

Criteria Notes:

Typical 2017 NESC C2-2017 Criteria File for PLS-CADD Created September 5, 2017 Version 15.00

Assumed NESC Medium Combined Ice and Wind District Loading (Rule 250B)
Assumed 90 MPH Extreme Wind Loading (Rule 250C); To be verified by the Engineer of Record
Assumed 3/4" Extreme Ice with 30 MPH Concurrent Wind Loading (Rule 250D); To be verified by the Engineer of Record
Assumed Maximum Operating Temperature of 212 F; To be verified by the Engineer of Record
Assumed 1/2" Extreme Ice (Non-NESC); To be verified by the Engineer of Record
Assumed Grade B Construction by default. Grade C and Grade C Crossing can be assigned to structures manually using the Structure Groups as discussed in section 7.3.12.9 of the PLS-CADD manual; To be verified by the Engineer of Record

<<Illustration of NESC provisions include>>

- > Combined Ice and Wind District Loading NESC Medium per Rule 250B, Page 203
- > Extreme Wind Loading per Rule 250C, Page 203, Coefficients and Gust Response Factors per Equations in Tables 250-2 and 250-3
- > Assumed 90 MPH Basic Wind Speed, 3 second Gust Wind Speed, Figure 250-2 Beginning on Page 207
- > Grade B Construction "Method A" per Table 253-1, Page 225 and Table 261-1, Page 235
- > Extreme Ice with Concurrent Wind Loading per Rule 250D, Page 205
- > Assumed 3/4" Basic Ice Diameter with Concurrent 30 MPH Basic Wind Speed, Figure 250-3 Beginning on Page 212
- > Cable Tension and Automatic Sagging Limits per Rule 261H1, Page 232
- **** NESC Rule 261H1c, Note 2 states that the 'Final' tension limit be applied under the creep condition only. Although this is a new note in the 2017 NESC, this is the interpretation that PLS has applied to all previous NESC criteria files so there is no change from previous editions in PLS. ****
- **** PLEASE NOTE - Many experts consider these maximum limits to be high and could lead to severe aeolian vibration. As stated in NESC Rule 261H1b, PLS recommends checking with your cable manufacturer, damper manufacturer, and/or other standards for recommended values based on the actual vibration mitigation methods used ****
- > Insulator Mechanical Strengths per Rule 277, Page 242 - Important Note for Strength Check:
 - **** NESC Rule 277 specifically excludes Rule 253 Load Factors for checking the mechanical strength of insulators. This criteria checks insulators for all weather conditions, including load factors. This may be considered conservative by some and can be modified if desired. ****
 - **** When specifying the insulator strength properties in Components/Insulators in TOWER and PLS-POLE, the manufacturer's recommended load capacities shall be used per NESC Table 277-1. This is normally the RTL and RCL values published by the non-ceramic insulator manufacturers. See IEEE Std 1572-2004 IEEE Guide for Application of Composite Line Post Insulators for further clarification. ****
 - **** User may prefer to add other specific load cases utilizing alternative Strength Factors ****
 - **** Coordination of Load Factors, Strength Factors, and Component strength properties is the responsibility of the Engineer of Record ****
 - **** See Tech Note at http://www.powline.com/products/nesc_insulators.html for additional discussion ****
- > Structure Loads criteria includes typical Full Structure DE cases
- > Structure Loads criteria includes longitudinal extreme wind check per Rule 261A1c (Page 227), Rule 261A2e (Page 228), and Rule 261A3d (Page 228)

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***** THE CRITERIA FILE USED FOR GUC DESIGNS USES 120 MPH WINDS FOR THE EXTREME WIND LOADING CASE (10 MPH GREATER THAN REQUIRED PER NESC 2017), AND 1 INCH OF ICE FOR THE CONCURRENT WIND AND ICE LOAD CASE (.5 INCHES GREATER THAN REQUIRED PER NESC 2017). IF STRUCTURES ARE SLIGHTLY OVERUSED WITH THIS LOAD CASE, THE ENGINEER MAY STILL FIND THE STRUCTURE CLASS ACCEPTABLE.

Structure #4 'N:\Jacob S\PLS\pls_pole\Projects\Wint SS FeedThru\11.1.POL'
Station 582.85 (ft), Line angle 0 (deg), Orientation angle 270 (deg)

Weather Cases

WC Description #	Air Density Factor (psf/mph^2)	Wind Vel. (mph)	Wind Pres. (psf)	Wire Ice Thick (in)	Wire Ice Density (lbs/ft^3)	Wire Ice Load (lbs/ft)	Wire Temp (deg F)	Ambient Temp (deg F)	Weather Load Factor	NESC Constant (lbs/ft)	Wire Wind Height Adjust Model	Wire Gust Response Factor
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1	NESC Medium District Loading (250B)	0.00256	40	4.0	0.25	57.000	0.00	15	15	1.00	0.20	None		1
2	NESC Extreme Wind (250C)	0.00256	120	36.9	0.00	0.000	0.00	60	60	1.00	0.00	NESC 2017	NESC 2017	
3	NESC Concurrent Ice and Wind (250D)	0.00256	40	4.1	1.00	57.000	0.00	15	15	1.00	0.00	None		1
4	Extreme Ice	0.00256	0	0.0	0.50	57.000	0.00	30	30	1.00	0.00	None		1
5	Cold Uplift	0.00256	0	0.0	0.00	0.000	0.00	-5	-5	1.00	0.00	None		1
6	Maximum Operating	0.00256	0	0.0	0.00	0.000	0.00	212	90	1.00	0.00	None		1
7	NESC Tension Limit (261H1c)	0.00256	0	0.0	0.00	0.000	0.00	15	15	1.00	0.00	None		1
8	NESC Blowout 6PSF	0.00256	48	6.0	0.00	0.000	0.00	60	60	1.00	0.00	None		1
9	No Wind (SWING 1)	0.00256	0	0.0	0.00	0.000	0.00	60	60	1.00	0.00	None		1
10	Moderate Wind (SWING 2)	0.00256	48	6.0	0.00	0.000	0.00	32	32	1.00	0.00	None		1
11	Moderate Wind (SWING 3)	0.00256	48	6.0	0.00	0.000	0.00	60	60	1.00	0.00	None		1
12	High Wind (SWING 4)	0.00256	90	20.7	0.00	0.000	0.00	60	60	1.00	0.00	None		1
13	GALLOPING (SWING)	0.00256	28	2.0	0.50	57.000	0.00	32	32	1.00	0.00	None		1
14	GALLOPING (SAG)	0.00256	0	0.0	0.50	57.000	0.00	32	32	1.00	0.00	None		1
15	-20 Deg F	0.00256	0	0.0	0.00	0.000	0.00	-20	-20	1.00	0.00	None		1
16	0 Deg F	0.00256	0	0.0	0.00	0.000	0.00	0	0	1.00	0.00	None		1
17	30 Deg F	0.00256	0	0.0	0.00	0.000	0.00	30	30	1.00	0.00	None		1
18	32 Deg F 1/2 Inch Ice	0.00256	0	0.0	0.50	57.000	0.00	32	32	1.00	0.00	None		1
19	60 Deg F	0.00256	0	0.0	0.00	0.000	0.00	60	60	1.00	0.00	None		1
20	90 Deg F	0.00256	0	0.0	0.00	0.000	0.00	90	90	1.00	0.00	None		1
21	120 Deg F	0.00256	0	0.0	0.00	0.000	0.00	120	90	1.00	0.00	None		1
22	167 Deg F	0.00256	0	0.0	0.00	0.000	0.00	167	90	1.00	0.00	None		1
23	212 Deg F	0.00256	0	0.0	0.00	0.000	0.00	212	90	1.00	0.00	None		1

Structure Loads Criteria

LC #	WC #	Load Case Description	Cable Condition	Wind Dir.	Bisect Wind Angle	Wire Vert. Load Factor	Wire + Struct. Wind Load Factor	Wire Tension Load Factor	Struct Weight Load Factor	Struct Wind Area Factor	Struct. Wind Load Model	Struct. Ice Thick (in)	Struct. Ice Density (lbs/ft^3)	Pole Tip Deflection Check	Pole Tip Deflect Limit % or (ft)
1	1	RULE 250B GRADE	Initial RS	NA+		1.50	2.50	1.65	1.50	1.00	Wind on Face	0.00	0.000	No Limit	0.00
2	1	RULE 250B GRADE	Initial RS	NA-		1.50	2.50	1.65	1.50	1.00	Wind on Face	0.00	0.000	No Limit	0.00
3	1	RULE 250B GRADE	Initial RS	NA+		1.00	2.50	1.65	1.00	1.00	Wind on Face	0.00	0.000	No Limit	0.00
4	1	RULE 250B GRADE	Initial RS	NA-		1.00	2.50	1.65	1.00	1.00	Wind on Face	0.00	0.000	No Limit	0.00
5	2	RULE 250C GRADE	Initial RS	NA+		1.00	1.00	1.00	1.00	1.00	NESC 2017	0.00	0.000	No Limit	0.00
6	2	RULE 250C GRADE	Initial RS	NA-		1.00	1.00	1.00	1.00	1.00	NESC 2017	0.00	0.000	No Limit	0.00
7	3	RULE 250D GRADE	Initial RS	NA+		1.00	1.00	1.00	1.00	1.00	Wind on Face	0.00	0.000	No Limit	0.00
8	3	RULE 250D GRADE	Initial RS	NA-		1.00	1.00	1.00	1.00	1.00	Wind on Face	0.00	0.000	No Limit	0.00
9	1	RULE 250B GRADE	Initial RS	NA+		1.90	1.75	1.30	1.90	1.00	Wind on Face	0.00	0.000	No Limit	0.00
10	1	RULE 250B GRADE	Initial RS	NA-		1.90	1.75	1.30	1.90	1.00	Wind on Face	0.00	0.000	No Limit	0.00
11	1	RULE 250B GRADE	Initial RS	NA+		1.00	1.75	1.30	1.00	1.00	Wind on Face	0.00	0.000	No Limit	0.00
12	1	RULE 250B GRADE	Initial RS	NA-		1.00	1.75	1.30	1.00	1.00	Wind on Face	0.00	0.000	No Limit	0.00
13	2	RULE 250C GRADE	Initial RS	NA+		1.00	0.87	1.00	1.00	1.00	NESC 2017	0.00	0.000	No Limit	0.00
14	2	RULE 250C GRADE	Initial RS	NA-		1.00	0.87	1.00	1.00	1.00	NESC 2017	0.00	0.000	No Limit	0.00
15	3	RULE 250D GRADE	Initial RS	NA+		1.00	1.00	1.00	1.00	1.00	Wind on Face	0.00	0.000	No Limit	0.00
16	3	RULE 250D GRADE	Initial RS	NA-		1.00	1.00	1.00	1.00	1.00	Wind on Face	0.00	0.000	No Limit	0.00
17	1	RULE 250B GRADE	Initial RS	NA+		1.90	2.20	1.30	1.90	1.00	Wind on Face	0.00	0.000	No Limit	0.00
18	1	RULE 250B GRADE	Initial RS	NA-		1.90	2.20	1.30	1.90	1.00	Wind on Face	0.00	0.000	No Limit	0.00
19	1	RULE 250B GRADE	Initial RS	NA+		1.00	2.20	1.30	1.00	1.00	Wind on Face	0.00	0.000	No Limit	0.00
20	1	RULE 250B GRADE	Initial RS	NA-		1.00	2.20	1.30	1.00	1.00	Wind on Face	0.00	0.000	No Limit	0.00
21	2	RULE 250C GRADE	Initial RS	NA+		1.00	0.87	1.00	1.00	1.00	NESC 2017	0.00	0.000	No Limit	0.00
22	2	RULE 250C GRADE	Initial RS	NA-		1.00	0.87	1.00	1.00	1.00	NESC 2017	0.00	0.000	No Limit	0.00
23	3	RULE 250D GRADE	Initial RS	NA+		1.00	1.00	1.00	1.00	1.00	Wind on Face	0.00	0.000	No Limit	0.00
24	3	RULE 250D GRADE	Initial RS	NA-		1.00	1.00	1.00	1.00	1.00	Wind on Face	0.00	0.000	No Limit	0.00
25	1	RULE 277 Insulat	Initial RS	NA+		1.00	1.00	1.00	1.00	1.00	Wind on Face	0.00	0.000	No Limit	0.00
26	1	RULE 277 Insulat	Initial RS	NA-		1.00	1.00	1.00	1.00	1.00	Wind on Face	0.00	0.000	No Limit	0.00
27	4	Extreme Ice NA+	Initial RS	NA+		1.00	1.00	1.00	1.00	1.00	Wind on Face	0.00	0.000	No Limit	0.00
28	4	Extreme Ice NA-	Initial RS	NA-		1.00	1.00	1.00	1.00	1.00	Wind on Face	0.00	0.000	No Limit	0.00
29	5	Uplift	Initial RS	NA+		1.00	1.00	1.00	1.00	1.00	Wind on Face	0.00	0.000	No Limit	0.00
30	2	RULE 261A	Initial RS	Max		1.00	1.00	1.00	1.00	1.00	NESC 2017	0.00	0.000	No Limit	0.00
31	1	RULE 250B GRADE	Initial RS	NA+		1.50	2.50	1.65	1.50	1.00	Wind on Face	0.00	0.000	No Limit	0.00

32	1	RULE 250B GRADE	Initial RS	NA-	1.50	2.50	1.65	1.50	1.00	Wind on Face	0.00	0.000	No Limit	0.00
33	1	RULE 250B GRADE	Initial RS	NA+	1.50	2.50	1.65	1.50	1.00	Wind on Face	0.00	0.000	No Limit	0.00
34	1	RULE 250B GRADE	Initial RS	NA-	1.50	2.50	1.65	1.50	1.00	Wind on Face	0.00	0.000	No Limit	0.00
35	2	RULE 250C GRADE	Initial RS	NA+	1.00	1.00	1.00	1.00	1.00	NESC 2017	0.00	0.000	No Limit	0.00
36	2	RULE 250C GRADE	Initial RS	NA-	1.00	1.00	1.00	1.00	1.00	NESC 2017	0.00	0.000	No Limit	0.00
37	2	RULE 250C GRADE	Initial RS	NA+	1.00	1.00	1.00	1.00	1.00	NESC 2017	0.00	0.000	No Limit	0.00
38	2	RULE 250C GRADE	Initial RS	NA-	1.00	1.00	1.00	1.00	1.00	NESC 2017	0.00	0.000	No Limit	0.00
39	3	RULE 250D GRADE	Initial RS	NA+	1.00	1.00	1.00	1.00	1.00	Wind on Face	0.00	0.000	No Limit	0.00
40	3	RULE 250D GRADE	Initial RS	NA-	1.00	1.00	1.00	1.00	1.00	Wind on Face	0.00	0.000	No Limit	0.00
41	3	RULE 250D GRADE	Initial RS	NA+	1.00	1.00	1.00	1.00	1.00	Wind on Face	0.00	0.000	No Limit	0.00
42	3	RULE 250D GRADE	Initial RS	NA-	1.00	1.00	1.00	1.00	1.00	Wind on Face	0.00	0.000	No Limit	0.00
43	1	RULE 250B GRADE	Initial RS	NA+	1.90	1.75	1.30	1.90	1.00	Wind on Face	0.00	0.000	No Limit	0.00
44	1	RULE 250B GRADE	Initial RS	NA-	1.90	1.75	1.30	1.90	1.00	Wind on Face	0.00	0.000	No Limit	0.00
45	1	RULE 250B GRADE	Initial RS	NA+	1.90	1.75	1.30	1.90	1.00	Wind on Face	0.00	0.000	No Limit	0.00
46	1	RULE 250B GRADE	Initial RS	NA-	1.90	1.75	1.30	1.90	1.00	Wind on Face	0.00	0.000	No Limit	0.00
47	2	RULE 250C GRADE	Initial RS	NA+	1.00	0.87	1.00	1.00	1.00	NESC 2017	0.00	0.000	No Limit	0.00
48	2	RULE 250C GRADE	Initial RS	NA-	1.00	0.87	1.00	1.00	1.00	NESC 2017	0.00	0.000	No Limit	0.00
49	2	RULE 250C GRADE	Initial RS	NA+	1.00	0.87	1.00	1.00	1.00	NESC 2017	0.00	0.000	No Limit	0.00
50	2	RULE 250C GRADE	Initial RS	NA-	1.00	0.87	1.00	1.00	1.00	NESC 2017	0.00	0.000	No Limit	0.00
51	3	RULE 250D GRADE	Initial RS	NA+	1.00	1.00	1.00	1.00	1.00	Wind on Face	0.00	0.000	No Limit	0.00
52	3	RULE 250D GRADE	Initial RS	NA-	1.00	1.00	1.00	1.00	1.00	Wind on Face	0.00	0.000	No Limit	0.00
53	3	RULE 250D GRADE	Initial RS	NA+	1.00	1.00	1.00	1.00	1.00	Wind on Face	0.00	0.000	No Limit	0.00
54	3	RULE 250D GRADE	Initial RS	NA-	1.00	1.00	1.00	1.00	1.00	Wind on Face	0.00	0.000	No Limit	0.00
55	1	RULE 250B GRADE	Initial RS	NA+	1.90	2.20	1.30	1.90	1.00	Wind on Face	0.00	0.000	No Limit	0.00
56	1	RULE 250B GRADE	Initial RS	NA-	1.90	2.20	1.30	1.90	1.00	Wind on Face	0.00	0.000	No Limit	0.00
57	1	RULE 250B GRADE	Initial RS	NA+	1.90	2.20	1.30	1.90	1.00	Wind on Face	0.00	0.000	No Limit	0.00
58	1	RULE 250B GRADE	Initial RS	NA-	1.90	2.20	1.30	1.90	1.00	Wind on Face	0.00	0.000	No Limit	0.00
59	2	RULE 250C GRADE	Initial RS	NA+	1.00	0.87	1.00	1.00	1.00	NESC 2017	0.00	0.000	No Limit	0.00
60	2	RULE 250C GRADE	Initial RS	NA-	1.00	0.87	1.00	1.00	1.00	NESC 2017	0.00	0.000	No Limit	0.00
61	2	RULE 250C GRADE	Initial RS	NA+	1.00	0.87	1.00	1.00	1.00	NESC 2017	0.00	0.000	No Limit	0.00
62	2	RULE 250C GRADE	Initial RS	NA-	1.00	0.87	1.00	1.00	1.00	NESC 2017	0.00	0.000	No Limit	0.00
63	3	RULE 250D GRADE	Initial RS	NA+	1.00	1.00	1.00	1.00	1.00	Wind on Face	0.00	0.000	No Limit	0.00
64	3	RULE 250D GRADE	Initial RS	NA-	1.00	1.00	1.00	1.00	1.00	Wind on Face	0.00	0.000	No Limit	0.00
65	3	RULE 250D GRADE	Initial RS	NA+	1.00	1.00	1.00	1.00	1.00	Wind on Face	0.00	0.000	No Limit	0.00
66	3	RULE 250D GRADE	Initial RS	NA-	1.00	1.00	1.00	1.00	1.00	Wind on Face	0.00	0.000	No Limit	0.00
67	4	Extreme Ice	Initial RS	NA+	1.00	1.00	1.00	1.00	1.00	Wind on Face	0.00	0.000	No Limit	0.00
68	4	Extreme Ice	Initial RS	NA-	1.00	1.00	1.00	1.00	1.00	Wind on Face	0.00	0.000	No Limit	0.00
69	4	Extreme Ice	Initial RS	NA+	1.00	1.00	1.00	1.00	1.00	Wind on Face	0.00	0.000	No Limit	0.00
70	4	Extreme Ice	Initial RS	NA-	1.00	1.00	1.00	1.00	1.00	Wind on Face	0.00	0.000	No Limit	1.50
71	19	CAMBER	Initial RS	NA+	1.00	1.00	1.00	1.00	1.00	Wind on Face	0.00	0.000	% Pole Height	1.50

Cable Load Adjustments for each Load Case

LC #	WC #	Load Case Description	Struct Groups On Which To Apply	Command Wire(s) Set: Phase: Side:	Command Value (lbs) (deg) (%)
1	1	RULE 250B GRADE	'Grade B'		
2	1	RULE 250B GRADE	'Grade B'		
3	1	RULE 250B GRADE	'Grade B'		
4	1	RULE 250B GRADE	'Grade B'		
5	2	RULE 250C GRADE	'Grade B'		
6	2	RULE 250C GRADE	'Grade B'		
7	3	RULE 250D GRADE	'Grade B'		
8	3	RULE 250D GRADE	'Grade B'		
9	1	RULE 250B GRADE	'Grade C'		
10	1	RULE 250B GRADE	'Grade C'		
11	1	RULE 250B GRADE	'Grade C'		
12	1	RULE 250B GRADE	'Grade C'		
13	2	RULE 250C GRADE	'Grade C'		
14	2	RULE 250C GRADE	'Grade C'		
15	3	RULE 250D GRADE	'Grade C'		

[illegible]

Span and Wire Summary

Span azimuth is measured clockwise from structure transverse axis (0=transverse, 90=back, 270=ahead)
Azimuth of structure transverse axis is 107.7048 (deg) measured clockwise from North.

LC	WC	Load Case	Set	Phase	Attach.	-----Back span-----					-----Ahead span-----						
#	#	Description	No.	No.	Joint	Cable	Len.	Azi.	Horiz.	Vert.	Horiz.	Cable	Len.	Azi.	Horiz.	Vert.	Horiz.

Labels Name (ft) (deg) -----Load----- Tension										Name (ft) (deg) -----Load----- Tension									
1	1	RULE 250B GRADE	1	1	SW-1A		0	162	0.00	0.00	0	7no_9_alumoweld.wir	230	89	0.70	0.59	6268		
1	1		2	1	SW-1B	7no_9_alumoweld.wir	214	270	0.70	0.59	6249		0	342	0.00	0.00	0		
1	1		3	1	SW-C	7no_9_alumoweld.wir	247	180	0.70	0.59	6306		0	342	0.00	0.00	0		
1	1		5	1	T-1A		0	162	0.00	0.00	0	narcissus_aac.wir	230	89	1.50	2.51	11964		
1	1		5	2	T-2A		0	162	0.00	0.00	0	narcissus_aac.wir	230	89	1.50	2.51	11964		
1	1		5	3	T-3A		0	162	0.00	0.00	0	narcissus_aac.wir	230	89	1.50	2.51	11964		
1	1		6	1	T1-B	narcissus_aac.wir	213	270	1.50	2.51	11733		0	342	0.00	0.00	0		
1	1		6	2	T-2B	narcissus_aac.wir	213	270	1.50	2.51	11733		0	342	0.00	0.00	0		
1	1		6	3	T-3B	narcissus_aac.wir	213	270	1.50	2.51	11733		0	342	0.00	0.00	0		
1	1		7	1	T-1C	narcissus_aac.wir	247	180	1.50	2.51	12238		0	342	0.00	0.00	0		
1	1		7	2	T-2C	narcissus_aac.wir	246	180	1.50	2.51	12238		0	342	0.00	0.00	0		
1	1		7	3	T-3C	narcissus_aac.wir	246	180	1.50	2.51	12238		0	342	0.00	0.00	0		
1	1		11	1	D1A	arbutus_aac.wir	215	270	1.27	1.71	8133	arbutus_aac.wir	233	91	1.27	1.71	8133		
1	1		11	2	D2A	arbutus_aac.wir	215	270	1.27	1.71	8133	arbutus_aac.wir	233	91	1.27	1.71	8133		
1	1		11	3	D3A	arbutus_aac.wir	215	270	1.27	1.71	8133	arbutus_aac.wir	233	91	1.27	1.71	8133		
1	1		12	1	D1B	arbutus_aac.wir	215	270	1.27	1.71	8133	arbutus_aac.wir	233	88	1.27	1.71	8133		
1	1		12	2	D2B	arbutus_aac.wir	215	270	1.27	1.71	8133	arbutus_aac.wir	233	88	1.27	1.71	8133		
1	1		12	3	D3B	arbutus_aac.wir	215	270	1.27	1.71	8133	arbutus_aac.wir	233	88	1.27	1.71	8133		
1	1		21	1	N	merlin_acsr.wir	214	270	0.99	0.98	5007	merlin_acsr.wir	231	89	0.99	0.98	5007		
2	1	RULE 250B GRADE	1	1	SW-1A		0	162	0.00	0.00	0	7no_9_alumoweld.wir	230	89	0.70	0.59	6268		
2	1		2	1	SW-1B	7no_9_alumoweld.wir	214	270	0.70	0.59	6249		0	342	0.00	0.00	0		
2	1		3	1	SW-C	7no_9_alumoweld.wir	247	180	0.70	0.59	6306		0	342	0.00	0.00	0		
2	1		5	1	T-1A		0	162	0.00	0.00	0	narcissus_aac.wir	230	89	1.50	2.51	11964		
2	1		5	2	T-2A		0	162	0.00	0.00	0	narcissus_aac.wir	230	89	1.50	2.51	11964		
2	1		5	3	T-3A		0	162	0.00	0.00	0	narcissus_aac.wir	230	89	1.50	2.51	11964		
2	1		6	1	T1-B	narcissus_aac.wir	213	270	1.50	2.51	11733		0	342	0.00	0.00	0		
2	1		6	2	T-2B	narcissus_aac.wir	213	270	1.50	2.51	11733		0	342	0.00	0.00	0		
2	1		6	3	T-3B	narcissus_aac.wir	213	270	1.50	2.51	11733		0	342	0.00	0.00	0		
2	1		7	1	T-1C	narcissus_aac.wir	247	180	1.50	2.51	12238		0	342	0.00	0.00	0		
2	1		7	2	T-2C	narcissus_aac.wir	246	180	1.50	2.51	12238		0	342	0.00	0.00	0		
2	1		7	3	T-3C	narcissus_aac.wir	246	180	1.50	2.51	12238		0	342	0.00	0.00	0		
2	1		11	1	D1A	arbutus_aac.wir	215	270	1.27	1.71	8133	arbutus_aac.wir	233	91	1.27	1.71	8133		
2	1		11	2	D2A	arbutus_aac.wir	215	270	1.27	1.71	8133	arbutus_aac.wir	233	91	1.27	1.71	8133		
2	1		11	3	D3A	arbutus_aac.wir	215	270	1.27	1.71	8133	arbutus_aac.wir	233	91	1.27	1.71	8133		
2	1		12	1	D1B	arbutus_aac.wir	215	270	1.27	1.71	8133	arbutus_aac.wir	233	88	1.27	1.71	8133		
2	1		12	2	D2B	arbutus_aac.wir	215	270	1.27	1.71	8133	arbutus_aac.wir	233	88	1.27	1.71	8133		
2	1		12	3	D3B	arbutus_aac.wir	215	270	1.27	1.71	8133	arbutus_aac.wir	233	88	1.27	1.71	8133		
2	1		21	1	N	merlin_acsr.wir	214	270	0.99	0.98	5007	merlin_acsr.wir	231	89	0.99	0.98	5007		
3	1	RULE 250B GRADE	1	1	SW-1A		0	162	0.00	0.00	0	7no_9_alumoweld.wir	230	89	0.70	0.39	6268		
3	1		2	1	SW-1B	7no_9_alumoweld.wir	214	270	0.70	0.39	6249		0	342	0.00	0.00	0		
3	1		3	1	SW-C	7no_9_alumoweld.wir	247	180	0.70	0.39	6306		0	342	0.00	0.00	0		
3	1		5	1	T-1A		0	162	0.00	0.00	0	narcissus_aac.wir	230	89	1.50	1.68	11964		
3	1		5	2	T-2A		0	162	0.00	0.00	0	narcissus_aac.wir	230	89	1.50	1.68	11964		
3	1		5	3	T-3A		0	162	0.00	0.00	0	narcissus_aac.wir	230	89	1.50	1.68	11964		
3	1		6	1	T1-B	narcissus_aac.wir	213	270	1.50	1.68	11733		0	342	0.00	0.00	0		
3	1		6	2	T-2B	narcissus_aac.wir	213	270	1.50	1.68	11733		0	342	0.00	0.00	0		
3	1		6	3	T-3B	narcissus_aac.wir	213	270	1.50	1.68	11733		0	342	0.00	0.00	0		
3	1		7	1	T-1C	narcissus_aac.wir	247	180	1.50	1.68	12238		0	342	0.00	0.00	0		
3	1		7	2	T-2C	narcissus_aac.wir	246	180	1.50	1.68	12238		0	342	0.00	0.00	0		
3	1		7	3	T-3C	narcissus_aac.wir	246	180	1.50	1.68	12238		0	342	0.00	0.00	0		
3	1		11	1	D1A	arbutus_aac.wir	215	270	1.27	1.14	8133	arbutus_aac.wir	233	91	1.27	1.14	8133		
3	1		11	2	D2A	arbutus_aac.wir	215	270	1.27	1.14	8133	arbutus_aac.wir	233	91	1.27	1.14	8133		
3	1		11	3	D3A	arbutus_aac.wir	215	270	1.27	1.14	8133	arbutus_aac.wir	233	91	1.27	1.14	8133		
3	1		12	1	D1B	arbutus_aac.wir	215	270	1.27	1.14	8133	arbutus_aac.wir	233	88	1.27	1.14	8133		
3	1		12	2	D2B	arbutus_aac.wir	215	270	1.27	1.14	8133	arbutus_aac.wir	233	88	1.27	1.14	8133		
3	1		12	3	D3B	arbutus_aac.wir	215	270	1.27	1.14	8133	arbutus_aac.wir	233	88	1.27	1.14	8133		
3	1		21	1	N	merlin_acsr.wir	214	270	0.99	0.66	5007	merlin_acsr.wir	231	89	0.99	0.66	5007		
4	1	RULE 250B GRADE	1	1	SW-1A		0	162	0.00	0.00	0	7no_9_alumoweld.wir	230	89	0.70	0.39	6268		
4	1		2	1	SW-1B	7no_9_alumoweld.wir	214	270	0.70	0.39	6249		0	342	0.00	0.00	0		
4	1		3	1	SW-C	7no_9_alumoweld.wir	247	180	0.70	0.39	6306		0	342	0.00	0.00	0		
4	1		5	1	T-1A		0	162	0.00	0.00	0	narcissus_aac.wir	230	89	1.50	1.68	11964		
4	1		5	2	T-2A		0	162	0.00	0.00	0	narcissus_aac.wir	230	89	1.50	1.68	11964		

4	1		5	3	T-3A		0	162	0.00	0.00	0	narcissus_aac.wir	230	89	1.50	1.68	11964
4	1		6	1	T1-B	narcissus_aac.wir	213	270	1.50	1.68	11733		0	342	0.00	0.00	0
4	1		6	2	T-2B	narcissus_aac.wir	213	270	1.50	1.68	11733		0	342	0.00	0.00	0
4	1		6	3	T-3B	narcissus_aac.wir	213	270	1.50	1.68	11733		0	342	0.00	0.00	0
4	1		7	1	T-1C	narcissus_aac.wir	247	180	1.50	1.68	12238		0	342	0.00	0.00	0
4	1		7	2	T-2C	narcissus_aac.wir	246	180	1.50	1.68	12238		0	342	0.00	0.00	0
4	1		7	3	T-3C	narcissus_aac.wir	246	180	1.50	1.68	12238		0	342	0.00	0.00	0
4	1		11	1	D1A	arbutus_aac.wir	215	270	1.27	1.14	8133	arbutus_aac.wir	233	91	1.27	1.14	8133
4	1		11	2	D2A	arbutus_aac.wir	215	270	1.27	1.14	8133	arbutus_aac.wir	233	91	1.27	1.14	8133
4	1		11	3	D3A	arbutus_aac.wir	215	270	1.27	1.14	8133	arbutus_aac.wir	233	91	1.27	1.14	8133
4	1		12	1	D1B	arbutus_aac.wir	215	270	1.27	1.14	8133	arbutus_aac.wir	233	88	1.27	1.14	8133
4	1		12	2	D2B	arbutus_aac.wir	215	270	1.27	1.14	8133	arbutus_aac.wir	233	88	1.27	1.14	8133
4	1		12	3	D3B	arbutus_aac.wir	215	270	1.27	1.14	8133	arbutus_aac.wir	233	88	1.27	1.14	8133
4	1		21	1	N	merlin_acsr.wir	214	270	0.99	0.66	5007	merlin_acsr.wir	231	89	0.99	0.66	5007
5	2	RULE 250C GRADE	1	1	SW-1A		0	162	0.00	0.00	0	7no_9_alumoweld.wir	230	89	0.98	0.21	3478
5	2		2	1	SW-1B	7no_9_alumoweld.wir	214	270	0.99	0.21	3447		0	342	0.00	0.00	0
5	2		3	1	SW-C	7no_9_alumoweld.wir	247	180	0.99	0.21	3526		0	342	0.00	0.00	0
5	2		5	1	T-1A		0	162	0.00	0.00	0	narcissus_aac.wir	230	89	3.66	1.19	6840
5	2		5	2	T-2A		0	162	0.00	0.00	0	narcissus_aac.wir	230	89	3.58	1.19	6840
5	2		5	3	T-3A		0	162	0.00	0.00	0	narcissus_aac.wir	230	89	3.50	1.19	6840
5	2		6	1	T1-B	narcissus_aac.wir	213	270	3.68	1.19	6578		0	342	0.00	0.00	0
5	2		6	2	T-2B	narcissus_aac.wir	213	270	3.61	1.19	6578		0	342	0.00	0.00	0
5	2		6	3	T-3B	narcissus_aac.wir	213	270	3.52	1.19	6578		0	342	0.00	0.00	0
5	2		7	1	T-1C	narcissus_aac.wir	247	180	3.68	1.19	7165		0	342	0.00	0.00	0
5	2		7	2	T-2C	narcissus_aac.wir	246	180	3.61	1.19	7165		0	342	0.00	0.00	0
5	2		7	3	T-3C	narcissus_aac.wir	246	180	3.53	1.19	7165		0	342	0.00	0.00	0
5	2		11	1	D1A	arbutus_aac.wir	215	270	2.71	0.75	4715	arbutus_aac.wir	233	91	2.69	0.75	4716
5	2		11	2	D2A	arbutus_aac.wir	215	270	2.67	0.75	4715	arbutus_aac.wir	233	91	2.65	0.75	4716
5	2		11	3	D3A	arbutus_aac.wir	215	270	2.62	0.75	4715	arbutus_aac.wir	233	91	2.60	0.75	4716
5	2		12	1	D1B	arbutus_aac.wir	215	270	2.71	0.75	4715	arbutus_aac.wir	233	88	2.69	0.75	4716
5	2		12	2	D2B	arbutus_aac.wir	215	270	2.67	0.75	4715	arbutus_aac.wir	233	88	2.65	0.75	4716
5	2		12	3	D3B	arbutus_aac.wir	215	270	2.62	0.75	4715	arbutus_aac.wir	233	88	2.60	0.75	4716
5	2		21	1	N	merlin_acsr.wir	214	270	1.75	0.37	3014	merlin_acsr.wir	231	89	1.74	0.37	3014
6	2	RULE 250C GRADE	1	1	SW-1A		0	162	0.00	0.00	0	7no_9_alumoweld.wir	230	89	0.98	0.21	3478
6	2		2	1	SW-1B	7no_9_alumoweld.wir	214	270	0.99	0.21	3447		0	342	0.00	0.00	0
6	2		3	1	SW-C	7no_9_alumoweld.wir	247	180	0.99	0.21	3526		0	342	0.00	0.00	0
6	2		5	1	T-1A		0	162	0.00	0.00	0	narcissus_aac.wir	230	89	3.66	1.19	6840
6	2		5	2	T-2A		0	162	0.00	0.00	0	narcissus_aac.wir	230	89	3.58	1.19	6840
6	2		5	3	T-3A		0	162	0.00	0.00	0	narcissus_aac.wir	230	89	3.50	1.19	6840
6	2		6	1	T1-B	narcissus_aac.wir	213	270	3.68	1.19	6578		0	342	0.00	0.00	0
6	2		6	2	T-2B	narcissus_aac.wir	213	270	3.61	1.19	6578		0	342	0.00	0.00	0
6	2		6	3	T-3B	narcissus_aac.wir	213	270	3.52	1.19	6578		0	342	0.00	0.00	0
6	2		7	1	T-1C	narcissus_aac.wir	247	180	3.68	1.19	7165		0	342	0.00	0.00	0
6	2		7	2	T-2C	narcissus_aac.wir	246	180	3.61	1.19	7165		0	342	0.00	0.00	0
6	2		7	3	T-3C	narcissus_aac.wir	246	180	3.53	1.19	7165		0	342	0.00	0.00	0
6	2		11	1	D1A	arbutus_aac.wir	215	270	2.71	0.75	4715	arbutus_aac.wir	233	91	2.69	0.75	4716
6	2		11	2	D2A	arbutus_aac.wir	215	270	2.67	0.75	4715	arbutus_aac.wir	233	91	2.65	0.75	4716
6	2		11	3	D3A	arbutus_aac.wir	215	270	2.62	0.75	4715	arbutus_aac.wir	233	91	2.60	0.75	4716
6	2		12	1	D1B	arbutus_aac.wir	215	270	2.71	0.75	4715	arbutus_aac.wir	233	88	2.69	0.75	4716
6	2		12	2	D2B	arbutus_aac.wir	215	270	2.67	0.75	4715	arbutus_aac.wir	233	88	2.65	0.75	4716
6	2		12	3	D3B	arbutus_aac.wir	215	270	2.62	0.75	4715	arbutus_aac.wir	233	88	2.60	0.75	4716
6	2		21	1	N	merlin_acsr.wir	214	270	1.75	0.37	3014	merlin_acsr.wir	231	89	1.74	0.37	3014
7	3	RULE 250D GRADE	1	1	SW-1A		0	162	0.00	0.00	0	7no_9_alumoweld.wir	230	89	0.80	1.88	4390
7	3		2	1	SW-1B	7no_9_alumoweld.wir	214	270	0.80	1.88	4316		0	342	0.00	0.00	0
7	3		3	1	SW-C	7no_9_alumoweld.wir	247	180	0.80	1.88	4473		0	342	0.00	0.00	0
7	3		5	1	T-1A		0	162	0.00	0.00	0	narcissus_aac.wir	230	89	1.13	4.05	8894
7	3		5	2	T-2A		0	162	0.00	0.00	0	narcissus_aac.wir	230	89	1.13	4.05	8894
7	3		5	3	T-3A		0	162	0.00	0.00	0	narcissus_aac.wir	230	89	1.13	4.05	8894
7	3		6	1	T1-B	narcissus_aac.wir	213	270	1.13	4.05	8642		0	342	0.00	0.00	0
7	3		6	2	T-2B	narcissus_aac.wir	213	270	1.13	4.05	8642		0	342	0.00	0.00	0
7	3		6	3	T-3B	narcissus_aac.wir	213	270	1.13	4.05	8642		0	342	0.00	0.00	0
7	3		7	1	T-1C	narcissus_aac.wir	247	180	1.13	4.05	9167		0	342	0.00	0.00	0
7	3		7	2	T-2C	narcissus_aac.wir	246	180	1.13	4.05	9167		0	342	0.00	0.00	0
7	3		7	3	T-3C	narcissus_aac.wir	246	180	1.13	4.05	9167		0	342	0.00	0.00	0
7	3		11	1	D1A	arbutus_aac.wir	215	270	1.03	3.27	6345	arbutus_aac.wir	233	91	1.03	3.27	6345

7	3		11	2	D2A	arbutus_aac.wir	215	270	1.03	3.27	6345	arbutus_aac.wir	233	91	1.03	3.27	6345
7	3		11	3	D3A	arbutus_aac.wir	215	270	1.03	3.27	6345	arbutus_aac.wir	233	91	1.03	3.27	6345
7	3		12	1	D1B	arbutus_aac.wir	215	270	1.03	3.27	6345	arbutus_aac.wir	233	88	1.03	3.27	6345
7	3		12	2	D2B	arbutus_aac.wir	215	270	1.03	3.27	6345	arbutus_aac.wir	233	88	1.03	3.27	6345
7	3		12	3	D3B	arbutus_aac.wir	215	270	1.03	3.27	6345	arbutus_aac.wir	233	88	1.03	3.27	6345
7	3		21	1	N	merlin_acsr.wir	214	270	0.92	2.46	4125	merlin_acsr.wir	231	89	0.92	2.46	4125
8	3	RULE 250D GRADE	1	1	SW-1A		0	162	0.00	0.00	0	7no_9_alumoweld.wir	230	89	0.80	1.88	4390
8	3		2	1	SW-1B	7no_9_alumoweld.wir	214	270	0.80	1.88	4316		0	342	0.00	0.00	0
8	3		3	1	SW-C	7no_9_alumoweld.wir	247	180	0.80	1.88	4473		0	342	0.00	0.00	0
8	3		5	1	T-1A		0	162	0.00	0.00	0	narcissus_aac.wir	230	89	1.13	4.05	8894
8	3		5	2	T-2A		0	162	0.00	0.00	0	narcissus_aac.wir	230	89	1.13	4.05	8894
8	3		5	3	T-3A		0	162	0.00	0.00	0	narcissus_aac.wir	230	89	1.13	4.05	8894
8	3		6	1	T1-B	narcissus_aac.wir	213	270	1.13	4.05	8642		0	342	0.00	0.00	0
8	3		6	2	T-2B	narcissus_aac.wir	213	270	1.13	4.05	8642		0	342	0.00	0.00	0
8	3		6	3	T-3B	narcissus_aac.wir	213	270	1.13	4.05	8642		0	342	0.00	0.00	0
8	3		7	1	T-1C	narcissus_aac.wir	247	180	1.13	4.05	9167		0	342	0.00	0.00	0
8	3		7	2	T-2C	narcissus_aac.wir	246	180	1.13	4.05	9167		0	342	0.00	0.00	0
8	3		7	3	T-3C	narcissus_aac.wir	246	180	1.13	4.05	9167		0	342	0.00	0.00	0
8	3		11	1	D1A	arbutus_aac.wir	215	270	1.03	3.27	6345	arbutus_aac.wir	233	91	1.03	3.27	6345
8	3		11	2	D2A	arbutus_aac.wir	215	270	1.03	3.27	6345	arbutus_aac.wir	233	91	1.03	3.27	6345
8	3		11	3	D3A	arbutus_aac.wir	215	270	1.03	3.27	6345	arbutus_aac.wir	233	91	1.03	3.27	6345
8	3		12	1	D1B	arbutus_aac.wir	215	270	1.03	3.27	6345	arbutus_aac.wir	233	88	1.03	3.27	6345
8	3		12	2	D2B	arbutus_aac.wir	215	270	1.03	3.27	6345	arbutus_aac.wir	233	88	1.03	3.27	6345
8	3		12	3	D3B	arbutus_aac.wir	215	270	1.03	3.27	6345	arbutus_aac.wir	233	88	1.03	3.27	6345
8	3		21	1	N	merlin_acsr.wir	214	270	0.92	2.46	4125	merlin_acsr.wir	231	89	0.92	2.46	4125
25	1	RULE 277 Insulat	1	1	SW-1A		0	162	0.00	0.00	0	7no_9_alumoweld.wir	230	89	0.28	0.39	3799
25	1		2	1	SW-1B	7no_9_alumoweld.wir	214	270	0.28	0.39	3787		0	342	0.00	0.00	0
25	1		3	1	SW-C	7no_9_alumoweld.wir	247	180	0.28	0.39	3822		0	342	0.00	0.00	0
25	1		5	1	T-1A		0	162	0.00	0.00	0	narcissus_aac.wir	230	89	0.60	1.68	7251
25	1		5	2	T-2A		0	162	0.00	0.00	0	narcissus_aac.wir	230	89	0.60	1.68	7251
25	1		5	3	T-3A		0	162	0.00	0.00	0	narcissus_aac.wir	230	89	0.60	1.68	7251
25	1		6	1	T1-B	narcissus_aac.wir	213	270	0.60	1.68	7111		0	342	0.00	0.00	0
25	1		6	2	T-2B	narcissus_aac.wir	213	270	0.60	1.68	7111		0	342	0.00	0.00	0
25	1		6	3	T-3B	narcissus_aac.wir	213	270	0.60	1.68	7111		0	342	0.00	0.00	0
25	1		7	1	T-1C	narcissus_aac.wir	247	180	0.60	1.68	7417		0	342	0.00	0.00	0
25	1		7	2	T-2C	narcissus_aac.wir	246	180	0.60	1.68	7417		0	342	0.00	0.00	0
25	1		7	3	T-3C	narcissus_aac.wir	246	180	0.60	1.68	7417		0	342	0.00	0.00	0
25	1		11	1	D1A	arbutus_aac.wir	215	270	0.51	1.14	4929	arbutus_aac.wir	233	91	0.51	1.14	4929
25	1		11	2	D2A	arbutus_aac.wir	215	270	0.51	1.14	4929	arbutus_aac.wir	233	91	0.51	1.14	4929
25	1		11	3	D3A	arbutus_aac.wir	215	270	0.51	1.14	4929	arbutus_aac.wir	233	91	0.51	1.14	4929
25	1		12	1	D1B	arbutus_aac.wir	215	270	0.51	1.14	4929	arbutus_aac.wir	233	88	0.51	1.14	4929
25	1		12	2	D2B	arbutus_aac.wir	215	270	0.51	1.14	4929	arbutus_aac.wir	233	88	0.51	1.14	4929
25	1		12	3	D3B	arbutus_aac.wir	215	270	0.51	1.14	4929	arbutus_aac.wir	233	88	0.51	1.14	4929
25	1		21	1	N	merlin_acsr.wir	214	270	0.39	0.66	3035	merlin_acsr.wir	231	89	0.39	0.66	3035
26	1	RULE 277 Insulat	1	1	SW-1A		0	162	0.00	0.00	0	7no_9_alumoweld.wir	230	89	0.28	0.39	3799
26	1		2	1	SW-1B	7no_9_alumoweld.wir	214	270	0.28	0.39	3787		0	342	0.00	0.00	0
26	1		3	1	SW-C	7no_9_alumoweld.wir	247	180	0.28	0.39	3822		0	342	0.00	0.00	0
26	1		5	1	T-1A		0	162	0.00	0.00	0	narcissus_aac.wir	230	89	0.60	1.68	7251
26	1		5	2	T-2A		0	162	0.00	0.00	0	narcissus_aac.wir	230	89	0.60	1.68	7251
26	1		5	3	T-3A		0	162	0.00	0.00	0	narcissus_aac.wir	230	89	0.60	1.68	7251
26	1		6	1	T1-B	narcissus_aac.wir	213	270	0.60	1.68	7111		0	342	0.00	0.00	0
26	1		6	2	T-2B	narcissus_aac.wir	213	270	0.60	1.68	7111		0	342	0.00	0.00	0
26	1		6	3	T-3B	narcissus_aac.wir	213	270	0.60	1.68	7111		0	342	0.00	0.00	0
26	1		7	1	T-1C	narcissus_aac.wir	247	180	0.60	1.68	7417		0	342	0.00	0.00	0
26	1		7	2	T-2C	narcissus_aac.wir	246	180	0.60	1.68	7417		0	342	0.00	0.00	0
26	1		7	3	T-3C	narcissus_aac.wir	246	180	0.60	1.68	7417		0	342	0.00	0.00	0
26	1		11	1	D1A	arbutus_aac.wir	215	270	0.51	1.14	4929	arbutus_aac.wir	233	91	0.51	1.14	4929
26	1		11	2	D2A	arbutus_aac.wir	215	270	0.51	1.14	4929	arbutus_aac.wir	233	91	0.51	1.14	4929
26	1		11	3	D3A	arbutus_aac.wir	215	270	0.51	1.14	4929	arbutus_aac.wir	233	91	0.51	1.14	4929
26	1		12	1	D1B	arbutus_aac.wir	215	270	0.51	1.14	4929	arbutus_aac.wir	233	88	0.51	1.14	4929
26	1		12	2	D2B	arbutus_aac.wir	215	270	0.51	1.14	4929	arbutus_aac.wir	233	88	0.51	1.14	4929
26	1		12	3	D3B	arbutus_aac.wir	215	270	0.51	1.14	4929	arbutus_aac.wir	233	88	0.51	1.14	4929
26	1		21	1	N	merlin_acsr.wir	214	270	0.39	0.66	3035	merlin_acsr.wir	231	89	0.39	0.66	3035
27	4	Extreme Ice NA+	1	1	SW-1A		0	162	0.00	0.00	0	7no_9_alumoweld.wir	230	89	0.00	0.73	3666
27	4		2	1	SW-1B	7no_9_alumoweld.wir	214	270	0.00	0.73	3652		0	342	0.00	0.00	0

27	4		3	1	SW-C	7no_9_alumoweld.wir	247	180	0.00	0.73	3691			0	342	0.00	0.00	0
27	4		5	1	T-1A		0	162	0.00	0.00	0	narcissus_aac.wir	230	89	0.00	2.31	6740	
27	4		5	2	T-2A		0	162	0.00	0.00	0	narcissus_aac.wir	230	89	0.00	2.31	6740	
27	4		5	3	T-3A		0	162	0.00	0.00	0	narcissus_aac.wir	230	89	0.00	2.31	6740	
27	4		6	1	T1-B	narcissus_aac.wir	213	270	0.00	2.31	6562		0	342	0.00	0.00	0	
27	4		6	2	T-2B	narcissus_aac.wir	213	270	0.00	2.31	6562		0	342	0.00	0.00	0	
27	4		6	3	T-3B	narcissus_aac.wir	213	270	0.00	2.31	6562		0	342	0.00	0.00	0	
27	4		7	1	T-1C	narcissus_aac.wir	247	180	0.00	2.31	6933		0	342	0.00	0.00	0	
27	4		7	2	T-2C	narcissus_aac.wir	246	180	0.00	2.31	6933		0	342	0.00	0.00	0	
27	4		7	3	T-3C	narcissus_aac.wir	246	180	0.00	2.31	6933		0	342	0.00	0.00	0	
27	4		11	1	D1A	arbutus_aac.wir	215	270	0.00	1.70	4611	arbutus_aac.wir	233	91	0.00	1.70	4611	
27	4		11	2	D2A	arbutus_aac.wir	215	270	0.00	1.70	4611	arbutus_aac.wir	233	91	0.00	1.70	4611	
27	4		11	3	D3A	arbutus_aac.wir	215	270	0.00	1.70	4611	arbutus_aac.wir	233	91	0.00	1.70	4611	
27	4		12	1	D1B	arbutus_aac.wir	215	270	0.00	1.70	4611	arbutus_aac.wir	233	88	0.00	1.70	4611	
27	4		12	2	D2B	arbutus_aac.wir	215	270	0.00	1.70	4611	arbutus_aac.wir	233	88	0.00	1.70	4611	
27	4		12	3	D3B	arbutus_aac.wir	215	270	0.00	1.70	4611	arbutus_aac.wir	233	88	0.00	1.70	4611	
27	4		21	1	N	merlin_acsr.wir	214	270	0.00	1.10	2885	merlin_acsr.wir	231	89	0.00	1.10	2885	
28	4	Extreme Ice NA-	1	1	SW-1A		0	162	0.00	0.00	0	7no_9_alumoweld.wir	230	89	0.00	0.73	3666	
28	4		2	1	SW-1B	7no_9_alumoweld.wir	214	270	0.00	0.73	3652		0	342	0.00	0.00	0	
28	4		3	1	SW-C	7no_9_alumoweld.wir	247	180	0.00	0.73	3691		0	342	0.00	0.00	0	
28	4		5	1	T-1A		0	162	0.00	0.00	0	narcissus_aac.wir	230	89	0.00	2.31	6740	
28	4		5	2	T-2A		0	162	0.00	0.00	0	narcissus_aac.wir	230	89	0.00	2.31	6740	
28	4		5	3	T-3A		0	162	0.00	0.00	0	narcissus_aac.wir	230	89	0.00	2.31	6740	
28	4		6	1	T1-B	narcissus_aac.wir	213	270	0.00	2.31	6562		0	342	0.00	0.00	0	
28	4		6	2	T-2B	narcissus_aac.wir	213	270	0.00	2.31	6562		0	342	0.00	0.00	0	
28	4		6	3	T-3B	narcissus_aac.wir	213	270	0.00	2.31	6562		0	342	0.00	0.00	0	
28	4		7	1	T-1C	narcissus_aac.wir	247	180	0.00	2.31	6933		0	342	0.00	0.00	0	
28	4		7	2	T-2C	narcissus_aac.wir	246	180	0.00	2.31	6933		0	342	0.00	0.00	0	
28	4		7	3	T-3C	narcissus_aac.wir	246	180	0.00	2.31	6933		0	342	0.00	0.00	0	
28	4		11	1	D1A	arbutus_aac.wir	215	270	0.00	1.70	4611	arbutus_aac.wir	233	91	0.00	1.70	4611	
28	4		11	2	D2A	arbutus_aac.wir	215	270	0.00	1.70	4611	arbutus_aac.wir	233	91	0.00	1.70	4611	
28	4		11	3	D3A	arbutus_aac.wir	215	270	0.00	1.70	4611	arbutus_aac.wir	233	91	0.00	1.70	4611	
28	4		12	1	D1B	arbutus_aac.wir	215	270	0.00	1.70	4611	arbutus_aac.wir	233	88	0.00	1.70	4611	
28	4		12	2	D2B	arbutus_aac.wir	215	270	0.00	1.70	4611	arbutus_aac.wir	233	88	0.00	1.70	4611	
28	4		12	3	D3B	arbutus_aac.wir	215	270	0.00	1.70	4611	arbutus_aac.wir	233	88	0.00	1.70	4611	
28	4		21	1	N	merlin_acsr.wir	214	270	0.00	1.10	2885	merlin_acsr.wir	231	89	0.00	1.10	2885	
29	5	Uplift	1	1	SW-1A		0	162	0.00	0.00	0	7no_9_alumoweld.wir	230	89	0.00	0.21	3919	
29	5		2	1	SW-1B	7no_9_alumoweld.wir	214	270	0.00	0.21	3921		0	342	0.00	0.00	0	
29	5		3	1	SW-C	7no_9_alumoweld.wir	247	180	0.00	0.21	3928		0	342	0.00	0.00	0	
29	5		5	1	T-1A		0	162	0.00	0.00	0	narcissus_aac.wir	230	89	0.00	1.19	7985	
29	5		5	2	T-2A		0	162	0.00	0.00	0	narcissus_aac.wir	230	89	0.00	1.19	7985	
29	5		5	3	T-3A		0	162	0.00	0.00	0	narcissus_aac.wir	230	89	0.00	1.19	7985	
29	5		6	1	T1-B	narcissus_aac.wir	213	270	0.00	1.19	7913		0	342	0.00	0.00	0	
29	5		6	2	T-2B	narcissus_aac.wir	213	270	0.00	1.19	7913		0	342	0.00	0.00	0	
29	5		6	3	T-3B	narcissus_aac.wir	213	270	0.00	1.19	7913		0	342	0.00	0.00	0	
29	5		7	1	T-1C	narcissus_aac.wir	247	180	0.00	1.19	8088		0	342	0.00	0.00	0	
29	5		7	2	T-2C	narcissus_aac.wir	246	180	0.00	1.19	8088		0	342	0.00	0.00	0	
29	5		7	3	T-3C	narcissus_aac.wir	246	180	0.00	1.19	8088		0	342	0.00	0.00	0	
29	5		11	1	D1A	arbutus_aac.wir	215	270	0.00	0.75	5334	arbutus_aac.wir	233	91	0.00	0.75	5334	
29	5		11	2	D2A	arbutus_aac.wir	215	270	0.00	0.75	5334	arbutus_aac.wir	233	91	0.00	0.75	5334	
29	5		11	3	D3A	arbutus_aac.wir	215	270	0.00	0.75	5334	arbutus_aac.wir	233	91	0.00	0.75	5334	
29	5		12	1	D1B	arbutus_aac.wir	215	270	0.00	0.75	5334	arbutus_aac.wir	233	88	0.00	0.75	5334	
29	5		12	2	D2B	arbutus_aac.wir	215	270	0.00	0.75	5334	arbutus_aac.wir	233	88	0.00	0.75	5334	
29	5		12	3	D3B	arbutus_aac.wir	215	270	0.00	0.75	5334	arbutus_aac.wir	233	88	0.00	0.75	5334	
29	5		21	1	N	merlin_acsr.wir	214	270	0.00	0.37	3132	merlin_acsr.wir	231	89	0.00	0.37	3132	
71	19	CAMBER	1	1	SW-1A		0	162	0.00	0.00	0	7no_9_alumoweld.wir	230	89	0.00	0.21	3221	
71	19		2	1	SW-1B	7no_9_alumoweld.wir	214	270	0.00	0.21	3223		0	342	0.00	0.00	0	
71	19		3	1	SW-C	7no_9_alumoweld.wir	247	180	0.00	0.21	3230		0	342	0.00	0.00	0	
71	19		5	1	T-1A		0	162	0.00	0.00	0	narcissus_aac.wir	230	89	0.00	1.19	4118	
71	19		5	2	T-2A		0	162	0.00	0.00	0	narcissus_aac.wir	230	89	0.00	1.19	4118	
71	19		5	3	T-3A		0	162	0.00	0.00	0	narcissus_aac.wir	230	89	0.00	1.19	4118	
71	19		6	1	T1-B	narcissus_aac.wir	213	270	0.00	1.19	3975		0	342	0.00	0.00	0	
71	19		6	2	T-2B	narcissus_aac.wir	213	270	0.00	1.19	3975		0	342	0.00	0.00	0	
71	19		6	3	T-3B	narcissus_aac.wir	213	270	0.00	1.19	3975		0	342	0.00	0.00	0	
71	19		7	1	T-1C	narcissus_aac.wir	247	180	0.00	1.19	4283		0	342	0.00	0.00	0	

71	19	7	2	T-2C	narcissus_aac.wir	246	180	0.00	1.19	4283		0	342	0.00	0.00	0
71	19	7	3	T-3C	narcissus_aac.wir	246	180	0.00	1.19	4283		0	342	0.00	0.00	0
71	19	11	1	D1A	arbutus_aac.wir	215	270	0.00	0.75	2670	arbutus_aac.wir	233	91	0.00	0.75	2670
71	19	11	2	D2A	arbutus_aac.wir	215	270	0.00	0.75	2670	arbutus_aac.wir	233	91	0.00	0.75	2670
71	19	11	3	D3A	arbutus_aac.wir	215	270	0.00	0.75	2670	arbutus_aac.wir	233	91	0.00	0.75	2670
71	19	12	1	D1B	arbutus_aac.wir	215	270	0.00	0.75	2670	arbutus_aac.wir	233	88	0.00	0.75	2670
71	19	12	2	D2B	arbutus_aac.wir	215	270	0.00	0.75	2670	arbutus_aac.wir	233	88	0.00	0.75	2670
71	19	12	3	D3B	arbutus_aac.wir	215	270	0.00	0.75	2670	arbutus_aac.wir	233	88	0.00	0.75	2670
71	19	21	1	N	merlin_acsr.wir	214	270	0.00	0.37	1706	merlin_acsr.wir	231	89	0.00	0.37	1706

Wire Loads In Structure Coordinate System

Note: Loads in this report include load from counter weights, insulator weight, insulator wind area and jumpers.

LC #	WC Load Case # Description			Set No.	Phase No.	Attach. Joint Labels	----Structure Loads----			--Loads from back span--			-Loads from ahead span-			Warnings	
							Vert.	Trans.	Long.	Vert.	Trans.	Long.	Vert.	Trans.	Long.		
							----- (lbs) -----			----- (lbs) -----			----- (lbs) -----				
1	1	RULE 250B GRADE			1	1	SW-1A	350	-25	6268	0	0	0	350	-25	6268	
1	1				2	1	SW-1B	350	-120	-6248	350	-120	-6248	0	0	0	
1	1				3	1	SW-C	170	-6306	87	170	-6306	87	0	0	0	
1	1				5	1	T-1A	1162	-66	11965	0	0	0	1162	-66	11965	
1	1				5	2	T-2A	1162	-65	11965	0	0	0	1162	-65	11965	
1	1				5	3	T-3A	1162	-65	11965	0	0	0	1162	-65	11965	
1	1				6	1	T1-B	1144	-245	-11731	1144	-245	-11731	0	0	0	
1	1				6	2	T-2B	1144	-244	-11731	1144	-244	-11731	0	0	0	
1	1				6	3	T-3B	1145	-244	-11731	1145	-244	-11731	0	0	0	
1	1				7	1	T-1C	694	-12238	186	694	-12238	186	0	0	0	
1	1				7	2	T-2C	694	-12238	186	694	-12238	186	0	0	0	
1	1				7	3	T-3C	694	-12238	186	694	-12238	186	0	0	0	
1	1				11	1	D1A	1281	-528	-4	639	-202	-8132	642	-327	8128	
1	1				11	2	D2A	1281	-528	-4	639	-202	-8132	642	-327	8128	
1	1				11	3	D3A	1281	-528	-4	639	-202	-8132	641	-327	8128	
1	1				12	1	D1B	1281	-16	1	639	-189	-8132	642	174	8133	
1	1				12	2	D2B	1281	-16	1	639	-189	-8132	641	173	8133	
1	1				12	3	D3B	1281	-16	1	639	-189	-8132	641	173	8133	
1	1				21	1	N	687	-120	1	342	-94	-5007	345	-26	5009	
2	1	RULE 250B GRADE			1	1	SW-1A	350	137	6267	0	0	0	350	137	6267	
2	1				2	1	SW-1B	350	30	-6249	350	30	-6249	0	0	0	
2	1				3	1	SW-C	170	-6306	-86	170	-6306	-86	0	0	0	
2	1				5	1	T-1A	1162	281	11962	0	0	0	1162	281	11962	
2	1				5	2	T-2A	1162	281	11962	0	0	0	1162	281	11962	
2	1				5	3	T-3A	1162	280	11962	0	0	0	1162	280	11962	
2	1				6	1	T1-B	1144	76	-11733	1144	76	-11733	0	0	0	
2	1				6	2	T-2B	1144	76	-11733	1144	76	-11733	0	0	0	
2	1				6	3	T-3B	1145	76	-11733	1145	76	-11733	0	0	0	
2	1				7	1	T-1C	694	-12238	-184	694	-12238	-184	0	0	0	
2	1				7	2	T-2C	694	-12238	-183	694	-12238	-183	0	0	0	
2	1				7	3	T-3C	694	-12238	-183	694	-12238	-183	0	0	0	
2	1				11	1	D1A	1281	43	1	639	73	-8134	642	-29	8134	
2	1				11	2	D2A	1281	43	1	639	73	-8134	642	-29	8134	
2	1				11	3	D3A	1281	43	1	639	73	-8134	641	-29	8134	
2	1				12	1	D1B	1281	556	-13	639	85	-8134	642	471	8121	
2	1				12	2	D2B	1281	556	-13	639	85	-8134	641	471	8121	
2	1				12	3	D3B	1281	556	-13	639	85	-8134	641	471	8121	
2	1				21	1	N	687	321	-2	342	118	-5007	345	203	5004	
3	1	RULE 250B GRADE			1	1	SW-1A	233	-25	6268	0	0	0	233	-25	6268	
3	1				2	1	SW-1B	233	-120	-6248	233	-120	-6248	0	0	0	
3	1				3	1	SW-C	113	-6306	87	113	-6306	87	0	0	0	
3	1				5	1	T-1A	774	-66	11965	0	0	0	774	-66	11965	
3	1				5	2	T-2A	775	-65	11965	0	0	0	775	-65	11965	
3	1				5	3	T-3A	775	-65	11965	0	0	0	775	-65	11965	
3	1				6	1	T1-B	763	-245	-11731	763	-245	-11731	0	0	0	
3	1				6	2	T-2B	763	-244	-11731	763	-244	-11731	0	0	0	

3	1		6	3	T-3B	763	-244	-11731	763	-244	-11731	0	0	0
3	1		7	1	T-1C	463	-12238	186	463	-12238	186	0	0	0
3	1		7	2	T-2C	463	-12238	186	463	-12238	186	0	0	0
3	1		7	3	T-3C	463	-12238	186	463	-12238	186	0	0	0
3	1		11	1	D1A	854	-528	-4	426	-202	-8132	428	-327	8128
3	1		11	2	D2A	854	-528	-4	426	-202	-8132	428	-327	8128
3	1		11	3	D3A	854	-528	-4	426	-202	-8132	428	-327	8128
3	1		12	1	D1B	854	-16	1	426	-189	-8132	428	174	8133
3	1		12	2	D2B	854	-16	1	426	-189	-8132	428	173	8133
3	1		12	3	D3B	854	-16	1	426	-189	-8132	428	173	8133
3	1		21	1	N	458	-120	1	228	-94	-5007	230	-26	5009
4	1	RULE 250B GRADE	1	1	SW-1A	233	137	6267	0	0	0	233	137	6267
4	1		2	1	SW-1B	233	30	-6249	233	30	-6249	0	0	0
4	1		3	1	SW-C	113	-6306	-86	113	-6306	-86	0	0	0
4	1		5	1	T-1A	774	281	11962	0	0	0	774	281	11962
4	1		5	2	T-2A	775	281	11962	0	0	0	775	281	11962
4	1		5	3	T-3A	775	280	11962	0	0	0	775	280	11962
4	1		6	1	T1-B	763	76	-11733	763	76	-11733	0	0	0
4	1		6	2	T-2B	763	76	-11733	763	76	-11733	0	0	0
4	1		6	3	T-3B	763	76	-11733	763	76	-11733	0	0	0
4	1		7	1	T-1C	463	-12238	-184	463	-12238	-184	0	0	0
4	1		7	2	T-2C	463	-12238	-183	463	-12238	-183	0	0	0
4	1		7	3	T-3C	463	-12238	-183	463	-12238	-183	0	0	0
4	1		11	1	D1A	854	43	1	426	73	-8134	428	-29	8134
4	1		11	2	D2A	854	43	1	426	73	-8134	428	-29	8134
4	1		11	3	D3A	854	43	1	426	73	-8134	428	-29	8134
4	1		12	1	D1B	854	556	-13	426	85	-8134	428	471	8121
4	1		12	2	D2B	854	556	-13	426	85	-8134	428	471	8121
4	1		12	3	D3B	854	556	-13	426	85	-8134	428	471	8121
4	1		21	1	N	458	321	-2	228	118	-5007	230	203	5004
5	2	RULE 250C GRADE	1	1	SW-1A	264	-82	3479	0	0	0	264	-82	3479
5	2		2	1	SW-1B	266	-131	-3447	266	-131	-3447	0	0	0
5	2		3	1	SW-C	107	-3526	122	107	-3526	122	0	0	0
5	2		5	1	T-1A	741	-361	6843	0	0	0	741	-361	6843
5	2		5	2	T-2A	741	-352	6843	0	0	0	741	-352	6843
5	2		5	3	T-3A	741	-342	6843	0	0	0	741	-342	6843
5	2		6	1	T1-B	724	-441	-6575	724	-441	-6575	0	0	0
5	2		6	2	T-2B	725	-433	-6575	725	-433	-6575	0	0	0
5	2		6	3	T-3B	725	-424	-6576	725	-424	-6576	0	0	0
5	2		7	1	T-1C	413	-7165	455	413	-7165	455	0	0	0
5	2		7	2	T-2C	413	-7165	445	413	-7165	445	0	0	0
5	2		7	3	T-3C	413	-7165	435	413	-7165	435	0	0	0
5	2		11	1	D1A	829	-748	-5	416	-330	-4713	413	-418	4708
5	2		11	2	D2A	829	-738	-5	416	-325	-4713	413	-413	4708
5	2		11	3	D3A	829	-728	-5	416	-321	-4713	413	-408	4708
5	2		12	1	D1B	829	-451	11	416	-323	-4713	413	-128	4725
5	2		12	2	D2B	829	-441	11	416	-318	-4713	413	-123	4725
5	2		12	3	D3B	829	-431	11	416	-313	-4713	413	-118	4724
5	2		21	1	N	472	-329	3	237	-181	-3015	236	-148	3018
6	2	RULE 250C GRADE	1	1	SW-1A	264	145	3477	0	0	0	264	145	3477
6	2		2	1	SW-1B	266	81	-3448	266	81	-3448	0	0	0
6	2		3	1	SW-C	107	-3526	-122	107	-3526	-122	0	0	0
6	2		5	1	T-1A	741	484	6836	0	0	0	741	484	6836
6	2		5	2	T-2A	741	475	6836	0	0	0	741	475	6836
6	2		5	3	T-3A	741	465	6836	0	0	0	741	465	6836
6	2		6	1	T1-B	724	347	-6581	724	347	-6581	0	0	0
6	2		6	2	T-2B	725	339	-6581	725	339	-6581	0	0	0
6	2		6	3	T-3B	725	329	-6581	725	329	-6581	0	0	0
6	2		7	1	T-1C	413	-7165	-453	413	-7165	-453	0	0	0
6	2		7	2	T-2C	413	-7165	-444	413	-7165	-444	0	0	0
6	2		7	3	T-3C	413	-7165	-433	413	-7165	-433	0	0	0
6	2		11	1	D1A	829	467	4	416	255	-4717	413	212	4722
6	2		11	2	D2A	829	457	4	416	251	-4717	413	207	4722
6	2		11	3	D3A	829	447	4	416	246	-4717	413	202	4722
6	2		12	1	D1B	829	764	-17	416	262	-4717	413	502	4700

6	2		12	2	D2B	829	754	-17	416	258	-4717	413	497	4700
6	2		12	3	D3B	829	744	-17	416	253	-4717	413	491	4700
6	2		21	1	N	472	450	-3	237	195	-3014	236	255	3010
7	3	RULE 250D GRADE	1	1	SW-1A	518	-53	4390	0	0	0	518	-53	4390
7	3		2	1	SW-1B	504	-117	-4316	504	-117	-4316	0	0	0
7	3		3	1	SW-C	333	-4473	99	333	-4473	99	0	0	0
7	3		5	1	T-1A	1213	-50	8895	0	0	0	1213	-50	8895
7	3		5	2	T-2A	1213	-50	8895	0	0	0	1213	-50	8895
7	3		5	3	T-3A	1213	-50	8895	0	0	0	1213	-50	8895
7	3		6	1	T1-B	1176	-183	-8641	1176	-183	-8641	0	0	0
7	3		6	2	T-2B	1176	-182	-8641	1176	-182	-8641	0	0	0
7	3		6	3	T-3B	1176	-182	-8641	1176	-182	-8641	0	0	0
7	3		7	1	T-1C	803	-9167	140	803	-9167	140	0	0	0
7	3		7	2	T-2C	802	-9167	140	802	-9167	140	0	0	0
7	3		7	3	T-3C	802	-9167	140	802	-9167	140	0	0	0
7	3		11	1	D1A	1620	-422	-3	802	-162	-6344	819	-260	6341
7	3		11	2	D2A	1620	-422	-3	802	-162	-6344	819	-260	6341
7	3		11	3	D3A	1620	-422	-3	802	-162	-6344	819	-260	6341
7	3		12	1	D1B	1620	-22	1	802	-152	-6344	819	131	6345
7	3		12	2	D2B	1620	-22	1	802	-152	-6344	819	130	6345
7	3		12	3	D3B	1620	-22	1	802	-152	-6344	819	130	6345
7	3		21	1	N	1085	-122	1	535	-89	-4125	550	-33	4126
8	3	RULE 250D GRADE	1	1	SW-1A	518	132	4389	0	0	0	518	132	4389
8	3		2	1	SW-1B	504	55	-4317	504	55	-4317	0	0	0
8	3		3	1	SW-C	333	-4473	-98	333	-4473	-98	0	0	0
8	3		5	1	T-1A	1213	210	8892	0	0	0	1213	210	8892
8	3		5	2	T-2A	1213	210	8892	0	0	0	1213	210	8892
8	3		5	3	T-3A	1213	210	8892	0	0	0	1213	210	8892
8	3		6	1	T1-B	1176	59	-8643	1176	59	-8643	0	0	0
8	3		6	2	T-2B	1176	59	-8643	1176	59	-8643	0	0	0
8	3		6	3	T-3B	1176	58	-8643	1176	58	-8643	0	0	0
8	3		7	1	T-1C	803	-9167	-138	803	-9167	-138	0	0	0
8	3		7	2	T-2C	802	-9167	-138	802	-9167	-138	0	0	0
8	3		7	3	T-3C	802	-9167	-137	802	-9167	-137	0	0	0
8	3		11	1	D1A	1620	43	1	802	61	-6346	819	-18	6346
8	3		11	2	D2A	1620	43	1	802	61	-6346	819	-18	6346
8	3		11	3	D3A	1620	43	1	802	61	-6346	819	-18	6346
8	3		12	1	D1B	1620	443	-10	802	71	-6346	819	372	6335
8	3		12	2	D2B	1620	443	-10	802	71	-6346	819	372	6335
8	3		12	3	D3B	1620	443	-10	802	71	-6346	819	372	6335
8	3		21	1	N	1085	288	-2	535	108	-4124	550	179	4122
25	1	RULE 277 Insulat	1	1	SW-1A	233	2	3799	0	0	0	233	2	3799
25	1		2	1	SW-1B	233	-57	-3787	233	-57	-3787	0	0	0
25	1		3	1	SW-C	113	-3822	35	113	-3822	35	0	0	0
25	1		5	1	T-1A	774	-4	7251	0	0	0	774	-4	7251
25	1		5	2	T-2A	775	-4	7251	0	0	0	775	-4	7251
25	1		5	3	T-3A	775	-4	7251	0	0	0	775	-4	7251
25	1		6	1	T1-B	763	-115	-7110	763	-115	-7110	0	0	0
25	1		6	2	T-2B	763	-115	-7110	763	-115	-7110	0	0	0
25	1		6	3	T-3B	763	-115	-7110	763	-115	-7110	0	0	0
25	1		7	1	T-1C	463	-7417	75	463	-7417	75	0	0	0
25	1		7	2	T-2C	463	-7417	75	463	-7417	75	0	0	0
25	1		7	3	T-3C	463	-7417	75	463	-7417	75	0	0	0
25	1		11	1	D1A	854	-261	-2	426	-94	-4928	428	-167	4927
25	1		11	2	D2A	854	-261	-2	426	-94	-4928	428	-167	4927
25	1		11	3	D3A	854	-261	-2	426	-94	-4928	428	-167	4927
25	1		12	1	D1B	854	49	-1	426	-86	-4929	428	136	4928
25	1		12	2	D2B	854	49	-1	426	-86	-4929	428	136	4928
25	1		12	3	D3B	854	49	-1	426	-86	-4929	428	136	4928
25	1		21	1	N	458	-27	0	228	-35	-3035	230	8	3035
26	1	RULE 277 Insulat	1	1	SW-1A	233	67	3798	0	0	0	233	67	3798
26	1		2	1	SW-1B	233	3	-3787	233	3	-3787	0	0	0
26	1		3	1	SW-C	113	-3822	-34	113	-3822	-34	0	0	0
26	1		5	1	T-1A	774	134	7250	0	0	0	774	134	7250
26	1		5	2	T-2A	775	134	7250	0	0	0	775	134	7250

26	1		5	3	T-3A	775	134	7250	0	0	0	775	134	7250
26	1		6	1	T1-B	763	13	-7111	763	13	-7111	0	0	0
26	1		6	2	T-2B	763	13	-7111	763	13	-7111	0	0	0
26	1		6	3	T-3B	763	13	-7111	763	13	-7111	0	0	0
26	1		7	1	T-1C	463	-7417	-73	463	-7417	-73	0	0	0
26	1		7	2	T-2C	463	-7417	-73	463	-7417	-73	0	0	0
26	1		7	3	T-3C	463	-7417	-73	463	-7417	-73	0	0	0
26	1		11	1	D1A	854	-33	-0	426	16	-4929	428	-48	4929
26	1		11	2	D2A	854	-33	-0	426	16	-4929	428	-48	4929
26	1		11	3	D3A	854	-33	-0	426	16	-4929	428	-48	4929
26	1		12	1	D1B	854	278	-6	426	23	-4929	428	255	4923
26	1		12	2	D2B	854	278	-6	426	23	-4929	428	255	4923
26	1		12	3	D3B	854	278	-6	426	23	-4929	428	255	4923
26	1		21	1	N	458	149	-1	228	50	-3035	230	99	3033
27	4	Extreme Ice NA+	1	1	SW-1A	338	33	3666	0	0	0	338	33	3666
27	4		2	1	SW-1B	336	-26	-3652	336	-26	-3652	0	0	0
27	4		3	1	SW-C	175	-3691	0	175	-3691	0	0	0	0
27	4		5	1	T-1A	863	61	6739	0	0	0	863	61	6739
27	4		5	2	T-2A	863	61	6739	0	0	0	863	61	6739
27	4		5	3	T-3A	864	61	6739	0	0	0	864	61	6739
27	4		6	1	T1-B	843	-47	-6562	843	-47	-6562	0	0	0
27	4		6	2	T-2B	843	-47	-6562	843	-47	-6562	0	0	0
27	4		6	3	T-3B	843	-47	-6562	843	-47	-6562	0	0	0
27	4		7	1	T-1C	547	-6933	1	547	-6933	1	0	0	0
27	4		7	2	T-2C	546	-6933	1	546	-6933	1	0	0	0
27	4		7	3	T-3C	546	-6933	1	546	-6933	1	0	0	0
27	4		11	1	D1A	1028	-137	-1	511	-37	-4610	517	-101	4609
27	4		11	2	D2A	1028	-137	-1	511	-37	-4610	517	-101	4609
27	4		11	3	D3A	1028	-137	-1	511	-37	-4610	517	-101	4609
27	4		12	1	D1B	1028	153	-4	511	-29	-4610	517	183	4607
27	4		12	2	D2B	1028	153	-4	511	-29	-4610	517	183	4607
27	4		12	3	D3B	1028	153	-4	511	-29	-4610	517	183	4607
27	4		21	1	N	620	58	-0	307	7	-2885	313	51	2885
28	4	Extreme Ice NA-	1	1	SW-1A	338	33	3666	0	0	0	338	33	3666
28	4		2	1	SW-1B	336	-26	-3652	336	-26	-3652	0	0	0
28	4		3	1	SW-C	175	-3691	0	175	-3691	0	0	0	0
28	4		5	1	T-1A	863	61	6739	0	0	0	863	61	6739
28	4		5	2	T-2A	863	61	6739	0	0	0	863	61	6739
28	4		5	3	T-3A	864	61	6739	0	0	0	864	61	6739
28	4		6	1	T1-B	843	-47	-6562	843	-47	-6562	0	0	0
28	4		6	2	T-2B	843	-47	-6562	843	-47	-6562	0	0	0
28	4		6	3	T-3B	843	-47	-6562	843	-47	-6562	0	0	0
28	4		7	1	T-1C	547	-6933	1	547	-6933	1	0	0	0
28	4		7	2	T-2C	546	-6933	1	546	-6933	1	0	0	0
28	4		7	3	T-3C	546	-6933	1	546	-6933	1	0	0	0
28	4		11	1	D1A	1028	-137	-1	511	-37	-4610	517	-101	4609
28	4		11	2	D2A	1028	-137	-1	511	-37	-4610	517	-101	4609
28	4		11	3	D3A	1028	-137	-1	511	-37	-4610	517	-101	4609
28	4		12	1	D1B	1028	153	-4	511	-29	-4610	517	183	4607
28	4		12	2	D2B	1028	153	-4	511	-29	-4610	517	183	4607
28	4		12	3	D3B	1028	153	-4	511	-29	-4610	517	183	4607
28	4		21	1	N	620	58	-0	307	7	-2885	313	51	2885
29	5	Uplift	1	1	SW-1A	294	35	3919	0	0	0	294	35	3919
29	5		2	1	SW-1B	298	-28	-3921	298	-28	-3921	0	0	0
29	5		3	1	SW-C	116	-3928	0	116	-3928	0	0	0	0
29	5		5	1	T-1A	819	72	7985	0	0	0	819	72	7985
29	5		5	2	T-2A	820	72	7985	0	0	0	820	72	7985
29	5		5	3	T-3A	820	72	7985	0	0	0	820	72	7985
29	5		6	1	T1-B	818	-57	-7913	818	-57	-7913	0	0	0
29	5		6	2	T-2B	819	-57	-7913	819	-57	-7913	0	0	0
29	5		6	3	T-3B	819	-57	-7913	819	-57	-7913	0	0	0
29	5		7	1	T-1C	430	-8088	1	430	-8088	1	0	0	0
29	5		7	2	T-2C	430	-8088	1	430	-8088	1	0	0	0
29	5		7	3	T-3C	430	-8088	1	430	-8088	1	0	0	0
29	5		11	1	D1A	914	-159	-1	459	-42	-5334	455	-117	5333

29	5		11	2	D2A	914	-159	-1	459	-42	-5334	455	-117	5333
29	5		11	3	D3A	914	-159	-1	459	-42	-5334	455	-117	5333
29	5		12	1	D1B	914	177	-4	459	-34	-5334	455	211	5330
29	5		12	2	D2B	914	177	-4	459	-34	-5334	455	211	5330
29	5		12	3	D3B	914	177	-4	459	-34	-5334	455	211	5330
29	5		21	1	N	487	63	-0	244	7	-3132	243	55	3132
71	19	CAMBER	1	1	SW-1A	247	29	3221	0	0	0	247	29	3221
71	19		2	1	SW-1B	251	-23	-3223	251	-23	-3223	0	0	0
71	19		3	1	SW-C	101	-3230	0	101	-3230	0	0	0	0
71	19		5	1	T-1A	554	37	4118	0	0	0	554	37	4118
71	19		5	2	T-2A	554	37	4118	0	0	0	554	37	4118
71	19		5	3	T-3A	554	37	4118	0	0	0	554	37	4118
71	19		6	1	T1-B	541	-28	-3975	541	-28	-3975	0	0	0
71	19		6	2	T-2B	541	-28	-3975	541	-28	-3975	0	0	0
71	19		6	3	T-3B	541	-29	-3975	541	-29	-3975	0	0	0
71	19		7	1	T-1C	359	-4283	0	359	-4283	0	0	0	0
71	19		7	2	T-2C	359	-4283	1	359	-4283	1	0	0	0
71	19		7	3	T-3C	359	-4283	1	359	-4283	1	0	0	0
71	19		11	1	D1A	547	-80	-1	273	-21	-2670	274	-58	2669
71	19		11	2	D2A	547	-80	-1	273	-21	-2670	274	-58	2669
71	19		11	3	D3A	547	-80	-1	273	-21	-2670	274	-58	2669
71	19		12	1	D1B	547	89	-2	273	-17	-2670	274	106	2668
71	19		12	2	D2B	547	89	-2	273	-17	-2670	274	106	2668
71	19		12	3	D3B	547	89	-2	273	-17	-2670	274	106	2668
71	19		21	1	N	303	34	-0	151	4	-1706	152	30	1706

Wire Load Induced Ground Line Moments For Single Pole Centered At Structure Origin

Warning: Results below are not intended for foundation design ??
Note: Moments below computed assuming a single self supported pole at structure origin and are incorrect for guyed structures and multi pole structures. ??
Note: Approximate values below do not include nonlinear (P-delta) effects or wind on pole. Moment would be larger if these effects were included. ??

LC #	WC #	Load Case Description	Vert. Load (kips)	Trans. Shear (kips)	Long. Shear (kips)	Resultant Shear (kips)	Trans. Moment (ft-k)	Long. Moment (ft-k)	Resultant Moment (ft-k)	
1	1	RULE 250B GRADE	18.242	-45.846	1.362	45.866	-2944.521	-76.446	2945.513	
2	1	RULE 250B GRADE	18.242	-39.663	0.030	39.663	-2625.272	9.117	2625.288	
3	1	RULE 250B GRADE	12.161	-45.846	1.362	45.866	-2942.995	-80.201	2944.087	
4	1	RULE 250B GRADE	12.161	-39.663	0.030	39.663	-2623.746	5.361	2623.751	
5	2	RULE 250C GRADE	11.718	-31.454	2.315	31.539	-1960.102	-140.521	1965.133	
6	2	RULE 250C GRADE	11.718	-18.272	-0.701	18.286	-1274.779	51.176	1275.806	
7	3	RULE 250D GRADE	21.737	-34.292	1.350	34.319	-2199.205	-73.967	2200.448	
8	3	RULE 250D GRADE	21.737	-29.234	0.279	29.236	-1937.601	-4.191	1937.606	
25	1	RULE 277 Insulat	12.161	-27.148	0.688	27.157	-1751.943	-36.833	1752.330	
26	1	RULE 277 Insulat	12.161	-24.675	0.155	24.675	-1624.244	-2.608	1624.246	
27	4	Extreme Ice NA+	14.394	-24.337	0.536	24.343	-1588.145	-25.500	1588.349	
28	4	Extreme Ice NA-	14.394	-24.337	0.536	24.343	-1588.145	-25.500	1588.349	
29	5	Uplift	12.884	-28.023	0.200	28.024	-1821.864	-4.871	1821.870	
30	2	RULE 261A	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Global wind towards 30 (deg) for max usage.
71	19	CAMBER	8.546	-15.988	0.420	15.993	-1056.166	-21.996	1056.395	

Basic factored design wind pressure on structure

LC #	WC #	Load Case Description	Trans. Wind Press. (psf)	Long. Wind Press. (psf)	Notes
1	1	RULE 250B GRADE	0.0	10.0	
2	1	RULE 250B GRADE	0.0	-10.0	
3	1	RULE 250B GRADE	0.0	10.0	
4	1	RULE 250B GRADE	0.0	-10.0	

5	2	RULE 250C GRADE	0.0	36.9
6	2	RULE 250C GRADE	0.0	-36.9
7	3	RULE 250D GRADE	0.0	4.1
8	3	RULE 250D GRADE	0.0	-4.1
25	1	RULE 277 Insulat	0.0	4.0
26	1	RULE 277 Insulat	0.0	-4.0
27	4	Extreme Ice NA+	0.0	0.0
28	4	Extreme Ice NA-	0.0	-0.0
29	5	Uplift	0.0	0.0
30	2	RULE 261A	7.9	-36.0
71	19	CAMBER	0.0	0.0

