	%86.222
41	MP6	Z	28.3	%58.333
42	MP6	Z	56.5	%95.833
43	MP7	Z	144.3	%41.667
44	MP7	Z	481.1	%95.833
45	MP8	Z	28.3	%58.333
46	MP8	Z	56.5	%95.833
47	MP9	Z	0	0
48	MP9	Z	0	0
49	MP10	Z	22.7	%80.444
50	MP10	Z	22.7	%86.222
51	MP11	Z	34.3	%58.333
52	MP11	Z	68.5	%95.833
53	MP12	Z	34.3	%58.333
54	MP12	Z	68.5	%95.833
55	MP13	Z	67.3	%41.667
56	MP13	Z	224.5	%95.833
57	MP14	Z	0	0
58	MP14	Z	0	0
59	MP15	Z	14	%80.444
60	MP15	Z	14	%86.222

Member Point Loads (BLC 180 : Antenna Wind Load (150 deg))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	X	-30.1	%58.333
2	MP1	X	-60.2	%95.833
3	MP2	X	-118.7	%41.667
4	MP2	X	-395.5	%95.833
5	MP3	X	-30.1	%58.333
6	MP3	X	-60.2	%95.833
7	MP4	X	0	0
8	MP4	X	0	0
9	MP5	X	-19.8	%80.444
10	MP5	X	-19.8	%86.222
11	MP6	X	-30.1	%58.333
12	MP6	X	-60.2	%95.833
13	MP7	X	-118.7	%41.667
14	MP7	X	-395.5	%95.833
15	MP8	X	-30.1	%58.333
16	MP8	X	-60.2	%95.833
17	MP9	X	0	0

Member Point Loads (BLC 180 : Antenna Wind Load (150 deg)) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
18	MP9	X	0	0
19	MP10	X	-19.8	%80.444
20	MP10	X	-19.8	%86.222
21	MP11	X	-35.6	%58.333
22	MP11	X	-71.3	%95.833
23	MP12	X	-35.6	%58.333
24	MP12	X	-71.3	%95.833
25	MP13	X	-41.7	%41.667
26	MP13	X	-138.9	%95.833
27	MP14	X	0	0
28	MP14	X	0	0
29	MP15	X	-11	%80.444
30	MP15	X	-11	%86.222
31	MP1	Z	17.4	%58.333
32	MP1	Z	34.8	%95.833
33	MP2	Z	68.5	%41.667
34	MP2	Z	228.4	%95.833
35	MP3	Z	17.4	%58.333
36	MP3	Z	34.8	%95.833
37	MP4	Z	0	0
38	MP4	Z	0	0
39	MP5	Z	11.4	%80.444
40	MP5	Z	11.4	%86.222
41	MP6	Z	17.4	%58.333
42	MP6	Z	34.8	%95.833
43	MP7	Z	68.5	%41.667
44	MP7	Z	228.4	%95.833
45	MP8	Z	17.4	%58.333
46	MP8	Z	34.8	%95.833
47	MP9	Z	0	0
48	MP9	Z	0	0
49	MP10	Z	11.4	%80.444
50	MP10	Z	11.4	%86.222
51	MP11	Z	20.6	%58.333
52	MP11	Z	41.2	%95.833
53	MP12	Z	20.6	%58.333
54	MP12	Z	41.2	%95.833
55	MP13	Z	24.1	%41.667
56	MP13	Z	80.2	%95.833
57	MP14	Z	0	0
58	MP14	Z	0	0
59	MP15	Z	6.4	%80.444
60	MP15	Z	6.4	%86.222

Member Point Loads (BLC 181 : Antenna Wind Load (180 deg))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	X	-32.6	%58.333
2	MP1	X	-65.3	%95.833
3	MP2	X	-166.6	%41.667
4	MP2	X	-555.5	%95.833
5	MP3	X	-32.6	%58.333
6	MP3	X	-65.3	%95.833
7	MP4	X	0	0
8	MP4	X	0	0
9	MP5	X	-26.2	%80.444
10	MP5	X	-26.2	%86.222

Member Point Loads (BLC 181 : Antenna Wind Load (180 deg)) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
11	MP6	X	-39	%58.333
12	MP6	X	-78	%95.833
13	MP7	X	-77.8	%41.667
14	MP7	X	-259.2	%95.833
15	MP8	X	-39	%58.333
16	MP8	X	-78	%95.833
17	MP9	X	0	0
18	MP9	X	0	0
19	MP10	X	-16.1	%80.444
20	MP10	X	-16.1	%86.222
21	MP11	X	-39.6	%58.333
22	MP11	X	-79.2	%95.833
23	MP12	X	-39.6	%58.333
24	MP12	X	-79.2	%95.833
25	MP13	X	-77.8	%41.667
26	MP13	X	-259.2	%95.833
27	MP14	X	0	0
28	MP14	X	0	0
29	MP15	X	-16.1	%80.444
30	MP15	X	-16.1	%86.222
31	MP1	Z	0	0
32	MP1	Z	0	0
33	MP2	Z	0	0
34	MP2	Z	0	0
35	MP3	Z	0	0
36	MP3	Z	0	0
37	MP4	Z	0	0
38	MP4	Z	0	0
39	MP5	Z	0	0
40	MP5	Z	0	0
41	MP6	Z	0	0
42	MP6	Z	0	0
43	MP7	Z	0	0
44	MP7	Z	0	0
45	MP8	Z	0	0
46	MP8	Z	0	0
47	MP9	Z	0	0
48	MP9	Z	0	0
49	MP10	Z	0	0
50	MP10	Z	0	0
51	MP11	Z	0	0
52	MP11	Z	0	0
53	MP12	Z	0	0
54	MP12	Z	0	0
55	MP13	Z	0	0
56	MP13	Z	0	0
57	MP14	Z	0	0
58	MP14	Z	0	0
59	MP15	Z	0	0
60	MP15	Z	0	0

Member Point Loads (BLC 182 : Antenna Wind Load (210 deg))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	X	-30.1	%58.333
2	MP1	X	-60.2	%95.833
3	MP2	X	-118.7	%41.667

Member Point Loads (BLC 182 : Antenna Wind Load (210 deg)) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
4	MP2	X	-395.5	%95.833
5	MP3	X	-30.1	%58.333
6	MP3	X	-60.2	%95.833
7	MP4	X	0	0
8	MP4	X	0	0
9	MP5	X	-19.8	%80.444
10	MP5	X	-19.8	%86.222
11	MP6	X	-35.6	%58.333
12	MP6	X	-71.3	%95.833
13	MP7	X	-41.7	%41.667
14	MP7	X	-138.9	%95.833
15	MP8	X	-35.6	%58.333
16	MP8	X	-71.3	%95.833
17	MP9	X	0	0
18	MP9	X	0	0
19	MP10	X	-11	%80.444
20	MP10	X	-11	%86.222
21	MP11	X	-31.5	%58.333
22	MP11	X	-63.1	%95.833
23	MP12	X	-31.5	%58.333
24	MP12	X	-63.1	%95.833
25	MP13	X	-118.7	%41.667
26	MP13	X	-395.5	%95.833
27	MP14	X	0	0
28	MP14	X	0	0
29	MP15	X	-19.8	%80.444
30	MP15	X	-19.8	%86.222
31	MP1	Z	-17.4	%58.333
32	MP1	Z	-34.8	%95.833
33	MP2	Z	-68.5	%41.667
34	MP2	Z	-228.4	%95.833
35	MP3	Z	-17.4	%58.333
36	MP3	Z	-34.8	%95.833
37	MP4	Z	0	0
38	MP4	Z	0	0
39	MP5	Z	-11.4	%80.444
40	MP5	Z	-11.4	%86.222
41	MP6	Z	-20.6	%58.333
42	MP6	Z	-41.2	%95.833
43	MP7	Z	-24.1	%41.667
44	MP7	Z	-80.2	%95.833
45	MP8	Z	-20.6	%58.333
46	MP8	Z	-41.2	%95.833
47	MP9	Z	0	0
48	MP9	Z	0	0
49	MP10	Z	-6.4	%80.444
50	MP10	Z	-6.4	%86.222
51	MP11	Z	-18.2	%58.333
52	MP11	Z	-36.4	%95.833
53	MP12	Z	-18.2	%58.333
54	MP12	Z	-36.4	%95.833
55	MP13	Z	-68.5	%41.667
56	MP13	Z	-228.4	%95.833
57	MP14	Z	0	0
58	MP14	Z	0	0
59	MP15	Z	-11.4	%80.444
60	MP15	Z	-11.4	%86.222

Member Point Loads (BLC 183 : Antenna Wind Load (240 deg))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	X	-19.5	%58.333
2	MP1	X	-39	%95.833
3	MP2	X	-38.9	%41.667
4	MP2	X	-129.6	%95.833
5	MP3	X	-19.5	%58.333
6	MP3	X	-39	%95.833
7	MP4	X	0	0
8	MP4	X	0	0
9	MP5	X	-8.1	%80.444
10	MP5	X	-8.1	%86.222
11	MP6	X	-19.5	%58.333
12	MP6	X	-39	%95.833
13	MP7	X	-38.9	%41.667
14	MP7	X	-129.6	%95.833
15	MP8	X	-19.5	%58.333
16	MP8	X	-39	%95.833
17	MP9	X	0	0
18	MP9	X	0	0
19	MP10	X	-8.1	%80.444
20	MP10	X	-8.1	%86.222
21	MP11	X	-17.4	%58.333
22	MP11	X	-34.8	%95.833
23	MP12	X	-17.4	%58.333
24	MP12	X	-34.8	%95.833
25	MP13	X	-83.3	%41.667
26	MP13	X	-277.7	%95.833
27	MP14	X	0	0
28	MP14	X	0	0
29	MP15	X	-13.1	%80.444
30	MP15	X	-13.1	%86.222
31	MP1	Z	-33.8	%58.333
32	MP1	Z	-67.6	%95.833
33	MP2	Z	-67.3	%41.667
34	MP2	Z	-224.5	%95.833
35	MP3	Z	-33.8	%58.333
36	MP3	Z	-67.6	%95.833
37	MP4	Z	0	0
38	MP4	Z	0	0
39	MP5	Z	-14	%80.444
40	MP5	Z	-14	%86.222
41	MP6	Z	-33.8	%58.333
42	MP6	Z	-67.6	%95.833
43	MP7	Z	-67.3	%41.667
44	MP7	Z	-224.5	%95.833
45	MP8	Z	-33.8	%58.333
46	MP8	Z	-67.6	%95.833
47	MP9	Z	0	0
48	MP9	Z	0	0
49	MP10	Z	-14	%80.444
50	MP10	Z	-14	%86.222
51	MP11	Z	-30.2	%58.333
52	MP11	Z	-60.4	%95.833
53	MP12	Z	-30.2	%58.333
54	MP12	Z	-60.4	%95.833
55	MP13	Z	-144.3	%41.667
56	MP13	Z	-481.1	%95.833
57	MP14	Z	0	0

Member Point Loads (BLC 183 : Antenna Wind Load (240 deg)) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
58	MP14	Z	0	0
59	MP15	Z	-22.7	%80.444
60	MP15	Z	-22.7	%86.222

Member Point Loads (BLC 184 : Antenna Wind Load (270 deg))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	X	0	0
2	MP1	X	0	0
3	MP2	X	0	0
4	MP2	X	0	0
5	MP3	X	0	0
6	MP3	X	0	0
7	MP4	X	0	0
8	MP4	X	0	0
9	MP5	X	0	0
10	MP5	X	0	0
11	MP6	X	0	0
12	MP6	X	0	0
13	MP7	X	0	0
14	MP7	X	0	0
15	MP8	X	0	0
16	MP8	X	0	0
17	MP9	X	0	0
18	MP9	X	0	0
19	MP10	X	0	0
20	MP10	X	0	0
21	MP11	X	0	0
22	MP11	X	0	0
23	MP12	X	0	0
24	MP12	X	0	0
25	MP13	X	0	0
26	MP13	X	0	0
27	MP14	X	0	0
28	MP14	X	0	0
29	MP15	X	0	0
30	MP15	X	0	0
31	MP1	Z	-41.2	%58.333
32	MP1	Z	-82.3	%95.833
33	MP2	Z	-48.1	%41.667
34	MP2	Z	-160.4	%95.833
35	MP3	Z	-41.2	%58.333
36	MP3	Z	-82.3	%95.833
37	MP4	Z	0	0
38	MP4	Z	0	0
39	MP5	Z	-12.7	%80.444
40	MP5	Z	-12.7	%86.222
41	MP6	Z	-34.8	%58.333
42	MP6	Z	-69.5	%95.833
43	MP7	Z	-137	%41.667
44	MP7	Z	-456.7	%95.833
45	MP8	Z	-34.8	%58.333
46	MP8	Z	-69.5	%95.833
47	MP9	Z	0	0
48	MP9	Z	0	0
49	MP10	Z	-22.8	%80.444
50	MP10	Z	-22.8	%86.222

Member Point Loads (BLC 184 : Antenna Wind Load (270 deg)) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
51	MP11	Z	-36.4	%58.333
52	MP11	Z	-72.8	%95.833
53	MP12	Z	-36.4	%58.333
54	MP12	Z	-72.8	%95.833
55	MP13	Z	-137	%41.667
56	MP13	Z	-456.7	%95.833
57	MP14	Z	0	0
58	MP14	Z	0	0
59	MP15	Z	-22.8	%80.444
60	MP15	Z	-22.8	%86.222

Member Point Loads (BLC 185 : Antenna Wind Load (300 deg))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	X	19.5	%58.333
2	MP1	X	39	%95.833
3	MP2	X	38.9	%41.667
4	MP2	X	129.6	%95.833
5	MP3	X	19.5	%58.333
6	MP3	X	39	%95.833
7	MP4	X	0	0
8	MP4	X	0	0
9	MP5	X	8.1	%80.444
10	MP5	X	8.1	%86.222
11	MP6	X	16.3	%58.333
12	MP6	X	32.6	%95.833
13	MP7	X	83.3	%41.667
14	MP7	X	277.7	%95.833
15	MP8	X	16.3	%58.333
16	MP8	X	32.6	%95.833
17	MP9	X	0	0
18	MP9	X	0	0
19	MP10	X	13.1	%80.444
20	MP10	X	13.1	%86.222
21	MP11	X	19.8	%58.333
22	MP11	X	39.6	%95.833
23	MP12	X	19.8	%58.333
24	MP12	X	39.6	%95.833
25	MP13	X	38.9	%41.667
26	MP13	X	129.6	%95.833
27	MP14	X	0	0
28	MP14	X	0	0
29	MP15	X	8.1	%80.444
30	MP15	X	8.1	%86.222
31	MP1	Z	-33.8	%58.333
32	MP1	Z	-67.6	%95.833
33	MP2	Z	-67.3	%41.667
34	MP2	Z	-224.5	%95.833
35	MP3	Z	-33.8	%58.333
36	MP3	Z	-67.6	%95.833
37	MP4	Z	0	0
38	MP4	Z	0	0
39	MP5	Z	-14	%80.444
40	MP5	Z	-14	%86.222
41	MP6	Z	-28.3	%58.333
42	MP6	Z	-56.5	%95.833
43	MP7	Z	-144.3	%41.667

Member Point Loads (BLC 185 : Antenna Wind Load (300 deg)) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
44	MP7	Z	-481.1	%95.833
45	MP8	Z	-28.3	%58.333
46	MP8	Z	-56.5	%95.833
47	MP9	Z	0	0
48	MP9	Z	0	0
49	MP10	Z	-22.7	%80.444
50	MP10	Z	-22.7	%86.222
51	MP11	Z	-34.3	%58.333
52	MP11	Z	-68.5	%95.833
53	MP12	Z	-34.3	%58.333
54	MP12	Z	-68.5	%95.833
55	MP13	Z	-67.3	%41.667
56	MP13	Z	-224.5	%95.833
57	MP14	Z	0	0
58	MP14	Z	0	0
59	MP15	Z	-14	%80.444
60	MP15	Z	-14	%86.222

Member Point Loads (BLC 186 : Antenna Wind Load (330 deg))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	X	30.1	%58.333
2	MP1	X	60.2	%95.833
3	MP2	X	118.7	%41.667
4	MP2	X	395.5	%95.833
5	MP3	X	30.1	%58.333
6	MP3	X	60.2	%95.833
7	MP4	X	0	0
8	MP4	X	0	0
9	MP5	X	19.8	%80.444
10	MP5	X	19.8	%86.222
11	MP6	X	30.1	%58.333
12	MP6	X	60.2	%95.833
13	MP7	X	118.7	%41.667
14	MP7	X	395.5	%95.833
15	MP8	X	30.1	%58.333
16	MP8	X	60.2	%95.833
17	MP9	X	0	0
18	MP9	X	0	0
19	MP10	X	19.8	%80.444
20	MP10	X	19.8	%86.222
21	MP11	X	35.6	%58.333
22	MP11	X	71.3	%95.833
23	MP12	X	35.6	%58.333
24	MP12	X	71.3	%95.833
25	MP13	X	41.7	%41.667
26	MP13	X	138.9	%95.833
27	MP14	X	0	0
28	MP14	X	0	0
29	MP15	X	11	%80.444
30	MP15	X	11	%86.222
31	MP1	Z	-17.4	%58.333
32	MP1	Z	-34.8	%95.833
33	MP2	Z	-68.5	%41.667
34	MP2	Z	-228.4	%95.833
35	MP3	Z	-17.4	%58.333
36	MP3	Z	-34.8	%95.833

Member Point Loads (BLC 186 : Antenna Wind Load (330 deg)) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
37	MP4	Z	0	0
38	MP4	Z	0	0
39	MP5	Z	-11.4	%80.444
40	MP5	Z	-11.4	%86.222
41	MP6	Z	-17.4	%58.333
42	MP6	Z	-34.8	%95.833
43	MP7	Z	-68.5	%41.667
44	MP7	Z	-228.4	%95.833
45	MP8	Z	-17.4	%58.333
46	MP8	Z	-34.8	%95.833
47	MP9	Z	0	0
48	MP9	Z	0	0
49	MP10	Z	-11.4	%80.444
50	MP10	Z	-11.4	%86.222
51	MP11	Z	-20.6	%58.333
52	MP11	Z	-41.2	%95.833
53	MP12	Z	-20.6	%58.333
54	MP12	Z	-41.2	%95.833
55	MP13	Z	-24.1	%41.667
56	MP13	Z	-80.2	%95.833
57	MP14	Z	0	0
58	MP14	Z	0	0
59	MP15	Z	-6.4	%80.444
60	MP15	Z	-6.4	%86.222

Member Point Loads (BLC 187 : Antenna Wind on Ice (0 deg))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	X	7.1	%58.333
2	MP1	X	14.3	%95.833
3	MP2	X	38	%41.667
4	MP2	X	126.6	%95.833
5	MP3	X	7.1	%58.333
6	MP3	X	14.3	%95.833
7	MP4	X	0	0
8	MP4	X	0	0
9	MP5	X	5.5	%80.444
10	MP5	X	5.5	%86.222
11	MP6	X	8.5	%58.333
12	MP6	X	16.9	%95.833
13	MP7	X	18.9	%41.667
14	MP7	X	63.1	%95.833
15	MP8	X	8.5	%58.333
16	MP8	X	16.9	%95.833
17	MP9	X	0	0
18	MP9	X	0	0
19	MP10	X	4	%80.444
20	MP10	X	4	%86.222
21	MP11	X	8.6	%58.333
22	MP11	X	17.1	%95.833
23	MP12	X	8.6	%58.333
24	MP12	X	17.1	%95.833
25	MP13	X	18.9	%41.667
26	MP13	X	63.1	%95.833
27	MP14	X	0	0
28	MP14	X	0	0
29	MP15	X	4	%80.444

Member Point Loads (BLC 187 : Antenna Wind on Ice (0 deg)) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
30	MP15	X	4	%86.222
31	MP1	Z	0	0
32	MP1	Z	0	0
33	MP2	Z	0	0
34	MP2	Z	0	0
35	MP3	Z	0	0
36	MP3	Z	0	0
37	MP4	Z	0	0
38	MP4	Z	0	0
39	MP5	Z	0	0
40	MP5	Z	0	0
41	MP6	Z	0	0
42	MP6	Z	0	0
43	MP7	Z	0	0
44	MP7	Z	0	0
45	MP8	Z	0	0
46	MP8	Z	0	0
47	MP9	Z	0	0
48	MP9	Z	0	0
49	MP10	Z	0	0
50	MP10	Z	0	0
51	MP11	Z	0	0
52	MP11	Z	0	0
53	MP12	Z	0	0
54	MP12	Z	0	0
55	MP13	Z	0	0
56	MP13	Z	0	0
57	MP14	Z	0	0
58	MP14	Z	0	0
59	MP15	Z	0	0
60	MP15	Z	0	0

Member Point Loads (BLC 188 : Antenna Wind on Ice (30 deg))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	X	6.6	%58.333
2	MP1	X	13.1	%95.833
3	MP2	X	27.4	%41.667
4	MP2	X	91.3	%95.833
5	MP3	X	6.6	%58.333
6	MP3	X	13.1	%95.833
7	MP4	X	0	0
8	MP4	X	0	0
9	MP5	X	4.3	%80.444
10	MP5	X	4.3	%86.222
11	MP6	X	7.7	%58.333
12	MP6	X	15.4	%95.833
13	MP7	X	10.9	%41.667
14	MP7	X	36.3	%95.833
15	MP8	X	7.7	%58.333
16	MP8	X	15.4	%95.833
17	MP9	X	0	0
18	MP9	X	0	0
19	MP10	X	3	%80.444
20	MP10	X	3	%86.222
21	MP11	X	6.8	%58.333
22	MP11	X	13.6	%95.833

Member Point Loads (BLC 188 : Antenna Wind on Ice (30 deg)) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
23	MP12	X	6.8	%58.333
24	MP12	X	13.6	%95.833
25	MP13	X	27.4	%41.667
26	MP13	X	91.3	%95.833
27	MP14	X	0	0
28	MP14	X	0	0
29	MP15	X	4.3	%80.444
30	MP15	X	4.3	%86.222
31	MP1	Z	3.8	%58.333
32	MP1	Z	7.6	%95.833
33	MP2	Z	15.8	%41.667
34	MP2	Z	52.7	%95.833
35	MP3	Z	3.8	%58.333
36	MP3	Z	7.6	%95.833
37	MP4	Z	0	0
38	MP4	Z	0	0
39	MP5	Z	2.5	%80.444
40	MP5	Z	2.5	%86.222
41	MP6	Z	4.4	%58.333
42	MP6	Z	8.9	%95.833
43	MP7	Z	6.3	%41.667
44	MP7	Z	21	%95.833
45	MP8	Z	4.4	%58.333
46	MP8	Z	8.9	%95.833
47	MP9	Z	0	0
48	MP9	Z	0	0
49	MP10	Z	1.7	%80.444
50	MP10	Z	1.7	%86.222
51	MP11	Z	3.9	%58.333
52	MP11	Z	7.9	%95.833
53	MP12	Z	3.9	%58.333
54	MP12	Z	7.9	%95.833
55	MP13	Z	15.8	%41.667
56	MP13	Z	52.7	%95.833
57	MP14	Z	0	0
58	MP14	Z	0	0
59	MP15	Z	2.5	%80.444
60	MP15	Z	2.5	%86.222

Member Point Loads (BLC 189 : Antenna Wind on Ice (60 deg))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	X	4.2	%58.333
2	MP1	X	8.5	%95.833
3	MP2	X	9.5	%41.667
4	MP2	X	31.6	%95.833
5	MP3	X	4.2	%58.333
6	MP3	X	8.5	%95.833
7	MP4	X	0	0
8	MP4	X	0	0
9	MP5	X	2	%80.444
10	MP5	X	2	%86.222
11	MP6	X	4.2	%58.333
12	MP6	X	8.5	%95.833
13	MP7	X	9.5	%41.667
14	MP7	X	31.6	%95.833
15	MP8	X	4.2	%58.333

Member Point Loads (BLC 189 : Antenna Wind on Ice (60 deg)) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
16	MP8	X	8.5	%95.833
17	MP9	X	0	0
18	MP9	X	0	0
19	MP10	X	2	%80.444
20	MP10	X	2	%86.222
21	MP11	X	3.8	%58.333
22	MP11	X	7.5	%95.833
23	MP12	X	3.8	%58.333
24	MP12	X	7.5	%95.833
25	MP13	X	19	%41.667
26	MP13	X	63.3	%95.833
27	MP14	X	0	0
28	MP14	X	0	0
29	MP15	X	2.8	%80.444
30	MP15	X	2.8	%86.222
31	MP1	Z	7.3	%58.333
32	MP1	Z	14.6	%95.833
33	MP2	Z	16.4	%41.667
34	MP2	Z	54.7	%95.833
35	MP3	Z	7.3	%58.333
36	MP3	Z	14.6	%95.833
37	MP4	Z	0	0
38	MP4	Z	0	0
39	MP5	Z	3.4	%80.444
40	MP5	Z	3.4	%86.222
41	MP6	Z	7.3	%58.333
42	MP6	Z	14.6	%95.833
43	MP7	Z	16.4	%41.667
44	MP7	Z	54.7	%95.833
45	MP8	Z	7.3	%58.333
46	MP8	Z	14.6	%95.833
47	MP9	Z	0	0
48	MP9	Z	0	0
49	MP10	Z	3.4	%80.444
50	MP10	Z	3.4	%86.222
51	MP11	Z	6.5	%58.333
52	MP11	Z	13	%95.833
53	MP12	Z	6.5	%58.333
54	MP12	Z	13	%95.833
55	MP13	Z	32.9	%41.667
56	MP13	Z	109.7	%95.833
57	MP14	Z	0	0
58	MP14	Z	0	0
59	MP15	Z	4.8	%80.444
60	MP15	Z	4.8	%86.222

Member Point Loads (BLC 190 : Antenna Wind on Ice (90 deg))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	X	0	0
2	MP1	X	0	0
3	MP2	X	0	0
4	MP2	X	0	0
5	MP3	X	0	0
6	MP3	X	0	0
7	MP4	X	0	0
8	MP4	X	0	0

Member Point Loads (BLC 190 : Antenna Wind on Ice (90 deg)) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
9	MP5	X	0	0
10	MP5	X	0	0
11	MP6	X	0	0
12	MP6	X	0	0
13	MP7	X	0	0
14	MP7	X	0	0
15	MP8	X	0	0
16	MP8	X	0	0
17	MP9	X	0	0
18	MP9	X	0	0
19	MP10	X	0	0
20	MP10	X	0	0
21	MP11	X	0	0
22	MP11	X	0	0
23	MP12	X	0	0
24	MP12	X	0	0
25	MP13	X	0	0
26	MP13	X	0	0
27	MP14	X	0	0
28	MP14	X	0	0
29	MP15	X	0	0
30	MP15	X	0	0
31	MP1	Z	8.9	%58.333
32	MP1	Z	17.8	%95.833
33	MP2	Z	12.6	%41.667
34	MP2	Z	42	%95.833
35	MP3	Z	8.9	%58.333
36	MP3	Z	17.8	%95.833
37	MP4	Z	0	0
38	MP4	Z	0	0
39	MP5	Z	3.4	%80.444
40	MP5	Z	3.4	%86.222
41	MP6	Z	7.6	%58.333
42	MP6	Z	15.2	%95.833
43	MP7	Z	31.6	%41.667
44	MP7	Z	105.5	%95.833
45	MP8	Z	7.6	%58.333
46	MP8	Z	15.2	%95.833
47	MP9	Z	0	0
48	MP9	Z	0	0
49	MP10	Z	5	%80.444
50	MP10	Z	5	%86.222
51	MP11	Z	7.9	%58.333
52	MP11	Z	15.7	%95.833
53	MP12	Z	7.9	%58.333
54	MP12	Z	15.7	%95.833
55	MP13	Z	31.6	%41.667
56	MP13	Z	105.5	%95.833
57	MP14	Z	0	0
58	MP14	Z	0	0
59	MP15	Z	5	%80.444
60	MP15	Z	5	%86.222

Member Point Loads (BLC 191 : Antenna Wind on Ice (120 deg))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	X	-4.2	%58.333

Member Point Loads (BLC 191 : Antenna Wind on Ice (120 deg)) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
2	MP1	X	-8.5	%95.833
3	MP2	X	-9.5	%41.667
4	MP2	X	-31.6	%95.833
5	MP3	X	-4.2	%58.333
6	MP3	X	-8.5	%95.833
7	MP4	X	0	0
8	MP4	X	0	0
9	MP5	X	-2	%80.444
10	MP5	X	-2	%86.222
11	MP6	X	-3.6	%58.333
12	MP6	X	-7.1	%95.833
13	MP7	X	-19	%41.667
14	MP7	X	-63.3	%95.833
15	MP8	X	-3.6	%58.333
16	MP8	X	-7.1	%95.833
17	MP9	X	0	0
18	MP9	X	0	0
19	MP10	X	-2.8	%80.444
20	MP10	X	-2.8	%86.222
21	MP11	X	-4.3	%58.333
22	MP11	X	-8.6	%95.833
23	MP12	X	-4.3	%58.333
24	MP12	X	-8.6	%95.833
25	MP13	X	-9.5	%41.667
26	MP13	X	-31.6	%95.833
27	MP14	X	0	0
28	MP14	X	0	0
29	MP15	X	-2	%80.444
30	MP15	X	-2	%86.222
31	MP1	Z	7.3	%58.333
32	MP1	Z	14.6	%95.833
33	MP2	Z	16.4	%41.667
34	MP2	Z	54.7	%95.833
35	MP3	Z	7.3	%58.333
36	MP3	Z	14.6	%95.833
37	MP4	Z	0	0
38	MP4	Z	0	0
39	MP5	Z	3.4	%80.444
40	MP5	Z	3.4	%86.222
41	MP6	Z	6.2	%58.333
42	MP6	Z	12.4	%95.833
43	MP7	Z	32.9	%41.667
44	MP7	Z	109.7	%95.833
45	MP8	Z	6.2	%58.333
46	MP8	Z	12.4	%95.833
47	MP9	Z	0	0
48	MP9	Z	0	0
49	MP10	Z	4.8	%80.444
50	MP10	Z	4.8	%86.222
51	MP11	Z	7.4	%58.333
52	MP11	Z	14.8	%95.833
53	MP12	Z	7.4	%58.333
54	MP12	Z	14.8	%95.833
55	MP13	Z	16.4	%41.667
56	MP13	Z	54.7	%95.833
57	MP14	Z	0	0
58	MP14	Z	0	0

Member Point Loads (BLC 191 : Antenna Wind on Ice (120 deg)) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
59	MP15	Z	3.4	%80.444
60	MP15	Z	3.4	%86.222

Member Point Loads (BLC 192 : Antenna Wind on Ice (150 deg))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	X	-6.6	%58.333
2	MP1	X	-13.1	%95.833
3	MP2	X	-27.4	%41.667
4	MP2	X	-91.3	%95.833
5	MP3	X	-6.6	%58.333
6	MP3	X	-13.1	%95.833
7	MP4	X	0	0
8	MP4	X	0	0
9	MP5	X	-4.3	%80.444
10	MP5	X	-4.3	%86.222
11	MP6	X	-6.6	%58.333
12	MP6	X	-13.1	%95.833
13	MP7	X	-27.4	%41.667
14	MP7	X	-91.3	%95.833
15	MP8	X	-6.6	%58.333
16	MP8	X	-13.1	%95.833
17	MP9	X	0	0
18	MP9	X	0	0
19	MP10	X	-4.3	%80.444
20	MP10	X	-4.3	%86.222
21	MP11	X	-7.7	%58.333
22	MP11	X	-15.4	%95.833
23	MP12	X	-7.7	%58.333
24	MP12	X	-15.4	%95.833
25	MP13	X	-10.9	%41.667
26	MP13	X	-36.3	%95.833
27	MP14	X	0	0
28	MP14	X	0	0
29	MP15	X	-3	%80.444
30	MP15	X	-3	%86.222
31	MP1	Z	3.8	%58.333
32	MP1	Z	7.6	%95.833
33	MP2	Z	15.8	%41.667
34	MP2	Z	52.7	%95.833
35	MP3	Z	3.8	%58.333
36	MP3	Z	7.6	%95.833
37	MP4	Z	0	0
38	MP4	Z	0	0
39	MP5	Z	2.5	%80.444
40	MP5	Z	2.5	%86.222
41	MP6	Z	3.8	%58.333
42	MP6	Z	7.6	%95.833
43	MP7	Z	15.8	%41.667
44	MP7	Z	52.7	%95.833
45	MP8	Z	3.8	%58.333
46	MP8	Z	7.6	%95.833
47	MP9	Z	0	0
48	MP9	Z	0	0
49	MP10	Z	2.5	%80.444
50	MP10	Z	2.5	%86.222
51	MP11	Z	4.4	%58.333

Member Point Loads (BLC 192 : Antenna Wind on Ice (150 deg)) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
52	MP11	Z	8.9	%95.833
53	MP12	Z	4.4	%58.333
54	MP12	Z	8.9	%95.833
55	MP13	Z	6.3	%41.667
56	MP13	Z	21	%95.833
57	MP14	Z	0	0
58	MP14	Z	0	0
59	MP15	Z	1.7	%80.444
60	MP15	Z	1.7	%86.222

Member Point Loads (BLC 193 : Antenna Wind on Ice (180 deg))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	X	-7.1	%58.333
2	MP1	X	-14.3	%95.833
3	MP2	X	-38	%41.667
4	MP2	X	-126.6	%95.833
5	MP3	X	-7.1	%58.333
6	MP3	X	-14.3	%95.833
7	MP4	X	0	0
8	MP4	X	0	0
9	MP5	X	-5.5	%80.444
10	MP5	X	-5.5	%86.222
11	MP6	X	-8.5	%58.333
12	MP6	X	-16.9	%95.833
13	MP7	X	-18.9	%41.667
14	MP7	X	-63.1	%95.833
15	MP8	X	-8.5	%58.333
16	MP8	X	-16.9	%95.833
17	MP9	X	0	0
18	MP9	X	0	0
19	MP10	X	-4	%80.444
20	MP10	X	-4	%86.222
21	MP11	X	-8.6	%58.333
22	MP11	X	-17.1	%95.833
23	MP12	X	-8.6	%58.333
24	MP12	X	-17.1	%95.833
25	MP13	X	-18.9	%41.667
26	MP13	X	-63.1	%95.833
27	MP14	X	0	0
28	MP14	X	0	0
29	MP15	X	-4	%80.444
30	MP15	X	-4	%86.222
31	MP1	Z	0	0
32	MP1	Z	0	0
33	MP2	Z	0	0
34	MP2	Z	0	0
35	MP3	Z	0	0
36	MP3	Z	0	0
37	MP4	Z	0	0
38	MP4	Z	0	0
39	MP5	Z	0	0
40	MP5	Z	0	0
41	MP6	Z	0	0
42	MP6	Z	0	0
43	MP7	Z	0	0
44	MP7	Z	0	0

Member Point Loads (BLC 193 : Antenna Wind on Ice (180 deg)) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
45	MP8	Z	0	0
46	MP8	Z	0	0
47	MP9	Z	0	0
48	MP9	Z	0	0
49	MP10	Z	0	0
50	MP10	Z	0	0
51	MP11	Z	0	0
52	MP11	Z	0	0
53	MP12	Z	0	0
54	MP12	Z	0	0
55	MP13	Z	0	0
56	MP13	Z	0	0
57	MP14	Z	0	0
58	MP14	Z	0	0
59	MP15	Z	0	0
60	MP15	Z	0	0

Member Point Loads (BLC 194 : Antenna Wind on Ice (210 deg))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	X	-6.6	%58.333
2	MP1	X	-13.1	%95.833
3	MP2	X	-27.4	%41.667
4	MP2	X	-91.3	%95.833
5	MP3	X	-6.6	%58.333
6	MP3	X	-13.1	%95.833
7	MP4	X	0	0
8	MP4	X	0	0
9	MP5	X	-4.3	%80.444
10	MP5	X	-4.3	%86.222
11	MP6	X	-7.7	%58.333
12	MP6	X	-15.4	%95.833
13	MP7	X	-10.9	%41.667
14	MP7	X	-36.3	%95.833
15	MP8	X	-7.7	%58.333
16	MP8	X	-15.4	%95.833
17	MP9	X	0	0
18	MP9	X	0	0
19	MP10	X	-3	%80.444
20	MP10	X	-3	%86.222
21	MP11	X	-6.8	%58.333
22	MP11	X	-13.6	%95.833
23	MP12	X	-6.8	%58.333
24	MP12	X	-13.6	%95.833
25	MP13	X	-27.4	%41.667
26	MP13	X	-91.3	%95.833
27	MP14	X	0	0
28	MP14	X	0	0
29	MP15	X	-4.3	%80.444
30	MP15	X	-4.3	%86.222
31	MP1	Z	-3.8	%58.333
32	MP1	Z	-7.6	%95.833
33	MP2	Z	-15.8	%41.667
34	MP2	Z	-52.7	%95.833
35	MP3	Z	-3.8	%58.333
36	MP3	Z	-7.6	%95.833
37	MP4	Z	0	0

Member Point Loads (BLC 194 : Antenna Wind on Ice (210 deg)) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
38	MP4	Z	0	0
39	MP5	Z	-2.5	%80.444
40	MP5	Z	-2.5	%86.222
41	MP6	Z	-4.4	%58.333
42	MP6	Z	-8.9	%95.833
43	MP7	Z	-6.3	%41.667
44	MP7	Z	-21	%95.833
45	MP8	Z	-4.4	%58.333
46	MP8	Z	-8.9	%95.833
47	MP9	Z	0	0
48	MP9	Z	0	0
49	MP10	Z	-1.7	%80.444
50	MP10	Z	-1.7	%86.222
51	MP11	Z	-3.9	%58.333
52	MP11	Z	-7.9	%95.833
53	MP12	Z	-3.9	%58.333
54	MP12	Z	-7.9	%95.833
55	MP13	Z	-15.8	%41.667
56	MP13	Z	-52.7	%95.833
57	MP14	Z	0	0
58	MP14	Z	0	0
59	MP15	Z	-2.5	%80.444
60	MP15	Z	-2.5	%86.222

Member Point Loads (BLC 195 : Antenna Wind on Ice (240 deg))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	X	-4.2	%58.333
2	MP1	X	-8.5	%95.833
3	MP2	X	-9.5	%41.667
4	MP2	X	-31.6	%95.833
5	MP3	X	-4.2	%58.333
6	MP3	X	-8.5	%95.833
7	MP4	X	0	0
8	MP4	X	0	0
9	MP5	X	-2	%80.444
10	MP5	X	-2	%86.222
11	MP6	X	-4.2	%58.333
12	MP6	X	-8.5	%95.833
13	MP7	X	-9.5	%41.667
14	MP7	X	-31.6	%95.833
15	MP8	X	-4.2	%58.333
16	MP8	X	-8.5	%95.833
17	MP9	X	0	0
18	MP9	X	0	0
19	MP10	X	-2	%80.444
20	MP10	X	-2	%86.222
21	MP11	X	-3.8	%58.333
22	MP11	X	-7.5	%95.833
23	MP12	X	-3.8	%58.333
24	MP12	X	-7.5	%95.833
25	MP13	X	-19	%41.667
26	MP13	X	-63.3	%95.833
27	MP14	X	0	0
28	MP14	X	0	0
29	MP15	X	-2.8	%80.444
30	MP15	X	-2.8	%86.222

Member Point Loads (BLC 195 : Antenna Wind on Ice (240 deg)) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
31	MP1	Z	-7.3	%58.333
32	MP1	Z	-14.6	%95.833
33	MP2	Z	-16.4	%41.667
34	MP2	Z	-54.7	%95.833
35	MP3	Z	-7.3	%58.333
36	MP3	Z	-14.6	%95.833
37	MP4	Z	0	0
38	MP4	Z	0	0
39	MP5	Z	-3.4	%80.444
40	MP5	Z	-3.4	%86.222
41	MP6	Z	-7.3	%58.333
42	MP6	Z	-14.6	%95.833
43	MP7	Z	-16.4	%41.667
44	MP7	Z	-54.7	%95.833
45	MP8	Z	-7.3	%58.333
46	MP8	Z	-14.6	%95.833
47	MP9	Z	0	0
48	MP9	Z	0	0
49	MP10	Z	-3.4	%80.444
50	MP10	Z	-3.4	%86.222
51	MP11	Z	-6.5	%58.333
52	MP11	Z	-13	%95.833
53	MP12	Z	-6.5	%58.333
54	MP12	Z	-13	%95.833
55	MP13	Z	-32.9	%41.667
56	MP13	Z	-109.7	%95.833
57	MP14	Z	0	0
58	MP14	Z	0	0
59	MP15	Z	-4.8	%80.444
60	MP15	Z	-4.8	%86.222

Member Point Loads (BLC 196 : Antenna Wind on Ice (270 deg))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	X	0	0
2	MP1	X	0	0
3	MP2	X	0	0
4	MP2	X	0	0
5	MP3	X	0	0
6	MP3	X	0	0
7	MP4	X	0	0
8	MP4	X	0	0
9	MP5	X	0	0
10	MP5	X	0	0
11	MP6	X	0	0
12	MP6	X	0	0
13	MP7	X	0	0
14	MP7	X	0	0
15	MP8	X	0	0
16	MP8	X	0	0
17	MP9	X	0	0
18	MP9	X	0	0
19	MP10	X	0	0
20	MP10	X	0	0
21	MP11	X	0	0
22	MP11	X	0	0
23	MP12	X	0	0

Member Point Loads (BLC 196 : Antenna Wind on Ice (270 deg)) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
24	MP12	X	0	0
25	MP13	X	0	0
26	MP13	X	0	0
27	MP14	X	0	0
28	MP14	X	0	0
29	MP15	X	0	0
30	MP15	X	0	0
31	MP1	Z	-8.9	%58.333
32	MP1	Z	-17.8	%95.833
33	MP2	Z	-12.6	%41.667
34	MP2	Z	-42	%95.833
35	MP3	Z	-8.9	%58.333
36	MP3	Z	-17.8	%95.833
37	MP4	Z	0	0
38	MP4	Z	0	0
39	MP5	Z	-3.4	%80.444
40	MP5	Z	-3.4	%86.222
41	MP6	Z	-7.6	%58.333
42	MP6	Z	-15.2	%95.833
43	MP7	Z	-31.6	%41.667
44	MP7	Z	-105.5	%95.833
45	MP8	Z	-7.6	%58.333
46	MP8	Z	-15.2	%95.833
47	MP9	Z	0	0
48	MP9	Z	0	0
49	MP10	Z	-5	%80.444
50	MP10	Z	-5	%86.222
51	MP11	Z	-7.9	%58.333
52	MP11	Z	-15.7	%95.833
53	MP12	Z	-7.9	%58.333
54	MP12	Z	-15.7	%95.833
55	MP13	Z	-31.6	%41.667
56	MP13	Z	-105.5	%95.833
57	MP14	Z	0	0
58	MP14	Z	0	0
59	MP15	Z	-5	%80.444
60	MP15	Z	-5	%86.222

Member Point Loads (BLC 197 : Antenna Wind on Ice (300 deg))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	X	4.2	%58.333
2	MP1	X	8.5	%95.833
3	MP2	X	9.5	%41.667
4	MP2	X	31.6	%95.833
5	MP3	X	4.2	%58.333
6	MP3	X	8.5	%95.833
7	MP4	X	0	0
8	MP4	X	0	0
9	MP5	X	2	%80.444
10	MP5	X	2	%86.222
11	MP6	X	3.6	%58.333
12	MP6	X	7.1	%95.833
13	MP7	X	19	%41.667
14	MP7	X	63.3	%95.833
15	MP8	X	3.6	%58.333
16	MP8	X	7.1	%95.833

Member Point Loads (BLC 197 : Antenna Wind on Ice (300 deg)) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
17	MP9	X	0	0
18	MP9	X	0	0
19	MP10	X	2.8	%80.444
20	MP10	X	2.8	%86.222
21	MP11	X	4.3	%58.333
22	MP11	X	8.6	%95.833
23	MP12	X	4.3	%58.333
24	MP12	X	8.6	%95.833
25	MP13	X	9.5	%41.667
26	MP13	X	31.6	%95.833
27	MP14	X	0	0
28	MP14	X	0	0
29	MP15	X	2	%80.444
30	MP15	X	2	%86.222
31	MP1	Z	-7.3	%58.333
32	MP1	Z	-14.6	%95.833
33	MP2	Z	-16.4	%41.667
34	MP2	Z	-54.7	%95.833
35	MP3	Z	-7.3	%58.333
36	MP3	Z	-14.6	%95.833
37	MP4	Z	0	0
38	MP4	Z	0	0
39	MP5	Z	-3.4	%80.444
40	MP5	Z	-3.4	%86.222
41	MP6	Z	-6.2	%58.333
42	MP6	Z	-12.4	%95.833
43	MP7	Z	-32.9	%41.667
44	MP7	Z	-109.7	%95.833
45	MP8	Z	-6.2	%58.333
46	MP8	Z	-12.4	%95.833
47	MP9	Z	0	0
48	MP9	Z	0	0
49	MP10	Z	-4.8	%80.444
50	MP10	Z	-4.8	%86.222
51	MP11	Z	-7.4	%58.333
52	MP11	Z	-14.8	%95.833
53	MP12	Z	-7.4	%58.333
54	MP12	Z	-14.8	%95.833
55	MP13	Z	-16.4	%41.667
56	MP13	Z	-54.7	%95.833
57	MP14	Z	0	0
58	MP14	Z	0	0
59	MP15	Z	-3.4	%80.444
60	MP15	Z	-3.4	%86.222

Member Point Loads (BLC 198 : Antenna Wind on Ice (330 deg))

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP1	X	6.6	%58.333
2	MP1	X	13.1	%95.833
3	MP2	X	27.4	%41.667
4	MP2	X	91.3	%95.833
5	MP3	X	6.6	%58.333
6	MP3	X	13.1	%95.833
7	MP4	X	0	0
8	MP4	X	0	0
9	MP5	X	4.3	%80.444

Member Point Loads (BLC 198 : Antenna Wind on Ice (330 deg)) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
10	MP5	X	4.3	%86.222
11	MP6	X	6.6	%58.333
12	MP6	X	13.1	%95.833
13	MP7	X	27.4	%41.667
14	MP7	X	91.3	%95.833
15	MP8	X	6.6	%58.333
16	MP8	X	13.1	%95.833
17	MP9	X	0	0
18	MP9	X	0	0
19	MP10	X	4.3	%80.444
20	MP10	X	4.3	%86.222
21	MP11	X	7.7	%58.333
22	MP11	X	15.4	%95.833
23	MP12	X	7.7	%58.333
24	MP12	X	15.4	%95.833
25	MP13	X	10.9	%41.667
26	MP13	X	36.3	%95.833
27	MP14	X	0	0
28	MP14	X	0	0
29	MP15	X	3	%80.444
30	MP15	X	3	%86.222
31	MP1	Z	-3.8	%58.333
32	MP1	Z	-7.6	%95.833
33	MP2	Z	-15.8	%41.667
34	MP2	Z	-52.7	%95.833
35	MP3	Z	-3.8	%58.333
36	MP3	Z	-7.6	%95.833
37	MP4	Z	0	0
38	MP4	Z	0	0
39	MP5	Z	-2.5	%80.444
40	MP5	Z	-2.5	%86.222
41	MP6	Z	-3.8	%58.333
42	MP6	Z	-7.6	%95.833
43	MP7	Z	-15.8	%41.667
44	MP7	Z	-52.7	%95.833
45	MP8	Z	-3.8	%58.333
46	MP8	Z	-7.6	%95.833
47	MP9	Z	0	0
48	MP9	Z	0	0
49	MP10	Z	-2.5	%80.444
50	MP10	Z	-2.5	%86.222
51	MP11	Z	-4.4	%58.333
52	MP11	Z	-8.9	%95.833
53	MP12	Z	-4.4	%58.333
54	MP12	Z	-8.9	%95.833
55	MP13	Z	-6.3	%41.667
56	MP13	Z	-21	%95.833
57	MP14	Z	0	0
58	MP14	Z	0	0
59	MP15	Z	-1.7	%80.444
60	MP15	Z	-1.7	%86.222

Member Distributed Loads (BLC 2 : Wind Load (0 deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
1	FM1	X	14.2	14.2	0	0

Member Distributed Loads (BLC 2 : Wind Load (0 deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
2	FM2	X	14.2	14.2	0	0
3	FM3	X	14.2	14.2	0	0
4	SA1	X	0	0	0	0
5	SA2	X	14.2	14.2	0	0
6	SA3	X	14.2	14.2	0	0
7	FM1	Z	0	0	0	0
8	FM2	Z	0	0	0	0
9	FM3	Z	0	0	0	0
10	SA1	Z	0	0	0	0
11	SA2	Z	0	0	0	0
12	SA3	Z	0	0	0	0

Member Distributed Loads (BLC 3 : Wind Load (30 deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
1	FM1	X	12.3	12.3	0	0
2	FM2	X	0	0	0	0
3	FM3	X	12.3	12.3	0	0
4	SA1	X	12.3	12.3	0	0
5	SA2	X	12.3	12.3	0	0
6	SA3	X	12.3	12.3	0	0
7	FM1	Z	7.1	7.1	0	0
8	FM2	Z	0	0	0	0
9	FM3	Z	7.1	7.1	0	0
10	SA1	Z	7.1	7.1	0	0
11	SA2	Z	7.1	7.1	0	0
12	SA3	Z	7.1	7.1	0	0

Member Distributed Loads (BLC 4 : Wind Load (60 deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
1	FM1	X	7.1	7.1	0	0
2	FM2	X	7.1	7.1	0	0
3	FM3	X	7.1	7.1	0	0
4	SA1	X	7.1	7.1	0	0
5	SA2	X	7.1	7.1	0	0
6	SA3	X	0	0	0	0
7	FM1	Z	12.3	12.3	0	0
8	FM2	Z	12.3	12.3	0	0
9	FM3	Z	12.3	12.3	0	0
10	SA1	Z	12.3	12.3	0	0
11	SA2	Z	12.3	12.3	0	0
12	SA3	Z	0	0	0	0

Member Distributed Loads (BLC 5 : Wind Load (90 deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
1	FM1	X	0	0	0	0
2	FM2	X	0	0	0	0
3	FM3	X	0	0	0	0
4	SA1	X	0	0	0	0
5	SA2	X	0	0	0	0
6	SA3	X	0	0	0	0
7	FM1	Z	0	0	0	0
8	FM2	Z	14.2	14.2	0	0
9	FM3	Z	14.2	14.2	0	0
10	SA1	Z	14.2	14.2	0	0
11	SA2	Z	14.2	14.2	0	0

Member Distributed Loads (BLC 5 : Wind Load (90 deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
12	SA3	Z	14.2	14.2	0	0

Member Distributed Loads (BLC 6 : Wind Load (120 deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
1	FM1	X	-7.1	-7.1	0	0
2	FM2	X	-7.1	-7.1	0	0
3	FM3	X	-7.1	-7.1	0	0
4	SA1	X	-7.1	-7.1	0	0
5	SA2	X	0	0	0	0
6	SA3	X	-7.1	-7.1	0	0
7	FM1	Z	12.3	12.3	0	0
8	FM2	Z	12.3	12.3	0	0
9	FM3	Z	12.3	12.3	0	0
10	SA1	Z	12.3	12.3	0	0
11	SA2	Z	0	0	0	0
12	SA3	Z	12.3	12.3	0	0

Member Distributed Loads (BLC 7 : Wind Load (150 deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
1	FM1	X	-12.3	-12.3	0	0
2	FM2	X	-12.3	-12.3	0	0
3	FM3	X	0	0	0	0
4	SA1	X	-12.3	-12.3	0	0
5	SA2	X	-12.3	-12.3	0	0
6	SA3	X	-12.3	-12.3	0	0
7	FM1	Z	7.1	7.1	0	0
8	FM2	Z	7.1	7.1	0	0
9	FM3	Z	0	0	0	0
10	SA1	Z	7.1	7.1	0	0
11	SA2	Z	7.1	7.1	0	0
12	SA3	Z	7.1	7.1	0	0

Member Distributed Loads (BLC 8 : Wind Load (180 deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
1	FM1	X	-14.2	-14.2	0	0
2	FM2	X	-14.2	-14.2	0	0
3	FM3	X	-14.2	-14.2	0	0
4	SA1	X	0	0	0	0
5	SA2	X	-14.2	-14.2	0	0
6	SA3	X	-14.2	-14.2	0	0
7	FM1	Z	0	0	0	0
8	FM2	Z	0	0	0	0
9	FM3	Z	0	0	0	0
10	SA1	Z	0	0	0	0
11	SA2	Z	0	0	0	0
12	SA3	Z	0	0	0	0

Member Distributed Loads (BLC 9 : Wind Load (210 deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
1	FM1	X	-12.3	-12.3	0	0
2	FM2	X	0	0	0	0
3	FM3	X	-12.3	-12.3	0	0
4	SA1	X	-12.3	-12.3	0	0
5	SA2	X	-12.3	-12.3	0	0
6	SA3	X	-12.3	-12.3	0	0

Member Distributed Loads (BLC 9 : Wind Load (210 deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
7	FM1	Z	-7.1	-7.1	0	0
8	FM2	Z	0	0	0	0
9	FM3	Z	-7.1	-7.1	0	0
10	SA1	Z	-7.1	-7.1	0	0
11	SA2	Z	-7.1	-7.1	0	0
12	SA3	Z	-7.1	-7.1	0	0

Member Distributed Loads (BLC 10 : Wind Load (240 deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
1	FM1	X	-7.1	-7.1	0	0
2	FM2	X	-7.1	-7.1	0	0
3	FM3	X	-7.1	-7.1	0	0
4	SA1	X	-7.1	-7.1	0	0
5	SA2	X	-7.1	-7.1	0	0
6	SA3	X	0	0	0	0
7	FM1	Z	-12.3	-12.3	0	0
8	FM2	Z	-12.3	-12.3	0	0
9	FM3	Z	-12.3	-12.3	0	0
10	SA1	Z	-12.3	-12.3	0	0
11	SA2	Z	-12.3	-12.3	0	0
12	SA3	Z	0	0	0	0

Member Distributed Loads (BLC 11 : Wind Load (270 deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
1	FM1	X	0	0	0	0
2	FM2	X	0	0	0	0
3	FM3	X	0	0	0	0
4	SA1	X	0	0	0	0
5	SA2	X	0	0	0	0
6	SA3	X	0	0	0	0
7	FM1	Z	0	0	0	0
8	FM2	Z	-14.2	-14.2	0	0
9	FM3	Z	-14.2	-14.2	0	0
10	SA1	Z	-14.2	-14.2	0	0
11	SA2	Z	-14.2	-14.2	0	0
12	SA3	Z	-14.2	-14.2	0	0

Member Distributed Loads (BLC 12 : Wind Load (300 deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
1	FM1	X	7.1	7.1	0	0
2	FM2	X	7.1	7.1	0	0
3	FM3	X	7.1	7.1	0	0
4	SA1	X	7.1	7.1	0	0
5	SA2	X	0	0	0	0
6	SA3	X	7.1	7.1	0	0
7	FM1	Z	-12.3	-12.3	0	0
8	FM2	Z	-12.3	-12.3	0	0
9	FM3	Z	-12.3	-12.3	0	0
10	SA1	Z	-12.3	-12.3	0	0
11	SA2	Z	0	0	0	0
12	SA3	Z	-12.3	-12.3	0	0

Member Distributed Loads (BLC 13 : Wind Load (330 deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
1	FM1	X	12.3	12.3	0	0

Member Distributed Loads (BLC 13 : Wind Load (330 deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
2	FM2	X	12.3	12.3	0	0
3	FM3	X	0	0	0	0
4	SA1	X	12.3	12.3	0	0
5	SA2	X	12.3	12.3	0	0
6	SA3	X	12.3	12.3	0	0
7	FM1	Z	-7.1	-7.1	0	0
8	FM2	Z	-7.1	-7.1	0	0
9	FM3	Z	0	0	0	0
10	SA1	Z	-7.1	-7.1	0	0
11	SA2	Z	-7.1	-7.1	0	0
12	SA3	Z	-7.1	-7.1	0	0

Member Distributed Loads (BLC 14 : Ice Load)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
1	FM1	Y	-15.6	-15.6	0	0
2	FM2	Y	-15.6	-15.6	0	0
3	FM3	Y	-15.6	-15.6	0	0
4	SA1	Y	-15.6	-15.6	0	0
5	SA2	Y	-15.6	-15.6	0	0
6	SA3	Y	-15.6	-15.6	0	0

Member Distributed Loads (BLC 15 : Wind on Ice (0 deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
1	FM1	X	4.4	4.4	0	0
2	FM2	X	4.4	4.4	0	0
3	FM3	X	4.4	4.4	0	0
4	SA1	X	0	0	0	0
5	SA2	X	4.4	4.4	0	0
6	SA3	X	4.4	4.4	0	0
7	FM1	Z	0	0	0	0
8	FM2	Z	0	0	0	0
9	FM3	Z	0	0	0	0
10	SA1	Z	0	0	0	0
11	SA2	Z	0	0	0	0
12	SA3	Z	0	0	0	0

Member Distributed Loads (BLC 16 : Wind on Ice (30 deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
1	FM1	X	3.8	3.8	0	0
2	FM2	X	0	0	0	0
3	FM3	X	3.8	3.8	0	0
4	SA1	X	3.8	3.8	0	0
5	SA2	X	3.8	3.8	0	0
6	SA3	X	3.8	3.8	0	0
7	FM1	Z	2.2	2.2	0	0
8	FM2	Z	0	0	0	0
9	FM3	Z	2.2	2.2	0	0
10	SA1	Z	2.2	2.2	0	0
11	SA2	Z	2.2	2.2	0	0
12	SA3	Z	2.2	2.2	0	0

Member Distributed Loads (BLC 17 : Wind on Ice (60 deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
1	FM1	X	2.2	2.2	0	0
2	FM2	X	2.2	2.2	0	0

Member Distributed Loads (BLC 17 : Wind on Ice (60 deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
3	FM3	X	2.2	2.2	0	0
4	SA1	X	2.2	2.2	0	0
5	SA2	X	2.2	2.2	0	0
6	SA3	X	0	0	0	0
7	FM1	Z	3.8	3.8	0	0
8	FM2	Z	3.8	3.8	0	0
9	FM3	Z	3.8	3.8	0	0
10	SA1	Z	3.8	3.8	0	0
11	SA2	Z	3.8	3.8	0	0
12	SA3	Z	0	0	0	0

Member Distributed Loads (BLC 18 : Wind on Ice (90 deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
1	FM1	X	0	0	0	0
2	FM2	X	0	0	0	0
3	FM3	X	0	0	0	0
4	SA1	X	0	0	0	0
5	SA2	X	0	0	0	0
6	SA3	X	0	0	0	0
7	FM1	Z	0	0	0	0
8	FM2	Z	4.4	4.4	0	0
9	FM3	Z	4.4	4.4	0	0
10	SA1	Z	4.4	4.4	0	0
11	SA2	Z	4.4	4.4	0	0
12	SA3	Z	4.4	4.4	0	0

Member Distributed Loads (BLC 19 : Wind on Ice (120 deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
1	FM1	X	-2.2	-2.2	0	0
2	FM2	X	-2.2	-2.2	0	0
3	FM3	X	-2.2	-2.2	0	0
4	SA1	X	-2.2	-2.2	0	0
5	SA2	X	0	0	0	0
6	SA3	X	-2.2	-2.2	0	0
7	FM1	Z	3.8	3.8	0	0
8	FM2	Z	3.8	3.8	0	0
9	FM3	Z	3.8	3.8	0	0
10	SA1	Z	3.8	3.8	0	0
11	SA2	Z	0	0	0	0
12	SA3	Z	3.8	3.8	0	0

Member Distributed Loads (BLC 20 : Wind on Ice (150 deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
1	FM1	X	-3.8	-3.8	0	0
2	FM2	X	-3.8	-3.8	0	0
3	FM3	X	0	0	0	0
4	SA1	X	-3.8	-3.8	0	0
5	SA2	X	-3.8	-3.8	0	0
6	SA3	X	-3.8	-3.8	0	0
7	FM1	Z	2.2	2.2	0	0
8	FM2	Z	2.2	2.2	0	0
9	FM3	Z	0	0	0	0
10	SA1	Z	2.2	2.2	0	0
11	SA2	Z	2.2	2.2	0	0
12	SA3	Z	2.2	2.2	0	0

Member Distributed Loads (BLC 21 : Wind on Ice (180 deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
1	FM1	X	-4.4	-4.4	0	0
2	FM2	X	-4.4	-4.4	0	0
3	FM3	X	-4.4	-4.4	0	0
4	SA1	X	0	0	0	0
5	SA2	X	-4.4	-4.4	0	0
6	SA3	X	-4.4	-4.4	0	0
7	FM1	Z	0	0	0	0
8	FM2	Z	0	0	0	0
9	FM3	Z	0	0	0	0
10	SA1	Z	0	0	0	0
11	SA2	Z	0	0	0	0
12	SA3	Z	0	0	0	0

Member Distributed Loads (BLC 22 : Wind on Ice (210 deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
1	FM1	X	-3.8	-3.8	0	0
2	FM2	X	0	0	0	0
3	FM3	X	-3.8	-3.8	0	0
4	SA1	X	-3.8	-3.8	0	0
5	SA2	X	-3.8	-3.8	0	0
6	SA3	X	-3.8	-3.8	0	0
7	FM1	Z	-2.2	-2.2	0	0
8	FM2	Z	0	0	0	0
9	FM3	Z	-2.2	-2.2	0	0
10	SA1	Z	-2.2	-2.2	0	0
11	SA2	Z	-2.2	-2.2	0	0
12	SA3	Z	-2.2	-2.2	0	0

Member Distributed Loads (BLC 23 : Wind on Ice (240 deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
1	FM1	X	-2.2	-2.2	0	0
2	FM2	X	-2.2	-2.2	0	0
3	FM3	X	-2.2	-2.2	0	0
4	SA1	X	-2.2	-2.2	0	0
5	SA2	X	-2.2	-2.2	0	0
6	SA3	X	0	0	0	0
7	FM1	Z	-3.8	-3.8	0	0
8	FM2	Z	-3.8	-3.8	0	0
9	FM3	Z	-3.8	-3.8	0	0
10	SA1	Z	-3.8	-3.8	0	0
11	SA2	Z	-3.8	-3.8	0	0
12	SA3	Z	0	0	0	0

Member Distributed Loads (BLC 24 : Wind on Ice (270 deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
1	FM1	X	0	0	0	0
2	FM2	X	0	0	0	0
3	FM3	X	0	0	0	0
4	SA1	X	0	0	0	0
5	SA2	X	0	0	0	0
6	SA3	X	0	0	0	0
7	FM1	Z	0	0	0	0
8	FM2	Z	-4.4	-4.4	0	0
9	FM3	Z	-4.4	-4.4	0	0
10	SA1	Z	-4.4	-4.4	0	0

Member Distributed Loads (BLC 24 : Wind on Ice (270 deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
11	SA2	Z	-4.4	-4.4	0	0
12	SA3	Z	-4.4	-4.4	0	0

Member Distributed Loads (BLC 25 : Wind on Ice (300 deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
1	FM1	X	2.2	2.2	0	0
2	FM2	X	2.2	2.2	0	0
3	FM3	X	2.2	2.2	0	0
4	SA1	X	2.2	2.2	0	0
5	SA2	X	0	0	0	0
6	SA3	X	2.2	2.2	0	0
7	FM1	Z	-3.8	-3.8	0	0
8	FM2	Z	-3.8	-3.8	0	0
9	FM3	Z	-3.8	-3.8	0	0
10	SA1	Z	-3.8	-3.8	0	0
11	SA2	Z	0	0	0	0
12	SA3	Z	-3.8	-3.8	0	0

Member Distributed Loads (BLC 26 : Wind on Ice (330 deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in,%]	End Location[in,%]
1	FM1	X	3.8	3.8	0	0
2	FM2	X	3.8	3.8	0	0
3	FM3	X	0	0	0	0
4	SA1	X	3.8	3.8	0	0
5	SA2	X	3.8	3.8	0	0
6	SA3	X	3.8	3.8	0	0
7	FM1	Z	-2.2	-2.2	0	0
8	FM2	Z	-2.2	-2.2	0	0
9	FM3	Z	0	0	0	0
10	SA1	Z	-2.2	-2.2	0	0
11	SA2	Z	-2.2	-2.2	0	0
12	SA3	Z	-2.2	-2.2	0	0

Load Combinations

	Description	So..	P...	S...	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..
1	1.4D	Yes	Y		1	1.4																		
2	1.2D + 1.0W (0 deg)	Yes	Y		1	1.2	2	1	175	1														
3	1.2D + 1.0W (30 deg)	Yes	Y		1	1.2	3	1	176	1														
4	1.2D + 1.0W (60 deg)	Yes	Y		1	1.2	4	1	177	1														
5	1.2D + 1.0W (90 deg)	Yes	Y		1	1.2	5	1	178	1														
6	1.2D + 1.0W (120 deg)	Yes	Y		1	1.2	6	1	179	1														
7	1.2D + 1.0W (150 deg)	Yes	Y		1	1.2	7	1	180	1														
8	1.2D + 1.0W (180 deg)	Yes	Y		1	1.2	8	1	181	1														
9	1.2D + 1.0W (210 deg)	Yes	Y		1	1.2	9	1	182	1														
10	1.2D + 1.0W (240 deg)	Yes	Y		1	1.2	10	1	183	1														
11	1.2D + 1.0W (270 deg)	Yes	Y		1	1.2	11	1	184	1														
12	1.2D + 1.0W (300 deg)	Yes	Y		1	1.2	12	1	185	1														
13	1.2D + 1.0W (330 deg)	Yes	Y		1	1.2	13	1	186	1														
14	1.2D + Di + Wi (0 deg)	Yes	Y		1	1.2	14	1	15	1	187	1												
15	1.2D + Di + Wi (30 deg)	Yes	Y		1	1.2	14	1	16	1	188	1												
16	1.2D + Di + Wi (60 deg)	Yes	Y		1	1.2	14	1	17	1	189	1												
17	1.2D + Di + Wi (90 deg)	Yes	Y		1	1.2	14	1	18	1	190	1												
18	1.2D + Di + Wi (120 de...	Yes	Y		1	1.2	14	1	19	1	191	1												
19	1.2D + Di + Wi (150 de...	Yes	Y		1	1.2	14	1	20	1	192	1												

Load Combinations (Continued)

	Description	So..	P...	S...	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac...
20	1.2D + Di + Wi (180 de...	Yes	Y		1	1.2	14	1	21	1	193	1														
21	1.2D + Di + Wi (210 de...	Yes	Y		1	1.2	14	1	22	1	194	1														
22	1.2D + Di + Wi (240 de...	Yes	Y		1	1.2	14	1	23	1	195	1														
23	1.2D + Di + Wi (270 de...	Yes	Y		1	1.2	14	1	24	1	196	1														
24	1.2D + Di + Wi (300 de...	Yes	Y		1	1.2	14	1	25	1	197	1														
25	1.2D + Di + Wi (330 de...	Yes	Y		1	1.2	14	1	26	1	198	1														
26	1.2D + 1.0 Ev + 1.0Eh ...	Yes	Y		1	1.2	1	.055	27	.138																
27	1.2D + 1.0 Ev + 1.0Eh ...	Yes	Y		1	1.2	1	.055	28	.138																
28	1.2D + 1.0 Ev + 1.0Eh ...	Yes	Y		1	1.2	1	.055	29	.138																
29	1.2D + 1.0 Ev + 1.0Eh ...	Yes	Y		1	1.2	1	.055	30	.138																
30	1.2D + 1.0 Ev + 1.0Eh ...	Yes	Y		1	1.2	1	.055	31	.138																
31	1.2D + 1.0 Ev + 1.0Eh ...	Yes	Y		1	1.2	1	.055	32	.138																
32	1.2D + 1.0 Ev + 1.0Eh ...	Yes	Y		1	1.2	1	.055	33	.138																
33	1.2D + 1.0 Ev + 1.0Eh ...	Yes	Y		1	1.2	1	.055	34	.138																
34	1.2D + 1.0 Ev + 1.0Eh ...	Yes	Y		1	1.2	1	.055	35	.138																
35	1.2D + 1.0 Ev + 1.0Eh ...	Yes	Y		1	1.2	1	.055	36	.138																
36	1.2D + 1.0 Ev + 1.0Eh ...	Yes	Y		1	1.2	1	.055	37	.138																
37	1.2D + 1.0 Ev + 1.0Eh ...	Yes	Y		1	1.2	1	.055	38	.138																
38	1.2D + 1.5Lm1 + 1.0W...	Yes	Y		1	1.2	39	1.5	2	.063	175	.063														
39	1.2D + 1.5Lm1 + 1.0W...	Yes	Y		1	1.2	39	1.5	3	.063	176	.063														
40	1.2D + 1.5Lm1 + 1.0W...	Yes	Y		1	1.2	39	1.5	4	.063	177	.063														
41	1.2D + 1.5Lm1 + 1.0W...	Yes	Y		1	1.2	39	1.5	5	.063	178	.063														
42	1.2D + 1.5Lm1 + 1.0W...	Yes	Y		1	1.2	39	1.5	6	.063	179	.063														
43	1.2D + 1.5Lm1 + 1.0W...	Yes	Y		1	1.2	39	1.5	7	.063	180	.063														
44	1.2D + 1.5Lm1 + 1.0W...	Yes	Y		1	1.2	39	1.5	8	.063	181	.063														
45	1.2D + 1.5Lm1 + 1.0W...	Yes	Y		1	1.2	39	1.5	9	.063	182	.063														
46	1.2D + 1.5Lm1 + 1.0W...	Yes	Y		1	1.2	39	1.5	10	.063	183	.063														
47	1.2D + 1.5Lm1 + 1.0W...	Yes	Y		1	1.2	39	1.5	11	.063	184	.063														
48	1.2D + 1.5Lm1 + 1.0W...	Yes	Y		1	1.2	39	1.5	12	.063	185	.063														
49	1.2D + 1.5Lm1 + 1.0W...	Yes	Y		1	1.2	39	1.5	13	.063	186	.063														
50	1.2D + 1.5Lm2 + 1.0W...	Yes	Y		1	1.2	40	1.5	2	.063	175	.063														
51	1.2D + 1.5Lm2 + 1.0W...	Yes	Y		1	1.2	40	1.5	3	.063	176	.063														
52	1.2D + 1.5Lm2 + 1.0W...	Yes	Y		1	1.2	40	1.5	4	.063	177	.063														
53	1.2D + 1.5Lm2 + 1.0W...	Yes	Y		1	1.2	40	1.5	5	.063	178	.063														
54	1.2D + 1.5Lm2 + 1.0W...	Yes	Y		1	1.2	40	1.5	6	.063	179	.063														
55	1.2D + 1.5Lm2 + 1.0W...	Yes	Y		1	1.2	40	1.5	7	.063	180	.063														
56	1.2D + 1.5Lm2 + 1.0W...	Yes	Y		1	1.2	40	1.5	8	.063	181	.063														
57	1.2D + 1.5Lm2 + 1.0W...	Yes	Y		1	1.2	40	1.5	9	.063	182	.063														
58	1.2D + 1.5Lm2 + 1.0W...	Yes	Y		1	1.2	40	1.5	10	.063	183	.063														
59	1.2D + 1.5Lm2 + 1.0W...	Yes	Y		1	1.2	40	1.5	11	.063	184	.063														
60	1.2D + 1.5Lm2 + 1.0W...	Yes	Y		1	1.2	40	1.5	12	.063	185	.063														
61	1.2D + 1.5Lm2 + 1.0W...	Yes	Y		1	1.2	40	1.5	13	.063	186	.063														
62	1.2D + 1.5Lm3 + 1.0W...	Yes	Y		1	1.2	41	1.5	2	.063	175	.063														
63	1.2D + 1.5Lm3 + 1.0W...	Yes	Y		1	1.2	41	1.5	3	.063	176	.063														
64	1.2D + 1.5Lm3 + 1.0W...	Yes	Y		1	1.2	41	1.5	4	.063	177	.063														
65	1.2D + 1.5Lm3 + 1.0W...	Yes	Y		1	1.2	41	1.5	5	.063	178	.063														
66	1.2D + 1.5Lm3 + 1.0W...	Yes	Y		1	1.2	41	1.5	6	.063	179	.063														
67	1.2D + 1.5Lm3 + 1.0W...	Yes	Y		1	1.2	41	1.5	7	.063	180	.063														
68	1.2D + 1.5Lm3 + 1.0W...	Yes	Y		1	1.2	41	1.5	8	.063	181	.063														
69	1.2D + 1.5Lm3 + 1.0W...	Yes	Y		1	1.2	41	1.5	9	.063	182	.063														
70	1.2D + 1.5Lm3 + 1.0W...	Yes	Y		1	1.2	41	1.5	10	.063	183	.063														
71	1.2D + 1.5Lm3 + 1.0W...	Yes	Y		1	1.2	41	1.5	11	.063	184	.063														
72	1.2D + 1.5Lm3 + 1.0W...	Yes	Y		1	1.2	41	1.5	12	.063	185	.063														
73	1.2D + 1.5Lm3 + 1.0W...	Yes	Y		1	1.2	41	1.5	13	.063	186	.063														
74	1.2D + 1.5Lm4 + 1.0W...	Yes	Y		1	1.2	42	1.5	2	.063	175	.063														
75	1.2D + 1.5Lm4 + 1.0W...	Yes	Y		1	1.2	42	1.5	3	.063	176	.063														
76	1.2D + 1.5Lm4 + 1.0W...	Yes	Y		1	1.2	42	1.5	4	.063	177	.063														

Load Combinations (Continued)

	Description	So..	P...	S...	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..
77	1.2D + 1.5Lm4 + 1.0W...	Yes	Y		1	1.2	42	1.5	5	.063	178	.063												
78	1.2D + 1.5Lm4 + 1.0W...	Yes	Y		1	1.2	42	1.5	6	.063	179	.063												
79	1.2D + 1.5Lm4 + 1.0W...	Yes	Y		1	1.2	42	1.5	7	.063	180	.063												
80	1.2D + 1.5Lm4 + 1.0W...	Yes	Y		1	1.2	42	1.5	8	.063	181	.063												
81	1.2D + 1.5Lm4 + 1.0W...	Yes	Y		1	1.2	42	1.5	9	.063	182	.063												
82	1.2D + 1.5Lm4 + 1.0W...	Yes	Y		1	1.2	42	1.5	10	.063	183	.063												
83	1.2D + 1.5Lm4 + 1.0W...	Yes	Y		1	1.2	42	1.5	11	.063	184	.063												
84	1.2D + 1.5Lm4 + 1.0W...	Yes	Y		1	1.2	42	1.5	12	.063	185	.063												
85	1.2D + 1.5Lm4 + 1.0W...	Yes	Y		1	1.2	42	1.5	13	.063	186	.063												
86	1.2D + 1.5Lm5 + 1.0W...	Yes	Y		1	1.2	43	1.5	2	.063	175	.063												
87	1.2D + 1.5Lm5 + 1.0W...	Yes	Y		1	1.2	43	1.5	3	.063	176	.063												
88	1.2D + 1.5Lm5 + 1.0W...	Yes	Y		1	1.2	43	1.5	4	.063	177	.063												
89	1.2D + 1.5Lm5 + 1.0W...	Yes	Y		1	1.2	43	1.5	5	.063	178	.063												
90	1.2D + 1.5Lm5 + 1.0W...	Yes	Y		1	1.2	43	1.5	6	.063	179	.063												
91	1.2D + 1.5Lm5 + 1.0W...	Yes	Y		1	1.2	43	1.5	7	.063	180	.063												
92	1.2D + 1.5Lm5 + 1.0W...	Yes	Y		1	1.2	43	1.5	8	.063	181	.063												
93	1.2D + 1.5Lm5 + 1.0W...	Yes	Y		1	1.2	43	1.5	9	.063	182	.063												
94	1.2D + 1.5Lm5 + 1.0W...	Yes	Y		1	1.2	43	1.5	10	.063	183	.063												
95	1.2D + 1.5Lm5 + 1.0W...	Yes	Y		1	1.2	43	1.5	11	.063	184	.063												
96	1.2D + 1.5Lm5 + 1.0W...	Yes	Y		1	1.2	43	1.5	12	.063	185	.063												
97	1.2D + 1.5Lm5 + 1.0W...	Yes	Y		1	1.2	43	1.5	13	.063	186	.063												
98	1.2D + 1.5Lm6 + 1.0W...	Yes	Y		1	1.2	44	1.5	2	.063	175	.063												
99	1.2D + 1.5Lm6 + 1.0W...	Yes	Y		1	1.2	44	1.5	3	.063	176	.063												
100	1.2D + 1.5Lm6 + 1.0W...	Yes	Y		1	1.2	44	1.5	4	.063	177	.063												
101	1.2D + 1.5Lm6 + 1.0W...	Yes	Y		1	1.2	44	1.5	5	.063	178	.063												
102	1.2D + 1.5Lm6 + 1.0W...	Yes	Y		1	1.2	44	1.5	6	.063	179	.063												
103	1.2D + 1.5Lm6 + 1.0W...	Yes	Y		1	1.2	44	1.5	7	.063	180	.063												
104	1.2D + 1.5Lm6 + 1.0W...	Yes	Y		1	1.2	44	1.5	8	.063	181	.063												
105	1.2D + 1.5Lm6 + 1.0W...	Yes	Y		1	1.2	44	1.5	9	.063	182	.063												
106	1.2D + 1.5Lm6 + 1.0W...	Yes	Y		1	1.2	44	1.5	10	.063	183	.063												
107	1.2D + 1.5Lm6 + 1.0W...	Yes	Y		1	1.2	44	1.5	11	.063	184	.063												
108	1.2D + 1.5Lm6 + 1.0W...	Yes	Y		1	1.2	44	1.5	12	.063	185	.063												
109	1.2D + 1.5Lm6 + 1.0W...	Yes	Y		1	1.2	44	1.5	13	.063	186	.063												
110	1.2D + 1.5Lm7 + 1.0W...	Yes	Y		1	1.2	45	1.5	2	.063	175	.063												
111	1.2D + 1.5Lm7 + 1.0W...	Yes	Y		1	1.2	45	1.5	3	.063	176	.063												
112	1.2D + 1.5Lm7 + 1.0W...	Yes	Y		1	1.2	45	1.5	4	.063	177	.063												
113	1.2D + 1.5Lm7 + 1.0W...	Yes	Y		1	1.2	45	1.5	5	.063	178	.063												
114	1.2D + 1.5Lm7 + 1.0W...	Yes	Y		1	1.2	45	1.5	6	.063	179	.063												
115	1.2D + 1.5Lm7 + 1.0W...	Yes	Y		1	1.2	45	1.5	7	.063	180	.063												
116	1.2D + 1.5Lm7 + 1.0W...	Yes	Y		1	1.2	45	1.5	8	.063	181	.063												
117	1.2D + 1.5Lm7 + 1.0W...	Yes	Y		1	1.2	45	1.5	9	.063	182	.063												
118	1.2D + 1.5Lm7 + 1.0W...	Yes	Y		1	1.2	45	1.5	10	.063	183	.063												
119	1.2D + 1.5Lm7 + 1.0W...	Yes	Y		1	1.2	45	1.5	11	.063	184	.063												
120	1.2D + 1.5Lm7 + 1.0W...	Yes	Y		1	1.2	45	1.5	12	.063	185	.063												
121	1.2D + 1.5Lm7 + 1.0W...	Yes	Y		1	1.2	45	1.5	13	.063	186	.063												
122	1.2D + 1.5Lm8 + 1.0W...	Yes	Y		1	1.2	46	1.5	2	.063	175	.063												
123	1.2D + 1.5Lm8 + 1.0W...	Yes	Y		1	1.2	46	1.5	3	.063	176	.063												
124	1.2D + 1.5Lm8 + 1.0W...	Yes	Y		1	1.2	46	1.5	4	.063	177	.063												
125	1.2D + 1.5Lm8 + 1.0W...	Yes	Y		1	1.2	46	1.5	5	.063	178	.063												
126	1.2D + 1.5Lm8 + 1.0W...	Yes	Y		1	1.2	46	1.5	6	.063	179	.063												
127	1.2D + 1.5Lm8 + 1.0W...	Yes	Y		1	1.2	46	1.5	7	.063	180	.063												
128	1.2D + 1.5Lm8 + 1.0W...	Yes	Y		1	1.2	46	1.5	8	.063	181	.063												
129	1.2D + 1.5Lm8 + 1.0W...	Yes	Y		1	1.2	46	1.5	9	.063	182	.063												
130	1.2D + 1.5Lm8 + 1.0W...	Yes	Y		1	1.2	46	1.5	10	.063	183	.063												
131	1.2D + 1.5Lm8 + 1.0W...	Yes	Y		1	1.2	46	1.5	11	.063	184	.063												
132	1.2D + 1.5Lm8 + 1.0W...	Yes	Y		1	1.2	46	1.5	12	.063	185	.063												
133	1.2D + 1.5Lm8 + 1.0W...	Yes	Y		1	1.2	46	1.5	13	.063	186	.063												

Load Combinations (Continued)

	Description	So..	P...	S...	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..
134	1.2D + 1.5Lm9 + 1.0W...	Yes	Y		1	1.2	47	1.5	2	.063	175	.063												
135	1.2D + 1.5Lm9 + 1.0W...	Yes	Y		1	1.2	47	1.5	3	.063	176	.063												
136	1.2D + 1.5Lm9 + 1.0W...	Yes	Y		1	1.2	47	1.5	4	.063	177	.063												
137	1.2D + 1.5Lm9 + 1.0W...	Yes	Y		1	1.2	47	1.5	5	.063	178	.063												
138	1.2D + 1.5Lm9 + 1.0W...	Yes	Y		1	1.2	47	1.5	6	.063	179	.063												
139	1.2D + 1.5Lm9 + 1.0W...	Yes	Y		1	1.2	47	1.5	7	.063	180	.063												
140	1.2D + 1.5Lm9 + 1.0W...	Yes	Y		1	1.2	47	1.5	8	.063	181	.063												
141	1.2D + 1.5Lm9 + 1.0W...	Yes	Y		1	1.2	47	1.5	9	.063	182	.063												
142	1.2D + 1.5Lm9 + 1.0W...	Yes	Y		1	1.2	47	1.5	10	.063	183	.063												
143	1.2D + 1.5Lm9 + 1.0W...	Yes	Y		1	1.2	47	1.5	11	.063	184	.063												
144	1.2D + 1.5Lm9 + 1.0W...	Yes	Y		1	1.2	47	1.5	12	.063	185	.063												
145	1.2D + 1.5Lm9 + 1.0W...	Yes	Y		1	1.2	47	1.5	13	.063	186	.063												
146	1.2D + 1.5Lm10 + 1.0...	Yes	Y		1	1.2	48	1.5	2	.063	175	.063												
147	1.2D + 1.5Lm10 + 1.0...	Yes	Y		1	1.2	48	1.5	3	.063	176	.063												
148	1.2D + 1.5Lm10 + 1.0...	Yes	Y		1	1.2	48	1.5	4	.063	177	.063												
149	1.2D + 1.5Lm10 + 1.0...	Yes	Y		1	1.2	48	1.5	5	.063	178	.063												
150	1.2D + 1.5Lm10 + 1.0...	Yes	Y		1	1.2	48	1.5	6	.063	179	.063												
151	1.2D + 1.5Lm10 + 1.0...	Yes	Y		1	1.2	48	1.5	7	.063	180	.063												
152	1.2D + 1.5Lm10 + 1.0...	Yes	Y		1	1.2	48	1.5	8	.063	181	.063												
153	1.2D + 1.5Lm10 + 1.0...	Yes	Y		1	1.2	48	1.5	9	.063	182	.063												
154	1.2D + 1.5Lm10 + 1.0...	Yes	Y		1	1.2	48	1.5	10	.063	183	.063												
155	1.2D + 1.5Lm10 + 1.0...	Yes	Y		1	1.2	48	1.5	11	.063	184	.063												
156	1.2D + 1.5Lm10 + 1.0...	Yes	Y		1	1.2	48	1.5	12	.063	185	.063												
157	1.2D + 1.5Lm10 + 1.0...	Yes	Y		1	1.2	48	1.5	13	.063	186	.063												
158	1.2D + 1.5Lm11 + 1.0...	Yes	Y		1	1.2	49	1.5	2	.063	175	.063												
159	1.2D + 1.5Lm11 + 1.0...	Yes	Y		1	1.2	49	1.5	3	.063	176	.063												
160	1.2D + 1.5Lm11 + 1.0...	Yes	Y		1	1.2	49	1.5	4	.063	177	.063												
161	1.2D + 1.5Lm11 + 1.0...	Yes	Y		1	1.2	49	1.5	5	.063	178	.063												
162	1.2D + 1.5Lm11 + 1.0...	Yes	Y		1	1.2	49	1.5	6	.063	179	.063												
163	1.2D + 1.5Lm11 + 1.0...	Yes	Y		1	1.2	49	1.5	7	.063	180	.063												
164	1.2D + 1.5Lm11 + 1.0...	Yes	Y		1	1.2	49	1.5	8	.063	181	.063												
165	1.2D + 1.5Lm11 + 1.0...	Yes	Y		1	1.2	49	1.5	9	.063	182	.063												
166	1.2D + 1.5Lm11 + 1.0...	Yes	Y		1	1.2	49	1.5	10	.063	183	.063												
167	1.2D + 1.5Lm11 + 1.0...	Yes	Y		1	1.2	49	1.5	11	.063	184	.063												
168	1.2D + 1.5Lm11 + 1.0...	Yes	Y		1	1.2	49	1.5	12	.063	185	.063												
169	1.2D + 1.5Lm11 + 1.0...	Yes	Y		1	1.2	49	1.5	13	.063	186	.063												
170	1.2D + 1.5Lm12 + 1.0...	Yes	Y		1	1.2	50	1.5	2	.063	175	.063												
171	1.2D + 1.5Lm12 + 1.0...	Yes	Y		1	1.2	50	1.5	3	.063	176	.063												
172	1.2D + 1.5Lm12 + 1.0...	Yes	Y		1	1.2	50	1.5	4	.063	177	.063												
173	1.2D + 1.5Lm12 + 1.0...	Yes	Y		1	1.2	50	1.5	5	.063	178	.063												
174	1.2D + 1.5Lm12 + 1.0...	Yes	Y		1	1.2	50	1.5	6	.063	179	.063												
175	1.2D + 1.5Lm12 + 1.0...	Yes	Y		1	1.2	50	1.5	7	.063	180	.063												
176	1.2D + 1.5Lm12 + 1.0...	Yes	Y		1	1.2	50	1.5	8	.063	181	.063												
177	1.2D + 1.5Lm12 + 1.0...	Yes	Y		1	1.2	50	1.5	9	.063	182	.063												
178	1.2D + 1.5Lm12 + 1.0...	Yes	Y		1	1.2	50	1.5	10	.063	183	.063												
179	1.2D + 1.5Lm12 + 1.0...	Yes	Y		1	1.2	50	1.5	11	.063	184	.063												
180	1.2D + 1.5Lm12 + 1.0...	Yes	Y		1	1.2	50	1.5	12	.063	185	.063												
181	1.2D + 1.5Lm12 + 1.0...	Yes	Y		1	1.2	50	1.5	13	.063	186	.063												
182	1.2D + 1.5Lm13 + 1.0...	Yes	Y		1	1.2	51	1.5	2	.063	175	.063												
183	1.2D + 1.5Lm13 + 1.0...	Yes	Y		1	1.2	51	1.5	3	.063	176	.063												
184	1.2D + 1.5Lm13 + 1.0...	Yes	Y		1	1.2	51	1.5	4	.063	177	.063												
185	1.2D + 1.5Lm13 + 1.0...	Yes	Y		1	1.2	51	1.5	5	.063	178	.063												
186	1.2D + 1.5Lm13 + 1.0...	Yes	Y		1	1.2	51	1.5	6	.063	179	.063												
187	1.2D + 1.5Lm13 + 1.0...	Yes	Y		1	1.2	51	1.5	7	.063	180	.063												
188	1.2D + 1.5Lm13 + 1.0...	Yes	Y		1	1.2	51	1.5	8	.063	181	.063												
189	1.2D + 1.5Lm13 + 1.0...	Yes	Y		1	1.2	51	1.5	9	.063	182	.063												
190	1.2D + 1.5Lm13 + 1.0...	Yes	Y		1	1.2	51	1.5	10	.063	183	.063												

Load Combinations (Continued)

	Description	So..	P...	S...	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac...
191	1.2D + 1.5Lm13 + 1.0...	Yes	Y		1	1.2	51	1.5	11	.063	184	.063														
192	1.2D + 1.5Lm13 + 1.0...	Yes	Y		1	1.2	51	1.5	12	.063	185	.063														
193	1.2D + 1.5Lm13 + 1.0...	Yes	Y		1	1.2	51	1.5	13	.063	186	.063														
194	1.2D + 1.5Lm14 + 1.0...	Yes	Y		1	1.2	52	1.5	2	.063	175	.063														
195	1.2D + 1.5Lm14 + 1.0...	Yes	Y		1	1.2	52	1.5	3	.063	176	.063														
196	1.2D + 1.5Lm14 + 1.0...	Yes	Y		1	1.2	52	1.5	4	.063	177	.063														
197	1.2D + 1.5Lm14 + 1.0...	Yes	Y		1	1.2	52	1.5	5	.063	178	.063														
198	1.2D + 1.5Lm14 + 1.0...	Yes	Y		1	1.2	52	1.5	6	.063	179	.063														
199	1.2D + 1.5Lm14 + 1.0...	Yes	Y		1	1.2	52	1.5	7	.063	180	.063														
200	1.2D + 1.5Lm14 + 1.0...	Yes	Y		1	1.2	52	1.5	8	.063	181	.063														
201	1.2D + 1.5Lm14 + 1.0...	Yes	Y		1	1.2	52	1.5	9	.063	182	.063														
202	1.2D + 1.5Lm14 + 1.0...	Yes	Y		1	1.2	52	1.5	10	.063	183	.063														
203	1.2D + 1.5Lm14 + 1.0...	Yes	Y		1	1.2	52	1.5	11	.063	184	.063														
204	1.2D + 1.5Lm14 + 1.0...	Yes	Y		1	1.2	52	1.5	12	.063	185	.063														
205	1.2D + 1.5Lm14 + 1.0...	Yes	Y		1	1.2	52	1.5	13	.063	186	.063														
206	1.2D + 1.5Lm15 + 1.0...	Yes	Y		1	1.2	53	1.5	2	.063	175	.063														
207	1.2D + 1.5Lm15 + 1.0...	Yes	Y		1	1.2	53	1.5	3	.063	176	.063														
208	1.2D + 1.5Lm15 + 1.0...	Yes	Y		1	1.2	53	1.5	4	.063	177	.063														
209	1.2D + 1.5Lm15 + 1.0...	Yes	Y		1	1.2	53	1.5	5	.063	178	.063														
210	1.2D + 1.5Lm15 + 1.0...	Yes	Y		1	1.2	53	1.5	6	.063	179	.063														
211	1.2D + 1.5Lm15 + 1.0...	Yes	Y		1	1.2	53	1.5	7	.063	180	.063														
212	1.2D + 1.5Lm15 + 1.0...	Yes	Y		1	1.2	53	1.5	8	.063	181	.063														
213	1.2D + 1.5Lm15 + 1.0...	Yes	Y		1	1.2	53	1.5	9	.063	182	.063														
214	1.2D + 1.5Lm15 + 1.0...	Yes	Y		1	1.2	53	1.5	10	.063	183	.063														
215	1.2D + 1.5Lm15 + 1.0...	Yes	Y		1	1.2	53	1.5	11	.063	184	.063														
216	1.2D + 1.5Lm15 + 1.0...	Yes	Y		1	1.2	53	1.5	12	.063	185	.063														
217	1.2D + 1.5Lm15 + 1.0...	Yes	Y		1	1.2	53	1.5	13	.063	186	.063														
218	1.2D + 1.5Lm16 + 1.0...		Y		1	1.2	54	1.5	2	.063	175	.063														
219	1.2D + 1.5Lm16 + 1.0...		Y		1	1.2	54	1.5	3	.063	176	.063														
220	1.2D + 1.5Lm16 + 1.0...		Y		1	1.2	54	1.5	4	.063	177	.063														
221	1.2D + 1.5Lm16 + 1.0...		Y		1	1.2	54	1.5	5	.063	178	.063														
222	1.2D + 1.5Lm16 + 1.0...		Y		1	1.2	54	1.5	6	.063	179	.063														
223	1.2D + 1.5Lm16 + 1.0...		Y		1	1.2	54	1.5	7	.063	180	.063														
224	1.2D + 1.5Lm16 + 1.0...		Y		1	1.2	54	1.5	8	.063	181	.063														
225	1.2D + 1.5Lm16 + 1.0...		Y		1	1.2	54	1.5	9	.063	182	.063														
226	1.2D + 1.5Lm16 + 1.0...		Y		1	1.2	54	1.5	10	.063	183	.063														
227	1.2D + 1.5Lm16 + 1.0...		Y		1	1.2	54	1.5	11	.063	184	.063														
228	1.2D + 1.5Lm16 + 1.0...		Y		1	1.2	54	1.5	12	.063	185	.063														
229	1.2D + 1.5Lm16 + 1.0...		Y		1	1.2	54	1.5	13	.063	186	.063														
230	1.2D + 1.5Lm17 + 1.0...		Y		1	1.2	55	1.5	2	.063	175	.063														
231	1.2D + 1.5Lm17 + 1.0...		Y		1	1.2	55	1.5	3	.063	176	.063														
232	1.2D + 1.5Lm17 + 1.0...		Y		1	1.2	55	1.5	4	.063	177	.063														
233	1.2D + 1.5Lm17 + 1.0...		Y		1	1.2	55	1.5	5	.063	178	.063														
234	1.2D + 1.5Lm17 + 1.0...		Y		1	1.2	55	1.5	6	.063	179	.063														
235	1.2D + 1.5Lm17 + 1.0...		Y		1	1.2	55	1.5	7	.063	180	.063														
236	1.2D + 1.5Lm17 + 1.0...		Y		1	1.2	55	1.5	8	.063	181	.063														
237	1.2D + 1.5Lm17 + 1.0...		Y		1	1.2	55	1.5	9	.063	182	.063														
238	1.2D + 1.5Lm17 + 1.0...		Y		1	1.2	55	1.5	10	.063	183	.063														
239	1.2D + 1.5Lm17 + 1.0...		Y		1	1.2	55	1.5	11	.063	184	.063														
240	1.2D + 1.5Lm17 + 1.0...		Y		1	1.2	55	1.5	12	.063	185	.063														
241	1.2D + 1.5Lm17 + 1.0...		Y		1	1.2	55	1.5	13	.063	186	.063														
242	1.2D + 1.5Lm18 + 1.0...		Y		1	1.2	56	1.5	2	.063	175	.063														
243	1.2D + 1.5Lm18 + 1.0...		Y		1	1.2	56	1.5	3	.063	176	.063														
244	1.2D + 1.5Lm18 + 1.0...		Y		1	1.2	56	1.5	4	.063	177	.063														
245	1.2D + 1.5Lm18 + 1.0...		Y		1	1.2	56	1.5	5	.063	178	.063														
246	1.2D + 1.5Lm18 + 1.0...		Y		1	1.2	56	1.5	6	.063	179	.063														
247	1.2D + 1.5Lm18 + 1.0...		Y		1	1.2	56	1.5	7	.063	180	.063														

Load Combinations (Continued)

	Description	So..	P...	S...	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..
248	1.2D + 1.5Lm18 + 1.0...		Y		1	1.2	56	1.5	8	.063	181	.063												
249	1.2D + 1.5Lm18 + 1.0...		Y		1	1.2	56	1.5	9	.063	182	.063												
250	1.2D + 1.5Lm18 + 1.0...		Y		1	1.2	56	1.5	10	.063	183	.063												
251	1.2D + 1.5Lm18 + 1.0...		Y		1	1.2	56	1.5	11	.063	184	.063												
252	1.2D + 1.5Lm18 + 1.0...		Y		1	1.2	56	1.5	12	.063	185	.063												
253	1.2D + 1.5Lm18 + 1.0...		Y		1	1.2	56	1.5	13	.063	186	.063												
254	1.2D + 1.5Lm19 + 1.0...		Y		1	1.2	57	1.5	2	.063	175	.063												
255	1.2D + 1.5Lm19 + 1.0...		Y		1	1.2	57	1.5	3	.063	176	.063												
256	1.2D + 1.5Lm19 + 1.0...		Y		1	1.2	57	1.5	4	.063	177	.063												
257	1.2D + 1.5Lm19 + 1.0...		Y		1	1.2	57	1.5	5	.063	178	.063												
258	1.2D + 1.5Lm19 + 1.0...		Y		1	1.2	57	1.5	6	.063	179	.063												
259	1.2D + 1.5Lm19 + 1.0...		Y		1	1.2	57	1.5	7	.063	180	.063												
260	1.2D + 1.5Lm19 + 1.0...		Y		1	1.2	57	1.5	8	.063	181	.063												
261	1.2D + 1.5Lm19 + 1.0...		Y		1	1.2	57	1.5	9	.063	182	.063												
262	1.2D + 1.5Lm19 + 1.0...		Y		1	1.2	57	1.5	10	.063	183	.063												
263	1.2D + 1.5Lm19 + 1.0...		Y		1	1.2	57	1.5	11	.063	184	.063												
264	1.2D + 1.5Lm19 + 1.0...		Y		1	1.2	57	1.5	12	.063	185	.063												
265	1.2D + 1.5Lm19 + 1.0...		Y		1	1.2	57	1.5	13	.063	186	.063												
266	1.2D + 1.5Lm20 + 1.0...		Y		1	1.2	58	1.5	2	.063	175	.063												
267	1.2D + 1.5Lm20 + 1.0...		Y		1	1.2	58	1.5	3	.063	176	.063												
268	1.2D + 1.5Lm20 + 1.0...		Y		1	1.2	58	1.5	4	.063	177	.063												
269	1.2D + 1.5Lm20 + 1.0...		Y		1	1.2	58	1.5	5	.063	178	.063												
270	1.2D + 1.5Lm20 + 1.0...		Y		1	1.2	58	1.5	6	.063	179	.063												
271	1.2D + 1.5Lm20 + 1.0...		Y		1	1.2	58	1.5	7	.063	180	.063												
272	1.2D + 1.5Lm20 + 1.0...		Y		1	1.2	58	1.5	8	.063	181	.063												
273	1.2D + 1.5Lm20 + 1.0...		Y		1	1.2	58	1.5	9	.063	182	.063												
274	1.2D + 1.5Lm20 + 1.0...		Y		1	1.2	58	1.5	10	.063	183	.063												
275	1.2D + 1.5Lm20 + 1.0...		Y		1	1.2	58	1.5	11	.063	184	.063												
276	1.2D + 1.5Lm20 + 1.0...		Y		1	1.2	58	1.5	12	.063	185	.063												
277	1.2D + 1.5Lm20 + 1.0...		Y		1	1.2	58	1.5	13	.063	186	.063												
278	1.2D + 1.5Lm21 + 1.0...		Y		1	1.2	59	1.5	2	.063	175	.063												
279	1.2D + 1.5Lm21 + 1.0...		Y		1	1.2	59	1.5	3	.063	176	.063												
280	1.2D + 1.5Lm21 + 1.0...		Y		1	1.2	59	1.5	4	.063	177	.063												
281	1.2D + 1.5Lm21 + 1.0...		Y		1	1.2	59	1.5	5	.063	178	.063												
282	1.2D + 1.5Lm21 + 1.0...		Y		1	1.2	59	1.5	6	.063	179	.063												
283	1.2D + 1.5Lm21 + 1.0...		Y		1	1.2	59	1.5	7	.063	180	.063												
284	1.2D + 1.5Lm21 + 1.0...		Y		1	1.2	59	1.5	8	.063	181	.063												
285	1.2D + 1.5Lm21 + 1.0...		Y		1	1.2	59	1.5	9	.063	182	.063												
286	1.2D + 1.5Lm21 + 1.0...		Y		1	1.2	59	1.5	10	.063	183	.063												
287	1.2D + 1.5Lm21 + 1.0...		Y		1	1.2	59	1.5	11	.063	184	.063												
288	1.2D + 1.5Lm21 + 1.0...		Y		1	1.2	59	1.5	12	.063	185	.063												
289	1.2D + 1.5Lm21 + 1.0...		Y		1	1.2	59	1.5	13	.063	186	.063												
290	1.2D + 1.5Lm22 + 1.0...		Y		1	1.2	60	1.5	2	.063	175	.063												
291	1.2D + 1.5Lm22 + 1.0...		Y		1	1.2	60	1.5	3	.063	176	.063												
292	1.2D + 1.5Lm22 + 1.0...		Y		1	1.2	60	1.5	4	.063	177	.063												
293	1.2D + 1.5Lm22 + 1.0...		Y		1	1.2	60	1.5	5	.063	178	.063												
294	1.2D + 1.5Lm22 + 1.0...		Y		1	1.2	60	1.5	6	.063	179	.063												
295	1.2D + 1.5Lm22 + 1.0...		Y		1	1.2	60	1.5	7	.063	180	.063												
296	1.2D + 1.5Lm22 + 1.0...		Y		1	1.2	60	1.5	8	.063	181	.063												
297	1.2D + 1.5Lm22 + 1.0...		Y		1	1.2	60	1.5	9	.063	182	.063												
298	1.2D + 1.5Lm22 + 1.0...		Y		1	1.2	60	1.5	10	.063	183	.063												
299	1.2D + 1.5Lm22 + 1.0...		Y		1	1.2	60	1.5	11	.063	184	.063												
300	1.2D + 1.5Lm22 + 1.0...		Y		1	1.2	60	1.5	12	.063	185	.063												
301	1.2D + 1.5Lm22 + 1.0...		Y		1	1.2	60	1.5	13	.063	186	.063												
302	1.2D + 1.5Lm23 + 1.0...		Y		1	1.2	61	1.5	2	.063	175	.063												
303	1.2D + 1.5Lm23 + 1.0...		Y		1	1.2	61	1.5	3	.063	176	.063												
304	1.2D + 1.5Lm23 + 1.0...		Y		1	1.2	61	1.5	4	.063	177	.063												

Load Combinations (Continued)

	Description	So..	P...	S...	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..
305	1.2D + 1.5Lm23 + 1.0...		Y		1	1.2	61	1.5	5	.063	178	.063												
306	1.2D + 1.5Lm23 + 1.0...		Y		1	1.2	61	1.5	6	.063	179	.063												
307	1.2D + 1.5Lm23 + 1.0...		Y		1	1.2	61	1.5	7	.063	180	.063												
308	1.2D + 1.5Lm23 + 1.0...		Y		1	1.2	61	1.5	8	.063	181	.063												
309	1.2D + 1.5Lm23 + 1.0...		Y		1	1.2	61	1.5	9	.063	182	.063												
310	1.2D + 1.5Lm23 + 1.0...		Y		1	1.2	61	1.5	10	.063	183	.063												
311	1.2D + 1.5Lm23 + 1.0...		Y		1	1.2	61	1.5	11	.063	184	.063												
312	1.2D + 1.5Lm23 + 1.0...		Y		1	1.2	61	1.5	12	.063	185	.063												
313	1.2D + 1.5Lm23 + 1.0...		Y		1	1.2	61	1.5	13	.063	186	.063												
314	1.2D + 1.5Lm24 + 1.0...		Y		1	1.2	62	1.5	2	.063	175	.063												
315	1.2D + 1.5Lm24 + 1.0...		Y		1	1.2	62	1.5	3	.063	176	.063												
316	1.2D + 1.5Lm24 + 1.0...		Y		1	1.2	62	1.5	4	.063	177	.063												
317	1.2D + 1.5Lm24 + 1.0...		Y		1	1.2	62	1.5	5	.063	178	.063												
318	1.2D + 1.5Lm24 + 1.0...		Y		1	1.2	62	1.5	6	.063	179	.063												
319	1.2D + 1.5Lm24 + 1.0...		Y		1	1.2	62	1.5	7	.063	180	.063												
320	1.2D + 1.5Lm24 + 1.0...		Y		1	1.2	62	1.5	8	.063	181	.063												
321	1.2D + 1.5Lm24 + 1.0...		Y		1	1.2	62	1.5	9	.063	182	.063												
322	1.2D + 1.5Lm24 + 1.0...		Y		1	1.2	62	1.5	10	.063	183	.063												
323	1.2D + 1.5Lm24 + 1.0...		Y		1	1.2	62	1.5	11	.063	184	.063												
324	1.2D + 1.5Lm24 + 1.0...		Y		1	1.2	62	1.5	12	.063	185	.063												
325	1.2D + 1.5Lm24 + 1.0...		Y		1	1.2	62	1.5	13	.063	186	.063												
326	1.2D + 1.5Lm25 + 1.0...		Y		1	1.2	63	1.5	2	.063	175	.063												
327	1.2D + 1.5Lm25 + 1.0...		Y		1	1.2	63	1.5	3	.063	176	.063												
328	1.2D + 1.5Lm25 + 1.0...		Y		1	1.2	63	1.5	4	.063	177	.063												
329	1.2D + 1.5Lm25 + 1.0...		Y		1	1.2	63	1.5	5	.063	178	.063												
330	1.2D + 1.5Lm25 + 1.0...		Y		1	1.2	63	1.5	6	.063	179	.063												
331	1.2D + 1.5Lm25 + 1.0...		Y		1	1.2	63	1.5	7	.063	180	.063												
332	1.2D + 1.5Lm25 + 1.0...		Y		1	1.2	63	1.5	8	.063	181	.063												
333	1.2D + 1.5Lm25 + 1.0...		Y		1	1.2	63	1.5	9	.063	182	.063												
334	1.2D + 1.5Lm25 + 1.0...		Y		1	1.2	63	1.5	10	.063	183	.063												
335	1.2D + 1.5Lm25 + 1.0...		Y		1	1.2	63	1.5	11	.063	184	.063												
336	1.2D + 1.5Lm25 + 1.0...		Y		1	1.2	63	1.5	12	.063	185	.063												
337	1.2D + 1.5Lm25 + 1.0...		Y		1	1.2	63	1.5	13	.063	186	.063												
338	1.2D + 1.5Lm26 + 1.0...		Y		1	1.2	64	1.5	2	.063	175	.063												
339	1.2D + 1.5Lm26 + 1.0...		Y		1	1.2	64	1.5	3	.063	176	.063												
340	1.2D + 1.5Lm26 + 1.0...		Y		1	1.2	64	1.5	4	.063	177	.063												
341	1.2D + 1.5Lm26 + 1.0...		Y		1	1.2	64	1.5	5	.063	178	.063												
342	1.2D + 1.5Lm26 + 1.0...		Y		1	1.2	64	1.5	6	.063	179	.063												
343	1.2D + 1.5Lm26 + 1.0...		Y		1	1.2	64	1.5	7	.063	180	.063												
344	1.2D + 1.5Lm26 + 1.0...		Y		1	1.2	64	1.5	8	.063	181	.063												
345	1.2D + 1.5Lm26 + 1.0...		Y		1	1.2	64	1.5	9	.063	182	.063												
346	1.2D + 1.5Lm26 + 1.0...		Y		1	1.2	64	1.5	10	.063	183	.063												
347	1.2D + 1.5Lm26 + 1.0...		Y		1	1.2	64	1.5	11	.063	184	.063												
348	1.2D + 1.5Lm26 + 1.0...		Y		1	1.2	64	1.5	12	.063	185	.063												
349	1.2D + 1.5Lm26 + 1.0...		Y		1	1.2	64	1.5	13	.063	186	.063												
350	1.2D + 1.5Lm27 + 1.0...		Y		1	1.2	65	1.5	2	.063	175	.063												
351	1.2D + 1.5Lm27 + 1.0...		Y		1	1.2	65	1.5	3	.063	176	.063												
352	1.2D + 1.5Lm27 + 1.0...		Y		1	1.2	65	1.5	4	.063	177	.063												
353	1.2D + 1.5Lm27 + 1.0...		Y		1	1.2	65	1.5	5	.063	178	.063												
354	1.2D + 1.5Lm27 + 1.0...		Y		1	1.2	65	1.5	6	.063	179	.063												
355	1.2D + 1.5Lm27 + 1.0...		Y		1	1.2	65	1.5	7	.063	180	.063												
356	1.2D + 1.5Lm27 + 1.0...		Y		1	1.2	65	1.5	8	.063	181	.063												
357	1.2D + 1.5Lm27 + 1.0...		Y		1	1.2	65	1.5	9	.063	182	.063												
358	1.2D + 1.5Lm27 + 1.0...		Y		1	1.2	65	1.5	10	.063	183	.063												
359	1.2D + 1.5Lm27 + 1.0...		Y		1	1.2	65	1.5	11	.063	184	.063												
360	1.2D + 1.5Lm27 + 1.0...		Y		1	1.2	65	1.5	12	.063	185	.063												
361	1.2D + 1.5Lm27 + 1.0...		Y		1	1.2	65	1.5	13	.063	186	.063												

Load Combinations (Continued)

	Description	So..	P...	S...	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..
362	1.2D + 1.5Lm28 + 1.0...		Y		1	1.2	66	1.5	2	.063	175	.063												
363	1.2D + 1.5Lm28 + 1.0...		Y		1	1.2	66	1.5	3	.063	176	.063												
364	1.2D + 1.5Lm28 + 1.0...		Y		1	1.2	66	1.5	4	.063	177	.063												
365	1.2D + 1.5Lm28 + 1.0...		Y		1	1.2	66	1.5	5	.063	178	.063												
366	1.2D + 1.5Lm28 + 1.0...		Y		1	1.2	66	1.5	6	.063	179	.063												
367	1.2D + 1.5Lm28 + 1.0...		Y		1	1.2	66	1.5	7	.063	180	.063												
368	1.2D + 1.5Lm28 + 1.0...		Y		1	1.2	66	1.5	8	.063	181	.063												
369	1.2D + 1.5Lm28 + 1.0...		Y		1	1.2	66	1.5	9	.063	182	.063												
370	1.2D + 1.5Lm28 + 1.0...		Y		1	1.2	66	1.5	10	.063	183	.063												
371	1.2D + 1.5Lm28 + 1.0...		Y		1	1.2	66	1.5	11	.063	184	.063												
372	1.2D + 1.5Lm28 + 1.0...		Y		1	1.2	66	1.5	12	.063	185	.063												
373	1.2D + 1.5Lm28 + 1.0...		Y		1	1.2	66	1.5	13	.063	186	.063												
374	1.2D + 1.5Lm29 + 1.0...		Y		1	1.2	67	1.5	2	.063	175	.063												
375	1.2D + 1.5Lm29 + 1.0...		Y		1	1.2	67	1.5	3	.063	176	.063												
376	1.2D + 1.5Lm29 + 1.0...		Y		1	1.2	67	1.5	4	.063	177	.063												
377	1.2D + 1.5Lm29 + 1.0...		Y		1	1.2	67	1.5	5	.063	178	.063												
378	1.2D + 1.5Lm29 + 1.0...		Y		1	1.2	67	1.5	6	.063	179	.063												
379	1.2D + 1.5Lm29 + 1.0...		Y		1	1.2	67	1.5	7	.063	180	.063												
380	1.2D + 1.5Lm29 + 1.0...		Y		1	1.2	67	1.5	8	.063	181	.063												
381	1.2D + 1.5Lm29 + 1.0...		Y		1	1.2	67	1.5	9	.063	182	.063												
382	1.2D + 1.5Lm29 + 1.0...		Y		1	1.2	67	1.5	10	.063	183	.063												
383	1.2D + 1.5Lm29 + 1.0...		Y		1	1.2	67	1.5	11	.063	184	.063												
384	1.2D + 1.5Lm29 + 1.0...		Y		1	1.2	67	1.5	12	.063	185	.063												
385	1.2D + 1.5Lm29 + 1.0...		Y		1	1.2	67	1.5	13	.063	186	.063												
386	1.2D + 1.5Lm30 + 1.0...		Y		1	1.2	68	1.5	2	.063	175	.063												
387	1.2D + 1.5Lm30 + 1.0...		Y		1	1.2	68	1.5	3	.063	176	.063												
388	1.2D + 1.5Lm30 + 1.0...		Y		1	1.2	68	1.5	4	.063	177	.063												
389	1.2D + 1.5Lm30 + 1.0...		Y		1	1.2	68	1.5	5	.063	178	.063												
390	1.2D + 1.5Lm30 + 1.0...		Y		1	1.2	68	1.5	6	.063	179	.063												
391	1.2D + 1.5Lm30 + 1.0...		Y		1	1.2	68	1.5	7	.063	180	.063												
392	1.2D + 1.5Lm30 + 1.0...		Y		1	1.2	68	1.5	8	.063	181	.063												
393	1.2D + 1.5Lm30 + 1.0...		Y		1	1.2	68	1.5	9	.063	182	.063												
394	1.2D + 1.5Lm30 + 1.0...		Y		1	1.2	68	1.5	10	.063	183	.063												
395	1.2D + 1.5Lm30 + 1.0...		Y		1	1.2	68	1.5	11	.063	184	.063												
396	1.2D + 1.5Lm30 + 1.0...		Y		1	1.2	68	1.5	12	.063	185	.063												
397	1.2D + 1.5Lm30 + 1.0...		Y		1	1.2	68	1.5	13	.063	186	.063												
398	1.2D + 1.5Lm31 + 1.0...		Y		1	1.2	69	1.5	2	.063	175	.063												
399	1.2D + 1.5Lm31 + 1.0...		Y		1	1.2	69	1.5	3	.063	176	.063												
400	1.2D + 1.5Lm31 + 1.0...		Y		1	1.2	69	1.5	4	.063	177	.063												
401	1.2D + 1.5Lm31 + 1.0...		Y		1	1.2	69	1.5	5	.063	178	.063												
402	1.2D + 1.5Lm31 + 1.0...		Y		1	1.2	69	1.5	6	.063	179	.063												
403	1.2D + 1.5Lm31 + 1.0...		Y		1	1.2	69	1.5	7	.063	180	.063												
404	1.2D + 1.5Lm31 + 1.0...		Y		1	1.2	69	1.5	8	.063	181	.063												
405	1.2D + 1.5Lm31 + 1.0...		Y		1	1.2	69	1.5	9	.063	182	.063												
406	1.2D + 1.5Lm31 + 1.0...		Y		1	1.2	69	1.5	10	.063	183	.063												
407	1.2D + 1.5Lm31 + 1.0...		Y		1	1.2	69	1.5	11	.063	184	.063												
408	1.2D + 1.5Lm31 + 1.0...		Y		1	1.2	69	1.5	12	.063	185	.063												
409	1.2D + 1.5Lm31 + 1.0...		Y		1	1.2	69	1.5	13	.063	186	.063												
410	1.2D + 1.5Lm32 + 1.0...		Y		1	1.2	70	1.5	2	.063	175	.063												
411	1.2D + 1.5Lm32 + 1.0...		Y		1	1.2	70	1.5	3	.063	176	.063												
412	1.2D + 1.5Lm32 + 1.0...		Y		1	1.2	70	1.5	4	.063	177	.063												
413	1.2D + 1.5Lm32 + 1.0...		Y		1	1.2	70	1.5	5	.063	178	.063												
414	1.2D + 1.5Lm32 + 1.0...		Y		1	1.2	70	1.5	6	.063	179	.063												
415	1.2D + 1.5Lm32 + 1.0...		Y		1	1.2	70	1.5	7	.063	180	.063												
416	1.2D + 1.5Lm32 + 1.0...		Y		1	1.2	70	1.5	8	.063	181	.063												
417	1.2D + 1.5Lm32 + 1.0...		Y		1	1.2	70	1.5	9	.063	182	.063												
418	1.2D + 1.5Lm32 + 1.0...		Y		1	1.2	70	1.5	10	.063	183	.063												

Load Combinations (Continued)

	Description	So..	P...	S...	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..
419	1.2D + 1.5Lm32 + 1.0...		Y		1	1.2	70	1.5	11	.063	184	.063												
420	1.2D + 1.5Lm32 + 1.0...		Y		1	1.2	70	1.5	12	.063	185	.063												
421	1.2D + 1.5Lm32 + 1.0...		Y		1	1.2	70	1.5	13	.063	186	.063												
422	1.2D + 1.5Lm33 + 1.0...		Y		1	1.2	71	1.5	2	.063	175	.063												
423	1.2D + 1.5Lm33 + 1.0...		Y		1	1.2	71	1.5	3	.063	176	.063												
424	1.2D + 1.5Lm33 + 1.0...		Y		1	1.2	71	1.5	4	.063	177	.063												
425	1.2D + 1.5Lm33 + 1.0...		Y		1	1.2	71	1.5	5	.063	178	.063												
426	1.2D + 1.5Lm33 + 1.0...		Y		1	1.2	71	1.5	6	.063	179	.063												
427	1.2D + 1.5Lm33 + 1.0...		Y		1	1.2	71	1.5	7	.063	180	.063												
428	1.2D + 1.5Lm33 + 1.0...		Y		1	1.2	71	1.5	8	.063	181	.063												
429	1.2D + 1.5Lm33 + 1.0...		Y		1	1.2	71	1.5	9	.063	182	.063												
430	1.2D + 1.5Lm33 + 1.0...		Y		1	1.2	71	1.5	10	.063	183	.063												
431	1.2D + 1.5Lm33 + 1.0...		Y		1	1.2	71	1.5	11	.063	184	.063												
432	1.2D + 1.5Lm33 + 1.0...		Y		1	1.2	71	1.5	12	.063	185	.063												
433	1.2D + 1.5Lm33 + 1.0...		Y		1	1.2	71	1.5	13	.063	186	.063												
434	1.2D + 1.5Lm34 + 1.0...		Y		1	1.2	72	1.5	2	.063	175	.063												
435	1.2D + 1.5Lm34 + 1.0...		Y		1	1.2	72	1.5	3	.063	176	.063												
436	1.2D + 1.5Lm34 + 1.0...		Y		1	1.2	72	1.5	4	.063	177	.063												
437	1.2D + 1.5Lm34 + 1.0...		Y		1	1.2	72	1.5	5	.063	178	.063												
438	1.2D + 1.5Lm34 + 1.0...		Y		1	1.2	72	1.5	6	.063	179	.063												
439	1.2D + 1.5Lm34 + 1.0...		Y		1	1.2	72	1.5	7	.063	180	.063												
440	1.2D + 1.5Lm34 + 1.0...		Y		1	1.2	72	1.5	8	.063	181	.063												
441	1.2D + 1.5Lm34 + 1.0...		Y		1	1.2	72	1.5	9	.063	182	.063												
442	1.2D + 1.5Lm34 + 1.0...		Y		1	1.2	72	1.5	10	.063	183	.063												
443	1.2D + 1.5Lm34 + 1.0...		Y		1	1.2	72	1.5	11	.063	184	.063												
444	1.2D + 1.5Lm34 + 1.0...		Y		1	1.2	72	1.5	12	.063	185	.063												
445	1.2D + 1.5Lm34 + 1.0...		Y		1	1.2	72	1.5	13	.063	186	.063												
446	1.2D + 1.5Lm35 + 1.0...		Y		1	1.2	73	1.5	2	.063	175	.063												
447	1.2D + 1.5Lm35 + 1.0...		Y		1	1.2	73	1.5	3	.063	176	.063												
448	1.2D + 1.5Lm35 + 1.0...		Y		1	1.2	73	1.5	4	.063	177	.063												
449	1.2D + 1.5Lm35 + 1.0...		Y		1	1.2	73	1.5	5	.063	178	.063												
450	1.2D + 1.5Lm35 + 1.0...		Y		1	1.2	73	1.5	6	.063	179	.063												
451	1.2D + 1.5Lm35 + 1.0...		Y		1	1.2	73	1.5	7	.063	180	.063												
452	1.2D + 1.5Lm35 + 1.0...		Y		1	1.2	73	1.5	8	.063	181	.063												
453	1.2D + 1.5Lm35 + 1.0...		Y		1	1.2	73	1.5	9	.063	182	.063												
454	1.2D + 1.5Lm35 + 1.0...		Y		1	1.2	73	1.5	10	.063	183	.063												
455	1.2D + 1.5Lm35 + 1.0...		Y		1	1.2	73	1.5	11	.063	184	.063												
456	1.2D + 1.5Lm35 + 1.0...		Y		1	1.2	73	1.5	12	.063	185	.063												
457	1.2D + 1.5Lm35 + 1.0...		Y		1	1.2	73	1.5	13	.063	186	.063												
458	1.2D + 1.5Lm36 + 1.0...		Y		1	1.2	74	1.5	2	.063	175	.063												
459	1.2D + 1.5Lm36 + 1.0...		Y		1	1.2	74	1.5	3	.063	176	.063												
460	1.2D + 1.5Lm36 + 1.0...		Y		1	1.2	74	1.5	4	.063	177	.063												
461	1.2D + 1.5Lm36 + 1.0...		Y		1	1.2	74	1.5	5	.063	178	.063												
462	1.2D + 1.5Lm36 + 1.0...		Y		1	1.2	74	1.5	6	.063	179	.063												
463	1.2D + 1.5Lm36 + 1.0...		Y		1	1.2	74	1.5	7	.063	180	.063												
464	1.2D + 1.5Lm36 + 1.0...		Y		1	1.2	74	1.5	8	.063	181	.063												
465	1.2D + 1.5Lm36 + 1.0...		Y		1	1.2	74	1.5	9	.063	182	.063												
466	1.2D + 1.5Lm36 + 1.0...		Y		1	1.2	74	1.5	10	.063	183	.063												
467	1.2D + 1.5Lm36 + 1.0...		Y		1	1.2	74	1.5	11	.063	184	.063												
468	1.2D + 1.5Lm36 + 1.0...		Y		1	1.2	74	1.5	12	.063	185	.063												
469	1.2D + 1.5Lm36 + 1.0...		Y		1	1.2	74	1.5	13	.063	186	.063												
470	1.2D + 1.5Lv (Position ...	Yes	Y		1	1.2	75	1.5																
471	1.2D + 1.5Lv (Position ...	Yes	Y		1	1.2	76	1.5																
472	1.2D + 1.5Lv (Position ...	Yes	Y		1	1.2	77	1.5																
473	1.2D + 1.5Lv (Position ...	Yes	Y		1	1.2	78	1.5																
474	1.2D + 1.5Lv (Position ...	Yes	Y		1	1.2	79	1.5																
475	1.2D + 1.5Lv (Position ...	Yes	Y		1	1.2	80	1.5																

Load Combinations (Continued)

	Description	So..	P...	S...	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..
476	1.2D + 1.5Lv (Position ...	Yes	Y		1	1.2	81	1.5																
477	1.2D + 1.5Lv (Position ...	Yes	Y		1	1.2	82	1.5																
478	1.2D + 1.5Lv (Position ...	Yes	Y		1	1.2	83	1.5																
479	1.2D + 1.5Lv (Position ...	Yes	Y		1	1.2	84	1.5																
480	1.2D + 1.5Lv (Position ...	Yes	Y		1	1.2	85	1.5																
481	1.2D + 1.5Lv (Position ...	Yes	Y		1	1.2	86	1.5																
482	1.2D + 1.5Lv (Position ...	Yes	Y		1	1.2	87	1.5																
483	1.2D + 1.5Lv (Position ...	Yes	Y		1	1.2	88	1.5																
484	1.2D + 1.5Lv (Position ...	Yes	Y		1	1.2	89	1.5																
485	1.2D + 1.5Lv (Position ...		Y		1	1.2	90	1.5																
486	1.2D + 1.5Lv (Position ...		Y		1	1.2	91	1.5																
487	1.2D + 1.5Lv (Position ...		Y		1	1.2	92	1.5																
488	1.2D + 1.5Lv (Position ...		Y		1	1.2	93	1.5																
489	1.2D + 1.5Lv (Position ...		Y		1	1.2	94	1.5																
490	1.2D + 1.5Lv (Position ...		Y		1	1.2	95	1.5																
491	1.2D + 1.5Lv (Position ...		Y		1	1.2	96	1.5																
492	1.2D + 1.5Lv (Position ...		Y		1	1.2	97	1.5																
493	1.2D + 1.5Lv (Position ...		Y		1	1.2	98	1.5																
494	1.2D + 1.5Lv (Position ...		Y		1	1.2	99	1.5																
495	1.2D + 1.5Lv (Position ...		Y		1	1.2	100	1.5																
496	1.2D + 1.5Lv (Position ...		Y		1	1.2	101	1.5																
497	1.2D + 1.5Lv (Position ...		Y		1	1.2	102	1.5																
498	1.2D + 1.5Lv (Position ...		Y		1	1.2	103	1.5																
499	1.2D + 1.5Lv (Position ...		Y		1	1.2	104	1.5																
500	1.2D + 1.5Lv (Position ...		Y		1	1.2	105	1.5																
501	1.2D + 1.5Lv (Position ...		Y		1	1.2	106	1.5																
502	1.2D + 1.5Lv (Position ...		Y		1	1.2	107	1.5																
503	1.2D + 1.5Lv (Position ...		Y		1	1.2	108	1.5																
504	1.2D + 1.5Lv (Position ...		Y		1	1.2	109	1.5																
505	1.2D + 1.5Lv (Position ...		Y		1	1.2	110	1.5																
506	1.2D + 1.5Lv (Position ...		Y		1	1.2	111	1.5																
507	1.2D + 1.5Lv (Position ...		Y		1	1.2	112	1.5																
508	1.2D + 1.5Lv (Position ...		Y		1	1.2	113	1.5																
509	1.2D + 1.5Lv (Position ...		Y		1	1.2	114	1.5																
510	1.2D + 1.5Lv (Position ...		Y		1	1.2	115	1.5																
511	1.2D + 1.5Lv (Position ...		Y		1	1.2	116	1.5																
512	1.2D + 1.5Lv (Position ...		Y		1	1.2	117	1.5																
513	1.2D + 1.5Lv (Position ...		Y		1	1.2	118	1.5																
514	1.2D + 1.5Lv (Position ...		Y		1	1.2	119	1.5																
515	1.2D + 1.5Lv (Position ...		Y		1	1.2	120	1.5																
516	1.2D + 1.5Lv (Position ...		Y		1	1.2	121	1.5																
517	1.2D + 1.5Lv (Position ...		Y		1	1.2	122	1.5																
518	1.2D + 1.5Lv (Position ...		Y		1	1.2	123	1.5																
519	1.2D + 1.5Lv (Position ...		Y		1	1.2	124	1.5																
520	1.2D + 1.5Lv (Position ...		Y		1	1.2	125	1.5																
521	1.2D + 1.5Lv (Position ...		Y		1	1.2	126	1.5																
522	1.2D + 1.5Lv (Position ...		Y		1	1.2	127	1.5																
523	1.2D + 1.5Lv (Position ...		Y		1	1.2	128	1.5																
524	1.2D + 1.5Lv (Position ...		Y		1	1.2	129	1.5																
525	1.2D + 1.5Lv (Position ...		Y		1	1.2	130	1.5																
526	1.2D + 1.5Lv (Position ...		Y		1	1.2	131	1.5																
527	1.2D + 1.5Lv (Position ...		Y		1	1.2	132	1.5																
528	1.2D + 1.5Lv (Position ...		Y		1	1.2	133	1.5																
529	1.2D + 1.5Lv (Position ...		Y		1	1.2	134	1.5																
530	1.2D + 1.5Lv (Position ...		Y		1	1.2	135	1.5																
531	1.2D + 1.5Lv (Position ...		Y		1	1.2	136	1.5																
532	1.2D + 1.5Lv (Position ...		Y		1	1.2	137	1.5																

Load Combinations (Continued)

	Description	So..	P...	S...	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..
533	1.2D + 1.5Lv (Position ...		Y		1	1.2	138	1.5																
534	1.2D + 1.5Lv (Position ...		Y		1	1.2	139	1.5																
535	1.2D + 1.5Lv (Position ...		Y		1	1.2	140	1.5																
536	1.2D + 1.5Lv (Position ...		Y		1	1.2	141	1.5																
537	1.2D + 1.5Lv (Position ...		Y		1	1.2	142	1.5																
538	1.2D + 1.5Lv (Position ...		Y		1	1.2	143	1.5																
539	1.2D + 1.5Lv (Position ...		Y		1	1.2	144	1.5																
540	1.2D + 1.5Lv (Position ...		Y		1	1.2	145	1.5																
541	1.2D + 1.5Lv (Position ...		Y		1	1.2	146	1.5																
542	1.2D + 1.5Lv (Position ...		Y		1	1.2	147	1.5																
543	1.2D + 1.5Lv (Position ...		Y		1	1.2	148	1.5																
544	1.2D + 1.5Lv (Position ...		Y		1	1.2	149	1.5																
545	1.2D + 1.5Lv (Position ...		Y		1	1.2	150	1.5																
546	1.2D + 1.5Lv (Position ...		Y		1	1.2	151	1.5																
547	1.2D + 1.5Lv (Position ...		Y		1	1.2	152	1.5																
548	1.2D + 1.5Lv (Position ...		Y		1	1.2	153	1.5																
549	1.2D + 1.5Lv (Position ...		Y		1	1.2	154	1.5																
550	1.2D + 1.5Lv (Position ...		Y		1	1.2	155	1.5																
551	1.2D + 1.5Lv (Position ...		Y		1	1.2	156	1.5																
552	1.2D + 1.5Lv (Position ...		Y		1	1.2	157	1.5																
553	1.2D + 1.5Lv (Position ...		Y		1	1.2	158	1.5																
554	1.2D + 1.5Lv (Position ...		Y		1	1.2	159	1.5																
555	1.2D + 1.5Lv (Position ...		Y		1	1.2	160	1.5																
556	1.2D + 1.5Lv (Position ...		Y		1	1.2	161	1.5																
557	1.2D + 1.5Lv (Position ...		Y		1	1.2	162	1.5																
558	1.2D + 1.5Lv (Position ...		Y		1	1.2	163	1.5																
559	1.2D + 1.5Lv (Position ...		Y		1	1.2	164	1.5																
560	1.2D + 1.5Lv (Position ...		Y		1	1.2	165	1.5																
561	1.2D + 1.5Lv (Position ...		Y		1	1.2	166	1.5																
562	1.2D + 1.5Lv (Position ...		Y		1	1.2	167	1.5																
563	1.2D + 1.5Lv (Position ...		Y		1	1.2	168	1.5																
564	1.2D + 1.5Lv (Position ...		Y		1	1.2	169	1.5																
565	1.2D + 1.5Lv (Position ...		Y		1	1.2	170	1.5																
566	1.2D + 1.5Lv (Position ...		Y		1	1.2	171	1.5																
567	1.2D + 1.5Lv (Position ...		Y		1	1.2	172	1.5																
568	1.2D + 1.5Lv (Position ...		Y		1	1.2	173	1.5																
569	1.2D + 1.5Lv (Position ...		Y		1	1.2	174	1.5																

Envelope Joint Reactions

	Joint		X [lb]	LC	Y [lb]	LC	Z [lb]	LC	MX [lb-ft]	LC	MY [lb-ft]	LC	MZ [lb-ft]	LC
1	N8	max	1225.293	10	3058.888	22	2181.849	10	9094.895	23	678.931	13	-280.123	3
2		min	-1225.202	4	454.367	4	-2181.421	4	807.298	5	-679.092	7	-5182.623	21
3	N10	max	1244.646	6	3467.871	18	2127.072	12	-985.064	11	1084.933	9	-241.948	13
4		min	-1244.484	12	513.27	12	-2127.385	6	-10317.331	17	-1084.869	3	-5891.76	19
5	N6	max	2466.738	8	3026.42	14	427.96	11	978.088	11	853.775	5	10143.027	14
6		min	-2467.146	2	491.786	8	-427.99	5	-1046.082	5	-853.668	11	1086.316	8
7	Totals:	max	4133.589	8	9174.707	22	4098.893	11						
8		min	-4133.589	2	2983.453	4	-4098.893	5						

Envelope AISC 15th(360-16): LRFD Steel Code Checks

	Member	Shape	Code ...	Loc[in]	LC	Shear ..	Loc[in]	Dir	LC	phi*Pnc [lb]	phi*Pnt [...	phi*Mn ...	phi*Mn ...	Cb	Eqn
1	MP13	PIPE_2.0	.817	36	4	.058	36		4	20866.733	32130	1871.625	1871.625	1...	H1-1b
2	MP2	PIPE_2.0	.817	36	8	.058	36		8	20866.733	32130	1871.625	1871.625	1...	H1-1b
3	MP7	PIPE_2.0	.817	36	12	.058	36		12	20866.733	32130	1871.625	1871.625	1...	H1-1b

Envelope AISC 15th(360-16): LRFD Steel Code Checks (Continued)

	Member	Shape	Code ...	Loc[in]	LC	Shear ..	Loc[in]	Dir	LC	phi*Pnc [lb]	phi*Pnt [...	phi*Mn ...	phi*Mn ...	Cb	Eqn
4	SA2	HSS4X4X4	.733	90.5	18	.115	90.5	y	15	118734.003	139518	16180.5	16180.5	2....	H1-1b
5	SA3	HSS4X4X4	.648	90.5	22	.102	90.5	y	25	118734.003	139518	16180.5	16180.5	2....	H1-1b
6	SA1	HSS4X4X4	.632	90.5	14	.117	90.5	y	16	118734.003	139518	16180.5	16180.5	2....	H1-1b
7	MP11	PIPE_2.0	.296	36	13	.029	36		13	20866.733	32130	1871.625	1871.625	1....	H1-1b
8	FM3	HSS4X4X4	.285	0	20	.132	162	y	10	65069.536	139518	16180.5	16180.5	2....	H1-1b
9	MP12	PIPE_2.0	.276	36	13	.027	36		13	20866.733	32130	1871.625	1871.625	1....	H1-1b
10	FM1	HSS4X4X4	.274	162	16	.119	150....	y	8	65069.536	139518	16180.5	16180.5	3....	H1-1b
11	FM2	HSS4X4X4	.256	162	21	.121	162	y	6	65069.536	139518	16180.5	16180.5	3....	H1-1b
12	MP1	PIPE_2.0	.204	36	5	.020	36		5	20866.733	32130	1871.625	1871.625	1....	H1-1b
13	MP6	PIPE_2.0	.204	36	9	.020	36		9	20866.733	32130	1871.625	1871.625	1....	H1-1b
14	MP14	PIPE_2.0	.185	36	4	.018	36		4	20866.733	32130	1871.625	1871.625	1....	H1-1b
15	MP4	PIPE_2.0	.185	36	8	.018	36		8	20866.733	32130	1871.625	1871.625	1....	H1-1b
16	MP9	PIPE_2.0	.185	36	12	.018	36		12	20866.733	32130	1871.625	1871.625	1....	H1-1b
17	MP8	PIPE_2.0	.132	36	3	.013	36		3	20866.733	32130	1871.625	1871.625	1....	H1-1b
18	MP3	PIPE_2.0	.132	36	5	.013	36		5	20866.733	32130	1871.625	1871.625	1....	H1-1b
19	MP15	PIPE_2.0	.122	36	4	.012	36		4	20866.733	32130	1871.625	1871.625	1....	H1-1b
20	MP10	PIPE_2.0	.122	36	12	.012	36		12	20866.733	32130	1871.625	1871.625	1....	H1-1b
21	MP5	PIPE_2.0	.122	36	8	.012	36		8	20866.733	32130	1871.625	1871.625	1....	H1-1b

Exhibit F

Power Density/RF Emissions Report

Site Name: GREENWICH CT
Cumulative Power Density

Operator	Operating Frequency	Number of Trans.	ERP Per Trans.	Total ERP	Distance to Target	Calculated Power Density	Maximum Permissible Exposure*	Fraction of MPE
	(MHz)		(watts)	(watts)	(feet)	(mW/cm^2)	(mW/cm^2)	(%)
VZW PCS	1970	4	2041	8163.16	124	0.1909	1.0	19.09%
VZW Cellular CDMA	869	3	498	1494	124	0.0349	0.579333333	6.03%
VZW Cellular LTE	880	4	498	1992	124	0.0466	0.586666667	7.94%
VZW AWS	2145	4	2343	9372.56	124	0.2192	1.0	21.92%
VZW 700	746	4	589	2354.28	124	0.0551	0.497333333	11.07%
VZW CBRS	3550	4	50	200	124	0.0047	2.366666667	0.20%

Total Percentage of Maximum Permissible Exposure 66.26%

*Guidelines adopted by the FCC on August 1, 1996, 47 CFR Section 1.13101 based on NCRP Report 86, 1986 and generally on ANSI/IEEE C95.1-1992

MHz = Megahertz
mW/cm^2 = milliwatts per square centimeter
ERP = Effective Radiated Power

Absolute worst case maximum values used, including the following assumptions:
1. closest accessible point is distance from antenna to base of pole;
2. continuous transmission from all available channels at full power for indefinite time period; and,
3. all RF energy is assumed to be directed solely to the base of the pole.