Crown Castle
300 Meridian Centre
Rochester, NY 14618

November 18, 2019

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

RE: **Notice of Exempt Modification for Verizon:**
Crown Castle Site ID#: 806354
21 Berkshire Road, Newtown, CT 06482
Latitude: 41° 24′ 45.53″ / Longitude: -73° 16′ 12.34″

Dear Ms. Bachman:

Verizon currently maintains twelve (12) total antennas at the 185-foot mount on the existing 185-foot monopole tower, located at 21 Berkshire Road in Newtown, CT. The tower is owned by Crown Castle and the property is owned by Carmine Renzulli. Verizon now intends to add three (3) new antennas at the 185-foot mount, bringing the total number of antennas to fifteen (15).

Tower modifications:

- Add three (3) CBRS antennas
- Add three (3) CBRS RRHs
- Add six (6) 1x2 hybrid jumpers for CBRS (2 per RRH)

Ground modifications:

- None

Melanie A. Bachman

The facility was approved by the Connecticut Siting Council in Docket No. 89 on March 3, 1988. Verizon's proposed modification complies with the conditions of approval.

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.C.S.A. § 16-50j-73, a copy of this letter is being sent to Daniel C. Rosenthal, First Selectman for the Town of Newtown, Don Mitchell, Planning Commission Chair, and Carmine Renzulli, 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

Attachments

cc:

Daniel Rosenthal, First Selectman
Town of Newtown Municipal Center
3 Primrose Street
Newtown, CT 06470
203.270.4201

Don Mitchell, Planning Commission Chair
Town of Newtown Municipal Center
3 Primrose Street
Newtown, CT 06470
203.270.4276

Carmine Renzulli, Property Owner
505 Westport Avenue, Lot 31
Norwalk, CT 06851
203.856.5411

Exhibit A

Original Facility Approval

DOCKET NO. 89 - An application of Metro Mobile CTS of Fairfield County, Inc., for a Certificate of Environmental Compatibility and Public Need for cellular telephone antennas and associated equipment in the Town of Newtown, Connecticut	:	CONNECTICUT SITING COUNCIL
	:	March 3, 1988

D E C I S I O N A N D O R D E R

Pursuant to the forgoing opinion, the Connecticut Siting Council hereby directs that a Certificate of Environmental Compatibility and Public Need, as provided by Section 16-50k of the General Statutes of Connecticut (CGS) be issued to Metro Mobile CTS of Fairfield County, Inc., for the construction, operation, and maintenance of a cellular telephone tower site and associated equipment at the "LM/A-Newtown" alternative site off of Route 34 in the Town of Newtown, Connecticut.

The "LM-Newtown" site off of Commerce Road is hereby denied.

The facility shall be constructed, operated, and maintained as specified in the Council's record in this matter, and subject to the following conditions:

1. The monopole tower at the Newtown site shall be no taller than necessary to provide the proposed service, and in no event shall exceed a total height of 193 feet, including antennas and associated equipment.

2. The facility shall be constructed in accordance with all applicable federal, state, and municipal laws and regulations.

3. Unless necessary to comply with condition number 2, above, no lights shall be installed on this tower.

4. The Certificate Holder shall prepare a development and management (D&M) plan for the Newtown site in compliance with sections 16-50j-75 through 16-50j-77 of the Regulations of State Agencies. The D&M plan shall provide for permanent evergreen screening around the outside perimeter of the eight-foot chain link fence which will surround the site.

5. The Certificate Holder or its successor shall notify the Council if and when directional antennas or any equipment other than that listed in this application is added to this facility.

6. The Certificate Holder or its successor shall permit public or private entities to share space on the tower for due consideration, or shall provide the requesting entity with specific legal, technical, environmental, or economic reasons precluding such tower sharing.

7. If this facility does not provide, or permanently ceases to provide, cellular service following completion of construction, this Decision and Order shall be void, and the tower and all associated equipment in this application shall be dismantled and removed or reapplication for any new use shall be made to the Council before any such new use is made.

8. The Certificate Holder shall comply with any future radio frequency (RF) standards promulgated by State or federal regulatory agencies. Upon the establishment of any new governmental RF standards, the facility granted in the Decision and Order shall be brought into compliance with such standards.

9. Unless otherwise approved by the Council, this Decision and Order shall be void if all construction authorized herein is not completed within three years of the the issuance of this Decision and Order.

Pursuant to CGS Section 16-50p, we hereby direct that a copy of this Decision and Order be served on each person listed below. A notice of the issuance shall be published in the Danbury News-Times and Newtown Bee.

By this Decison and Order the Council disposes of the legal rights, duties, and privileges of each party named or admitted to the proceeding in accordance with Section 16-50j-17 of the Regulations of State Agencies.

The parties or intervenors to this proceeding are:

Metro Mobile CTS of Fairfield County, Inc. (applicant)
50 Rockland Road
South Norwalk, CT 06854
ATTN: Peter Kelley
Vice President

Howard L. Slater, Esq. (its representative)
Jennifer Young Gaudet, Esq.
Byrne, Slater, Sandler, Shulman & Rouse, P.C.
330 Main Street
P.O. Box 3216
Hartford, CT 06103

Fleishman and Walsh, P.C. (party)
1725 N Street, N.W.
Washington, D.C. 20036
ATTN: Richard Rubin, Esq.

Theodore G. Whippie (party)
Chairman
Planning & Zoning Comm.
Edmond Town Hall
45 Main Street
Newtown, CT 06470

CERTIFICATION

The undersigned members of the Connecticut Siting Council hereby certify that they have heard this case in Docket 89 or read the record thereof, and that we voted as follows:

Dated at New Britain, Connecticut the 3rd day of March, 1988.

Council Members	Vote Cast
Gloria Dibble Pond Chairperson	Yes
Commissioner Peter Boucher Designee: Roland Miller	Yes
Commissioner Leslie Carothers Designee: Brian Emerick	Yes
Owen L. Clark	Absent
Fred J. Dodcy	Yes
Mortimer A. Gelston	Yes
James G. Horsfall	Yes
William H. Smith	Yes
Colin C. Tait	Absent

1058E-2

Exhibit B

Property Card

21 BERKSHIRE ROAD

Location	21 BERKSHIRE ROAD	**M/B/L**	38/ 10/ 3/C /
Acct#	00428200C	**Owner**	RENZULLI CARMINE V
Assessment	$327,820	**Appraisal**	$468,310
PID	15220	**Building Count**	1

Current Value

Appraisal			
Valuation Year	**Improvements**	**Land**	**Total**
2017	$108,310	$360,000	$468,310
Assessment			
Valuation Year	**Improvements**	**Land**	**Total**
2017	$75,820	$252,000	$327,820

Owner of Record

Owner	RENZULLI CARMINE V	**Sale Price**	$0
Co-Owner		**Book & Page**	0306/0377
Address	505 WESTPORT AVE LT 31 NORWALK, CT 06851	**Sale Date**	12/25/2009

Ownership History

Ownership History			
Owner	**Sale Price**	**Book & Page**	**Sale Date**
RENZULLI CARMINE V	$0	0306/0377	12/25/2009

Building Information

Building 1 : Section 1

Year Built:
Living Area: 0

Building Attributes	
Field	**Description**
Style	Outbuildings
Model	
Grade:	
Stories	

Occupancy	
Exterior Wall 1	
Exterior Wall 2	
Roof Structure	
Roof Cover	
Interior Wall 1	
Interior Wall 2	
Interior Flr 1	
Interior Flr 2	
Heat Fuel	
Heat Type:	
AC Type:	
Total Bedrooms:	
Full Bthrms:	
Half Baths:	
Extra Fixtures	
Total Rooms:	
Bath Style:	
Kitchen Style:	
Extra Kitchens	
Fireplace(s)	
Extra Opening(s)	
Gas Fireplace(s)	
Blocked FPL(s)	
Woodstove(s)	
SF Fin Bsmt	
Fin Bsmt Qual	
Bsmt Garage	
Int Millwork	
Foundation	
MH Park	

Building Photo

(http://images.vgsi.com/photos/NewtownCTPhotos//\00\01\89/0

Building Layout

Building Layout
(http://images.vgsi.com/photos/NewtownCTPhotos//Sketches/15

Building Sub-Areas (sq ft)	Legend
No Data for Building Sub-Areas	

Extra Features

Extra Features	Legend
No Data for Extra Features	

Land

Land Use

Land Line Valuation

Use Code	4310	**Size (Acres)**	1
Description	CELL SITE	**Frontage**	
Zone	B-3	**Depth**	
Neighborhood		**Assessed Value**	$252,000
Alt Land Appr	No	**Appraised Value**	$360,000
Category			

Outbuildings

Outbuildings						Legend
Code	**Description**	**Sub Code**	**Sub Description**	**Size**	**Value**	**Bldg #**
CELL	Cell Tower			1 Units	$96,000	1
SHD4	Cellular Shed			400 S.F.	$7,200	1
SHD4	Cellular Shed			224 S.F.	$4,030	1
FN1	Fence			300 L.F.	$1,080	1

Valuation History

Appraisal			
Valuation Year	**Improvements**	**Land**	**Total**
2017	$108,310	$360,000	$468,310
2016	$96,000	$360,000	$456,000
2015	$96,000	$360,000	$456,000

Assessment			
Valuation Year	**Improvements**	**Land**	**Total**
2017	$75,820	$252,000	$327,820
2016	$67,200	$252,000	$319,200
2015	$67,200	$252,000	$319,200

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Exhibit C

Construction Drawings

verizon

NEWTOWN CT
21 BERKSHIRE ROAD
NEWTOWN, CT 06482

PROJECT SUMMARY

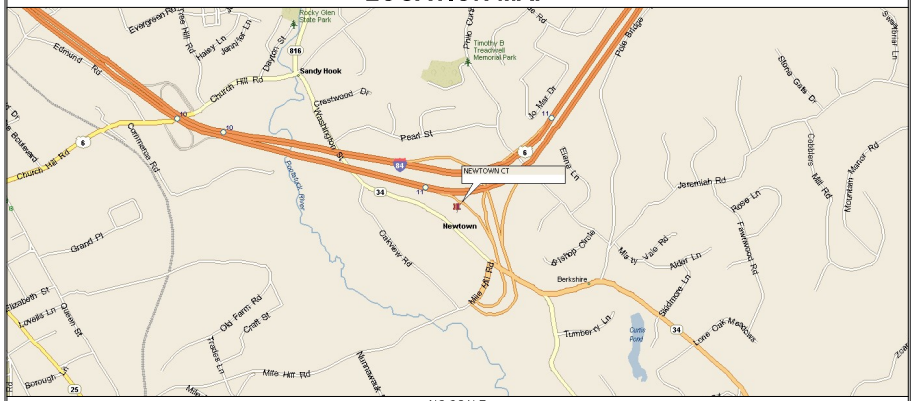
SITE NAME:	NEWTOWN CT
SITE ADDRESS:	21 BERKSHIRE ROAD NEWTOWN, CT 06482
TOWER OWNER:	CROWN CASTLE 2000 CORPORATE DR CANONSBURG, PA 15317
BU NUMBER:	806354
MAP NUMBER:	38-10
LOT NUMBER:	3
CUSTOMER/APPLICANT:	VERIZON WIRELESS 400 FRIEBERG PARKWAY WESTBOROUGH, MA 01581
CONTACT:	DAN MYZYRI (617) 945-7288
NAD83	
LATITUDE:	41° 24' 45.53" N
LONGITUDE:	73° 16' 12.34" W
ELEVATION:	355'
CURRENT ZONING:	BPO
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 BLDG CODES
STRUCTURAL	2018 CT BLDG CODES
MECHANICAL	2018 CT BLDG CODES
ELECTRICAL	NEC 2017

LOCATION MAP



NO SCALE

DRIVING DIRECTIONS

DEPART FROM BRADLEY INTERNATIONAL AIRPORT ON LOCAL ROAD. TAKE LOCAL ROAD ONTO TERMINAL RD. ROAD NAME CHANGES TO BRADLEY FIELD CONNECTOR. ROAD NAME CHANGES TO CT-20 [BRADLEY FIELD CONNECTOR]. TAKE RAMP ONTO I-91 [RICHARD P HORAN MEMORIAL HWY]. AT EXIT 32A-32B, TURN RIGHT ONTO RAMP. TAKE RAMP ONTO I-84 [US-6]. AT EXIT 11, TURN RIGHT ONTO RAMP. TURN RIGHT ONTO MILE HILL RD [WASSERMAN WAY]. TURN LEFT ONTO CT-34 [BERKSHIRE RD]. TURN RIGHT ONTO LOCAL ROAD. ARRIVE AT NEWTOWN CT.

DRAWING INDEX

SHEET #	SHEET DESCRIPTION	REV. #
T-1	TITLE SHEET	1
A-1	COMPOUND PLAN AND TOWER ELEVATION	1
A-2	EQUIPMENT DETAILS	1
A-3	SECTOR MOUNT DETAIL	1

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!

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

NEWTOWN CT
21 BERKSHIRE ROAD
NEWTOWN, CT 06482
EXISTING MONOPOLE

PROJECT NO:	136440.003.01
CHECKED BY:	GEH

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION
0	10/22/19	STH	CONSTRUCTION
1	11/11/19	RFC	CONSTRUCTION

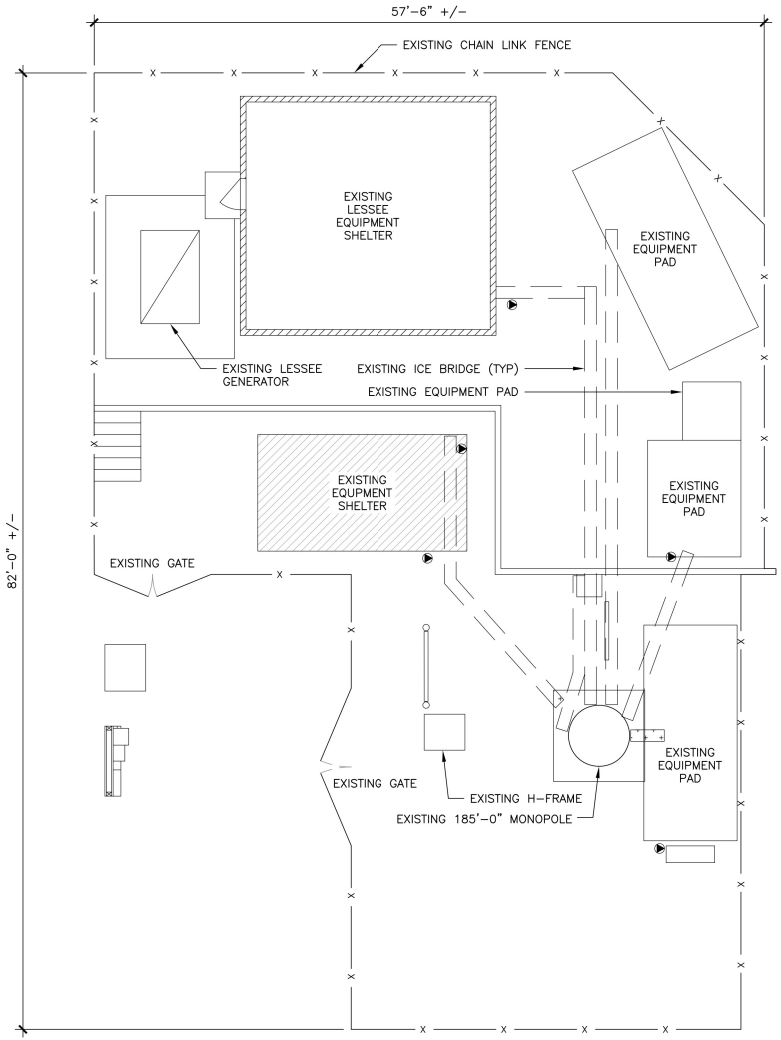
B&T ENGINEERING, INC.
PEC.0001564
Expires 2/10/20

STATE OF CONNECTICUT
31627
LICENSED
PROFESSIONAL ENGINEER
11/11/19

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	1

136440_806354_BRG 123 943084.dwg – Sheet:T-1 – User: ghayes – Nov 11, 2019 – 8:29am



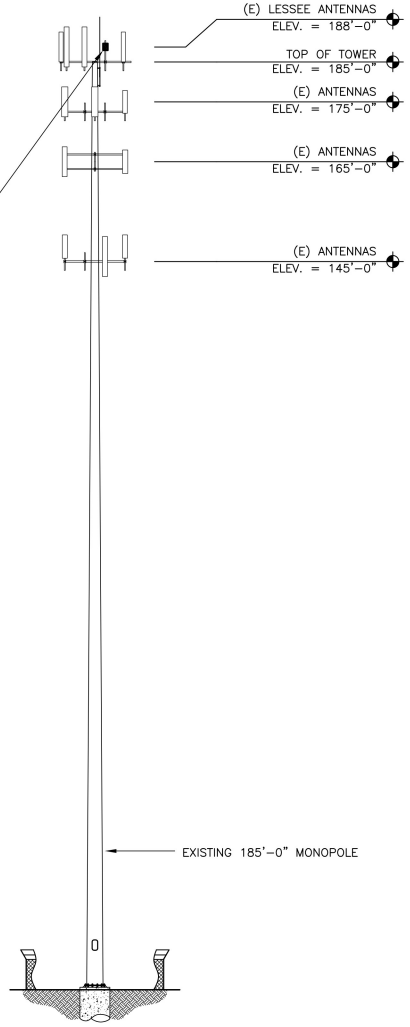
1 COMPOUND PLAN
SCALE: 0' 4' 8' 16' 32'

N

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: 238' (EACH RUN)

EXISTING TO REMAIN:
(6) CDMA ANTENNAS
(6) LTE ANTENNAS
(6) LTE RRHS
(6) DIPLEXERS
(2) OVP BOXES
(2) HYBRID CABLES

PROPOSED:
(3) CBRS ANTENNAS
(3) CBRS RRHS
(6) 1x2 HYBRID JUMPER FOR CBRS (2) PER RRH



2 FINAL TOWER ELEVATION
SCALE: 0' 4' 8' 16' 32'

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

NEWTOWN CT

21 BERKSHIRE ROAD
NEWTOWN, CT 06482
EXISTING MONOPOLE

PROJECT NO:	136440.003.01
CHECKED BY:	GEH

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION
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1	11/11/19	RFC	CONSTRUCTION

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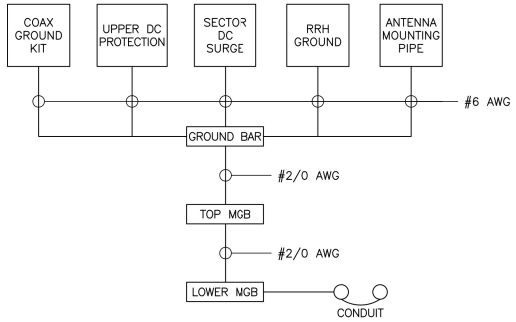
SHEET NUMBER: A-1
REVISION: 1

136440_806354_BRG 123 943084.dwg — Sheet:A-1 — User: ghoyes — Nov 11, 2019 — 8:29am

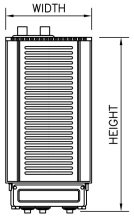
NOTE:
1. INSTALL ALL EQUIPMENT, MOUNTING BRACKETS AND HARDWARE ACCORDING WITH MANUFACTURE'S RECOMMENDATIONS.
2. GROUND DISTRIBUTION BOXES, MOUNTING PIPES AND RRHs IN ACCORDANCE WITH MANUFACTURE'S RECOMMENDATIONS.
3. INSTALLED EQUIPMENT AND MOUNTING BRACKETS SHALL NOT INTERFERE WITH CLIMBING ACCESS NOR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



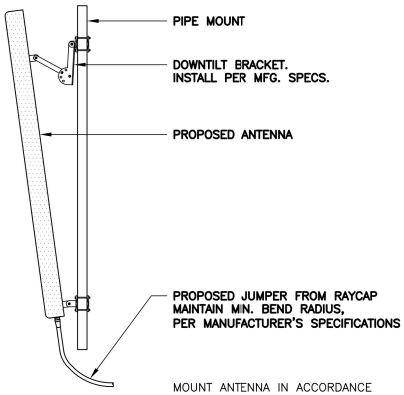
NOTE:
1. BOND ANTENNA GROUNDING KIT CABLES TO TOP CIBE.
2. BOND ANTENNA GROUNDING KIT CABLE TO BOTTOM CIBE.
3. TYPICAL FOR ALL SECTORS.

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

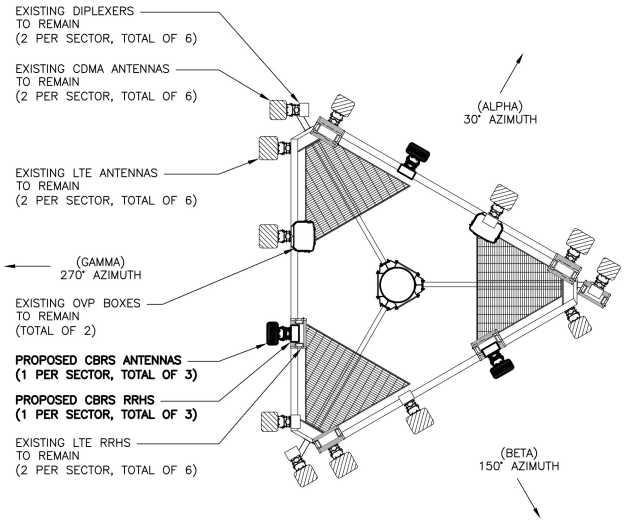
REMOTE RADIO HEAD DIMENSIONS (INCHES)				
MODEL	HEIGHT	WIDTH	DEPTH	WEIGHT
20W CBRS	12.10"	8.50"	4.10"	18.64 LBS



2 RRH SPECIFICATIONS
SCALE: N.T.S.



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



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

N

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

NEWTOWN CT

21 BERKSHIRE ROAD
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SHEET NUMBER:	REVISION:
A-2	1

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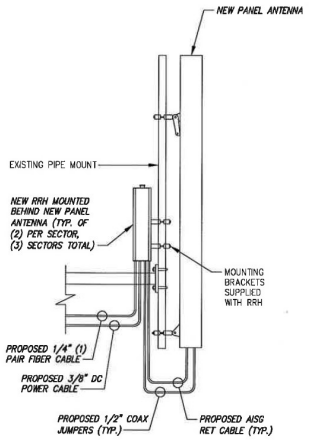

1 ANTENNA MOUNTING DETAIL
SCALE: N.T.S.

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NEWTOWN CT

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SHEET NUMBER: A-3

REVISION: 1

136440_806354_BRG 123 943084.dwg – Sheet:A-3 – User: ghayes – Nov 11, 2019 – 8:29am

Date: **October 24, 2019**

Amanda Brown
Crown Castle
3530 Toringdon Way, Suite 300
Charlotte, NC 28277

Tower Engineering Professionals
326 Tryon Road
Raleigh, NC 27603
(919) 661-6351

Subject: Structural Analysis Report

Carrier Designation:	***Verizon Wireless* Co-Locate**	
	Carrier Site Number:	NG1905
	Carrier Site Name:	Newtown CT
Crown Castle Designation:	**Crown Castle BU Number:**	806354
	Crown Castle Site Name:	BRG 123 943084
	Crown Castle JDE Job Number:	591002
	Crown Castle Work Order Number:	1798392
	Crown Castle Order Number:	505497 Rev. 0
Engineering Firm Designation:	**TEP Project Number:**	83114.316569
Site Data:	**21 Berkshire Road Newtown, Newtown, Fairfield County, CT 06482** **Latitude *41° 24' 45.53"*, Longitude *-73° 16' 12.34"*** **185 Foot - Monopole Tower**	

Dear Amanda Brown,

Tower Engineering Professionals 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 – 84.1%**

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.

Structural analysis prepared by: Clint P. Oestreich / MBB

Respectfully submitted by:

Aaron T. Rucker, P.E.

Electronic Copy

10/24/2019

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2) ANALYSIS CRITERIA
Table 1 - Proposed Equipment Configuration
Table 2 - Other Considered Equipment

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3.2) Assumptions

4) ANALYSIS RESULTS
Table 4 - Section Capacity (Summary)
Table 5 - Tower Component Stresses vs. Capacity
4.1) Recommendations

5) APPENDIX A
tnxTower Output

6) APPENDIX B
Base Level Drawing

7) APPENDIX C
Additional Calculations

1) INTRODUCTION

This tower is a 185-ft monopole tower designed by Engineered Endeavors, Inc. The tower has been modified per reinforcement drawings prepared by Vertical Structures, Inc. in February of 2009. All information provided to TEP was assumed to be accurate and complete.

2) ANALYSIS CRITERIA

TIA-222 Revision:	TIA-222-H
Risk Category:	II
Wind Speed:	120 mph
Exposure Category:	C
Topographic Factor:	1.0
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)
185.0	188.0	6	Decibel	DB846F65ZAXY w/ Mount Pipe	8	1-5/8
		3	Samsung Telecom.	CBRS w/ Mount Pipe		
		6	Quintel Technology	QS8658-5 w/ Mount Pipe		
		3	Samsung Telecom.	RFV01U-D1A		
		3	Samsung Telecom.	20W CBRS		
		2	Raycap	RRFDC-3315-PF-48		
		6	Commscope	CBC78T-DS-43		
		3	Samsung Telecom.	RFV01U-D2A		
	187.0	1	SitePro 1	HRK12 Handrail Kit		
	185.0	1	Tower Mounts	Platform Mount [LP 712-1]		
		1	Tower Mounts	Side Arm Mount [SO 202-3]		
	183.0	1	SitePro 1	HRK12 Handrail Kit		

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)
182.0	188.0	1	Decibel	ASP-601	1	1/2
	182.0	1	Tower Mounts	Side Arm Mount [SO 104-3]		

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)
175.0	177.0	3	Powerwave Tech.	7770.00 w/ Mount Pipe	12 6 3	1-5/8 5/8 3/8
		3	KMW Comm.	EPBQ-654L8H6-L2 w/ Mount Pipe		
		3	CCI Antennas	OPA-65R-LCUU-H6 w/ Mount Pipe		
		12	Powerwave Tech.	7020.00		
		6	Powerwave Tech.	LGP21401		
		3	Raycap	DC6-48-60-18-8F		
		3	Ericsson	RRUS 32		
		3	Ericsson	RRUS 4478 B14		
		3	Ericsson	RRUS 32 B66		
		3	CCI Antennas	DTMABP7819VG12A		
		3	Ericsson	RRUS 11		
		3	Ericsson	RRUS 32 B2		
	175.0	1	Tower Mounts	Miscellaneous [NA 507-1]		
		1	Tower Mounts	Platform Mount [LP 712-1]		
167.0	167.0	1	Tower Mounts	Side Arm Mount [SO 104-3]	-	-
	165.0	3	Alcatel Lucent	1900MHz RRH (65MHz)		
		3	Alcatel Lucent	800MHZ RRH		
		3	Alcatel Lucent	800 External Notch Filter		
165.0	165.0	3	RFS Celwave	APXVTM14-ALU-I20 w/ Mount Pipe	4	1-1/4
		3	RFS Celwave	APXVSPP18-C-A20 w/ Mount Pipe		
		3	Alcatel Lucent	TD-RRH8x20-25		
		9	RFS Celwave	ACU-A20-N		
		1	Tower Mounts	Miscellaneous [NA 507-1]		
		1	Tower Mounts	Platform Mount [LP 712-1]		
145.0	148.0	3	Ericsson	AIR 21 B4A B2P w/ Mount Pipe	8	1-5/8
		3	Ericsson	AIR 21 B2A B4P w/ Mount Pipe		
		3	Ericsson	Radio 4449 B12/B71		
		3	Ericsson	KRY 112 144/2		
	145.0	3	RFS Celwave	APXVAARR24_43-U-NA20 w/ Mount Pipe		
		1	Tower Mounts	Site Pro 1 F3P-HRK12		
		1	Tower Mounts	Platform Mount [LP 712-1]		
110.0	111.0	1	GPS	GPS	1	1/2
	110.0	1	Tower Mounts	Side Arm Mount [SO 701-1]		
108.0	109.0	1	GPS	GPS	1	1/2
	108.0	1	Tower Mounts	Side Arm Mount [SO 701-1]		
52.0	53.0	1	GPS	GPS	1	1/2
	52.0	1	Tower Mounts	Side Arm Mount [SO 701-1]		

3) ANALYSIS PROCEDURE

Table 3 - Documents Provided

Document	Remarks	Reference	Source
Geotechnical Report	Clarence Welti Associates, Inc.	2297011	CCISites
Tower Foundation Drawings	Engineered Endeavors, Inc.	822037	CCISites
Tower Manufacturer Drawings	Engineered Endeavors, Inc.	822035	CCISites
Tower Reinforcement Drawings	Vertical Structures, Inc.	2381114	CCISites
Post-Modification Inspection	Vertical Structures, Inc.	2447231	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) The tower and foundation were built and maintained in accordance with the manufacturer's specification.
2) The configuration of antennas, transmission cables, mounts and other appurtenances are as specified in Tables 1 and 2, and the referenced drawings.
3) All tower components are in sufficient condition to carry their full design capacity.
4) Serviceability with respect to antenna twist, tilt, roll, or lateral translation, is not checked and is left to the carrier or tower owner to ensure conformance.
5) All antenna mounts and mounting hardware are structurally sufficient to carry the full design capacity requirements of appurtenance wind area and weight as provided by the original manufacturer specifications. It is the carrier's responsibility to ensure compliance to the structural limitations of the existing and/or proposed antenna mounts. TEP did not perform a site visit to verify the size, condition or capacity of the antenna mounts and did not analyze antennas supporting mounts as part of this structural analysis report.
6) When applicable, the effective projected area (EPA) of appurtenances was determined by computational fluid dynamics (CFD) testing performed by Crown Castle. TEP assumes the means and methods used to determine the EPA's yields results that follow the intent of TIA-222-H and are accurate and complete.

This analysis may be affected if any assumptions are not valid or have been made in error. Tower Engineering Professionals 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 (lb)	ϕP_{allow} (lb)	% Capacity	Pass / Fail
L1	185 - 149.46	Pole	TP36.06x29x0.25	1	-15060	1696191	39.7	Pass
L2	149.46 - 114.083	Pole	TP42.46x34.55x0.313	2	-25841	2498401	64.7	Pass
L3	114.083 - 76.666	Pole	TP49.15x40.695x0.375	3	-37033	3470701	72.5	Pass
L4	76.666 - 38.253	Pole	TP55.9x47.097x0.438	4	-51888	4605814	72.6	Pass
L5	38.253 - 0	Pole	TP62.5x53.56x0.5	5	-74439	6043852	70.8	Pass
							Summary	
						Pole (L4)	72.6	Pass
						RATING =	**72.6**	**Pass**

Table 5 - Tower Component Stresses vs. Capacity - LC7

Notes	Component	Elevation (ft)	% Capacity	Pass / Fail
1,2	Anchor Rods	-	68.8	Pass
1,2	Base Plate	-	77.0	Pass
1,2	Base Foundation Soil Interaction	-	84.1	Pass
1,2	Base Foundation Structural	-	70.0	Pass

Structure Rating (max from all components) =	**84.1%**

Notes:
1) See additional documentation in "Appendix C - Additional Calculations" for calculations supporting the % capacity listed.
2) Rating per TIA-222-H Section 15.5

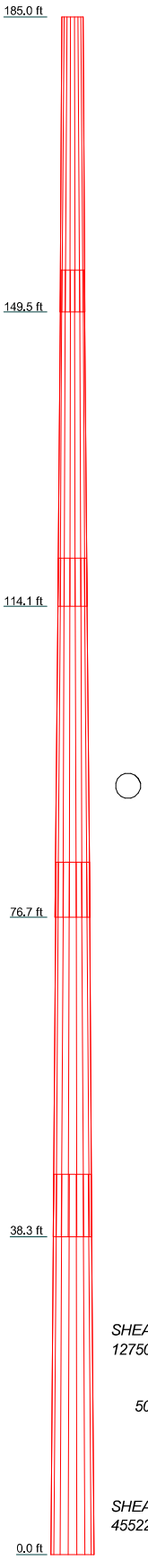
4.1) Recommendations

1) If the load differs from that described in Tables 1 and 2 of this report, the referenced drawings, or the provisions of this analysis are found to be invalid, another structural analysis should be performed.
2) The tower and its foundation have sufficient capacity to carry the proposed load configuration. No modifications are required at this time.

APPENDIX A

TNXTOWER OUTPUT

Section	1	2	3	4	5		
Length (ft)	35.54	40.46	43.25	45.08	45.75		
Number of Sides	18	18	18	18	18		
Thickness (in)	0.250	0.313	0.375	0.438	0.500		
Socket Length (ft)	5.08	5.83	6.67	7.50			
Top Dia (in)	29.000	34.550	40.695	47.097	53.560		
Bot Dia (in)	36.060	42.460	49.150	55.900	62.500		
Grade				A572-65			
Weight (lb)	3097.7	5215.5	7803.4	10876.6	14214.4		41207.5



ALL REACTIONS ARE FACTORED

AXIAL 125608 lb

SHEAR 12750 lb *MOMENT 1843453 lb-ft*

TORQUE 929 lb-ft
50 mph WIND - 1.500 in ICE

AXIAL 74469 lb

SHEAR 45522 lb *MOMENT 6307240 lb-ft*

TORQUE 4683 lb-ft
REACTIONS - 120 mph WIND

DESIGNED APPURTENANCE LOADING

TYPE	ELEVATION	TYPE	ELEVATION
SitePro 1 HRK12	187	(3) 2.4" Dia x 6-ft Pipe	175
(2) DB846F65ZAXY w/ Mount Pipe	185	8' Ladder	175
(2) DB846F65ZAXY w/ Mount Pipe	185	Miscellaneous [NA 507-1]	175
(2) QS8658-5 w/ Mount Pipe	185	Platform Mount [LP 712-1]	175
(2) QS8658-5 w/ Mount Pipe	185	1900MHz RRH (65MHz)	167
(2) QS8658-5 w/ Mount Pipe	185	1900MHz RRH (65MHz)	167
CBRS w/ Mount Pipe	185	1900MHz RRH (65MHz)	167
CBRS w/ Mount Pipe	185	800MHZ RRH	167
CBRS w/ Mount Pipe	185	800MHZ RRH	167
20W CBRS	185	800MHZ RRH	167
20W CBRS	185	800 EXTERNAL NOTCH FILTER	167
20W CBRS	185	800 EXTERNAL NOTCH FILTER	167
(2) CBC78T-DS-43	185	800 EXTERNAL NOTCH FILTER	167
(2) CBC78T-DS-43	185	(2) 2.4" Dia x 4-ft Pipe	167
(2) CBC78T-DS-43	185	(2) 2.4" Dia x 4-ft Pipe	167
RRFDC-3315-PF-48	185	(2) 2.4" Dia x 4-ft Pipe	167
RRFDC-3315-PF-48	185	2.4" Dia. x 4' Pipe (Horizontal)	167
(2) RFV01U-D1A	185	2.4" Dia. x 4' Pipe (Horizontal)	167
RFV01U-D1A	185	2.4" Dia. x 4' Pipe (Horizontal)	167
RFV01U-D2A	185	Side Arm Mount [SO 104-3]	167
RFV01U-D2A	185	APXVTM14-ALU-I20 w/ Mount Pipe	165
RFV01U-D2A	185	APXVTM14-ALU-I20 w/ Mount Pipe	165
8' Ladder	185	APXVTM14-ALU-I20 w/ Mount Pipe	165
(2) DB846F65ZAXY w/ Mount Pipe	185	APXVSPP18-C-A20 w/ Mount Pipe	165
Platform Mount [LP 712-1]	185	APXVSPP18-C-A20 w/ Mount Pipe	165
Side Arm Mount [SO 202-3]	185	APXVSPP18-C-A20 w/ Mount Pipe	165
SitePro 1 HRK12	183	TD-RRH8x20-25	165
ASP-601	182	TD-RRH8x20-25	165
2.4" Dia x 6-ft Pipe	182	TD-RRH8x20-25	165
2.4" Dia x 12-ft Pipe	182	(3) ACU-A20-N	165
Side Arm Mount [SO 104-3]	182	(3) ACU-A20-N	165
7770.00 w/ Mount Pipe	175	(3) ACU-A20-N	165
7770.00 w/ Mount Pipe	175	8' Ladder	165
7770.00 w/ Mount Pipe	175	Miscellaneous [NA 507-1]	165
EPBQ-654L8H6-L2 w/ Mount Pipe	175	Platform Mount [LP 712-1]	165
EPBQ-654L8H6-L2 w/ Mount Pipe	175	ERICSSON AIR 21 B4A B2P w/ Mount Pipe	145
EPBQ-654L8H6-L2 w/ Mount Pipe	175		
OPA-65R-LCUU-H6 w/ Mount Pipe	175	ERICSSON AIR 21 B4A B2P w/ Mount Pipe	145
OPA-65R-LCUU-H6 w/ Mount Pipe	175		
OPA-65R-LCUU-H6 w/ Mount Pipe	175	ERICSSON AIR 21 B4A B2P w/ Mount Pipe	145
(4) 7020.00	175	APXVAARR24_43-U-NA20 w/ Mount Pipe	145
(4) 7020.00	175	APXVAARR24_43-U-NA20 w/ Mount Pipe	145
(4) 7020.00	175	APXVAARR24_43-U-NA20 w/ Mount Pipe	145
(2) LGP21401	175	ERICSSON AIR 21 B2A B4P w/ Mount Pipe	145
(2) LGP21401	175		
(2) LGP21401	175	ERICSSON AIR 21 B2A B4P w/ Mount Pipe	145
DC6-48-60-18-8F	175		
DC6-48-60-18-8F	175	ERICSSON AIR 21 B2A B4P w/ Mount Pipe	145
DC6-48-60-18-8F	175		
RRUS 32	175	RADIO 4449 B12/B71	145
RRUS 32	175	RADIO 4449 B12/B71	145
RRUS 32	175	RADIO 4449 B12/B71	145
RRUS 4478 B14	175	KRY 112 144/2	145
RRUS 4478 B14	175	KRY 112 144/2	145
RRUS 4478 B14	175	KRY 112 144/2	145
RRUS 32 B66	175	8' Ladder	145
RRUS 32 B66	175	SitePro 1 F3P-HRK12	145
RRUS 32 B66	175	Platform Mount [LP 712-1]	145
DTMABP7819VG12A	175	GPS	110
DTMABP7819VG12A	175	2.4" Dia x 18" Pipe	110
DTMABP7819VG12A	175	Side Arm Mount [SO 701-1]	110
RRUS 11	175	GPS	108
RRUS 11	175	2.4" Dia x 18" Pipe	108
RRUS 11	175	Side Arm Mount [SO 701-1]	108
RRUS 32 B2	175	GPS	52
RRUS 32 B2	175	2.4" Dia x 18" Pipe	52
RRUS 32 B2	175	Side Arm Mount [SO 701-1]	52
(3) 2.4" Dia x 6-ft Pipe	175		
(3) 2.4" Dia x 6-ft Pipe	175		

MATERIAL STRENGTH

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

TOWER DESIGN NOTES

1. Tower designed for Exposure C to the TIA-222-H Standard.
2. Tower designed for a 120 mph basic wind in accordance with the TIA-222-H Standard.
3. Tower is also designed for a 50 mph basic wind with 1.50 in ice. Ice is considered to increase in thickness with height.
4. Deflections are based upon a 60 mph wind.
5. Tower Risk Category II.
6. Topographic Category 1 with Crest Height of 0.00 ft
7. TOWER RATING: 72.6%

Tower Engineering Professionals
326 Tryon Road
Raleigh NC, 27603
Phone: (919) 661-6351
FAX: (919) 661-6350

Job: BRG 123 943084 (BU 806354)			
Project: TEP No. 83114.316569			
Client: Crown Castle	Drawn by: Michael B. Bailey	App'd:	
Code: TIA-222-H	Date: 10/24/19	Scale: NTS	
Path: T:\83114\320\BRG\123\943084 BRG 123943084 Structural Analysis\Tower\806354 170592 LC7.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:

Tower base elevation above sea level: 349.00 ft.
Basic wind speed of 120 mph.
Risk Category II.
Exposure Category C.
Simplified Topographic Factor Procedure for wind speed-up calculations is used.
Topographic Category: 1.
Crest Height: 0.00 ft.
Nominal ice thickness of 1.500 in.
Ice thickness is considered to increase with height.
Ice density of 56.00 pcf.
A wind speed of 50 mph is used in combination with ice.
Temperature drop of 50 °F.
Deflections calculated using a wind speed of 60 mph.
A non-linear (P-delta) analysis was used.
Pressures are calculated at each section.
Stress ratio used in pole design is 1.05.
Tower analysis based on target reliabilities in accordance with Annex S.
Load Modification Factors used: $K_{es}(F_w) = 0.95$, $K_{es}(t_i) = 0.85$.
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	185.00-149.46	35.54	5.08	18	29.000	36.060	0.250	1.000	A572-65 (65 ksi)
L2	149.46-114.08	40.46	5.83	18	34.550	42.460	0.313	1.250	A572-65 (65 ksi)
L3	114.08-76.67	43.25	6.67	18	40.695	49.150	0.375	1.500	A572-65 (65 ksi)
L4	76.67-38.25	45.08	7.50	18	47.097	55.900	0.438	1.750	A572-65 (65 ksi)
L5	38.25-0.00	45.75		18	53.560	62.500	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	29.409	22.813	2382.308	10.206	14.732	161.710	4767.751	11.409	4.664	18.656
	36.578	28.415	4603.597	12.713	18.318	251.309	9213.253	14.210	5.907	23.626
L2	36.044	33.960	5029.336	12.154	17.552	286.547	10065.289	16.983	5.531	17.699
	43.067	41.805	9382.312	14.962	21.570	434.977	18776.969	20.906	6.923	22.153
L3	42.423	47.990	9856.592	14.313	20.673	476.788	19726.153	24.000	6.502	17.339
	49.850	58.054	17448.877	17.315	24.968	698.844	34920.713	29.033	7.990	21.308
L4	49.078	64.792	17820.988	16.564	23.925	744.866	35665.426	32.402	7.519	17.186
	56.695	77.017	29930.967	19.689	28.397	1054.011	59901.319	38.516	9.068	20.728
L5	55.798	84.207	29951.960	18.836	27.209	1100.824	59943.332	42.111	8.547	17.093
	63.387	98.394	47784.764	22.010	31.750	1505.032	95632.404	49.206	10.120	20.24

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 185.00-149.46				1	1	1			
L2 149.46-114.08				1	1	1			
L3 114.08-76.67				1	1	1			
L4 76.67-38.25				1	1	1			
L5 38.25-0.00				1	1	1			

Feed Line/Linear Appurtenances - Entered As Round Or Flat

Description	Sector	Exclude From Torque Calculation	Component Type	Placement ft	Total Number	Number Per Row	Start/End Position	Width or Diameter in	Perimeter in	Weight plf
175										
CR 50 1873PE(1-5/8)	C	No	Surface Ar (CaAa)	175.00 - 0.00	12	12	0.000 0.000	1.980		0.83
HB114-21U3M12-XXX F(1-1/4)	B	No	Surface Ar (CaAa)	165.00 - 145.00	1	1	0.250 0.250	1.540		1.22
HCS 6X12 4AWG(1-5/8)	B	No	Surface Ar	145.00 -	2	2	0.250	1.660		2.40

Description	Sector	Exclude From Torque Calculation	Component Type	Placement ft	Total Number	Number Per Row	Start/End Position	Width or Diameter in	Perimeter in	Weight plf
			(CaAa)	0.00			0.250			
Misc										
Safety Line 3/8	A	No	Surface Ar (CaAa)	185.00 - 0.00	1	1	0.500 0.500	0.375		0.22
***										

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
185									
HJ7-50A(1-5/8)	A	No	No	Inside Pole	185.00 - 0.00	8	No Ice	0.00	1.04
							1/2" Ice	0.00	1.04
							1" Ice	0.00	1.04
							2" Ice	0.00	1.04
182									
LDF4P-50A(1/2)	A	No	No	Inside Pole	182.00 - 0.00	1	No Ice	0.00	0.15
							1/2" Ice	0.00	0.15
							1" Ice	0.00	0.15
							2" Ice	0.00	0.15
2" Flexible Conduit	A	No	No	Inside Pole	175.00 - 0.00	2	No Ice	0.00	0.34
							1/2" Ice	0.00	0.34
							1" Ice	0.00	0.34
							2" Ice	0.00	0.34
FB-L98B-002-75000 (3/8)	A	No	No	Inside Pole	175.00 - 0.00	3	No Ice	0.00	0.06
							1/2" Ice	0.00	0.06
							1" Ice	0.00	0.06
							2" Ice	0.00	0.06
WR-VG82ST-BRD A(5/8)	A	No	No	Inside Pole	175.00 - 0.00	4	No Ice	0.00	0.31
							1/2" Ice	0.00	0.31
							1" Ice	0.00	0.31
							2" Ice	0.00	0.31
WR-VG82ST-BRD A(5/8)	A	No	No	CaAa (Out Of Face)	175.00 - 0.00	2	No Ice	0.00	0.31
							1/2" Ice	0.00	1.01
							1" Ice	0.00	2.32
							2" Ice	0.00	6.77
165									
HB114-1-0813U4-M 5J(1-1/4)	B	No	No	Inside Pole	165.00 - 0.00	3	No Ice	0.00	1.20
							1/2" Ice	0.00	1.20
							1" Ice	0.00	1.20
							2" Ice	0.00	1.20
HB114-21U3M12-X XXF(1-1/4)	B	No	No	CaAa (Out Of Face)	145.00 - 0.00	1	No Ice	0.00	1.22
							1/2" Ice	0.00	2.47
							1" Ice	0.00	4.32
							2" Ice	0.00	9.87
145									
LDF7-50A(1-5/8)	B	No	No	Inside Pole	145.00 - 0.00	6	No Ice	0.00	0.82
							1/2" Ice	0.00	0.82
							1" Ice	0.00	0.82
							2" Ice	0.00	0.82
110									
LDF4P-50A(1/2")	C	No	No	Inside Pole	110.00 - 0.00	1	No Ice	0.00	0.15
							1/2" Ice	0.00	0.15
							1" Ice	0.00	0.15
							2" Ice	0.00	0.15

Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Total Number		C_AA_A ft^2/ft	Weight plf
108									
LDF4P-50A(1/2")	C	No	No	Inside Pole	108.00 - 0.00	1	No Ice	0.00	0.15
							1/2" Ice	0.00	0.15
							1" Ice	0.00	0.15
							2" Ice	0.00	0.15
52									
LDF4P-50A(1/2")	C	No	No	Inside Pole	52.00 - 0.00	1	No Ice	0.00	0.15
							1/2" Ice	0.00	0.15
							1" Ice	0.00	0.15
							2" Ice	0.00	0.15
***									

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 lb
L1	185.00-149.46	A	0.000	0.000	1.333	0.000	377
		B	0.000	0.000	2.393	0.000	75
		C	0.000	0.000	60.683	0.000	254
L2	149.46-114.08	A	0.000	0.000	1.327	0.000	403
		B	0.000	0.000	10.951	0.000	471
		C	0.000	0.000	84.056	0.000	352
L3	114.08-76.67	A	0.000	0.000	1.403	0.000	426
		B	0.000	0.000	12.422	0.000	544
		C	0.000	0.000	88.903	0.000	382
L4	76.67-38.25	A	0.000	0.000	1.440	0.000	437
		B	0.000	0.000	12.753	0.000	559
		C	0.000	0.000	91.269	0.000	396
L5	38.25-0.00	A	0.000	0.000	1.434	0.000	436
		B	0.000	0.000	12.700	0.000	556
		C	0.000	0.000	90.889	0.000	398

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 lb
L1	185.00-149.46	A	1.499	0.000	0.000	11.989	0.000	715
		B		0.000	0.000	7.053	0.000	161
		C		0.000	0.000	85.426	0.000	1158
L2	149.46-114.08	A	1.464	0.000	0.000	11.934	0.000	824
		B		0.000	0.000	26.442	0.000	923
		C		0.000	0.000	118.329	0.000	1604
L3	114.08-76.67	A	1.417	0.000	0.000	12.358	0.000	854
		B		0.000	0.000	29.222	0.000	1045
		C		0.000	0.000	124.822	0.000	1675
L4	76.67-38.25	A	1.347	0.000	0.000	12.329	0.000	854
		B		0.000	0.000	29.552	0.000	1050
		C		0.000	0.000	127.697	0.000	1683
L5	38.25-0.00	A	1.209	0.000	0.000	11.743	0.000	816

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 lb
		B		0.000	0.000	28.761	0.000	1013
		C		0.000	0.000	126.497	0.000	1619

Feed Line Center of Pressure

Section	Elevation ft	CP_X in	CP_Z in	CP_X Ice in	CP_Z Ice in
L1	185.00-149.46	0.318	7.774	0.512	5.313
L2	149.46-114.08	1.233	9.348	1.554	6.306
L3	114.08-76.67	1.410	10.003	1.747	6.794
L4	76.67-38.25	1.498	10.619	1.856	7.313
L5	38.25-0.00	1.574	11.153	1.938	7.793

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
L1	8	CR 50 1873PE(1-5/8)	149.46 - 175.00	1.0000	1.0000
L1	19	HB114-21U3M12-XXXF(1-1/4)	149.46 - 165.00	1.0000	1.0000
L1	30	Safety Line 3/8	149.46 - 185.00	1.0000	1.0000
L1	22	HCS 6X12 4AWG(1-5/8)	149.46 - 145.00	1.0000	1.0000
L2	8	CR 50 1873PE(1-5/8)	114.08 - 149.46	1.0000	1.0000
L2	22	HCS 6X12 4AWG(1-5/8)	114.08 - 145.00	1.0000	1.0000
L2	30	Safety Line 3/8	114.08 - 149.46	1.0000	1.0000
L3	8	CR 50 1873PE(1-5/8)	76.67 - 114.08	1.0000	1.0000
L3	22	HCS 6X12 4AWG(1-5/8)	76.67 - 114.08	1.0000	1.0000
L3	30	Safety Line 3/8	76.67 - 114.08	1.0000	1.0000
L4	8	CR 50 1873PE(1-5/8)	38.25 - 76.67	1.0000	1.0000
L4	22	HCS 6X12 4AWG(1-5/8)	38.25 - 76.67	1.0000	1.0000
L4	30	Safety Line 3/8	38.25 - 76.67	1.0000	1.0000

Discrete Tower Loads

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 lb
185									
(2) DB846F65ZAXY w/ Mount Pipe	A	From Centroid-Leg	4.00 0.00 3.00	30.000	185.00	No Ice 1/2" Ice 1" Ice 2" Ice	7.27 7.83 8.35 9.40	7.82 9.01 9.91 11.73	47 114 189 367
(2) DB846F65ZAXY w/ Mount Pipe	B	From Centroid-Leg	4.00 0.00 3.00	30.000	185.00	No Ice 1/2" Ice 1" Ice 2" Ice	7.27 7.83 8.35 9.40	7.82 9.01 9.91 11.73	47 114 189 367
(2) DB846F65ZAXY w/ Mount Pipe	C	From Centroid-Leg	4.00 0.00 3.00	30.000	185.00	No Ice 1/2" Ice 1" Ice 2" Ice	7.27 7.83 8.35 9.40	7.82 9.01 9.91 11.73	47 114 189 367
(2) QS8658-5 w/ Mount Pipe	A	From Centroid-Leg	4.00 4.00 3.00	30.000	185.00	No Ice 1/2" Ice 1" Ice 2" Ice	5.42 5.92 6.43 7.48	5.62 6.12 6.63 7.69	131 222 326 577
(2) QS8658-5 w/ Mount Pipe	B	From Centroid-Leg	4.00 4.00 3.00	30.000	185.00	No Ice 1/2" Ice 1" Ice 2" Ice	5.42 5.92 6.43 7.48	5.62 6.12 6.63 7.69	131 222 326 577
(2) QS8658-5 w/ Mount Pipe	C	From Centroid-Leg	4.00 4.00 3.00	30.000	185.00	No Ice 1/2" Ice 1" Ice 2" Ice	5.42 5.92 6.43 7.48	5.62 6.12 6.63 7.69	131 222 326 577
CBRS w/ Mount Pipe	A	From Centroid-Leg	4.00 -2.00 3.00	30.000	185.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.71 1.93 2.17 2.66	1.17 1.44 1.72 2.35	32 50 72 127
CBRS w/ Mount Pipe	B	From Centroid-Leg	4.00 -2.00 3.00	30.000	185.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.71 1.93 2.17 2.66	1.17 1.44 1.72 2.35	32 50 72 127
CBRS w/ Mount Pipe	C	From Centroid-Leg	4.00 -2.00 3.00	30.000	185.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.71 1.93 2.17 2.66	1.17 1.44 1.72 2.35	32 50 72 127
20W CBRS	A	From Centroid-Leg	4.00 -2.00 3.00	30.000	185.00	No Ice 1/2" Ice 1" Ice 2" Ice	0.86 0.98 1.10 1.37	0.42 0.51 0.61 0.83	19 26 34 58
20W CBRS	B	From Centroid-Leg	4.00 -2.00 3.00	30.000	185.00	No Ice 1/2" Ice 1" Ice 2" Ice	0.86 0.98 1.10 1.37	0.42 0.51 0.61 0.83	19 26 34 58
20W CBRS	C	From Centroid-Leg	4.00 -2.00 3.00	30.000	185.00	No Ice 1/2" Ice 1" Ice 2" Ice	0.86 0.98 1.10 1.37	0.42 0.51 0.61 0.83	19 26 34 58
(2) CBC78T-DS-43	A	From Centroid-Leg	4.00 4.00 3.00	30.000	185.00	No Ice 1/2" Ice 1" Ice 2" Ice	0.37 0.45 0.53 0.72	0.25 0.32 0.39 0.56	11 15 20 36
(2) CBC78T-DS-43	B	From Centroid-Leg	4.00 4.00 3.00	30.000	185.00	No Ice 1/2" Ice 1" Ice 2" Ice	0.37 0.45 0.53 0.72	0.25 0.32 0.39 0.56	11 15 20 36

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 lb
(2) CBC78T-DS-43	C	From Centroid-Leg	4.00 0.00 3.00	30.000	185.00	No Ice 1/2" Ice 1" Ice 2" Ice	0.37 0.45 0.53 0.72	0.25 0.32 0.39 0.56	11 15 20 36
RRFDC-3315-PF-48	A	From Centroid-Leg	4.00 2.00 3.00	30.000	185.00	No Ice 1/2" Ice 1" Ice 2" Ice	3.36 3.60 3.84 4.34	2.19 2.39 2.61 3.05	21 50 82 158
RRFDC-3315-PF-48	C	From Centroid-Leg	4.00 2.00 3.00	30.000	185.00	No Ice 1/2" Ice 1" Ice 2" Ice	3.36 3.60 3.84 4.34	2.19 2.39 2.61 3.05	21 50 82 158
(2) RFV01U-D1A	A	From Centroid-Leg	4.00 0.00 3.00	30.000	185.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.88 2.05 2.22 2.60	1.25 1.39 1.54 1.86	84 103 124 175
RFV01U-D1A	B	From Centroid-Leg	4.00 -2.00 3.00	30.000	185.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.88 2.05 2.22 2.60	1.25 1.39 1.54 1.86	84 103 124 175
RFV01U-D2A	A	From Centroid-Leg	4.00 6.00 3.00	30.000	185.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.88 2.05 2.22 2.60	1.01 1.14 1.28 1.59	70 87 106 153
RFV01U-D2A	B	From Centroid-Leg	4.00 6.00 3.00	30.000	185.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.88 2.05 2.22 2.60	1.01 1.14 1.28 1.59	70 87 106 153
RFV01U-D2A	C	From Centroid-Leg	4.00 -2.00 3.00	30.000	185.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.88 2.05 2.22 2.60	1.01 1.14 1.28 1.59	70 87 106 153
8' Ladder	B	From Centroid-Leg	2.00 0.00 -4.00	30.000	185.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.53 4.36 7.19 12.86	5.33 8.08 10.83 16.33	97 114 131 165
SitePro 1 HRK12	C	None		0.000	187.00	No Ice 1/2" Ice 1" Ice 2" Ice	4.56 6.39 8.18 11.66	4.56 6.39 8.18 11.66	245 311 402 657
SitePro 1 HRK12	C	None		0.000	183.00	No Ice 1/2" Ice 1" Ice 2" Ice	4.56 6.39 8.18 11.66	4.56 6.39 8.18 11.66	245 311 402 657
Platform Mount [LP 712-1]	C	None		0.000	185.00	No Ice 1/2" Ice 1" Ice 2" Ice	24.56 27.92 31.27 37.98	24.56 27.92 31.27 37.98	1335 1915 2548 3971
Side Arm Mount [SO 202-3]	C	None		0.000	185.00	No Ice 1/2" Ice 1" Ice 2" Ice	5.70 6.97 8.33 11.33	5.70 6.97 8.33 11.33	330 398 490 746
182 ASP-601	B	From Leg	1.00 0.00 6.00	-20.000	182.00	No Ice 1/2" Ice 1" Ice 2" Ice	2.34 4.21 6.08 9.83	2.34 4.21 6.08 9.83	28 36 45 62

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 lb
2.4" Dia x 6-ft Pipe	B	From Leg	1.00 0.00 6.00	0.000	182.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.43 1.93 2.30 3.06	1.43 1.93 2.30 3.06	22 33 48 90
2.4" Dia x 12-ft Pipe	B	From Leg	1.00 0.00 6.00	0.000	182.00	No Ice 1/2" Ice 1" Ice 2" Ice	2.86 4.08 5.33 7.61	2.86 4.08 5.33 7.61	40 62 91 173
Side Arm Mount [SO 104-3]	C	None		0.000	182.00	No Ice 1/2" Ice 1" Ice 2" Ice	2.62 3.30 3.98 5.35	2.62 3.30 3.98 5.35	288 408 528 768
175									
7770.00 w/ Mount Pipe	A	From Centroid-Leg	4.00 -6.00 2.00	23.000	175.00	No Ice 1/2" Ice 1" Ice 2" Ice	5.75 6.18 6.61 7.49	4.25 5.01 5.71 7.16	55 103 157 287
7770.00 w/ Mount Pipe	B	From Centroid-Leg	4.00 -6.00 2.00	23.000	175.00	No Ice 1/2" Ice 1" Ice 2" Ice	5.75 6.18 6.61 7.49	4.25 5.01 5.71 7.16	55 103 157 287
7770.00 w/ Mount Pipe	C	From Centroid-Leg	4.00 -6.00 2.00	23.000	175.00	No Ice 1/2" Ice 1" Ice 2" Ice	5.75 6.18 6.61 7.49	4.25 5.01 5.71 7.16	55 103 157 287
EPBQ-654L8H6-L2 w/ Mount Pipe	A	From Centroid-Leg	4.00 -2.00 2.00	30.000	175.00	No Ice 1/2" Ice 1" Ice 2" Ice	11.09 11.77 12.46 13.88	4.69 5.28 5.89 7.13	110 194 291 519
EPBQ-654L8H6-L2 w/ Mount Pipe	B	From Centroid-Leg	4.00 2.00 2.00	30.000	175.00	No Ice 1/2" Ice 1" Ice 2" Ice	11.09 11.77 12.46 13.88	4.69 5.28 5.89 7.13	110 194 291 519
EPBQ-654L8H6-L2 w/ Mount Pipe	C	From Centroid-Leg	4.00 2.00 2.00	30.000	175.00	No Ice 1/2" Ice 1" Ice 2" Ice	11.09 11.77 12.46 13.88	4.69 5.28 5.89 7.13	110 194 291 519
OPA-65R-LCUU-H6 w/ Mount Pipe	A	From Centroid-Leg	4.00 2.00 2.00	30.000	175.00	No Ice 1/2" Ice 1" Ice 2" Ice	9.19 9.94 10.71 12.30	6.21 6.93 7.66 9.17	106 175 256 451
OPA-65R-LCUU-H6 w/ Mount Pipe	B	From Centroid-Leg	4.00 6.00 2.00	30.000	175.00	No Ice 1/2" Ice 1" Ice 2" Ice	9.19 9.94 10.71 12.30	6.21 6.93 7.66 9.17	106 175 256 451
OPA-65R-LCUU-H6 w/ Mount Pipe	C	From Centroid-Leg	4.00 6.00 2.00	30.000	175.00	No Ice 1/2" Ice 1" Ice 2" Ice	9.19 9.94 10.71 12.30	6.21 6.93 7.66 9.17	106 175 256 451
(4) 7020.00	A	From Centroid-Leg	4.00 -6.00 2.00	23.000	175.00	No Ice 1/2" Ice 1" Ice 2" Ice	0.10 0.15 0.20 0.33	0.17 0.24 0.31 0.48	2 5 9 22
(4) 7020.00	B	From Centroid-Leg	4.00 -6.00 2.00	23.000	175.00	No Ice 1/2" Ice 1" Ice 2" Ice	0.10 0.15 0.20 0.33	0.17 0.24 0.31 0.48	2 5 9 22

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 lb
(4) 7020.00	C	From Centroid-Leg	4.00 -6.00 2.00	23.000	175.00	No Ice 1/2" Ice 1" Ice 2" Ice	0.10 0.15 0.20 0.33	0.17 0.24 0.31 0.48	2 5 9 22
(2) LGP21401	A	From Centroid-Leg	4.00 -6.00 2.00	23.000	175.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.10 1.24 1.38 1.69	0.21 0.27 0.35 0.52	14 21 30 55
(2) LGP21401	B	From Centroid-Leg	4.00 -6.00 2.00	23.000	175.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.10 1.24 1.38 1.69	0.21 0.27 0.35 0.52	14 21 30 55
(2) LGP21401	C	From Centroid-Leg	4.00 -6.00 2.00	23.000	175.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.10 1.24 1.38 1.69	0.21 0.27 0.35 0.52	14 21 30 55
DC6-48-60-18-8F	A	From Centroid-Leg	4.00 -2.00 2.00	30.000	175.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.21 1.89 2.11 2.57	1.21 1.89 2.11 2.57	33 55 80 138
DC6-48-60-18-8F	B	From Centroid-Leg	4.00 2.00 2.00	30.000	175.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.21 1.89 2.11 2.57	1.21 1.89 2.11 2.57	33 55 80 138
DC6-48-60-18-8F	C	From Centroid-Leg	4.00 2.00 2.00	30.000	175.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.21 1.89 2.11 2.57	1.21 1.89 2.11 2.57	33 55 80 138
RRUS 32	A	From Centroid-Leg	4.00 -2.00 2.00	30.000	175.00	No Ice 1/2" Ice 1" Ice 2" Ice	2.86 3.08 3.32 3.81	1.78 1.97 2.17 2.58	55 77 103 165
RRUS 32	B	From Centroid-Leg	4.00 2.00 2.00	30.000	175.00	No Ice 1/2" Ice 1" Ice 2" Ice	2.86 3.08 3.32 3.81	1.78 1.97 2.17 2.58	55 77 103 165
RRUS 32	C	From Centroid-Leg	4.00 2.00 2.00	30.000	175.00	No Ice 1/2" Ice 1" Ice 2" Ice	2.86 3.08 3.32 3.81	1.78 1.97 2.17 2.58	55 77 103 165
RRUS 4478 B14	A	From Centroid-Leg	4.00 -2.00 2.00	30.000	175.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.84 2.01 2.19 2.57	1.06 1.20 1.34 1.66	60 76 94 140
RRUS 4478 B14	B	From Centroid-Leg	4.00 2.00 2.00	30.000	175.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.84 2.01 2.19 2.57	1.06 1.20 1.34 1.66	60 76 94 140
RRUS 4478 B14	C	From Centroid-Leg	4.00 2.00 2.00	30.000	175.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.84 2.01 2.19 2.57	1.06 1.20 1.34 1.66	60 76 94 140
RRUS 32 B66	A	From Centroid-Leg	4.00 -2.00 2.00	30.000	175.00	No Ice 1/2" Ice 1" Ice 2" Ice	2.74 2.96 3.19 3.68	1.67 1.86 2.05 2.46	53 74 98 157
RRUS 32 B66	B	From	4.00	30.000	175.00	No Ice	2.74	1.67	53

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 lb
		Centroid-Le	2.00			1/2" Ice	2.96	1.86	74
		g	2.00			1" Ice	3.19	2.05	98
						2" Ice	3.68	2.46	157
RRUS 32 B66	C	From	4.00	30.000	175.00	No Ice	2.74	1.67	53
		Centroid-Le	2.00			1/2" Ice	2.96	1.86	74
		g	2.00			1" Ice	3.19	2.05	98
						2" Ice	3.68	2.46	157
DTMABP7819VG12A	A	From	4.00	30.000	175.00	No Ice	0.98	0.34	19
		Centroid-Le	2.00			1/2" Ice	1.10	0.42	26
		g	2.00			1" Ice	1.23	0.51	36
						2" Ice	1.52	0.71	60
DTMABP7819VG12A	B	From	4.00	30.000	175.00	No Ice	0.98	0.34	19
		Centroid-Le	6.00			1/2" Ice	1.10	0.42	26
		g	2.00			1" Ice	1.23	0.51	36
						2" Ice	1.52	0.71	60
DTMABP7819VG12A	C	From	4.00	30.000	175.00	No Ice	0.98	0.34	19
		Centroid-Le	6.00			1/2" Ice	1.10	0.42	26
		g	2.00			1" Ice	1.23	0.51	36
						2" Ice	1.52	0.71	60
RRUS 11	A	From	4.00	30.000	175.00	No Ice	2.79	1.19	51
		Centroid-Le	2.00			1/2" Ice	3.00	1.34	72
		g	2.00			1" Ice	3.21	1.50	95
						2" Ice	3.67	1.84	153
RRUS 11	B	From	4.00	30.000	175.00	No Ice	2.79	1.19	51
		Centroid-Le	6.00			1/2" Ice	3.00	1.34	72
		g	2.00			1" Ice	3.21	1.50	95
						2" Ice	3.67	1.84	153
RRUS 11	C	From	4.00	30.000	175.00	No Ice	2.79	1.19	51
		Centroid-Le	6.00			1/2" Ice	3.00	1.34	72
		g	2.00			1" Ice	3.21	1.50	95
						2" Ice	3.67	1.84	153
RRUS 32 B2	A	From	4.00	30.000	175.00	No Ice	2.73	1.67	53
		Centroid-Le	2.00			1/2" Ice	2.95	1.86	74
		g	2.00			1" Ice	3.18	2.05	98
						2" Ice	3.66	2.46	157
RRUS 32 B2	B	From	4.00	30.000	175.00	No Ice	2.73	1.67	53
		Centroid-Le	6.00			1/2" Ice	2.95	1.86	74
		g	2.00			1" Ice	3.18	2.05	98
						2" Ice	3.66	2.46	157
RRUS 32 B2	C	From	4.00	30.000	175.00	No Ice	2.73	1.67	53
		Centroid-Le	6.00			1/2" Ice	2.95	1.86	74
		g	2.00			1" Ice	3.18	2.05	98
						2" Ice	3.66	2.46	157
(3) 2.4" Dia x 6-ft Pipe	A	From	4.00	0.000	175.00	No Ice	1.43	1.43	22
		Centroid-Le	0.00			1/2" Ice	1.93	1.93	33
		g	1.00			1" Ice	2.30	2.30	48
						2" Ice	3.06	3.06	90
(3) 2.4" Dia x 6-ft Pipe	B	From	4.00	0.000	175.00	No Ice	1.43	1.43	22
		Centroid-Le	0.00			1/2" Ice	1.93	1.93	33
		g	1.00			1" Ice	2.30	2.30	48
						2" Ice	3.06	3.06	90
(3) 2.4" Dia x 6-ft Pipe	C	From	4.00	0.000	175.00	No Ice	1.43	1.43	22
		Centroid-Le	0.00			1/2" Ice	1.93	1.93	33
		g	1.00			1" Ice	2.30	2.30	48
						2" Ice	3.06	3.06	90
8' Ladder	A	From	2.00	0.000	175.00	No Ice	1.53	5.33	97
		Centroid-Le	0.00			1/2" Ice	4.36	8.08	114

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 lb
		g	-4.00			1" Ice	7.19	10.83	131
						2" Ice	12.86	16.33	165
Miscellaneous [NA 507-1]	C	None		0.000	175.00	No Ice	4.56	4.56	245
						1/2" Ice	6.39	6.39	311
						1" Ice	8.18	8.18	402
						2" Ice	11.66	11.66	657
Platform Mount [LP 712-1]	C	None		0.000	175.00	No Ice	24.56	24.56	1335
						1/2" Ice	27.92	27.92	1915
						1" Ice	31.27	31.27	2548
						2" Ice	37.98	37.98	3971
167									
1900MHz RRH (65MHz)	A	From Leg	1.00 0.00 -2.00	0.000	167.00	No Ice 1/2" Ice 1" Ice 2" Ice	2.31 2.52 2.73 3.17	2.38 2.58 2.79 3.24	60 84 111 176
1900MHz RRH (65MHz)	B	From Leg	1.00 0.00 -2.00	0.000	167.00	No Ice 1/2" Ice 1" Ice 2" Ice	2.31 2.52 2.73 3.17	2.38 2.58 2.79 3.24	60 84 111 176
1900MHz RRH (65MHz)	C	From Leg	1.00 0.00 -2.00	0.000	167.00	No Ice 1/2" Ice 1" Ice 2" Ice	2.31 2.52 2.73 3.17	2.38 2.58 2.79 3.24	60 84 111 176
800MHZ RRH	A	From Leg	1.00 0.00 -2.00	0.000	167.00	No Ice 1/2" Ice 1" Ice 2" Ice	2.13 2.32 2.51 2.92	1.77 1.95 2.13 2.51	53 74 98 157
800MHZ RRH	B	From Leg	1.00 0.00 -2.00	0.000	167.00	No Ice 1/2" Ice 1" Ice 2" Ice	2.13 2.32 2.51 2.92	1.77 1.95 2.13 2.51	53 74 98 157
800MHZ RRH	C	From Leg	1.00 0.00 -2.00	0.000	167.00	No Ice 1/2" Ice 1" Ice 2" Ice	2.13 2.32 2.51 2.92	1.77 1.95 2.13 2.51	53 74 98 157
800 EXTERNAL NOTCH FILTER	A	From Leg	1.00 0.00 -2.00	0.000	167.00	No Ice 1/2" Ice 1" Ice 2" Ice	0.66 0.76 0.87 1.11	0.32 0.40 0.48 0.67	11 17 24 45
800 EXTERNAL NOTCH FILTER	B	From Leg	1.00 0.00 -2.00	0.000	167.00	No Ice 1/2" Ice 1" Ice 2" Ice	0.66 0.76 0.87 1.11	0.32 0.40 0.48 0.67	11 17 24 45
800 EXTERNAL NOTCH FILTER	C	From Leg	1.00 0.00 -2.00	0.000	167.00	No Ice 1/2" Ice 1" Ice 2" Ice	0.66 0.76 0.87 1.11	0.32 0.40 0.48 0.67	11 17 24 45
(2) 2.4" Dia x 4-ft Pipe	A	From Leg	1.00 0.00 0.00	0.000	167.00	No Ice 1/2" Ice 1" Ice 2" Ice	0.87 1.12 1.37 1.91	0.87 1.12 1.37 1.91	15 22 32 62
(2) 2.4" Dia x 4-ft Pipe	B	From Leg	1.00 0.00 0.00	0.000	167.00	No Ice 1/2" Ice 1" Ice 2" Ice	0.87 1.12 1.37 1.91	0.87 1.12 1.37 1.91	15 22 32 62
(2) 2.4" Dia x 4-ft Pipe	C	From Leg	1.00 0.00	0.000	167.00	No Ice 1/2" Ice	0.87 1.12	0.87 1.12	15 22

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 lb
			0.00			1" Ice	1.37	1.37	32
						2" Ice	1.91	1.91	62
2.4" Dia. x 4' Pipe (Horizontal)	A	From Leg	1.00 0.00 0.00	0.000	167.00	No Ice 1/2" Ice 1" Ice 2" Ice	0.87 1.12 1.37 1.91	0.87 1.12 1.37 1.91	15 22 32 62
2.4" Dia. x 4' Pipe (Horizontal)	B	From Leg	1.00 0.00 0.00	0.000	167.00	No Ice 1/2" Ice 1" Ice 2" Ice	0.87 1.12 1.37 1.91	0.87 1.12 1.37 1.91	15 22 32 62
2.4" Dia. x 4' Pipe (Horizontal)	C	From Leg	1.00 0.00 0.00	0.000	167.00	No Ice 1/2" Ice 1" Ice 2" Ice	0.87 1.12 1.37 1.91	0.87 1.12 1.37 1.91	15 22 32 62
Side Arm Mount [SO 104-3]	C	None		0.000	167.00	No Ice 1/2" Ice 1" Ice 2" Ice	2.62 3.30 3.98 5.35	2.62 3.30 3.98 5.35	288 408 528 768
165									
APXVTM14-ALU-I20 w/ Mount Pipe	A	From Centroid-Face	4.00 -6.00 0.00	-18.000	165.00	No Ice 1/2" Ice 1" Ice 2" Ice	4.09 4.48 4.88 5.71	2.86 3.23 3.61 4.40	77 127 185 331
APXVTM14-ALU-I20 w/ Mount Pipe	B	From Centroid-Face	4.00 -6.00 0.00	-10.000	165.00	No Ice 1/2" Ice 1" Ice 2" Ice	4.09 4.48 4.88 5.71	2.86 3.23 3.61 4.40	77 127 185 331
APXVTM14-ALU-I20 w/ Mount Pipe	C	From Centroid-Face	4.00 -6.00 0.00	30.000	165.00	No Ice 1/2" Ice 1" Ice 2" Ice	4.09 4.48 4.88 5.71	2.86 3.23 3.61 4.40	77 127 185 331
APXVSPP18-C-A20 w/ Mount Pipe	A	From Centroid-Face	4.00 6.00 0.00	-15.000	165.00	No Ice 1/2" Ice 1" Ice 2" Ice	4.60 5.05 5.50 6.44	4.01 4.45 4.89 5.82	95 160 235 419
APXVSPP18-C-A20 w/ Mount Pipe	B	From Centroid-Face	4.00 6.00 0.00	-10.000	165.00	No Ice 1/2" Ice 1" Ice 2" Ice	4.60 5.05 5.50 6.44	4.01 4.45 4.89 5.82	95 160 235 419
APXVSPP18-C-A20 w/ Mount Pipe	C	From Centroid-Face	4.00 6.00 0.00	-30.000	165.00	No Ice 1/2" Ice 1" Ice 2" Ice	4.60 5.05 5.50 6.44	4.01 4.45 4.89 5.82	95 160 235 419
TD-RRH8x20-25	A	From Centroid-Face	4.00 -6.00 0.00	-18.000	165.00	No Ice 1/2" Ice 1" Ice 2" Ice	3.70 3.95 4.20 4.72	1.29 1.46 1.64 2.02	66 90 117 183
TD-RRH8x20-25	B	From Centroid-Face	4.00 -6.00 0.00	-10.000	165.00	No Ice 1/2" Ice 1" Ice 2" Ice	3.70 3.95 4.20 4.72	1.29 1.46 1.64 2.02	66 90 117 183
TD-RRH8x20-25	C	From Centroid-Face	4.00 -6.00 0.00	-30.000	165.00	No Ice 1/2" Ice 1" Ice 2" Ice	3.70 3.95 4.20 4.72	1.29 1.46 1.64 2.02	66 90 117 183
(3) ACU-A20-N	A	From Centroid-Fa	4.00 6.00	-15.000	165.00	No Ice 1/2" Ice	0.07 0.10	0.12 0.16	1 2

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 lb
		ce	0.00			1" Ice	0.15	0.21	4
						2" Ice	0.26	0.34	12
(3) ACU-A20-N	B	From Centroid-Face	4.00 6.00 0.00	-10.000	165.00	No Ice 1/2" Ice 1" Ice 2" Ice	0.07 0.10 0.15 0.26	0.12 0.16 0.21 0.34	1 2 4 12
(3) ACU-A20-N	C	From Centroid-Face	4.00 6.00 0.00	-30.000	165.00	No Ice 1/2" Ice 1" Ice 2" Ice	0.07 0.10 0.15 0.26	0.12 0.16 0.21 0.34	1 2 4 12
8' Ladder	A	From Centroid-Face	2.00 0.00 -4.00	0.000	165.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.53 4.36 7.19 12.86	5.33 8.08 10.83 16.33	97 114 131 165
Miscellaneous [NA 507-1]	C	None		0.000	165.00	No Ice 1/2" Ice 1" Ice 2" Ice	4.56 6.39 8.18 11.66	4.56 6.39 8.18 11.66	245 311 402 657
Platform Mount [LP 712-1]	C	None		0.000	165.00	No Ice 1/2" Ice 1" Ice 2" Ice	24.56 27.92 31.27 37.98	24.56 27.92 31.27 37.98	1335 1915 2548 3971
*** **145**									
ERICSSON AIR 21 B4A B2P w/ Mount Pipe	A	From Centroid-Face	4.00 -6.00 3.00	-20.000	145.00	No Ice 1/2" Ice 1" Ice 2" Ice	6.33 6.78 7.21 8.12	5.64 6.43 7.13 8.59	112 169 233 383
ERICSSON AIR 21 B4A B2P w/ Mount Pipe	B	From Centroid-Face	4.00 -6.00 3.00	-5.000	145.00	No Ice 1/2" Ice 1" Ice 2" Ice	6.33 6.78 7.21 8.12	5.64 6.43 7.13 8.59	112 169 233 383
ERICSSON AIR 21 B4A B2P w/ Mount Pipe	C	From Centroid-Face	4.00 -6.00 3.00	-5.000	145.00	No Ice 1/2" Ice 1" Ice 2" Ice	6.33 6.78 7.21 8.12	5.64 6.43 7.13 8.59	112 169 233 383
APXVAARR24_43-U-NA20 w/ Mount Pipe	A	From Centroid-Face	4.00 -2.00 0.00	-20.000	145.00	No Ice 1/2" Ice 1" Ice 2" Ice	14.69 15.46 16.23 17.82	6.87 7.55 8.25 9.67	186 315 458 788
APXVAARR24_43-U-NA20 w/ Mount Pipe	B	From Centroid-Face	4.00 -2.00 0.00	-5.000	145.00	No Ice 1/2" Ice 1" Ice 2" Ice	14.69 15.46 16.23 17.82	6.87 7.55 8.25 9.67	186 315 458 788
APXVAARR24_43-U-NA20 w/ Mount Pipe	C	From Centroid-Face	4.00 -2.00 0.00	-5.000	145.00	No Ice 1/2" Ice 1" Ice 2" Ice	14.69 15.46 16.23 17.82	6.87 7.55 8.25 9.67	186 315 458 788
ERICSSON AIR 21 B2A B4P w/ Mount Pipe	A	From Centroid-Face	4.00 6.00 3.00	-20.000	145.00	No Ice 1/2" Ice 1" Ice 2" Ice	6.33 6.78 7.21 8.12	5.64 6.43 7.13 8.59	112 169 233 383
ERICSSON AIR 21 B2A B4P w/ Mount Pipe	B	From Centroid-Face	4.00 6.00 3.00	-5.000	145.00	No Ice 1/2" Ice 1" Ice 2" Ice	6.33 6.78 7.21 8.12	5.64 6.43 7.13 8.59	112 169 233 383
ERICSSON AIR 21 B2A	C	From	4.00	-5.000	145.00	No Ice	6.33	5.64	112

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 lb
B4P w/ Mount Pipe		Centroid-Face	6.00 3.00			1/2" Ice 1" Ice 2" Ice	6.78 7.21 8.12	6.43 7.13 8.59	169 233 383
RADIO 4449 B12/B71	A	From Centroid-Face	4.00 -2.00 3.00	-20.000	145.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.64 1.80 1.97 2.33	1.15 1.29 1.44 1.75	74 90 109 155
RADIO 4449 B12/B71	B	From Centroid-Face	4.00 -2.00 3.00	-5.000	145.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.64 1.80 1.97 2.33	1.15 1.29 1.44 1.75	74 90 109 155
RADIO 4449 B12/B71	C	From Centroid-Face	4.00 -2.00 3.00	-5.000	145.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.64 1.80 1.97 2.33	1.15 1.29 1.44 1.75	74 90 109 155
KRY 112 144/2	A	From Centroid-Face	4.00 6.00 3.00	-20.000	145.00	No Ice 1/2" Ice 1" Ice 2" Ice	0.48 0.57 0.66 0.88	0.23 0.30 0.38 0.55	10 14 19 35
KRY 112 144/2	B	From Centroid-Face	4.00 6.00 3.00	-5.000	145.00	No Ice 1/2" Ice 1" Ice 2" Ice	0.48 0.57 0.66 0.88	0.23 0.30 0.38 0.55	10 14 19 35
KRY 112 144/2	C	From Centroid-Face	4.00 6.00 3.00	-5.000	145.00	No Ice 1/2" Ice 1" Ice 2" Ice	0.48 0.57 0.66 0.88	0.23 0.30 0.38 0.55	10 14 19 35
8' Ladder	A	From Centroid-Face	2.00 0.00 0.00	0.000	145.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.53 4.36 7.19 12.86	5.33 8.08 10.83 16.33	97 114 131 165
SitePro 1 F3P-HRK12	C	None		0.000	145.00	No Ice 1/2" Ice 1" Ice 2" Ice	4.56 6.39 8.18 11.66	4.56 6.39 8.18 11.66	245 311 402 657
Platform Mount [LP 712-1]	C	None		0.000	145.00	No Ice 1/2" Ice 1" Ice 2" Ice	24.56 27.92 31.27 37.98	24.56 27.92 31.27 37.98	1335 1915 2548 3971
110 GPS	C	From Face	3.00 0.00 1.00	0.000	110.00	No Ice 1/2" Ice 1" Ice 2" Ice	0.08 0.14 0.22 0.40	0.08 0.14 0.22 0.40	10 11 13 20
2.4" Dia x 18" Pipe	C	From Face	3.00 0.00 0.00	0.000	110.00	No Ice 1/2" Ice 1" Ice 2" Ice	0.24 0.34 0.46 0.70	0.24 0.34 0.46 0.70	6 8 13 26
Side Arm Mount [SO 701-1]	C	From Face	1.50 0.00 0.00	0.000	110.00	No Ice 1/2" Ice 1" Ice 2" Ice	0.85 1.14 1.43 2.01	1.67 2.34 3.01 4.35	65 79 93 121
108 GPS	C	From Leg	3.00 0.00 1.00	0.000	108.00	No Ice 1/2" Ice 1" Ice 2" Ice	0.08 0.14 0.22 0.40	0.08 0.14 0.22 0.40	10 11 13 20

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 lb
2.4" Dia x 18" Pipe	C	From Leg	3.00 0.00 0.00	0.000	108.00	No Ice 1/2" Ice 1" Ice 2" Ice	0.24 0.34 0.46 0.70	0.24 0.34 0.46 0.70	6 8 13 26
Side Arm Mount [SO 701-1]	C	From Leg	1.50 0.00 0.00	0.000	108.00	No Ice 1/2" Ice 1" Ice 2" Ice	0.85 1.14 1.43 2.01	1.67 2.34 3.01 4.35	65 79 93 121
52									
GPS	C	From Face	3.00 0.00 1.00	0.000	52.00	No Ice 1/2" Ice 1" Ice 2" Ice	0.08 0.14 0.22 0.40	0.08 0.14 0.22 0.40	10 11 13 20
2.4" Dia x 18" Pipe	C	From Face	3.00 0.00 0.00	0.000	52.00	No Ice 1/2" Ice 1" Ice 2" Ice	0.24 0.34 0.46 0.70	0.24 0.34 0.46 0.70	6 8 13 26
Side Arm Mount [SO 701-1]	C	From Face	1.50 0.00 0.00	0.000	52.00	No Ice 1/2" Ice 1" Ice 2" Ice	0.85 1.14 1.43 2.01	1.67 2.34 3.01 4.35	65 79 93 121
***									

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

Comb. No.	Description
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
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 Tower Deflections - Service Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L1	185 - 149.46	33.175	47	1.582	0.006
L2	154.543 - 114.083	23.366	47	1.452	0.004
L3	119.916 - 76.666	13.847	47	1.130	0.002
L4	83.333 - 38.253	6.530	47	0.748	0.001
L5	45.753 - 0	1.961	47	0.387	0.000

Critical Deflections and Radius of Curvature - Service Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
187.00	SitePro 1 HRK12	47	33.175	1.582	0.006	46465
185.00	(2) DB846F65ZAXY w/ Mount Pipe	47	33.175	1.582	0.006	46465
183.00	SitePro 1 HRK12	47	32.515	1.576	0.006	46465
182.00	ASP-601	47	32.185	1.572	0.006	46465
175.00	7770.00 w/ Mount Pipe	47	29.883	1.550	0.005	23232
167.00	1900MHz RRH (65MHz)	47	27.284	1.519	0.005	12906
165.00	APXVTM14-ALU-I20 w/ Mount Pipe	47	26.643	1.510	0.005	11615
145.00	ERICSSON AIR 21 B4A B2P w/ Mount Pipe	47	20.520	1.379	0.003	6815
110.00	GPS	47	11.579	1.025	0.002	5484
108.00	GPS	47	11.148	1.004	0.002	5517

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
52.00	GPS	47	2.502	0.444	0.001	5175

Maximum Tower Deflections - Design Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L1	185 - 149.46	141.523	18	6.759	0.024
L2	154.543 - 114.083	99.763	18	6.205	0.017
L3	119.916 - 76.666	59.170	18	4.834	0.009
L4	83.333 - 38.253	27.918	18	3.200	0.004
L5	45.753 - 0	8.385	18	1.653	0.002

Critical Deflections and Radius of Curvature - Design Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
187.00	SitePro 1 HRK12	18	141.523	6.759	0.024	11269
185.00	(2) DB846F65ZAXY w/ Mount Pipe	18	141.523	6.759	0.024	11269
183.00	SitePro 1 HRK12	18	138.714	6.732	0.024	11269
182.00	ASP-601	18	137.310	6.719	0.024	11269
175.00	7770.00 w/ Mount Pipe	18	127.513	6.622	0.022	5633
167.00	1900MHz RRH (65MHz)	18	116.450	6.490	0.020	3127
165.00	APXVTM14-ALU-I20 w/ Mount Pipe	18	113.719	6.452	0.020	2814
145.00	ERICSSON AIR 21 B4A B2P w/ Mount Pipe	18	87.633	5.895	0.015	1640
110.00	GPS	18	49.488	4.386	0.007	1300
108.00	GPS	18	47.647	4.295	0.007	1307
52.00	GPS	18	10.696	1.897	0.002	1213

Compression Checks

Pole Design Data

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in^2	P_u lb	ϕP_n lb	Ratio $\frac{P_u}{\phi P_n}$
L1	185 - 149.46 (1)	TP36.06x29x0.25	35.54	0.00	0.0	27.614	-15060	1615420	0.009
L2	149.46 - 114.083 (2)	TP42.46x34.55x0.313	40.46	0.00	0.0	40.674	-25841	2379430	0.011
L3	114.083 - 76.666 (3)	TP49.15x40.695x0.375	43.25	0.00	0.0	56.503	-37033	3305430	0.011
L4	76.666 -	TP55.9x47.097x0.438	45.08	0.00	0.0	74.983	-51888	4386490	0.012

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in^2	P_u lb	ϕP_n lb	Ratio $\frac{P_u}{\phi P_n}$
L5	38.253 (4) 38.253 - 0 (5)	TP62.5x53.56x0.5	45.75	0.00	0.0	98.394	-74439	5756050	0.013

Pole Bending Design Data

Section No.	Elevation ft	Size	M_{ux} lb-ft	ϕM_{nx} lb-ft	Ratio $\frac{M_{ux}}{\phi M_{nx}}$	M_{uy} lb-ft	ϕM_{ny} lb-ft	Ratio $\frac{M_{uy}}{\phi M_{ny}}$
L1	185 - 149.46 (1)	TP36.06x29x0.25	529483	1306508	0.405	0	1306508	0.000
L2	149.46 - 114.083 (2)	TP42.46x34.55x0.313	1545067	2317658	0.667	0	2317658	0.000
L3	114.083 - 76.666 (3)	TP49.15x40.695x0.375	2824767	3773733	0.749	0	3773733	0.000
L4	76.666 - 38.253 (4)	TP55.9x47.097x0.438	4306033	5744408	0.750	0	5744408	0.000
L5	38.253 - 0 (5)	TP62.5x53.56x0.5	6307241	8641833	0.730	0	8641833	0.000

Pole Shear Design Data

Section No.	Elevation ft	Size	Actual V_u lb	ϕV_n lb	Ratio $\frac{V_u}{\phi V_n}$	Actual T_u lb-ft	ϕT_n lb-ft	Ratio $\frac{T_u}{\phi T_n}$
L1	185 - 149.46 (1)	TP36.06x29x0.25	23464	484626	0.048	3050	1476958	0.002
L2	149.46 - 114.083 (2)	TP42.46x34.55x0.313	32599	713829	0.046	3641	2563500	0.001
L3	114.083 - 76.666 (3)	TP49.15x40.695x0.375	37160	991629	0.037	3357	4122525	0.001
L4	76.666 - 38.253 (4)	TP55.9x47.097x0.438	41522	1315950	0.032	3082	6222933	0.000
L5	38.253 - 0 (5)	TP62.5x53.56x0.5	45571	1726810	0.026	3079	9376000	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	185 - 149.46 (1)	0.009	0.405	0.000	0.048	0.002	0.417	1.050	4.8.2
L2	149.46 - 114.083 (2)	0.011	0.667	0.000	0.046	0.001	0.680	1.050	4.8.2
L3	114.083 - 76.666 (3)	0.011	0.749	0.000	0.037	0.001	0.761	1.050	4.8.2
L4	76.666 - 38.253 (4)	0.012	0.750	0.000	0.032	0.000	0.762	1.050	4.8.2
L5	38.253 - 0 (5)	0.013	0.730	0.000	0.026	0.000	0.743	1.050	4.8.2

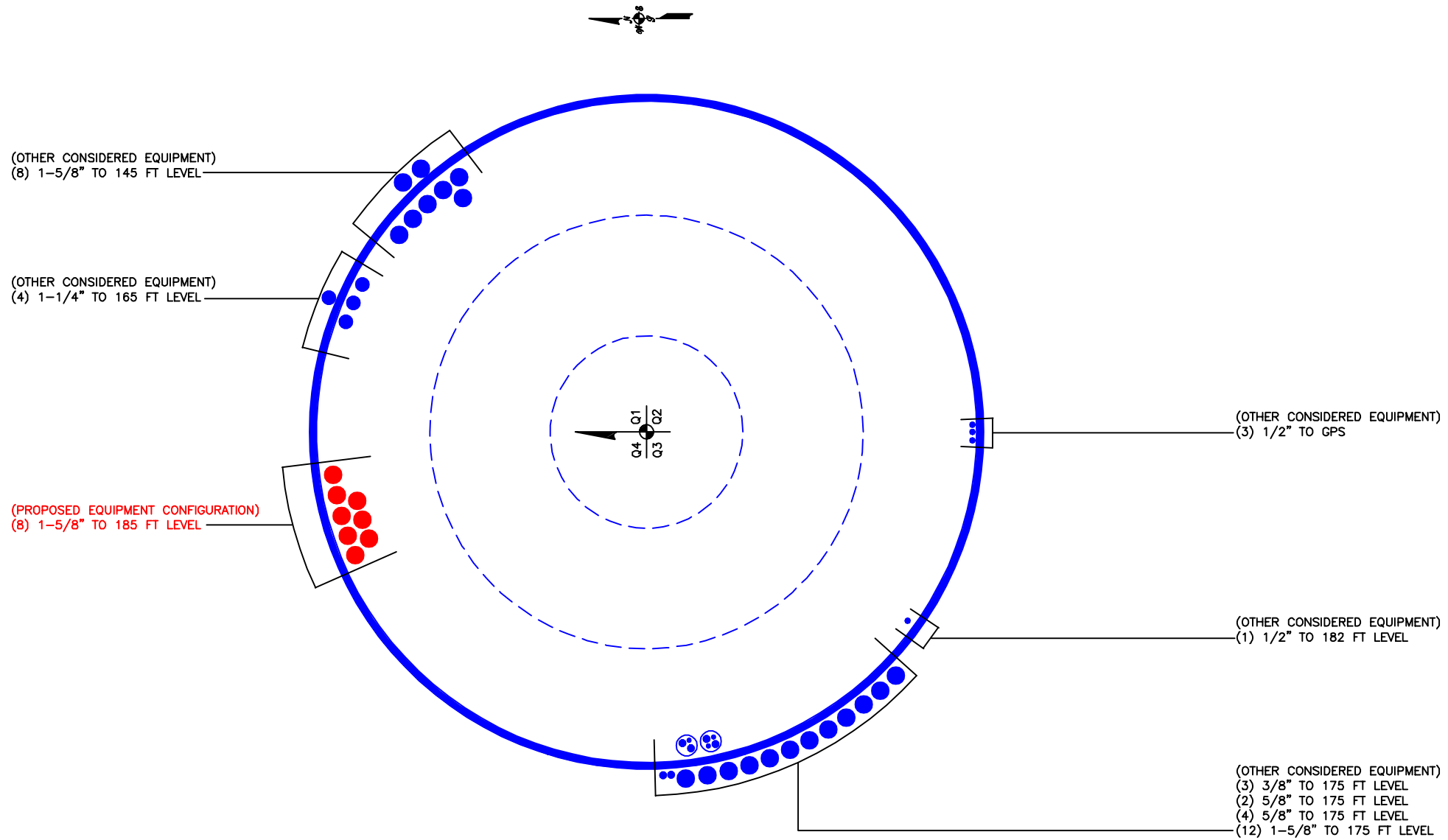
Section No.	Elevation ft	Ratio $\frac{P_u}{\phi P_n}$	Ratio $\frac{M_{ux}}{\phi M_{nx}}$	Ratio $\frac{M_{uy}}{\phi M_{ny}}$	Ratio $\frac{V_u}{\phi V_n}$	Ratio $\frac{T_u}{\phi T_n}$	Comb. Stress Ratio	Allow. Stress Ratio	Criteria

Section Capacity Table

Section No.	Elevation ft	Component Type	Size	Critical Element	P lb	ϕP_{allow} lb	% Capacity	Pass Fail
L1	185 - 149.46	Pole	TP36.06x29x0.25	1	-15060	1696191	39.7	Pass
L2	149.46 - 114.083	Pole	TP42.46x34.55x0.313	2	-25841	2498401	64.7	Pass
L3	114.083 - 76.666	Pole	TP49.15x40.695x0.375	3	-37033	3470701	72.5	Pass
L4	76.666 - 38.253	Pole	TP55.9x47.097x0.438	4	-51888	4605814	72.6	Pass
L5	38.253 - 0	Pole	TP62.5x53.56x0.5	5	-74439	6043852	70.8	Pass
							Summary	
						Pole (L4)	72.6	Pass
						RATING =	**72.6**	**Pass**

APPENDIX B

BASE LEVEL DRAWING


(OTHER CONSIDERED EQUIPMENT)
(8) 1–5/8" TO 145 FT LEVEL
(OTHER CONSIDERED EQUIPMENT)
(4) 1–1/4" TO 165 FT LEVEL
(PROPOSED EQUIPMENT CONFIGURATION)
(8) 1–5/8" TO 185 FT LEVEL
Q1
Q2
Q3
Q4
(OTHER CONSIDERED EQUIPMENT)
(3) 1/2" TO GPS
(OTHER CONSIDERED EQUIPMENT)
(1) 1/2" TO 182 FT LEVEL
(OTHER CONSIDERED EQUIPMENT)
(3) 3/8" TO 175 FT LEVEL
(2) 5/8" TO 175 FT LEVEL
(4) 5/8" TO 175 FT LEVEL
(12) 1–5/8" TO 175 FT LEVEL

APPENDIX C

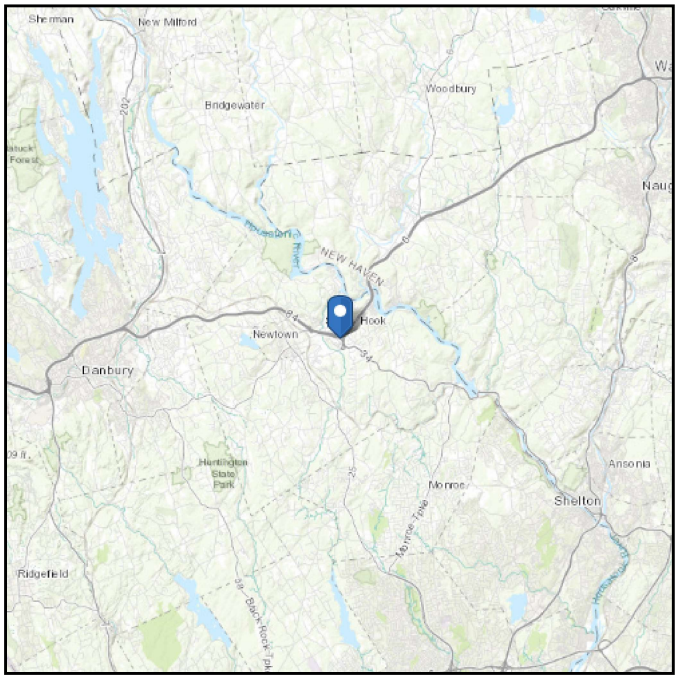
ADDITIONAL CALCULATIONS

ASCE 7 Hazards Report

Address:
No Address at This Location

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

Elevation: 349.26 ft (NAVD 88)
Latitude: 41.412647
Longitude: -73.270094



Wind

Results:

Wind Speed:	119 Vmph
10-year MRI	76 Vmph
25-year MRI	85 Vmph
50-year MRI	91 Vmph
100-year MRI	97 Vmph

Wind speed updated per local jurisdiction requirements

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 22 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.

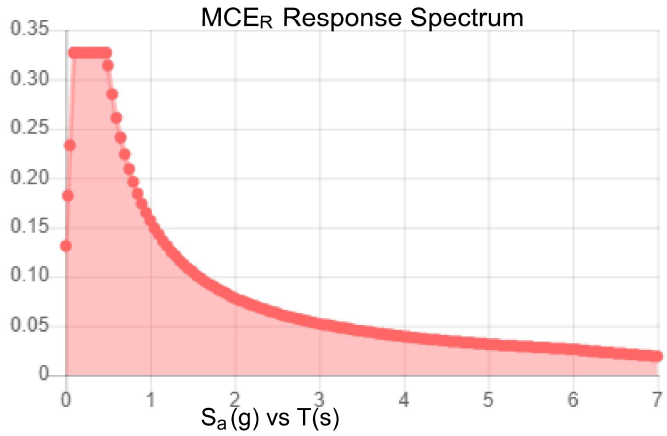
Seismic

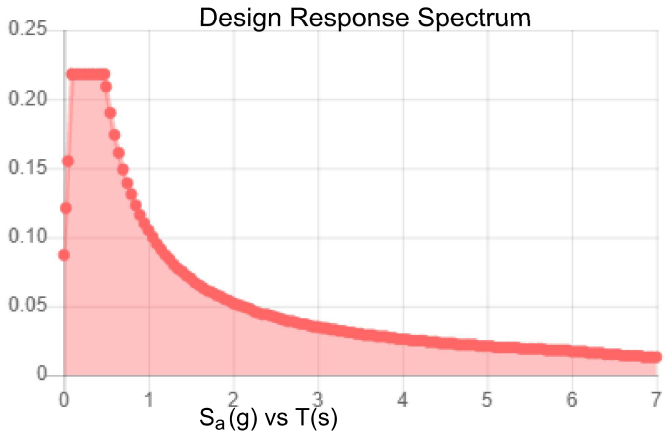
Site Soil Class: D - Stiff Soil

Results:

S_S :	0.204	S_{DS} :	0.218
S_1 :	0.065	S_{D1} :	0.105
F_a :	1.6	T_L :	6
F_v :	2.4	PGA :	0.109
S_{MS} :	0.327	PGA_M :	0.173
S_{M1} :	0.157	F_{PGA} :	1.582
		I_e :	1

Seismic Design Category B





Data Accessed: Tue Oct 22 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 22 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.

The ASCE 7 Hazard Tool is provided for your convenience, for informational purposes only, and is provided “as is” and without warranties of any kind. The location data included herein has been obtained from information developed, produced, and maintained by third party providers; or has been extrapolated from maps incorporated in the ASCE 7 standard. While ASCE has made every effort to use data obtained from reliable sources or methodologies, ASCE does not make any representations or warranties as to the accuracy, completeness, reliability, currency, or quality of any data provided herein. Any third-party links provided by this Tool should not be construed as an endorsement, affiliation, relationship, or sponsorship of such third-party content by or from ASCE.

ASCE does not intend, nor should anyone interpret, the results provided by this Tool to replace the sound judgment of a competent professional, having knowledge and experience in the appropriate field(s) of practice, nor to substitute for the standard of care required of such professionals in interpreting and applying the contents of this Tool or the ASCE 7 standard.

In using this Tool, you expressly assume all risks associated with your use. Under no circumstances shall ASCE or its officers, directors, employees, members, affiliates, or agents be liable to you or any other person for any direct, indirect, special, incidental, or consequential damages arising from or related to your use of, or reliance on, the Tool or any information obtained therein. To the fullest extent permitted by law, you agree to release and hold harmless ASCE from any and all liability of any nature arising out of or resulting from any use of data provided by the ASCE 7 Hazard Tool.

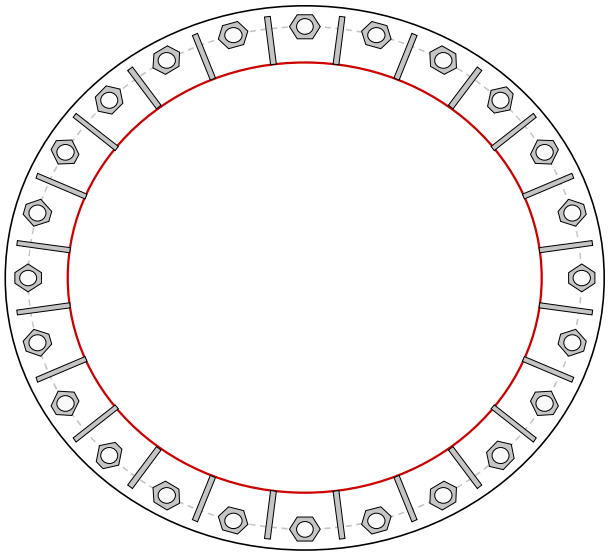
Monopole Base Plate Connection

Site Info	
BU #	806354
Site Name	BRG 123 943084
Order #	505497 Rev. 0

Analysis Considerations	
TIA-222 Revision	H
Grout Considered:	No
l_{ar} (in)	2.25

Applied Loads	
Moment (kip-ft)	6307.240
Axial Force (kips)	74.439
Shear Force (kips)	45.571

**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 73" BC

Base Plate Data

79" OD x 2.5" Plate (A871 Gr. 60; Fy=60 ksi, Fu=75 ksi)

Stiffener Data

(24) 15"H x 7"W x 0.75"T, Notch: 0.5"
plate: Fy= 50 ksi ; weld: Fy= 70 ksi
horiz. weld: 0.5" fillet
vert. weld: 0.375" fillet

Pole Data

62.5" 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 = 175.84	ϕPn_c = 243.75	**Stress Rating**
Vu = 1.9	ϕVn = 73.13	**68.8%**
Mu = n/a	ϕMn = n/a	**Pass**

Base Plate Summary		
Max Stress (ksi):	21.19	(Roark's Flexural)
Allowable Stress (ksi):	54	
Stress Rating:	**37.4%**	**Pass**

Stiffener Summary		
Horizontal Weld:	**77.0%**	**Pass**
Vertical Weld:	**53.2%**	**Pass**
Plate Flexure+Shear:	**26.2%**	**Pass**
Plate Tension+Shear:	**55.1%**	**Pass**
Plate Compression:	**71.9%**	**Pass**
Pole Summary		
Punching Shear:	**13.4%**	**Pass**

Pier and Pad Foundation

BU # :	806354
Site Name:	BRG 123 943084
App. Number:	505497 Rev. 0

TIA-222 Revision:	H
Tower Type:	Monopole

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

Superstructure Analysis Reactions		
Compression, P_{comp}:	74.469	kips
Base Shear, Vu_comp:	45.522	kips
Moment, M_u:	6307.24	ft-kips
Tower Height, **H**:	185	ft
BP Dist. Above Fdn, bp_{dist}:	4.5	in

Pier Properties		
Pier Shape:	Square	
Pier Diameter, **dpier**:	8	ft
Ext. Above Grade, **E**:	1	ft
Pier Rebar Size, **Sc**:	9	
Pier Rebar Quantity, **mc**:	48	
Pier Tie/Spiral Size, **St**:	4	
Pier Tie/Spiral Quantity, **mt**:	5	
Pier Reinforcement Type:	Tie	
Pier Clear Cover, cc_{pier}:	4.5	in

Pad Properties		
Depth, **D**:	6	ft
Pad Width, **W**:	28	ft
Pad Thickness, **T**:	3	ft
Pad Rebar Size (Top), Sp_{top}:	9	
Pad Top Rebar Quantity (Top), mp_{top}:	20	
Pad Rebar Size (Bottom), **Sp**:	9	
Pad Rebar Quantity (Bottom), **mp**:	45	
Pad Clear Cover, cc_{pad}:	3	in

Material Properties		
Rebar Grade, **Fy**:	60	ksi
Concrete Compressive Strength, **F'c**:	4	ksi
Dry Concrete Density, δc:	150	pcf

Soil Properties		
Total Soil Unit Weight, γ:	120	pcf
Ultimate Net Bearing, Qnet:	6.000	ksf
Cohesion, **Cu**:		ksf
Friction Angle, φ:	34	degrees
SPT Blow Count, N_{blows}:	26	
Base Friction, μ:	0.6	
Neglected Depth, **N**:	4.00	ft
Foundation Bearing on Rock?	No	
Groundwater Depth, **gw**:	10	ft

<--Toggle between Gross and Net

Foundation Analysis Checks	Capacity	Demand	Rating*	Check
Lateral (Sliding) (kips)	377.68	45.52	**11.5%**	**Pass**
Bearing Pressure (ksf)	5.04	3.29	**65.4%**	**Pass**
*Overturning (kip*ft)*	7903.22	6642.96	**84.1%**	**Pass**
*Pier Flexure (Comp.) (kip*ft)*	8823.56	6489.33	**70.0%**	**Pass**
Pier Compression (kip)	40734.72	120.55	**0.3%**	**Pass**
*Pad Flexure (kip*ft)*	6100.57	3058.91	**47.8%**	**Pass**
Pad Shear - 1-way (kips)	997.97	423.38	**40.4%**	**Pass**
Pad Shear - 2-way (Comp) (ksi)	0.190	0.000	**0.0%**	**Pass**
*Flexural 2-way (Comp) (kip*ft)*	5333.66	3893.60	**69.5%**	**Pass**

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

Soil Rating*:	**84.1%**
Structural Rating*:	**70.0%**

Version 3.3.0

Date: **October 16, 2019**

Darcy Tarr
Crown Castle
3530 Toringdon Way, Suite 300
Charlotte, NC 28277
(704)-405-6619

POD Group
1033 E Turkeyfoot Lake Rd. Suite 206
Akron, OH 44312
(330) 961-7432
jcheronis@podgrp.com

Subject:	**Mount Analysis Report**	
Carrier Designation:	**Verizon Wireless**	
	Carrier Site Number:	**NG1905**
	Carrier Site Name:	**NEWTOWN CT**
Crown Castle Designation:	**Crown Castle BU Number:**	**806354**
	Crown Castle Site Name:	**BRG 123 943084**
	Crown Castle JDE Job Number:	**591002**
	Crown Castle Order Number:	**505497 Rev 0**
Engineering Firm Designation:	**EOR Report Designation:**	**19-46639**
Site Data:	**21 Berkshire Road, Newton, Newton County, CT, 06482** **Latitude 41° 24' 45.53" Longitude -73° 16' 12.34"**	
Structure Information:	**Tower Height & Type:**	**185 ft Monopole**
	Mount Elevation:	**185 ft**
	Mount Type:	**10.83 ft Platform w/ Handrails**

Dear Darcy Tarr,

POD Group 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:

10.83 ft Platform w/ Handrails (Typical) **Sufficient**

This analysis has been performed in accordance with the 2018 Connecticut Building Code based upon an ultimate 3-second gust wind speed of 120 mph as required for use in the TIA-222-H Standard per Exception #5 of Section 1609.1.1. Exposure Category C with a maximum topographic factor, Kzt, of 1.000 and Risk Category II were used in this analysis.

Mount structural analysis prepared by: Logan Traphagen

10/16/2019

Respectfully submitted by:

Jason Cheronis, P.E.
Connecticut PE #: 0032793

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1) INTRODUCTION

This mount is an existing 10.83 ft Platform with handrails. This mount is installed at the 185 ft elevation on 185 ft monopole.

2) ANALYSIS CRITERIA

Building Code:	2015 IBC
TIA-222 Revision:	TIA-222-H
Risk Category:	II
Ultimate Wind Speed:	120 mph
Exposure Category:	C
Topographic Factor at Base:	1.000
Topographic Factor at Mount:	1.000
Ice Thickness:	1 in
Wind Speed with Ice:	50 mph
Seismic S_s:	0.208
Seismic S_1:	0.066
Live Loading Wind Speed:	30 mph
Man Live Load at Mid/End-Points:	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	Note
185	188	6	Decibel	DB846F65ZAXY	10.83 ft Platform w/ Handrails	-
		6	Quintel Technology	QS8658-5		
		3	Samsung	CBRS		
		6	Commscope	CBC78T-DS-43		
		2	Raycap	RRFDC-3315-PF-48		
		3	Samsung	20W CBRS		
		3	Samsung	RFV01U-D1A		
		3	Samsung	RFV01U-D2A		

3) ANALYSIS PROCEDURE

Table 2 - Documents Provided

Document	Remarks	Reference	Source
Crown Application	-	Crown Castle App ID: 505497 Rev 0 Dated: 10/07/2019	Crown
Tower Drawings	-	Engineer Endeavors, Inc Drawings No: K10498 Dated:1/20/1998	Crown
Mount Modification Analysis	-	Power of Design Group, LLC Job #: 18-29816 Dated: 3/27/2019	Power of Design Group, LLC
Levels Drawings	-	Crown Castle Sheet #: A1-185 Dated: 10/07/2019	Crown

3.1) Analysis Method

RISA3D (version 17.0), a commercially available analysis software package, was used to create a three-dimensional model of the mount and calculate member stresses for various loading cases. Selected output from the analysis is included in the Appendices.

This analysis was performed in accordance with Crown Castle's ENG-SOW-10208 Tower Mount Analysis (Revision B). In addition, this analysis is in accordance with Verizon's NSTD-445 Antenna Mounting System Classification Standard.

3.2) Assumptions

1) The antenna mounting system was properly fabricated, installed and maintained in good condition in accordance with its original design and manufacturer's specifications.
2) The configuration of antennas, mounts, and other appurtenances are as specified in Table 1 and the referenced drawings.
3) 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.
4) The weight of the mount was increased 10% in the analysis to account for connections, coax, and jumpers.
5) Member sizes have been assumed from photos of the site and past experience with similar mounting systems. If the sizes assumed in this report differ from the actual member sizes, EOR shall be contacted immediately and the results of the analysis shall be considered null and void.
6) Modifications Designed by Power of Design Group, LLC assumed to be properly installed
7) Steel grades have been assumed as follows, unless noted otherwise:
    a. Channel, Solid Round, Angle, Plate — ASTM A36 (GR 36)
    b. HSS (Rectangular) — ASTM 500 (GR B-46)
    c. Pipe — ASTM A53 (GR 35)
    d. Connection Bolts — ASTM A325

If any of these assumptions are not valid or have been made in error, this analysis may be affected, and EOR should be allowed to review any new information to determine its effect on the structural integrity of the mount.

4) ANALYSIS RESULTS

Table 3 - Mount Component Stresses vs. Capacity (10.83 ft Platform w/ Handrails, All Sectors)

Notes	Component	Critical Member	Centerline (ft)	% Capacity	Pass / Fail
	Face	FACE3	185	100.0	Pass
	Corner	CORNER	185	47.9	Pass
	Mount Pipe	MP GAMMA5	185	42.7	Pass
	Support	SUPPORT1	185	37.9	Pass
	Ladder	LADDER2	185	25.0	Pass
	Mount Pipe	MP GAMMA5	185	42.7	Pass
	Standoff	Standoff3	185	11.4	Pass

Structure Rating (max from all components) =	100.0%

4.1) Recommendations

The mounting system was found to be adequate to support the proposed loading and will not require modifications.

Table 4 – Verizon Mount Classification

Notes	Classification	% Capacity
1,2,3	M700R1750-4(0)	103.9
1,2,3	M700R1750-4(6)	103.8
1,2,3	M700R1700-4(12)	103.5

Notes:

1) Classification is based upon analysis design criteria as specified above.
2) Classification is based upon equal distribution of loads across the face.
3) This analysis is certifying the mount for the specified loads in the loading tables and the rating the mount at the specified load classification. Any variation from the loading scenarios/classifications specified shall be verified adequate through a new structural analysis and is beyond the scope of this report.

5) DISCLAIMER OF WARRANTIES

Power of Design has not performed a site visit to the structure to verify the member sizes or antenna/coax loading unless noted otherwise. If the existing conditions are not as represented in this report, we should be contacted immediately to evaluate the significance of the discrepancy. This is not a condition assessment of the structure or foundation. This report does not replace a full structure inspection. The structure, foundations, and mounting systems are assumed to have been properly fabricated, erected, maintained, in good condition, twist free, and plumb.

The engineering services rendered by POD in connection with this Structural Analysis are limited to a computer analysis of the structure and theoretical capacity of its main structural members. No allowance was made for any damaged, bent, missing, loose, or rusted members (above and below ground). No allowance was made for loose bolts or cracked welds.

POD does not analyze the fabrication of the structure (including welding). It is not possible to have all the very detailed information needed to perform a thorough analysis of every structural sub-component and connection of an existing structure. POD provides a limited scope of service in that we cannot verify the adequacy of every weld, plate connection detail, etc. The purpose of this report is to assess the feasibility of adding appurtenances usually accompanied by transmission lines to the structure.

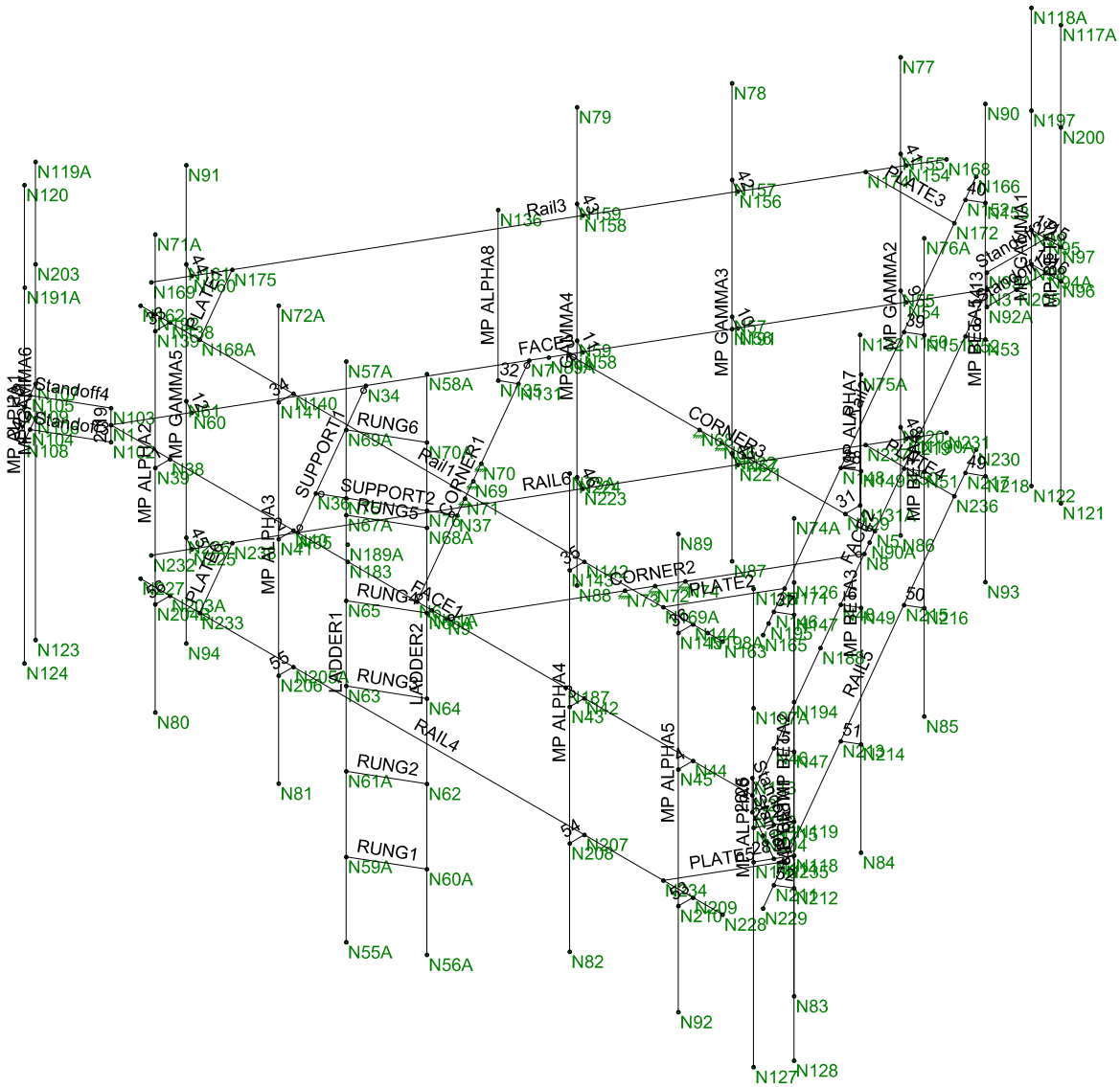
It is the owner's responsibility to determine the amount of ice accumulation in excess of the code specified amount, if any, that should be considered in the structural analysis.

The attached sketches are a schematic representation of the analyzed structure. If any material is fabricated from these sketches, the contractor shall be responsible for field verifying the existing conditions, proper fit, and clearance in the field. Any mentions of structural modifications are reasonable estimates and should not be used as a precise construction document. Precise modification drawings are obtainable from POD, but are beyond the scope of this report.

POD makes no warranties, expressed and/or implied, in connection with this report and disclaims any liability arising from material, fabrication, and erection of this structure. POD will not be responsible whatsoever, for or on account of, consequential or incidental damages sustained by any person, firm, or organization as a result of any data or conclusions contained in this report. The maximum liability of POD pursuant to this report will be limited to the total fee received for preparation of this report.

APPENDIX A

Wire Frame and Rendered Models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MP GAMMA4
MP GAMMA3
MP GAMMA2
MP GAMMA5
MP ALPHA2
MP ALPHA3
MP ALPHA4
MP ALPHA5
MP ALPHA7
MP BETA3
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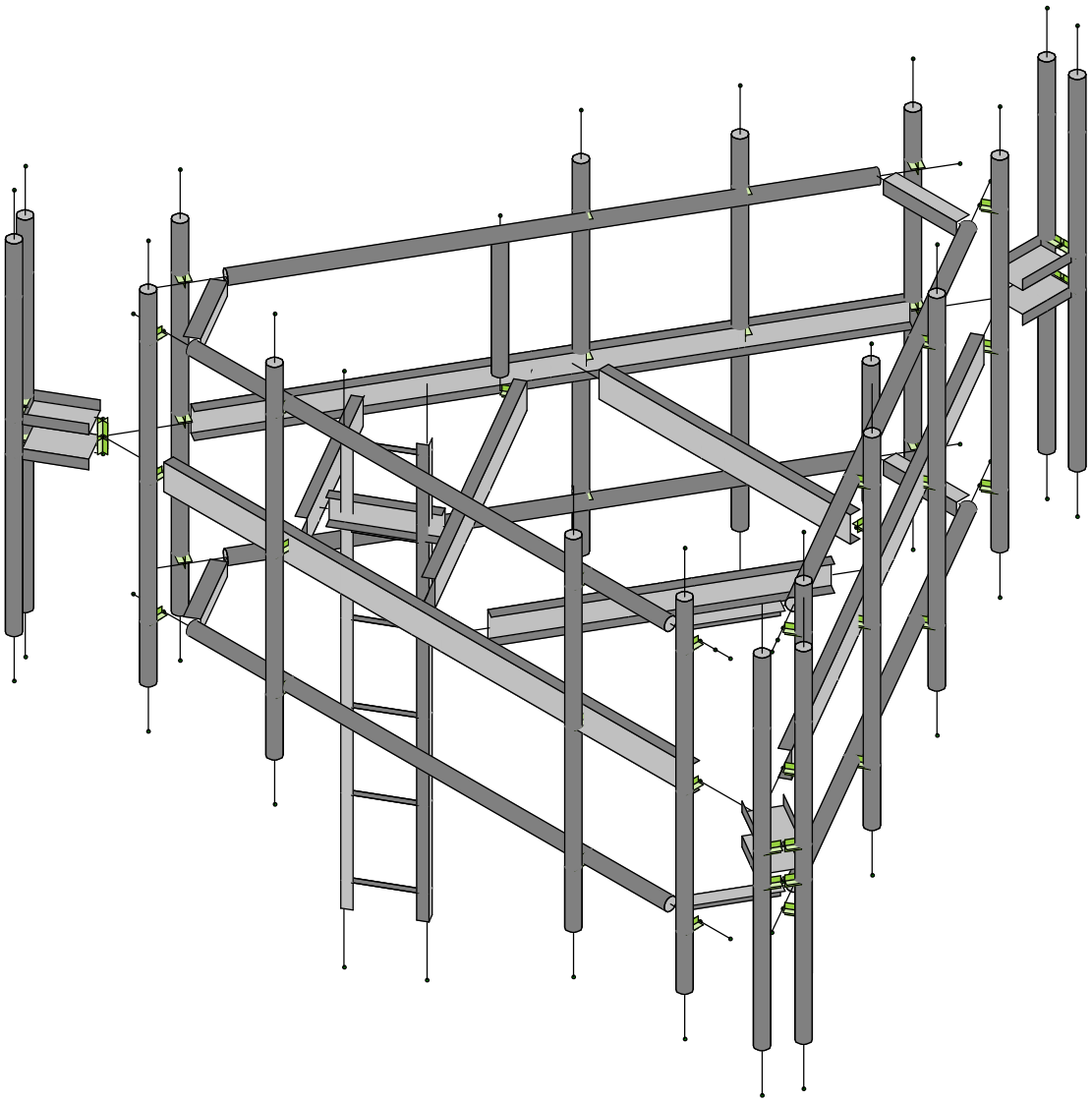
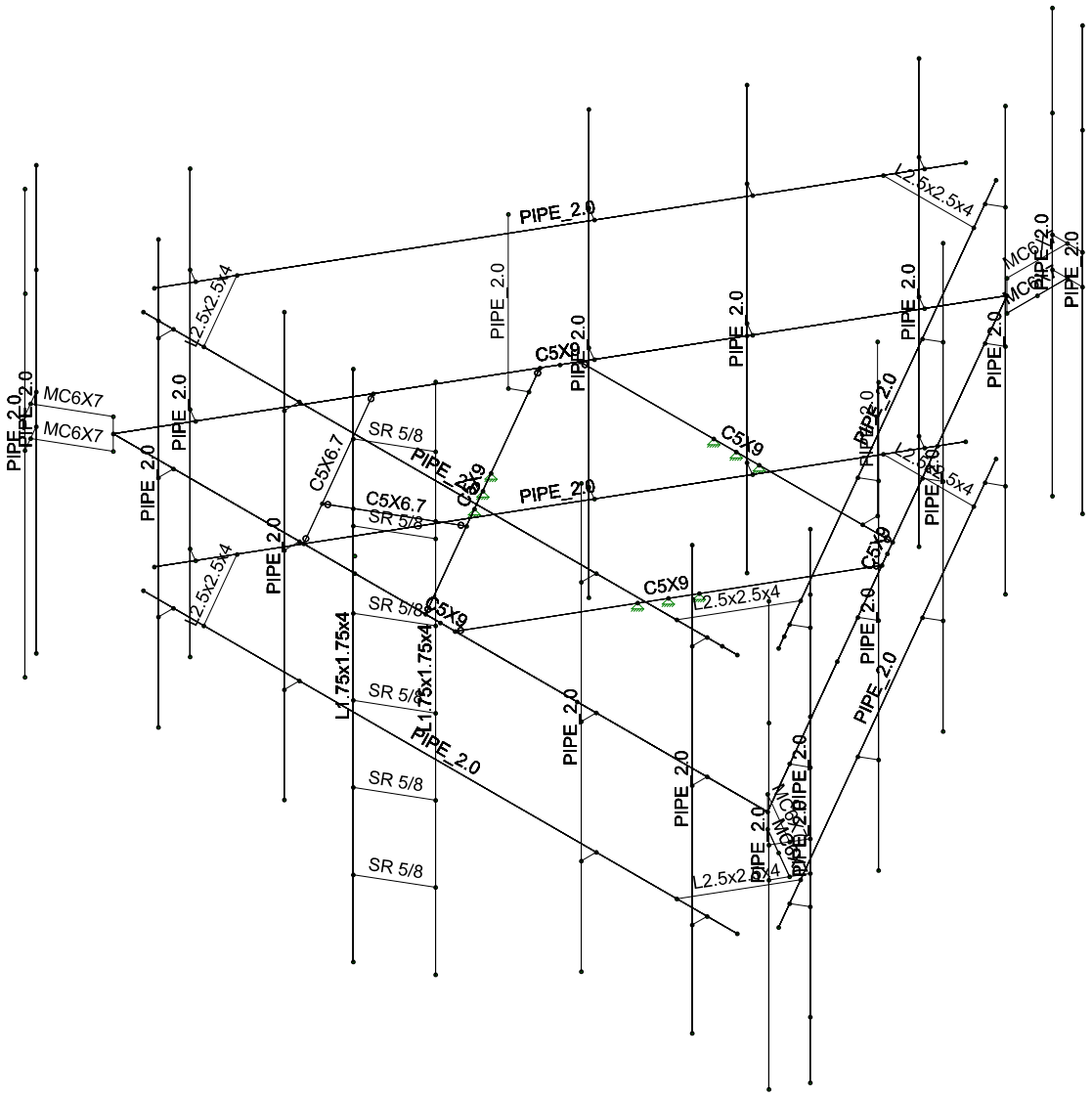


POD	806354	
LT		Oct 16, 2019 at 10:28 AM
19-46639		10.83' Low Profile Platform (Chann...



POD		
LT	806354	Oct 16, 2019 at 10:28 AM
19-46639		10.83' Low Profile Platform (Chann...

APPENDIX B

Software Input Calculations

POD Job #	**19-46639**
Site Number	**806354**
Site Name	**BTG 123 943084**

General Site Information

Mount Type	SFP	Risk Category	II
V (Wind Speed)	120	I(ice)	1
Zs	2		
ti	1		
Vi	50		
Kzt	1		
Exposure	C		
zg	900		
α	9.5		
Kmin	0.85		
G_H	1		
Ke	1.00		
K_D	0.95		

Appurtenance Information

				Alpha				Beta				Gamma			
Model	Shielded	% Shielded	Centerline	# on MP 1	# on MP 2	# on MP 3	# on MP 4	# on MP 1	# on MP 2	# on MP 3	# on MP 4	# on MP 1	# on MP 2	# on MP 3	# on MP 4
DB846F65ZAXY			188	1				1				1			
QS8658-5			188		1	1			1	1			1	1	
CBRS			188				1				1				1
CBC78T-DS-43	Front	100	188	1				1		1		1		1	
RRFDC-3315-PF-48			188			1								1	
20W CBRS			188				1				1				1
RFV01U-D1A	Front	60	188								1		1		
RFV01U-D2A	Front	60	188				1		1			1			

Mount Information

Elevation (ft)	185	Grating Thickness (in)	1
K_z	1.44	Grating Ice Weight (k/ft^2)	0.015
Kiz	1.19		
tiz	1.19		

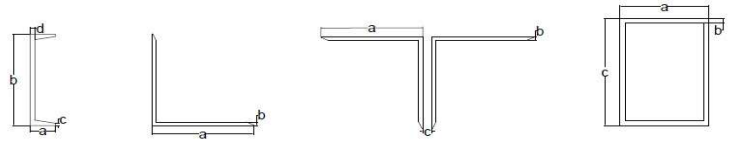
	Length (ft)	Width (in)	Centerline
Mount Pipes	7	2.375	188

Round Members

Member	Length (ft)	Width (in)	Frame Member	# of Members
Ladder Rungs	1	0.625	No	6

Flat Members

Member	Length (ft)	Width (in)	Shape	A	B	C	D	Frame Member	# of Members
Face	10.83	5	Channel	1.75	5	0.32	0.19	Yes	2
Face	10.83	5	Channel	1.75	5	0.32	0.19	No	1
Corner	5.174	5	Channel	1.75	5	0.32	0.19	No	3
Support	3.15	5	Channel	1.75	5	0.32	0.19	No	2
Ladder	8.5	1.75	Angle	1.75	0.25		0.25	No	2
Standoff	1	2	Channel	2	6	0.291	0.179	No	6



POD Job #	**19-46639**
Site Number	**806354**
Site Name	**BTG 123 943084**

General Site Information

Mount Type	SFP	Risk Category	II
V (Wind Speed)	120	I(ice)	1
Zs	2		
ti	1		
Vi	50		
Kzt	1		
Exposure	C		
zg	900		
α	9.5		
Kmin	0.85		
G_H	1		
Ke	1.00		
K_D	0.95		

Appurtenance Information

				Alpha				Beta				Gamma			
Model	Shielded	% Shielded	Centerline	# on MP 5	# on MP 6	# on MP 7	# on MP 8	# on MP 5	# on MP 6	# on MP 7	# on MP 8	# on MP 5	# on MP 6	# on MP 7	# on MP 8
DB846F65ZAXY			188	1				1				1			
CBC78T-DS-43	Front	100	188	1											
RFV01U-D1A			188									1			

Mount Information

Elevation (ft)	185	Grating Thickness (in)	1
K_z	1.44	Grating Ice Weight (k/ft^2)	0.015
Kiz	1.19		
tiz	1.19		

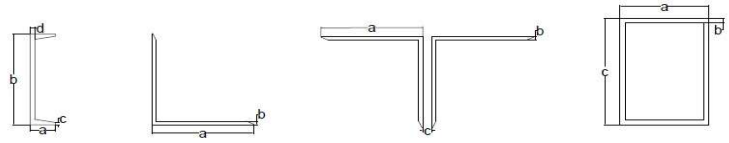
	Length (ft)	Width (in)	Centerline
Mount Pipes	7	2.375	188

Round Members

Member	Length (ft)	Width (in)	Frame Member	# of Members
Ladder Rungs	1	0.625	No	6

Flat Members

Member	Length (ft)	Width (in)	Shape	A	B	C	D	Frame Member	# of Members
Face	10.83	5	Channel	1.75	5	0.32	0.19	Yes	2
Face	10.83	5	Channel	1.75	5	0.32	0.19	No	1
Corner	5.174	5	Channel	1.75	5	0.32	0.19	No	3
Support	3.15	5	Channel	1.75	5	0.32	0.19	No	2
Ladder	8.5	1.75	Angle	1.75	0.25		0.25	No	2
Standoff	1	2	Channel	2	6	0.291	0.179	No	6



APPENDIX C

Software Analysis Output

Hot Rolled Steel Design Parameters

	Label	Shape	Length[ft]	Lbyy[ft]	Lbzz[ft]	Lcomp top[ft]	Lcomp bot[ft]	L-torqu...	Kyy	Kzz	Cb	Function
1	Standoff6	MC6X7	1			Lbyy						Lateral
2	Standoff5	MC6X7	1			Lbyy						Lateral
3	Standoff4	MC6X7	1			Lbyy						Lateral
4	Standoff3	MC6X7	1			Lbyy						Lateral
5	Standoff2	MC6X7	1			Lbyy						Lateral
6	Standoff1	MC6X7	1			Lbyy						Lateral
7	SUPPORT2	C5X6.7	1.75			Lbyy						Lateral
8	SUPPORT1	C5X6.7	3.153			Lbyy						Lateral
9	Rail3	PIPE_2.0	9.833			Lbyy						Lateral
10	Rail2	PIPE_2.0	9.833			Lbyy						Lateral
11	Rail1	PIPE_2.0	9.833			Lbyy						Lateral
12	RUNG6	SR 5/8	1			Lbyy						Lateral
13	RUNG5	SR 5/8	1			Lbyy						Lateral
14	RUNG4	SR 5/8	1			Lbyy						Lateral
15	RUNG3	SR 5/8	1			Lbyy						Lateral
16	RUNG2	SR 5/8	1			Lbyy						Lateral
17	RUNG1	SR 5/8	1			Lbyy						Lateral
18	PLATE3	L2.5x2.5x4	1.5			Lbyy						Lateral
19	PLATE2	L2.5x2.5x4	1.5			Lbyy						Lateral
20	PLATE1	L2.5x2.5x4	1.5			Lbyy						Lateral
21	MP GAMMA6	PIPE_2.0	7			Lbyy						Lateral
22	MP GAMMA5	PIPE_2.0	7			Lbyy						Lateral
23	MP GAMMA4	PIPE_2.0	7			Lbyy						Lateral
24	MP GAMMA3	PIPE_2.0	7			Lbyy						Lateral
25	MP GAMMA2	PIPE_2.0	7			Lbyy						Lateral
26	MP GAMMA1	PIPE_2.0	7			Lbyy						Lateral
27	MP BETA6	PIPE_2.0	7			Lbyy						Lateral
28	MP BETA5	PIPE_2.0	7			Lbyy						Lateral
29	MP BETA4	PIPE_2.0	7			Lbyy						Lateral
30	MP BETA3	PIPE_2.0	7			Lbyy						Lateral
31	MP BETA2	PIPE_2.0	7			Lbyy						Lateral
32	MP BETA1	PIPE_2.0	7			Lbyy						Lateral
33	MP ALPHA8	PIPE_2.0	2.5			Lbyy						Lateral
34	MP ALPHA7	PIPE_2.0	2.5			Lbyy						Lateral
35	MP ALPHA6	PIPE_2.0	7			Lbyy						Lateral
36	MP ALPHA5	PIPE_2.0	7			Lbyy						Lateral
37	MP ALPHA4	PIPE_2.0	7			Lbyy						Lateral
38	MP ALPHA3	PIPE_2.0	7			Lbyy						Lateral
39	MP ALPHA2	PIPE_2.0	7			Lbyy						Lateral
40	MP ALPHA1	PIPE_2.0	7			Lbyy						Lateral
41	LADDER2	L1.75x1.75x4	8.5			Lbyy						Lateral
42	LADDER1	L1.75x1.75x4	8.5			Lbyy						Lateral
43	FACE3	C5X9	10.833	5.417	5.417	Lbyy						Lateral
44	FACE2	C5X9	10.833	5.417	5.417	Lbyy						Lateral
45	FACE1	C5X9	10.833	5.417	5.417	Lbyy						Lateral
46	CORNER3	C5X9	5.174			Lbyy						Lateral
47	CORNER2	C5X9	5.174			Lbyy						Lateral
48	CORNER1	C5X9	5.174			Lbyy						Lateral
49	RAIL6	PIPE_2.0	9.833			Lbyy						Lateral
50	RAIL5	PIPE_2.0	9.833			Lbyy						Lateral
51	RAIL4	PIPE_2.0	9.833			Lbyy						Lateral

Hot Rolled Steel Design Parameters (Continued)

	Label	Shape	Length[ft]	Lbyy[ft]	Lbzz[ft]	Lcomp top[ft]	Lcomp bot[ft]	L-torqu...	Kyy	Kzz	Cb	Function
52	PLATE4	L2.5x2.5x4	1.5			Lbyy						Lateral
53	PLATE5	L2.5x2.5x4	1.5			Lbyy						Lateral
54	PLATE6	L2.5x2.5x4	1.5			Lbyy						Lateral

Member Primary Data

	Label	I Joint	J Joint	K Jo..	Rotat..	Section/Shape	Type	Design List	Material	Design Rules
1	Standoff6	N113	N115			MC6X7	Beam	Channel	A36 Gr.36	Typical
2	Standoff5	N112	N114		180	MC6X7	Beam	Channel	A36 Gr.36	Typical
3	Standoff4	N103	N105		180	MC6X7	Beam	Channel	A36 Gr.36	Typical
4	Standoff3	N102	N104			MC6X7	Beam	Channel	A36 Gr.36	Typical
5	Standoff2	N93A	N95			MC6X7	Beam	Channel	A36 Gr.36	Typical
6	Standoff1	N92A	N94A		180	MC6X7	Beam	Channel	A36 Gr.36	Typical
7	SUPPORT2	N36	N37		90	C5X6.7	Beam	Channel	A36 Gr.36	Typical
8	SUPPORT1	N34	N35		90	C5X6.7	Beam	Channel	A36 Gr.36	Typical
9	Rail3	N168	N169			PIPE_2.0	Beam	Pipe	A53 Gr.B	Typical
10	Rail2	N165	N166			PIPE_2.0	Beam	Pipe	A53 Gr.B	Typical
11	Rail1	N162	N163			PIPE_2.0	Beam	Pipe	A53 Gr.B	Typical
12	RUNG6	N69A	N70A			SR 5/8	Beam	BAR	A36 Gr.36	Typical
13	RUNG5	N67A	N68A			SR 5/8	Beam	BAR	A36 Gr.36	Typical
14	RUNG4	N65	N66A			SR 5/8	Beam	BAR	A36 Gr.36	Typical
15	RUNG3	N63	N64			SR 5/8	Beam	BAR	A36 Gr.36	Typical
16	RUNG2	N61A	N62			SR 5/8	Beam	BAR	A36 Gr.36	Typical
17	RUNG1	N59A	N60A			SR 5/8	Beam	BAR	A36 Gr.36	Typical
18	PLATE3	N172	N174			L2.5x2.5x4	Beam	RECT	A36 Gr.36	Typical
19	PLATE2	N169A	N171		180	L2.5x2.5x4	Beam	RECT	A36 Gr.36	Typical
20	PLATE1	N168A	N175		90	L2.5x2.5x4	Beam	RECT	A36 Gr.36	Typical
21	MP GAMMA6	N123	N119A			PIPE_2.0	Beam	Pipe	A53 Gr.B	Typical
22	MP GAMMA5	N94	N91			PIPE_2.0	Beam	Pipe	A53 Gr.B	Typical
23	MP GAMMA4	N88	N79			PIPE_2.0	Beam	Pipe	A53 Gr.B	Typical
24	MP GAMMA3	N87	N78			PIPE_2.0	Beam	Pipe	A53 Gr.B	Typical
25	MP GAMMA2	N86	N77			PIPE_2.0	Beam	Pipe	A53 Gr.B	Typical
26	MP GAMMA1	N122	N118A			PIPE_2.0	Beam	Pipe	A53 Gr.B	Typical
27	MP BETA6	N121	N117A			PIPE_2.0	Beam	Pipe	A53 Gr.B	Typical
28	MP BETA5	N93	N90			PIPE_2.0	Beam	Pipe	A53 Gr.B	Typical
29	MP BETA4	N85	N76A			PIPE_2.0	Beam	Pipe	A53 Gr.B	Typical
30	MP BETA3	N84	N75A			PIPE_2.0	Beam	Pipe	A53 Gr.B	Typical
31	MP BETA2	N83	N74A			PIPE_2.0	Beam	Pipe	A53 Gr.B	Typical
32	MP BETA1	N128	N126			PIPE_2.0	Beam	Pipe	A53 Gr.B	Typical
33	MP ALPHA8	N135	N136			PIPE_2.0	Beam	Pipe	A53 Gr.B	Typical
34	MP ALPHA7	N131A	N132			PIPE_2.0	Beam	Pipe	A53 Gr.B	Typical
35	MP ALPHA6	N127	N125			PIPE_2.0	Beam	Pipe	A53 Gr.B	Typical
36	MP ALPHA5	N92	N89			PIPE_2.0	Beam	Pipe	A53 Gr.B	Typical
37	MP ALPHA4	N82	N73A			PIPE_2.0	Beam	Pipe	A53 Gr.B	Typical
38	MP ALPHA3	N81	N72A			PIPE_2.0	Beam	Pipe	A53 Gr.B	Typical
39	MP ALPHA2	N80	N71A			PIPE_2.0	Beam	Pipe	A53 Gr.B	Typical
40	MP ALPHA1	N124	N120			PIPE_2.0	Beam	Pipe	A53 Gr.B	Typical
41	LADDER2	N56A	N58A		30	L1.75x1.75x4	Beam	Single Angle	A36 Gr.36	Typical
42	LADDER1	N55A	N57A		300	L1.75x1.75x4	Beam	Single Angle	A36 Gr.36	Typical
43	FACE3	N1	N3		90	C5X9	Beam	Channel	A36 Gr.36	Typical
44	FACE2	N2	N3		90	C5X9	Beam	Channel	A36 Gr.36	Typical

Member Primary Data (Continued)

	Label	I Joint	J Joint	K Jo..	Rotat..	Section/Shape	Type	Design List	Material	Design Rules
45	FACE1	N1	N2		270	C5X9	Beam	Channel	A36 Gr.36	Typical
46	CORNER3	N4	N5		270	C5X9	Beam	Channel	A36 Gr.36	Typical
47	CORNER2	N8	N9		90	C5X9	Beam	Channel	A36 Gr.36	Typical
48	CORNER1	N6	N7		90	C5X9	Beam	Channel	A36 Gr.36	Typical
49	44	N160	N161			RIGID	None	None	RIGID	Typical
50	43	N158	N159			RIGID	None	None	RIGID	Typical
51	42	N156	N157			RIGID	None	None	RIGID	Typical
52	41	N154	N155			RIGID	None	None	RIGID	Typical
53	40	N152	N153			RIGID	None	None	RIGID	Typical
54	39	N150	N151			RIGID	None	None	RIGID	Typical
55	38	N148	N149			RIGID	None	None	RIGID	Typical
56	37	N146	N147			RIGID	None	None	RIGID	Typical
57	36	N144	N145			RIGID	None	None	RIGID	Typical
58	35	N142	N143			RIGID	None	None	RIGID	Typical
59	34	N140	N141			RIGID	None	None	RIGID	Typical
60	33	N138	N139			RIGID	None	None	RIGID	Typical
61	32	N131	N135			RIGID	None	None	RIGID	Typical
62	31	N129	N131A			RIGID	None	None	RIGID	Typical
63	30	N114	N118			RIGID	None	None	RIGID	Typical
64	29	N115	N119			RIGID	None	None	RIGID	Typical
65	28	N114	N116			RIGID	None	None	RIGID	Typical
66	27	N115	N117			RIGID	None	None	RIGID	Typical
67	26	N2	N112			RIGID	None	None	RIGID	Typical
68	25	N2	N113			RIGID	None	None	RIGID	Typical
69	24	N104	N108			RIGID	None	None	RIGID	Typical
70	23	N105	N109			RIGID	None	None	RIGID	Typical
71	22	N104	N106			RIGID	None	None	RIGID	Typical
72	21	N105	N107			RIGID	None	None	RIGID	Typical
73	20	N1	N102			RIGID	None	None	RIGID	Typical
74	19	N1	N103			RIGID	None	None	RIGID	Typical
75	18	N94A	N98			RIGID	None	None	RIGID	Typical
76	17	N95	N99			RIGID	None	None	RIGID	Typical
77	16	N94A	N96			RIGID	None	None	RIGID	Typical
78	15	N95	N97			RIGID	None	None	RIGID	Typical
79	14	N3	N92A			RIGID	None	None	RIGID	Typical
80	13	N3	N93A			RIGID	None	None	RIGID	Typical
81	12	N60	N61			RIGID	None	None	RIGID	Typical
82	11	N58	N59			RIGID	None	None	RIGID	Typical
83	10	N56	N57			RIGID	None	None	RIGID	Typical
84	9	N54	N55			RIGID	None	None	RIGID	Typical
85	8	N52	N53			RIGID	None	None	RIGID	Typical
86	7	N50	N51			RIGID	None	None	RIGID	Typical
87	6	N48	N49			RIGID	None	None	RIGID	Typical
88	5	N46	N47			RIGID	None	None	RIGID	Typical
89	4	N44	N45			RIGID	None	None	RIGID	Typical
90	3	N42	N43			RIGID	None	None	RIGID	Typical
91	2	N40	N41			RIGID	None	None	RIGID	Typical
92	1	N38	N39			RIGID	None	None	RIGID	Typical
93	RAIL6	N231	N232			PIPE 2.0	Beam	Pipe	A53 Gr.B	Typical
94	RAIL5	N229	N230			PIPE 2.0	Beam	Pipe	A53 Gr.B	Typical
95	RAIL4	N227	N228			PIPE 2.0	Beam	Pipe	A53 Gr.B	Typical
96	PLATE4	N236	N237			L2.5x2.5x4	Beam	Single Angle	A36 Gr.36	Typical

Member Primary Data (Continued)

	Label	I Joint	J Joint	K Jo..	Rotat..	Section/Shape	Type	Design List	Material	Design Rules
97	PLATE5	N234	N235		180	L2.5x2.5x4	Beam	Single Angle	A36 Gr.36	Typical
98	PLATE6	N233	N238		90	L2.5x2.5x4	Beam	Single Angle	A36 Gr.36	Typical
99	45	N225	N226			RIGID	None	None	RIGID	Typical
100	46	N223	N224			RIGID	None	None	RIGID	Typical
101	47	N221	N222			RIGID	None	None	RIGID	Typical
102	48	N219	N220			RIGID	None	None	RIGID	Typical
103	49	N217	N218			RIGID	None	None	RIGID	Typical
104	50	N215	N216			RIGID	None	None	RIGID	Typical
105	51	N213	N214			RIGID	None	None	RIGID	Typical
106	52	N211	N212			RIGID	None	None	RIGID	Typical
107	53	N209	N210			RIGID	None	None	RIGID	Typical
108	54	N207	N208			RIGID	None	None	RIGID	Typical
109	55	N205A	N206			RIGID	None	None	RIGID	Typical
110	56	N203A	N204B			RIGID	None	None	RIGID	Typical

Member Advanced Data

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physic..	Defl Ratio Op...	Analysis Offset[in]	Inactive	Seismi...
1	Standoff6						Yes				None
2	Standoff5						Yes				None
3	Standoff4						Yes	Default			None
4	Standoff3						Yes				None
5	Standoff2						Yes				None
6	Standoff1						Yes				None
7	SUPPORT2	BenPIN	BenPIN				Yes				None
8	SUPPORT1	BenPIN	BenPIN				Yes				None
9	Rail3						Yes				None
10	Rail2						Yes				None
11	Rail1						Yes				None
12	RUNG6						Yes				None
13	RUNG5						Yes				None
14	RUNG4						Yes				None
15	RUNG3						Yes				None
16	RUNG2						Yes				None
17	RUNG1						Yes				None
18	PLATE3						Yes				None
19	PLATE2						Yes				None
20	PLATE1						Yes	Default			None
21	MP GAMMA6						Yes				None
22	MP GAMMA5						Yes				None
23	MP GAMMA4						Yes				None
24	MP GAMMA3						Yes				None
25	MP GAMMA2						Yes				None
26	MP GAMMA1						Yes				None
27	MP BETA6						Yes				None
28	MP BETA5						Yes				None
29	MP BETA4						Yes				None
30	MP BETA3						Yes				None
31	MP BETA2						Yes				None
32	MP BETA1						Yes				None
33	MP ALPHA8						Yes				None

Member Advanced Data (Continued)

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physic...	Defl Ratio Op...	Analysis Offset[in]	Inactive	Seismi...
34	MP ALPHA7						Yes				None
35	MP ALPHA6						Yes				None
36	MP ALPHA5						Yes				None
37	MP ALPHA4						Yes				None
38	MP ALPHA3						Yes				None
39	MP ALPHA2						Yes				None
40	MP ALPHA1						Yes				None
41	LADDER2						Yes				None
42	LADDER1						Yes				None
43	FACE3						Yes				None
44	FACE2						Yes				None
45	FACE1						Yes				None
46	CORNER3	BenPIN	BenPIN				Yes				None
47	CORNER2	BenPIN	BenPIN				Yes				None
48	CORNER1	BenPIN	BenPIN				Yes				None
49	44						Yes	** NA **			None
50	43						Yes	** NA **			None
51	42						Yes	** NA **			None
52	41						Yes	** NA **			None
53	40						Yes	** NA **			None
54	39						Yes	** NA **			None
55	38						Yes	** NA **			None
56	37						Yes	** NA **			None
57	36						Yes	** NA **			None
58	35						Yes	** NA **			None
59	34						Yes	** NA **			None
60	33						Yes	** NA **			None
61	32						Yes	** NA **			None
62	31						Yes	** NA **			None
63	30						Yes	** NA **			None
64	29						Yes	** NA **			None
65	28						Yes	** NA **			None
66	27						Yes	** NA **			None
67	26						Yes	** NA **			None
68	25						Yes	** NA **			None
69	24						Yes	** NA **			None
70	23						Yes	** NA **			None
71	22						Yes	** NA **			None
72	21						Yes	** NA **			None
73	20						Yes	** NA **			None
74	19						Yes	** NA **			None
75	18						Yes	** NA **			None
76	17						Yes	** NA **			None
77	16						Yes	** NA **			None
78	15						Yes	** NA **			None
79	14						Yes	** NA **			None
80	13						Yes	** NA **			None
81	12						Yes	** NA **			None
82	11						Yes	** NA **			None
83	10						Yes	** NA **			None
84	9						Yes	** NA **			None
85	8						Yes	** NA **			None

Member Advanced Data (Continued)

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physic...	Defl Ratio Op...	Analysis Offset[in]	Inactive	Seismi...
86	7						Yes	** NA **			None
87	6						Yes	** NA **			None
88	5						Yes	** NA **			None
89	4						Yes	** NA **			None
90	3						Yes	** NA **			None
91	2						Yes	** NA **			None
92	1						Yes	** NA **			None
93	RAIL6						Yes				None
94	RAIL5						Yes				None
95	RAIL4						Yes				None
96	PLATE4						Yes				None
97	PLATE5						Yes				None
98	PLATE6						Yes	Default			None
99	45						Yes	** NA **			None
100	46						Yes	** NA **			None
101	47						Yes	** NA **			None
102	48						Yes	** NA **			None
103	49						Yes	** NA **			None
104	50						Yes	** NA **			None
105	51						Yes	** NA **			None
106	52						Yes	** NA **			None
107	53						Yes	** NA **			None
108	54						Yes	** NA **			None
109	55						Yes	** NA **			None
110	56						Yes	** NA **			None

Hot Rolled Steel Properties

	Label	E [ksi]	G [ksi]	Nu	Therm (/1...	Density[k/f...	Yield[ksi]	Ry	Fu[ksi]	Rt
1	A992	29000	11154	.3	.65	.49	50	1.1	65	1.1
2	A36 Gr.36	29000	11154	.3	.65	.49	36	1.5	58	1.2
3	A572 Gr.50	29000	11154	.3	.65	.49	50	1.1	65	1.1
4	A500 Gr.B RND	29000	11154	.3	.65	.527	42	1.4	58	1.3
5	A500 Gr.B Rect	29000	11154	.3	.65	.527	46	1.4	58	1.3
6	A53 Gr.B	29000	11154	.3	.65	.49	35	1.6	60	1.2
7	A1085	29000	11154	.3	.65	.49	50	1.4	65	1.3

Member Point Loads (BLC 1 : Wind Load (0))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA1	Y	-.356	3.5
2	MP ALPHA2	Y	-.58	3.5
3	MP ALPHA3	Y	-.772	3.5
4	MP ALPHA4	Y	-.128	3.5
5	MP BETA1	Y	-.332	3.5
6	MP BETA2	Y	-.557	3.5
7	MP BETA3	Y	-.519	3.5
8	MP BETA4	Y	-.107	3.5
9	MP GAMMA1	Y	-.38	3.5
10	MP GAMMA2	Y	-.567	3.5
11	MP GAMMA3	Y	-.663	3.5

Member Point Loads (BLC 1 : Wind Load (0)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
12	MP GAMMA4	Y	-.05	3.5
13	MP ALPHA5	Y	-.356	3.5
14	MP BETA5	Y	-.322	3.5
15	MP GAMMA5	Y	-.394	3.5

Member Point Loads (BLC 2 : Dead Load)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA1	Z	-.032	3.5
2	MP ALPHA2	Z	-.098	3.5
3	MP ALPHA3	Z	-.13	3.5
4	MP ALPHA4	Z	-.101	3.5
5	MP BETA1	Z	-.032	3.5
6	MP BETA2	Z	-.168	3.5
7	MP BETA3	Z	-.109	3.5
8	MP BETA4	Z	-.115	3.5
9	MP GAMMA1	Z	-.102	3.5
10	MP GAMMA2	Z	-.182	3.5
11	MP GAMMA3	Z	-.141	3.5
12	MP GAMMA4	Z	-.031	3.5
13	MP ALPHA5	Z	-.032	3.5
14	MP BETA5	Z	-.021	3.5
15	MP GAMMA5	Z	-.105	3.5

Member Point Loads (BLC 3 : Live Load)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	FACE1	Z	-.5	0

Member Point Loads (BLC 4 : Ice Wind Load (0))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA1	Y	-.044	3.5
2	MP ALPHA2	Y	-.069	3.5
3	MP ALPHA3	Y	-.093	3.5
4	MP ALPHA4	Y	-.019	3.5
5	MP BETA1	Y	-.042	3.5
6	MP BETA2	Y	-.069	3.5
7	MP BETA3	Y	-.064	3.5
8	MP BETA4	Y	-.017	3.5
9	MP GAMMA1	Y	-.05	3.5
10	MP GAMMA2	Y	-.07	3.5
11	MP GAMMA3	Y	-.083	3.5
12	MP GAMMA4	Y	-.009	3.5
13	MP ALPHA5	Y	-.044	3.5
14	MP BETA5	Y	-.04	3.5
15	MP GAMMA5	Y	-.05	3.5

Member Point Loads (BLC 5 : Ice Dead Load)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA1	Z	-.138	3.5
2	MP ALPHA2	Z	-.191	3.5
3	MP ALPHA3	Z	-.272	3.5

Member Point Loads (BLC 5 : Ice Dead Load) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
4	MP ALPHA4	Z	-.081	3.5
5	MP BETA1	Z	-.138	3.5
6	MP BETA2	Z	-.234	3.5
7	MP BETA3	Z	-.203	3.5
8	MP BETA4	Z	-.086	3.5
9	MP GAMMA1	Z	-.182	3.5
10	MP GAMMA2	Z	-.239	3.5
11	MP GAMMA3	Z	-.284	3.5
12	MP GAMMA4	Z	-.038	3.5
13	MP ALPHA5	Z	-.138	3.5
14	MP BETA5	Z	-.126	3.5
15	MP GAMMA5	Z	-.175	3.5

Member Point Loads (BLC 6 : Wind Load (30))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA1	Y	-.302	3.5
2	MP ALPHA2	Y	-.482	3.5
3	MP ALPHA3	Y	-.634	3.5
4	MP ALPHA4	Y	-.102	3.5
5	MP BETA1	Y	-.281	3.5
6	MP BETA2	Y	-.465	3.5
7	MP BETA3	Y	-.432	3.5
8	MP BETA4	Y	-.087	3.5
9	MP GAMMA1	Y	-.337	3.5
10	MP GAMMA2	Y	-.521	3.5
11	MP GAMMA3	Y	-.637	3.5
12	MP GAMMA4	Y	-.067	3.5
13	MP ALPHA5	Y	-.301	3.5
14	MP BETA5	Y	-.27	3.5
15	MP GAMMA5	Y	-.374	3.5
16	MP ALPHA1	X	-.174	3.5
17	MP ALPHA2	X	-.278	3.5
18	MP ALPHA3	X	-.366	3.5
19	MP ALPHA4	X	-.059	3.5
20	MP BETA1	X	-.162	3.5
21	MP BETA2	X	-.269	3.5
22	MP BETA3	X	-.249	3.5
23	MP BETA4	X	-.05	3.5
24	MP GAMMA1	X	-.195	3.5
25	MP GAMMA2	X	-.301	3.5
26	MP GAMMA3	X	-.368	3.5
27	MP GAMMA4	X	-.038	3.5
28	MP ALPHA5	X	-.174	3.5
29	MP BETA5	X	-.156	3.5
30	MP GAMMA5	X	-.216	3.5

Member Point Loads (BLC 7 : Ice Wind Load (30))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA1	Y	-.037	3.5
2	MP ALPHA2	Y	-.058	3.5
3	MP ALPHA3	Y	-.077	3.5

Member Point Loads (BLC 7 : Ice Wind Load (30)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
4	MP ALPHA4	Y	-.016	3.5
5	MP BETA1	Y	-.036	3.5
6	MP BETA2	Y	-.058	3.5
7	MP BETA3	Y	-.054	3.5
8	MP BETA4	Y	-.014	3.5
9	MP GAMMA1	Y	-.043	3.5
10	MP GAMMA2	Y	-.063	3.5
11	MP GAMMA3	Y	-.078	3.5
12	MP GAMMA4	Y	-.011	3.5
13	MP ALPHA5	Y	-.037	3.5
14	MP BETA5	Y	-.034	3.5
15	MP GAMMA5	Y	-.047	3.5
16	MP ALPHA1	X	-.022	3.5
17	MP ALPHA2	X	-.033	3.5
18	MP ALPHA3	X	-.044	3.5
19	MP ALPHA4	X	-.009	3.5
20	MP BETA1	X	-.021	3.5
21	MP BETA2	X	-.034	3.5
22	MP BETA3	X	-.031	3.5
23	MP BETA4	X	-.008	3.5
24	MP GAMMA1	X	-.025	3.5
25	MP GAMMA2	X	-.036	3.5
26	MP GAMMA3	X	-.045	3.5
27	MP GAMMA4	X	-.006	3.5
28	MP ALPHA5	X	-.022	3.5
29	MP BETA5	X	-.02	3.5
30	MP GAMMA5	X	-.027	3.5

Member Point Loads (BLC 8 : Wind Load (60))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA1	Y	-.166	3.5
2	MP ALPHA2	Y	-.255	3.5
3	MP ALPHA3	Y	-.326	3.5
4	MP ALPHA4	Y	-.049	3.5
5	MP BETA1	Y	-.166	3.5
6	MP BETA2	Y	-.279	3.5
7	MP BETA3	Y	-.26	3.5
8	MP BETA4	Y	-.054	3.5
9	MP GAMMA1	Y	-.197	3.5
10	MP GAMMA2	Y	-.309	3.5
11	MP GAMMA3	Y	-.386	3.5
12	MP GAMMA4	Y	-.045	3.5
13	MP ALPHA5	Y	-.166	3.5
14	MP BETA5	Y	-.161	3.5
15	MP GAMMA5	Y	-.225	3.5
16	MP ALPHA1	X	-.288	3.5
17	MP ALPHA2	X	-.441	3.5
18	MP ALPHA3	X	-.566	3.5
19	MP ALPHA4	X	-.085	3.5
20	MP BETA1	X	-.288	3.5
21	MP BETA2	X	-.483	3.5

Member Point Loads (BLC 8 : Wind Load (60)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
22	MP BETA3	X	-.45	3.5
23	MP BETA4	X	-.093	3.5
24	MP GAMMA1	X	-.341	3.5
25	MP GAMMA2	X	-.536	3.5
26	MP GAMMA3	X	-.669	3.5
27	MP GAMMA4	X	-.078	3.5
28	MP ALPHA5	X	-.288	3.5
29	MP BETA5	X	-.279	3.5
30	MP GAMMA5	X	-.39	3.5

Member Point Loads (BLC 9 : Ice Wind Load (60))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA1	Y	-.021	3.5
2	MP ALPHA2	Y	-.031	3.5
3	MP ALPHA3	Y	-.04	3.5
4	MP ALPHA4	Y	-.008	3.5
5	MP BETA1	Y	-.021	3.5
6	MP BETA2	Y	-.034	3.5
7	MP BETA3	Y	-.032	3.5
8	MP BETA4	Y	-.009	3.5
9	MP GAMMA1	Y	-.024	3.5
10	MP GAMMA2	Y	-.037	3.5
11	MP GAMMA3	Y	-.046	3.5
12	MP GAMMA4	Y	-.007	3.5
13	MP ALPHA5	Y	-.021	3.5
14	MP BETA5	Y	-.02	3.5
15	MP GAMMA5	Y	-.028	3.5
16	MP ALPHA1	X	-.037	3.5
17	MP ALPHA2	X	-.054	3.5
18	MP ALPHA3	X	-.07	3.5
19	MP ALPHA4	X	-.014	3.5
20	MP BETA1	X	-.037	3.5
21	MP BETA2	X	-.06	3.5
22	MP BETA3	X	-.055	3.5
23	MP BETA4	X	-.015	3.5
24	MP GAMMA1	X	-.042	3.5
25	MP GAMMA2	X	-.064	3.5
26	MP GAMMA3	X	-.081	3.5
27	MP GAMMA4	X	-.012	3.5
28	MP ALPHA5	X	-.037	3.5
29	MP BETA5	X	-.035	3.5
30	MP GAMMA5	X	-.049	3.5

Member Point Loads (BLC 10 : Wind Load (90))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA1	X	-.325	3.5
2	MP ALPHA2	X	-.486	3.5
3	MP ALPHA3	X	-.613	3.5
4	MP ALPHA4	X	-.088	3.5
5	MP BETA1	X	-.348	3.5
6	MP BETA2	X	-.598	3.5

Member Point Loads (BLC 10 : Wind Load (90)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
7	MP BETA3	X	-.56	3.5
8	MP BETA4	X	-.121	3.5
9	MP GAMMA1	X	-.389	3.5
10	MP GAMMA2	X	-.601	3.5
11	MP GAMMA3	X	-.736	3.5
12	MP GAMMA4	X	-.077	3.5
13	MP ALPHA5	X	-.324	3.5
14	MP BETA5	X	-.345	3.5
15	MP GAMMA5	X	-.431	3.5

Member Point Loads (BLC 11 : Ice Wind Load (90))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA1	X	-.042	3.5
2	MP ALPHA2	X	-.059	3.5
3	MP ALPHA3	X	-.076	3.5
4	MP ALPHA4	X	-.015	3.5
5	MP BETA1	X	-.043	3.5
6	MP BETA2	X	-.072	3.5
7	MP BETA3	X	-.067	3.5
8	MP BETA4	X	-.018	3.5
9	MP GAMMA1	X	-.049	3.5
10	MP GAMMA2	X	-.073	3.5
11	MP GAMMA3	X	-.09	3.5
12	MP GAMMA4	X	-.012	3.5
13	MP ALPHA5	X	-.042	3.5
14	MP BETA5	X	-.043	3.5
15	MP GAMMA5	X	-.055	3.5

Member Point Loads (BLC 12 : Wind Load (120))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA1	Y	.166	3.5
2	MP ALPHA2	Y	.255	3.5
3	MP ALPHA3	Y	.326	3.5
4	MP ALPHA4	Y	.049	3.5
5	MP BETA1	Y	.178	3.5
6	MP BETA2	Y	.309	3.5
7	MP BETA3	Y	.29	3.5
8	MP BETA4	Y	.064	3.5
9	MP GAMMA1	Y	.19	3.5
10	MP GAMMA2	Y	.283	3.5
11	MP GAMMA3	Y	.331	3.5
12	MP GAMMA4	Y	.025	3.5
13	MP ALPHA5	Y	.166	3.5
14	MP BETA5	Y	.178	3.5
15	MP GAMMA5	Y	.197	3.5
16	MP ALPHA1	X	-.288	3.5
17	MP ALPHA2	X	-.441	3.5
18	MP ALPHA3	X	-.566	3.5
19	MP ALPHA4	X	-.085	3.5
20	MP BETA1	X	-.308	3.5
21	MP BETA2	X	-.536	3.5

Member Point Loads (BLC 12 : Wind Load (120)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
22	MP BETA3	X	-.503	3.5
23	MP BETA4	X	-.111	3.5
24	MP GAMMA1	X	-.329	3.5
25	MP GAMMA2	X	-.491	3.5
26	MP GAMMA3	X	-.574	3.5
27	MP GAMMA4	X	-.043	3.5
28	MP ALPHA5	X	-.288	3.5
29	MP BETA5	X	-.308	3.5
30	MP GAMMA5	X	-.341	3.5

Member Point Loads (BLC 13 : Ice Wind Load (120))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA1	Y	.021	3.5
2	MP ALPHA2	Y	.031	3.5
3	MP ALPHA3	Y	.04	3.5
4	MP ALPHA4	Y	.008	3.5
5	MP BETA1	Y	.022	3.5
6	MP BETA2	Y	.037	3.5
7	MP BETA3	Y	.034	3.5
8	MP BETA4	Y	.01	3.5
9	MP GAMMA1	Y	.025	3.5
10	MP GAMMA2	Y	.035	3.5
11	MP GAMMA3	Y	.041	3.5
12	MP GAMMA4	Y	.004	3.5
13	MP ALPHA5	Y	.021	3.5
14	MP BETA5	Y	.022	3.5
15	MP GAMMA5	Y	.025	3.5
16	MP ALPHA1	X	-.037	3.5
17	MP ALPHA2	X	-.054	3.5
18	MP ALPHA3	X	-.07	3.5
19	MP ALPHA4	X	-.014	3.5
20	MP BETA1	X	-.038	3.5
21	MP BETA2	X	-.064	3.5
22	MP BETA3	X	-.06	3.5
23	MP BETA4	X	-.016	3.5
24	MP GAMMA1	X	-.043	3.5
25	MP GAMMA2	X	-.061	3.5
26	MP GAMMA3	X	-.072	3.5
27	MP GAMMA4	X	-.008	3.5
28	MP ALPHA5	X	-.037	3.5
29	MP BETA5	X	-.038	3.5
30	MP GAMMA5	X	-.044	3.5

Member Point Loads (BLC 14 : Wind Load (150))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA1	Y	.302	3.5
2	MP ALPHA2	Y	.482	3.5
3	MP ALPHA3	Y	.634	3.5
4	MP ALPHA4	Y	.102	3.5
5	MP BETA1	Y	.302	3.5
6	MP BETA2	Y	.518	3.5

Member Point Loads (BLC 14 : Wind Load (150)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
7	MP BETA3	Y	.485	3.5
8	MP BETA4	Y	.105	3.5
9	MP GAMMA1	Y	.325	3.5
10	MP GAMMA2	Y	.476	3.5
11	MP GAMMA3	Y	.542	3.5
12	MP GAMMA4	Y	.032	3.5
13	MP ALPHA5	Y	.301	3.5
14	MP BETA5	Y	.298	3.5
15	MP GAMMA5	Y	.324	3.5
16	MP ALPHA1	X	-.174	3.5
17	MP ALPHA2	X	-.278	3.5
18	MP ALPHA3	X	-.366	3.5
19	MP ALPHA4	X	-.059	3.5
20	MP BETA1	X	-.174	3.5
21	MP BETA2	X	-.299	3.5
22	MP BETA3	X	-.28	3.5
23	MP BETA4	X	-.061	3.5
24	MP GAMMA1	X	-.188	3.5
25	MP GAMMA2	X	-.275	3.5
26	MP GAMMA3	X	-.313	3.5
27	MP GAMMA4	X	-.018	3.5
28	MP ALPHA5	X	-.174	3.5
29	MP BETA5	X	-.172	3.5
30	MP GAMMA5	X	-.187	3.5

Member Point Loads (BLC 15 : Ice Wind Load (150))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA1	Y	.037	3.5
2	MP ALPHA2	Y	.058	3.5
3	MP ALPHA3	Y	.077	3.5
4	MP ALPHA4	Y	.016	3.5
5	MP BETA1	Y	.037	3.5
6	MP BETA2	Y	.063	3.5
7	MP BETA3	Y	.058	3.5
8	MP BETA4	Y	.016	3.5
9	MP GAMMA1	Y	.043	3.5
10	MP GAMMA2	Y	.059	3.5
11	MP GAMMA3	Y	.069	3.5
12	MP GAMMA4	Y	.006	3.5
13	MP ALPHA5	Y	.037	3.5
14	MP BETA5	Y	.037	3.5
15	MP GAMMA5	Y	.042	3.5
16	MP ALPHA1	X	-.022	3.5
17	MP ALPHA2	X	-.033	3.5
18	MP ALPHA3	X	-.044	3.5
19	MP ALPHA4	X	-.009	3.5
20	MP BETA1	X	-.022	3.5
21	MP BETA2	X	-.036	3.5
22	MP BETA3	X	-.034	3.5
23	MP BETA4	X	-.009	3.5
24	MP GAMMA1	X	-.025	3.5

Member Point Loads (BLC 15 : Ice Wind Load (150)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
25	MP GAMMA2	X	-.034	3.5
26	MP GAMMA3	X	-.04	3.5
27	MP GAMMA4	X	-.004	3.5
28	MP ALPHA5	X	-.022	3.5
29	MP BETA5	X	-.021	3.5
30	MP GAMMA5	X	-.024	3.5

Member Point Loads (BLC 16 : Wind Load (180))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA1	Y	.356	3.5
2	MP ALPHA2	Y	.58	3.5
3	MP ALPHA3	Y	.772	3.5
4	MP ALPHA4	Y	.128	3.5
5	MP BETA1	Y	.332	3.5
6	MP BETA2	Y	.557	3.5
7	MP BETA3	Y	.519	3.5
8	MP BETA4	Y	.107	3.5
9	MP GAMMA1	Y	.38	3.5
10	MP GAMMA2	Y	.567	3.5
11	MP GAMMA3	Y	.663	3.5
12	MP GAMMA4	Y	.05	3.5
13	MP ALPHA5	Y	.356	3.5
14	MP BETA5	Y	.322	3.5
15	MP GAMMA5	Y	.394	3.5

Member Point Loads (BLC 17 : Ice Wind Load (180))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA1	Y	.044	3.5
2	MP ALPHA2	Y	.069	3.5
3	MP ALPHA3	Y	.093	3.5
4	MP ALPHA4	Y	.019	3.5
5	MP BETA1	Y	.042	3.5
6	MP BETA2	Y	.069	3.5
7	MP BETA3	Y	.064	3.5
8	MP BETA4	Y	.017	3.5
9	MP GAMMA1	Y	.05	3.5
10	MP GAMMA2	Y	.07	3.5
11	MP GAMMA3	Y	.083	3.5
12	MP GAMMA4	Y	.009	3.5
13	MP ALPHA5	Y	.044	3.5
14	MP BETA5	Y	.04	3.5
15	MP GAMMA5	Y	.05	3.5

Member Point Loads (BLC 18 : Wind Load (210))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA1	Y	.302	3.5
2	MP ALPHA2	Y	.482	3.5
3	MP ALPHA3	Y	.634	3.5
4	MP ALPHA4	Y	.102	3.5
5	MP BETA1	Y	.281	3.5

Member Point Loads (BLC 18 : Wind Load (210)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
6	MP BETA2	Y	.465	3.5
7	MP BETA3	Y	.432	3.5
8	MP BETA4	Y	.087	3.5
9	MP GAMMA1	Y	.337	3.5
10	MP GAMMA2	Y	.521	3.5
11	MP GAMMA3	Y	.637	3.5
12	MP GAMMA4	Y	.067	3.5
13	MP ALPHA5	Y	.301	3.5
14	MP BETA5	Y	.27	3.5
15	MP GAMMA5	Y	.374	3.5
16	MP ALPHA1	X	.174	3.5
17	MP ALPHA2	X	.278	3.5
18	MP ALPHA3	X	.366	3.5
19	MP ALPHA4	X	.059	3.5
20	MP BETA1	X	.162	3.5
21	MP BETA2	X	.269	3.5
22	MP BETA3	X	.249	3.5
23	MP BETA4	X	.05	3.5
24	MP GAMMA1	X	.195	3.5
25	MP GAMMA2	X	.301	3.5
26	MP GAMMA3	X	.368	3.5
27	MP GAMMA4	X	.038	3.5
28	MP ALPHA5	X	.174	3.5
29	MP BETA5	X	.156	3.5
30	MP GAMMA5	X	.216	3.5

Member Point Loads (BLC 19 : Ice Wind Load (210))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA1	Y	.037	3.5
2	MP ALPHA2	Y	.058	3.5
3	MP ALPHA3	Y	.077	3.5
4	MP ALPHA4	Y	.016	3.5
5	MP BETA1	Y	.036	3.5
6	MP BETA2	Y	.058	3.5
7	MP BETA3	Y	.054	3.5
8	MP BETA4	Y	.014	3.5
9	MP GAMMA1	Y	.043	3.5
10	MP GAMMA2	Y	.063	3.5
11	MP GAMMA3	Y	.078	3.5
12	MP GAMMA4	Y	.011	3.5
13	MP ALPHA5	Y	.037	3.5
14	MP BETA5	Y	.034	3.5
15	MP GAMMA5	Y	.047	3.5
16	MP ALPHA1	X	.022	3.5
17	MP ALPHA2	X	.033	3.5
18	MP ALPHA3	X	.044	3.5
19	MP ALPHA4	X	.009	3.5
20	MP BETA1	X	.021	3.5
21	MP BETA2	X	.034	3.5
22	MP BETA3	X	.031	3.5
23	MP BETA4	X	.008	3.5

Member Point Loads (BLC 19 : Ice Wind Load (210)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
24	MP GAMMA1	X	.025	3.5
25	MP GAMMA2	X	.036	3.5
26	MP GAMMA3	X	.045	3.5
27	MP GAMMA4	X	.006	3.5
28	MP ALPHA5	X	.022	3.5
29	MP BETA5	X	.02	3.5
30	MP GAMMA5	X	.027	3.5

Member Point Loads (BLC 20 : Wind Load (240))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA1	Y	.166	3.5
2	MP ALPHA2	Y	.255	3.5
3	MP ALPHA3	Y	.326	3.5
4	MP ALPHA4	Y	.049	3.5
5	MP BETA1	Y	.166	3.5
6	MP BETA2	Y	.279	3.5
7	MP BETA3	Y	.26	3.5
8	MP BETA4	Y	.054	3.5
9	MP GAMMA1	Y	.197	3.5
10	MP GAMMA2	Y	.309	3.5
11	MP GAMMA3	Y	.386	3.5
12	MP GAMMA4	Y	.045	3.5
13	MP ALPHA5	Y	.166	3.5
14	MP BETA5	Y	.161	3.5
15	MP GAMMA5	Y	.225	3.5
16	MP ALPHA1	X	.288	3.5
17	MP ALPHA2	X	.441	3.5
18	MP ALPHA3	X	.566	3.5
19	MP ALPHA4	X	.085	3.5
20	MP BETA1	X	.288	3.5
21	MP BETA2	X	.483	3.5
22	MP BETA3	X	.45	3.5
23	MP BETA4	X	.093	3.5
24	MP GAMMA1	X	.341	3.5
25	MP GAMMA2	X	.536	3.5
26	MP GAMMA3	X	.669	3.5
27	MP GAMMA4	X	.078	3.5
28	MP ALPHA5	X	.288	3.5
29	MP BETA5	X	.279	3.5
30	MP GAMMA5	X	.39	3.5

Member Point Loads (BLC 21 : Ice Wind Load (240))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA1	Y	.021	3.5
2	MP ALPHA2	Y	.031	3.5
3	MP ALPHA3	Y	.04	3.5
4	MP ALPHA4	Y	.008	3.5
5	MP BETA1	Y	.021	3.5
6	MP BETA2	Y	.034	3.5
7	MP BETA3	Y	.032	3.5
8	MP BETA4	Y	.009	3.5

Member Point Loads (BLC 21 : Ice Wind Load (240)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
9	MP GAMMA1	Y	.024	3.5
10	MP GAMMA2	Y	.037	3.5
11	MP GAMMA3	Y	.046	3.5
12	MP GAMMA4	Y	.007	3.5
13	MP ALPHA5	Y	.021	3.5
14	MP BETA5	Y	.02	3.5
15	MP GAMMA5	Y	.028	3.5
16	MP ALPHA1	X	.037	3.5
17	MP ALPHA2	X	.054	3.5
18	MP ALPHA3	X	.07	3.5
19	MP ALPHA4	X	.014	3.5
20	MP BETA1	X	.037	3.5
21	MP BETA2	X	.06	3.5
22	MP BETA3	X	.055	3.5
23	MP BETA4	X	.015	3.5
24	MP GAMMA1	X	.042	3.5
25	MP GAMMA2	X	.064	3.5
26	MP GAMMA3	X	.081	3.5
27	MP GAMMA4	X	.012	3.5
28	MP ALPHA5	X	.037	3.5
29	MP BETA5	X	.035	3.5
30	MP GAMMA5	X	.049	3.5

Member Point Loads (BLC 22 : Wind Load (270))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA1	X	.325	3.5
2	MP ALPHA2	X	.486	3.5
3	MP ALPHA3	X	.613	3.5
4	MP ALPHA4	X	.088	3.5
5	MP BETA1	X	.348	3.5
6	MP BETA2	X	.598	3.5
7	MP BETA3	X	.56	3.5
8	MP BETA4	X	.121	3.5
9	MP GAMMA1	X	.389	3.5
10	MP GAMMA2	X	.601	3.5
11	MP GAMMA3	X	.736	3.5
12	MP GAMMA4	X	.077	3.5
13	MP ALPHA5	X	.324	3.5
14	MP BETA5	X	.345	3.5
15	MP GAMMA5	X	.431	3.5

Member Point Loads (BLC 23 : Ice Wind Load (270))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA1	X	.042	3.5
2	MP ALPHA2	X	.059	3.5
3	MP ALPHA3	X	.076	3.5
4	MP ALPHA4	X	.015	3.5
5	MP BETA1	X	.043	3.5
6	MP BETA2	X	.072	3.5
7	MP BETA3	X	.067	3.5
8	MP BETA4	X	.018	3.5

Member Point Loads (BLC 23 : Ice Wind Load (270)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
9	MP GAMMA1	X	.049	3.5
10	MP GAMMA2	X	.073	3.5
11	MP GAMMA3	X	.09	3.5
12	MP GAMMA4	X	.012	3.5
13	MP ALPHA5	X	.042	3.5
14	MP BETA5	X	.043	3.5
15	MP GAMMA5	X	.055	3.5

Member Point Loads (BLC 24 : Wind Load (300))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA1	Y	-.166	3.5
2	MP ALPHA2	Y	-.255	3.5
3	MP ALPHA3	Y	-.326	3.5
4	MP ALPHA4	Y	-.049	3.5
5	MP BETA1	Y	-.178	3.5
6	MP BETA2	Y	-.309	3.5
7	MP BETA3	Y	-.29	3.5
8	MP BETA4	Y	-.064	3.5
9	MP GAMMA1	Y	-.19	3.5
10	MP GAMMA2	Y	-.283	3.5
11	MP GAMMA3	Y	-.331	3.5
12	MP GAMMA4	Y	-.025	3.5
13	MP ALPHA5	Y	-.166	3.5
14	MP BETA5	Y	-.178	3.5
15	MP GAMMA5	Y	-.197	3.5
16	MP ALPHA1	X	.288	3.5
17	MP ALPHA2	X	.441	3.5
18	MP ALPHA3	X	.566	3.5
19	MP ALPHA4	X	.085	3.5
20	MP BETA1	X	.308	3.5
21	MP BETA2	X	.536	3.5
22	MP BETA3	X	.503	3.5
23	MP BETA4	X	.111	3.5
24	MP GAMMA1	X	.329	3.5
25	MP GAMMA2	X	.491	3.5
26	MP GAMMA3	X	.574	3.5
27	MP GAMMA4	X	.043	3.5
28	MP ALPHA5	X	.288	3.5
29	MP BETA5	X	.308	3.5
30	MP GAMMA5	X	.341	3.5

Member Point Loads (BLC 25 : Ice Wind Load (300))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA1	Y	-.021	3.5
2	MP ALPHA2	Y	-.031	3.5
3	MP ALPHA3	Y	-.04	3.5
4	MP ALPHA4	Y	-.008	3.5
5	MP BETA1	Y	-.022	3.5
6	MP BETA2	Y	-.037	3.5
7	MP BETA3	Y	-.034	3.5
8	MP BETA4	Y	-.01	3.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
9	MP GAMMA1	Y	-.025	3.5
10	MP GAMMA2	Y	-.035	3.5
11	MP GAMMA3	Y	-.041	3.5
12	MP GAMMA4	Y	-.004	3.5
13	MP ALPHA5	Y	-.021	3.5
14	MP BETA5	Y	-.022	3.5
15	MP GAMMA5	Y	-.025	3.5
16	MP ALPHA1	X	.037	3.5
17	MP ALPHA2	X	.054	3.5
18	MP ALPHA3	X	.07	3.5
19	MP ALPHA4	X	.014	3.5
20	MP BETA1	X	.038	3.5
21	MP BETA2	X	.064	3.5
22	MP BETA3	X	.06	3.5
23	MP BETA4	X	.016	3.5
24	MP GAMMA1	X	.043	3.5
25	MP GAMMA2	X	.061	3.5
26	MP GAMMA3	X	.072	3.5
27	MP GAMMA4	X	.008	3.5
28	MP ALPHA5	X	.037	3.5
29	MP BETA5	X	.038	3.5
30	MP GAMMA5	X	.044	3.5

Member Point Loads (BLC 26 : Wind Load (330))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA1	Y	-.302	3.5
2	MP ALPHA2	Y	-.482	3.5
3	MP ALPHA3	Y	-.634	3.5
4	MP ALPHA4	Y	-.102	3.5
5	MP BETA1	Y	-.302	3.5
6	MP BETA2	Y	-.518	3.5
7	MP BETA3	Y	-.485	3.5
8	MP BETA4	Y	-.105	3.5
9	MP GAMMA1	Y	-.325	3.5
10	MP GAMMA2	Y	-.476	3.5
11	MP GAMMA3	Y	-.542	3.5
12	MP GAMMA4	Y	-.032	3.5
13	MP ALPHA5	Y	-.301	3.5
14	MP BETA5	Y	-.298	3.5
15	MP GAMMA5	Y	-.324	3.5
16	MP ALPHA1	X	.174	3.5
17	MP ALPHA2	X	.278	3.5
18	MP ALPHA3	X	.366	3.5
19	MP ALPHA4	X	.059	3.5
20	MP BETA1	X	.174	3.5
21	MP BETA2	X	.299	3.5
22	MP BETA3	X	.28	3.5
23	MP BETA4	X	.061	3.5
24	MP GAMMA1	X	.188	3.5
25	MP GAMMA2	X	.275	3.5
26	MP GAMMA3	X	.313	3.5

Member Point Loads (BLC 26 : Wind Load (330)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
27	MP GAMMA4	X	.018	3.5
28	MP ALPHA5	X	.174	3.5
29	MP BETA5	X	.172	3.5
30	MP GAMMA5	X	.187	3.5

Member Point Loads (BLC 27 : Ice Wind Load (330))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA1	Y	-.037	3.5
2	MP ALPHA2	Y	-.058	3.5
3	MP ALPHA3	Y	-.077	3.5
4	MP ALPHA4	Y	-.016	3.5
5	MP BETA1	Y	-.037	3.5
6	MP BETA2	Y	-.063	3.5
7	MP BETA3	Y	-.058	3.5
8	MP BETA4	Y	-.016	3.5
9	MP GAMMA1	Y	-.043	3.5
10	MP GAMMA2	Y	-.059	3.5
11	MP GAMMA3	Y	-.069	3.5
12	MP GAMMA4	Y	-.006	3.5
13	MP ALPHA5	Y	-.037	3.5
14	MP BETA5	Y	-.037	3.5
15	MP GAMMA5	Y	-.042	3.5
16	MP ALPHA1	X	.022	3.5
17	MP ALPHA2	X	.033	3.5
18	MP ALPHA3	X	.044	3.5
19	MP ALPHA4	X	.009	3.5
20	MP BETA1	X	.022	3.5
21	MP BETA2	X	.036	3.5
22	MP BETA3	X	.034	3.5
23	MP BETA4	X	.009	3.5
24	MP GAMMA1	X	.025	3.5
25	MP GAMMA2	X	.034	3.5
26	MP GAMMA3	X	.04	3.5
27	MP GAMMA4	X	.004	3.5
28	MP ALPHA5	X	.022	3.5
29	MP BETA5	X	.021	3.5
30	MP GAMMA5	X	.024	3.5

Member Point Loads (BLC 28 : Maintanence (0))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA1	Y	-.025	3.5
2	MP ALPHA2	Y	-.036	3.5
3	MP ALPHA3	Y	-.048	3.5
4	MP ALPHA4	Y	-.01	3.5
5	MP BETA1	Y	-.021	3.5
6	MP BETA2	Y	-.035	3.5
7	MP BETA3	Y	-.032	3.5
8	MP BETA4	Y	-.008	3.5
9	MP GAMMA1	Y	-.024	3.5
10	MP GAMMA2	Y	-.044	3.5
11	MP GAMMA3	Y	-.032	3.5

Member Point Loads (BLC 28 : Maintanence (0)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
12	MP GAMMA4	Y	-.005	3.5
13	MP ALPHA5	Y	-.022	3.5
14	MP BETA5	Y	-.02	3.5
15	MP GAMMA5	Y	-.029	3.5

Member Point Loads (BLC 29 : Maintanence (30))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA1	Y	-.021	3.5
2	MP ALPHA2	Y	-.03	3.5
3	MP ALPHA3	Y	-.04	3.5
4	MP ALPHA4	Y	-.008	3.5
5	MP BETA1	Y	-.018	3.5
6	MP BETA2	Y	-.029	3.5
7	MP BETA3	Y	-.027	3.5
8	MP BETA4	Y	-.007	3.5
9	MP GAMMA1	Y	-.021	3.5
10	MP GAMMA2	Y	-.042	3.5
11	MP GAMMA3	Y	-.03	3.5
12	MP GAMMA4	Y	-.006	3.5
13	MP ALPHA5	Y	-.019	3.5
14	MP BETA5	Y	-.017	3.5
15	MP GAMMA5	Y	-.028	3.5
16	MP ALPHA1	X	-.012	3.5
17	MP ALPHA2	X	-.017	3.5
18	MP ALPHA3	X	-.023	3.5
19	MP ALPHA4	X	-.005	3.5
20	MP BETA1	X	-.01	3.5
21	MP BETA2	X	-.017	3.5
22	MP BETA3	X	-.016	3.5
23	MP BETA4	X	-.004	3.5
24	MP GAMMA1	X	-.012	3.5
25	MP GAMMA2	X	-.024	3.5
26	MP GAMMA3	X	-.018	3.5
27	MP GAMMA4	X	-.003	3.5
28	MP ALPHA5	X	-.011	3.5
29	MP BETA5	X	-.01	3.5
30	MP GAMMA5	X	-.016	3.5

Member Point Loads (BLC 30 : Maintanence (60))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA1	Y	-.012	3.5
2	MP ALPHA2	Y	-.016	3.5
3	MP ALPHA3	Y	-.02	3.5
4	MP ALPHA4	Y	-.004	3.5
5	MP BETA1	Y	-.01	3.5
6	MP BETA2	Y	-.017	3.5
7	MP BETA3	Y	-.016	3.5
8	MP BETA4	Y	-.004	3.5
9	MP GAMMA1	Y	-.012	3.5
10	MP GAMMA2	Y	-.025	3.5
11	MP GAMMA3	Y	-.018	3.5

Member Point Loads (BLC 30 : Maintanence (60)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
12	MP GAMMA4	Y	-.004	3.5
13	MP ALPHA5	Y	-.01	3.5
14	MP BETA5	Y	-.01	3.5
15	MP GAMMA5	Y	-.017	3.5
16	MP ALPHA1	X	-.021	3.5
17	MP ALPHA2	X	-.028	3.5
18	MP ALPHA3	X	-.035	3.5
19	MP ALPHA4	X	-.007	3.5
20	MP BETA1	X	-.018	3.5
21	MP BETA2	X	-.03	3.5
22	MP BETA3	X	-.028	3.5
23	MP BETA4	X	-.007	3.5
24	MP GAMMA1	X	-.021	3.5
25	MP GAMMA2	X	-.044	3.5
26	MP GAMMA3	X	-.031	3.5
27	MP GAMMA4	X	-.007	3.5
28	MP ALPHA5	X	-.018	3.5
29	MP BETA5	X	-.017	3.5
30	MP GAMMA5	X	-.03	3.5

Member Point Loads (BLC 31 : Maintanence (90))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA1	X	-.024	3.5
2	MP ALPHA2	X	-.03	3.5
3	MP ALPHA3	X	-.038	3.5
4	MP ALPHA4	X	-.007	3.5
5	MP BETA1	X	-.022	3.5
6	MP BETA2	X	-.037	3.5
7	MP BETA3	X	-.035	3.5
8	MP BETA4	X	-.009	3.5
9	MP GAMMA1	X	-.024	3.5
10	MP GAMMA2	X	-.049	3.5
11	MP GAMMA3	X	-.035	3.5
12	MP GAMMA4	X	-.007	3.5
13	MP ALPHA5	X	-.02	3.5
14	MP BETA5	X	-.022	3.5
15	MP GAMMA5	X	-.033	3.5

Member Point Loads (BLC 32 : Maintanence (120))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA1	Y	.012	3.5
2	MP ALPHA2	Y	.016	3.5
3	MP ALPHA3	Y	.02	3.5
4	MP ALPHA4	Y	.004	3.5
5	MP BETA1	Y	.011	3.5
6	MP BETA2	Y	.019	3.5
7	MP BETA3	Y	.018	3.5
8	MP BETA4	Y	.005	3.5
9	MP GAMMA1	Y	.012	3.5
10	MP GAMMA2	Y	.022	3.5
11	MP GAMMA3	Y	.016	3.5

Member Point Loads (BLC 32 : Maintanence (120)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
12	MP GAMMA4	Y	.002	3.5
13	MP ALPHA5	Y	.01	3.5
14	MP BETA5	Y	.011	3.5
15	MP GAMMA5	Y	.015	3.5
16	MP ALPHA1	X	-.021	3.5
17	MP ALPHA2	X	-.028	3.5
18	MP ALPHA3	X	-.035	3.5
19	MP ALPHA4	X	-.007	3.5
20	MP BETA1	X	-.019	3.5
21	MP BETA2	X	-.033	3.5
22	MP BETA3	X	-.031	3.5
23	MP BETA4	X	-.009	3.5
24	MP GAMMA1	X	-.021	3.5
25	MP GAMMA2	X	-.038	3.5
26	MP GAMMA3	X	-.028	3.5
27	MP GAMMA4	X	-.004	3.5
28	MP ALPHA5	X	-.018	3.5
29	MP BETA5	X	-.019	3.5
30	MP GAMMA5	X	-.025	3.5

Member Point Loads (BLC 33 : Maintanence (150))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA1	Y	.021	3.5
2	MP ALPHA2	Y	.03	3.5
3	MP ALPHA3	Y	.04	3.5
4	MP ALPHA4	Y	.008	3.5
5	MP BETA1	Y	.019	3.5
6	MP BETA2	Y	.032	3.5
7	MP BETA3	Y	.03	3.5
8	MP BETA4	Y	.008	3.5
9	MP GAMMA1	Y	.02	3.5
10	MP GAMMA2	Y	.037	3.5
11	MP GAMMA3	Y	.027	3.5
12	MP GAMMA4	Y	.003	3.5
13	MP ALPHA5	Y	.019	3.5
14	MP BETA5	Y	.019	3.5
15	MP GAMMA5	Y	.024	3.5
16	MP ALPHA1	X	-.012	3.5
17	MP ALPHA2	X	-.017	3.5
18	MP ALPHA3	X	-.023	3.5
19	MP ALPHA4	X	-.005	3.5
20	MP BETA1	X	-.011	3.5
21	MP BETA2	X	-.019	3.5
22	MP BETA3	X	-.018	3.5
23	MP BETA4	X	-.005	3.5
24	MP GAMMA1	X	-.012	3.5
25	MP GAMMA2	X	-.021	3.5
26	MP GAMMA3	X	-.016	3.5
27	MP GAMMA4	X	-.002	3.5
28	MP ALPHA5	X	-.011	3.5
29	MP BETA5	X	-.011	3.5

Member Point Loads (BLC 33 : Maintanence (150)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
30	MP GAMMA5	X	-.014	3.5

Member Point Loads (BLC 34 : Maintanence (180))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA1	Y	.025	3.5
2	MP ALPHA2	Y	.036	3.5
3	MP ALPHA3	Y	.048	3.5
4	MP ALPHA4	Y	.01	3.5
5	MP BETA1	Y	.021	3.5
6	MP BETA2	Y	.035	3.5
7	MP BETA3	Y	.032	3.5
8	MP BETA4	Y	.008	3.5
9	MP GAMMA1	Y	.024	3.5
10	MP GAMMA2	Y	.044	3.5
11	MP GAMMA3	Y	.032	3.5
12	MP GAMMA4	Y	.005	3.5
13	MP ALPHA5	Y	.022	3.5
14	MP BETA5	Y	.02	3.5
15	MP GAMMA5	Y	.029	3.5

Member Point Loads (BLC 35 : Maintanence (210))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA1	Y	.021	3.5
2	MP ALPHA2	Y	.03	3.5
3	MP ALPHA3	Y	.04	3.5
4	MP ALPHA4	Y	.008	3.5
5	MP BETA1	Y	.018	3.5
6	MP BETA2	Y	.029	3.5
7	MP BETA3	Y	.027	3.5
8	MP BETA4	Y	.007	3.5
9	MP GAMMA1	Y	.021	3.5
10	MP GAMMA2	Y	.042	3.5
11	MP GAMMA3	Y	.03	3.5
12	MP GAMMA4	Y	.006	3.5
13	MP ALPHA5	Y	.019	3.5
14	MP BETA5	Y	.017	3.5
15	MP GAMMA5	Y	.028	3.5
16	MP ALPHA1	X	.012	3.5
17	MP ALPHA2	X	.017	3.5
18	MP ALPHA3	X	.023	3.5
19	MP ALPHA4	X	.005	3.5
20	MP BETA1	X	.01	3.5
21	MP BETA2	X	.017	3.5
22	MP BETA3	X	.016	3.5
23	MP BETA4	X	.004	3.5
24	MP GAMMA1	X	.012	3.5
25	MP GAMMA2	X	.024	3.5
26	MP GAMMA3	X	.018	3.5
27	MP GAMMA4	X	.003	3.5
28	MP ALPHA5	X	.011	3.5
29	MP BETA5	X	.01	3.5

Member Point Loads (BLC 35 : Maintanence (210)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
30	MP GAMMA5	X	.016	3.5

Member Point Loads (BLC 36 : Maintanence (240))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA1	Y	.012	3.5
2	MP ALPHA2	Y	.016	3.5
3	MP ALPHA3	Y	.02	3.5
4	MP ALPHA4	Y	.004	3.5
5	MP BETA1	Y	.01	3.5
6	MP BETA2	Y	.017	3.5
7	MP BETA3	Y	.016	3.5
8	MP BETA4	Y	.004	3.5
9	MP GAMMA1	Y	.012	3.5
10	MP GAMMA2	Y	.025	3.5
11	MP GAMMA3	Y	.018	3.5
12	MP GAMMA4	Y	.004	3.5
13	MP ALPHA5	Y	.01	3.5
14	MP BETA5	Y	.01	3.5
15	MP GAMMA5	Y	.017	3.5
16	MP ALPHA1	X	.021	3.5
17	MP ALPHA2	X	.028	3.5
18	MP ALPHA3	X	.035	3.5
19	MP ALPHA4	X	.007	3.5
20	MP BETA1	X	.018	3.5
21	MP BETA2	X	.03	3.5
22	MP BETA3	X	.028	3.5
23	MP BETA4	X	.007	3.5
24	MP GAMMA1	X	.021	3.5
25	MP GAMMA2	X	.044	3.5
26	MP GAMMA3	X	.031	3.5
27	MP GAMMA4	X	.007	3.5
28	MP ALPHA5	X	.018	3.5
29	MP BETA5	X	.017	3.5
30	MP GAMMA5	X	.03	3.5

Member Point Loads (BLC 37 : Maintanence (270))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA1	X	.024	3.5
2	MP ALPHA2	X	.03	3.5
3	MP ALPHA3	X	.038	3.5
4	MP ALPHA4	X	.007	3.5
5	MP BETA1	X	.022	3.5
6	MP BETA2	X	.037	3.5
7	MP BETA3	X	.035	3.5
8	MP BETA4	X	.009	3.5
9	MP GAMMA1	X	.024	3.5
10	MP GAMMA2	X	.049	3.5
11	MP GAMMA3	X	.035	3.5
12	MP GAMMA4	X	.007	3.5
13	MP ALPHA5	X	.02	3.5
14	MP BETA5	X	.022	3.5

Member Point Loads (BLC 37 : Maintanence (270)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
15	MP GAMMA5	X	.033	3.5

Member Point Loads (BLC 38 : Maintanence (300))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA1	Y	-.012	3.5
2	MP ALPHA2	Y	-.016	3.5
3	MP ALPHA3	Y	-.02	3.5
4	MP ALPHA4	Y	-.004	3.5
5	MP BETA1	Y	-.011	3.5
6	MP BETA2	Y	-.019	3.5
7	MP BETA3	Y	-.018	3.5
8	MP BETA4	Y	-.005	3.5
9	MP GAMMA1	Y	-.012	3.5
10	MP GAMMA2	Y	-.022	3.5
11	MP GAMMA3	Y	-.016	3.5
12	MP GAMMA4	Y	-.002	3.5
13	MP ALPHA5	Y	-.01	3.5
14	MP BETA5	Y	-.011	3.5
15	MP GAMMA5	Y	-.015	3.5
16	MP ALPHA1	X	.021	3.5
17	MP ALPHA2	X	.028	3.5
18	MP ALPHA3	X	.035	3.5
19	MP ALPHA4	X	.007	3.5
20	MP BETA1	X	.019	3.5
21	MP BETA2	X	.033	3.5
22	MP BETA3	X	.031	3.5
23	MP BETA4	X	.009	3.5
24	MP GAMMA1	X	.021	3.5
25	MP GAMMA2	X	.038	3.5
26	MP GAMMA3	X	.028	3.5
27	MP GAMMA4	X	.004	3.5
28	MP ALPHA5	X	.018	3.5
29	MP BETA5	X	.019	3.5
30	MP GAMMA5	X	.025	3.5

Member Point Loads (BLC 39 : Maintanence (330))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA1	Y	-.021	3.5
2	MP ALPHA2	Y	-.03	3.5
3	MP ALPHA3	Y	-.04	3.5
4	MP ALPHA4	Y	-.008	3.5
5	MP BETA1	Y	-.019	3.5
6	MP BETA2	Y	-.032	3.5
7	MP BETA3	Y	-.03	3.5
8	MP BETA4	Y	-.008	3.5
9	MP GAMMA1	Y	-.02	3.5
10	MP GAMMA2	Y	-.037	3.5
11	MP GAMMA3	Y	-.027	3.5
12	MP GAMMA4	Y	-.003	3.5
13	MP ALPHA5	Y	-.019	3.5
14	MP BETA5	Y	-.019	3.5

Member Point Loads (BLC 39 : Maintanence (330)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
15	MP GAMMA5	Y	-.024	3.5
16	MP ALPHA1	X	.012	3.5
17	MP ALPHA2	X	.017	3.5
18	MP ALPHA3	X	.023	3.5
19	MP ALPHA4	X	.005	3.5
20	MP BETA1	X	.011	3.5
21	MP BETA2	X	.019	3.5
22	MP BETA3	X	.018	3.5
23	MP BETA4	X	.005	3.5
24	MP GAMMA1	X	.012	3.5
25	MP GAMMA2	X	.021	3.5
26	MP GAMMA3	X	.016	3.5
27	MP GAMMA4	X	.002	3.5
28	MP ALPHA5	X	.011	3.5
29	MP BETA5	X	.011	3.5
30	MP GAMMA5	X	.014	3.5

Member Distributed Loads (BLC 1 : Wind Load (0))

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	Standoff6	Y	-.005	-.005	0	0
2	Standoff5	Y	-.005	-.005	0	0
3	Standoff4	Y	-.005	-.005	0	0
4	Standoff3	Y	-.005	-.005	0	0
5	Standoff2	Y	-.005	-.005	0	0
6	Standoff1	Y	-.005	-.005	0	0
7	SUPPORT2	Y	-.013	-.013	0	0
8	SUPPORT1	Y	-.013	-.013	0	0
9	Rail3	Y	-.004	-.004	0	0
10	Rail2	Y	-.013	-.013	0	0
11	Rail1	Y	-.013	-.013	0	0
12	RUNG6	Y	-.001	-.001	0	0
13	RUNG5	Y	-.001	-.001	0	0
14	RUNG4	Y	-.001	-.001	0	0
15	RUNG3	Y	-.001	-.001	0	0
16	RUNG2	Y	-.001	-.001	0	0
17	RUNG1	Y	-.001	-.001	0	0
18	PLATE3	Y	-.001	-.001	0	0
19	PLATE2	Y	-.001	-.001	0	0
20	PLATE1	Y	-.001	-.001	0	0
21	MP GAMMA6	Y	-.012	-.012	0	0
22	MP GAMMA5	Y	-.012	-.012	0	0
23	MP GAMMA4	Y	-.012	-.012	0	0
24	MP GAMMA3	Y	-.012	-.012	0	0
25	MP GAMMA2	Y	-.012	-.012	0	0
26	MP GAMMA1	Y	-.012	-.012	0	0
27	MP BETA6	Y	-.012	-.012	0	0
28	MP BETA5	Y	-.012	-.012	0	0
29	MP BETA4	Y	-.012	-.012	0	0
30	MP BETA3	Y	-.012	-.012	0	0
31	MP BETA2	Y	-.012	-.012	0	0

Member Distributed Loads (BLC 1 : Wind Load (0)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
32	MP BETA1	Y	-.012	-.012	0	0
33	MP ALPHA8	Y	-.012	-.012	0	0
34	MP ALPHA7	Y	-.012	-.012	0	0
35	MP ALPHA6	Y	-.012	-.012	0	0
36	MP ALPHA5	Y	-.012	-.012	0	0
37	MP ALPHA4	Y	-.012	-.012	0	0
38	MP ALPHA3	Y	-.012	-.012	0	0
39	MP ALPHA2	Y	-.012	-.012	0	0
40	MP ALPHA1	Y	-.012	-.012	0	0
41	LADDER2	Y	-.004	-.004	0	0
42	LADDER1	Y	-.004	-.004	0	0
43	FACE3	Y	-.01	-.01	0	0
44	FACE2	Y	-.01	-.01	0	0
45	FACE1	Y	-.01	-.01	0	0
46	CORNER3	Y	-.013	-.013	0	0
47	CORNER2	Y	-.013	-.013	0	0
48	CORNER1	Y	-.013	-.013	0	0
49	RAIL6	Y	-.004	-.004	0	0
50	RAIL5	Y	-.013	-.013	0	0
51	RAIL4	Y	-.013	-.013	0	0
52	PLATE4	Y	-.001	-.001	0	0
53	PLATE5	Y	-.001	-.001	0	0
54	PLATE6	Y	-.001	-.001	0	0

Member Distributed Loads (BLC 4 : Ice Wind Load (0))

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	Standoff6	Y	-.003	-.003	0	0
2	Standoff5	Y	-.003	-.003	0	0
3	Standoff4	Y	-.003	-.003	0	0
4	Standoff3	Y	-.003	-.003	0	0
5	Standoff2	Y	-.003	-.003	0	0
6	Standoff1	Y	-.003	-.003	0	0
7	SUPPORT2	Y	-.005	-.005	0	0
8	SUPPORT1	Y	-.005	-.005	0	0
9	Rail3	Y	-.002	-.002	0	0
10	Rail2	Y	-.006	-.006	0	0
11	Rail1	Y	-.006	-.006	0	0
12	RUNG6	Y	-.001	-.001	0	0
13	RUNG5	Y	-.001	-.001	0	0
14	RUNG4	Y	-.001	-.001	0	0
15	RUNG3	Y	-.001	-.001	0	0
16	RUNG2	Y	-.001	-.001	0	0
17	RUNG1	Y	-.001	-.001	0	0
18	PLATE3	Y	-.002	-.002	0	0
19	PLATE2	Y	-.002	-.002	0	0
20	PLATE1	Y	-.002	-.002	0	0
21	MP GAMMA6	Y	-.004	-.004	0	0
22	MP GAMMA5	Y	-.004	-.004	0	0
23	MP GAMMA4	Y	-.004	-.004	0	0
24	MP GAMMA3	Y	-.004	-.004	0	0
25	MP GAMMA2	Y	-.004	-.004	0	0

Member Distributed Loads (BLC 4 : Ice Wind Load (0)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
26	MP GAMMA1	Y	-.004	-.004	0	0
27	MP BETA6	Y	-.004	-.004	0	0
28	MP BETA5	Y	-.004	-.004	0	0
29	MP BETA4	Y	-.004	-.004	0	0
30	MP BETA3	Y	-.004	-.004	0	0
31	MP BETA2	Y	-.004	-.004	0	0
32	MP BETA1	Y	-.004	-.004	0	0
33	MP ALPHA8	Y	-.004	-.004	0	0
34	MP ALPHA7	Y	-.004	-.004	0	0
35	MP ALPHA6	Y	-.004	-.004	0	0
36	MP ALPHA5	Y	-.004	-.004	0	0
37	MP ALPHA4	Y	-.004	-.004	0	0
38	MP ALPHA3	Y	-.004	-.004	0	0
39	MP ALPHA2	Y	-.004	-.004	0	0
40	MP ALPHA1	Y	-.004	-.004	0	0
41	LADDER2	Y	-.003	-.003	0	0
42	LADDER1	Y	-.003	-.003	0	0
43	FACE3	Y	-.005	-.005	0	0
44	FACE2	Y	-.009	-.009	0	0
45	FACE1	Y	-.009	-.009	0	0
46	CORNER3	Y	-.005	-.005	0	0
47	CORNER2	Y	-.005	-.005	0	0
48	CORNER1	Y	-.005	-.005	0	0
49	RAIL6	Y	-.002	-.002	0	0
50	RAIL5	Y	-.006	-.006	0	0
51	RAIL4	Y	-.006	-.006	0	0
52	PLATE4	Y	-.002	-.002	0	0
53	PLATE5	Y	-.002	-.002	0	0
54	PLATE6	Y	-.002	-.002	0	0

Member Distributed Loads (BLC 5 : Ice Dead Load)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	CORNER1	Z	-.025	-.025	0	0
2	CORNER2	Z	-.025	-.025	0	0
3	CORNER3	Z	-.025	-.025	0	0
4	FACE1	Z	-.025	-.025	0	0
5	FACE2	Z	-.025	-.025	0	0
6	FACE3	Z	-.025	-.025	0	0
7	LADDER1	Z	-.015	-.015	0	0
8	LADDER2	Z	-.015	-.015	0	0
9	MP ALPHA1	Z	-.014	-.014	0	0
10	MP ALPHA2	Z	-.014	-.014	0	0
11	MP ALPHA3	Z	-.014	-.014	0	0
12	MP ALPHA4	Z	-.014	-.014	0	0
13	MP ALPHA5	Z	-.014	-.014	0	0
14	MP ALPHA6	Z	-.014	-.014	0	0
15	MP BETA1	Z	-.014	-.014	0	0
16	MP BETA2	Z	-.014	-.014	0	0
17	MP BETA3	Z	-.014	-.014	0	0
18	MP BETA4	Z	-.014	-.014	0	0
19	MP BETA5	Z	-.014	-.014	0	0

Member Distributed Loads (BLC 5 : Ice Dead Load) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
20	MP BETA6	Z	-.014	-.014	0	0
21	MP ALPHA7	Z	-.012	-.012	0	0
22	MP GAMMA2	Z	-.014	-.014	0	0
23	MP GAMMA3	Z	-.014	-.014	0	0
24	MP GAMMA4	Z	-.014	-.014	0	0
25	MP GAMMA5	Z	-.014	-.014	0	0
26	MP GAMMA6	Z	-.014	-.014	0	0
27	MP ALPHA8	Z	-.012	-.012	0	0
28	MP GAMMA1	Z	-.014	-.014	0	0
29	RUNG1	Z	-.009	-.009	0	0
30	RUNG2	Z	-.009	-.009	0	0
31	RUNG3	Z	-.009	-.009	0	0
32	RUNG4	Z	-.009	-.009	0	0
33	RUNG5	Z	-.009	-.009	0	0
34	RUNG6	Z	-.009	-.009	0	0
35	SUPPORT1	Z	-.015	-.015	0	0
36	SUPPORT2	Z	-.015	-.015	0	0
37	Standoff1	Z	-.028	-.028	0	0
38	Standoff2	Z	-.028	-.028	0	0
39	Standoff3	Z	-.028	-.028	0	0
40	Standoff4	Z	-.028	-.028	0	0
41	Standoff5	Z	-.028	-.028	0	0
42	Standoff6	Z	-.028	-.028	0	0
43	Rail1	Z	-.025	-.025	0	0
44	Rail2	Z	-.025	-.025	0	0
45	Rail3	Z	-.025	-.025	0	0
46	RAIL6	Z	-.025	-.025	0	0
47	RAIL5	Z	-.025	-.025	0	0
48	RAIL4	Z	-.025	-.025	0	0

Member Distributed Loads (BLC 6 : Wind Load (30))

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	Standoff6	Y	-.004	-.004	0	0
2	Standoff5	Y	-.004	-.004	0	0
3	Standoff4	Y	-.004	-.004	0	0
4	Standoff3	Y	-.004	-.004	0	0
5	Standoff2	Y	-.004	-.004	0	0
6	Standoff1	Y	-.004	-.004	0	0
7	SUPPORT2	Y	-.011	-.011	0	0
8	SUPPORT1	Y	-.011	-.011	0	0
9	Rail3	Y	-.003	-.003	0	0
10	Rail2	Y	-.011	-.011	0	0
11	Rail1	Y	-.011	-.011	0	0
12	RUNG6	Y	-.000866	-.000866	0	0
13	RUNG5	Y	-.000866	-.000866	0	0
14	RUNG4	Y	-.000866	-.000866	0	0
15	RUNG3	Y	-.000866	-.000866	0	0
16	RUNG2	Y	-.000866	-.000866	0	0
17	RUNG1	Y	-.000866	-.000866	0	0
18	PLATE3	Y	-.000866	-.000866	0	0
19	PLATE2	Y	-.000866	-.000866	0	0

Member Distributed Loads (BLC 6 : Wind Load (30)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
20	PLATE1	Y	-.000866	-.000866	0	0
21	MP GAMMA6	Y	-.01	-.01	0	0
22	MP GAMMA5	Y	-.01	-.01	0	0
23	MP GAMMA4	Y	-.01	-.01	0	0
24	MP GAMMA3	Y	-.01	-.01	0	0
25	MP GAMMA2	Y	-.01	-.01	0	0
26	MP GAMMA1	Y	-.01	-.01	0	0
27	MP BETA6	Y	-.01	-.01	0	0
28	MP BETA5	Y	-.01	-.01	0	0
29	MP BETA4	Y	-.01	-.01	0	0
30	MP BETA3	Y	-.01	-.01	0	0
31	MP BETA2	Y	-.01	-.01	0	0
32	MP BETA1	Y	-.01	-.01	0	0
33	MP ALPHA8	Y	-.01	-.01	0	0
34	MP ALPHA7	Y	-.01	-.01	0	0
35	MP ALPHA6	Y	-.01	-.01	0	0
36	MP ALPHA5	Y	-.01	-.01	0	0
37	MP ALPHA4	Y	-.01	-.01	0	0
38	MP ALPHA3	Y	-.01	-.01	0	0
39	MP ALPHA2	Y	-.01	-.01	0	0
40	MP ALPHA1	Y	-.01	-.01	0	0
41	LADDER2	Y	-.003	-.003	0	0
42	LADDER1	Y	-.003	-.003	0	0
43	FACE3	Y	-.009	-.009	0	0
44	FACE2	Y	-.009	-.009	0	0
45	FACE1	Y	-.009	-.009	0	0
46	CORNER3	Y	-.011	-.011	0	0
47	CORNER2	Y	-.011	-.011	0	0
48	CORNER1	Y	-.011	-.011	0	0
49	Standoff6	X	-.003	-.003	0	0
50	Standoff5	X	-.003	-.003	0	0
51	Standoff4	X	-.003	-.003	0	0
52	Standoff3	X	-.003	-.003	0	0
53	Standoff2	X	-.003	-.003	0	0
54	Standoff1	X	-.003	-.003	0	0
55	SUPPORT2	X	-.006	-.006	0	0
56	SUPPORT1	X	-.006	-.006	0	0
57	Rail3	X	-.002	-.002	0	0
58	Rail2	X	-.006	-.006	0	0
59	Rail1	X	-.006	-.006	0	0
60	RUNG6	X	-.0005	-.0005	0	0
61	RUNG5	X	-.0005	-.0005	0	0
62	RUNG4	X	-.0005	-.0005	0	0
63	RUNG3	X	-.0005	-.0005	0	0
64	RUNG2	X	-.0005	-.0005	0	0
65	RUNG1	X	-.0005	-.0005	0	0
66	PLATE3	X	-.0005	-.0005	0	0
67	PLATE2	X	-.0005	-.0005	0	0
68	PLATE1	X	-.0005	-.0005	0	0
69	MP GAMMA6	X	-.006	-.006	0	0
70	MP GAMMA5	X	-.006	-.006	0	0
71	MP GAMMA4	X	-.006	-.006	0	0

Member Distributed Loads (BLC 6 : Wind Load (30)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
72	MP GAMMA3	X	-.006	-.006	0	0
73	MP GAMMA2	X	-.006	-.006	0	0
74	MP GAMMA1	X	-.006	-.006	0	0
75	MP BETA6	X	-.006	-.006	0	0
76	MP BETA5	X	-.006	-.006	0	0
77	MP BETA4	X	-.006	-.006	0	0
78	MP BETA3	X	-.006	-.006	0	0
79	MP BETA2	X	-.006	-.006	0	0
80	MP BETA1	X	-.006	-.006	0	0
81	MP ALPHA8	X	-.006	-.006	0	0
82	MP ALPHA7	X	-.006	-.006	0	0
83	MP ALPHA6	X	-.006	-.006	0	0
84	MP ALPHA5	X	-.006	-.006	0	0
85	MP ALPHA4	X	-.006	-.006	0	0
86	MP ALPHA3	X	-.006	-.006	0	0
87	MP ALPHA2	X	-.006	-.006	0	0
88	MP ALPHA1	X	-.006	-.006	0	0
89	LADDER2	X	-.002	-.002	0	0
90	LADDER1	X	-.002	-.002	0	0
91	FACE3	X	-.005	-.005	0	0
92	FACE2	X	-.005	-.005	0	0
93	FACE1	X	-.005	-.005	0	0
94	CORNER3	X	-.006	-.006	0	0
95	CORNER2	X	-.006	-.006	0	0
96	CORNER1	X	-.006	-.006	0	0
97	RAIL6	Y	-.003	-.003	0	0
98	RAIL6	X	-.002	-.002	0	0
99	RAIL5	Y	-.011	-.011	0	0
100	RAIL5	X	-.006	-.006	0	0
101	RAIL4	Y	-.011	-.011	0	0
102	RAIL4	X	-.006	-.006	0	0
103	PLATE4	Y	-.000866	-.000866	0	0
104	PLATE4	X	-.0005	-.0005	0	0
105	PLATE5	Y	-.000866	-.000866	0	0
106	PLATE5	X	-.0005	-.0005	0	0
107	PLATE6	Y	-.000866	-.000866	0	0
108	PLATE6	X	-.0005	-.0005	0	0

Member Distributed Loads (BLC 7 : Ice Wind Load (30))

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	Standoff6	Y	-.003	-.003	0	0
2	Standoff5	Y	-.003	-.003	0	0
3	Standoff4	Y	-.003	-.003	0	0
4	Standoff3	Y	-.003	-.003	0	0
5	Standoff2	Y	-.003	-.003	0	0
6	Standoff1	Y	-.003	-.003	0	0
7	SUPPORT2	Y	-.004	-.004	0	0
8	SUPPORT1	Y	-.004	-.004	0	0
9	Rail3	Y	-.002	-.002	0	0
10	Rail2	Y	-.005	-.005	0	0
11	Rail1	Y	-.005	-.005	0	0

Member Distributed Loads (BLC 7 : Ice Wind Load (30)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
12	RUNG6	Y	-.000866	-.000866	0	0
13	RUNG5	Y	-.000866	-.000866	0	0
14	RUNG4	Y	-.000866	-.000866	0	0
15	RUNG3	Y	-.000866	-.000866	0	0
16	RUNG2	Y	-.000866	-.000866	0	0
17	RUNG1	Y	-.000866	-.000866	0	0
18	PLATE3	Y	-.002	-.002	0	0
19	PLATE2	Y	-.002	-.002	0	0
20	PLATE1	Y	-.002	-.002	0	0
21	MP GAMMA6	Y	-.003	-.003	0	0
22	MP GAMMA5	Y	-.003	-.003	0	0
23	MP GAMMA4	Y	-.003	-.003	0	0
24	MP GAMMA3	Y	-.003	-.003	0	0
25	MP GAMMA2	Y	-.003	-.003	0	0
26	MP GAMMA1	Y	-.003	-.003	0	0
27	MP BETA6	Y	-.003	-.003	0	0
28	MP BETA5	Y	-.003	-.003	0	0
29	MP BETA4	Y	-.003	-.003	0	0
30	MP BETA3	Y	-.003	-.003	0	0
31	MP BETA2	Y	-.003	-.003	0	0
32	MP BETA1	Y	-.003	-.003	0	0
33	MP ALPHA8	Y	-.003	-.003	0	0
34	MP ALPHA7	Y	-.003	-.003	0	0
35	MP ALPHA6	Y	-.003	-.003	0	0
36	MP ALPHA5	Y	-.003	-.003	0	0
37	MP ALPHA4	Y	-.003	-.003	0	0
38	MP ALPHA3	Y	-.003	-.003	0	0
39	MP ALPHA2	Y	-.003	-.003	0	0
40	MP ALPHA1	Y	-.003	-.003	0	0
41	LADDER2	Y	-.003	-.003	0	0
42	LADDER1	Y	-.003	-.003	0	0
43	FACE3	Y	-.004	-.004	0	0
44	FACE2	Y	-.008	-.008	0	0
45	FACE1	Y	-.008	-.008	0	0
46	CORNER3	Y	-.004	-.004	0	0
47	CORNER2	Y	-.004	-.004	0	0
48	CORNER1	Y	-.004	-.004	0	0
49	Standoff6	X	-.002	-.002	0	0
50	Standoff5	X	-.002	-.002	0	0
51	Standoff4	X	-.002	-.002	0	0
52	Standoff3	X	-.002	-.002	0	0
53	Standoff2	X	-.002	-.002	0	0
54	Standoff1	X	-.002	-.002	0	0
55	SUPPORT2	X	-.003	-.003	0	0
56	SUPPORT1	X	-.003	-.003	0	0
57	Rail3	X	-.001	-.001	0	0
58	Rail2	X	-.003	-.003	0	0
59	Rail1	X	-.003	-.003	0	0
60	RUNG6	X	-.0005	-.0005	0	0
61	RUNG5	X	-.0005	-.0005	0	0
62	RUNG4	X	-.0005	-.0005	0	0
63	RUNG3	X	-.0005	-.0005	0	0

Member Distributed Loads (BLC 7 : Ice Wind Load (30)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
64	RUNG2	X	-.0005	-.0005	0	0
65	RUNG1	X	-.0005	-.0005	0	0
66	PLATE3	X	-.001	-.001	0	0
67	PLATE2	X	-.001	-.001	0	0
68	PLATE1	X	-.001	-.001	0	0
69	MP GAMMA6	X	-.002	-.002	0	0
70	MP GAMMA5	X	-.002	-.002	0	0
71	MP GAMMA4	X	-.002	-.002	0	0
72	MP GAMMA3	X	-.002	-.002	0	0
73	MP GAMMA2	X	-.002	-.002	0	0
74	MP GAMMA1	X	-.002	-.002	0	0
75	MP BETA6	X	-.002	-.002	0	0
76	MP BETA5	X	-.002	-.002	0	0
77	MP BETA4	X	-.002	-.002	0	0
78	MP BETA3	X	-.002	-.002	0	0
79	MP BETA2	X	-.002	-.002	0	0
80	MP BETA1	X	-.002	-.002	0	0
81	MP ALPHA8	X	-.002	-.002	0	0
82	MP ALPHA7	X	-.002	-.002	0	0
83	MP ALPHA6	X	-.002	-.002	0	0
84	MP ALPHA5	X	-.002	-.002	0	0
85	MP ALPHA4	X	-.002	-.002	0	0
86	MP ALPHA3	X	-.002	-.002	0	0
87	MP ALPHA2	X	-.002	-.002	0	0
88	MP ALPHA1	X	-.002	-.002	0	0
89	LADDER2	X	-.002	-.002	0	0
90	LADDER1	X	-.002	-.002	0	0
91	FACE3	X	-.003	-.003	0	0
92	FACE2	X	-.004	-.004	0	0
93	FACE1	X	-.004	-.004	0	0
94	CORNER3	X	-.003	-.003	0	0
95	CORNER2	X	-.003	-.003	0	0
96	CORNER1	X	-.003	-.003	0	0
97	RAIL6	Y	-.002	-.002	0	0
98	RAIL6	X	-.001	-.001	0	0
99	RAIL5	Y	-.005	-.005	0	0
100	RAIL5	X	-.003	-.003	0	0
101	RAIL4	Y	-.005	-.005	0	0
102	RAIL4	X	-.003	-.003	0	0
103	PLATE4	Y	-.002	-.002	0	0
104	PLATE4	X	-.001	-.001	0	0
105	PLATE5	Y	-.002	-.002	0	0
106	PLATE5	X	-.001	-.001	0	0
107	PLATE6	Y	-.002	-.002	0	0
108	PLATE6	X	-.001	-.001	0	0

Member Distributed Loads (BLC 8 : Wind Load (60))

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	Standoff6	Y	-.003	-.003	0	0
2	Standoff5	Y	-.003	-.003	0	0
3	Standoff4	Y	-.003	-.003	0	0

Member Distributed Loads (BLC 8 : Wind Load (60)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
4	Standoff3	Y	-.003	-.003	0	0
5	Standoff2	Y	-.003	-.003	0	0
6	Standoff1	Y	-.003	-.003	0	0
7	SUPPORT2	Y	-.006	-.006	0	0
8	SUPPORT1	Y	-.006	-.006	0	0
9	Rail3	Y	-.002	-.002	0	0
10	Rail2	Y	-.006	-.006	0	0
11	Rail1	Y	-.006	-.006	0	0
12	RUNG6	Y	-.0005	-.0005	0	0
13	RUNG5	Y	-.0005	-.0005	0	0
14	RUNG4	Y	-.0005	-.0005	0	0
15	RUNG3	Y	-.0005	-.0005	0	0
16	RUNG2	Y	-.0005	-.0005	0	0
17	RUNG1	Y	-.0005	-.0005	0	0
18	PLATE3	Y	-.0005	-.0005	0	0
19	PLATE2	Y	-.0005	-.0005	0	0
20	PLATE1	Y	-.0005	-.0005	0	0
21	MP GAMMA6	Y	-.006	-.006	0	0
22	MP GAMMA5	Y	-.006	-.006	0	0
23	MP GAMMA4	Y	-.006	-.006	0	0
24	MP GAMMA3	Y	-.006	-.006	0	0
25	MP GAMMA2	Y	-.006	-.006	0	0
26	MP GAMMA1	Y	-.006	-.006	0	0
27	MP BETA6	Y	-.006	-.006	0	0
28	MP BETA5	Y	-.006	-.006	0	0
29	MP BETA4	Y	-.006	-.006	0	0
30	MP BETA3	Y	-.006	-.006	0	0
31	MP BETA2	Y	-.006	-.006	0	0
32	MP BETA1	Y	-.006	-.006	0	0
33	MP ALPHA8	Y	-.006	-.006	0	0
34	MP ALPHA7	Y	-.006	-.006	0	0
35	MP ALPHA6	Y	-.006	-.006	0	0
36	MP ALPHA5	Y	-.006	-.006	0	0
37	MP ALPHA4	Y	-.006	-.006	0	0
38	MP ALPHA3	Y	-.006	-.006	0	0
39	MP ALPHA2	Y	-.006	-.006	0	0
40	MP ALPHA1	Y	-.006	-.006	0	0
41	LADDER2	Y	-.002	-.002	0	0
42	LADDER1	Y	-.002	-.002	0	0
43	FACE3	Y	-.005	-.005	0	0
44	FACE2	Y	-.005	-.005	0	0
45	FACE1	Y	-.005	-.005	0	0
46	CORNER3	Y	-.006	-.006	0	0
47	CORNER2	Y	-.006	-.006	0	0
48	CORNER1	Y	-.006	-.006	0	0
49	Standoff6	X	-.004	-.004	0	0
50	Standoff5	X	-.004	-.004	0	0
51	Standoff4	X	-.004	-.004	0	0
52	Standoff3	X	-.004	-.004	0	0
53	Standoff2	X	-.004	-.004	0	0
54	Standoff1	X	-.004	-.004	0	0
55	SUPPORT2	X	-.011	-.011	0	0

Member Distributed Loads (BLC 8 : Wind Load (60)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
56	SUPPORT1	X	-.011	-.011	0	0
57	Rail3	X	-.003	-.003	0	0
58	Rail2	X	-.011	-.011	0	0
59	Rail1	X	-.011	-.011	0	0
60	RUNG6	X	-.000866	-.000866	0	0
61	RUNG5	X	-.000866	-.000866	0	0
62	RUNG4	X	-.000866	-.000866	0	0
63	RUNG3	X	-.000866	-.000866	0	0
64	RUNG2	X	-.000866	-.000866	0	0
65	RUNG1	X	-.000866	-.000866	0	0
66	PLATE3	X	-.000866	-.000866	0	0
67	PLATE2	X	-.000866	-.000866	0	0
68	PLATE1	X	-.000866	-.000866	0	0
69	MP GAMMA6	X	-.01	-.01	0	0
70	MP GAMMA5	X	-.01	-.01	0	0
71	MP GAMMA4	X	-.01	-.01	0	0
72	MP GAMMA3	X	-.01	-.01	0	0
73	MP GAMMA2	X	-.01	-.01	0	0
74	MP GAMMA1	X	-.01	-.01	0	0
75	MP BETA6	X	-.01	-.01	0	0
76	MP BETA5	X	-.01	-.01	0	0
77	MP BETA4	X	-.01	-.01	0	0
78	MP BETA3	X	-.01	-.01	0	0
79	MP BETA2	X	-.01	-.01	0	0
80	MP BETA1	X	-.01	-.01	0	0
81	MP ALPHA8	X	-.01	-.01	0	0
82	MP ALPHA7	X	-.01	-.01	0	0
83	MP ALPHA6	X	-.01	-.01	0	0
84	MP ALPHA5	X	-.01	-.01	0	0
85	MP ALPHA4	X	-.01	-.01	0	0
86	MP ALPHA3	X	-.01	-.01	0	0
87	MP ALPHA2	X	-.01	-.01	0	0
88	MP ALPHA1	X	-.01	-.01	0	0
89	LADDER2	X	-.003	-.003	0	0
90	LADDER1	X	-.003	-.003	0	0
91	FACE3	X	-.009	-.009	0	0
92	FACE2	X	-.009	-.009	0	0
93	FACE1	X	-.009	-.009	0	0
94	CORNER3	X	-.011	-.011	0	0
95	CORNER2	X	-.011	-.011	0	0
96	CORNER1	X	-.011	-.011	0	0
97	RAIL6	Y	-.002	-.002	0	0
98	RAIL6	X	-.003	-.003	0	0
99	RAIL5	Y	-.006	-.006	0	0
100	RAIL5	X	-.011	-.011	0	0
101	RAIL4	Y	-.006	-.006	0	0
102	RAIL4	X	-.011	-.011	0	0
103	PLATE4	Y	-.0005	-.0005	0	0
104	PLATE4	X	-.000866	-.000866	0	0
105	PLATE5	Y	-.0005	-.0005	0	0
106	PLATE5	X	-.000866	-.000866	0	0
107	PLATE6	Y	-.0005	-.0005	0	0

Member Distributed Loads (BLC 8 : Wind Load (60)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
108	PLATE6	X	-.000866	-.000866	0	0

Member Distributed Loads (BLC 9 : Ice Wind Load (60))

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	Standoff6	Y	-.002	-.002	0	0
2	Standoff5	Y	-.002	-.002	0	0
3	Standoff4	Y	-.002	-.002	0	0
4	Standoff3	Y	-.002	-.002	0	0
5	Standoff2	Y	-.002	-.002	0	0
6	Standoff1	Y	-.002	-.002	0	0
7	SUPPORT2	Y	-.003	-.003	0	0
8	SUPPORT1	Y	-.003	-.003	0	0
9	Rail3	Y	-.001	-.001	0	0
10	Rail2	Y	-.003	-.003	0	0
11	Rail1	Y	-.003	-.003	0	0
12	RUNG6	Y	-.0005	-.0005	0	0
13	RUNG5	Y	-.0005	-.0005	0	0
14	RUNG4	Y	-.0005	-.0005	0	0
15	RUNG3	Y	-.0005	-.0005	0	0
16	RUNG2	Y	-.0005	-.0005	0	0
17	RUNG1	Y	-.0005	-.0005	0	0
18	PLATE3	Y	-.001	-.001	0	0
19	PLATE2	Y	-.001	-.001	0	0
20	PLATE1	Y	-.001	-.001	0	0
21	MP GAMMA6	Y	-.002	-.002	0	0
22	MP GAMMA5	Y	-.002	-.002	0	0
23	MP GAMMA4	Y	-.002	-.002	0	0
24	MP GAMMA3	Y	-.002	-.002	0	0
25	MP GAMMA2	Y	-.002	-.002	0	0
26	MP GAMMA1	Y	-.002	-.002	0	0
27	MP BETA6	Y	-.002	-.002	0	0
28	MP BETA5	Y	-.002	-.002	0	0
29	MP BETA4	Y	-.002	-.002	0	0
30	MP BETA3	Y	-.002	-.002	0	0
31	MP BETA2	Y	-.002	-.002	0	0
32	MP BETA1	Y	-.002	-.002	0	0
33	MP ALPHA8	Y	-.002	-.002	0	0
34	MP ALPHA7	Y	-.002	-.002	0	0
35	MP ALPHA6	Y	-.002	-.002	0	0
36	MP ALPHA5	Y	-.002	-.002	0	0
37	MP ALPHA4	Y	-.002	-.002	0	0
38	MP ALPHA3	Y	-.002	-.002	0	0
39	MP ALPHA2	Y	-.002	-.002	0	0
40	MP ALPHA1	Y	-.002	-.002	0	0
41	LADDER2	Y	-.002	-.002	0	0
42	LADDER1	Y	-.002	-.002	0	0
43	FACE3	Y	-.003	-.003	0	0
44	FACE2	Y	-.004	-.004	0	0
45	FACE1	Y	-.004	-.004	0	0
46	CORNER3	Y	-.003	-.003	0	0
47	CORNER2	Y	-.003	-.003	0	0

Member Distributed Loads (BLC 9 : Ice Wind Load (60)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
48	CORNER1	Y	-.003	-.003	0	0
49	Standoff6	X	-.003	-.003	0	0
50	Standoff5	X	-.003	-.003	0	0
51	Standoff4	X	-.003	-.003	0	0
52	Standoff3	X	-.003	-.003	0	0
53	Standoff2	X	-.003	-.003	0	0
54	Standoff1	X	-.003	-.003	0	0
55	SUPPORT2	X	-.004	-.004	0	0
56	SUPPORT1	X	-.004	-.004	0	0
57	Rail3	X	-.002	-.002	0	0
58	Rail2	X	-.005	-.005	0	0
59	Rail1	X	-.005	-.005	0	0
60	RUNG6	X	-.000866	-.000866	0	0
61	RUNG5	X	-.000866	-.000866	0	0
62	RUNG4	X	-.000866	-.000866	0	0
63	RUNG3	X	-.000866	-.000866	0	0
64	RUNG2	X	-.000866	-.000866	0	0
65	RUNG1	X	-.000866	-.000866	0	0
66	PLATE3	X	-.002	-.002	0	0
67	PLATE2	X	-.002	-.002	0	0
68	PLATE1	X	-.002	-.002	0	0
69	MP GAMMA6	X	-.003	-.003	0	0
70	MP GAMMA5	X	-.003	-.003	0	0
71	MP GAMMA4	X	-.003	-.003	0	0
72	MP GAMMA3	X	-.003	-.003	0	0
73	MP GAMMA2	X	-.003	-.003	0	0
74	MP GAMMA1	X	-.003	-.003	0	0
75	MP BETA6	X	-.003	-.003	0	0
76	MP BETA5	X	-.003	-.003	0	0
77	MP BETA4	X	-.003	-.003	0	0
78	MP BETA3	X	-.003	-.003	0	0
79	MP BETA2	X	-.003	-.003	0	0
80	MP BETA1	X	-.003	-.003	0	0
81	MP ALPHA8	X	-.003	-.003	0	0
82	MP ALPHA7	X	-.003	-.003	0	0
83	MP ALPHA6	X	-.003	-.003	0	0
84	MP ALPHA5	X	-.003	-.003	0	0
85	MP ALPHA4	X	-.003	-.003	0	0
86	MP ALPHA3	X	-.003	-.003	0	0
87	MP ALPHA2	X	-.003	-.003	0	0
88	MP ALPHA1	X	-.003	-.003	0	0
89	LADDER2	X	-.003	-.003	0	0
90	LADDER1	X	-.003	-.003	0	0
91	FACE3	X	-.004	-.004	0	0
92	FACE2	X	-.008	-.008	0	0
93	FACE1	X	-.008	-.008	0	0
94	CORNER3	X	-.004	-.004	0	0
95	CORNER2	X	-.004	-.004	0	0
96	CORNER1	X	-.004	-.004	0	0
97	RAIL6	Y	-.001	-.001	0	0
98	RAIL6	X	-.002	-.002	0	0
99	RAIL5	Y	-.003	-.003	0	0

Member Distributed Loads (BLC 9 : Ice Wind Load (60)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
100	RAIL5	X	-.005	-.005	0	0
101	RAIL4	Y	-.003	-.003	0	0
102	RAIL4	X	-.005	-.005	0	0
103	PLATE4	Y	-.001	-.001	0	0
104	PLATE4	X	-.002	-.002	0	0
105	PLATE5	Y	-.001	-.001	0	0
106	PLATE5	X	-.002	-.002	0	0
107	PLATE6	Y	-.001	-.001	0	0
108	PLATE6	X	-.002	-.002	0	0

Member Distributed Loads (BLC 10 : Wind Load (90))

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	Standoff6	X	-.005	-.005	0	0
2	Standoff5	X	-.005	-.005	0	0
3	Standoff4	X	-.005	-.005	0	0
4	Standoff3	X	-.005	-.005	0	0
5	Standoff2	X	-.005	-.005	0	0
6	Standoff1	X	-.005	-.005	0	0
7	SUPPORT2	X	-.013	-.013	0	0
8	SUPPORT1	X	-.013	-.013	0	0
9	Rail3	X	-.004	-.004	0	0
10	Rail2	X	-.013	-.013	0	0
11	Rail1	X	-.013	-.013	0	0
12	RUNG6	X	-.001	-.001	0	0
13	RUNG5	X	-.001	-.001	0	0
14	RUNG4	X	-.001	-.001	0	0
15	RUNG3	X	-.001	-.001	0	0
16	RUNG2	X	-.001	-.001	0	0
17	RUNG1	X	-.001	-.001	0	0
18	PLATE3	X	-.001	-.001	0	0
19	PLATE2	X	-.001	-.001	0	0
20	PLATE1	X	-.001	-.001	0	0
21	MP GAMMA6	X	-.012	-.012	0	0
22	MP GAMMA5	X	-.012	-.012	0	0
23	MP GAMMA4	X	-.012	-.012	0	0
24	MP GAMMA3	X	-.012	-.012	0	0
25	MP GAMMA2	X	-.012	-.012	0	0
26	MP GAMMA1	X	-.012	-.012	0	0
27	MP BETA6	X	-.012	-.012	0	0
28	MP BETA5	X	-.012	-.012	0	0
29	MP BETA4	X	-.012	-.012	0	0
30	MP BETA3	X	-.012	-.012	0	0
31	MP BETA2	X	-.012	-.012	0	0
32	MP BETA1	X	-.012	-.012	0	0
33	MP ALPHA8	X	-.012	-.012	0	0
34	MP ALPHA7	X	-.012	-.012	0	0
35	MP ALPHA6	X	-.012	-.012	0	0
36	MP ALPHA5	X	-.012	-.012	0	0
37	MP ALPHA4	X	-.012	-.012	0	0
38	MP ALPHA3	X	-.012	-.012	0	0
39	MP ALPHA2	X	-.012	-.012	0	0

Member Distributed Loads (BLC 10 : Wind Load (90)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
40	MP ALPHA1	X	-.012	-.012	0	0
41	LADDER2	X	-.004	-.004	0	0
42	LADDER1	X	-.004	-.004	0	0
43	FACE3	X	-.01	-.01	0	0
44	FACE2	X	-.01	-.01	0	0
45	FACE1	X	-.01	-.01	0	0
46	CORNER3	X	-.013	-.013	0	0
47	CORNER2	X	-.013	-.013	0	0
48	CORNER1	X	-.013	-.013	0	0
49	RAIL6	X	-.004	-.004	0	0
50	RAIL5	X	-.013	-.013	0	0
51	RAIL4	X	-.013	-.013	0	0
52	PLATE4	X	-.001	-.001	0	0
53	PLATE5	X	-.001	-.001	0	0
54	PLATE6	X	-.001	-.001	0	0

Member Distributed Loads (BLC 11 : Ice Wind Load (90))

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	Standoff6	X	-.003	-.003	0	0
2	Standoff5	X	-.003	-.003	0	0
3	Standoff4	X	-.003	-.003	0	0
4	Standoff3	X	-.003	-.003	0	0
5	Standoff2	X	-.003	-.003	0	0
6	Standoff1	X	-.003	-.003	0	0
7	SUPPORT2	X	-.005	-.005	0	0
8	SUPPORT1	X	-.005	-.005	0	0
9	Rail3	X	-.002	-.002	0	0
10	Rail2	X	-.006	-.006	0	0
11	Rail1	X	-.006	-.006	0	0
12	RUNG6	X	-.001	-.001	0	0
13	RUNG5	X	-.001	-.001	0	0
14	RUNG4	X	-.001	-.001	0	0
15	RUNG3	X	-.001	-.001	0	0
16	RUNG2	X	-.001	-.001	0	0
17	RUNG1	X	-.001	-.001	0	0
18	PLATE3	X	-.002	-.002	0	0
19	PLATE2	X	-.002	-.002	0	0
20	PLATE1	X	-.002	-.002	0	0
21	MP GAMMA6	X	-.004	-.004	0	0
22	MP GAMMA5	X	-.004	-.004	0	0
23	MP GAMMA4	X	-.004	-.004	0	0
24	MP GAMMA3	X	-.004	-.004	0	0
25	MP GAMMA2	X	-.004	-.004	0	0
26	MP GAMMA1	X	-.004	-.004	0	0
27	MP BETA6	X	-.004	-.004	0	0
28	MP BETA5	X	-.004	-.004	0	0
29	MP BETA4	X	-.004	-.004	0	0
30	MP BETA3	X	-.004	-.004	0	0
31	MP BETA2	X	-.004	-.004	0	0
32	MP BETA1	X	-.004	-.004	0	0
33	MP ALPHA8	X	-.004	-.004	0	0

Member Distributed Loads (BLC 11 : Ice Wind Load (90)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
34	MP ALPHA7	X	-.004	-.004	0	0
35	MP ALPHA6	X	-.004	-.004	0	0
36	MP ALPHA5	X	-.004	-.004	0	0
37	MP ALPHA4	X	-.004	-.004	0	0
38	MP ALPHA3	X	-.004	-.004	0	0
39	MP ALPHA2	X	-.004	-.004	0	0
40	MP ALPHA1	X	-.004	-.004	0	0
41	LADDER2	X	-.003	-.003	0	0
42	LADDER1	X	-.003	-.003	0	0
43	FACE3	X	-.005	-.005	0	0
44	FACE2	X	-.009	-.009	0	0
45	FACE1	X	-.009	-.009	0	0
46	CORNER3	X	-.005	-.005	0	0
47	CORNER2	X	-.005	-.005	0	0
48	CORNER1	X	-.005	-.005	0	0
49	RAIL6	X	-.002	-.002	0	0
50	RAIL5	X	-.006	-.006	0	0
51	RAIL4	X	-.006	-.006	0	0
52	PLATE4	X	-.002	-.002	0	0
53	PLATE5	X	-.002	-.002	0	0
54	PLATE6	X	-.002	-.002	0	0

Member Distributed Loads (BLC 12 : Wind Load (120))

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	Standoff6	Y	.003	.003	0	0
2	Standoff5	Y	.003	.003	0	0
3	Standoff4	Y	.003	.003	0	0
4	Standoff3	Y	.003	.003	0	0
5	Standoff2	Y	.003	.003	0	0
6	Standoff1	Y	.003	.003	0	0
7	SUPPORT2	Y	.006	.006	0	0
8	SUPPORT1	Y	.006	.006	0	0
9	Rail3	Y	.002	.002	0	0
10	Rail2	Y	.006	.006	0	0
11	Rail1	Y	.006	.006	0	0
12	RUNG6	Y	.0005	.0005	0	0
13	RUNG5	Y	.0005	.0005	0	0
14	RUNG4	Y	.0005	.0005	0	0
15	RUNG3	Y	.0005	.0005	0	0
16	RUNG2	Y	.0005	.0005	0	0
17	RUNG1	Y	.0005	.0005	0	0
18	PLATE3	Y	.0005	.0005	0	0
19	PLATE2	Y	.0005	.0005	0	0
20	PLATE1	Y	.0005	.0005	0	0
21	MP GAMMA6	Y	.006	.006	0	0
22	MP GAMMA5	Y	.006	.006	0	0
23	MP GAMMA4	Y	.006	.006	0	0
24	MP GAMMA3	Y	.006	.006	0	0
25	MP GAMMA2	Y	.006	.006	0	0
26	MP GAMMA1	Y	.006	.006	0	0
27	MP BETA6	Y	.006	.006	0	0

Member Distributed Loads (BLC 12 : Wind Load (120)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
28	MP BETA5	Y	.006	.006	0	0
29	MP BETA4	Y	.006	.006	0	0
30	MP BETA3	Y	.006	.006	0	0
31	MP BETA2	Y	.006	.006	0	0
32	MP BETA1	Y	.006	.006	0	0
33	MP ALPHA8	Y	.006	.006	0	0
34	MP ALPHA7	Y	.006	.006	0	0
35	MP ALPHA6	Y	.006	.006	0	0
36	MP ALPHA5	Y	.006	.006	0	0
37	MP ALPHA4	Y	.006	.006	0	0
38	MP ALPHA3	Y	.006	.006	0	0
39	MP ALPHA2	Y	.006	.006	0	0
40	MP ALPHA1	Y	.006	.006	0	0
41	LADDER2	Y	.002	.002	0	0
42	LADDER1	Y	.002	.002	0	0
43	FACE3	Y	.005	.005	0	0
44	FACE2	Y	.005	.005	0	0
45	FACE1	Y	.005	.005	0	0
46	CORNER3	Y	.006	.006	0	0
47	CORNER2	Y	.006	.006	0	0
48	CORNER1	Y	.006	.006	0	0
49	Standoff6	X	-.004	-.004	0	0
50	Standoff5	X	-.004	-.004	0	0
51	Standoff4	X	-.004	-.004	0	0
52	Standoff3	X	-.004	-.004	0	0
53	Standoff2	X	-.004	-.004	0	0
54	Standoff1	X	-.004	-.004	0	0
55	SUPPORT2	X	-.011	-.011	0	0
56	SUPPORT1	X	-.011	-.011	0	0
57	Rail3	X	-.003	-.003	0	0
58	Rail2	X	-.011	-.011	0	0
59	Rail1	X	-.011	-.011	0	0
60	RUNG6	X	-.000866	-.000866	0	0
61	RUNG5	X	-.000866	-.000866	0	0
62	RUNG4	X	-.000866	-.000866	0	0
63	RUNG3	X	-.000866	-.000866	0	0
64	RUNG2	X	-.000866	-.000866	0	0
65	RUNG1	X	-.000866	-.000866	0	0
66	PLATE3	X	-.000866	-.000866	0	0
67	PLATE2	X	-.000866	-.000866	0	0
68	PLATE1	X	-.000866	-.000866	0	0
69	MP GAMMA6	X	-.01	-.01	0	0
70	MP GAMMA5	X	-.01	-.01	0	0
71	MP GAMMA4	X	-.01	-.01	0	0
72	MP GAMMA3	X	-.01	-.01	0	0
73	MP GAMMA2	X	-.01	-.01	0	0
74	MP GAMMA1	X	-.01	-.01	0	0
75	MP BETA6	X	-.01	-.01	0	0
76	MP BETA5	X	-.01	-.01	0	0
77	MP BETA4	X	-.01	-.01	0	0
78	MP BETA3	X	-.01	-.01	0	0
79	MP BETA2	X	-.01	-.01	0	0

Member Distributed Loads (BLC 12 : Wind Load (120)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
80	MP BETA1	X	-.01	-.01	0	0
81	MP ALPHA8	X	-.01	-.01	0	0
82	MP ALPHA7	X	-.01	-.01	0	0
83	MP ALPHA6	X	-.01	-.01	0	0
84	MP ALPHA5	X	-.01	-.01	0	0
85	MP ALPHA4	X	-.01	-.01	0	0
86	MP ALPHA3	X	-.01	-.01	0	0
87	MP ALPHA2	X	-.01	-.01	0	0
88	MP ALPHA1	X	-.01	-.01	0	0
89	LADDER2	X	-.003	-.003	0	0
90	LADDER1	X	-.003	-.003	0	0
91	FACE3	X	-.009	-.009	0	0
92	FACE2	X	-.009	-.009	0	0
93	FACE1	X	-.009	-.009	0	0
94	CORNER3	X	-.011	-.011	0	0
95	CORNER2	X	-.011	-.011	0	0
96	CORNER1	X	-.011	-.011	0	0
97	RAIL6	Y	.002	.002	0	0
98	RAIL6	X	-.003	-.003	0	0
99	RAIL5	Y	.006	.006	0	0
100	RAIL5	X	-.011	-.011	0	0
101	RAIL4	Y	.006	.006	0	0
102	RAIL4	X	-.011	-.011	0	0
103	PLATE4	Y	.0005	.0005	0	0
104	PLATE4	X	-.000866	-.000866	0	0
105	PLATE5	Y	.0005	.0005	0	0
106	PLATE5	X	-.000866	-.000866	0	0
107	PLATE6	Y	.0005	.0005	0	0
108	PLATE6	X	-.000866	-.000866	0	0

Member Distributed Loads (BLC 13 : Ice Wind Load (120))

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	Standoff6	Y	.002	.002	0	0
2	Standoff5	Y	.002	.002	0	0
3	Standoff4	Y	.002	.002	0	0
4	Standoff3	Y	.002	.002	0	0
5	Standoff2	Y	.002	.002	0	0
6	Standoff1	Y	.002	.002	0	0
7	SUPPORT2	Y	.003	.003	0	0
8	SUPPORT1	Y	.003	.003	0	0
9	Rail3	Y	.001	.001	0	0
10	Rail2	Y	.003	.003	0	0
11	Rail1	Y	.003	.003	0	0
12	RUNG6	Y	.0005	.0005	0	0
13	RUNG5	Y	.0005	.0005	0	0
14	RUNG4	Y	.0005	.0005	0	0
15	RUNG3	Y	.0005	.0005	0	0
16	RUNG2	Y	.0005	.0005	0	0
17	RUNG1	Y	.0005	.0005	0	0
18	PLATE3	Y	.001	.001	0	0
19	PLATE2	Y	.001	.001	0	0

Member Distributed Loads (BLC 13 : Ice Wind Load (120)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
20	PLATE1	Y	.001	.001	0	0
21	MP GAMMA6	Y	.002	.002	0	0
22	MP GAMMA5	Y	.002	.002	0	0
23	MP GAMMA4	Y	.002	.002	0	0
24	MP GAMMA3	Y	.002	.002	0	0
25	MP GAMMA2	Y	.002	.002	0	0
26	MP GAMMA1	Y	.002	.002	0	0
27	MP BETA6	Y	.002	.002	0	0
28	MP BETA5	Y	.002	.002	0	0
29	MP BETA4	Y	.002	.002	0	0
30	MP BETA3	Y	.002	.002	0	0
31	MP BETA2	Y	.002	.002	0	0
32	MP BETA1	Y	.002	.002	0	0
33	MP ALPHA8	Y	.002	.002	0	0
34	MP ALPHA7	Y	.002	.002	0	0
35	MP ALPHA6	Y	.002	.002	0	0
36	MP ALPHA5	Y	.002	.002	0	0
37	MP ALPHA4	Y	.002	.002	0	0
38	MP ALPHA3	Y	.002	.002	0	0
39	MP ALPHA2	Y	.002	.002	0	0
40	MP ALPHA1	Y	.002	.002	0	0
41	LADDER2	Y	.002	.002	0	0
42	LADDER1	Y	.002	.002	0	0
43	FACE3	Y	.003	.003	0	0
44	FACE2	Y	.004	.004	0	0
45	FACE1	Y	.004	.004	0	0
46	CORNER3	Y	.003	.003	0	0
47	CORNER2	Y	.003	.003	0	0
48	CORNER1	Y	.003	.003	0	0
49	Standoff6	X	-.003	-.003	0	0
50	Standoff5	X	-.003	-.003	0	0
51	Standoff4	X	-.003	-.003	0	0
52	Standoff3	X	-.003	-.003	0	0
53	Standoff2	X	-.003	-.003	0	0
54	Standoff1	X	-.003	-.003	0	0
55	SUPPORT2	X	-.004	-.004	0	0
56	SUPPORT1	X	-.004	-.004	0	0
57	Rail3	X	-.002	-.002	0	0
58	Rail2	X	-.005	-.005	0	0
59	Rail1	X	-.005	-.005	0	0
60	RUNG6	X	-.000866	-.000866	0	0
61	RUNG5	X	-.000866	-.000866	0	0
62	RUNG4	X	-.000866	-.000866	0	0
63	RUNG3	X	-.000866	-.000866	0	0
64	RUNG2	X	-.000866	-.000866	0	0
65	RUNG1	X	-.000866	-.000866	0	0
66	PLATE3	X	-.002	-.002	0	0
67	PLATE2	X	-.002	-.002	0	0
68	PLATE1	X	-.002	-.002	0	0
69	MP GAMMA6	X	-.003	-.003	0	0
70	MP GAMMA5	X	-.003	-.003	0	0
71	MP GAMMA4	X	-.003	-.003	0	0

Member Distributed Loads (BLC 13 : Ice Wind Load (120)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
72	MP GAMMA3	X	-.003	-.003	0	0
73	MP GAMMA2	X	-.003	-.003	0	0
74	MP GAMMA1	X	-.003	-.003	0	0
75	MP BETA6	X	-.003	-.003	0	0
76	MP BETA5	X	-.003	-.003	0	0
77	MP BETA4	X	-.003	-.003	0	0
78	MP BETA3	X	-.003	-.003	0	0
79	MP BETA2	X	-.003	-.003	0	0
80	MP BETA1	X	-.003	-.003	0	0
81	MP ALPHA8	X	-.003	-.003	0	0
82	MP ALPHA7	X	-.003	-.003	0	0
83	MP ALPHA6	X	-.003	-.003	0	0
84	MP ALPHA5	X	-.003	-.003	0	0
85	MP ALPHA4	X	-.003	-.003	0	0
86	MP ALPHA3	X	-.003	-.003	0	0
87	MP ALPHA2	X	-.003	-.003	0	0
88	MP ALPHA1	X	-.003	-.003	0	0
89	LADDER2	X	-.003	-.003	0	0
90	LADDER1	X	-.003	-.003	0	0
91	FACE3	X	-.004	-.004	0	0
92	FACE2	X	-.008	-.008	0	0
93	FACE1	X	-.008	-.008	0	0
94	CORNER3	X	-.004	-.004	0	0
95	CORNER2	X	-.004	-.004	0	0
96	CORNER1	X	-.004	-.004	0	0
97	RAIL6	Y	.001	.001	0	0
98	RAIL6	X	-.002	-.002	0	0
99	RAIL5	Y	.003	.003	0	0
100	RAIL5	X	-.005	-.005	0	0
101	RAIL4	Y	.003	.003	0	0
102	RAIL4	X	-.005	-.005	0	0
103	PLATE4	Y	.001	.001	0	0
104	PLATE4	X	-.002	-.002	0	0
105	PLATE5	Y	.001	.001	0	0
106	PLATE5	X	-.002	-.002	0	0
107	PLATE6	Y	.001	.001	0	0
108	PLATE6	X	-.002	-.002	0	0

Member Distributed Loads (BLC 14 : Wind Load (150))

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	Standoff6	Y	.004	.004	0	0
2	Standoff5	Y	.004	.004	0	0
3	Standoff4	Y	.004	.004	0	0
4	Standoff3	Y	.004	.004	0	0
5	Standoff2	Y	.004	.004	0	0
6	Standoff1	Y	.004	.004	0	0
7	SUPPORT2	Y	.011	.011	0	0
8	SUPPORT1	Y	.011	.011	0	0
9	Rail3	Y	.003	.003	0	0
10	Rail2	Y	.011	.011	0	0
11	Rail1	Y	.011	.011	0	0

Member Distributed Loads (BLC 14 : Wind Load (150)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
12	RUNG6	Y	.000866	.000866	0	0
13	RUNG5	Y	.000866	.000866	0	0
14	RUNG4	Y	.000866	.000866	0	0
15	RUNG3	Y	.000866	.000866	0	0
16	RUNG2	Y	.000866	.000866	0	0
17	RUNG1	Y	.000866	.000866	0	0
18	PLATE3	Y	.000866	.000866	0	0
19	PLATE2	Y	.000866	.000866	0	0
20	PLATE1	Y	.000866	.000866	0	0
21	MP GAMMA6	Y	.01	.01	0	0
22	MP GAMMA5	Y	.01	.01	0	0
23	MP GAMMA4	Y	.01	.01	0	0
24	MP GAMMA3	Y	.01	.01	0	0
25	MP GAMMA2	Y	.01	.01	0	0
26	MP GAMMA1	Y	.01	.01	0	0
27	MP BETA6	Y	.01	.01	0	0
28	MP BETA5	Y	.01	.01	0	0
29	MP BETA4	Y	.01	.01	0	0
30	MP BETA3	Y	.01	.01	0	0
31	MP BETA2	Y	.01	.01	0	0
32	MP BETA1	Y	.01	.01	0	0
33	MP ALPHA8	Y	.01	.01	0	0
34	MP ALPHA7	Y	.01	.01	0	0
35	MP ALPHA6	Y	.01	.01	0	0
36	MP ALPHA5	Y	.01	.01	0	0
37	MP ALPHA4	Y	.01	.01	0	0
38	MP ALPHA3	Y	.01	.01	0	0
39	MP ALPHA2	Y	.01	.01	0	0
40	MP ALPHA1	Y	.01	.01	0	0
41	LADDER2	Y	.003	.003	0	0
42	LADDER1	Y	.003	.003	0	0
43	FACE3	Y	.009	.009	0	0
44	FACE2	Y	.009	.009	0	0
45	FACE1	Y	.009	.009	0	0
46	CORNER3	Y	.011	.011	0	0
47	CORNER2	Y	.011	.011	0	0
48	CORNER1	Y	.011	.011	0	0
49	Standoff6	X	-.003	-.003	0	0
50	Standoff5	X	-.003	-.003	0	0
51	Standoff4	X	-.003	-.003	0	0
52	Standoff3	X	-.003	-.003	0	0
53	Standoff2	X	-.003	-.003	0	0
54	Standoff1	X	-.003	-.003	0	0
55	SUPPORT2	X	-.006	-.006	0	0
56	SUPPORT1	X	-.006	-.006	0	0
57	Rail3	X	-.002	-.002	0	0
58	Rail2	X	-.006	-.006	0	0
59	Rail1	X	-.006	-.006	0	0
60	RUNG6	X	-.0005	-.0005	0	0
61	RUNG5	X	-.0005	-.0005	0	0
62	RUNG4	X	-.0005	-.0005	0	0
63	RUNG3	X	-.0005	-.0005	0	0

Member Distributed Loads (BLC 14 : Wind Load (150)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
64	RUNG2	X	-.0005	-.0005	0	0
65	RUNG1	X	-.0005	-.0005	0	0
66	PLATE3	X	-.0005	-.0005	0	0
67	PLATE2	X	-.0005	-.0005	0	0
68	PLATE1	X	-.0005	-.0005	0	0
69	MP GAMMA6	X	-.006	-.006	0	0
70	MP GAMMA5	X	-.006	-.006	0	0
71	MP GAMMA4	X	-.006	-.006	0	0
72	MP GAMMA3	X	-.006	-.006	0	0
73	MP GAMMA2	X	-.006	-.006	0	0
74	MP GAMMA1	X	-.006	-.006	0	0
75	MP BETA6	X	-.006	-.006	0	0
76	MP BETA5	X	-.006	-.006	0	0
77	MP BETA4	X	-.006	-.006	0	0
78	MP BETA3	X	-.006	-.006	0	0
79	MP BETA2	X	-.006	-.006	0	0
80	MP BETA1	X	-.006	-.006	0	0
81	MP ALPHA8	X	-.006	-.006	0	0
82	MP ALPHA7	X	-.006	-.006	0	0
83	MP ALPHA6	X	-.006	-.006	0	0
84	MP ALPHA5	X	-.006	-.006	0	0
85	MP ALPHA4	X	-.006	-.006	0	0
86	MP ALPHA3	X	-.006	-.006	0	0
87	MP ALPHA2	X	-.006	-.006	0	0
88	MP ALPHA1	X	-.006	-.006	0	0
89	LADDER2	X	-.002	-.002	0	0
90	LADDER1	X	-.002	-.002	0	0
91	FACE3	X	-.005	-.005	0	0
92	FACE2	X	-.005	-.005	0	0
93	FACE1	X	-.005	-.005	0	0
94	CORNER3	X	-.006	-.006	0	0
95	CORNER2	X	-.006	-.006	0	0
96	CORNER1	X	-.006	-.006	0	0
97	RAIL6	Y	.003	.003	0	0
98	RAIL6	X	-.002	-.002	0	0
99	RAIL5	Y	.011	.011	0	0
100	RAIL5	X	-.006	-.006	0	0
101	RAIL4	Y	.011	.011	0	0
102	RAIL4	X	-.006	-.006	0	0
103	PLATE4	Y	.000866	.000866	0	0
104	PLATE4	X	-.0005	-.0005	0	0
105	PLATE5	Y	.000866	.000866	0	0
106	PLATE5	X	-.0005	-.0005	0	0
107	PLATE6	Y	.000866	.000866	0	0
108	PLATE6	X	-.0005	-.0005	0	0

Member Distributed Loads (BLC 15 : Ice Wind Load (150))

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	Standoff6	Y	.003	.003	0	0
2	Standoff5	Y	.003	.003	0	0
3	Standoff4	Y	.003	.003	0	0

Member Distributed Loads (BLC 15 : Ice Wind Load (150)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
4	Standoff3	Y	.003	.003	0	0
5	Standoff2	Y	.003	.003	0	0
6	Standoff1	Y	.003	.003	0	0
7	SUPPORT2	Y	.004	.004	0	0
8	SUPPORT1	Y	.004	.004	0	0
9	Rail3	Y	.002	.002	0	0
10	Rail2	Y	.005	.005	0	0
11	Rail1	Y	.005	.005	0	0
12	RUNG6	Y	.000866	.000866	0	0
13	RUNG5	Y	.000866	.000866	0	0
14	RUNG4	Y	.000866	.000866	0	0
15	RUNG3	Y	.000866	.000866	0	0
16	RUNG2	Y	.000866	.000866	0	0
17	RUNG1	Y	.000866	.000866	0	0
18	PLATE3	Y	.002	.002	0	0
19	PLATE2	Y	.002	.002	0	0
20	PLATE1	Y	.002	.002	0	0
21	MP GAMMA6	Y	.003	.003	0	0
22	MP GAMMA5	Y	.003	.003	0	0
23	MP GAMMA4	Y	.003	.003	0	0
24	MP GAMMA3	Y	.003	.003	0	0
25	MP GAMMA2	Y	.003	.003	0	0
26	MP GAMMA1	Y	.003	.003	0	0
27	MP BETA6	Y	.003	.003	0	0
28	MP BETA5	Y	.003	.003	0	0
29	MP BETA4	Y	.003	.003	0	0
30	MP BETA3	Y	.003	.003	0	0
31	MP BETA2	Y	.003	.003	0	0
32	MP BETA1	Y	.003	.003	0	0
33	MP ALPHA8	Y	.003	.003	0	0
34	MP ALPHA7	Y	.003	.003	0	0
35	MP ALPHA6	Y	.003	.003	0	0
36	MP ALPHA5	Y	.003	.003	0	0
37	MP ALPHA4	Y	.003	.003	0	0
38	MP ALPHA3	Y	.003	.003	0	0
39	MP ALPHA2	Y	.003	.003	0	0
40	MP ALPHA1	Y	.003	.003	0	0
41	LADDER2	Y	.003	.003	0	0
42	LADDER1	Y	.003	.003	0	0
43	FACE3	Y	.004	.004	0	0
44	FACE2	Y	.008	.008	0	0
45	FACE1	Y	.008	.008	0	0
46	CORNER3	Y	.004	.004	0	0
47	CORNER2	Y	.004	.004	0	0
48	CORNER1	Y	.004	.004	0	0
49	Standoff6	X	-.002	-.002	0	0
50	Standoff5	X	-.002	-.002	0	0
51	Standoff4	X	-.002	-.002	0	0
52	Standoff3	X	-.002	-.002	0	0
53	Standoff2	X	-.002	-.002	0	0
54	Standoff1	X	-.002	-.002	0	0
55	SUPPORT2	X	-.003	-.003	0	0

Member Distributed Loads (BLC 15 : Ice Wind Load (150)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
56	SUPPORT1	X	-.003	-.003	0	0
57	Rail3	X	-.001	-.001	0	0
58	Rail2	X	-.003	-.003	0	0
59	Rail1	X	-.003	-.003	0	0
60	RUNG6	X	-.0005	-.0005	0	0
61	RUNG5	X	-.0005	-.0005	0	0
62	RUNG4	X	-.0005	-.0005	0	0
63	RUNG3	X	-.0005	-.0005	0	0
64	RUNG2	X	-.0005	-.0005	0	0
65	RUNG1	X	-.0005	-.0005	0	0
66	PLATE3	X	-.001	-.001	0	0
67	PLATE2	X	-.001	-.001	0	0
68	PLATE1	X	-.001	-.001	0	0
69	MP GAMMA6	X	-.002	-.002	0	0
70	MP GAMMA5	X	-.002	-.002	0	0
71	MP GAMMA4	X	-.002	-.002	0	0
72	MP GAMMA3	X	-.002	-.002	0	0
73	MP GAMMA2	X	-.002	-.002	0	0
74	MP GAMMA1	X	-.002	-.002	0	0
75	MP BETA6	X	-.002	-.002	0	0
76	MP BETA5	X	-.002	-.002	0	0
77	MP BETA4	X	-.002	-.002	0	0
78	MP BETA3	X	-.002	-.002	0	0
79	MP BETA2	X	-.002	-.002	0	0
80	MP BETA1	X	-.002	-.002	0	0
81	MP ALPHA8	X	-.002	-.002	0	0
82	MP ALPHA7	X	-.002	-.002	0	0
83	MP ALPHA6	X	-.002	-.002	0	0
84	MP ALPHA5	X	-.002	-.002	0	0
85	MP ALPHA4	X	-.002	-.002	0	0
86	MP ALPHA3	X	-.002	-.002	0	0
87	MP ALPHA2	X	-.002	-.002	0	0
88	MP ALPHA1	X	-.002	-.002	0	0
89	LADDER2	X	-.002	-.002	0	0
90	LADDER1	X	-.002	-.002	0	0
91	FACE3	X	-.003	-.003	0	0
92	FACE2	X	-.004	-.004	0	0
93	FACE1	X	-.004	-.004	0	0
94	CORNER3	X	-.003	-.003	0	0
95	CORNER2	X	-.003	-.003	0	0
96	CORNER1	X	-.003	-.003	0	0
97	RAIL6	Y	.002	.002	0	0
98	RAIL6	X	-.001	-.001	0	0
99	RAIL5	Y	.005	.005	0	0
100	RAIL5	X	-.003	-.003	0	0
101	RAIL4	Y	.005	.005	0	0
102	RAIL4	X	-.003	-.003	0	0
103	PLATE4	Y	.002	.002	0	0
104	PLATE4	X	-.001	-.001	0	0
105	PLATE5	Y	.002	.002	0	0
106	PLATE5	X	-.001	-.001	0	0
107	PLATE6	Y	.002	.002	0	0

Member Distributed Loads (BLC 15 : Ice Wind Load (150)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
108	PLATE6	X	-.001	-.001	0	0

Member Distributed Loads (BLC 16 : Wind Load (180))

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	Standoff6	Y	.005	.005	0	0
2	Standoff5	Y	.005	.005	0	0
3	Standoff4	Y	.005	.005	0	0
4	Standoff3	Y	.005	.005	0	0
5	Standoff2	Y	.005	.005	0	0
6	Standoff1	Y	.005	.005	0	0
7	SUPPORT2	Y	.013	.013	0	0
8	SUPPORT1	Y	.013	.013	0	0
9	Rail3	Y	.004	.004	0	0
10	Rail2	Y	.013	.013	0	0
11	Rail1	Y	.013	.013	0	0
12	RUNG6	Y	.001	.001	0	0
13	RUNG5	Y	.001	.001	0	0
14	RUNG4	Y	.001	.001	0	0
15	RUNG3	Y	.001	.001	0	0
16	RUNG2	Y	.001	.001	0	0
17	RUNG1	Y	.001	.001	0	0
18	PLATE3	Y	.001	.001	0	0
19	PLATE2	Y	.001	.001	0	0
20	PLATE1	Y	.001	.001	0	0
21	MP GAMMA6	Y	.012	.012	0	0
22	MP GAMMA5	Y	.012	.012	0	0
23	MP GAMMA4	Y	.012	.012	0	0
24	MP GAMMA3	Y	.012	.012	0	0
25	MP GAMMA2	Y	.012	.012	0	0
26	MP GAMMA1	Y	.012	.012	0	0
27	MP BETA6	Y	.012	.012	0	0
28	MP BETA5	Y	.012	.012	0	0
29	MP BETA4	Y	.012	.012	0	0
30	MP BETA3	Y	.012	.012	0	0
31	MP BETA2	Y	.012	.012	0	0
32	MP BETA1	Y	.012	.012	0	0
33	MP ALPHA8	Y	.012	.012	0	0
34	MP ALPHA7	Y	.012	.012	0	0
35	MP ALPHA6	Y	.012	.012	0	0
36	MP ALPHA5	Y	.012	.012	0	0
37	MP ALPHA4	Y	.012	.012	0	0
38	MP ALPHA3	Y	.012	.012	0	0
39	MP ALPHA2	Y	.012	.012	0	0
40	MP ALPHA1	Y	.012	.012	0	0
41	LADDER2	Y	.004	.004	0	0
42	LADDER1	Y	.004	.004	0	0
43	FACE3	Y	.01	.01	0	0
44	FACE2	Y	.01	.01	0	0
45	FACE1	Y	.01	.01	0	0
46	CORNER3	Y	.013	.013	0	0
47	CORNER2	Y	.013	.013	0	0

Member Distributed Loads (BLC 16 : Wind Load (180)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
48	CORNER1	Y	.013	.013	0	0
49	RAIL6	Y	.004	.004	0	0
50	RAIL5	Y	.013	.013	0	0
51	RAIL4	Y	.013	.013	0	0
52	PLATE4	Y	.001	.001	0	0
53	PLATE5	Y	.001	.001	0	0
54	PLATE6	Y	.001	.001	0	0

Member Distributed Loads (BLC 17 : Ice Wind Load (180))

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	Standoff6	Y	.003	.003	0	0
2	Standoff5	Y	.003	.003	0	0
3	Standoff4	Y	.003	.003	0	0
4	Standoff3	Y	.003	.003	0	0
5	Standoff2	Y	.003	.003	0	0
6	Standoff1	Y	.003	.003	0	0
7	SUPPORT2	Y	.005	.005	0	0
8	SUPPORT1	Y	.005	.005	0	0
9	Rail3	Y	.002	.002	0	0
10	Rail2	Y	.006	.006	0	0
11	Rail1	Y	.006	.006	0	0
12	RUNG6	Y	.001	.001	0	0
13	RUNG5	Y	.001	.001	0	0
14	RUNG4	Y	.001	.001	0	0
15	RUNG3	Y	.001	.001	0	0
16	RUNG2	Y	.001	.001	0	0
17	RUNG1	Y	.001	.001	0	0
18	PLATE3	Y	.002	.002	0	0
19	PLATE2	Y	.002	.002	0	0
20	PLATE1	Y	.002	.002	0	0
21	MP GAMMA6	Y	.004	.004	0	0
22	MP GAMMA5	Y	.004	.004	0	0
23	MP GAMMA4	Y	.004	.004	0	0
24	MP GAMMA3	Y	.004	.004	0	0
25	MP GAMMA2	Y	.004	.004	0	0
26	MP GAMMA1	Y	.004	.004	0	0
27	MP BETA6	Y	.004	.004	0	0
28	MP BETA5	Y	.004	.004	0	0
29	MP BETA4	Y	.004	.004	0	0
30	MP BETA3	Y	.004	.004	0	0
31	MP BETA2	Y	.004	.004	0	0
32	MP BETA1	Y	.004	.004	0	0
33	MP ALPHA8	Y	.004	.004	0	0
34	MP ALPHA7	Y	.004	.004	0	0
35	MP ALPHA6	Y	.004	.004	0	0
36	MP ALPHA5	Y	.004	.004	0	0
37	MP ALPHA4	Y	.004	.004	0	0
38	MP ALPHA3	Y	.004	.004	0	0
39	MP ALPHA2	Y	.004	.004	0	0
40	MP ALPHA1	Y	.004	.004	0	0
41	LADDER2	Y	.003	.003	0	0

Member Distributed Loads (BLC 17 : Ice Wind Load (180)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
42	LADDER1	Y	.003	.003	0	0
43	FACE3	Y	.005	.005	0	0
44	FACE2	Y	.009	.009	0	0
45	FACE1	Y	.009	.009	0	0
46	CORNER3	Y	.005	.005	0	0
47	CORNER2	Y	.005	.005	0	0
48	CORNER1	Y	.005	.005	0	0
49	RAIL6	Y	.002	.002	0	0
50	RAIL5	Y	.006	.006	0	0
51	RAIL4	Y	.006	.006	0	0
52	PLATE4	Y	.002	.002	0	0
53	PLATE5	Y	.002	.002	0	0
54	PLATE6	Y	.002	.002	0	0

Member Distributed Loads (BLC 18 : Wind Load (210))

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	Standoff6	Y	.004	.004	0	0
2	Standoff5	Y	.004	.004	0	0
3	Standoff4	Y	.004	.004	0	0
4	Standoff3	Y	.004	.004	0	0
5	Standoff2	Y	.004	.004	0	0
6	Standoff1	Y	.004	.004	0	0
7	SUPPORT2	Y	.011	.011	0	0
8	SUPPORT1	Y	.011	.011	0	0
9	Rail3	Y	.003	.003	0	0
10	Rail2	Y	.011	.011	0	0
11	Rail1	Y	.011	.011	0	0
12	RUNG6	Y	.000866	.000866	0	0
13	RUNG5	Y	.000866	.000866	0	0
14	RUNG4	Y	.000866	.000866	0	0
15	RUNG3	Y	.000866	.000866	0	0
16	RUNG2	Y	.000866	.000866	0	0
17	RUNG1	Y	.000866	.000866	0	0
18	PLATE3	Y	.000866	.000866	0	0
19	PLATE2	Y	.000866	.000866	0	0
20	PLATE1	Y	.000866	.000866	0	0
21	MP GAMMA6	Y	.01	.01	0	0
22	MP GAMMA5	Y	.01	.01	0	0
23	MP GAMMA4	Y	.01	.01	0	0
24	MP GAMMA3	Y	.01	.01	0	0
25	MP GAMMA2	Y	.01	.01	0	0
26	MP GAMMA1	Y	.01	.01	0	0
27	MP BETA6	Y	.01	.01	0	0
28	MP BETA5	Y	.01	.01	0	0
29	MP BETA4	Y	.01	.01	0	0
30	MP BETA3	Y	.01	.01	0	0
31	MP BETA2	Y	.01	.01	0	0
32	MP BETA1	Y	.01	.01	0	0
33	MP ALPHA8	Y	.01	.01	0	0
34	MP ALPHA7	Y	.01	.01	0	0
35	MP ALPHA6	Y	.01	.01	0	0

Member Distributed Loads (BLC 18 : Wind Load (210)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
36	MP ALPHA5	Y	.01	.01	0	0
37	MP ALPHA4	Y	.01	.01	0	0
38	MP ALPHA3	Y	.01	.01	0	0
39	MP ALPHA2	Y	.01	.01	0	0
40	MP ALPHA1	Y	.01	.01	0	0
41	LADDER2	Y	.003	.003	0	0
42	LADDER1	Y	.003	.003	0	0
43	FACE3	Y	.009	.009	0	0
44	FACE2	Y	.009	.009	0	0
45	FACE1	Y	.009	.009	0	0
46	CORNER3	Y	.011	.011	0	0
47	CORNER2	Y	.011	.011	0	0
48	CORNER1	Y	.011	.011	0	0
49	Standoff6	X	.003	.003	0	0
50	Standoff5	X	.003	.003	0	0
51	Standoff4	X	.003	.003	0	0
52	Standoff3	X	.003	.003	0	0
53	Standoff2	X	.003	.003	0	0
54	Standoff1	X	.003	.003	0	0
55	SUPPORT2	X	.006	.006	0	0
56	SUPPORT1	X	.006	.006	0	0
57	Rail3	X	.002	.002	0	0
58	Rail2	X	.006	.006	0	0
59	Rail1	X	.006	.006	0	0
60	RUNG6	X	.0005	.0005	0	0
61	RUNG5	X	.0005	.0005	0	0
62	RUNG4	X	.0005	.0005	0	0
63	RUNG3	X	.0005	.0005	0	0
64	RUNG2	X	.0005	.0005	0	0
65	RUNG1	X	.0005	.0005	0	0
66	PLATE3	X	.0005	.0005	0	0
67	PLATE2	X	.0005	.0005	0	0
68	PLATE1	X	.0005	.0005	0	0
69	MP GAMMA6	X	.006	.006	0	0
70	MP GAMMA5	X	.006	.006	0	0
71	MP GAMMA4	X	.006	.006	0	0
72	MP GAMMA3	X	.006	.006	0	0
73	MP GAMMA2	X	.006	.006	0	0
74	MP GAMMA1	X	.006	.006	0	0
75	MP BETA6	X	.006	.006	0	0
76	MP BETA5	X	.006	.006	0	0
77	MP BETA4	X	.006	.006	0	0
78	MP BETA3	X	.006	.006	0	0
79	MP BETA2	X	.006	.006	0	0
80	MP BETA1	X	.006	.006	0	0
81	MP ALPHA8	X	.006	.006	0	0
82	MP ALPHA7	X	.006	.006	0	0
83	MP ALPHA6	X	.006	.006	0	0
84	MP ALPHA5	X	.006	.006	0	0
85	MP ALPHA4	X	.006	.006	0	0
86	MP ALPHA3	X	.006	.006	0	0
87	MP ALPHA2	X	.006	.006	0	0

Member Distributed Loads (BLC 18 : Wind Load (210)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
88	MP ALPHA1	X	.006	.006	0	0
89	LADDER2	X	.002	.002	0	0
90	LADDER1	X	.002	.002	0	0
91	FACE3	X	.005	.005	0	0
92	FACE2	X	.005	.005	0	0
93	FACE1	X	.005	.005	0	0
94	CORNER3	X	.006	.006	0	0
95	CORNER2	X	.006	.006	0	0
96	CORNER1	X	.006	.006	0	0
97	RAIL6	Y	.003	.003	0	0
98	RAIL6	X	.002	.002	0	0
99	RAIL5	Y	.011	.011	0	0
100	RAIL5	X	.006	.006	0	0
101	RAIL4	Y	.011	.011	0	0
102	RAIL4	X	.006	.006	0	0
103	PLATE4	Y	.000866	.000866	0	0
104	PLATE4	X	.0005	.0005	0	0
105	PLATE5	Y	.000866	.000866	0	0
106	PLATE5	X	.0005	.0005	0	0
107	PLATE6	Y	.000866	.000866	0	0
108	PLATE6	X	.0005	.0005	0	0

Member Distributed Loads (BLC 19 : Ice Wind Load (210))

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	Standoff6	Y	.003	.003	0	0
2	Standoff5	Y	.003	.003	0	0
3	Standoff4	Y	.003	.003	0	0
4	Standoff3	Y	.003	.003	0	0
5	Standoff2	Y	.003	.003	0	0
6	Standoff1	Y	.003	.003	0	0
7	SUPPORT2	Y	.004	.004	0	0
8	SUPPORT1	Y	.004	.004	0	0
9	Rail3	Y	.002	.002	0	0
10	Rail2	Y	.005	.005	0	0
11	Rail1	Y	.005	.005	0	0
12	RUNG6	Y	.000866	.000866	0	0
13	RUNG5	Y	.000866	.000866	0	0
14	RUNG4	Y	.000866	.000866	0	0
15	RUNG3	Y	.000866	.000866	0	0
16	RUNG2	Y	.000866	.000866	0	0
17	RUNG1	Y	.000866	.000866	0	0
18	PLATE3	Y	.002	.002	0	0
19	PLATE2	Y	.002	.002	0	0
20	PLATE1	Y	.002	.002	0	0
21	MP GAMMA6	Y	.003	.003	0	0
22	MP GAMMA5	Y	.003	.003	0	0
23	MP GAMMA4	Y	.003	.003	0	0
24	MP GAMMA3	Y	.003	.003	0	0
25	MP GAMMA2	Y	.003	.003	0	0
26	MP GAMMA1	Y	.003	.003	0	0
27	MP BETA6	Y	.003	.003	0	0

Member Distributed Loads (BLC 19 : Ice Wind Load (210)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
28	MP BETA5	Y	.003	.003	0	0
29	MP BETA4	Y	.003	.003	0	0
30	MP BETA3	Y	.003	.003	0	0
31	MP BETA2	Y	.003	.003	0	0
32	MP BETA1	Y	.003	.003	0	0
33	MP ALPHA8	Y	.003	.003	0	0
34	MP ALPHA7	Y	.003	.003	0	0
35	MP ALPHA6	Y	.003	.003	0	0
36	MP ALPHA5	Y	.003	.003	0	0
37	MP ALPHA4	Y	.003	.003	0	0
38	MP ALPHA3	Y	.003	.003	0	0
39	MP ALPHA2	Y	.003	.003	0	0
40	MP ALPHA1	Y	.003	.003	0	0
41	LADDER2	Y	.003	.003	0	0
42	LADDER1	Y	.003	.003	0	0
43	FACE3	Y	.004	.004	0	0
44	FACE2	Y	.008	.008	0	0
45	FACE1	Y	.008	.008	0	0
46	CORNER3	Y	.004	.004	0	0
47	CORNER2	Y	.004	.004	0	0
48	CORNER1	Y	.004	.004	0	0
49	Standoff6	X	.002	.002	0	0
50	Standoff5	X	.002	.002	0	0
51	Standoff4	X	.002	.002	0	0
52	Standoff3	X	.002	.002	0	0
53	Standoff2	X	.002	.002	0	0
54	Standoff1	X	.002	.002	0	0
55	SUPPORT2	X	.003	.003	0	0
56	SUPPORT1	X	.003	.003	0	0
57	Rail3	X	.001	.001	0	0
58	Rail2	X	.003	.003	0	0
59	Rail1	X	.003	.003	0	0
60	RUNG6	X	.0005	.0005	0	0
61	RUNG5	X	.0005	.0005	0	0
62	RUNG4	X	.0005	.0005	0	0
63	RUNG3	X	.0005	.0005	0	0
64	RUNG2	X	.0005	.0005	0	0
65	RUNG1	X	.0005	.0005	0	0
66	PLATE3	X	.001	.001	0	0
67	PLATE2	X	.001	.001	0	0
68	PLATE1	X	.001	.001	0	0
69	MP GAMMA6	X	.002	.002	0	0
70	MP GAMMA5	X	.002	.002	0	0
71	MP GAMMA4	X	.002	.002	0	0
72	MP GAMMA3	X	.002	.002	0	0
73	MP GAMMA2	X	.002	.002	0	0
74	MP GAMMA1	X	.002	.002	0	0
75	MP BETA6	X	.002	.002	0	0
76	MP BETA5	X	.002	.002	0	0
77	MP BETA4	X	.002	.002	0	0
78	MP BETA3	X	.002	.002	0	0
79	MP BETA2	X	.002	.002	0	0

Member Distributed Loads (BLC 19 : Ice Wind Load (210)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
80	MP BETA1	X	.002	.002	0	0
81	MP ALPHA8	X	.002	.002	0	0
82	MP ALPHA7	X	.002	.002	0	0
83	MP ALPHA6	X	.002	.002	0	0
84	MP ALPHA5	X	.002	.002	0	0
85	MP ALPHA4	X	.002	.002	0	0
86	MP ALPHA3	X	.002	.002	0	0
87	MP ALPHA2	X	.002	.002	0	0
88	MP ALPHA1	X	.002	.002	0	0
89	LADDER2	X	.002	.002	0	0
90	LADDER1	X	.002	.002	0	0
91	FACE3	X	.003	.003	0	0
92	FACE2	X	.004	.004	0	0
93	FACE1	X	.004	.004	0	0
94	CORNER3	X	.003	.003	0	0
95	CORNER2	X	.003	.003	0	0
96	CORNER1	X	.003	.003	0	0
97	RAIL6	Y	.002	.002	0	0
98	RAIL6	X	.001	.001	0	0
99	RAIL5	Y	.005	.005	0	0
100	RAIL5	X	.003	.003	0	0
101	RAIL4	Y	.005	.005	0	0
102	RAIL4	X	.003	.003	0	0
103	PLATE4	Y	.002	.002	0	0
104	PLATE4	X	.001	.001	0	0
105	PLATE5	Y	.002	.002	0	0
106	PLATE5	X	.001	.001	0	0
107	PLATE6	Y	.002	.002	0	0
108	PLATE6	X	.001	.001	0	0

Member Distributed Loads (BLC 20 : Wind Load (240))

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	Standoff6	Y	.003	.003	0	0
2	Standoff5	Y	.003	.003	0	0
3	Standoff4	Y	.003	.003	0	0
4	Standoff3	Y	.003	.003	0	0
5	Standoff2	Y	.003	.003	0	0
6	Standoff1	Y	.003	.003	0	0
7	SUPPORT2	Y	.006	.006	0	0
8	SUPPORT1	Y	.006	.006	0	0
9	Rail3	Y	.002	.002	0	0
10	Rail2	Y	.006	.006	0	0
11	Rail1	Y	.006	.006	0	0
12	RUNG6	Y	.0005	.0005	0	0
13	RUNG5	Y	.0005	.0005	0	0
14	RUNG4	Y	.0005	.0005	0	0
15	RUNG3	Y	.0005	.0005	0	0
16	RUNG2	Y	.0005	.0005	0	0
17	RUNG1	Y	.0005	.0005	0	0
18	PLATE3	Y	.0005	.0005	0	0
19	PLATE2	Y	.0005	.0005	0	0

Member Distributed Loads (BLC 20 : Wind Load (240)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
20	PLATE1	Y	.0005	.0005	0	0
21	MP GAMMA6	Y	.006	.006	0	0
22	MP GAMMA5	Y	.006	.006	0	0
23	MP GAMMA4	Y	.006	.006	0	0
24	MP GAMMA3	Y	.006	.006	0	0
25	MP GAMMA2	Y	.006	.006	0	0
26	MP GAMMA1	Y	.006	.006	0	0
27	MP BETA6	Y	.006	.006	0	0
28	MP BETA5	Y	.006	.006	0	0
29	MP BETA4	Y	.006	.006	0	0
30	MP BETA3	Y	.006	.006	0	0
31	MP BETA2	Y	.006	.006	0	0
32	MP BETA1	Y	.006	.006	0	0
33	MP ALPHA8	Y	.006	.006	0	0
34	MP ALPHA7	Y	.006	.006	0	0
35	MP ALPHA6	Y	.006	.006	0	0
36	MP ALPHA5	Y	.006	.006	0	0
37	MP ALPHA4	Y	.006	.006	0	0
38	MP ALPHA3	Y	.006	.006	0	0
39	MP ALPHA2	Y	.006	.006	0	0
40	MP ALPHA1	Y	.006	.006	0	0
41	LADDER2	Y	.002	.002	0	0
42	LADDER1	Y	.002	.002	0	0
43	FACE3	Y	.005	.005	0	0
44	FACE2	Y	.005	.005	0	0
45	FACE1	Y	.005	.005	0	0
46	CORNER3	Y	.006	.006	0	0
47	CORNER2	Y	.006	.006	0	0
48	CORNER1	Y	.006	.006	0	0
49	Standoff6	X	.004	.004	0	0
50	Standoff5	X	.004	.004	0	0
51	Standoff4	X	.004	.004	0	0
52	Standoff3	X	.004	.004	0	0
53	Standoff2	X	.004	.004	0	0
54	Standoff1	X	.004	.004	0	0
55	SUPPORT2	X	.011	.011	0	0
56	SUPPORT1	X	.011	.011	0	0
57	Rail3	X	.003	.003	0	0
58	Rail2	X	.011	.011	0	0
59	Rail1	X	.011	.011	0	0
60	RUNG6	X	.000866	.000866	0	0
61	RUNG5	X	.000866	.000866	0	0
62	RUNG4	X	.000866	.000866	0	0
63	RUNG3	X	.000866	.000866	0	0
64	RUNG2	X	.000866	.000866	0	0
65	RUNG1	X	.000866	.000866	0	0
66	PLATE3	X	.000866	.000866	0	0
67	PLATE2	X	.000866	.000866	0	0
68	PLATE1	X	.000866	.000866	0	0
69	MP GAMMA6	X	.01	.01	0	0
70	MP GAMMA5	X	.01	.01	0	0
71	MP GAMMA4	X	.01	.01	0	0

Member Distributed Loads (BLC 20 : Wind Load (240)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
72	MP GAMMA3	X	.01	.01	0	0
73	MP GAMMA2	X	.01	.01	0	0
74	MP GAMMA1	X	.01	.01	0	0
75	MP BETA6	X	.01	.01	0	0
76	MP BETA5	X	.01	.01	0	0
77	MP BETA4	X	.01	.01	0	0
78	MP BETA3	X	.01	.01	0	0
79	MP BETA2	X	.01	.01	0	0
80	MP BETA1	X	.01	.01	0	0
81	MP ALPHA8	X	.01	.01	0	0
82	MP ALPHA7	X	.01	.01	0	0
83	MP ALPHA6	X	.01	.01	0	0
84	MP ALPHA5	X	.01	.01	0	0
85	MP ALPHA4	X	.01	.01	0	0
86	MP ALPHA3	X	.01	.01	0	0
87	MP ALPHA2	X	.01	.01	0	0
88	MP ALPHA1	X	.01	.01	0	0
89	LADDER2	X	.003	.003	0	0
90	LADDER1	X	.003	.003	0	0
91	FACE3	X	.009	.009	0	0
92	FACE2	X	.009	.009	0	0
93	FACE1	X	.009	.009	0	0
94	CORNER3	X	.011	.011	0	0
95	CORNER2	X	.011	.011	0	0
96	CORNER1	X	.011	.011	0	0
97	RAIL6	Y	.002	.002	0	0
98	RAIL6	X	.003	.003	0	0
99	RAIL5	Y	.006	.006	0	0
100	RAIL5	X	.011	.011	0	0
101	RAIL4	Y	.006	.006	0	0
102	RAIL4	X	.011	.011	0	0
103	PLATE4	Y	.0005	.0005	0	0
104	PLATE4	X	.000866	.000866	0	0
105	PLATE5	Y	.0005	.0005	0	0
106	PLATE5	X	.000866	.000866	0	0
107	PLATE6	Y	.0005	.0005	0	0
108	PLATE6	X	.000866	.000866	0	0

Member Distributed Loads (BLC 21 : Ice Wind Load (240))

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	Standoff6	Y	.002	.002	0	0
2	Standoff5	Y	.002	.002	0	0
3	Standoff4	Y	.002	.002	0	0
4	Standoff3	Y	.002	.002	0	0
5	Standoff2	Y	.002	.002	0	0
6	Standoff1	Y	.002	.002	0	0
7	SUPPORT2	Y	.003	.003	0	0
8	SUPPORT1	Y	.003	.003	0	0
9	Rail3	Y	.001	.001	0	0
10	Rail2	Y	.003	.003	0	0
11	Rail1	Y	.003	.003	0	0

Member Distributed Loads (BLC 21 : Ice Wind Load (240)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
12	RUNG6	Y	.0005	.0005	0	0
13	RUNG5	Y	.0005	.0005	0	0
14	RUNG4	Y	.0005	.0005	0	0
15	RUNG3	Y	.0005	.0005	0	0
16	RUNG2	Y	.0005	.0005	0	0
17	RUNG1	Y	.0005	.0005	0	0
18	PLATE3	Y	.001	.001	0	0
19	PLATE2	Y	.001	.001	0	0
20	PLATE1	Y	.001	.001	0	0
21	MP GAMMA6	Y	.002	.002	0	0
22	MP GAMMA5	Y	.002	.002	0	0
23	MP GAMMA4	Y	.002	.002	0	0
24	MP GAMMA3	Y	.002	.002	0	0
25	MP GAMMA2	Y	.002	.002	0	0
26	MP GAMMA1	Y	.002	.002	0	0
27	MP BETA6	Y	.002	.002	0	0
28	MP BETA5	Y	.002	.002	0	0
29	MP BETA4	Y	.002	.002	0	0
30	MP BETA3	Y	.002	.002	0	0
31	MP BETA2	Y	.002	.002	0	0
32	MP BETA1	Y	.002	.002	0	0
33	MP ALPHA8	Y	.002	.002	0	0
34	MP ALPHA7	Y	.002	.002	0	0
35	MP ALPHA6	Y	.002	.002	0	0
36	MP ALPHA5	Y	.002	.002	0	0
37	MP ALPHA4	Y	.002	.002	0	0
38	MP ALPHA3	Y	.002	.002	0	0
39	MP ALPHA2	Y	.002	.002	0	0
40	MP ALPHA1	Y	.002	.002	0	0
41	LADDER2	Y	.002	.002	0	0
42	LADDER1	Y	.002	.002	0	0
43	FACE3	Y	.003	.003	0	0
44	FACE2	Y	.004	.004	0	0
45	FACE1	Y	.004	.004	0	0
46	CORNER3	Y	.003	.003	0	0
47	CORNER2	Y	.003	.003	0	0
48	CORNER1	Y	.003	.003	0	0
49	Standoff6	X	.003	.003	0	0
50	Standoff5	X	.003	.003	0	0
51	Standoff4	X	.003	.003	0	0
52	Standoff3	X	.003	.003	0	0
53	Standoff2	X	.003	.003	0	0
54	Standoff1	X	.003	.003	0	0
55	SUPPORT2	X	.004	.004	0	0
56	SUPPORT1	X	.004	.004	0	0
57	Rail3	X	.002	.002	0	0
58	Rail2	X	.005	.005	0	0
59	Rail1	X	.005	.005	0	0
60	RUNG6	X	.000866	.000866	0	0
61	RUNG5	X	.000866	.000866	0	0
62	RUNG4	X	.000866	.000866	0	0
63	RUNG3	X	.000866	.000866	0	0

Member Distributed Loads (BLC 21 : Ice Wind Load (240)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
64	RUNG2	X	.000866	.000866	0	0
65	RUNG1	X	.000866	.000866	0	0
66	PLATE3	X	.002	.002	0	0
67	PLATE2	X	.002	.002	0	0
68	PLATE1	X	.002	.002	0	0
69	MP GAMMA6	X	.003	.003	0	0
70	MP GAMMA5	X	.003	.003	0	0
71	MP GAMMA4	X	.003	.003	0	0
72	MP GAMMA3	X	.003	.003	0	0
73	MP GAMMA2	X	.003	.003	0	0
74	MP GAMMA1	X	.003	.003	0	0
75	MP BETA6	X	.003	.003	0	0
76	MP BETA5	X	.003	.003	0	0
77	MP BETA4	X	.003	.003	0	0
78	MP BETA3	X	.003	.003	0	0
79	MP BETA2	X	.003	.003	0	0
80	MP BETA1	X	.003	.003	0	0
81	MP ALPHA8	X	.003	.003	0	0
82	MP ALPHA7	X	.003	.003	0	0
83	MP ALPHA6	X	.003	.003	0	0
84	MP ALPHA5	X	.003	.003	0	0
85	MP ALPHA4	X	.003	.003	0	0
86	MP ALPHA3	X	.003	.003	0	0
87	MP ALPHA2	X	.003	.003	0	0
88	MP ALPHA1	X	.003	.003	0	0
89	LADDER2	X	.003	.003	0	0
90	LADDER1	X	.003	.003	0	0
91	FACE3	X	.004	.004	0	0
92	FACE2	X	.008	.008	0	0
93	FACE1	X	.008	.008	0	0
94	CORNER3	X	.004	.004	0	0
95	CORNER2	X	.004	.004	0	0
96	CORNER1	X	.004	.004	0	0
97	RAIL6	Y	.001	.001	0	0
98	RAIL6	X	.002	.002	0	0
99	RAIL5	Y	.003	.003	0	0
100	RAIL5	X	.005	.005	0	0
101	RAIL4	Y	.003	.003	0	0
102	RAIL4	X	.005	.005	0	0
103	PLATE4	Y	.001	.001	0	0
104	PLATE4	X	.002	.002	0	0
105	PLATE5	Y	.001	.001	0	0
106	PLATE5	X	.002	.002	0	0
107	PLATE6	Y	.001	.001	0	0
108	PLATE6	X	.002	.002	0	0

Member Distributed Loads (BLC 22 : Wind Load (270))

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	Standoff6	X	.005	.005	0	0
2	Standoff5	X	.005	.005	0	0
3	Standoff4	X	.005	.005	0	0

Member Distributed Loads (BLC 22 : Wind Load (270)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
4	Standoff3	X	.005	.005	0	0
5	Standoff2	X	.005	.005	0	0
6	Standoff1	X	.005	.005	0	0
7	SUPPORT2	X	.013	.013	0	0
8	SUPPORT1	X	.013	.013	0	0
9	Rail3	X	.004	.004	0	0
10	Rail2	X	.013	.013	0	0
11	Rail1	X	.013	.013	0	0
12	RUNG6	X	.001	.001	0	0
13	RUNG5	X	.001	.001	0	0
14	RUNG4	X	.001	.001	0	0
15	RUNG3	X	.001	.001	0	0
16	RUNG2	X	.001	.001	0	0
17	RUNG1	X	.001	.001	0	0
18	PLATE3	X	.001	.001	0	0
19	PLATE2	X	.001	.001	0	0
20	PLATE1	X	.001	.001	0	0
21	MP GAMMA6	X	.012	.012	0	0
22	MP GAMMA5	X	.012	.012	0	0
23	MP GAMMA4	X	.012	.012	0	0
24	MP GAMMA3	X	.012	.012	0	0
25	MP GAMMA2	X	.012	.012	0	0
26	MP GAMMA1	X	.012	.012	0	0
27	MP BETA6	X	.012	.012	0	0
28	MP BETA5	X	.012	.012	0	0
29	MP BETA4	X	.012	.012	0	0
30	MP BETA3	X	.012	.012	0	0
31	MP BETA2	X	.012	.012	0	0
32	MP BETA1	X	.012	.012	0	0
33	MP ALPHA8	X	.012	.012	0	0
34	MP ALPHA7	X	.012	.012	0	0
35	MP ALPHA6	X	.012	.012	0	0
36	MP ALPHA5	X	.012	.012	0	0
37	MP ALPHA4	X	.012	.012	0	0
38	MP ALPHA3	X	.012	.012	0	0
39	MP ALPHA2	X	.012	.012	0	0
40	MP ALPHA1	X	.012	.012	0	0
41	LADDER2	X	.004	.004	0	0
42	LADDER1	X	.004	.004	0	0
43	FACE3	X	.01	.01	0	0
44	FACE2	X	.01	.01	0	0
45	FACE1	X	.01	.01	0	0
46	CORNER3	X	.013	.013	0	0
47	CORNER2	X	.013	.013	0	0
48	CORNER1	X	.013	.013	0	0
49	RAIL6	X	.004	.004	0	0
50	RAIL5	X	.013	.013	0	0
51	RAIL4	X	.013	.013	0	0
52	PLATE4	X	.001	.001	0	0
53	PLATE5	X	.001	.001	0	0
54	PLATE6	X	.001	.001	0	0

Member Distributed Loads (BLC 23 : Ice Wind Load (270))

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	Standoff6	X	.003	.003	0	0
2	Standoff5	X	.003	.003	0	0
3	Standoff4	X	.003	.003	0	0
4	Standoff3	X	.003	.003	0	0
5	Standoff2	X	.003	.003	0	0
6	Standoff1	X	.003	.003	0	0
7	SUPPORT2	X	.005	.005	0	0
8	SUPPORT1	X	.005	.005	0	0
9	Rail3	X	.002	.002	0	0
10	Rail2	X	.006	.006	0	0
11	Rail1	X	.006	.006	0	0
12	RUNG6	X	.001	.001	0	0
13	RUNG5	X	.001	.001	0	0
14	RUNG4	X	.001	.001	0	0
15	RUNG3	X	.001	.001	0	0
16	RUNG2	X	.001	.001	0	0
17	RUNG1	X	.001	.001	0	0
18	PLATE3	X	.002	.002	0	0
19	PLATE2	X	.002	.002	0	0
20	PLATE1	X	.002	.002	0	0
21	MP GAMMA6	X	.004	.004	0	0
22	MP GAMMA5	X	.004	.004	0	0
23	MP GAMMA4	X	.004	.004	0	0
24	MP GAMMA3	X	.004	.004	0	0
25	MP GAMMA2	X	.004	.004	0	0
26	MP GAMMA1	X	.004	.004	0	0
27	MP BETA6	X	.004	.004	0	0
28	MP BETA5	X	.004	.004	0	0
29	MP BETA4	X	.004	.004	0	0
30	MP BETA3	X	.004	.004	0	0
31	MP BETA2	X	.004	.004	0	0
32	MP BETA1	X	.004	.004	0	0
33	MP ALPHA8	X	.004	.004	0	0
34	MP ALPHA7	X	.004	.004	0	0
35	MP ALPHA6	X	.004	.004	0	0
36	MP ALPHA5	X	.004	.004	0	0
37	MP ALPHA4	X	.004	.004	0	0
38	MP ALPHA3	X	.004	.004	0	0
39	MP ALPHA2	X	.004	.004	0	0
40	MP ALPHA1	X	.004	.004	0	0
41	LADDER2	X	.003	.003	0	0
42	LADDER1	X	.003	.003	0	0
43	FACE3	X	.005	.005	0	0
44	FACE2	X	.009	.009	0	0
45	FACE1	X	.009	.009	0	0
46	CORNER3	X	.005	.005	0	0
47	CORNER2	X	.005	.005	0	0
48	CORNER1	X	.005	.005	0	0
49	RAIL6	X	.002	.002	0	0
50	RAIL5	X	.006	.006	0	0
51	RAIL4	X	.006	.006	0	0
52	PLATE4	X	.002	.002	0	0

Member Distributed Loads (BLC 23 : Ice Wind Load (270)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
53	PLATE5	X	.002	.002	0	0
54	PLATE6	X	.002	.002	0	0

Member Distributed Loads (BLC 24 : Wind Load (300))

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	Standoff6	Y	-.003	-.003	0	0
2	Standoff5	Y	-.003	-.003	0	0
3	Standoff4	Y	-.003	-.003	0	0
4	Standoff3	Y	-.003	-.003	0	0
5	Standoff2	Y	-.003	-.003	0	0
6	Standoff1	Y	-.003	-.003	0	0
7	SUPPORT2	Y	-.006	-.006	0	0
8	SUPPORT1	Y	-.006	-.006	0	0
9	Rail3	Y	-.002	-.002	0	0
10	Rail2	Y	-.006	-.006	0	0
11	Rail1	Y	-.006	-.006	0	0
12	RUNG6	Y	-.0005	-.0005	0	0
13	RUNG5	Y	-.0005	-.0005	0	0
14	RUNG4	Y	-.0005	-.0005	0	0
15	RUNG3	Y	-.0005	-.0005	0	0
16	RUNG2	Y	-.0005	-.0005	0	0
17	RUNG1	Y	-.0005	-.0005	0	0
18	PLATE3	Y	-.0005	-.0005	0	0
19	PLATE2	Y	-.0005	-.0005	0	0
20	PLATE1	Y	-.0005	-.0005	0	0
21	MP GAMMA6	Y	-.006	-.006	0	0
22	MP GAMMA5	Y	-.006	-.006	0	0
23	MP GAMMA4	Y	-.006	-.006	0	0
24	MP GAMMA3	Y	-.006	-.006	0	0
25	MP GAMMA2	Y	-.006	-.006	0	0
26	MP GAMMA1	Y	-.006	-.006	0	0
27	MP BETA6	Y	-.006	-.006	0	0
28	MP BETA5	Y	-.006	-.006	0	0
29	MP BETA4	Y	-.006	-.006	0	0
30	MP BETA3	Y	-.006	-.006	0	0
31	MP BETA2	Y	-.006	-.006	0	0
32	MP BETA1	Y	-.006	-.006	0	0
33	MP ALPHA8	Y	-.006	-.006	0	0
34	MP ALPHA7	Y	-.006	-.006	0	0
35	MP ALPHA6	Y	-.006	-.006	0	0
36	MP ALPHA5	Y	-.006	-.006	0	0
37	MP ALPHA4	Y	-.006	-.006	0	0
38	MP ALPHA3	Y	-.006	-.006	0	0
39	MP ALPHA2	Y	-.006	-.006	0	0
40	MP ALPHA1	Y	-.006	-.006	0	0
41	LADDER2	Y	-.002	-.002	0	0
42	LADDER1	Y	-.002	-.002	0	0
43	FACE3	Y	-.005	-.005	0	0
44	FACE2	Y	-.005	-.005	0	0
45	FACE1	Y	-.005	-.005	0	0
46	CORNER3	Y	-.006	-.006	0	0

Member Distributed Loads (BLC 24 : Wind Load (300)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
47	CORNER2	Y	-.006	-.006	0	0
48	CORNER1	Y	-.006	-.006	0	0
49	Standoff6	X	.004	.004	0	0
50	Standoff5	X	.004	.004	0	0
51	Standoff4	X	.004	.004	0	0
52	Standoff3	X	.004	.004	0	0
53	Standoff2	X	.004	.004	0	0
54	Standoff1	X	.004	.004	0	0
55	SUPPORT2	X	.011	.011	0	0
56	SUPPORT1	X	.011	.011	0	0
57	Rail3	X	.003	.003	0	0
58	Rail2	X	.011	.011	0	0
59	Rail1	X	.011	.011	0	0
60	RUNG6	X	.000866	.000866	0	0
61	RUNG5	X	.000866	.000866	0	0
62	RUNG4	X	.000866	.000866	0	0
63	RUNG3	X	.000866	.000866	0	0
64	RUNG2	X	.000866	.000866	0	0
65	RUNG1	X	.000866	.000866	0	0
66	PLATE3	X	.000866	.000866	0	0
67	PLATE2	X	.000866	.000866	0	0
68	PLATE1	X	.000866	.000866	0	0
69	MP GAMMA6	X	.01	.01	0	0
70	MP GAMMA5	X	.01	.01	0	0
71	MP GAMMA4	X	.01	.01	0	0
72	MP GAMMA3	X	.01	.01	0	0
73	MP GAMMA2	X	.01	.01	0	0
74	MP GAMMA1	X	.01	.01	0	0
75	MP BETA6	X	.01	.01	0	0
76	MP BETA5	X	.01	.01	0	0
77	MP BETA4	X	.01	.01	0	0
78	MP BETA3	X	.01	.01	0	0
79	MP BETA2	X	.01	.01	0	0
80	MP BETA1	X	.01	.01	0	0
81	MP ALPHA8	X	.01	.01	0	0
82	MP ALPHA7	X	.01	.01	0	0
83	MP ALPHA6	X	.01	.01	0	0
84	MP ALPHA5	X	.01	.01	0	0
85	MP ALPHA4	X	.01	.01	0	0
86	MP ALPHA3	X	.01	.01	0	0
87	MP ALPHA2	X	.01	.01	0	0
88	MP ALPHA1	X	.01	.01	0	0
89	LADDER2	X	.003	.003	0	0
90	LADDER1	X	.003	.003	0	0
91	FACE3	X	.009	.009	0	0
92	FACE2	X	.009	.009	0	0
93	FACE1	X	.009	.009	0	0
94	CORNER3	X	.011	.011	0	0
95	CORNER2	X	.011	.011	0	0
96	CORNER1	X	.011	.011	0	0
97	RAIL6	Y	-.002	-.002	0	0
98	RAIL6	X	.003	.003	0	0

Member Distributed Loads (BLC 24 : Wind Load (300)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
99	RAIL5	Y	-.006	-.006	0	0
100	RAIL5	X	.011	.011	0	0
101	RAIL4	Y	-.006	-.006	0	0
102	RAIL4	X	.011	.011	0	0
103	PLATE4	Y	-.0005	-.0005	0	0
104	PLATE4	X	.000866	.000866	0	0
105	PLATE5	Y	-.0005	-.0005	0	0
106	PLATE5	X	.000866	.000866	0	0
107	PLATE6	Y	-.0005	-.0005	0	0
108	PLATE6	X	.000866	.000866	0	0

Member Distributed Loads (BLC 25 : Ice Wind Load (300))

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	Standoff6	Y	-.002	-.002	0	0
2	Standoff5	Y	-.002	-.002	0	0
3	Standoff4	Y	-.002	-.002	0	0
4	Standoff3	Y	-.002	-.002	0	0
5	Standoff2	Y	-.002	-.002	0	0
6	Standoff1	Y	-.002	-.002	0	0
7	SUPPORT2	Y	-.003	-.003	0	0
8	SUPPORT1	Y	-.003	-.003	0	0
9	Rail3	Y	-.001	-.001	0	0
10	Rail2	Y	-.003	-.003	0	0
11	Rail1	Y	-.003	-.003	0	0
12	RUNG6	Y	-.0005	-.0005	0	0
13	RUNG5	Y	-.0005	-.0005	0	0
14	RUNG4	Y	-.0005	-.0005	0	0
15	RUNG3	Y	-.0005	-.0005	0	0
16	RUNG2	Y	-.0005	-.0005	0	0
17	RUNG1	Y	-.0005	-.0005	0	0
18	PLATE3	Y	-.001	-.001	0	0
19	PLATE2	Y	-.001	-.001	0	0
20	PLATE1	Y	-.001	-.001	0	0
21	MP GAMMA6	Y	-.002	-.002	0	0
22	MP GAMMA5	Y	-.002	-.002	0	0
23	MP GAMMA4	Y	-.002	-.002	0	0
24	MP GAMMA3	Y	-.002	-.002	0	0
25	MP GAMMA2	Y	-.002	-.002	0	0
26	MP GAMMA1	Y	-.002	-.002	0	0
27	MP BETA6	Y	-.002	-.002	0	0
28	MP BETA5	Y	-.002	-.002	0	0
29	MP BETA4	Y	-.002	-.002	0	0
30	MP BETA3	Y	-.002	-.002	0	0
31	MP BETA2	Y	-.002	-.002	0	0
32	MP BETA1	Y	-.002	-.002	0	0
33	MP ALPHA8	Y	-.002	-.002	0	0
34	MP ALPHA7	Y	-.002	-.002	0	0
35	MP ALPHA6	Y	-.002	-.002	0	0
36	MP ALPHA5	Y	-.002	-.002	0	0
37	MP ALPHA4	Y	-.002	-.002	0	0
38	MP ALPHA3	Y	-.002	-.002	0	0

Member Distributed Loads (BLC 25 : Ice Wind Load (300)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
39	MP ALPHA2	Y	-.002	-.002	0	0
40	MP ALPHA1	Y	-.002	-.002	0	0
41	LADDER2	Y	-.002	-.002	0	0
42	LADDER1	Y	-.002	-.002	0	0
43	FACE3	Y	-.003	-.003	0	0
44	FACE2	Y	-.004	-.004	0	0
45	FACE1	Y	-.004	-.004	0	0
46	CORNER3	Y	-.003	-.003	0	0
47	CORNER2	Y	-.003	-.003	0	0
48	CORNER1	Y	-.003	-.003	0	0
49	Standoff6	X	.003	.003	0	0
50	Standoff5	X	.003	.003	0	0
51	Standoff4	X	.003	.003	0	0
52	Standoff3	X	.003	.003	0	0
53	Standoff2	X	.003	.003	0	0
54	Standoff1	X	.003	.003	0	0
55	SUPPORT2	X	.004	.004	0	0
56	SUPPORT1	X	.004	.004	0	0
57	Rail3	X	.002	.002	0	0
58	Rail2	X	.005	.005	0	0
59	Rail1	X	.005	.005	0	0
60	RUNG6	X	.000866	.000866	0	0
61	RUNG5	X	.000866	.000866	0	0
62	RUNG4	X	.000866	.000866	0	0
63	RUNG3	X	.000866	.000866	0	0
64	RUNG2	X	.000866	.000866	0	0
65	RUNG1	X	.000866	.000866	0	0
66	PLATE3	X	.002	.002	0	0
67	PLATE2	X	.002	.002	0	0
68	PLATE1	X	.002	.002	0	0
69	MP GAMMA6	X	.003	.003	0	0
70	MP GAMMA5	X	.003	.003	0	0
71	MP GAMMA4	X	.003	.003	0	0
72	MP GAMMA3	X	.003	.003	0	0
73	MP GAMMA2	X	.003	.003	0	0
74	MP GAMMA1	X	.003	.003	0	0
75	MP BETA6	X	.003	.003	0	0
76	MP BETA5	X	.003	.003	0	0
77	MP BETA4	X	.003	.003	0	0
78	MP BETA3	X	.003	.003	0	0
79	MP BETA2	X	.003	.003	0	0
80	MP BETA1	X	.003	.003	0	0
81	MP ALPHA8	X	.003	.003	0	0
82	MP ALPHA7	X	.003	.003	0	0
83	MP ALPHA6	X	.003	.003	0	0
84	MP ALPHA5	X	.003	.003	0	0
85	MP ALPHA4	X	.003	.003	0	0
86	MP ALPHA3	X	.003	.003	0	0
87	MP ALPHA2	X	.003	.003	0	0
88	MP ALPHA1	X	.003	.003	0	0
89	LADDER2	X	.003	.003	0	0
90	LADDER1	X	.003	.003	0	0

Member Distributed Loads (BLC 25 : Ice Wind Load (300)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
91	FACE3	X	.004	.004	0	0
92	FACE2	X	.008	.008	0	0
93	FACE1	X	.008	.008	0	0
94	CORNER3	X	.004	.004	0	0
95	CORNER2	X	.004	.004	0	0
96	CORNER1	X	.004	.004	0	0
97	RAIL6	Y	-.001	-.001	0	0
98	RAIL6	X	.002	.002	0	0
99	RAIL5	Y	-.003	-.003	0	0
100	RAIL5	X	.005	.005	0	0
101	RAIL4	Y	-.003	-.003	0	0
102	RAIL4	X	.005	.005	0	0
103	PLATE4	Y	-.001	-.001	0	0
104	PLATE4	X	.002	.002	0	0
105	PLATE5	Y	-.001	-.001	0	0
106	PLATE5	X	.002	.002	0	0
107	PLATE6	Y	-.001	-.001	0	0
108	PLATE6	X	.002	.002	0	0

Member Distributed Loads (BLC 26 : Wind Load (330))

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	Standoff6	Y	-.004	-.004	0	0
2	Standoff5	Y	-.004	-.004	0	0
3	Standoff4	Y	-.004	-.004	0	0
4	Standoff3	Y	-.004	-.004	0	0
5	Standoff2	Y	-.004	-.004	0	0
6	Standoff1	Y	-.004	-.004	0	0
7	SUPPORT2	Y	-.011	-.011	0	0
8	SUPPORT1	Y	-.011	-.011	0	0
9	Rail3	Y	-.003	-.003	0	0
10	Rail2	Y	-.011	-.011	0	0
11	Rail1	Y	-.011	-.011	0	0
12	RUNG6	Y	-.000866	-.000866	0	0
13	RUNG5	Y	-.000866	-.000866	0	0
14	RUNG4	Y	-.000866	-.000866	0	0
15	RUNG3	Y	-.000866	-.000866	0	0
16	RUNG2	Y	-.000866	-.000866	0	0
17	RUNG1	Y	-.000866	-.000866	0	0
18	PLATE3	Y	-.000866	-.000866	0	0
19	PLATE2	Y	-.000866	-.000866	0	0
20	PLATE1	Y	-.000866	-.000866	0	0
21	MP GAMMA6	Y	-.01	-.01	0	0
22	MP GAMMA5	Y	-.01	-.01	0	0
23	MP GAMMA4	Y	-.01	-.01	0	0
24	MP GAMMA3	Y	-.01	-.01	0	0
25	MP GAMMA2	Y	-.01	-.01	0	0
26	MP GAMMA1	Y	-.01	-.01	0	0
27	MP BETA6	Y	-.01	-.01	0	0
28	MP BETA5	Y	-.01	-.01	0	0
29	MP BETA4	Y	-.01	-.01	0	0
30	MP BETA3	Y	-.01	-.01	0	0

Member Distributed Loads (BLC 26 : Wind Load (330)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
31	MP BETA2	Y	-.01	-.01	0	0
32	MP BETA1	Y	-.01	-.01	0	0
33	MP ALPHA8	Y	-.01	-.01	0	0
34	MP ALPHA7	Y	-.01	-.01	0	0
35	MP ALPHA6	Y	-.01	-.01	0	0
36	MP ALPHA5	Y	-.01	-.01	0	0
37	MP ALPHA4	Y	-.01	-.01	0	0
38	MP ALPHA3	Y	-.01	-.01	0	0
39	MP ALPHA2	Y	-.01	-.01	0	0
40	MP ALPHA1	Y	-.01	-.01	0	0
41	LADDER2	Y	-.003	-.003	0	0
42	LADDER1	Y	-.003	-.003	0	0
43	FACE3	Y	-.009	-.009	0	0
44	FACE2	Y	-.009	-.009	0	0
45	FACE1	Y	-.009	-.009	0	0
46	CORNER3	Y	-.011	-.011	0	0
47	CORNER2	Y	-.011	-.011	0	0
48	CORNER1	Y	-.011	-.011	0	0
49	Standoff6	X	.003	.003	0	0
50	Standoff5	X	.003	.003	0	0
51	Standoff4	X	.003	.003	0	0
52	Standoff3	X	.003	.003	0	0
53	Standoff2	X	.003	.003	0	0
54	Standoff1	X	.003	.003	0	0
55	SUPPORT2	X	.006	.006	0	0
56	SUPPORT1	X	.006	.006	0	0
57	Rail3	X	.002	.002	0	0
58	Rail2	X	.006	.006	0	0
59	Rail1	X	.006	.006	0	0
60	RUNG6	X	.0005	.0005	0	0
61	RUNG5	X	.0005	.0005	0	0
62	RUNG4	X	.0005	.0005	0	0
63	RUNG3	X	.0005	.0005	0	0
64	RUNG2	X	.0005	.0005	0	0
65	RUNG1	X	.0005	.0005	0	0
66	PLATE3	X	.0005	.0005	0	0
67	PLATE2	X	.0005	.0005	0	0
68	PLATE1	X	.0005	.0005	0	0
69	MP GAMMA6	X	.006	.006	0	0
70	MP GAMMA5	X	.006	.006	0	0
71	MP GAMMA4	X	.006	.006	0	0
72	MP GAMMA3	X	.006	.006	0	0
73	MP GAMMA2	X	.006	.006	0	0
74	MP GAMMA1	X	.006	.006	0	0
75	MP BETA6	X	.006	.006	0	0
76	MP BETA5	X	.006	.006	0	0
77	MP BETA4	X	.006	.006	0	0
78	MP BETA3	X	.006	.006	0	0
79	MP BETA2	X	.006	.006	0	0
80	MP BETA1	X	.006	.006	0	0
81	MP ALPHA8	X	.006	.006	0	0
82	MP ALPHA7	X	.006	.006	0	0

Member Distributed Loads (BLC 26 : Wind Load (330)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
83	MP ALPHA6	X	.006	.006	0	0
84	MP ALPHA5	X	.006	.006	0	0
85	MP ALPHA4	X	.006	.006	0	0
86	MP ALPHA3	X	.006	.006	0	0
87	MP ALPHA2	X	.006	.006	0	0
88	MP ALPHA1	X	.006	.006	0	0
89	LADDER2	X	.002	.002	0	0
90	LADDER1	X	.002	.002	0	0
91	FACE3	X	.005	.005	0	0
92	FACE2	X	.005	.005	0	0
93	FACE1	X	.005	.005	0	0
94	CORNER3	X	.006	.006	0	0
95	CORNER2	X	.006	.006	0	0
96	CORNER1	X	.006	.006	0	0
97	RAIL6	Y	-.003	-.003	0	0
98	RAIL6	X	.002	.002	0	0
99	RAIL5	Y	-.011	-.011	0	0
100	RAIL5	X	.006	.006	0	0
101	RAIL4	Y	-.011	-.011	0	0
102	RAIL4	X	.006	.006	0	0
103	PLATE4	Y	-.000866	-.000866	0	0
104	PLATE4	X	.0005	.0005	0	0
105	PLATE5	Y	-.000866	-.000866	0	0
106	PLATE5	X	.0005	.0005	0	0
107	PLATE6	Y	-.000866	-.000866	0	0
108	PLATE6	X	.0005	.0005	0	0

Member Distributed Loads (BLC 27 : Ice Wind Load (330))

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	Standoff6	Y	-.003	-.003	0	0
2	Standoff5	Y	-.003	-.003	0	0
3	Standoff4	Y	-.003	-.003	0	0
4	Standoff3	Y	-.003	-.003	0	0
5	Standoff2	Y	-.003	-.003	0	0
6	Standoff1	Y	-.003	-.003	0	0
7	SUPPORT2	Y	-.004	-.004	0	0
8	SUPPORT1	Y	-.004	-.004	0	0
9	Rail3	Y	-.002	-.002	0	0
10	Rail2	Y	-.005	-.005	0	0
11	Rail1	Y	-.005	-.005	0	0
12	RUNG6	Y	-.000866	-.000866	0	0
13	RUNG5	Y	-.000866	-.000866	0	0
14	RUNG4	Y	-.000866	-.000866	0	0
15	RUNG3	Y	-.000866	-.000866	0	0
16	RUNG2	Y	-.000866	-.000866	0	0
17	RUNG1	Y	-.000866	-.000866	0	0
18	PLATE3	Y	-.002	-.002	0	0
19	PLATE2	Y	-.002	-.002	0	0
20	PLATE1	Y	-.002	-.002	0	0
21	MP GAMMA6	Y	-.003	-.003	0	0
22	MP GAMMA5	Y	-.003	-.003	0	0

Member Distributed Loads (BLC 27 : Ice Wind Load (330)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
23	MP GAMMA4	Y	-.003	-.003	0	0
24	MP GAMMA3	Y	-.003	-.003	0	0
25	MP GAMMA2	Y	-.003	-.003	0	0
26	MP GAMMA1	Y	-.003	-.003	0	0
27	MP BETA6	Y	-.003	-.003	0	0
28	MP BETA5	Y	-.003	-.003	0	0
29	MP BETA4	Y	-.003	-.003	0	0
30	MP BETA3	Y	-.003	-.003	0	0
31	MP BETA2	Y	-.003	-.003	0	0
32	MP BETA1	Y	-.003	-.003	0	0
33	MP ALPHA8	Y	-.003	-.003	0	0
34	MP ALPHA7	Y	-.003	-.003	0	0
35	MP ALPHA6	Y	-.003	-.003	0	0
36	MP ALPHA5	Y	-.003	-.003	0	0
37	MP ALPHA4	Y	-.003	-.003	0	0
38	MP ALPHA3	Y	-.003	-.003	0	0
39	MP ALPHA2	Y	-.003	-.003	0	0
40	MP ALPHA1	Y	-.003	-.003	0	0
41	LADDER2	Y	-.003	-.003	0	0
42	LADDER1	Y	-.003	-.003	0	0
43	FACE3	Y	-.004	-.004	0	0
44	FACE2	Y	-.008	-.008	0	0
45	FACE1	Y	-.008	-.008	0	0
46	CORNER3	Y	-.004	-.004	0	0
47	CORNER2	Y	-.004	-.004	0	0
48	CORNER1	Y	-.004	-.004	0	0
49	Standoff6	X	.002	.002	0	0
50	Standoff5	X	.002	.002	0	0
51	Standoff4	X	.002	.002	0	0
52	Standoff3	X	.002	.002	0	0
53	Standoff2	X	.002	.002	0	0
54	Standoff1	X	.002	.002	0	0
55	SUPPORT2	X	.003	.003	0	0
56	SUPPORT1	X	.003	.003	0	0
57	Rail3	X	.001	.001	0	0
58	Rail2	X	.003	.003	0	0
59	Rail1	X	.003	.003	0	0
60	RUNG6	X	.0005	.0005	0	0
61	RUNG5	X	.0005	.0005	0	0
62	RUNG4	X	.0005	.0005	0	0
63	RUNG3	X	.0005	.0005	0	0
64	RUNG2	X	.0005	.0005	0	0
65	RUNG1	X	.0005	.0005	0	0
66	PLATE3	X	.001	.001	0	0
67	PLATE2	X	.001	.001	0	0
68	PLATE1	X	.001	.001	0	0
69	MP GAMMA6	X	.002	.002	0	0
70	MP GAMMA5	X	.002	.002	0	0
71	MP GAMMA4	X	.002	.002	0	0
72	MP GAMMA3	X	.002	.002	0	0
73	MP GAMMA2	X	.002	.002	0	0
74	MP GAMMA1	X	.002	.002	0	0

Member Distributed Loads (BLC 27 : Ice Wind Load (330)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
75	MP BETA6	X	.002	.002	0	0
76	MP BETA5	X	.002	.002	0	0
77	MP BETA4	X	.002	.002	0	0
78	MP BETA3	X	.002	.002	0	0
79	MP BETA2	X	.002	.002	0	0
80	MP BETA1	X	.002	.002	0	0
81	MP ALPHA8	X	.002	.002	0	0
82	MP ALPHA7	X	.002	.002	0	0
83	MP ALPHA6	X	.002	.002	0	0
84	MP ALPHA5	X	.002	.002	0	0
85	MP ALPHA4	X	.002	.002	0	0
86	MP ALPHA3	X	.002	.002	0	0
87	MP ALPHA2	X	.002	.002	0	0
88	MP ALPHA1	X	.002	.002	0	0
89	LADDER2	X	.002	.002	0	0
90	LADDER1	X	.002	.002	0	0
91	FACE3	X	.003	.003	0	0
92	FACE2	X	.004	.004	0	0
93	FACE1	X	.004	.004	0	0
94	CORNER3	X	.003	.003	0	0
95	CORNER2	X	.003	.003	0	0
96	CORNER1	X	.003	.003	0	0
97	RAIL6	Y	-.002	-.002	0	0
98	RAIL6	X	.001	.001	0	0
99	RAIL5	Y	-.005	-.005	0	0
100	RAIL5	X	.003	.003	0	0
101	RAIL4	Y	-.005	-.005	0	0
102	RAIL4	X	.003	.003	0	0
103	PLATE4	Y	-.002	-.002	0	0
104	PLATE4	X	.001	.001	0	0
105	PLATE5	Y	-.002	-.002	0	0
106	PLATE5	X	.001	.001	0	0
107	PLATE6	Y	-.002	-.002	0	0
108	PLATE6	X	.001	.001	0	0

Member Distributed Loads (BLC 40 : BLC 2 Transient Area Loads)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	SUPPORT1	Z	-.006	-.006	.891	2.262
2	FACE3	Z	-.055	-.018	.486	.607
3	FACE3	Z	-.018	.001	.607	.729
4	FACE3	Z	.001	.001	.729	.85
5	FACE3	Z	.001	.001	.85	.971
6	FACE3	Z	.001	.001	.971	1.092
7	FACE3	Z	.001	-.015	1.092	1.213
8	FACE3	Z	-.015	-.024	1.213	1.334
9	FACE3	Z	-.024	-.008	1.334	1.455
10	FACE3	Z	-.008	.001	1.455	1.576
11	FACE3	Z	.001	-.008	1.576	1.697
12	FACE3	Z	-.008	-.024	1.697	1.819
13	FACE3	Z	-.024	-.015	1.819	1.94
14	FACE3	Z	-.015	.001	1.94	2.061

Member Distributed Loads (BLC 40 : BLC 2 Transient Area Loads) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
15	FACE3	Z	.001	.001	2.061	2.182
16	FACE3	Z	.001	.001	2.182	2.303
17	FACE3	Z	.001	.001	2.303	2.424
18	FACE3	Z	.001	-.018	2.424	2.545
19	FACE3	Z	-.018	-.055	2.545	2.666
20	FACE1	Z	-.000275	-.004	0	1.625
21	FACE1	Z	-.004	-.009	1.625	3.25
22	SUPPORT2	Z	-.007	-.007	.014	1.75
23	SUPPORT1	Z	-.007	-.006	0	.946
24	SUPPORT1	Z	-.006	-.004	.946	1.892
25	FACE3	Z	0	-.003	2.167	3.033
26	FACE3	Z	-.003	-.005	3.033	3.9
27	FACE3	Z	-.005	-.002	3.9	4.767
28	FACE3	Z	-.002	-.000295	4.767	5.633
29	FACE3	Z	-.000295	0	5.633	6.5
30	CORNER1	Z	-5.4e-5	-.007	2.069	2.69
31	CORNER1	Z	-.007	-.011	2.69	3.311
32	CORNER1	Z	-.011	-.006	3.311	3.932
33	CORNER1	Z	-.006	-.002	3.932	4.553
34	CORNER1	Z	-.002	-5.4e-5	4.553	5.174
35	32	Z	.000714	-.007	0	.125
36	32	Z	-.007	-.018	.125	.25
37	FACE3	Z	-.009	-.009	6.5	7.944
38	FACE3	Z	-.009	-.008	7.944	9.389
39	FACE3	Z	-.008	-.006	9.389	10.833
40	FACE2	Z	-.000296	-.002	4.333	5.633
41	FACE2	Z	-.002	-.008	5.633	6.933
42	FACE2	Z	-.008	-.012	6.933	8.233
43	FACE2	Z	-.012	-.007	8.233	9.533
44	FACE2	Z	-.007	-.000296	9.533	10.833
45	CORNER3	Z	-.004	-.007	0	1.035
46	CORNER3	Z	-.007	-.011	1.035	2.069
47	CORNER3	Z	-.011	-.012	2.069	3.104
48	CORNER3	Z	-.012	-.006	3.104	4.139
49	CORNER3	Z	-.006	-.000306	4.139	5.174
50	31	Z	.000481	-.006	0	.125
51	31	Z	-.006	-.015	.125	.25
52	FACE2	Z	-.004	-.008	0	1.083
53	FACE2	Z	-.008	-.013	1.083	2.167
54	FACE2	Z	-.013	-.011	2.167	3.25
55	FACE2	Z	-.011	-.006	3.25	4.333
56	FACE2	Z	-.006	-.005	4.333	5.417
57	FACE1	Z	-.003	-.008	5.417	7.222
58	FACE1	Z	-.008	-.007	7.222	9.027
59	FACE1	Z	-.007	-.001	9.027	10.833
60	CORNER2	Z	-.000985	-.01	.517	1.897
61	CORNER2	Z	-.01	-.013	1.897	3.277
62	CORNER2	Z	-.013	-.008	3.277	4.656

Member Distributed Loads (BLC 41 : BLC 5 Transient Area Loads)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]

Member Distributed Loads (BLC 41 : BLC 5 Transient Area Loads) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	SUPPORT1	Z	-.008	-.008	.891	2.262
2	FACE3	Z	-.082	-.026	.486	.607
3	FACE3	Z	-.026	.002	.607	.729
4	FACE3	Z	.002	.002	.729	.85
5	FACE3	Z	.002	.002	.85	.971
6	FACE3	Z	.002	.002	.971	1.092
7	FACE3	Z	.002	-.022	1.092	1.213
8	FACE3	Z	-.022	-.036	1.213	1.334
9	FACE3	Z	-.036	-.012	1.334	1.455
10	FACE3	Z	-.012	.002	1.455	1.576
11	FACE3	Z	.002	-.012	1.576	1.697
12	FACE3	Z	-.012	-.036	1.697	1.819
13	FACE3	Z	-.036	-.022	1.819	1.94
14	FACE3	Z	-.022	.002	1.94	2.061
15	FACE3	Z	.002	.002	2.061	2.182
16	FACE3	Z	.002	.002	2.182	2.303
17	FACE3	Z	.002	.002	2.303	2.424
18	FACE3	Z	.002	-.026	2.424	2.545
19	FACE3	Z	-.026	-.082	2.545	2.666
20	FACE1	Z	-.000413	-.007	0	1.625
21	FACE1	Z	-.007	-.013	1.625	3.25
22	SUPPORT2	Z	-.01	-.01	.014	1.75
23	SUPPORT1	Z	-.011	-.009	0	.946
24	SUPPORT1	Z	-.009	-.006	.946	1.892
25	FACE3	Z	0	-.004	2.167	3.033
26	FACE3	Z	-.004	-.007	3.033	3.9
27	FACE3	Z	-.007	-.003	3.9	4.767
28	FACE3	Z	-.003	-.000442	4.767	5.633
29	FACE3	Z	-.000442	0	5.633	6.5
30	CORNER1	Z	-8.1e-5	-.01	2.069	2.69
31	CORNER1	Z	-.01	-.016	2.69	3.311
32	CORNER1	Z	-.016	-.009	3.311	3.932
33	CORNER1	Z	-.009	-.003	3.932	4.553
34	CORNER1	Z	-.003	-8.1e-5	4.553	5.174
35	32	Z	.001	-.01	0	.125
36	32	Z	-.01	-.026	.125	.25
37	FACE3	Z	-.014	-.014	6.5	7.944
38	FACE3	Z	-.014	-.012	7.944	9.389
39	FACE3	Z	-.012	-.009	9.389	10.833
40	FACE2	Z	-.000443	-.003	4.333	5.633
41	FACE2	Z	-.003	-.012	5.633	6.933
42	FACE2	Z	-.012	-.018	6.933	8.233
43	FACE2	Z	-.018	-.011	8.233	9.533
44	FACE2	Z	-.011	-.000443	9.533	10.833
45	CORNER3	Z	-.006	-.01	0	1.035
46	CORNER3	Z	-.01	-.017	1.035	2.069
47	CORNER3	Z	-.017	-.019	2.069	3.104
48	CORNER3	Z	-.019	-.009	3.104	4.139
49	CORNER3	Z	-.009	-.00046	4.139	5.174
50	31	Z	.000721	-.009	0	.125
51	31	Z	-.009	-.023	.125	.25
52	FACE2	Z	-.002	-.014	0	1.083

Member Distributed Loads (BLC 41 : BLC 5 Transient Area Loads) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
53	FACE2	Z	-.014	-.017	1.083	2.167
54	FACE2	Z	-.017	-.015	2.167	3.25
55	FACE2	Z	-.015	-.013	3.25	4.333
56	FACE2	Z	-.013	-.006	4.333	5.417
57	FACE1	Z	-.001	-.015	5.417	7.222
58	FACE1	Z	-.015	-.015	7.222	9.027
59	FACE1	Z	-.015	-.001	9.027	10.833
60	CORNER2	Z	-.002	-.013	.517	2.069
61	CORNER2	Z	-.013	-.014	2.069	3.621
62	CORNER2	Z	-.014	-.005	3.621	5.174

Member Area Loads (BLC 2 : Dead Load)

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N1	N35	N34		Z	Two Way	-.01
2	N34	N36	N37	N7	Z	Two Way	-.01
3	N4	N5	N3		Z	Two Way	-.01
4	N8	N9	N2		Z	Two Way	-.01

Member Area Loads (BLC 5 : Ice Dead Load)

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N1	N35	N34		Z	Two Way	-.015
2	N34	N36	N37	N7	Z	Two Way	-.015
3	N4	N5	N3		Z	Two Way	-.015
4	N8	N9	N2		Z	Two Way	-.015

Basic Load Cases

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distribu...	Area(M...	Surface...
1	Wind Load (0)	WL					15	54		
2	Dead Load	DL			-1.1		15		4	
3	Live Load	LL					1			
4	Ice Wind Load (0)	OL1					15	54		
5	Ice Dead Load	OL2					15	48	4	
6	Wind Load (30)	WL					30	108		
7	Ice Wind Load (30)	OL1					30	108		
8	Wind Load (60)	WL					30	108		
9	Ice Wind Load (60)	OL1					30	108		
10	Wind Load (90)	WL					15	54		
11	Ice Wind Load (90)	OL1					15	54		
12	Wind Load (120)	WL					30	108		
13	Ice Wind Load (120)	OL1					30	108		
14	Wind Load (150)	WL					30	108		
15	Ice Wind Load (150)	OL1					30	108		
16	Wind Load (180)	WL					15	54		
17	Ice Wind Load (180)	OL1					15	54		
18	Wind Load (210)	WL					30	108		
19	Ice Wind Load (210)	OL1					30	108		
20	Wind Load (240)	WL					30	108		
21	Ice Wind Load (240)	OL1					30	108		

Basic Load Cases (Continued)

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distribu...	Area (M...	Surface...
22	Wind Load (270)	WL					15	54		
23	Ice Wind Load (270)	OL1					15	54		
24	Wind Load (300)	WL					30	108		
25	Ice Wind Load (300)	OL1					30	108		
26	Wind Load (330)	WL					30	108		
27	Ice Wind Load (330)	OL1					30	108		
28	Maintanence (0)	OL3					15			
29	Maintanence (30)	OL3					30			
30	Maintanence (60)	OL3					30			
31	Maintanence (90)	OL3					15			
32	Maintanence (120)	OL3					30			
33	Maintanence (150)	OL3					30			
34	Maintanence (180)	OL3					15			
35	Maintanence (210)	OL3					30			
36	Maintanence (240)	OL3					30			
37	Maintanence (270)	OL3					15			
38	Maintanence (300)	OL3					30			
39	Maintanence (330)	OL3					30			
40	BLC 2 Transient Area Loads	None						62		
41	BLC 5 Transient Area Loads	None						62		

Load Combinations

	Description	Solve	P...	S...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...
1	1.4D	Yes	Y		2	1.4																				
2	1.2D + 1.6W(0)	Yes	Y		2	1.2	1	1.6																		
3	1.2D + 1.0Di + 1.0Wi(0)	Yes	Y		2	1.2	5	1	4	1																
4	1.2D + 1.5L + 1.0Wl(0)	Yes	Y		2	1.2	3	1.5	28	1																
5	1.2D + 1.6W(30)	Yes	Y		2	1.2	6	1.6																		
6	1.2D + 1.0Di + 1.0Wi(30)	Yes	Y		2	1.2	5	1	7	1																
7	1.2D + 1.5L + 1.0Wl(30)	Yes	Y		2	1.2	3	1.5	29	1																
8	1.2D + 1.6W(60)	Yes	Y		2	1.2	8	1.6																		
9	1.2D + 1.0Di + 1.0Wi(60)	Yes	Y		2	1.2	5	1	9	1																
10	1.2D + 1.5L + 1.0Wl(60)	Yes	Y		2	1.2	3	1.5	30	1																
11	1.2D + 1.6W(90)	Yes	Y		2	1.2	10	1.6																		
12	1.2D + 1.0Di + 1.0Wi(90)	Yes	Y		2	1.2	5	1	11	1																
13	1.2D + 1.5L + 1.0Wl(90)	Yes	Y		2	1.2	3	1.5	31	1																
14	1.2D + 1.6W(120)	Yes	Y		2	1.2	12	1.6																		
15	1.2D + 1.0Di + 1.0Wi(120)	Yes	Y		2	1.2	5	1	13	1																
16	1.2D + 1.5L + 1.0Wl(120)	Yes	Y		2	1.2	3	1.5	32	1																
17	1.2D + 1.6W(150)	Yes	Y		2	1.2	14	1.6																		
18	1.2D + 1.0Di + 1.0Wi(150)	Yes	Y		2	1.2	5	1	15	1																
19	1.2D + 1.5L + 1.0Wl(150)	Yes	Y		2	1.2	3	1.5	33	1																
20	1.2D + 1.6W(180)	Yes	Y		2	1.2	16	1.6																		
21	1.2D + 1.0Di + 1.0Wi(180)	Yes	Y		2	1.2	5	1	17	1																
22	1.2D + 1.5L + 1.0Wl(180)	Yes	Y		2	1.2	3	1.5	34	1																
23	1.2D + 1.6W(210)	Yes	Y		2	1.2	18	1.6																		
24	1.2D + 1.0Di + 1.0Wi(210)	Yes	Y		2	1.2	5	1	19	1																
25	1.2D + 1.5L + 1.0Wl(210)	Yes	Y		2	1.2	3	1.5	35	1																
26	1.2D + 1.6W(240)	Yes	Y		2	1.2	20	1.6																		
27	1.2D + 1.0Di + 1.0Wi(240)	Yes	Y		2	1.2	5	1	21	1																

Load Combinations (Continued)

	Description	Solve	P...	S...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...
28	1.2D + 1.5L + 1.0W I(240)	Yes	Y		2	1.2	3	1.5	36	1															
29	1.2D + 1.6W(270)	Yes	Y		2	1.2	22	1.6																	
30	1.2D + 1.0Di + 1.0W i(270)	Yes	Y		2	1.2	5	1	23	1															
31	1.2D + 1.5L + 1.0W I(270)	Yes	Y		2	1.2	3	1.5	37	1															
32	1.2D + 1.6W(300)	Yes	Y		2	1.2	24	1.6																	
33	1.2D + 1.0Di + 1.0W i(300)	Yes	Y		2	1.2	5	1	25	1															
34	1.2D + 1.5L + 1.0W I(300)	Yes	Y		2	1.2	3	1.5	38	1															
35	1.2D + 1.6W(330)	Yes	Y		2	1.2	26	1.6																	
36	1.2D + 1.0Di + 1.0W i(330)	Yes	Y		2	1.2	5	1	27	1															
37	1.2D + 1.5L + 1.0W I(330)	Yes	Y		2	1.2	3	1.5	39	1															

Envelope AISC 14th(360-10): LRFD Steel Code Checks

	Member	Shape	Code Ch...	Loc[ft]	LC	Shear C...	Loc[ft]	Dir	LC	phi*Pn...	phi*Pn...	phi*M...	phi*M...	...	Eqn
1	FACE3	C5X9	1.000	5.078	20	.298	5.417	z	23	33.361	85.536	1.909	11.853	1...	H1-1b
2	FACE2	C5X9	.923	5.755	32	.265	5.417	z	17	33.361	85.536	1.909	10.385	1	H1-1b
3	FACE1	C5X9	.817	5.078	29	.225	5.417	z	29	33.361	85.536	1.909	10.385	1	H1-1b
4	CORNER3	C5X9	.479	2.964	17	.198	2.263	y	24	36.252	85.536	1.909	11.853	1...	H1-1a
5	CORNER2	C5X9	.462	2.21	35	.181	2.263	y	9	36.252	85.536	1.909	11.853	1...	H1-1a
6	CORNER1	C5X9	.454	2.964	5	.186	2.91	y	36	36.252	85.536	1.909	11.853	1...	H1-1a
7	MP GAMMA5	PIPE_2.0	.427	3.573	24	.084	3.5		9	17.855	32.13	1.872	1.872	1...	H1-1b
8	SUPPORT1	C5X6.7	.379	2.299	26	.036	2.332	z	8	46.542	63.828	1.604	9.585	1...	H1-1b
9	MP BETA4	PIPE_2.0	.342	3.573	14	.145	3.573		14	17.855	32.13	1.872	1.872	3...	H1-1b
10	MP BETA3	PIPE_2.0	.319	3.573	35	.186	3.573		5	17.855	32.13	1.872	1.872	1...	H1-1b
11	MP BETA2	PIPE_2.0	.307	3.573	36	.185	3.573		32	17.855	32.13	1.872	1.872	1...	H1-1b
12	MP BETA5	PIPE_2.0	.300	3.573	36	.104	3.5		17	17.855	32.13	1.872	1.872	1...	H1-1b
13	RAIL6	PIPE_2.0	.267	4.507	3	.110	4.404		17	10.174	32.13	1.872	1.872	2...	H1-1b
14	MP ALPHA3	PIPE_2.0	.261	3.573	9	.244	3.573		17	17.855	32.13	1.872	1.872	1...	H1-1b
15	Rail3	PIPE_2.0	.251	4.507	24	.100	4.404		35	10.174	32.13	1.872	1.872	2...	H1-1b
16	LADDER2	L1.75x1.75x4	.250	6.464	32	.015	4.958	z	5	2.056	26.325	.513	1.034	1...	H2-1
17	MP GAMMA3	PIPE_2.0	.248	3.573	24	.201	3.573		26	17.855	32.13	1.872	1.872	1...	H1-1b
18	LADDER1	L1.75x1.75x4	.242	6.464	17	.015	4.958	y	8	2.056	26.325	.513	1.046	1...	H2-1
19	MP GAMMA2	PIPE_2.0	.237	3.573	24	.158	3.573		20	17.855	32.13	1.872	1.872	1...	H1-1b
20	MP ALPHA4	PIPE_2.0	.226	3.573	29	.130	3.573		26	17.855	32.13	1.872	1.872	1...	H1-1b
21	PLATE4	L2.5x2.5x4	.225	0	35	.016	0	y	29	35.827	38.556	1.114	2.537	1...	H2-1
22	MP GAMMA4	PIPE_2.0	.221	3.573	17	.200	3.573		2	17.855	32.13	1.872	1.872	1...	H1-1b
23	MP ALPHA2	PIPE_2.0	.218	3.573	12	.125	3.573		8	17.855	32.13	1.872	1.872	1...	H1-1b
24	MP ALPHA5	PIPE_2.0	.217	3.573	12	.097	3.5		32	17.855	32.13	1.872	1.872	1...	H1-1b
25	RAIL5	PIPE_2.0	.216	3.483	36	.120	6.453		14	10.174	32.13	1.872	1.872	2...	H1-1b
26	PLATE5	L2.5x2.5x4	.206	0	11	.020	1.5	z	5	35.827	38.556	1.114	2.537	1...	H2-1
27	Rail2	PIPE_2.0	.202	3.483	15	.116	6.453		32	10.174	32.13	1.872	1.872	2...	H1-1b
28	RUNG3	SR 5/8	.188	0	26	.023	1		8	7.287	9.94	.104	.104	2...	H1-1b
29	RAIL4	PIPE_2.0	.184	2.561	12	.078	7.58		8	10.174	32.13	1.872	1.872	1...	H1-1b
30	Rail1	PIPE_2.0	.177	2.561	30	.085	8.809		29	10.174	32.13	1.872	1.872	1...	H1-1b
31	RUNG2	SR 5/8	.177	0	26	.017	1		8	7.287	9.94	.104	.104	2...	H1-1b
32	PLATE2	L2.5x2.5x4	.163	0	32	.009	1.5	z	20	35.827	38.556	1.114	2.537	1...	H2-1
33	RUNG4	SR 5/8	.161	0	26	.023	1		8	7.287	9.94	.104	.104	2...	H1-1b
34	RUNG1	SR 5/8	.160	0	26	.011	1		5	7.287	9.94	.104	.104	2...	H1-1b
35	PLATE3	L2.5x2.5x4	.157	0	17	.010	1.5	z	31	35.827	38.556	1.114	2.537	1...	H2-1
36	PLATE6	L2.5x2.5x4	.152	1.5	20	.020	1.5	z	20	35.827	38.556	1.114	2.537	2...	H2-1
37	PLATE1	L2.5x2.5x4	.130	1.5	9	.016	1.5	y	18	35.827	38.556	1.114	2.537	1...	H2-1

Envelope AISC 14th(360-10): LRFD Steel Code Checks (Continued)

	Member	Shape	Code Ch...	Loc[ft]	LC	Shear C...	Loc[ft]	Dir	LC	phi*Pn...	phi*Pn...	phi*M...	phi*M...	...	Eqn
38	Standoff1	MC6X7	.114	0	27	.026	.458	y	29	65.96	67.716	1.889	12.15	1...	H1-1b
39	Standoff2	MC6X7	.114	0	9	.026	.458	y	11	65.96	67.716	1.889	12.15	1...	H1-1b
40	Standoff6	MC6X7	.097	0	20	.044	.49	y	23	65.96	67.716	1.889	12.15	1...	H1-1b
41	Standoff3	MC6X7	.088	0	15	.022	.417	y	17	65.96	67.716	1.889	12.15	1...	H1-1b
42	Standoff4	MC6X7	.088	0	33	.022	.417	y	35	65.96	67.716	1.889	12.15	1...	H1-1b
43	Standoff5	MC6X7	.086	0	33	.015	.375	z	27	65.96	67.716	1.889	12.15	2...	H1-1b
44	MP ALPHA6	PIPE_2.0	.082	3.5	2	.029	3.5		2	17.855	32.13	1.872	1.872	1...	H1-1b
45	MP BETA1	PIPE_2.0	.074	3.5	23	.029	3.5		24	17.855	32.13	1.872	1.872	1...	H1-1b
46	MP GAMMA1	PIPE_2.0	.059	3.281	2	.044	3.281		2	17.855	32.13	1.872	1.872	2...	H1-1b
47	MP BETA6	PIPE_2.0	.053	3.792	20	.028	3.281		3	17.855	32.13	1.872	1.872	1...	H1-1b
48	MP GAMMA6	PIPE_2.0	.053	3.792	11	.022	3.281		27	17.855	32.13	1.872	1.872	2...	H1-1b
49	MP ALPHA1	PIPE_2.0	.053	3.792	11	.035	3.281		23	17.855	32.13	1.872	1.872	2...	H1-1b
50	RUNG5	SR 5/8	.047	1	8	.009	0		27	7.287	9.94	.104	.104	2...	H1-1b
51	MP ALPHA7	PIPE_2.0	.032	0	20	.005	0		20	29.81	32.13	1.872	1.872	2...	H1-1b
52	MP ALPHA8	PIPE_2.0	.032	0	8	.005	0		8	29.81	32.13	1.872	1.872	2...	H1-1b
53	SUPPORT2	C5X6.7	.029	.93	20	.482	1.75	z	35	57.91	63.828	1.604	9.585	1...	H1-1b
54	RUNG6	SR 5/8	.019	1	26	.017	1		26	7.287	9.94	.104	.104	2...	H1-1b

Exhibit F

Power Density/RF Emissions Report

Site Name: NEWTOWN 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	4890	19558.53	185	0.2055	1.0	20.55%
VZW Cellular CDMA	869	3	498	1494	185	0.0157	0.579333333	2.71%
VZW Cellular LTE	880	4	1543	6170.3	185	0.0648	0.586666667	11.05%
VZW AWS	2145	4	5486	21945.03	185	0.2306	1.0	23.06%
VZW 700	746	4	2814	11254.76	185	0.1183	0.497333333	23.78%
VZW CBRS	3550	4	31	122.24	185	0.0013	2.366666667	0.05%

Total Percentage of Maximum Permissible Exposure 81.20%

*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.