

	WNC: Dead weight without content.	
	W: Operating weight, i.e., WNC + gas liquid mixture.	
	WW: Hydrostatic testing weight, i.e., WNC + water.	
	P1: 1,250 psig, design pressure.	
	P2: 900 psig, operating pressure.	
	HP: 1,975 psig, Max. hydrostatic testing pressure.	
	T1: 120 °F, highest design temperature.	
	T2: -20 °F, lowest design temperature.	
	T3: 63 °F, operating temperature.	
	WIN1: ASD, wind load in Z direction, 164 MPH.	
	WIN2: ASD, wind load in X direction, 164 MPH.	
	U1: ASD, {±0.03, 0, 0} g, uniform g load vector in X direction.	
	U2: ASD, {0, ±0.02, 0} g, uniform g load vector in Y direction.	
	U3: ASD, {0, 0, ±0.03} g, uniform g load vector in Z direction.	
	SUS: Sustained condition.	
	EXP: Thermal expansion condition.	
	OPE: Operating condition.	
	OCC: Occasional loading condition.	
	1 (SUS) WNC	
	2 (SUS) W	
	3 (SUS) WW	
	4 (SUS) W+P1	
	5 (SUS) W+P2	
	6 (SUS) WW+P1	
	7 (SUS) WW+P2	
	8 (SUS) WW+HP	
	9 (OPE) WW+T1+P1	
	10 (OPE) WW+T2+P1	
	11 (OPE) W+T1+P1	
	12 (OPE) W+T2+P1	
	13 (OPE) W+T3+P2	
	14 (OCC) WNC+WIN1	
	15 (OCC) WNC-WIN1	
	16 (OCC) WNC+WIN2	
	17 (OCC) WNC-WIN2	
	18 (OCC) 0.6WNC+WIN1	
	19 (OCC) 0.6WNC-WIN1	
	20 (OCC) 0.6WNC+WIN2	
	21 (OCC) 0.6WNC-WIN2	
	22 (OCC) WNC+U1+U2	
	23 (OCC) WNC-U1+U2	
	24 (OCC) WNC+U2+U3	
	25 (OCC) WNC+U2-U3	
	26 (OCC) 0.6WNC+U1-U2	
	27 (OCC) 0.6WNC-U1-U2	
	28 (OCC) 0.6WNC-U2+U3	
	29 (OCC) 0.6WNC-U2-U3	
	30 (OCC) WNC+U1+U2+0.3U3	
	31 (OCC) WNC+U1+U2-0.3U3	
	32 (OCC) WNC-U1+U2+0.3U3	
	33 (OCC) WNC-U1+U2-0.3U3	
	34 (OCC) WNC+0.3U1+U2+U3	

35 (OCC) WNC-0.3U1+U2+U3	
36 (OCC) WNC+0.3U1+U2-U3	
37 (OCC) WNC-0.3U1+U2-U3	
38 (OCC) 0.6WNC+U1-U2+0.3U3	
39 (OCC) 0.6WNC+U1-U2-0.3U3	
40 (OCC) 0.6WNC-U1-U2+0.3U3	
41 (OCC) 0.6WNC-U1-U2-0.3U3	
42 (OCC) 0.6WNC+0.3U1-U2+U3	
43 (OCC) 0.6WNC-0.3U1-U2+U3	
44 (OCC) 0.6WNC+0.3U1-U2-U3	
45 (OCC) 0.6WNC-0.3U1-U2-U3	
46 (OPE) W+T3+P2+WIN1	
47 (OPE) W+T3+P2-WIN1	
48 (OPE) W+T3+P2+WIN2	
49 (OPE) W+T3+P2-WIN2	
50 (OPE) 0.6W+T3+P2+WIN1	
51 (OPE) 0.6W+T3+P2-WIN1	
52 (OPE) 0.6W+T3+P2+WIN2	
53 (OPE) 0.6W+T3+P2-WIN2	
54 (OPE) W+T3+P2+U1+U2	
55 (OPE) W+T3+P2-U1+U2	
56 (OPE) W+T3+P2+U2+U3	
57 (OPE) W+T3+P2+U2-U3	
58 (OPE) 0.6W+T3+P2+U1-U2	
59 (OPE) 0.6W+T3+P2-U1-U2	
60 (OPE) 0.6W+T3+P2-U2+U3	
61 (OPE) 0.6W+T3+P2-U2-U3	
62 (OPE) W+T3+P2+U1+U2+0.3U3	
63 (OPE) W+T3+P2+U1+U2-0.3U3	
64 (OPE) W+T3+P2-U1+U2+0.3U3	
65 (OPE) W+T3+P2-U1+U2-0.3U3	
66 (OPE) W+T3+P2+0.3U1+U2+U3	
67 (OPE) W+T3+P2-0.3U1+U2+U3	
68 (OPE) W+T3+P2+0.3U1+U2-U3	
69 (OPE) W+T3+P2-0.3U1+U2-U3	
70 (OPE) 0.6W+T3+P2+U1-U2+0.3U3	
71 (OPE) 0.6W+T3+P2+U1-U2-0.3U3	
72 (OPE) 0.6W+T3+P2-U1-U2+0.3U3	
73 (OPE) 0.6W+T3+P2-U1-U2-0.3U3	
74 (OPE) 0.6W+T3+P2+0.3U1-U2+U3	
75 (OPE) 0.6W+T3+P2-0.3U1-U2+U3	
76 (OPE) 0.6W+T3+P2+0.3U1-U2-U3	
77 (OPE) 0.6W+T3+P2-0.3U1-U2-U3	
78 (OCC) W+P2+WIN1	
79 (OCC) W+P2-WIN1	
80 (OCC) W+P2+WIN2	
81 (OCC) W+P2-WIN2	
82 (OCC) 0.6W+P2+WIN1	
83 (OCC) 0.6W+P2-WIN1	
84 (OCC) 0.6W+P2+WIN2	
85 (OCC) 0.6W+P2-WIN2	
86 (OCC) W+P2+U1+U2	

87 (OCC) W+P2-U1+U2	
88 (OCC) W+P2+U2+U3	
89 (OCC) W+P2+U2-U3	
90 (OCC) 0.6W+P2+U1-U2	
91 (OCC) 0.6W+P2-U1-U2	
92 (OCC) 0.6W+P2-U2+U3	
93 (OCC) 0.6W+P2-U2-U3	
94 (OCC) W+P2+U1+U2+0.3U3	
95 (OCC) W+P2+U1+U2-0.3U3	
96 (OCC) W+P2-U1+U2+0.3U3	
97 (OCC) W+P2-U1+U2-0.3U3	
98 (OCC) W+P2+0.3U1+U2+U3	
99 (OCC) W+P2-0.3U1+U2+U3	
100 (OCC) W+P2+0.3U1+U2-U3	
101 (OCC) W+P2-0.3U1+U2-U3	
102 (OCC) 0.6W+P2+U1-U2+0.3U3	
103 (OCC) 0.6W+P2+U1-U2-0.3U3	
104 (OCC) 0.6W+P2-U1-U2+0.3U3	
105 (OCC) 0.6W+P2-U1-U2-0.3U3	
106 (OCC) 0.6W+P2+0.3U1-U2+U3	
107 (OCC) 0.6W+P2-0.3U1-U2+U3	
108 (OCC) 0.6W+P2+0.3U1-U2-U3	
109 (OCC) 0.6W+P2-0.3U1-U2-U3	
110 (OCC) WW+HP+WIN1	
111 (OCC) WW+HP-WIN1	
112 (OCC) WW+HP+WIN2	
113 (OCC) WW+HP-WIN2	
114 (OCC) L114=L46-L13	
115 (OCC) L115=L48-L13	
116 (OCC) L116=L62-L13	
117 (OCC) L117=L63-L13	
118 (OCC) L118=L64-L13	
119 (OCC) L119=L65-L13	
120 (OCC) L120=L66-L13	
121 (OCC) L121=L67-L13	
122 (OCC) L122=L68-L13	
123 (OCC) L123=L69-L13	
124 (EXP) L124=L11-L4	
125 (EXP) L125=L12-L4	
126 (EXP) L126=L13-L5	
127 (EXP) L127=L9-L10	
128 (EXP) L128=L11-L12	