RAMAKER
employee-owned

February 9, 2022

Tamara Shiveley
Smartlink
1997 Annapolis Exchange Parkway, Suite 200
Annapolis, MD. 21401

Ramaker & Associates, Inc.
855 Community Drive
Sauk City, WI 53583

SUBJECT: **STRUCTURAL ASSESSMENT**

CARRIER: **AT&T**

SITE: **HUMANA (COL01176)**
ADDRESS: **1501 SOUTH POTOMAC STREET**
AURORA, ARAPAHOE COUNTY, COLORADO 80045
LATITUDE: **39.6896278°**
LONGITUDE: **-104.8326339°**
FA LOCATION CODE: **10093833**
SCOPE: **5G NR 1SR/ 5G NR/ 5G NR/ 5G NR 1SR**
PACE NUMBER: **MRUTH049238/ MRUTH049032/ MRUTH049031/ MRUTH049075**
PTN NUMBER: **3755A12GGB/ N/A/ 3755A12GGA/ 3755A0EP5T**

RAMAKER & ASSOCIATES PROJECT NUMBER: 54003

RESULTS: **MOUNT:** **PASS** ***7.7%***
SUPPORTING STRUCTURE: **PASS**

Dear Tamara Shiveley:

Ramaker & Associates, Inc. (RAMAKER) respectfully submits this structural assessment for the above-mentioned site. The purpose of this report is to determine the structural integrity of the structure(s) with the proposed loading configurations. Engineering recommendations regarding the analysis results are provided in the following pages.

RAMAKER analyzed the structure(s) using accepted engineering practices. All information contained herein is valid only for the described structure configuration and loading conditions. RAMAKER reserves the right to modify our recommendations should alterations to the structure(s) loading occur.

If you have any questions or comments, please do not hesitate to contact our office.

Sincerely,

RAMAKER & ASSOCIATES, INC.

James M. Alvin
Structural Designer

Michael L. Pinske, P.E.
Supervising Engineer

COLORADO LICENSED
MICHAEL L. PINSKE
PE.0050800
PROFESSIONAL ENGINEER

Structural plan review is limited to a general survey for code compliance. No review is implied nor was undertaken to verify structural adequacy.

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ANALYSIS CRITERIA

Building Code	2021 IBC
TIA-222 Revision	TIA-222-H
Risk Category	II
Ultimate Design Wind Speed, V_{ult}	107 mph (3 sec. gust)
Design Wind Speed w/ Ice	50 mph (3 sec. gust)
Ice Thickness	1/4 inch
Exposure Category	C
Topographic Feature	None

SUPPORTING DOCUMENTATION

- Final RFDS version 1.00 by AT&T, RFDS ID: 4811886, dated 1/17/2022
- Construction drawings by RAMAKER, project number 54003
- Other pertinent data procured or assumed by RAMAKER during site due diligence activities

MOUNT LOADING

RAMAKER understands that the loading to be used for this analysis will consist of the antennas and equipment configurations as shown in the following chart(s):

Equipment Loading Summary			
Elevation	**Appurtenance**	**Mount Type**	**Status**
74 73	**(3) Powerwave 7750**	(12) Mount Pipes in RF-Transparent Enclosure	**Remove**
	(3) Powerwave TT19-08BP111-001		
	(6) Powerwave CM1007-DBPXBC-003		
	(6) Commscope NNH4-65C		Existing
	(3) Commscope SBJAH4-1D65C-DL		
	(3) ALU B25 RRH4x30-4R		
	(3) ALU RRH4x25-WCS-4R		
	(3) Nokia AHCA		
	(3) Nokia AHLBA		
	(3) Nokia AHFIB		
	(3) Raycap DC6-48-60-18-8F		
	(3) Nokia AEQK		**Proposed**
	(3) Nokia AEQU		
	(3) Raycap DC9-48-60-24-8C-EV		

RESULTS

The maximum mount member stress capacities under the loading conditions previously described are as follows:

Component Type	Percent Capacity	Pass/Fail
Mount Pipe	7.7	Pass
RATING	**7.7**	**PASS**

By engineering calculation and inspection, the antenna and equipment mounting structure(s) are capable of supporting the proposed loading configurations without causing an overstress condition in the antenna and equipment mounting structure(s).

As a result of the proposed loading configurations, the building structure will experience a negligible increase in dead and wind loads from what are currently present. Therefore, it is RAMAKER's assessment that the associated building structure in each sector will provide adequate support for the proposed loading configurations.

ASSUMPTIONS

This analysis is based on the theoretical design capacity of the members and is not a condition assessment of the structure. This analysis is based on the information supplied and the results are only as accurate as the data obtained from this information. The Scope of Work for RAMAKER did not require verification of the provided information. The following assumptions were made for this structural analysis.

1) The mounts were built and maintained in accordance with the manufacturer's drawings and specifications and including the TIA Standards.
2) All structural members are in good condition and can achieve their full design capacity. All welds and connections can develop the full member capacity unless determined otherwise and explicitly stated in this report.
3) No physical deterioration has occurred in any of the structural components. No allowance was made for any damaged, missing, or rusted members, nor loose bolts or cracked welds.
4) All prior structural modifications, if any, are assumed to be properly installed and fully effective.
5) Information provided by the client regarding the structure, appurtenances, transmission cables, and other relevant information is assumed to be current and correct. Appurtenance sizes and weights as specified in the loading tables are best estimates and based on available information, if explicit documentation is not provided to RAMAKER. If the loading configuration is different than stated, then this analysis is invalid.
6) Mount steel grades meet the values as stated, unless noted otherwise:
    - Channel, Solid Round, Angle, Plate — ASTM A36 (GR 36)
    - Wide Flange — ASTM A992 (GR 50)
    - HSS (Rectangular) — ASTM 500 (GR B-46)
    - Pipe — ASTM A53 (GR 35)
    - Unistrut — ASTM A653 SS (GR 33)
    - Threaded Rod — ASTM F1554 (GR 36)
    - Connection Bolt — ASTM A325

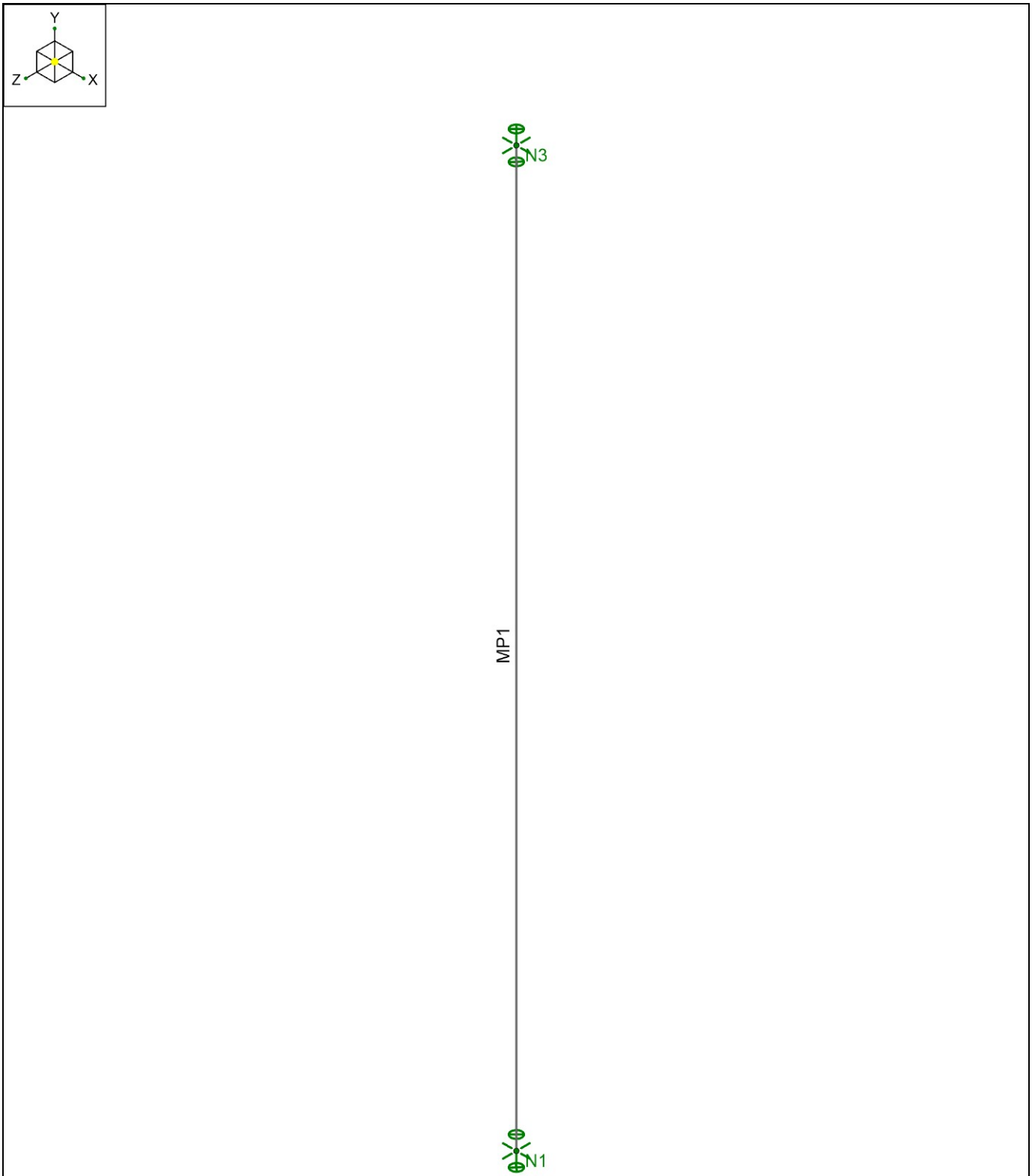
This analysis may be affected if any assumptions are not valid or have been made in error. RAMAKER should be notified to determine the effect on the structural integrity of the mount.

SCOPE AND LIMITATIONS

The engineering services performed by RAMAKER regarding this report are limited to an analysis of the mount and the capacity of its members. RAMAKER will accept no liability which may arise due to any existing deficiency in design, material, fabrication, erection, construction, or lack of maintenance. RAMAKER makes no warranties, expressed or implied in connection with this report and disclaims any liability arising from original design, material, fabrication and erection deficiencies or the "as-built" condition of this structure.

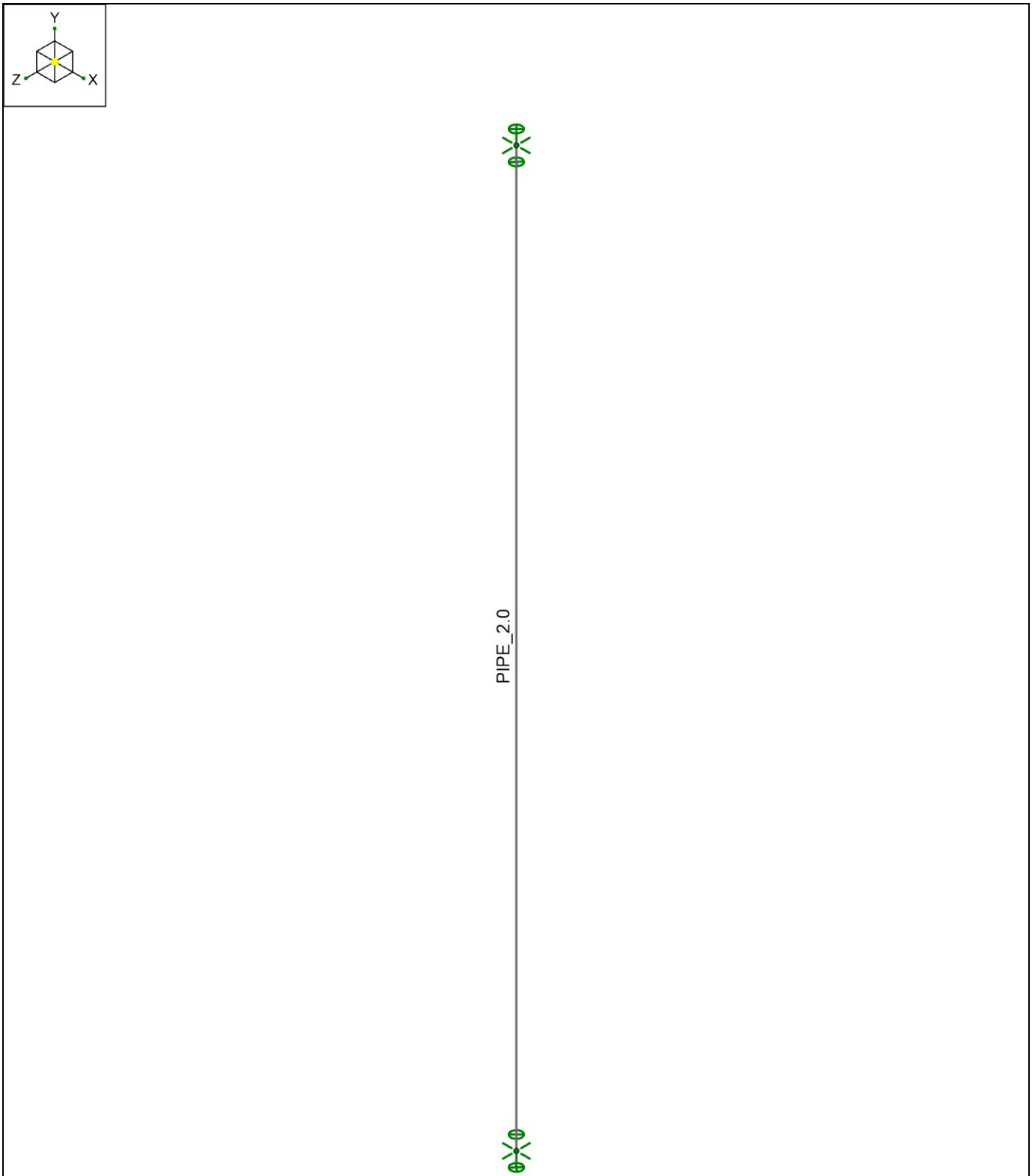
ATTACHMENTS

- Analysis Figures
- Analysis Calculations



Envelope Only Solution

Ramaker & Associates, Inc.	Humana (COL01176)	SK-1
JMA		Feb 09, 2022
54003		54003 Mount.r3d



Envelope Only Solution

Ramaker & Associates, Inc.	Humana (COL01176)	SK-2
JMA		Feb 09, 2022
54003		54003 Mount.r3d

Hot Rolled Steel Properties

	Label	E [ksi]	G [ksi]	Nu	Therm. Coeff. [1e⁵°F⁻¹]	Density [k/ft³]	Yield [ksi]	Ry	Fu [ksi]	Rt
1	A992	29000	11154	0.3	0.65	0.49	50	1.1	65	1.1
2	A36 Gr.36	29000	11154	0.3	0.65	0.49	36	1.5	58	1.2
3	A572 Gr.50	29000	11154	0.3	0.65	0.49	50	1.1	65	1.1
4	A500 Gr.B RND	29000	11154	0.3	0.65	0.527	42	1.4	58	1.3
5	A500 Gr.B Rect	29000	11154	0.3	0.65	0.527	46	1.4	58	1.3
6	A53 Gr.B	29000	11154	0.3	0.65	0.49	35	1.6	60	1.2
7	A1085	29000	11154	0.3	0.65	0.49	50	1.25	65	1.15
8	A913 Gr.65	29000	11154	0.3	0.65	0.49	65	1.1	80	1.1

Hot Rolled Steel Section Sets

	Label	Shape	Type	Design List	Material	Design Rule	Area [in²]	Iyy [in⁴]	Izz [in⁴]	J [in⁴]
1	PIPE_2.0	PIPE_2.0	Beam	Pipe	A53 Gr.B	Typical	1.02	0.627	0.627	1.25

Member Primary Data

	Label	I Node	J Node	Section/Shape	Type	Design List	Material	Design Rule
1	MP1	N1	N3	PIPE_2.0	Beam	Pipe	A53 Gr.B	Typical

Basic Load Cases

	BLC Description	Category	Y Gravity	Point	Distributed
1	Antenna Dead	None		4	
2	Antenna Wind 0	None		8	
3	Antenna Wind 30	None		8	
4	Antenna Wind 45	None		8	
5	Antenna Wind 60	None		8	
6	Antenna Wind 90	None		8	
7	Antenna Wind 120	None		8	
8	Antenna Wind 135	None		8	
9	Antenna Wind 150	None		8	
10	Antenna Wind 180	None		8	
11	Antenna Wind 210	None		8	
12	Antenna Wind 225	None		8	
13	Antenna Wind 240	None		8	
14	Antenna Wind 270	None		8	
15	Antenna Wind 300	None		8	
16	Antenna Wind 315	None		8	
17	Antenna Wind 330	None		8	
18	Antenna Ice Dead	None		4	
19	Antenna Wind w/Ice 0	None		8	
20	Antenna Wind w/Ice 30	None		8	
21	Antenna Wind w/Ice 45	None		8	
22	Antenna Wind w/Ice 60	None		8	
23	Antenna Wind w/Ice 90	None		8	
24	Antenna Wind w/Ice 120	None		8	
25	Antenna Wind w/Ice 135	None		8	
26	Antenna Wind w/Ice 150	None		8	
27	Antenna Wind w/Ice 180	None		8	
28	Antenna Wind w/Ice 210	None		8	
29	Antenna Wind w/Ice 225	None		8	
30	Antenna Wind w/Ice 240	None		8	
31	Antenna Wind w/Ice 270	None		8	
32	Antenna Wind w/Ice 300	None		8	

Basic Load Cases (Continued)

	BLC Description	Category	Y Gravity	Point	Distributed
33	Antenna Wind w/Ice 315	None		8	
34	Antenna Wind w/Ice 330	None		8	
35	Member Dead	None	-1		
36	Member Wind 0	None			2
37	Member Wind 30	None			2
38	Member Wind 45	None			2
39	Member Wind 60	None			2
40	Member Wind 90	None			2
41	Member Wind 120	None			2
42	Member Wind 135	None			2
43	Member Wind 150	None			2
44	Member Wind 180	None			2
45	Member Wind 210	None			2
46	Member Wind 225	None			2
47	Member Wind 240	None			2
48	Member Wind 270	None			2
49	Member Wind 300	None			2
50	Member Wind 315	None			2
51	Member Wind 330	None			2
52	Member Ice Dead	None			1
53	Member Wind w/Ice 0	None			2
54	Member Wind w/Ice 30	None			2
55	Member Wind w/Ice 45	None			2
56	Member Wind w/Ice 60	None			2
57	Member Wind w/Ice 90	None			2
58	Member Wind w/Ice 120	None			2
59	Member Wind w/Ice 135	None			2
60	Member Wind w/Ice 150	None			2
61	Member Wind w/Ice 180	None			2
62	Member Wind w/Ice 210	None			2
63	Member Wind w/Ice 225	None			2
64	Member Wind w/Ice 240	None			2
65	Member Wind w/Ice 270	None			2
66	Member Wind w/Ice 300	None			2
67	Member Wind w/Ice 315	None			2
68	Member Wind w/Ice 330	None			2
69	LV-1	None			
70	LV-2	None			
71	LV-3	None			
72	LV-4	None			
73	LV-5	None			
74	LV-6	None			
75	LV-7	None			
76	LV-8	None			
77	LV-9	None			
78	LV-10	None			
79	LV-11	None			
80	LV-12	None			
81	LV-13	None			
82	LV-14	None			
83	LV-15	None			
84	LM-1	None			
85	LM-2	None			
86	LM-3	None			
87	LM-4	None			

Basic Load Cases (Continued)

	BLC Description	Category	Y Gravity	Point	Distributed
88	LM-5	None			
89	LM-6	None			
90	LM-7	None			
91	LM-8	None			
92	LM-9	None			
93	LM-10	None			
94	LM-11	None			
95	LM-12	None			
96	LM-13	None			
97	LM-14	None			
98	LM-15	None			

Load Combinations

	Description	Solve	P-Delta	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor
1	1.4D	Yes	Y	1	1.4	35	1.4								
2	0.9D + 1.0 (0-Wind)	Yes	Y	1	0.9	35	0.9	2	1	36	1				
3	0.9D + 1.0 (30-Wind)	Yes	Y	1	0.9	35	0.9	3	1	37	1				
4	0.9D + 1.0 (45-Wind)	Yes	Y	1	0.9	35	0.9	4	1	38	1				
5	0.9D + 1.0 (60-Wind)	Yes	Y	1	0.9	35	0.9	5	1	39	1				
6	0.9D + 1.0 (90-Wind)	Yes	Y	1	0.9	35	0.9	6	1	40	1				
7	0.9D + 1.0 (120-Wind)	Yes	Y	1	0.9	35	0.9	7	1	41	1				
8	0.9D + 1.0 (135-Wind)	Yes	Y	1	0.9	35	0.9	8	1	42	1				
9	0.9D + 1.0 (150-Wind)	Yes	Y	1	0.9	35	0.9	9	1	43	1				
10	0.9D + 1.0 (180-Wind)	Yes	Y	1	0.9	35	0.9	10	1	44	1				
11	0.9D + 1.0 (210-Wind)	Yes	Y	1	0.9	35	0.9	11	1	45	1				
12	0.9D + 1.0 (225-Wind)	Yes	Y	1	0.9	35	0.9	12	1	46	1				
13	0.9D + 1.0 (240-Wind)	Yes	Y	1	0.9	35	0.9	13	1	47	1				
14	0.9D + 1.0 (270-Wind)	Yes	Y	1	0.9	35	0.9	14	1	48	1				
15	0.9D + 1.0 (300-Wind)	Yes	Y	1	0.9	35	0.9	15	1	49	1				
16	0.9D + 1.0 (315-Wind)	Yes	Y	1	0.9	35	0.9	16	1	50	1				
17	0.9D + 1.0 (330-Wind)	Yes	Y	1	0.9	35	0.9	17	1	51	1				
18	1.2D + 1.0 (0-Wind)	Yes	Y	1	1.2	35	1.2	2	1	36	1				
19	1.2D + 1.0 (30-Wind)	Yes	Y	1	1.2	35	1.2	3	1	37	1				
20	1.2D + 1.0 (45-Wind)	Yes	Y	1	1.2	35	1.2	4	1	38	1				
21	1.2D + 1.0 (60-Wind)	Yes	Y	1	1.2	35	1.2	5	1	39	1				
22	1.2D + 1.0 (90-Wind)	Yes	Y	1	1.2	35	1.2	6	1	40	1				
23	1.2D + 1.0 (120-Wind)	Yes	Y	1	1.2	35	1.2	7	1	41	1				
24	1.2D + 1.0 (135-Wind)	Yes	Y	1	1.2	35	1.2	8	1	42	1				
25	1.2D + 1.0 (150-Wind)	Yes	Y	1	1.2	35	1.2	9	1	43	1				
26	1.2D + 1.0 (180-Wind)	Yes	Y	1	1.2	35	1.2	10	1	44	1				
27	1.2D + 1.0 (210-Wind)	Yes	Y	1	1.2	35	1.2	11	1	45	1				
28	1.2D + 1.0 (225-Wind)	Yes	Y	1	1.2	35	1.2	12	1	46	1				
29	1.2D + 1.0 (240-Wind)	Yes	Y	1	1.2	35	1.2	13	1	47	1				
30	1.2D + 1.0 (270-Wind)	Yes	Y	1	1.2	35	1.2	14	1	48	1				
31	1.2D + 1.0 (300-Wind)	Yes	Y	1	1.2	35	1.2	15	1	49	1				
32	1.2D + 1.0 (315-Wind)	Yes	Y	1	1.2	35	1.2	16	1	50	1				
33	1.2D + 1.0 (330-Wind)	Yes	Y	1	1.2	35	1.2	17	1	51	1				
34	1.2D + 1.0Di + 1.0 (0-Wind Ice)	Yes	Y	1	1.2	35	1.2	18	1	52	1	19	1	53	1
35	1.2D + 1.0Di + 1.0 (30-Wind Ice)	Yes	Y	1	1.2	35	1.2	18	1	52	1	20	1	54	1
36	1.2D + 1.0Di + 1.0 (45-Wind Ice)	Yes	Y	1	1.2	35	1.2	18	1	52	1	21	1	55	1
37	1.2D + 1.0Di + 1.0 (60-Wind Ice)	Yes	Y	1	1.2	35	1.2	18	1	52	1	22	1	56	1
38	1.2D + 1.0Di + 1.0 (90-Wind Ice)	Yes	Y	1	1.2	35	1.2	18	1	52	1	23	1	57	1
39	1.2D + 1.0Di + 1.0 (120-Wind Ice)	Yes	Y	1	1.2	35	1.2	18	1	52	1	24	1	58	1
40	1.2D + 1.0Di + 1.0 (135-Wind Ice)	Yes	Y	1	1.2	35	1.2	18	1	52	1	25	1	59	1
41	1.2D + 1.0Di + 1.0 (150-Wind Ice)	Yes	Y	1	1.2	35	1.2	18	1	52	1	26	1	60	1

Load Combinations (Continued)

	Description	Solve	P-Delta	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor
42	1.2D + 1.0Di + 1.0 (180-Wind Ice)	Yes	Y	1	1.2	35	1.2	18	1	52	1	27	1	61	1
43	1.2D + 1.0Di + 1.0 (210-Wind Ice)	Yes	Y	1	1.2	35	1.2	18	1	52	1	28	1	62	1
44	1.2D + 1.0Di + 1.0 (225-Wind Ice)	Yes	Y	1	1.2	35	1.2	18	1	52	1	29	1	63	1
45	1.2D + 1.0Di + 1.0 (240-Wind Ice)	Yes	Y	1	1.2	35	1.2	18	1	52	1	30	1	64	1
46	1.2D + 1.0Di + 1.0 (270-Wind Ice)	Yes	Y	1	1.2	35	1.2	18	1	52	1	31	1	65	1
47	1.2D + 1.0Di + 1.0 (300-Wind Ice)	Yes	Y	1	1.2	35	1.2	18	1	52	1	32	1	66	1
48	1.2D + 1.0Di + 1.0 (315-Wind Ice)	Yes	Y	1	1.2	35	1.2	18	1	52	1	33	1	67	1
49	1.2D + 1.0Di + 1.0 (330-Wind Ice)	Yes	Y	1	1.2	35	1.2	18	1	52	1	34	1	68	1
50	1.2D + 1.5LV-1	Yes	Y	1	1.2	35	1.2	69	1.5						
51	1.2D + 1.5LV-2	Yes	Y	1	1.2	35	1.2	70	1.5						
52	1.2D + 1.5LV-3	Yes	Y	1	1.2	35	1.2	71	1.5						
53	1.2D + 1.5LV-4	Yes	Y	1	1.2	35	1.2	72	1.5						
54	1.2D + 1.5LV-5	Yes	Y	1	1.2	35	1.2	73	1.5						
55	1.2D + 1.5LV-6	Yes	Y	1	1.2	35	1.2	74	1.5						
56	1.2D + 1.5LV-7	Yes	Y	1	1.2	35	1.2	75	1.5						
57	1.2D + 1.5LV-8	Yes	Y	1	1.2	35	1.2	76	1.5						
58	1.2D + 1.5LV-9	Yes	Y	1	1.2	35	1.2	77	1.5						
59	1.2D + 1.5LV-10	Yes	Y	1	1.2	35	1.2	78	1.5						
60	1.2D + 1.5LV-11	Yes	Y	1	1.2	35	1.2	79	1.5						
61	1.2D + 1.5LV-12	Yes	Y	1	1.2	35	1.2	80	1.5						
62	1.2D + 1.5LV-13	Yes	Y	1	1.2	35	1.2	81	1.5						
63	1.2D + 1.5LV-14	Yes	Y	1	1.2	35	1.2	82	1.5						
64	1.2D + 1.5LV-15	Yes	Y	1	1.2	35	1.2	83	1.5						
65	1.2D + 1.5LM-1 + Maintenance (0-Wind)	Yes	Y	1	1.2	35	1.2	84	1.5	2	0.087	36	0.087		
66	1.2D + 1.5LM-1 + Maintenance (30-Wind)	Yes	Y	1	1.2	35	1.2	84	1.5	3	0.087	37	0.087		
67	1.2D + 1.5LM-1 + Maintenance (45-Wind)	Yes	Y	1	1.2	35	1.2	84	1.5	4	0.087	38	0.087		
68	1.2D + 1.5LM-1 + Maintenance (60-Wind)	Yes	Y	1	1.2	35	1.2	84	1.5	5	0.087	39	0.087		
69	1.2D + 1.5LM-1 + Maintenance (90-Wind)	Yes	Y	1	1.2	35	1.2	84	1.5	6	0.087	40	0.087		
70	1.2D + 1.5LM-1 + Maintenance (120-Wind)	Yes	Y	1	1.2	35	1.2	84	1.5	7	0.087	41	0.087		
71	1.2D + 1.5LM-1 + Maintenance (135-Wind)	Yes	Y	1	1.2	35	1.2	84	1.5	8	0.087	42	0.087		
72	1.2D + 1.5LM-1 + Maintenance (150-Wind)	Yes	Y	1	1.2	35	1.2	84	1.5	9	0.087	43	0.087		
73	1.2D + 1.5LM-1 + Maintenance (180-Wind)	Yes	Y	1	1.2	35	1.2	84	1.5	10	0.087	44	0.087		
74	1.2D + 1.5LM-1 + Maintenance (210-Wind)	Yes	Y	1	1.2	35	1.2	84	1.5	11	0.087	45	0.087		
75	1.2D + 1.5LM-1 + Maintenance (225-Wind)	Yes	Y	1	1.2	35	1.2	84	1.5	12	0.087	46	0.087		
76	1.2D + 1.5LM-1 + Maintenance (240-Wind)	Yes	Y	1	1.2	35	1.2	84	1.5	13	0.087	47	0.087		
77	1.2D + 1.5LM-1 + Maintenance (270-Wind)	Yes	Y	1	1.2	35	1.2	84	1.5	14	0.087	48	0.087		
78	1.2D + 1.5LM-1 + Maintenance (300-Wind)	Yes	Y	1	1.2	35	1.2	84	1.5	15	0.087	49	0.087		
79	1.2D + 1.5LM-1 + Maintenance (315-Wind)	Yes	Y	1	1.2	35	1.2	84	1.5	16	0.087	50	0.087		
80	1.2D + 1.5LM-1 + Maintenance (330-Wind)	Yes	Y	1	1.2	35	1.2	84	1.5	17	0.087	51	0.087		
81	1.2D + 1.5LM-2 + Maintenance (0-Wind)	Yes	Y	1	1.2	35	1.2	85	1.5	2	0.087	36	0.087		
82	1.2D + 1.5LM-2 + Maintenance (30-Wind)	Yes	Y	1	1.2	35	1.2	85	1.5	3	0.087	37	0.087		
83	1.2D + 1.5LM-2 + Maintenance (45-Wind)	Yes	Y	1	1.2	35	1.2	85	1.5	4	0.087	38	0.087		
84	1.2D + 1.5LM-2 + Maintenance (60-Wind)	Yes	Y	1	1.2	35	1.2	85	1.5	5	0.087	39	0.087		
85	1.2D + 1.5LM-2 + Maintenance (90-Wind)	Yes	Y	1	1.2	35	1.2	85	1.5	6	0.087	40	0.087		
86	1.2D + 1.5LM-2 + Maintenance (120-Wind)	Yes	Y	1	1.2	35	1.2	85	1.5	7	0.087	41	0.087		
87	1.2D + 1.5LM-2 + Maintenance (135-Wind)	Yes	Y	1	1.2	35	1.2	85	1.5	8	0.087	42	0.087		
88	1.2D + 1.5LM-2 + Maintenance (150-Wind)	Yes	Y	1	1.2	35	1.2	85	1.5	9	0.087	43	0.087		
89	1.2D + 1.5LM-2 + Maintenance (180-Wind)	Yes	Y	1	1.2	35	1.2	85	1.5	10	0.087	44	0.087		
90	1.2D + 1.5LM-2 + Maintenance (210-Wind)	Yes	Y	1	1.2	35	1.2	85	1.5	11	0.087	45	0.087		
91	1.2D + 1.5LM-2 + Maintenance (225-Wind)	Yes	Y	1	1.2	35	1.2	85	1.5	12	0.087	46	0.087		
92	1.2D + 1.5LM-2 + Maintenance (240-Wind)	Yes	Y	1	1.2	35	1.2	85	1.5	13	0.087	47	0.087		
93	1.2D + 1.5LM-2 + Maintenance (270-Wind)	Yes	Y	1	1.2	35	1.2	85	1.5	14	0.087	48	0.087		
94	1.2D + 1.5LM-2 + Maintenance (300-Wind)	Yes	Y	1	1.2	35	1.2	85	1.5	15	0.087	49	0.087		
95	1.2D + 1.5LM-2 + Maintenance (315-Wind)	Yes	Y	1	1.2	35	1.2	85	1.5	16	0.087	50	0.087		
96	1.2D + 1.5LM-2 + Maintenance (330-Wind)	Yes	Y	1	1.2	35	1.2	85	1.5	17	0.087	51	0.087		

Load Combinations (Continued)

	Description	Solve	P-Delta	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor
97	1.2D + 1.5LM-3 + Maintenance (0-Wind)	Yes	Y	1	1.2	35	1.2	86	1.5	2	0.087	36	0.087		
98	1.2D + 1.5LM-3 + Maintenance (30-Wind)	Yes	Y	1	1.2	35	1.2	86	1.5	3	0.087	37	0.087		
99	1.2D + 1.5LM-3 + Maintenance (45-Wind)	Yes	Y	1	1.2	35	1.2	86	1.5	4	0.087	38	0.087		
100	1.2D + 1.5LM-3 + Maintenance (60-Wind)	Yes	Y	1	1.2	35	1.2	86	1.5	5	0.087	39	0.087		
101	1.2D + 1.5LM-3 + Maintenance (90-Wind)	Yes	Y	1	1.2	35	1.2	86	1.5	6	0.087	40	0.087		
102	1.2D + 1.5LM-3 + Maintenance (120-Wind)	Yes	Y	1	1.2	35	1.2	86	1.5	7	0.087	41	0.087		
103	1.2D + 1.5LM-3 + Maintenance (135-Wind)	Yes	Y	1	1.2	35	1.2	86	1.5	8	0.087	42	0.087		
104	1.2D + 1.5LM-3 + Maintenance (150-Wind)	Yes	Y	1	1.2	35	1.2	86	1.5	9	0.087	43	0.087		
105	1.2D + 1.5LM-3 + Maintenance (180-Wind)	Yes	Y	1	1.2	35	1.2	86	1.5	10	0.087	44	0.087		
106	1.2D + 1.5LM-3 + Maintenance (210-Wind)	Yes	Y	1	1.2	35	1.2	86	1.5	11	0.087	45	0.087		
107	1.2D + 1.5LM-3 + Maintenance (225-Wind)	Yes	Y	1	1.2	35	1.2	86	1.5	12	0.087	46	0.087		
108	1.2D + 1.5LM-3 + Maintenance (240-Wind)	Yes	Y	1	1.2	35	1.2	86	1.5	13	0.087	47	0.087		
109	1.2D + 1.5LM-3 + Maintenance (270-Wind)	Yes	Y	1	1.2	35	1.2	86	1.5	14	0.087	48	0.087		
110	1.2D + 1.5LM-3 + Maintenance (300-Wind)	Yes	Y	1	1.2	35	1.2	86	1.5	15	0.087	49	0.087		
111	1.2D + 1.5LM-3 + Maintenance (315-Wind)	Yes	Y	1	1.2	35	1.2	86	1.5	16	0.087	50	0.087		
112	1.2D + 1.5LM-3 + Maintenance (330-Wind)	Yes	Y	1	1.2	35	1.2	86	1.5	17	0.087	51	0.087		
113	1.2D + 1.5LM-4 + Maintenance (0-Wind)	Yes	Y	1	1.2	35	1.2	87	1.5	2	0.087	36	0.087		
114	1.2D + 1.5LM-4 + Maintenance (30-Wind)	Yes	Y	1	1.2	35	1.2	87	1.5	3	0.087	37	0.087		
115	1.2D + 1.5LM-4 + Maintenance (45-Wind)	Yes	Y	1	1.2	35	1.2	87	1.5	4	0.087	38	0.087		
116	1.2D + 1.5LM-4 + Maintenance (60-Wind)	Yes	Y	1	1.2	35	1.2	87	1.5	5	0.087	39	0.087		
117	1.2D + 1.5LM-4 + Maintenance (90-Wind)	Yes	Y	1	1.2	35	1.2	87	1.5	6	0.087	40	0.087		
118	1.2D + 1.5LM-4 + Maintenance (120-Wind)	Yes	Y	1	1.2	35	1.2	87	1.5	7	0.087	41	0.087		
119	1.2D + 1.5LM-4 + Maintenance (135-Wind)	Yes	Y	1	1.2	35	1.2	87	1.5	8	0.087	42	0.087		
120	1.2D + 1.5LM-4 + Maintenance (150-Wind)	Yes	Y	1	1.2	35	1.2	87	1.5	9	0.087	43	0.087		
121	1.2D + 1.5LM-4 + Maintenance (180-Wind)	Yes	Y	1	1.2	35	1.2	87	1.5	10	0.087	44	0.087		
122	1.2D + 1.5LM-4 + Maintenance (210-Wind)	Yes	Y	1	1.2	35	1.2	87	1.5	11	0.087	45	0.087		
123	1.2D + 1.5LM-4 + Maintenance (225-Wind)	Yes	Y	1	1.2	35	1.2	87	1.5	12	0.087	46	0.087		
124	1.2D + 1.5LM-4 + Maintenance (240-Wind)	Yes	Y	1	1.2	35	1.2	87	1.5	13	0.087	47	0.087		
125	1.2D + 1.5LM-4 + Maintenance (270-Wind)	Yes	Y	1	1.2	35	1.2	87	1.5	14	0.087	48	0.087		
126	1.2D + 1.5LM-4 + Maintenance (300-Wind)	Yes	Y	1	1.2	35	1.2	87	1.5	15	0.087	49	0.087		
127	1.2D + 1.5LM-4 + Maintenance (315-Wind)	Yes	Y	1	1.2	35	1.2	87	1.5	16	0.087	50	0.087		
128	1.2D + 1.5LM-4 + Maintenance (330-Wind)	Yes	Y	1	1.2	35	1.2	87	1.5	17	0.087	51	0.087		
129	1.2D + 1.5LM-5 + Maintenance (0-Wind)	Yes	Y	1	1.2	35	1.2	88	1.5	2	0.087	36	0.087		
130	1.2D + 1.5LM-5 + Maintenance (30-Wind)	Yes	Y	1	1.2	35	1.2	88	1.5	3	0.087	37	0.087		
131	1.2D + 1.5LM-5 + Maintenance (45-Wind)	Yes	Y	1	1.2	35	1.2	88	1.5	4	0.087	38	0.087		
132	1.2D + 1.5LM-5 + Maintenance (60-Wind)	Yes	Y	1	1.2	35	1.2	88	1.5	5	0.087	39	0.087		
133	1.2D + 1.5LM-5 + Maintenance (90-Wind)	Yes	Y	1	1.2	35	1.2	88	1.5	6	0.087	40	0.087		
134	1.2D + 1.5LM-5 + Maintenance (120-Wind)	Yes	Y	1	1.2	35	1.2	88	1.5	7	0.087	41	0.087		
135	1.2D + 1.5LM-5 + Maintenance (135-Wind)	Yes	Y	1	1.2	35	1.2	88	1.5	8	0.087	42	0.087		
136	1.2D + 1.5LM-5 + Maintenance (150-Wind)	Yes	Y	1	1.2	35	1.2	88	1.5	9	0.087	43	0.087		
137	1.2D + 1.5LM-5 + Maintenance (180-Wind)	Yes	Y	1	1.2	35	1.2	88	1.5	10	0.087	44	0.087		
138	1.2D + 1.5LM-5 + Maintenance (210-Wind)	Yes	Y	1	1.2	35	1.2	88	1.5	11	0.087	45	0.087		
139	1.2D + 1.5LM-5 + Maintenance (225-Wind)	Yes	Y	1	1.2	35	1.2	88	1.5	12	0.087	46	0.087		
140	1.2D + 1.5LM-5 + Maintenance (240-Wind)	Yes	Y	1	1.2	35	1.2	88	1.5	13	0.087	47	0.087		
141	1.2D + 1.5LM-5 + Maintenance (270-Wind)	Yes	Y	1	1.2	35	1.2	88	1.5	14	0.087	48	0.087		
142	1.2D + 1.5LM-5 + Maintenance (300-Wind)	Yes	Y	1	1.2	35	1.2	88	1.5	15	0.087	49	0.087		
143	1.2D + 1.5LM-5 + Maintenance (315-Wind)	Yes	Y	1	1.2	35	1.2	88	1.5	16	0.087	50	0.087		
144	1.2D + 1.5LM-5 + Maintenance (330-Wind)	Yes	Y	1	1.2	35	1.2	88	1.5	17	0.087	51	0.087		
145	1.2D + 1.5LM-6 + Maintenance (0-Wind)	Yes	Y	1	1.2	35	1.2	89	1.5	2	0.087	36	0.087		
146	1.2D + 1.5LM-6 + Maintenance (30-Wind)	Yes	Y	1	1.2	35	1.2	89	1.5	3	0.087	37	0.087		
147	1.2D + 1.5LM-6 + Maintenance (45-Wind)	Yes	Y	1	1.2	35	1.2	89	1.5	4	0.087	38	0.087		
148	1.2D + 1.5LM-6 + Maintenance (60-Wind)	Yes	Y	1	1.2	35	1.2	89	1.5	5	0.087	39	0.087		
149	1.2D + 1.5LM-6 + Maintenance (90-Wind)	Yes	Y	1	1.2	35	1.2	89	1.5	6	0.087	40	0.087		
150	1.2D + 1.5LM-6 + Maintenance (120-Wind)	Yes	Y	1	1.2	35	1.2	89	1.5	7	0.087	41	0.087		
151	1.2D + 1.5LM-6 + Maintenance (135-Wind)	Yes	Y	1	1.2	35	1.2	89	1.5	8	0.087	42	0.087		

Load Combinations (Continued)

	Description	Solve	P-Delta	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor
152	1.2D + 1.5LM-6 + Maintenance (150-Wind)	Yes	Y	1	1.2	35	1.2	89	1.5	9	0.087	43	0.087		
153	1.2D + 1.5LM-6 + Maintenance (180-Wind)	Yes	Y	1	1.2	35	1.2	89	1.5	10	0.087	44	0.087		
154	1.2D + 1.5LM-6 + Maintenance (210-Wind)	Yes	Y	1	1.2	35	1.2	89	1.5	11	0.087	45	0.087		
155	1.2D + 1.5LM-6 + Maintenance (225-Wind)	Yes	Y	1	1.2	35	1.2	89	1.5	12	0.087	46	0.087		
156	1.2D + 1.5LM-6 + Maintenance (240-Wind)	Yes	Y	1	1.2	35	1.2	89	1.5	13	0.087	47	0.087		
157	1.2D + 1.5LM-6 + Maintenance (270-Wind)	Yes	Y	1	1.2	35	1.2	89	1.5	14	0.087	48	0.087		
158	1.2D + 1.5LM-6 + Maintenance (300-Wind)	Yes	Y	1	1.2	35	1.2	89	1.5	15	0.087	49	0.087		
159	1.2D + 1.5LM-6 + Maintenance (315-Wind)	Yes	Y	1	1.2	35	1.2	89	1.5	16	0.087	50	0.087		
160	1.2D + 1.5LM-6 + Maintenance (330-Wind)	Yes	Y	1	1.2	35	1.2	89	1.5	17	0.087	51	0.087		
161	1.2D + 1.5LM-7 + Maintenance (0-Wind)	Yes	Y	1	1.2	35	1.2	90	1.5	2	0.087	36	0.087		
162	1.2D + 1.5LM-7 + Maintenance (30-Wind)	Yes	Y	1	1.2	35	1.2	90	1.5	3	0.087	37	0.087		
163	1.2D + 1.5LM-7 + Maintenance (45-Wind)	Yes	Y	1	1.2	35	1.2	90	1.5	4	0.087	38	0.087		
164	1.2D + 1.5LM-7 + Maintenance (60-Wind)	Yes	Y	1	1.2	35	1.2	90	1.5	5	0.087	39	0.087		
165	1.2D + 1.5LM-7 + Maintenance (90-Wind)	Yes	Y	1	1.2	35	1.2	90	1.5	6	0.087	40	0.087		
166	1.2D + 1.5LM-7 + Maintenance (120-Wind)	Yes	Y	1	1.2	35	1.2	90	1.5	7	0.087	41	0.087		
167	1.2D + 1.5LM-7 + Maintenance (135-Wind)	Yes	Y	1	1.2	35	1.2	90	1.5	8	0.087	42	0.087		
168	1.2D + 1.5LM-7 + Maintenance (150-Wind)	Yes	Y	1	1.2	35	1.2	90	1.5	9	0.087	43	0.087		
169	1.2D + 1.5LM-7 + Maintenance (180-Wind)	Yes	Y	1	1.2	35	1.2	90	1.5	10	0.087	44	0.087		
170	1.2D + 1.5LM-7 + Maintenance (210-Wind)	Yes	Y	1	1.2	35	1.2	90	1.5	11	0.087	45	0.087		
171	1.2D + 1.5LM-7 + Maintenance (225-Wind)	Yes	Y	1	1.2	35	1.2	90	1.5	12	0.087	46	0.087		
172	1.2D + 1.5LM-7 + Maintenance (240-Wind)	Yes	Y	1	1.2	35	1.2	90	1.5	13	0.087	47	0.087		
173	1.2D + 1.5LM-7 + Maintenance (270-Wind)	Yes	Y	1	1.2	35	1.2	90	1.5	14	0.087	48	0.087		
174	1.2D + 1.5LM-7 + Maintenance (300-Wind)	Yes	Y	1	1.2	35	1.2	90	1.5	15	0.087	49	0.087		
175	1.2D + 1.5LM-7 + Maintenance (315-Wind)	Yes	Y	1	1.2	35	1.2	90	1.5	16	0.087	50	0.087		
176	1.2D + 1.5LM-7 + Maintenance (330-Wind)	Yes	Y	1	1.2	35	1.2	90	1.5	17	0.087	51	0.087		
177	1.2D + 1.5LM-8 + Maintenance (0-Wind)	Yes	Y	1	1.2	35	1.2	91	1.5	2	0.087	36	0.087		
178	1.2D + 1.5LM-8 + Maintenance (30-Wind)	Yes	Y	1	1.2	35	1.2	91	1.5	3	0.087	37	0.087		
179	1.2D + 1.5LM-8 + Maintenance (45-Wind)	Yes	Y	1	1.2	35	1.2	91	1.5	4	0.087	38	0.087		
180	1.2D + 1.5LM-8 + Maintenance (60-Wind)	Yes	Y	1	1.2	35	1.2	91	1.5	5	0.087	39	0.087		
181	1.2D + 1.5LM-8 + Maintenance (90-Wind)	Yes	Y	1	1.2	35	1.2	91	1.5	6	0.087	40	0.087		
182	1.2D + 1.5LM-8 + Maintenance (120-Wind)	Yes	Y	1	1.2	35	1.2	91	1.5	7	0.087	41	0.087		
183	1.2D + 1.5LM-8 + Maintenance (135-Wind)	Yes	Y	1	1.2	35	1.2	91	1.5	8	0.087	42	0.087		
184	1.2D + 1.5LM-8 + Maintenance (150-Wind)	Yes	Y	1	1.2	35	1.2	91	1.5	9	0.087	43	0.087		
185	1.2D + 1.5LM-8 + Maintenance (180-Wind)	Yes	Y	1	1.2	35	1.2	91	1.5	10	0.087	44	0.087		
186	1.2D + 1.5LM-8 + Maintenance (210-Wind)	Yes	Y	1	1.2	35	1.2	91	1.5	11	0.087	45	0.087		
187	1.2D + 1.5LM-8 + Maintenance (225-Wind)	Yes	Y	1	1.2	35	1.2	91	1.5	12	0.087	46	0.087		
188	1.2D + 1.5LM-8 + Maintenance (240-Wind)	Yes	Y	1	1.2	35	1.2	91	1.5	13	0.087	47	0.087		
189	1.2D + 1.5LM-8 + Maintenance (270-Wind)	Yes	Y	1	1.2	35	1.2	91	1.5	14	0.087	48	0.087		
190	1.2D + 1.5LM-8 + Maintenance (300-Wind)	Yes	Y	1	1.2	35	1.2	91	1.5	15	0.087	49	0.087		
191	1.2D + 1.5LM-8 + Maintenance (315-Wind)	Yes	Y	1	1.2	35	1.2	91	1.5	16	0.087	50	0.087		
192	1.2D + 1.5LM-8 + Maintenance (330-Wind)	Yes	Y	1	1.2	35	1.2	91	1.5	17	0.087	51	0.087		
193	1.2D + 1.5LM-9 + Maintenance (0-Wind)	Yes	Y	1	1.2	35	1.2	92	1.5	2	0.087	36	0.087		
194	1.2D + 1.5LM-9 + Maintenance (30-Wind)	Yes	Y	1	1.2	35	1.2	92	1.5	3	0.087	37	0.087		
195	1.2D + 1.5LM-9 + Maintenance (45-Wind)	Yes	Y	1	1.2	35	1.2	92	1.5	4	0.087	38	0.087		
196	1.2D + 1.5LM-9 + Maintenance (60-Wind)	Yes	Y	1	1.2	35	1.2	92	1.5	5	0.087	39	0.087		
197	1.2D + 1.5LM-9 + Maintenance (90-Wind)	Yes	Y	1	1.2	35	1.2	92	1.5	6	0.087	40	0.087		
198	1.2D + 1.5LM-9 + Maintenance (120-Wind)	Yes	Y	1	1.2	35	1.2	92	1.5	7	0.087	41	0.087		
199	1.2D + 1.5LM-9 + Maintenance (135-Wind)	Yes	Y	1	1.2	35	1.2	92	1.5	8	0.087	42	0.087		
200	1.2D + 1.5LM-9 + Maintenance (150-Wind)	Yes	Y	1	1.2	35	1.2	92	1.5	9	0.087	43	0.087		
201	1.2D + 1.5LM-9 + Maintenance (180-Wind)	Yes	Y	1	1.2	35	1.2	92	1.5	10	0.087	44	0.087		
202	1.2D + 1.5LM-9 + Maintenance (210-Wind)	Yes	Y	1	1.2	35	1.2	92	1.5	11	0.087	45	0.087		
203	1.2D + 1.5LM-9 + Maintenance (225-Wind)	Yes	Y	1	1.2	35	1.2	92	1.5	12	0.087	46	0.087		
204	1.2D + 1.5LM-9 + Maintenance (240-Wind)	Yes	Y	1	1.2	35	1.2	92	1.5	13	0.087	47	0.087		
205	1.2D + 1.5LM-9 + Maintenance (270-Wind)	Yes	Y	1	1.2	35	1.2	92	1.5	14	0.087	48	0.087		
206	1.2D + 1.5LM-9 + Maintenance (300-Wind)	Yes	Y	1	1.2	35	1.2	92	1.5	15	0.087	49	0.087		

Load Combinations (Continued)

	Description	Solve	P-Delta	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor
207	1.2D + 1.5LM-9 + Maintenance (315-Wind)	Yes	Y	1	1.2	35	1.2	92	1.5	16	0.087	50	0.087		
208	1.2D + 1.5LM-9 + Maintenance (330-Wind)	Yes	Y	1	1.2	35	1.2	92	1.5	17	0.087	51	0.087		
209	1.2D + 1.5LM-10 + Maintenance (0-Wind)	Yes	Y	1	1.2	35	1.2	93	1.5	2	0.087	36	0.087		
210	1.2D + 1.5LM-10 + Maintenance (30-Wind)	Yes	Y	1	1.2	35	1.2	93	1.5	3	0.087	37	0.087		
211	1.2D + 1.5LM-10 + Maintenance (45-Wind)	Yes	Y	1	1.2	35	1.2	93	1.5	4	0.087	38	0.087		
212	1.2D + 1.5LM-10 + Maintenance (60-Wind)	Yes	Y	1	1.2	35	1.2	93	1.5	5	0.087	39	0.087		
213	1.2D + 1.5LM-10 + Maintenance (90-Wind)	Yes	Y	1	1.2	35	1.2	93	1.5	6	0.087	40	0.087		
214	1.2D + 1.5LM-10 + Maintenance (120-Wind)	Yes	Y	1	1.2	35	1.2	93	1.5	7	0.087	41	0.087		
215	1.2D + 1.5LM-10 + Maintenance (135-Wind)	Yes	Y	1	1.2	35	1.2	93	1.5	8	0.087	42	0.087		
216	1.2D + 1.5LM-10 + Maintenance (150-Wind)	Yes	Y	1	1.2	35	1.2	93	1.5	9	0.087	43	0.087		
217	1.2D + 1.5LM-10 + Maintenance (180-Wind)	Yes	Y	1	1.2	35	1.2	93	1.5	10	0.087	44	0.087		
218	1.2D + 1.5LM-10 + Maintenance (210-Wind)	Yes	Y	1	1.2	35	1.2	93	1.5	11	0.087	45	0.087		
219	1.2D + 1.5LM-10 + Maintenance (225-Wind)	Yes	Y	1	1.2	35	1.2	93	1.5	12	0.087	46	0.087		
220	1.2D + 1.5LM-10 + Maintenance (240-Wind)	Yes	Y	1	1.2	35	1.2	93	1.5	13	0.087	47	0.087		
221	1.2D + 1.5LM-10 + Maintenance (270-Wind)	Yes	Y	1	1.2	35	1.2	93	1.5	14	0.087	48	0.087		
222	1.2D + 1.5LM-10 + Maintenance (300-Wind)	Yes	Y	1	1.2	35	1.2	93	1.5	15	0.087	49	0.087		
223	1.2D + 1.5LM-10 + Maintenance (315-Wind)	Yes	Y	1	1.2	35	1.2	93	1.5	16	0.087	50	0.087		
224	1.2D + 1.5LM-10 + Maintenance (330-Wind)	Yes	Y	1	1.2	35	1.2	93	1.5	17	0.087	51	0.087		
225	1.2D + 1.5LM-11 + Maintenance (0-Wind)	Yes	Y	1	1.2	35	1.2	94	1.5	2	0.087	36	0.087		
226	1.2D + 1.5LM-11 + Maintenance (30-Wind)	Yes	Y	1	1.2	35	1.2	94	1.5	3	0.087	37	0.087		
227	1.2D + 1.5LM-11 + Maintenance (45-Wind)	Yes	Y	1	1.2	35	1.2	94	1.5	4	0.087	38	0.087		
228	1.2D + 1.5LM-11 + Maintenance (60-Wind)	Yes	Y	1	1.2	35	1.2	94	1.5	5	0.087	39	0.087		
229	1.2D + 1.5LM-11 + Maintenance (90-Wind)	Yes	Y	1	1.2	35	1.2	94	1.5	6	0.087	40	0.087		
230	1.2D + 1.5LM-11 + Maintenance (120-Wind)	Yes	Y	1	1.2	35	1.2	94	1.5	7	0.087	41	0.087		
231	1.2D + 1.5LM-11 + Maintenance (135-Wind)	Yes	Y	1	1.2	35	1.2	94	1.5	8	0.087	42	0.087		
232	1.2D + 1.5LM-11 + Maintenance (150-Wind)	Yes	Y	1	1.2	35	1.2	94	1.5	9	0.087	43	0.087		
233	1.2D + 1.5LM-11 + Maintenance (180-Wind)	Yes	Y	1	1.2	35	1.2	94	1.5	10	0.087	44	0.087		
234	1.2D + 1.5LM-11 + Maintenance (210-Wind)	Yes	Y	1	1.2	35	1.2	94	1.5	11	0.087	45	0.087		
235	1.2D + 1.5LM-11 + Maintenance (225-Wind)	Yes	Y	1	1.2	35	1.2	94	1.5	12	0.087	46	0.087		
236	1.2D + 1.5LM-11 + Maintenance (240-Wind)	Yes	Y	1	1.2	35	1.2	94	1.5	13	0.087	47	0.087		
237	1.2D + 1.5LM-11 + Maintenance (270-Wind)	Yes	Y	1	1.2	35	1.2	94	1.5	14	0.087	48	0.087		
238	1.2D + 1.5LM-11 + Maintenance (300-Wind)	Yes	Y	1	1.2	35	1.2	94	1.5	15	0.087	49	0.087		
239	1.2D + 1.5LM-11 + Maintenance (315-Wind)	Yes	Y	1	1.2	35	1.2	94	1.5	16	0.087	50	0.087		
240	1.2D + 1.5LM-11 + Maintenance (330-Wind)	Yes	Y	1	1.2	35	1.2	94	1.5	17	0.087	51	0.087		
241	1.2D + 1.5LM-12 + Maintenance (0-Wind)	Yes	Y	1	1.2	35	1.2	95	1.5	2	0.087	36	0.087		
242	1.2D + 1.5LM-12 + Maintenance (30-Wind)	Yes	Y	1	1.2	35	1.2	95	1.5	3	0.087	37	0.087		
243	1.2D + 1.5LM-12 + Maintenance (45-Wind)	Yes	Y	1	1.2	35	1.2	95	1.5	4	0.087	38	0.087		
244	1.2D + 1.5LM-12 + Maintenance (60-Wind)	Yes	Y	1	1.2	35	1.2	95	1.5	5	0.087	39	0.087		
245	1.2D + 1.5LM-12 + Maintenance (90-Wind)	Yes	Y	1	1.2	35	1.2	95	1.5	6	0.087	40	0.087		
246	1.2D + 1.5LM-12 + Maintenance (120-Wind)	Yes	Y	1	1.2	35	1.2	95	1.5	7	0.087	41	0.087		
247	1.2D + 1.5LM-12 + Maintenance (135-Wind)	Yes	Y	1	1.2	35	1.2	95	1.5	8	0.087	42	0.087		
248	1.2D + 1.5LM-12 + Maintenance (150-Wind)	Yes	Y	1	1.2	35	1.2	95	1.5	9	0.087	43	0.087		
249	1.2D + 1.5LM-12 + Maintenance (180-Wind)	Yes	Y	1	1.2	35	1.2	95	1.5	10	0.087	44	0.087		
250	1.2D + 1.5LM-12 + Maintenance (210-Wind)	Yes	Y	1	1.2	35	1.2	95	1.5	11	0.087	45	0.087		
251	1.2D + 1.5LM-12 + Maintenance (225-Wind)	Yes	Y	1	1.2	35	1.2	95	1.5	12	0.087	46	0.087		
252	1.2D + 1.5LM-12 + Maintenance (240-Wind)	Yes	Y	1	1.2	35	1.2	95	1.5	13	0.087	47	0.087		
253	1.2D + 1.5LM-12 + Maintenance (270-Wind)	Yes	Y	1	1.2	35	1.2	95	1.5	14	0.087	48	0.087		
254	1.2D + 1.5LM-12 + Maintenance (300-Wind)	Yes	Y	1	1.2	35	1.2	95	1.5	15	0.087	49	0.087		
255	1.2D + 1.5LM-12 + Maintenance (315-Wind)	Yes	Y	1	1.2	35	1.2	95	1.5	16	0.087	50	0.087		
256	1.2D + 1.5LM-12 + Maintenance (330-Wind)	Yes	Y	1	1.2	35	1.2	95	1.5	17	0.087	51	0.087		
257	1.2D + 1.5LM-13 + Maintenance (0-Wind)	Yes	Y	1	1.2	35	1.2	96	1.5	2	0.087	36	0.087		
258	1.2D + 1.5LM-13 + Maintenance (30-Wind)	Yes	Y	1	1.2	35	1.2	96	1.5	3	0.087	37	0.087		
259	1.2D + 1.5LM-13 + Maintenance (45-Wind)	Yes	Y	1	1.2	35	1.2	96	1.5	4	0.087	38	0.087		
260	1.2D + 1.5LM-13 + Maintenance (60-Wind)	Yes	Y	1	1.2	35	1.2	96	1.5	5	0.087	39	0.087		
261	1.2D + 1.5LM-13 + Maintenance (90-Wind)	Yes	Y	1	1.2	35	1.2	96	1.5	6	0.087	40	0.087		

Load Combinations (Continued)

	Description	Solve	P-Delta	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor
262	1.2D + 1.5LM-13 + Maintenance (120-Wind)	Yes	Y	1	1.2	35	1.2	96	1.5	7	0.087	41	0.087		
263	1.2D + 1.5LM-13 + Maintenance (135-Wind)	Yes	Y	1	1.2	35	1.2	96	1.5	8	0.087	42	0.087		
264	1.2D + 1.5LM-13 + Maintenance (150-Wind)	Yes	Y	1	1.2	35	1.2	96	1.5	9	0.087	43	0.087		
265	1.2D + 1.5LM-13 + Maintenance (180-Wind)	Yes	Y	1	1.2	35	1.2	96	1.5	10	0.087	44	0.087		
266	1.2D + 1.5LM-13 + Maintenance (210-Wind)	Yes	Y	1	1.2	35	1.2	96	1.5	11	0.087	45	0.087		
267	1.2D + 1.5LM-13 + Maintenance (225-Wind)	Yes	Y	1	1.2	35	1.2	96	1.5	12	0.087	46	0.087		
268	1.2D + 1.5LM-13 + Maintenance (240-Wind)	Yes	Y	1	1.2	35	1.2	96	1.5	13	0.087	47	0.087		
269	1.2D + 1.5LM-13 + Maintenance (270-Wind)	Yes	Y	1	1.2	35	1.2	96	1.5	14	0.087	48	0.087		
270	1.2D + 1.5LM-13 + Maintenance (300-Wind)	Yes	Y	1	1.2	35	1.2	96	1.5	15	0.087	49	0.087		
271	1.2D + 1.5LM-13 + Maintenance (315-Wind)	Yes	Y	1	1.2	35	1.2	96	1.5	16	0.087	50	0.087		
272	1.2D + 1.5LM-13 + Maintenance (330-Wind)	Yes	Y	1	1.2	35	1.2	96	1.5	17	0.087	51	0.087		
273	1.2D + 1.5LM-14 + Maintenance (0-Wind)	Yes	Y	1	1.2	35	1.2	97	1.5	2	0.087	36	0.087		
274	1.2D + 1.5LM-14 + Maintenance (30-Wind)	Yes	Y	1	1.2	35	1.2	97	1.5	3	0.087	37	0.087		
275	1.2D + 1.5LM-14 + Maintenance (45-Wind)	Yes	Y	1	1.2	35	1.2	97	1.5	4	0.087	38	0.087		
276	1.2D + 1.5LM-14 + Maintenance (60-Wind)	Yes	Y	1	1.2	35	1.2	97	1.5	5	0.087	39	0.087		
277	1.2D + 1.5LM-14 + Maintenance (90-Wind)	Yes	Y	1	1.2	35	1.2	97	1.5	6	0.087	40	0.087		
278	1.2D + 1.5LM-14 + Maintenance (120-Wind)	Yes	Y	1	1.2	35	1.2	97	1.5	7	0.087	41	0.087		
279	1.2D + 1.5LM-14 + Maintenance (135-Wind)	Yes	Y	1	1.2	35	1.2	97	1.5	8	0.087	42	0.087		
280	1.2D + 1.5LM-14 + Maintenance (150-Wind)	Yes	Y	1	1.2	35	1.2	97	1.5	9	0.087	43	0.087		
281	1.2D + 1.5LM-14 + Maintenance (180-Wind)	Yes	Y	1	1.2	35	1.2	97	1.5	10	0.087	44	0.087		
282	1.2D + 1.5LM-14 + Maintenance (210-Wind)	Yes	Y	1	1.2	35	1.2	97	1.5	11	0.087	45	0.087		
283	1.2D + 1.5LM-14 + Maintenance (225-Wind)	Yes	Y	1	1.2	35	1.2	97	1.5	12	0.087	46	0.087		
284	1.2D + 1.5LM-14 + Maintenance (240-Wind)	Yes	Y	1	1.2	35	1.2	97	1.5	13	0.087	47	0.087		
285	1.2D + 1.5LM-14 + Maintenance (270-Wind)	Yes	Y	1	1.2	35	1.2	97	1.5	14	0.087	48	0.087		
286	1.2D + 1.5LM-14 + Maintenance (300-Wind)	Yes	Y	1	1.2	35	1.2	97	1.5	15	0.087	49	0.087		
287	1.2D + 1.5LM-14 + Maintenance (315-Wind)	Yes	Y	1	1.2	35	1.2	97	1.5	16	0.087	50	0.087		
288	1.2D + 1.5LM-14 + Maintenance (330-Wind)	Yes	Y	1	1.2	35	1.2	97	1.5	17	0.087	51	0.087		
289	1.2D + 1.5LM-15 + Maintenance (0-Wind)	Yes	Y	1	1.2	35	1.2	98	1.5	2	0.087	36	0.087		
290	1.2D + 1.5LM-15 + Maintenance (30-Wind)	Yes	Y	1	1.2	35	1.2	98	1.5	3	0.087	37	0.087		
291	1.2D + 1.5LM-15 + Maintenance (45-Wind)	Yes	Y	1	1.2	35	1.2	98	1.5	4	0.087	38	0.087		
292	1.2D + 1.5LM-15 + Maintenance (60-Wind)	Yes	Y	1	1.2	35	1.2	98	1.5	5	0.087	39	0.087		
293	1.2D + 1.5LM-15 + Maintenance (90-Wind)	Yes	Y	1	1.2	35	1.2	98	1.5	6	0.087	40	0.087		
294	1.2D + 1.5LM-15 + Maintenance (120-Wind)	Yes	Y	1	1.2	35	1.2	98	1.5	7	0.087	41	0.087		
295	1.2D + 1.5LM-15 + Maintenance (135-Wind)	Yes	Y	1	1.2	35	1.2	98	1.5	8	0.087	42	0.087		
296	1.2D + 1.5LM-15 + Maintenance (150-Wind)	Yes	Y	1	1.2	35	1.2	98	1.5	9	0.087	43	0.087		
297	1.2D + 1.5LM-15 + Maintenance (180-Wind)	Yes	Y	1	1.2	35	1.2	98	1.5	10	0.087	44	0.087		
298	1.2D + 1.5LM-15 + Maintenance (210-Wind)	Yes	Y	1	1.2	35	1.2	98	1.5	11	0.087	45	0.087		
299	1.2D + 1.5LM-15 + Maintenance (225-Wind)	Yes	Y	1	1.2	35	1.2	98	1.5	12	0.087	46	0.087		
300	1.2D + 1.5LM-15 + Maintenance (240-Wind)	Yes	Y	1	1.2	35	1.2	98	1.5	13	0.087	47	0.087		
301	1.2D + 1.5LM-15 + Maintenance (270-Wind)	Yes	Y	1	1.2	35	1.2	98	1.5	14	0.087	48	0.087		
302	1.2D + 1.5LM-15 + Maintenance (300-Wind)	Yes	Y	1	1.2	35	1.2	98	1.5	15	0.087	49	0.087		
303	1.2D + 1.5LM-15 + Maintenance (315-Wind)	Yes	Y	1	1.2	35	1.2	98	1.5	16	0.087	50	0.087		
304	1.2D + 1.5LM-15 + Maintenance (330-Wind)	Yes	Y	1	1.2	35	1.2	98	1.5	17	0.087	51	0.087		

Envelope Node Reactions

	Node Label		X [lb]	LC	Y [lb]	LC	Z [lb]	LC	MX [lb-ft]	LC	MY [lb-ft]	LC	MZ [lb-ft]	LC
1	N3	max	40.334	30	158.037	1	64.338	18	0	304	0	304	0	304
2		min	-40.334	6	101.595	2	-64.338	10	0	1	0	1	0	1
3	N1	max	40.334	30	158.037	1	64.338	18	0	304	0	304	0	304
4		min	-40.334	6	101.595	2	-64.338	10	0	1	0	1	0	1
5	Totals:	max	80.669	30	316.073	1	128.675	18						
6		min	-80.669	6	203.19	2	-128.675	10						

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

	Member	Shape	Code Check	Loc[ft]	LC	Shear Check	Loc[ft]	LC	phi*Pnc [lb]	phi*Pnt [lb]	phi*Mn y-y [lb-ft]	phi*Mn z-z [lb-ft]	Cb	Eqn
1	MP1	PIPE_2.0	0.077	4.5	26	0.007	8	26	14916.096	32130	1871.625	1871.625	1	H1-1b

RAMAKER employee-owned

Job	Humana (COL01176)
Project	54003
By	JMA
Date	2/9/22

Wind Load on Antennas TIA-222-H

$q_z = 0.00256\ K_z\ K_{zt}\ K_s\ K_e\ K_d\ V^2$ Ground Elevation : 5,607 ft Annex S: N

$F = q_z\ G_h\ C_a\ A_a$ K_{es} (F_w): 1.00

Risk Category :	II		Risk Categorization of Structures (Table 2-1)	K_{es} (t_i):	1.00
Exposure :	C		Exposure Category		
V :	107	mph	Basic Wind Speed (Annex B)		
z :	74	ft	Height above ground level to the center of the antenna		
K_z :	1.19		Velocity Pressure Coefficient (2.6.5.2)		
K_{zt} :	1.00		Topographic Factor (2.6.6.4)		
K_s :	1.00		Rooftop Wind Speed-up Factor (2.6.7)		
K_e :	0.82		Ground Elevation Factor (Table 2-6)		
K_d :	0.95		Wind Direction Probability Factor (Table 2-2)		
q_z :	27.0	psf	Velocity Pressure at Height z		
G_h :	1.00		Strength Design of Appurtenances and their Connections		

Mount & Antenna Wind Loads

Appurtenance	Height	Width	h/D	Shape	C_a	A_a	Force	Force
	in	*in*				*sq ft*	*lb*	*plf*
AEQK	29.5	17.7	1.7	Flat	1.200	3.63	117.7	
AEQU	29.5	17.7	1.7	Flat	1.200	3.63	117.7	
Pipe2STD x 8 ft	96.0	2.4	40.4	Round	1.200	1.58	51.3	6.4

RAMAKER employee-owned

Job	Humana (COL01176)
Project	54003
By	JMA
Date	2/9/22

Wind Load on Antennas TIA-222-H

$q_z = 0.00256\ K_z\ K_{zt}\ K_s\ K_e\ K_d\ V^2$ Ground Elevation : 5,607 ft Annex S: N

$F = q_z\ G_h\ C_a\ A_a$ K_{es} (F_w): 1.00

Risk Category :	II		Risk Categorization of Structures (Table 2-1)	K_{es} (t_i):	1.00
Exposure :	C		Exposure Category		
V :	107	mph	Basic Wind Speed (Annex B)		
z :	74	ft	Height above ground level to the center of the antenna		
K_z :	1.19		Velocity Pressure Coefficient (2.6.5.2)		
K_{zt} :	1.00		Topographic Factor (2.6.6.4)		
K_s :	1.00		Rooftop Wind Speed-up Factor (2.6.7)		
K_e :	0.82		Ground Elevation Factor (Table 2-6)		
K_d :	0.95		Wind Direction Probability Factor (Table 2-2)		
q_z :	27.0	psf	Velocity Pressure at Height z		
G_h :	1.00		Strength Design of Appurtenances and their Connections		

Mount & Antenna Wind Loads

Appurtenance	Height	Depth	h/D	Shape	C_a	A_a	Force	Force
	in	*in*				*sq ft*	*lb*	*plf*
AEQK	29.5	9.5	3.1	Flat	1.228	1.94	64.2	
AEQU	29.5	9.5	3.1	Flat	1.228	1.94	64.2	
Pipe2STD x 8 ft	96.0	2.4	40.4	Round	1.200	1.58	51.3	6.4

RAMAKER employee-owned

Job	Humana (COL01176)
Project	54003
By	JMA
Date	2/9/22

Ice Wind Load on Antennas TIA-222-H

Risk Category :	II		Risk Categorization of Structures (Table 2-1)	Annex S:	N
Exposure :	C		Exposure Category	K_{es} (F_w):	1.00
V_i :	50	mph	Basic Wind Speed (Annex B)	K_{es} (t_i):	1.00
z :	74	ft	Height above ground level to the center of the antenna		
K_z :	1.19		Velocity Pressure Coefficient (2.6.5.2)		
K_{zt} :	1.00		Topographic Factor (2.6.6.4)		
K_s :	1.00		Rooftop Wind Speed-up Factor (2.6.7)		
K_e :	0.82		Ground Elevation Factor (Table 2-6)		
K_d :	0.95		Wind Direction Probability Factor (Table 2-2)		
I :	1.00		Importance Factor (Table 2-3)		
q_z :	5.90	psf	Velocity Pressure at Height z		
G_h :	1.00		Strength Design of Appurtenances and their Connections		
t_{iz} :	0.27	in	Design Thickness of Radial Glaze Ice at Height z (2.6.10)		

Mount & Antenna Ice Wind Loads

Appurtenance	Height	Width	h/D	Shape	C_a	A_a	Force	Force
	in	*in*				*sq ft*	*lb*	*plf*
AEQK	30.1	18.3	1.6	Flat	1.200	3.81	27.0	
AEQU	30.1	18.3	1.6	Flat	1.200	3.81	27.0	
Pipe2STD x 8 ft	96.5	2.9	33.1	Round	1.200	1.96	13.8	1.7

RAMAKER employee-owned

Job	Humana (COL01176)
Project	54003
By	JMA
Date	2/9/22

Ice Wind Load on Antennas TIA-222-H

Risk Category :	II		Risk Categorization of Structures (Table 2-1)	Annex S:	N
Exposure :	C		Exposure Category	K_{es} (F_w):	1.00
V_i :	50	mph	Basic Wind Speed (Annex B)	K_{es} (t_i):	1.00
z :	74	ft	Height above ground level to the center of the antenna		
K_z :	1.19		Velocity Pressure Coefficient (2.6.5.2)		
K_{zt} :	1.00		Topographic Factor (2.6.6.4)		
K_s :	1.00		Rooftop Wind Speed-up Factor (2.6.7)		
K_e :	0.82		Ground Elevation Factor (Table 2-6)		
K_d :	0.95		Wind Direction Probability Factor (Table 2-2)		
I :	1.00		Importance Factor (Table 2-3)		
q_z :	5.90	psf	Velocity Pressure at Height z		
G_h :	1.00		Strength Design of Appurtenances and their Connections		
t_{iz} :	0.27	in	Design Thickness of Radial Glaze Ice at Height z (2.6.10)		

Mount & Antenna Ice Wind Loads

Appurtenance	Height	Depth	h/D	Shape	C_a	A_a	Force	Force
	in	*in*				*sq ft*	*lb*	*plf*
AEQK	30.1	10.0	3.0	Flat	1.223	2.09	15.0	
AEQU	30.1	10.0	3.0	Flat	1.223	2.09	15.0	
Pipe2STD x 8 ft	96.5	2.9	33.1	Round	1.200	1.96	13.8	1.7

RAMAKER employee-owned

Job	Humana (COL01176)
Project	54003
By	JMA
Date	2/9/22

Ice Load on Antennas TIA-222-H

Ice Weight :	56	pcf	Ice Density	Annex S:	N
t_i :	0.25		Design Ice Thickness	K_{es} (F_w):	1.00
Occupancy :	II		Classification of Structures (Table 2-1)	K_{es} (t_i):	1.00
Exposure :	C		Exposure Category		
V_i :	50	mph	Basic Wind Speed (Annex B)		
z :	74	ft	Height above ground level to the center of the antenna		
I :	1.00		Importance Factor (Table 2-3)		
K_{iz} :	1.08		Height Escalation Factor for Ice Thickness		
K_{zt} :	1.00		Topographic Factor (2.6.6.4)		
t_{iz} :	0.27	in	Design Thickness of Radial Ice at Height z (2.6.8)		

Platform Grating :	None	
Ice Load :		psf

Mount & Antenna Ice Wind Loads

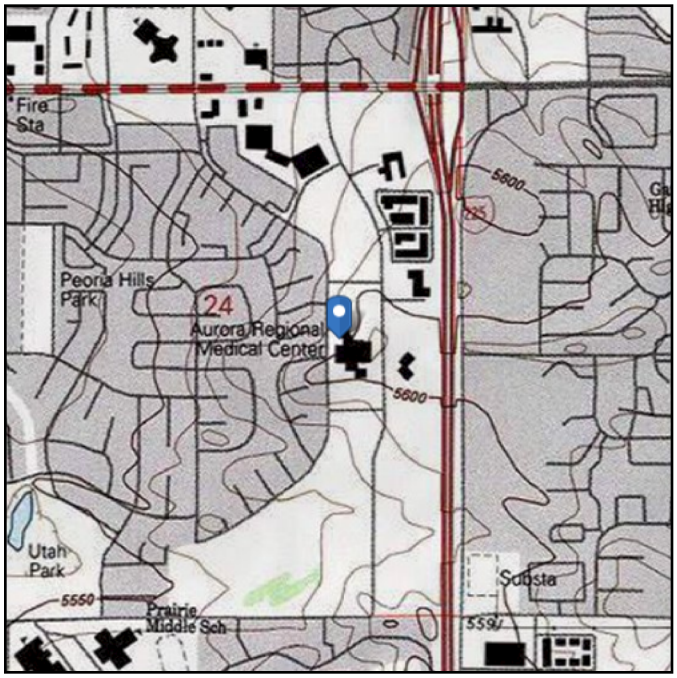
Appurtenance	Height	Width	Depth	Diam.	Area	Perim.	Ice Weight	
	in	*in*	*in*	*in*	*sq in*	*in*	*lb*	*plf*
AEQK	30.1	18.3	10.0	20.08	17.33	55.42	16.6	
AEQU	30.1	18.3	10.0	20.08	17.33	55.42	16.6	
Pipe2STD x 8 ft	96.5	2.9	2.9	2.38	2.25	8.31	7.0	0.9

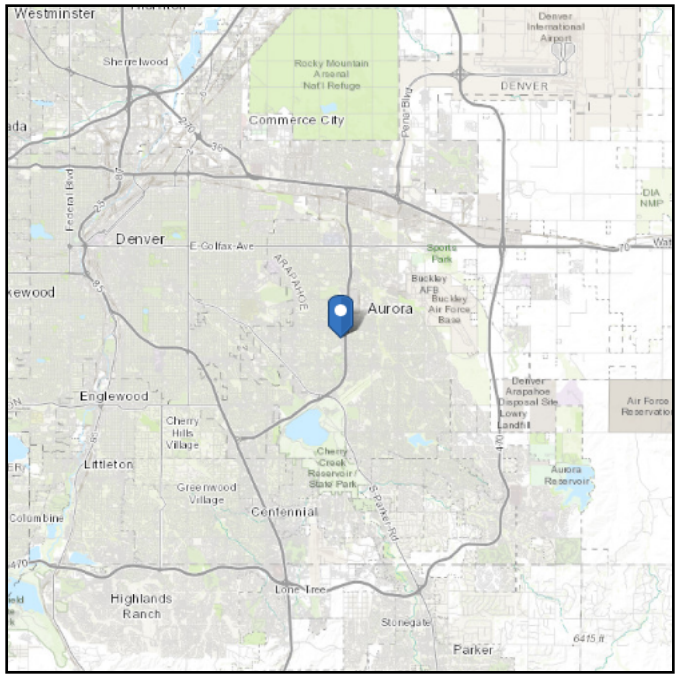
ASCE 7 Hazards Report

Address:
No Address at This Location

Standard: ASCE/SEI 7-16
Risk Category: II
Soil Class: D - Default (see Section 11.4.3)

Elevation: 5606.88 ft (NAVD 88)
Latitude: 39.689628
Longitude: -104.832634





Wind

Results:

Wind Speed	107 Vmph
10-year MRI	77 Vmph
25-year MRI	84 Vmph
50-year MRI	89 Vmph
100-year MRI	93 Vmph

Data Source: ASCE/SEI 7-16, Fig. 26.5-1B and Figs. CC.2-1–CC.2-4, and Section 26.5.2
Date Accessed: Wed Feb 09 2022

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 7-16 Standard. Wind speeds correspond to approximately a 7% probability of exceedance in 50 years (annual exceedance probability = 0.00143, MRI = 700 years).

Site is not in a hurricane-prone region as defined in ASCE/SEI 7-16 Section 26.2.

Ice

Results:

Ice Thickness:	0.25 in.
Concurrent Temperature:	5 F
Gust Speed	50 mph
Data Source:	Standard ASCE/SEI 7-16, Figs. 10-2 through 10-8
Date Accessed:	Wed Feb 09 2022

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

In the mountain west, ice thicknesses may exceed the mapped values in the foothills and passes. However, at elevations above 5,000 ft, freezing rain is unlikely.

Values provided are equivalent radial ice thicknesses due to freezing rain with concurrent 3-second gust speeds, for a 500-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.

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smartlink

March 31, 2022

This sheet of drawings has not been reviewed for code compliance.

City of Aurora Planning & Community Development
15151 E. Alameda Parkway #2300
Aurora, CO 80012

VIA online portal

RE: Request for Minor Modification to Existing Wireless Facility - Section 6409/47 CFR § 1.6100 ("6409")
Site Address: 1501 South Potomac Aurora, CO 80045
Prior Case No.: 2006-6018-03
AT&T Project No.: COL01176 Humana/ FA: 10093833/ 5G NR 1SR CBand, D0D

Dear City of Aurora Planner,

On behalf of New Cingular Wireless PCS, LLC ("**AT&T**") we are pleased to submit this request to modify AT&T's existing wireless communication site at the location referenced above, as an Eligible Facilities Request for a minor modification under Section 6409 and Federal Communications Commission ("FCC") rules. A copy of the 6409 rule is enclosed for your information.

Scope of Work
AT&T proposes the following minor modifications to this site. (Please note: all work will be performed wholly within the existing premises and utility easements and the project otherwise complies with the site's prior conditions of approval.

Component	Federal Section 6409 Limits	AT&T's Proposed Modification
Increase height of original structure	10 feet or less	No increase in height
Antennas extending horizontally from edge of structure	6 feet or less	Antennas do not extend horizontally from edge of structure
Additional equipment cabinets	4 or fewer (does not include separately mounted radios and other pieces of equipment); no new ground-mounted cabinets if there were none before; if there were ground-mounted cabinets, then no new ground-mounted cabinets more than 10% larger than the existing cabinets	No additional equipment cabinets are being added

Concealment Elements
The existing wireless facility is a stealth-designed facility, consisting of screen walls surrounding all rooftop equipment. All ground equipment is enclosed inside an equipment shelter. The proposed minor modification will continue to be an effective stealth for the wireless facility and therefore will not defeat the existing concealment.

FCC Shot Clock for Section 6409 Minor Modifications
AT&T requests approval of the following applications, as well as any other authorizations necessary, for its proposed minor modification under Section 6409:

- Building Plan Review and Permit Application

The FCC requires that all authorizations related to 6409 applications be completed within 60 days after filing. Based on a filing date of 3/31/2022, the projected shot-clock deadline for a decision is May 31, 2022.

Our goal is to work with you to obtain approval of this minor modification earlier than the deadline. We will respond promptly to any requests for information you may have for our application. Please let us know how we can work with you to expedite the approval process. We look forward to working with you on this important project, which will significantly improve wireless telecommunication services in your community without requiring an additional site. Should you have any questions or require additional information, please do not hesitate to contact me.

Sincerely,

Cathi Peterson

Cathi Peterson

Enclosures: Plans and drawings; Zoning Letter; Structural Analysis

cc: Ashley Wessel