

**CDF
CMEX
UPGRADE**

**STRUCTURAL
AND
MECHANICAL
DESIGN**

CASE 5

**7 Chamber Frame Analysis
without Super-Structure**

F R A M E

S T A T I C A N A L Y S I S

S T R U C T U R A L D Y N A M I C S R E S E A R C H C O R P O R A T I O N

C D F C M E X U P G R A D E : F R A M E A N A L Y S I S

*** SPACE FRAME ANALYSIS ***

STRAIGHT BEAMS

BEAM	LENGTH	FORE END JOINT	AFT END JOINT	MATERIAL CODE	SECTION CODE	ROTATION ANGLE	TEMP.
1	9.27	32	33	1	1	41.5	
2	4.50	37	38	1	1	41.5	
3	48.73	38	33	3	2		
4	5.00	38	105	1	1	41.5	
5	3.88	33	106	1	1	41.5	
6	13.00	106	104	1	1	41.5	
7	9.00	105	103	1	1	41.5	
8	3.14	104	36		RIGID		
9	6.01	103	40		RIGID		
10	11.63	106	150	3	3		
11	14.69	150	154	1	4		
12	11.63	104	148	3	3		
13	14.69	148	152	1	4		
14	11.63	105	149	3	3		
15	14.69	149	153	1	4		
16	11.63	103	147	3	3		
17	14.69	147	151	1	4		
18	48.73	40	36	3	2		
19	9.37	36	18	1	1	41.5	
20	4.60	40	23	1	1	41.5	
21	9.26	18	19	1	1	41.5	
22	4.50	23	24	1	1	41.5	
23	48.73	24	19	3	2		
24	3.88	19	102	1	1	41.5	
25	5.00	24	101	1	1	41.5	
26	10.12	293	100	1	1	41.5	
27	7.24	294	99	1	1	41.5	
28	3.14	100	22		RIGID		
29	6.01	99	26		RIGID		
30	11.62	102	142	3	3		
31	14.69	142	146	1	4		
32	11.62	100	140	3	3		
33	14.69	140	144	1	4		
34	11.62	101	141	3	3		
35	14.69	141	145	1	4		
36	11.62	99	139	3	3		
37	14.69	139	143	1	4		
38	48.73	26	22	3	2		
39	9.37	22	1	1	1	41.5	
40	4.60	26	7	1	1	41.5	
41	9.27	1	2	1	1	41.5	

STATIC ANALYSIS
CDF CMEX UPGRADE: FRAME ANALYSIS

STRAIGHT BEAMS

BEAM	LENGTH	FORE END JOINT	AFT END JOINT	MATERIAL CODE	SECTION CODE	ROTATION ANGLE	TEMP.
42	4.50	7	8	1	1	41.5	
43	48.73	8	2	3	2		
44	3.88	2	98	1	1	41.5	
45	5.00	8	97	1	1	41.5	
46	10.12	291	96	1	1	41.5	
47	7.24	292	95	1	1	41.5	
48	3.14	96	5		RIGID		
49	6.02	95	10		RIGID		
50	11.63	98	134	3	3		
51	14.69	134	138	1	4		
52	11.63	96	132	3	3		
53	14.69	132	136	1	4		
54	11.63	97	133	3	3		
55	14.69	133	137	1	4		
56	11.63	95	131	3	3		
57	14.69	131	135	1	4		
58	48.73	10	5	3	2		
59	9.27	5	6	1	1	41.5	
60	4.50	10	11	1	1	41.5	
61	9.37	6	46	1	1	41.5	
62	4.60	11	51	1	1	41.5	
63	48.73	51	46	3	2		
64	3.87	46	94	1	1	41.5	
65	5.00	51	93	1	1	41.5	
66	10.12	289	92	1	1	41.5	
67	7.24	290	91	1	1	41.5	
68	3.14	92	49		RIGID		
69	6.02	91	53		RIGID		
70	11.63	94	126	3	3		
71	14.69	126	130	1	4		
72	11.63	92	124	3	3		
73	14.69	124	128	1	4		
74	11.63	93	125	3	3		
75	14.69	125	129	1	4		
76	11.63	91	123	3	3		
77	14.69	123	127	1	4		
78	48.73	53	49	3	2		
79	9.27	49	50	1	1	41.5	
80	4.50	53	54	1	1	41.5	
81	9.37	50	60	1	1	41.5	
82	4.60	54	65	1	1	41.5	
83	48.73	65	60	3	2		
84	3.88	60	90	1	1	41.5	
85	5.00	65	89	1	1	41.5	
86	10.12	295	88	1	1	41.5	
87	7.24	296	87	1	1	41.5	

STATIC ANALYSIS
CDF CMEX UPGRADE: FRAME ANALYSIS

STRAIGHT BEAMS

BEAM	LENGTH	FORE END JOINT	AFT END JOINT	MATERIAL CODE	SECTION CODE	ROTATION ANGLE	TEMP.
88	3.14	88	63		RIGID		
89	6.01	87	67		RIGID		
90	11.63	90	118	3	3		
91	14.69	118	122	1	4		
92	11.63	88	116	3	3		
93	14.69	116	120	1	4		
94	11.63	89	117	3	3		
95	14.69	117	121	1	4		
96	11.63	87	115	3	3		
97	14.69	115	119	1	4		
98	48.73	67	63	3	2		
99	9.26	63	64	1	1	41.5	
100	4.50	67	68	1	1	41.5	
101	9.37	64	74	1	1	41.5	
102	4.60	68	79	1	1	41.5	
103	48.73	79	74	3	2		
104	3.87	74	86	1	1	41.5	
105	5.00	79	85	1	1	41.5	
106	10.11	288	84	1	1	41.5	
107	7.24	287	83	1	1	41.5	
108	3.15	84	77		RIGID		
109	6.01	83	81		RIGID		
110	11.62	86	110	3	3		
111	14.69	110	114	1	4		
112	11.62	84	108	3	3		
113	14.69	108	112	1	4		
114	11.62	85	109	3	3		
115	14.69	109	113	1	4		
116	11.63	83	107	3	3		
117	14.69	107	111	1	4		
118	48.73	81	77	3	2		
119	9.27	77	78	1	1	41.5	
120	4.50	81	82	1	1	41.5	
121	42.02	111	172	2	5		
122	42.02	112	172	2	5		
123	41.99	113	171	2	5		
124	41.99	114	171	2	5		
125	42.02	119	170	2	5		
126	42.02	120	170	2	5		
127	42.00	121	169	2	5		
128	42.00	122	169	2	5		
129	42.01	127	168	2	5	9.0	
130	42.01	128	168	2	5		
131	41.99	129	167	2	5		
132	41.99	130	167	2	5		
133	42.01	135	166	2	5		

STATIC ANALYSIS
CDF CMEX UPGRADE: FRAME ANALYSIS

STRAIGHT BEAMS

BEAM	LENGTH	FORE END JOINT	AFT END JOINT	MATERIAL CODE	SECTION CODE	ROTATION ANGLE	TEMP.
134	42.01	136	166	2	5		
135	41.99	137	165	2	5		
136	41.99	138	165	2	5		
137	42.01	143	164	2	5		
138	42.01	144	164	2	5		
139	41.99	145	163	2	5		
140	41.99	146	163	2	5		
141	42.01	151	162	2	5		
142	42.01	152	162	2	5		
143	41.99	153	161	2	5		
144	41.99	154	161	2	5		
145	8.50	160	161	2	5		
146	8.50	160	162	2	5		
147	8.50	159	163	2	5		
148	8.50	159	164	2	5		
149	8.50	158	165	2	5		
150	8.50	158	166	2	5		
151	8.50	157	167	2	5		
152	8.50	157	168	2	5		
153	8.50	156	169	2	5		
154	8.50	156	170	2	5		
155	8.50	155	171	2	5		
156	8.50	155	172	2	5		
157	4.60	82	173	1	1	41.5	
158	9.36	78	174	1	1	41.5	
159	48.73	173	174	3	2		
160	7.24	285	181	1	1	41.5	
161	10.11	286	182	1	1	41.5	
162	6.01	181	175		RIGID		
163	3.15	182	176		RIGID		
164	4.50	175	177	1	1	41.5	
165	9.27	176	178	1	1	41.5	
166	48.73	175	176	3	2		
167	11.63	179	183	3	3		
168	11.63	180	184	3	3		
169	11.63	181	185	3	3		
170	11.62	182	186	3	3		
171	14.69	183	187	1	4		
172	14.69	185	189	1	4		
173	14.72	186	190	1	4		
174	14.70	184	188	1	4		
175	41.99	187	191	2	5		
176	41.99	188	191	2	5		
177	42.02	189	192	2	5		
178	42.05	190	192	2	5		
179	8.50	192	193	2	5		

STATIC ANALYSIS
CDF CMEX UPGRADE: FRAME ANALYSIS

STRAIGHT BEAMS

BEAM	LENGTH	FORE END JOINT	AFT END JOINT	MATERIAL CODE	SECTION CODE	ROTATION ANGLE	TEMP.
180	8.50	191	193	2	5		
233	5.00	173	179	1	1	41.5	
234	3.88	174	180	1	1	41.5	
260	48.58	248	249	3	8	90.0	
261	21.50	250	248	3	7		
262	16.77	251	249	3	7		
263	7.95	250	290	1	1		
264	8.03	251	289	1	1		
265	34.98	252	250	3	7		
266	39.70	253	251	3	7		
267	48.58	252	253	3	8	90.0	
268	13.22	254	252	3	7		
269	17.95	255	253	3	7		
270	7.95	254	292	1	1		
271	8.03	255	291	1	1		
272	43.25	256	254	3	7		
273	38.52	257	255	3	7		
274	48.58	256	257	3	8	90.0	
275	3.30	258	256	3	7		
276	17.17	259	257	3	7		
277	20.43	258	294	1	1		
278	22.95	259	293	1	1		
279	65.42	258	105	3	8		
280	77.39	259	106	3	8		
281	76.70	260	258	3	7		
282	62.83	261	259	3	7		
295	39.27	248	265	1	9	45.0	
296	39.27	249	265	1	9	45.0	
297	39.27	252	265	1	9	45.0	
298	39.27	253	265	1	9	45.0	
299	39.27	252	266	1	9	45.0	
300	39.27	253	266	1	9	45.0	
301	39.27	256	266	1	9	45.0	
302	39.27	257	266	1	9	45.0	
303	48.42	256	267	1	9	45.0	
304	48.42	257	267	1	9	45.0	
305	48.42	260	267	1	9	45.0	
306	48.42	261	267	1	9	45.0	
339	1.76	179	285	1	1	41.5	
340	2.88	180	286	1	1	41.5	
341	1.76	85	287	1	1	41.5	
342	2.89	86	288	1	1	41.5	
349	2.88	94	289	1	1	41.5	
350	1.76	93	290	1	1	41.5	
351	2.88	98	291	1	1	41.5	
352	1.76	97	292	1	1	41.5	

STATIC ANALYSIS
CDF CMEX UPGRADE: FRAME ANALYSIS

STRAIGHT BEAMS

BEAM	LENGTH	FORE END JOINT	AFT END JOINT	MATERIAL CODE	SECTION CODE	ROTATION ANGLE	TEMP.
353	2.88	102	293	1	1	41.5	
354	1.76	101	294	1	1	41.5	
355	2.88	90	295	1	1	41.5	
356	1.76	89	296	1	1	41.5	

BEAM	RIGID END	BEAM TYPE	END OFFSET	OFFSET	OFFSET
1	AFT	3	3.500	0.000	0.000
2	AFT	3	3.500	0.000	0.000
3	FORE	3	3.000	0.000	0.000
3	AFT	3	3.000	0.000	0.000
4	FORE	3	3.500	0.000	0.000
4	AFT	3	3.000	0.000	0.000
5	FORE	3	3.500	0.000	0.000
5	AFT	3	3.000	0.000	0.000
6	FORE	3	3.000	0.000	0.000
6	AFT	3	3.000	0.000	0.000
7	FORE	3	3.000	0.000	0.000
7	AFT	3	3.000	0.000	0.000
10	FORE	3	3.000	0.000	0.000
12	FORE	3	3.000	0.000	0.000
14	FORE	3	3.000	0.000	0.000
16	FORE	3	3.000	0.000	0.000
18	FORE	3	3.000	0.000	0.000
18	AFT	3	3.000	0.000	0.000
19	FORE	3	3.500	0.000	0.000
20	FORE	3	3.500	0.000	0.000
21	AFT	3	3.500	0.000	0.000
22	AFT	3	3.500	0.000	0.000
23	FORE	3	3.000	0.000	0.000
23	AFT	3	3.000	0.000	0.000
24	FORE	3	3.500	0.000	0.000
24	AFT	3	3.000	0.000	0.000
25	FORE	3	3.500	0.000	0.000
25	AFT	3	3.000	0.000	0.000
26	AFT	3	3.000	0.000	0.000
27	AFT	3	3.000	0.000	0.000
30	FORE	3	3.000	0.000	0.000
32	FORE	3	3.000	0.000	0.000
34	FORE	3	3.000	0.000	0.000
36	FORE	3	3.000	0.000	0.000
38	FORE	3	3.000	0.000	0.000
38	AFT	3	3.000	0.000	0.000
39	FORE	3	3.500	0.000	0.000

STATIC ANALYSIS
CDF CMEX UPGRADE: FRAME ANALYSIS

BEAM	RIGID	BEAM	END	OFFSET		
	END	TYPE		OFFSET		
40	FORE	3	3.500	0.000	0.000	
41	AFT	3	3.500	0.000	0.000	
42	AFT	3	3.500	0.000	0.000	
43	FORE	3	3.000	0.000	0.000	
43	AFT	3	3.000	0.000	0.000	
44	FORE	3	3.500	0.000	0.000	
44	AFT	3	3.000	0.000	0.000	
45	FORE	3	3.500	0.000	0.000	
45	AFT	3	3.000	0.000	0.000	
46	AFT	3	3.000	0.000	0.000	
47	AFT	3	3.000	0.000	0.000	
50	FORE	3	3.000	0.000	0.000	
52	FORE	3	3.000	0.000	0.000	
54	FORE	3	3.000	0.000	0.000	
56	FORE	3	3.000	0.000	0.000	
58	FORE	3	3.000	0.000	0.000	
58	AFT	3	3.000	0.000	0.000	
59	FORE	3	3.500	0.000	0.000	
60	FORE	3	3.500	0.000	0.000	
61	AFT	3	3.500	0.000	0.000	
62	AFT	3	3.500	0.000	0.000	
63	FORE	3	3.000	0.000	0.000	
63	AFT	3	3.000	0.000	0.000	
64	FORE	3	3.500	0.000	0.000	
64	AFT	3	3.000	0.000	0.000	
65	FORE	3	3.500	0.000	0.000	
65	AFT	3	3.000	0.000	0.000	
66	AFT	3	3.000	0.000	0.000	
67	AFT	3	3.000	0.000	0.000	
70	FORE	3	3.000	0.000	0.000	
72	FORE	3	3.000	0.000	0.000	
74	FORE	3	3.000	0.000	0.000	
76	FORE	3	3.000	0.000	0.000	
78	FORE	3	3.000	0.000	0.000	
78	AFT	3	3.000	0.000	0.000	
79	FORE	3	3.500	0.000	0.000	
80	FORE	3	3.500	0.000	0.000	
81	AFT	3	3.500	0.000	0.000	
82	AFT	3	3.500	0.000	0.000	
83	FORE	3	3.000	0.000	0.000	
83	AFT	3	3.000	0.000	0.000	
84	FORE	3	3.500	0.000	0.000	
84	AFT	3	3.000	0.000	0.000	
85	FORE	3	3.500	0.000	0.000	
85	AFT	3	3.000	0.000	0.000	
86	AFT	3	3.000	0.000	0.000	
87	AFT	3	3.000	0.000	0.000	
90	FORE	3	3.000	0.000	0.000	

STATIC ANALYSIS
CDF CMEX UPGRADE: FRAME ANALYSIS

BEAM	RIGID END	BEAM TYPE	END OFFSET	OFFSET	
92	FORE	3	3.000	0.000	0.000
94	FORE	3	3.000	0.000	0.000
96	FORE	3	3.000	0.000	0.000
98	FORE	3	3.000	0.000	0.000
98	AFT	3	3.000	0.000	0.000
99	FORE	3	3.500	0.000	0.000
100	FORE	3	3.500	0.000	0.000
101	AFT	3	3.500	0.000	0.000
102	AFT	3	3.500	0.000	0.000
103	FORE	3	3.000	0.000	0.000
103	AFT	3	3.000	0.000	0.000
104	FORE	3	3.500	0.000	0.000
104	AFT	3	3.000	0.000	0.000
105	FORE	3	3.500	0.000	0.000
105	AFT	3	3.000	0.000	0.000
106	AFT	3	3.000	0.000	0.000
107	AFT	3	3.000	0.000	0.000
110	FORE	3	3.000	0.000	0.000
112	FORE	3	3.000	0.000	0.000
114	FORE	3	3.000	0.000	0.000
116	FORE	3	3.000	0.000	0.000
118	FORE	3	3.000	0.000	0.000
118	AFT	3	3.000	0.000	0.000
119	FORE	3	3.500	0.000	0.000
120	FORE	3	3.500	0.000	0.000
157	AFT	3	3.500	0.000	0.000
158	AFT	3	3.500	0.000	0.000
159	FORE	3	3.000	0.000	0.000
159	AFT	3	3.000	0.000	0.000
160	AFT	3	3.000	0.000	0.000
161	AFT	3	3.000	0.000	0.000
164	FORE	3	3.500	0.000	0.000
165	FORE	3	3.500	0.000	0.000
166	FORE	3	3.000	0.000	0.000
166	AFT	3	3.000	0.000	0.000
167	FORE	3	3.000	0.000	0.000
168	FORE	3	3.000	0.000	0.000
169	FORE	3	3.000	0.000	0.000
170	FORE	3	3.000	0.000	0.000
233	FORE	3	3.500	0.000	0.000
233	AFT	3	3.000	0.000	0.000
234	FORE	3	3.500	0.000	0.000
234	AFT	3	3.000	0.000	0.000
260	FORE	3	3.000	0.000	0.000
260	AFT	3	3.000	0.000	0.000
263	FORE	3	5.000	0.000	0.000
264	FORE	3	5.000	0.000	0.000
267	FORE	3	3.000	0.000	0.000
267	AFT	3	3.000	0.000	0.000

STATIC ANALYSIS
CDF CMEX UPGRADE: FRAME ANALYSIS

BEAM	RIGID BEAM END OFFSET		OFFSET		
	END	TYPE			
270	FORE	3	5.000	0.000	0.000
271	FORE	3	5.000	0.000	0.000
274	FORE	3	3.000	0.000	0.000
274	AFT	3	3.000	0.000	0.000
277	FORE	3	5.000	0.000	0.000
278	FORE	3	5.000	0.000	0.000
279	FORE	3	4.000	0.000	0.000
280	FORE	3	4.000	0.000	0.000
339	AFT	3	3.000	0.000	0.000
340	AFT	3	3.000	0.000	0.000
341	AFT	3	3.000	0.000	0.000
342	AFT	3	3.000	0.000	0.000
349	AFT	3	3.000	0.000	0.000
350	AFT	3	3.000	0.000	0.000
351	AFT	3	3.000	0.000	0.000
352	AFT	3	3.000	0.000	0.000
353	AFT	3	3.000	0.000	0.000
354	AFT	3	3.000	0.000	0.000
355	AFT	3	3.000	0.000	0.000
356	AFT	3	3.000	0.000	0.000

JOINT	JOINT COORDINATES		
	X	Y	Z
1	215.180	-57.604	159.340
2	216.850	-44.947	159.340
5	221.090	-12.709	159.340
6	222.760	-0.051	159.340
7	179.880	-48.146	200.360
8	180.930	-40.218	200.360
10	185.170	-7.980	200.360
11	186.210	-0.051	200.360
18	192.940	-111.330	159.340
19	197.820	-99.539	159.340
22	210.270	-69.498	159.340
23	161.290	-93.062	200.360
24	164.350	-85.674	200.360
26	176.790	-55.633	200.360
32	157.550	-157.480	159.340
33	165.320	-147.350	159.340
36	185.120	-121.550	159.340
37	131.710	-131.640	200.360
38	136.580	-125.290	200.360
40	156.370	-99.495	200.360
46	221.090	12.709	159.340
49	216.850	44.947	159.340
50	215.180	57.604	159.340

STATIC ANALYSIS
CDF CMEX UPGRADE: FRAME ANALYSIS

JOINT	JOINT COORDINATES		
	X	Y	Z
51	185.170	7.980	200.360
53	180.930	40.218	200.360
54	179.880	48.146	200.360
60	210.270	69.498	159.340
63	197.820	99.539	159.340
64	192.940	111.330	159.340
65	176.790	55.633	200.360
67	164.350	85.674	200.360
68	161.290	93.062	200.360
74	185.120	121.550	159.340
77	165.320	147.350	159.340
78	157.550	157.480	159.340
79	156.370	99.495	200.360
81	136.580	125.290	200.360
82	131.710	131.640	200.360
83	140.239	120.520	200.360
84	167.239	144.856	159.340
85	149.369	108.619	200.360
86	178.805	129.780	159.340
87	166.650	80.117	200.360
88	199.030	96.638	159.340
89	172.390	66.258	200.360
90	206.300	79.084	159.340
91	181.714	34.253	200.360
92	217.260	41.833	159.340
93	183.670	19.382	200.360
94	219.737	22.995	159.340
95	184.390	-13.944	200.360
96	220.680	-15.823	159.340
97	182.430	-28.816	200.360
98	218.203	-34.660	159.340
99	174.489	-61.190	200.360
100	209.060	-72.399	159.340
101	168.750	-75.049	200.360
102	201.789	-89.953	159.340
103	152.710	-104.260	200.360
104	183.200	-124.040	159.340
105	143.580	-116.166	200.360
106	171.635	-139.118	159.340
107	132.557	114.627	211.323
108	174.920	150.749	148.379
109	141.687	102.726	211.320
110	186.487	135.673	148.379
111	123.823	107.926	201.597
112	166.188	144.049	138.655
113	132.953	96.025	201.597
114	177.750	128.973	138.655
115	157.704	76.412	211.322

STATIC ANALYSIS
CDF CMEX UPGRADE: FRAME ANALYSIS

JOINT	JOINT COORDINATES		
	X	Y	Z
116	207.976	100.343	148.379
117	163.444	62.553	211.321
118	215.246	82.788	148.379
119	147.534	72.201	201.597
120	197.806	96.131	138.655
121	153.274	58.342	201.597
122	205.076	78.577	138.655
123	172.115	32.989	211.322
124	226.859	43.097	148.378
125	174.071	18.118	211.322
126	229.336	24.259	148.378
127	161.201	31.554	201.599
128	215.944	41.661	138.655
129	163.157	16.683	201.599
130	218.421	22.823	138.655
131	174.791	-12.680	211.322
132	230.279	-17.087	148.378
133	172.831	-27.552	211.322
134	227.802	-35.924	148.378
135	163.877	-11.245	201.599
136	219.364	-15.651	138.655
137	161.917	-26.117	201.599
138	216.887	-34.488	138.655
139	165.545	-57.485	211.322
140	218.004	-76.104	148.378
141	159.806	-71.344	211.322
142	210.733	-93.658	148.378
143	155.374	-53.273	201.599
144	207.833	-71.892	138.655
145	149.635	-67.132	201.599
146	200.562	-89.446	138.655
147	145.030	-98.365	211.322
148	190.880	-129.935	148.378
149	135.900	-110.271	211.322
150	179.315	-145.013	148.378
151	136.296	-91.664	201.599
152	182.146	-123.234	138.655
153	127.166	-103.570	201.599
154	170.580	-138.312	138.655
155	150.179	119.244	170.127
156	175.923	76.313	170.127
157	189.681	28.181	170.127
158	190.512	-21.876	170.127
159	178.352	-70.436	170.127
160	154.047	-114.195	170.127
161	148.873	-120.941	170.127
162	159.221	-107.449	170.127
163	175.099	-78.289	170.127

STATIC ANALYSIS
CDF CMEX UPGRADE: FRAME ANALYSIS

JOINT	JOINT COORDINATES		
	X	Y	Z
164	181.604	-62.583	170.127
165	189.402	-30.303	170.127
166	191.621	-13.448	170.127
167	190.789	19.753	170.127
168	188.573	36.608	170.127
169	179.175	68.460	170.127
170	172.670	84.166	170.127
171	155.352	112.499	170.127
172	145.006	125.988	170.127
173	125.290	136.576	200.360
174	147.350	165.320	159.340
175	99.500	156.370	200.360
176	121.550	185.120	159.340
177	93.150	161.240	200.360
178	111.420	192.890	159.340
179	116.170	143.580	200.360
180	139.120	171.640	159.340
181	104.270	152.710	200.360
182	124.050	183.200	159.340
183	110.270	135.897	211.323
184	145.020	179.320	148.379
185	98.370	145.030	211.323
186	129.940	190.880	148.379
187	103.570	127.160	201.597
188	138.310	170.580	138.655
189	91.670	136.296	201.597
190	123.240	182.150	138.597
191	120.940	148.870	170.127
192	107.460	159.230	170.127
193	114.200	154.050	170.127
248	196.000	45.598	200.360
249	232.000	45.598	159.340
250	196.000	24.099	200.360
251	232.000	28.828	159.340
252	196.000	-10.876	200.360
253	232.000	-10.876	159.340
254	196.000	-24.099	200.360
255	232.000	-28.828	159.340
256	196.000	-67.350	200.360
257	232.000	-67.350	159.340
258	196.000	-70.654	200.360
259	232.000	-84.519	159.340
260	196.000	-147.350	200.360
261	232.000	-147.350	159.340
265	214.000	17.361	179.850
266	214.000	-39.113	179.850
267	214.000	-107.350	179.850
285	112.395	146.473	200.360

STATIC ANALYSIS
CDF CMEX UPGRADE: FRAME ANALYSIS

JOINT	JOINT COORDINATES		
	X	Y	Z
286	134.450	175.220	159.340
287	146.475	112.393	200.360
288	175.220	134.450	159.340
289	218.970	28.828	159.340
290	183.050	24.099	200.360
291	218.970	-28.828	159.340
292	183.050	-24.099	200.360
293	204.045	-84.519	159.340
294	170.570	-70.654	200.360
295	204.045	84.519	159.340
296	170.570	70.654	200.360

CODE	MATERIAL PROPERTIES				
	E	POISSON'S	DENSITY	THERMAL COEFFICIENT	YIELD
1	30.0E+06	0.290	2.840E-01	2.010E-06	3.600E+04
2	30.0E+09	0.290	1.000E-03	2.010E-06	4.200E+04
3	30.0E+06	0.290	2.840E-01	2.010E-06	4.200E+04

CODE	SPECIAL CROSS SECTIONS						
	TYPE	P1	P2	P3	P4	P5	P6
1	STEEL SECT.	W8X24	AISC 8TH				
2	STEEL SECT.	T7X7X4	AISC 8TH				
3	STEEL SECT.	T6X6X4	AISC 8TH				
7	STEEL SECT.	T10X6X8	AISC 8TH				
8	STEEL SECT.	T6X6X8	AISC 8TH				
9	STEEL SECT.	L3X3X5	AISC 8TH				

CODE	CROSS-SECTION PROPERTIES							
	AREA	MOMENTS OF INERTIA		SHEAR RATIO		TORSION	WARPING	DEG.
		Z	Y	Y	Z	CONSTANT	CONSTANT	FIX.
1	7.080E+00	8.280E+01	1.830E+01	3.74	1.50	3.500E-01	2.590E+02	0.60
2	6.590E+00	4.940E+01	4.940E+01	2.21	2.21	7.878E+01		
3	5.590E+00	3.033E+01	3.033E+01	2.19	2.19	4.887E+01		
4	9.000E+00	6.750E+00	6.750E+00	1.16	1.16	1.159E+01		
5	3.134E+00	7.816E-01	7.816E-01	1.13	1.13	1.563E+00		
6	1.963E-01	3.050E-03	3.050E-03	1.13	1.13	6.100E-03		
7	1.435E+01	1.807E+02	8.080E+01	1.60	3.29	1.889E+02		
8	1.035E+01	5.047E+01	5.047E+01	2.08	2.08	8.698E+01		
9	1.780E+00	2.403E+00	6.294E-01	2.13	2.40	7.058E-02	2.861E-02	0.40
10	1.097E+01	1.027E+02	6.340E+01	1.95	2.37	1.138E+02	4.294E+01	

STATIC ANALYSIS
CDF CMEX UPGRADE: FRAME ANALYSIS

CODE	ECCENTRICITY	
	Z	Y
9	0.950	0.000
10	0.001	0.002

CODE	STRESS RECOVERY VALUES				C(Y)	POINT 2/4	
	COMBINED STRESS	C(Y)	POINT 1/3 C(Z)	R(EFF)		C(Z)	R(EFF)
1	422	3.970	3.250	0.000	3.970	0.000	0.666
		-3.970	0.000	0.666			
2	4	3.350	3.350	3.480			
3	4	2.850	2.850	2.970			
4	0	1.000	1.000	1.000			
6	0	1.000	1.000	1.000			
7	4	4.880	2.470	3.650			
8	4	2.710	2.710	2.910			
9	2	2.120	0.910	0.000	0.000	-1.210	0.498
		-2.120	0.910				
10	0	1.000	1.000	1.000			

TOTAL STRUCTURE WEIGHT/MASS = 6.502E+03

C.G. LOCATION: X = 189.162 Y = -9.173 Z = 178.378

SPECIFIED RESTRAINTS
JOINT DIRECTION VALUE

105	123
106	123
260	123
261	123
256	123
257	123

STATIC ANALYSIS
CDF CMEX UPGRADE: FRAME ANALYSIS

LOADING NO. 1: FULL LOAD WITH BASE AND 7 CHAMBERS

ACCELERATION LOADING

A(X) = 0.000E+00

A(Y) = -1.000E+00

A(Z) = -0.000E+00

JOINT	APPLIED FORCES DIR	TYPE	VALUE	FINAL JOINT	INC.
155	Y	FORCE	-8.270E+02		
156	Y	FORCE	-8.270E+02		
157	Y	FORCE	-8.270E+02		
158	Y	FORCE	-8.270E+02		
159	Y	FORCE	-8.270E+02		
160	Y	FORCE	-8.270E+02		
193	Y	FORCE	-8.270E+02		
155	Z	FORCE	-8.300E+01		
156	Z	FORCE	-8.300E+01		
157	Z	FORCE	-8.300E+01		
158	Z	FORCE	-8.300E+01		
159	Z	FORCE	-8.300E+01		
160	Z	FORCE	-8.300E+01		
193	Z	FORCE	-8.300E+01		

TOTAL APPLIED FORCES:

F(X) = 0.000E+00 F(Y) = -1.229E+04 F(Z) = -5.810E+02

MOMENTS ABOUT ORIGIN:

M(X) = 2.131E+06 M(Y) = 9.569E+04 M(Z) = -2.183E+06

DEGREES OF FREEDOM = 966
MAXIMUM BANDWIDTH = 924
AVERAGE BANDWIDTH = 141
PROFILE SIZE = 136527

NUMBER OF JOINTS = 178
NUMBER OF ELEMENTS = 229
MAXIMUM JOINT NUMBER = 296
MAXIMUM ELEMENT NUMBER = 356

DIAGONAL ELEMENTS: AVERAGE = 6.665E+08 SMALLEST = 4.103E+04 ROW 702

F R A M E

S T A T I C A N A L Y S I S

S T R U C T U R A L D Y N A M I C S R E S E A R C H C O R P O R A T I O N

C D F C M E X U P G R A D E : F R A M E A N A L Y S I S

UNITS USED FOR RESULTS:

UNITS FOR DISPLACEMENT ARE: IN

UNITS FOR FORCE ARE: LB

UNITS FOR STRESS ARE: PSI

UNITS FOR STRAIN ENERGY ARE: LB -IN

*** LOADING NO. 1: FULL LOAD WITH BASE AND 7 CHAMBERS

JOINT	JOINT DISPLACEMENTS			THETA(X)	THETA(Y)	THETA(Z)
	X	Y	Z			
1	1.078E-03	-3.504E-03	-1.367E-03	-1.400E-04	-3.784E-05	9.615E-05
2	-9.938E-04	-3.467E-03	-3.286E-03	-1.783E-04	-2.982E-05	1.935E-04
5	-8.354E-03	-2.910E-03	-1.103E-02	-3.109E-04	-2.322E-05	2.808E-04
6	-1.208E-02	-2.622E-03	-1.503E-02	-3.975E-04	-9.316E-05	4.082E-04
7	-4.293E-04	-2.776E-03	-2.713E-03	-1.778E-04	-2.321E-05	1.283E-04
8	-2.014E-03	-2.778E-03	-4.274E-03	-2.023E-04	-1.982E-05	2.068E-04
10	-1.102E-02	-2.193E-03	-1.350E-02	-3.751E-04	-5.104E-05	3.398E-04
11	-1.369E-02	-2.021E-03	-1.644E-02	-4.413E-04	-7.794E-05	4.387E-04
18	3.179E-03	-3.317E-03	1.019E-03	-1.504E-05	-4.308E-05	-3.140E-05
19	2.596E-03	-3.371E-03	9.373E-04	-2.338E-05	-3.209E-05	5.121E-05
22	1.286E-03	-3.339E-03	-3.658E-04	-9.118E-05	-2.593E-06	2.119E-05
23	2.487E-03	-2.775E-03	4.079E-04	-2.340E-05	-2.872E-05	-2.995E-05
24	2.058E-03	-2.849E-03	2.618E-04	-2.242E-05	-2.499E-05	4.264E-05
26	-4.820E-05	-2.704E-03	-1.747E-03	-1.394E-04	-1.266E-05	6.081E-05
32	-1.782E-03	1.362E-03	-9.990E-04	1.974E-05	-5.562E-05	-9.236E-05
33	-8.468E-04	6.448E-04	-3.682E-04	1.965E-05	-5.555E-05	-9.253E-05
36	2.220E-03	-2.237E-03	6.530E-04	1.022E-05	-2.427E-05	-1.089E-04
37	-1.425E-03	1.096E-03	-8.209E-04	3.767E-05	-3.056E-05	-8.572E-05
38	-8.804E-04	6.786E-04	-4.331E-04	3.766E-05	-3.055E-05	-8.574E-05
40	1.895E-03	-2.024E-03	3.101E-04	-1.564E-05	-1.976E-05	-1.012E-04
46	-1.840E-02	-3.659E-03	-2.095E-02	-5.035E-04	-8.590E-05	5.458E-04
49	-4.048E-02	-6.736E-03	-4.284E-02	-7.911E-04	-1.205E-04	8.865E-04
50	-5.285E-02	-8.387E-03	-5.387E-02	-9.354E-04	-2.184E-04	1.107E-03
51	-1.787E-02	-2.748E-03	-2.045E-02	-5.085E-04	-8.045E-05	5.445E-04
53	-4.113E-02	-6.197E-03	-4.330E-02	-8.207E-04	-1.562E-04	9.067E-04
54	-4.871E-02	-7.278E-03	-5.021E-02	-9.131E-04	-1.924E-04	1.071E-03
60	-6.770E-02	-1.453E-02	-6.748E-02	-1.118E-03	-1.935E-04	1.309E-03
63	-1.121E-01	-3.297E-02	-1.074E-01	-1.346E-03	-2.507E-04	1.596E-03
64	-1.317E-01	-4.106E-02	-1.251E-01	-1.425E-03	-3.106E-04	1.721E-03
65	-5.771E-02	-1.107E-02	-5.831E-02	-1.025E-03	-1.935E-04	1.227E-03

STATIC ANALYSIS
CDF CMEX UPGRADE: FRAME ANALYSIS
LOADING 1 - FULL LOAD WITH BASE AND 7 CHAMBERS

JOINT	X	Y	Z	THETA(X)	THETA(Y)	THETA(Z)
67	-1.012E-01	-2.927E-02	-9.706E-02	-1.307E-03	-2.740E-04	1.569E-03
68	-1.130E-01	-3.423E-02	-1.077E-01	-1.364E-03	-2.950E-04	1.664E-03
74	-1.501E-01	-5.515E-02	-1.430E-01	-1.547E-03	-3.113E-04	1.821E-03
77	-1.993E-01	-9.294E-02	-1.909E-01	-1.657E-03	-3.464E-04	1.944E-03
78	-2.193E-01	-1.083E-01	-2.106E-01	-1.686E-03	-3.646E-04	1.986E-03
79	-1.242E-01	-4.285E-02	-1.184E-01	-1.444E-03	-3.029E-04	1.747E-03
81	-1.722E-01	-7.979E-02	-1.647E-01	-1.595E-03	-3.596E-04	1.907E-03
82	-1.844E-01	-8.919E-02	-1.766E-01	-1.620E-03	-3.639E-04	1.940E-03
83	-1.631E-01	-7.281E-02	-1.557E-01	-1.595E-03	-3.596E-04	1.907E-03
84	-1.945E-01	-8.921E-02	-1.861E-01	-1.657E-03	-3.464E-04	1.944E-03
85	-1.406E-01	-5.550E-02	-1.340E-01	-1.494E-03	-3.081E-04	1.836E-03
86	-1.653E-01	-6.687E-02	-1.578E-01	-1.573E-03	-3.133E-04	1.867E-03
87	-9.244E-02	-2.566E-02	-8.917E-02	-1.307E-03	-2.740E-04	1.569E-03
88	-1.075E-01	-3.103E-02	-1.032E-01	-1.346E-03	-2.507E-04	1.596E-03
89	-7.166E-02	-1.693E-02	-7.063E-02	-1.115E-03	-2.081E-04	1.387E-03
90	-8.072E-02	-1.993E-02	-7.927E-02	-1.174E-03	-2.062E-04	1.390E-03
91	-3.572E-02	-5.486E-03	-3.829E-02	-8.207E-04	-1.562E-04	9.067E-04
92	-3.772E-02	-6.373E-03	-4.033E-02	-7.911E-04	-1.205E-04	8.865E-04
93	-2.449E-02	-3.820E-03	-2.697E-02	-6.191E-04	-1.127E-04	6.186E-04
94	-2.412E-02	-4.496E-03	-2.667E-02	-5.931E-04	-1.130E-04	5.623E-04
95	-8.991E-03	-2.458E-03	-1.131E-02	-3.751E-04	-5.104E-05	3.398E-04
96	-7.479E-03	-3.025E-03	-1.007E-02	-3.109E-04	-2.322E-05	2.808E-04
97	-4.811E-03	-2.645E-03	-6.819E-03	-2.496E-04	-3.044E-05	2.676E-04
98	-3.117E-03	-3.286E-03	-5.269E-03	-2.215E-04	-3.838E-05	2.115E-04
99	2.897E-04	-2.844E-03	-1.001E-03	-1.394E-04	-1.266E-05	6.081E-05
100	1.347E-03	-3.365E-03	-1.044E-04	-9.118E-05	-2.593E-06	2.119E-05
101	1.109E-03	-2.729E-03	1.067E-05	-3.603E-05	-2.829E-05	8.772E-05
102	1.897E-03	-3.207E-03	7.455E-04	-4.044E-05	-3.631E-05	6.388E-05
103	1.412E-03	-1.654E-03	3.123E-04	-1.564E-05	-1.976E-05	-1.012E-04
104	1.948E-03	-2.028E-03	5.809E-04	1.022E-05	-2.427E-05	-1.089E-04
105	0.000E+00	0.000E+00	0.000E+00	1.409E-05	-2.169E-05	-1.055E-04
106	0.000E+00	0.000E+00	0.000E+00	-1.003E-05	-4.963E-05	-1.184E-04
107	-1.559E-01	-7.024E-02	-1.493E-01	-1.593E-03	-3.799E-04	1.935E-03
108	-2.021E-01	-9.251E-02	-1.932E-01	-1.654E-03	-3.567E-04	1.940E-03
109	-1.329E-01	-5.329E-02	-1.274E-01	-1.544E-03	-3.006E-04	1.893E-03
110	-1.729E-01	-7.006E-02	-1.648E-01	-1.623E-03	-3.208E-04	1.890E-03
111	-1.393E-01	-1.030E-01	-1.417E-01	-1.648E-03	-3.569E-04	1.908E-03
112	-1.855E-01	-1.252E-01	-1.856E-01	-1.632E-03	-3.670E-04	1.912E-03
113	-1.169E-01	-8.582E-02	-1.193E-01	-1.637E-03	-3.708E-04	1.907E-03
114	-1.568E-01	-1.029E-01	-1.567E-01	-1.628E-03	-3.628E-04	1.918E-03
115	-8.977E-02	-2.553E-02	-8.695E-02	-1.298E-03	-2.892E-04	1.574E-03
116	-1.107E-01	-3.155E-02	-1.060E-01	-1.334E-03	-2.544E-04	1.580E-03
117	-6.851E-02	-1.738E-02	-6.820E-02	-1.171E-03	-1.994E-04	1.474E-03
118	-8.358E-02	-2.072E-02	-8.185E-02	-1.249E-03	-2.154E-04	1.435E-03
119	-8.060E-02	-5.407E-02	-8.421E-02	-1.313E-03	-2.383E-04	1.518E-03
120	-1.015E-01	-6.006E-02	-1.032E-01	-1.304E-03	-2.517E-04	1.519E-03
121	-5.998E-02	-4.525E-02	-6.504E-02	-1.314E-03	-2.536E-04	1.512E-03
122	-7.511E-02	-4.870E-02	-7.860E-02	-1.298E-03	-2.421E-04	1.528E-03

STATIC ANALYSIS
CDF CMEX UPGRADE: FRAME ANALYSIS
LOADING 1 - FULL LOAD WITH BASE AND 7 CHAMBERS

JOINT	X	Y	Z	THETA(X)	THETA(Y)	THETA(Z)
123	-3.629E-02	-5.126E-03	-3.872E-02	-7.975E-04	-1.384E-04	8.714E-04
124	-3.773E-02	-6.668E-03	-4.036E-02	-7.921E-04	-9.518E-05	8.721E-04
125	-2.490E-02	-3.453E-03	-2.730E-02	-6.598E-04	-1.254E-04	7.205E-04
126	-2.338E-02	-5.957E-03	-2.620E-02	-6.805E-04	-1.425E-04	6.297E-04
127	-3.414E-02	-2.155E-02	-3.872E-02	-7.260E-04	-9.858E-05	8.045E-04
128	-3.561E-02	-2.334E-02	-4.028E-02	-7.276E-04	-1.124E-04	8.047E-04
129	-2.244E-02	-1.922E-02	-2.773E-02	-7.468E-04	-1.076E-04	7.902E-04
130	-2.097E-02	-1.124E-02	-2.664E-02	-7.230E-04	-9.603E-05	8.089E-04
131	-9.959E-03	-1.770E-03	-1.222E-02	-3.634E-04	-3.754E-05	3.485E-04
132	-7.090E-03	-3.824E-03	-9.632E-03	-3.240E-04	-4.680E-07	2.897E-04
133	-5.543E-03	-2.733E-03	-7.467E-03	-2.684E-04	-3.969E-05	3.142E-04
134	-2.216E-03	-4.084E-03	-4.402E-03	-2.927E-04	-5.767E-05	2.506E-04
135	-1.032E-02	-8.749E-03	-1.285E-02	-3.011E-04	-1.813E-05	3.090E-04
136	-7.448E-03	-1.028E-02	-1.021E-02	-2.958E-04	-3.132E-05	3.118E-04
137	-5.584E-03	-9.313E-03	-8.390E-03	-3.030E-04	-1.658E-05	3.072E-04
138	-2.247E-03	-1.061E-02	-5.304E-03	-2.857E-04	-5.459E-06	3.221E-04
139	-1.850E-04	-2.099E-03	-1.639E-03	-1.398E-04	-9.329E-06	9.465E-05
140	1.338E-03	-4.211E-03	1.707E-04	-1.032E-04	9.899E-06	3.490E-05
141	4.568E-04	-3.257E-03	-3.612E-04	-4.983E-05	-2.936E-05	1.119E-04
142	2.613E-03	-3.503E-03	1.420E-03	-1.019E-04	-3.718E-05	8.751E-05
143	-6.783E-04	-4.441E-03	-2.143E-03	-9.593E-05	2.685E-06	7.995E-05
144	1.057E-03	-5.878E-03	-2.715E-04	-8.930E-05	-9.697E-06	8.338E-05
145	3.006E-04	-5.209E-03	-1.033E-03	-8.957E-05	-5.598E-06	8.426E-05
146	2.279E-03	-5.829E-03	7.875E-04	-7.406E-05	5.435E-06	9.790E-05
147	1.704E-03	-8.044E-04	6.434E-05	-1.333E-05	-1.724E-05	-8.348E-05
148	1.418E-03	-2.840E-03	6.536E-04	-3.555E-06	-3.422E-07	-9.425E-05
149	2.823E-04	4.913E-04	-1.017E-04	-2.460E-06	-3.293E-05	-7.551E-05
150	-9.053E-05	-1.368E-03	6.515E-04	-5.778E-05	-5.100E-05	-9.790E-05
151	2.280E-03	-1.983E-04	-4.049E-05	1.572E-05	-2.280E-05	-6.982E-05
152	1.856E-03	-2.234E-03	6.722E-04	1.770E-05	-2.990E-05	-6.328E-05
153	1.237E-03	7.106E-04	-7.922E-04	3.370E-06	-3.436E-05	-7.096E-05
154	7.464E-04	-1.293E-03	-2.520E-05	2.209E-05	-2.592E-05	-6.040E-05
155	-1.496E-01	-1.044E-01	-1.509E-01	-1.634E-03	-3.629E-04	1.910E-03
156	-7.929E-02	-5.222E-02	-8.281E-02	-1.304E-03	-2.454E-04	1.518E-03
157	-2.829E-02	-2.154E-02	-3.337E-02	-7.296E-04	-1.032E-04	7.985E-04
158	-6.425E-03	-9.941E-03	-9.181E-03	-2.946E-04	-1.765E-05	3.086E-04
159	6.938E-04	-5.528E-03	-6.251E-04	-8.505E-05	-1.937E-06	8.298E-05
160	1.487E-03	-9.269E-04	1.410E-05	1.612E-05	-2.816E-05	-6.984E-05
161	1.017E-03	-5.659E-04	-2.401E-04	1.571E-05	-2.870E-05	-6.927E-05
162	1.956E-03	-1.286E-03	2.694E-04	1.670E-05	-2.777E-05	-6.895E-05
163	1.353E-03	-5.801E-03	2.887E-05	-8.260E-05	-6.151E-07	8.530E-05
164	4.757E-05	-5.261E-03	-1.295E-03	-8.783E-05	-3.123E-06	8.172E-05
165	-3.819E-03	-1.028E-02	-6.720E-03	-2.935E-04	-1.361E-05	3.101E-04
166	-9.025E-03	-9.599E-03	-1.165E-02	-2.957E-04	-2.168E-05	3.085E-04
167	-2.156E-02	-2.066E-02	-2.710E-02	-7.314E-04	-1.017E-04	7.981E-04
168	-3.502E-02	-2.243E-02	-3.963E-02	-7.277E-04	-1.048E-04	8.003E-04
169	-6.737E-02	-4.729E-02	-7.177E-02	-1.304E-03	-2.470E-04	1.518E-03
170	-9.121E-02	-5.716E-02	-9.385E-02	-1.306E-03	-2.443E-04	1.517E-03

STATIC ANALYSIS
CDF CMEX UPGRADE: FRAME ANALYSIS
LOADING 1 - FULL LOAD WITH BASE AND 7 CHAMBERS

JOINT	X	Y	Z	THETA(X)	THETA(Y)	THETA(Z)
171	-1.367E-01	-9.454E-02	-1.380E-01	-1.632E-03	-3.652E-04	1.911E-03
172	-1.625E-01	-1.143E-01	-1.638E-01	-1.636E-03	-3.615E-04	1.910E-03
173	-1.941E-01	-1.019E-01	-1.871E-01	-1.657E-03	-3.687E-04	1.965E-03
174	-2.350E-01	-1.288E-01	-2.279E-01	-1.738E-03	-3.722E-04	2.007E-03
175	-2.335E-01	-1.532E-01	-2.304E-01	-1.702E-03	-3.918E-04	1.989E-03
176	-2.751E-01	-1.810E-01	-2.723E-01	-1.775E-03	-3.714E-04	2.017E-03
177	-2.432E-01	-1.659E-01	-2.411E-01	-1.702E-03	-3.918E-04	1.989E-03
178	-2.908E-01	-2.014E-01	-2.898E-01	-1.774E-03	-3.713E-04	2.017E-03
179	-2.080E-01	-1.200E-01	-2.022E-01	-1.674E-03	-3.679E-04	1.991E-03
180	-2.478E-01	-1.454E-01	-2.420E-01	-1.749E-03	-3.682E-04	2.018E-03
181	-2.263E-01	-1.437E-01	-2.223E-01	-1.702E-03	-3.918E-04	1.989E-03
182	-2.712E-01	-1.760E-01	-2.679E-01	-1.775E-03	-3.714E-04	2.017E-03
183	-1.966E-01	-1.133E-01	-1.914E-01	-1.707E-03	-3.643E-04	2.020E-03
184	-2.592E-01	-1.529E-01	-2.534E-01	-1.776E-03	-3.764E-04	2.027E-03
185	-2.152E-01	-1.370E-01	-2.116E-01	-1.709E-03	-4.036E-04	2.021E-03
186	-2.826E-01	-1.837E-01	-2.794E-01	-1.783E-03	-3.838E-04	2.022E-03
187	-1.752E-01	-1.440E-01	-1.785E-01	-1.753E-03	-4.055E-04	2.021E-03
188	-2.376E-01	-1.838E-01	-2.404E-01	-1.747E-03	-4.029E-04	2.028E-03
189	-1.935E-01	-1.677E-01	-1.990E-01	-1.766E-03	-3.996E-04	2.019E-03
190	-2.609E-01	-2.145E-01	-2.668E-01	-1.746E-03	-4.048E-04	2.024E-03
191	-2.063E-01	-1.640E-01	-2.095E-01	-1.750E-03	-4.032E-04	2.023E-03
192	-2.273E-01	-1.913E-01	-2.331E-01	-1.753E-03	-4.015E-04	2.021E-03
193	-2.168E-01	-1.777E-01	-2.213E-01	-1.751E-03	-4.020E-04	2.022E-03
248	-3.871E-02	1.173E-03	-3.962E-02	-4.979E-04	-8.091E-05	5.285E-04
249	-3.572E-02	3.058E-04	-3.696E-02	-4.739E-04	-8.589E-05	4.954E-04
250	-2.740E-02	1.158E-03	-2.868E-02	-5.393E-04	-9.955E-05	5.123E-04
251	-2.748E-02	3.351E-04	-2.891E-02	-5.089E-04	-1.036E-04	4.807E-04
252	-1.076E-02	7.914E-04	-1.228E-02	-3.725E-04	-2.938E-05	3.843E-04
253	-1.004E-02	9.966E-05	-1.158E-02	-3.403E-04	-3.419E-05	3.573E-04
254	-6.215E-03	6.264E-04	-7.832E-03	-2.941E-04	-2.035E-05	2.744E-04
255	-4.566E-03	5.184E-05	-6.272E-03	-2.493E-04	-2.503E-05	2.360E-04
256	0.000E+00	0.000E+00	0.000E+00	-8.048E-05	-1.053E-05	8.314E-05
257	0.000E+00	0.000E+00	0.000E+00	-8.283E-05	-7.443E-06	7.191E-05
258	3.313E-04	-1.105E-05	2.375E-04	-6.767E-05	-1.298E-05	7.818E-05
259	1.113E-03	-1.006E-04	9.850E-04	-3.436E-05	-1.242E-05	5.869E-05
260	0.000E+00	0.000E+00	0.000E+00	3.537E-05	-1.199E-05	-4.239E-05
261	0.000E+00	0.000E+00	0.000E+00	3.829E-05	-1.287E-05	-5.138E-05
265	-2.250E-02	5.863E-04	-2.391E-02	-4.623E-04	-3.512E-05	4.782E-04
266	-3.092E-03	1.966E-04	-3.878E-03	-1.770E-04	-1.275E-06	1.507E-04
267	1.293E-03	-1.611E-05	1.137E-03	1.942E-05	3.253E-06	-1.694E-05
285	-2.138E-01	-1.275E-01	-2.085E-01	-1.680E-03	-3.742E-04	1.991E-03
286	-2.550E-01	-1.549E-01	-2.500E-01	-1.751E-03	-3.664E-04	2.024E-03
287	-1.476E-01	-6.089E-02	-1.407E-01	-1.516E-03	-3.198E-04	1.852E-03
288	-1.742E-01	-7.368E-02	-1.664E-01	-1.584E-03	-3.177E-04	1.897E-03
289	-2.750E-02	-4.997E-03	-3.046E-02	-6.498E-04	-1.242E-04	5.752E-04
290	-2.742E-02	-4.272E-03	-3.019E-02	-6.786E-04	-1.263E-04	6.211E-04
291	-4.503E-03	-3.171E-03	-6.617E-03	-2.378E-04	-3.414E-05	2.306E-04
292	-6.137E-03	-2.550E-03	-8.096E-03	-2.794E-04	-3.158E-05	2.732E-04

STATIC ANALYSIS
CDF CMEX UPGRADE: FRAME ANALYSIS
LOADING 1 - FULL LOAD WITH BASE AND 7 CHAMBERS

JOINT	X	Y	Z	THETA(X)	THETA(Y)	THETA(Z)
293	1.383E-03	-3.082E-03	5.544E-04	-4.110E-05	-3.196E-05	7.001E-05
294	6.283E-04	-2.625E-03	-1.892E-04	-5.343E-05	-2.542E-05	8.593E-05
295	-8.859E-02	-2.320E-02	-8.629E-02	-1.204E-03	-2.152E-04	1.450E-03
296	-7.793E-02	-1.955E-02	-7.612E-02	-1.155E-03	-2.222E-04	1.425E-03

MAXIMUM DISPLACEMENTS

JOINT	178	190	178	186	187	188
VALUE	-2.908E-01	-2.145E-01	-2.898E-01	-1.783E-03	-4.055E-04	2.028E-03

JOINT	JOINT REACTIONS					
	F(X)	F(Y)	F(Z)	M(X)	M(Y)	M(Z)
105	4.186E+03	9.044E+03	9.977E+01	0.000E+00	0.000E+00	0.000E+00
106	1.079E+03	4.871E+03	-2.390E+02	0.000E+00	0.000E+00	0.000E+00
256	-3.342E+03	-5.406E+03	6.198E+02	0.000E+00	0.000E+00	0.000E+00
257	-1.397E+03	2.698E+03	2.761E+02	0.000E+00	0.000E+00	0.000E+00
260	-2.163E+02	2.434E+02	-9.317E+01	0.000E+00	0.000E+00	0.000E+00
261	-3.093E+02	8.406E+02	-8.255E+01	0.000E+00	0.000E+00	0.000E+00
TOTAL	5.088E-06	1.229E+04	5.810E+02	0.000E+00	0.000E+00	0.000E+00

SUMMATION OF FORCES AT JOINTS

JOINT: 1						
BEAM	F(X)	F(Y)	F(Z)	M(X)	M(Y)	M(Z)
39	-8.758E+02	-5.310E+03	3.375E+02	-1.426E+04	2.091E+03	2.204E+04
41	8.758E+02	5.310E+03	-3.375E+02	1.426E+04	-2.091E+03	-2.204E+04
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	0.000E+00	0.000E+00	3.052E-05	0.000E+00	2.441E-04	1.953E-03

JOINT: 2						
BEAM	F(X)	F(Y)	F(Z)	M(X)	M(Y)	M(Z)
41	-8.758E+02	-5.292E+03	3.375E+02	-1.853E+04	2.654E+03	1.980E+04
43	-1.495E+02	4.044E+01	-6.714E+01	9.337E+01	-4.549E+03	-5.883E+01
44	1.025E+03	5.251E+03	-2.703E+02	1.844E+04	1.894E+03	-1.974E+04
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	-1.221E-04	-9.766E-04	3.052E-05	0.000E+00	3.662E-04	-1.953E-03

STATIC ANALYSIS
 CDF CMEX UPGRADE: FRAME ANALYSIS
 LOADING 1 - FULL LOAD WITH BASE AND 7 CHAMBERS

JOINT: 295

BEAM	F(X)	F(Y)	F(Z)	M(X)	M(Y)	M(Z)
86	5.989E+02	3.371E+02	7.037E+01	3.208E+04	1.200E+04	-4.081E+04
355	-5.989E+02	-3.371E+02	-7.037E+01	-3.208E+04	-1.200E+04	4.081E+04
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	0.000E+00	0.000E+00	2.289E-05	0.000E+00	0.000E+00	0.000E+00

JOINT: 296

BEAM	F(X)	F(Y)	F(Z)	M(X)	M(Y)	M(Z)
87	-4.920E+02	2.744E+03	5.583E+02	4.862E+04	1.849E+04	-5.586E+04
356	4.920E+02	-2.744E+03	-5.583E+02	-4.862E+04	-1.849E+04	5.586E+04
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	-3.052E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.906E-03

FORCES AND MOMENTS IN BEAMS

BEAM	JT.	FORCES			MOMENTS		
		X	Y	Z	X	Y	Z
1	32	2.341E-07	8.138E-14	1.094E-14	2.274E-13	-1.836E-07	2.078E-07
	33	1.478E+01	8.500E+00	7.507E+00	2.274E-13	3.478E+01	-3.938E+01
2	37	-4.374E-09	-3.125E-13	-4.272E-14	-5.542E-13	1.666E-09	-1.886E-09
	38	7.184E+00	4.130E+00	3.647E+00	-5.542E-13	8.210E+00	-9.297E+00
3	38	-5.210E+01	1.174E+02	-8.476E+01	1.073E+02	1.467E+03	3.332E+03
	33	-8.886E+01	1.897E+02	-1.264E+02	1.073E+02	-3.678E+03	-4.150E+03
4	38	-1.102E+02	-8.062E+01	-4.843E+01	-1.721E+03	3.536E+03	3.658E+02
	105	-1.022E+02	-7.603E+01	-4.438E+01	-1.721E+03	3.304E+03	7.574E+02
5	33	2.046E+02	1.348E+02	9.633E+01	-4.056E+03	5.119E+03	-6.478E+02
	106	2.107E+02	1.384E+02	9.947E+01	-4.056E+03	5.498E+03	-1.177E+03
6	106	-6.923E+03	-8.571E+02	-5.251E+02	8.369E+02	3.106E+03	-4.269E+03
	104	-6.902E+03	-8.452E+02	-5.145E+02	8.369E+02	-3.653E+03	6.799E+03
7	105	-1.068E+04	-1.202E+03	-1.031E+03	-1.277E+03	5.588E+03	1.192E+01
	103	-1.067E+04	-1.194E+03	-1.024E+03	-1.277E+03	-3.662E+03	1.080E+04
8	104	-6.690E+03	-9.020E+02	-6.068E+02	-2.631E+02	-5.579E+03	5.436E+03
	36	-6.690E+03	-9.020E+02	-6.068E+02	-2.631E+02	-7.487E+03	8.273E+03

STATIC ANALYSIS
CDF CMEX UPGRADE: FRAME ANALYSIS
LOADING 1 - FULL LOAD WITH BASE AND 7 CHAMBERS

BEAM	JT.	FORCES			MOMENTS		
		X	Y	Z	X	Y	Z
9	103	-1.054E+04	-1.251E+03	-1.073E+03	-1.235E+03	-2.028E+03	1.016E+04
	40	-1.054E+04	-1.251E+03	-1.073E+03	-1.235E+03	-8.474E+03	1.768E+04
10	106	2.256E+02	-2.969E+02	3.049E+02	-1.949E+03	-4.116E+03	-2.808E+03
	150	2.181E+02	-2.823E+02	2.965E+02	-1.949E+03	-6.205E+02	5.584E+02
11	150	-2.964E+02	2.824E+02	-2.181E+02	-5.583E+02	6.202E+02	1.949E+03
	154	-2.793E+02	2.526E+02	-2.030E+02	-5.583E+02	-2.472E+03	-1.980E+03
12	104	-8.090E+01	-2.098E+02	-4.393E+01	-1.362E+03	1.101E+03	-1.926E+03
	148	-8.834E+01	-1.952E+02	-5.235E+01	-1.362E+03	5.410E+02	4.275E+02
13	148	5.238E+01	1.951E+02	8.837E+01	-4.276E+02	-5.411E+02	1.362E+03
	152	6.951E+01	1.653E+02	1.035E+02	-4.276E+02	8.680E+02	-1.285E+03
14	105	-3.850E+02	2.022E+02	2.149E+02	1.302E+03	2.529E+02	2.332E+03
	149	-3.776E+02	1.876E+02	2.065E+02	1.302E+03	2.703E+03	6.582E+01
15	149	-2.065E+02	1.877E+02	-3.776E+02	-6.540E+01	2.702E+03	1.302E+03
	153	-1.893E+02	1.579E+02	-3.624E+02	-6.540E+01	-2.732E+03	-1.236E+03
16	103	4.363E+01	1.252E+02	-5.093E+01	6.389E+02	4.601E+01	1.635E+03
	147	5.107E+01	1.106E+02	-5.935E+01	6.389E+02	-5.950E+02	2.644E+02
17	147	5.937E+01	1.105E+02	5.108E+01	-2.645E+02	-5.951E+02	6.388E+02
	151	7.650E+01	8.075E+01	6.621E+01	-2.645E+02	2.663E+02	-7.660E+02
18	40	1.701E+01	3.900E+02	-4.600E+01	3.982E+02	1.828E+03	1.047E+04
	36	-1.974E+01	4.624E+02	-8.761E+01	3.982E+02	-1.427E+03	-1.030E+04
19	36	-6.231E+03	-7.962E+02	-5.710E+02	-2.075E+03	3.593E+01	1.320E+04
	18	-6.216E+03	-7.876E+02	-5.634E+02	-2.075E+03	-5.278E+03	2.062E+04
20	40	-1.093E+04	-1.281E+03	-1.041E+03	-3.024E+03	-3.173E+03	2.615E+04
	23	-1.093E+04	-1.276E+03	-1.037E+03	-3.024E+03	-7.952E+03	3.203E+04
21	18	-6.254E+03	4.379E+02	5.189E+02	4.937E+02	-5.122E+03	2.075E+04
	19	-6.237E+03	4.432E+02	5.236E+02	4.937E+02	-2.948E+02	1.667E+04
22	23	-1.098E+04	8.724E+02	8.604E+02	9.993E+02	-7.753E+03	3.220E+04
	24	-1.097E+04	8.750E+02	8.627E+02	9.993E+02	-3.879E+03	2.827E+04
23	24	-1.714E+02	-2.388E+02	-1.074E+02	-9.807E+01	2.618E+03	-4.920E+03
	19	-1.945E+02	-1.546E+02	-1.335E+02	-9.807E+01	-3.252E+03	4.664E+03

STATIC ANALYSIS
CDF CMEX UPGRADE: FRAME ANALYSIS
LOADING 1 - FULL LOAD WITH BASE AND 7 CHAMBERS

BEAM	JT.	FORCES			MOMENTS		
		X	Y	Z	X	Y	Z
24	19	-6.392E+03	5.761E+02	7.176E+02	-3.161E+03	-1.077E+03	1.320E+04
	102	-6.385E+03	5.784E+02	7.196E+02	-3.161E+03	1.707E+03	1.097E+04
25	24	-1.073E+04	7.680E+02	6.916E+02	-1.941E+03	-4.075E+03	2.242E+04
	101	-1.072E+04	7.709E+02	6.942E+02	-1.941E+03	-6.107E+02	1.858E+04
26	293	-5.784E+03	-1.103E+03	-8.522E+02	4.348E+02	8.393E+03	-5.205E+03
	100	-5.765E+03	-1.097E+03	-8.471E+02	4.348E+02	-2.023E+02	5.920E+03
27	294	-9.751E+03	-1.360E+03	-1.092E+03	-3.121E+03	1.000E+04	7.762E+03
	99	-9.738E+03	-1.356E+03	-1.088E+03	-3.121E+03	2.104E+03	1.760E+04
28	100	-5.637E+03	-1.268E+03	-8.194E+02	-1.050E+03	-1.112E+03	4.903E+03
	22	-5.637E+03	-1.268E+03	-8.194E+02	-1.050E+03	-3.687E+03	8.888E+03
29	99	-9.468E+03	-1.410E+03	-1.105E+03	-3.028E+03	5.298E+03	1.631E+04
	26	-9.468E+03	-1.410E+03	-1.105E+03	-3.028E+03	-1.347E+03	2.479E+04
30	102	1.111E+02	-3.920E+02	3.189E+02	-2.691E+03	-3.746E+03	-4.330E+03
	142	1.064E+02	-3.750E+02	3.136E+02	-2.691E+03	-6.901E+01	1.275E+02
31	142	-3.136E+02	3.750E+02	-1.064E+02	-1.276E+02	6.883E+01	2.691E+03
	146	-3.028E+02	3.403E+02	-9.689E+01	-1.276E+02	-1.424E+03	-2.562E+03
32	100	3.834E+01	-1.239E+02	-1.589E+02	-1.015E+03	1.478E+03	-9.075E+02
	140	3.366E+01	-1.069E+02	-1.642E+02	-1.015E+03	-4.002E+02	4.339E+02
33	140	1.642E+02	1.069E+02	-3.365E+01	-4.339E+02	4.002E+02	1.015E+03
	144	1.750E+02	7.217E+01	-2.414E+01	-4.339E+02	-2.420E+01	-2.996E+02
34	101	-1.958E+02	1.858E+02	1.405E+02	1.287E+03	-3.154E+02	1.578E+03
	141	-1.911E+02	1.688E+02	1.352E+02	1.287E+03	1.287E+03	-4.829E+02
35	141	-1.352E+02	1.688E+02	-1.911E+02	4.829E+02	1.287E+03	1.287E+03
	145	-1.244E+02	1.341E+02	-1.816E+02	4.829E+02	-1.450E+03	-9.381E+02
36	99	1.659E+01	2.697E+02	-5.382E+01	1.291E+03	9.269E+01	3.194E+03
	139	2.126E+01	2.527E+02	-5.911E+01	1.291E+03	-5.637E+02	1.575E+02
37	139	5.913E+01	2.527E+02	2.128E+01	-1.576E+02	-5.638E+02	1.291E+03
	143	6.990E+01	2.180E+02	3.079E+01	-1.576E+02	-1.814E+02	-2.165E+03
38	26	-2.256E+02	2.974E+02	-8.551E+01	1.065E+03	3.140E+03	8.063E+03
	22	-2.487E+02	3.817E+02	-1.117E+02	1.065E+03	-1.665E+03	-8.486E+03

STATIC ANALYSIS
CDF CMEX UPGRADE: FRAME ANALYSIS
LOADING 1 - FULL LOAD WITH BASE AND 7 CHAMBERS

BEAM	JT.	FORCES			MOMENTS		
		X	Y	Z	X	Y	Z
39	22	-5.260E+03	-1.141E+03	-5.573E+02	-3.508E+03	1.085E+03	1.511E+04
	1	-5.243E+03	-1.135E+03	-5.526E+02	-3.508E+03	-4.113E+03	2.577E+04
40	26	-9.768E+03	-1.487E+03	-1.323E+03	-6.235E+03	5.272E+02	3.513E+04
	7	-9.759E+03	-1.484E+03	-1.321E+03	-6.235E+03	-5.552E+03	4.196E+04
41	1	-5.379E+03	-9.326E+01	3.679E+02	2.076E+02	-3.789E+03	2.606E+04
	2	-5.361E+03	-9.144E+01	3.695E+02	2.076E+02	-3.731E+02	2.691E+04
42	7	-9.942E+03	4.443E+02	3.828E+02	3.968E+01	-4.946E+03	4.250E+04
	8	-9.933E+03	4.452E+02	3.836E+02	3.968E+01	-3.223E+03	4.050E+04
43	8	-4.339E+01	-6.983E+01	-1.505E+02	4.984E+02	3.534E+03	-6.628E+02
	2	-5.127E+01	2.058E+01	-1.595E+02	4.984E+02	-4.019E+03	5.372E+02
44	2	-5.340E+03	6.969E+01	4.222E+02	-4.282E+03	1.923E+03	2.649E+04
	98	-5.333E+03	7.045E+01	4.229E+02	-4.282E+03	3.560E+03	2.622E+04
45	8	-9.863E+03	3.012E+02	3.459E+02	-3.925E+03	-1.542E+03	3.839E+04
	97	-9.853E+03	3.021E+02	3.467E+02	-3.925E+03	1.898E+02	3.688E+04
46	291	-5.117E+03	-9.334E+02	-5.028E+02	7.055E+01	3.745E+03	1.653E+04
	96	-5.097E+03	-9.314E+02	-5.010E+02	7.055E+01	-1.333E+03	2.596E+04
47	292	-8.288E+03	-1.255E+03	-6.079E+02	-4.701E+03	4.099E+03	3.353E+04
	95	-8.273E+03	-1.253E+03	-6.066E+02	-4.701E+03	-2.991E+02	4.261E+04
48	96	-4.942E+03	-1.215E+03	-5.465E+02	-3.211E+03	-2.670E+03	2.511E+04
	5	-4.942E+03	-1.215E+03	-5.465E+02	-3.211E+03	-4.386E+03	2.893E+04
49	95	-8.115E+03	-1.285E+03	-7.370E+02	-5.603E+03	1.624E+03	4.261E+04
	10	-8.115E+03	-1.285E+03	-7.370E+02	-5.603E+03	-2.810E+03	5.035E+04
50	98	1.434E+02	-4.249E+02	3.307E+02	-3.632E+03	-4.142E+03	-4.398E+03
	134	1.418E+02	-4.066E+02	3.289E+02	-3.632E+03	-3.076E+02	4.351E+02
51	134	-3.289E+02	4.066E+02	-1.418E+02	-4.350E+02	3.074E+02	3.632E+03
	138	-3.252E+02	3.694E+02	-1.386E+02	-4.350E+02	-1.752E+03	-2.067E+03
52	96	-4.495E+01	-1.546E+02	-2.829E+02	-8.456E+02	3.279E+03	-1.337E+03
	132	-4.655E+01	-1.363E+02	-2.848E+02	-8.456E+02	-2.100E+01	3.541E+02
53	132	2.848E+02	1.363E+02	4.655E+01	-3.541E+02	2.097E+01	8.456E+02
	136	2.884E+02	9.907E+01	4.979E+01	-3.541E+02	7.285E+02	-8.830E+02

STATIC ANALYSIS
CDF CMEX UPGRADE: FRAME ANALYSIS
LOADING 1 - FULL LOAD WITH BASE AND 7 CHAMBERS

BEAM	JT.	FORCES			MOMENTS		
		X	Y	Z	X	Y	Z
54	97	-1.913E+02	3.033E+02	3.929E+01	2.270E+03	6.850E+02	3.120E+03
	133	-1.897E+02	2.850E+02	3.749E+01	2.270E+03	1.131E+03	-2.997E+02
55	133	-3.744E+01	2.851E+02	-1.896E+02	2.998E+02	1.131E+03	2.270E+03
	137	-3.377E+01	2.478E+02	-1.864E+02	2.998E+02	-1.630E+03	-1.643E+03
56	95	1.367E+02	1.598E+02	-3.913E+01	-4.356E-01	-9.352E+02	1.918E+03
	131	1.383E+02	1.415E+02	-4.093E+01	-4.356E-01	-1.401E+03	1.672E+02
57	131	4.095E+01	1.414E+02	1.383E+02	-1.674E+02	-1.401E+03	-6.205E-01
	135	4.462E+01	1.042E+02	1.415E+02	-1.674E+02	6.540E+02	-1.805E+03
58	10	-1.734E+02	2.258E+02	-9.369E+01	1.579E+03	3.448E+03	6.415E+03
	5	-1.813E+02	3.162E+02	-1.026E+02	1.579E+03	-1.334E+03	-6.793E+03
59	5	-4.625E+03	-1.113E+03	-3.661E+02	-5.708E+03	1.058E+02	3.404E+04
	6	-4.607E+03	-1.112E+03	-3.645E+02	-5.708E+03	-3.280E+03	4.435E+04
60	10	-8.341E+03	-1.381E+03	-9.124E+02	-9.223E+03	-2.519E+02	6.052E+04
	11	-8.332E+03	-1.381E+03	-9.117E+02	-9.223E+03	-4.353E+03	6.673E+04
61	6	-4.728E+03	-1.921E+02	4.475E+02	1.435E+03	-2.859E+03	4.472E+04
	46	-4.709E+03	-1.940E+02	4.459E+02	1.435E+03	1.326E+03	4.653E+04
62	11	-8.473E+03	2.612E+02	5.382E+02	1.571E+03	-3.605E+03	6.739E+04
	51	-8.464E+03	2.603E+02	5.374E+02	1.571E+03	-1.132E+03	6.619E+04
63	51	-1.989E+02	1.025E+01	-2.211E+02	3.376E+01	5.132E+03	1.106E+03
	46	-1.911E+02	1.007E+02	-2.122E+02	3.376E+01	-5.427E+03	-1.596E+03
64	46	-4.609E+03	2.060E+01	6.390E+02	-4.607E+03	7.020E+03	4.710E+04
	94	-4.601E+03	1.983E+01	6.383E+02	-4.607E+03	9.495E+03	4.702E+04
65	51	-8.473E+03	5.196E+01	3.498E+02	-4.136E+03	3.107E+03	6.513E+04
	93	-8.463E+03	5.098E+01	3.490E+02	-4.136E+03	4.854E+03	6.487E+04
66	289	-6.683E+02	5.119E+02	3.270E+02	1.203E+03	-7.153E+03	8.253E+04
	92	-6.481E+02	5.099E+02	3.253E+02	1.203E+03	-3.853E+03	7.736E+04
67	290	-3.557E+03	4.416E+02	1.576E+02	-1.638E+03	-6.678E+03	1.079E+05
	91	-3.542E+03	4.401E+02	1.564E+02	-1.638E+03	-5.541E+03	1.047E+05
68	92	-5.280E+02	2.500E+02	2.111E+02	-2.269E+03	-5.128E+03	7.796E+04
	49	-5.280E+02	2.500E+02	2.111E+02	-2.269E+03	-4.464E+03	7.718E+04

STATIC ANALYSIS
CDF CMEX UPGRADE: FRAME ANALYSIS
LOADING 1 - FULL LOAD WITH BASE AND 7 CHAMBERS

BEAM	JT.	FORCES			MOMENTS		
		X	Y	Z	X	Y	Z
69	91	-3.611E+03	3.226E+02	-3.757E+01	-2.113E+03	-6.326E+03	1.068E+05
	53	-3.611E+03	3.226E+02	-3.757E+01	-2.113E+03	-6.552E+03	1.048E+05
70	94	1.296E+02	-4.689E+02	1.938E+02	-5.398E+03	-2.524E+03	-4.506E+03
	126	1.312E+02	-4.507E+02	1.956E+02	-5.398E+03	-2.606E+02	8.398E+02
71	126	-1.957E+02	4.506E+02	-1.313E+02	-8.397E+02	2.609E+02	5.398E+03
	130	-1.993E+02	4.134E+02	-1.345E+02	-8.397E+02	-1.691E+03	-9.473E+02
72	92	-1.143E+02	-1.200E+02	-2.599E+02	6.026E+02	3.480E+03	-1.274E+03
	124	-1.127E+02	-1.017E+02	-2.581E+02	6.026E+02	4.683E+02	1.505E+01
73	124	2.581E+02	1.018E+02	1.127E+02	-1.502E+01	-4.683E+02	-6.025E+02
	128	2.545E+02	6.454E+01	1.094E+02	-1.502E+01	1.163E+03	-1.824E+03
74	93	-1.495E+02	5.220E+02	2.539E+01	5.093E+03	4.126E+02	5.809E+03
	125	-1.511E+02	5.037E+02	2.719E+01	5.093E+03	7.183E+02	-1.535E+02
75	125	-2.726E+01	5.037E+02	-1.512E+02	1.533E+02	7.190E+02	5.093E+03
	129	-3.093E+01	4.665E+02	-1.544E+02	1.533E+02	-1.526E+03	-2.032E+03
76	91	1.936E+02	-6.844E+01	-1.171E+02	-2.113E+03	-4.663E+02	-7.844E+02
	123	1.920E+02	-8.674E+01	-1.153E+02	-2.113E+03	-1.817E+03	1.176E+02
77	123	1.153E+02	-8.670E+01	1.920E+02	-1.172E+02	-1.817E+03	-2.113E+03
	127	1.116E+02	-1.239E+02	1.888E+02	-1.172E+02	9.788E+02	-5.665E+02
78	53	1.327E+02	6.679E+00	-1.327E+02	7.079E+02	4.119E+03	1.263E+03
	49	1.406E+02	9.710E+01	-1.237E+02	7.079E+02	-2.129E+03	-1.265E+03
79	49	-4.308E+02	3.738E+02	7.057E+01	-5.535E+03	-2.044E+03	7.363E+04
	50	-4.123E+02	3.720E+02	6.896E+01	-5.535E+03	-1.398E+03	7.018E+04
80	53	-3.617E+03	1.927E+02	9.753E+01	-6.214E+03	-4.659E+03	1.036E+05
	54	-3.608E+03	1.918E+02	9.675E+01	-6.214E+03	-4.222E+03	1.027E+05
81	50	-3.149E+02	4.434E+02	1.320E+02	6.339E+03	-1.476E+03	7.011E+04
	60	-2.975E+02	4.380E+02	1.272E+02	6.339E+03	-2.624E+02	6.598E+04
82	54	-3.434E+03	8.812E+02	7.056E+02	1.064E+04	-4.656E+03	1.023E+05
	65	-3.425E+03	8.785E+02	7.033E+02	1.064E+04	-1.415E+03	9.826E+04
83	65	-5.090E+02	-2.549E+02	-1.809E+02	-2.220E+03	5.273E+03	-5.822E+03
	60	-4.858E+02	-1.707E+02	-1.547E+02	-2.220E+03	-2.905E+03	4.549E+03

STATIC ANALYSIS
CDF CMEX UPGRADE: FRAME ANALYSIS
LOADING 1 - FULL LOAD WITH BASE AND 7 CHAMBERS

BEAM	JT.	FORCES			MOMENTS		
		X	Y	Z	X	Y	Z
84	60	-4.677E+02	5.930E+02	6.133E+02	3.018E+03	-2.737E+03	6.459E+04
	90	-4.605E+02	5.908E+02	6.113E+02	3.018E+03	-3.640E+02	6.229E+04
85	65	-3.169E+03	7.006E+02	1.971E+02	4.901E+03	-4.861E+03	9.050E+04
	89	-3.160E+03	6.978E+02	1.945E+02	4.901E+03	-3.882E+03	8.701E+04
86	295	-8.249E+01	5.580E+02	3.989E+02	1.174E+03	-1.356E+03	5.325E+04
	88	-6.369E+01	5.521E+02	3.938E+02	1.174E+03	2.654E+03	4.763E+04
87	296	-2.724E+03	8.161E+02	-2.413E+01	1.528E+03	1.995E+03	7.628E+04
	87	-2.710E+03	8.120E+02	-2.782E+01	1.528E+03	1.807E+03	7.039E+04
88	88	-3.041E+01	3.980E+02	5.711E+02	9.917E+02	2.214E+03	4.851E+04
	63	-3.041E+01	3.980E+02	5.711E+02	9.917E+02	4.009E+03	4.726E+04
89	87	-2.576E+03	5.211E+02	1.913E+01	4.540E+03	2.975E+03	7.024E+04
	67	-2.576E+03	5.211E+02	1.913E+01	4.540E+03	3.091E+03	6.711E+04
90	90	-2.109E+02	-3.729E+02	-3.109E+01	-3.990E+03	1.741E+03	-4.056E+03
	118	-2.062E+02	-3.558E+02	-2.579E+01	-3.990E+03	1.410E+03	1.791E+02
91	118	2.579E+01	3.558E+02	2.062E+02	-1.792E+02	-1.410E+03	3.990E+03
	122	1.503E+01	3.211E+02	1.967E+02	-1.792E+02	1.549E+03	-9.817E+02
92	88	1.772E+02	-3.139E+01	-1.543E+02	8.806E+02	2.774E+02	-4.376E+02
	116	1.819E+02	-1.434E+01	-1.490E+02	8.806E+02	-1.485E+03	-1.718E+02
93	116	1.490E+02	1.434E+01	-1.819E+02	1.718E+02	1.485E+03	-8.806E+02
	120	1.382E+02	-2.035E+01	-1.914E+02	1.718E+02	-1.256E+03	-8.364E+02
94	89	2.179E+02	4.327E+02	1.192E+02	4.749E+03	-3.021E+03	4.112E+03
	117	2.133E+02	4.156E+02	1.245E+02	4.749E+03	-1.604E+03	-8.184E+02
95	117	-1.245E+02	4.156E+02	2.132E+02	8.185E+02	-1.604E+03	4.749E+03
	121	-1.353E+02	3.809E+02	2.037E+02	8.185E+02	1.458E+03	-1.101E+03
96	87	-4.745E+01	1.346E+02	-2.903E+02	1.426E+02	3.027E+03	1.168E+03
	115	-5.213E+01	1.176E+02	-2.850E+02	1.426E+02	-3.178E+02	-2.986E+02
97	115	2.850E+02	1.176E+02	-5.210E+01	2.986E+02	-3.178E+02	1.427E+02
	119	2.743E+02	8.290E+01	-6.161E+01	2.986E+02	-1.153E+03	-1.330E+03
98	67	4.080E+02	-3.138E+02	-1.402E+02	-7.232E+02	4.313E+03	-7.032E+03
	63	4.311E+02	-2.295E+02	-1.141E+02	-7.232E+02	-1.882E+03	6.205E+03

STATIC ANALYSIS
CDF CMEX UPGRADE: FRAME ANALYSIS
LOADING 1 - FULL LOAD WITH BASE AND 7 CHAMBERS

BEAM	JT.	FORCES			MOMENTS		
		X	Y	Z	X	Y	Z
99	63	-2.617E+02	5.119E+02	1.398E+02	-1.788E+03	-1.306E+03	4.454E+04
	64	-2.445E+02	5.066E+02	1.351E+02	-1.788E+03	-3.309E+01	3.982E+04
100	67	-2.262E+03	3.813E+02	4.276E+02	6.894E+02	-3.067E+03	6.262E+04
	68	-2.254E+03	3.787E+02	4.253E+02	6.894E+02	-1.149E+03	6.091E+04
101	64	-1.153E+02	5.419E+02	1.663E+02	5.061E+03	-3.547E+02	3.954E+04
	74	-1.004E+02	5.334E+02	1.588E+02	5.061E+03	1.168E+03	3.450E+04
102	68	-2.032E+03	7.991E+02	7.966E+02	1.082E+04	-2.278E+03	5.991E+04
	79	-2.025E+03	7.949E+02	7.928E+02	1.082E+04	1.377E+03	5.625E+04
103	79	-4.936E+02	-3.280E+02	-1.206E+02	-2.126E+03	4.302E+03	-7.889E+03
	74	-4.568E+02	-2.557E+02	-7.903E+01	-2.126E+03	-5.630E+02	6.334E+03
104	74	-3.553E+02	6.126E+02	6.157E+02	4.291E+03	-3.227E+03	3.261E+04
	86	-3.491E+02	6.090E+02	6.126E+02	4.291E+03	-8.485E+02	3.024E+04
105	79	-1.695E+03	6.766E+02	3.013E+02	6.215E+03	-3.679E+03	4.896E+04
	85	-1.687E+03	6.720E+02	2.973E+02	6.215E+03	-2.182E+03	4.559E+04
106	288	-8.908E+01	4.750E+02	3.757E+02	1.205E+03	-4.770E+02	2.336E+04
	84	-7.295E+01	4.658E+02	3.675E+02	1.205E+03	3.281E+03	1.860E+04
107	287	-1.387E+03	7.776E+02	-6.129E+00	2.452E+03	2.219E+03	3.666E+04
	83	-1.376E+03	7.709E+02	-1.200E+01	2.452E+03	2.154E+03	3.105E+04
108	84	6.046E-01	3.044E+02	5.442E+02	1.090E+03	2.431E+03	1.864E+04
	77	6.046E-01	3.044E+02	5.442E+02	1.090E+03	4.143E+03	1.768E+04
109	83	-1.167E+03	4.215E+02	-1.384E+01	5.825E+03	4.136E+03	2.970E+04
	81	-1.167E+03	4.215E+02	-1.384E+01	5.825E+03	4.053E+03	2.716E+04
110	86	-2.346E+02	-2.556E+02	-1.313E+02	-2.262E+03	2.689E+03	-2.915E+03
	110	-2.271E+02	-2.410E+02	-1.229E+02	-2.262E+03	1.212E+03	-2.863E+01
111	110	1.228E+02	2.410E+02	2.271E+02	2.895E+01	-1.212E+03	2.262E+03
	114	1.057E+02	2.112E+02	2.120E+02	2.895E+01	2.013E+03	-1.059E+03
112	84	1.767E+02	-7.263E+01	-1.614E+02	4.079E+01	1.364E+02	-8.490E+02
	108	1.842E+02	-5.799E+01	-1.530E+02	4.079E+01	-1.691E+03	-8.986E+01
113	108	1.530E+02	5.799E+01	-1.842E+02	8.992E+01	1.691E+03	-4.073E+01
	112	1.359E+02	2.821E+01	-1.993E+02	8.992E+01	-1.125E+03	-6.737E+02

STATIC ANALYSIS
CDF CMEX UPGRADE: FRAME ANALYSIS
LOADING 1 - FULL LOAD WITH BASE AND 7 CHAMBERS

BEAM	JT.	FORCES			MOMENTS		
		X	Y	Z	X	Y	Z
114	85	3.020E+02	2.971E+02	1.073E+02	3.211E+03	-3.440E+03	2.648E+03
	109	2.945E+02	2.824E+02	1.157E+02	3.211E+03	-2.145E+03	-7.204E+02
115	109	-1.156E+02	2.824E+02	2.945E+02	7.206E+02	-2.145E+03	3.211E+03
	113	-1.328E+02	2.526E+02	2.794E+02	7.206E+02	2.070E+03	-7.185E+02
116	83	1.703E+00	2.091E+02	-3.492E+02	1.355E+03	3.376E+03	1.982E+03
	107	-5.734E+00	1.944E+02	-3.408E+02	1.355E+03	-6.354E+02	-3.635E+02
117	107	3.408E+02	1.944E+02	-5.657E+00	3.632E+02	-6.354E+02	1.355E+03
	111	3.237E+02	1.646E+02	-2.079E+01	3.632E+02	-8.297E+02	-1.282E+03
118	81	3.824E+02	-2.837E+02	-9.648E+01	-1.037E+03	3.487E+03	-6.531E+03
	77	4.191E+02	-2.114E+02	-5.486E+01	-1.037E+03	-2.005E+02	5.532E+03
119	77	-2.116E+02	3.592E+02	1.250E+02	2.201E+02	-6.992E+02	1.606E+04
	78	-1.968E+02	3.507E+02	1.175E+02	2.201E+02	4.247E+02	1.277E+04
120	81	-8.831E+02	3.251E+02	3.685E+02	3.097E+03	-1.450E+03	2.268E+04
	82	-8.759E+02	3.209E+02	3.649E+02	3.097E+03	2.014E+02	2.122E+04
121	111	1.517E+01	-1.526E+02	-3.298E+02	1.309E+03	7.989E+02	-3.325E+02
	172	1.523E+01	-1.525E+02	-3.298E+02	1.309E+03	-1.306E+04	6.076E+03
122	112	-1.982E+02	2.972E+01	-1.371E+02	-7.117E+02	-1.104E+03	-4.724E+01
	172	-1.983E+02	2.962E+01	-1.370E+02	-7.117E+02	-6.863E+03	-1.294E+03
123	113	-2.760E+02	-2.543E+02	1.367E+02	7.462E+02	-2.071E+03	-6.892E+02
	171	-2.759E+02	-2.542E+02	1.367E+02	7.462E+02	3.669E+03	9.988E+03
124	114	2.091E+02	2.156E+02	-1.025E+02	-1.086E+03	1.999E+03	1.011E+00
	171	2.091E+02	2.155E+02	-1.024E+02	-1.086E+03	-2.304E+03	-9.049E+03
125	119	5.875E+01	-7.428E+01	-2.773E+02	1.368E+03	1.117E+03	-2.554E+02
	170	5.879E+01	-7.416E+01	-2.773E+02	1.368E+03	-1.053E+04	2.863E+03
126	120	-1.920E+02	-1.913E+01	-1.376E+02	-8.789E+02	-1.233E+03	-1.242E+02
	170	-1.920E+02	-1.925E+01	-1.375E+02	-8.789E+02	-7.012E+03	6.820E+02
127	121	-1.986E+02	-3.815E+02	1.411E+02	1.120E+03	-1.456E+03	-7.966E+02
	169	-1.986E+02	-3.814E+02	1.411E+02	1.120E+03	4.469E+03	1.522E+04
128	122	1.924E+02	3.239E+02	-1.014E+01	-1.002E+03	1.533E+03	2.024E+02
	169	1.924E+02	3.238E+02	-1.010E+01	-1.002E+03	1.108E+03	-1.340E+04

STATIC ANALYSIS
 CDF. CMEX UPGRADE: FRAME ANALYSIS
 LOADING 1 - FULL LOAD WITH BASE AND 7 CHAMBERS

BEAM	JT.	FORCES			MOMENTS		
		X	Y	Z	X	Y	Z
129	127	-1.844E+02	1.496E+02	-8.413E+01	5.325E+02	-1.001E+03	-7.922E+01
	168	-1.844E+02	1.497E+02	-8.409E+01	5.325E+02	-4.535E+03	-6.366E+03
130	128	1.116E+02	5.084E+01	-2.566E+02	-1.783E+03	1.224E+03	-3.247E+01
	168	1.115E+02	5.071E+01	-2.566E+02	-1.783E+03	-9.557E+03	-2.166E+03
131	129	1.606E+02	-4.639E+02	3.792E+01	2.011E+03	1.550E+03	-1.766E+02
	167	1.606E+02	-4.637E+02	3.793E+01	2.011E+03	3.143E+03	1.930E+04
132	130	-1.400E+02	4.085E+02	2.055E+02	-9.247E+02	-1.716E+03	8.138E+02
	167	-1.400E+02	4.084E+02	2.055E+02	-9.247E+02	6.915E+03	-1.634E+04
133	135	-1.450E+02	-9.754E+01	-4.843E+01	1.781E+03	-7.211E+02	1.398E+02
	166	-1.450E+02	-9.741E+01	-4.843E+01	1.781E+03	-2.756E+03	4.235E+03
134	136	5.313E+01	8.610E+01	-2.920E+02	-8.576E+02	7.713E+02	3.246E+02
	166	5.314E+01	8.597E+01	-2.920E+02	-8.576E+02	-1.150E+04	-3.290E+03
135	137	1.897E+02	-2.448E+02	3.753E+01	1.621E+03	1.648E+03	-3.250E+02
	165	1.897E+02	-2.446E+02	3.751E+01	1.621E+03	3.223E+03	9.950E+03
136	138	-1.435E+02	3.625E+02	3.308E+02	-2.043E+03	-1.786E+03	4.079E+02
	165	-1.435E+02	3.624E+02	3.308E+02	-2.043E+03	1.210E+04	-1.481E+04
137	143	-3.821E+01	-2.140E+02	-7.822E+01	2.170E+03	1.012E+02	1.617E+02
	164	-3.824E+01	-2.138E+02	-7.825E+01	2.170E+03	-3.186E+03	9.148E+03
138	144	-2.166E+01	6.614E+01	-1.777E+02	-3.002E+02	2.827E+00	4.342E+02
	164	-2.163E+01	6.602E+01	-1.777E+02	-3.002E+02	-7.462E+03	-2.342E+03
139	145	1.834E+02	-1.298E+02	1.264E+02	9.185E+02	1.455E+03	-5.051E+02
	163	1.833E+02	-1.296E+02	1.264E+02	9.185E+02	6.762E+03	4.941E+03
140	146	-1.015E+02	3.343E+02	3.080E+02	-2.543E+03	-1.460E+03	1.054E+02
	163	-1.014E+02	3.342E+02	3.079E+02	-2.543E+03	1.147E+04	-1.393E+04
141	151	-6.892E+01	-7.545E+01	-7.946E+01	7.565E+02	-3.022E+02	2.531E+02
	162	-6.897E+01	-7.534E+01	-7.952E+01	7.565E+02	-3.642E+03	3.421E+03
142	152	1.091E+02	1.589E+02	-7.569E+01	-1.255E+03	9.270E+02	3.921E+02
	162	1.091E+02	1.588E+02	-7.574E+01	-1.255E+03	-2.254E+03	-6.283E+03
143	153	3.645E+02	-1.501E+02	1.917E+02	1.199E+03	2.749E+03	2.328E+01
	161	3.645E+02	-1.500E+02	1.916E+02	1.199E+03	1.080E+04	6.323E+03

STATIC ANALYSIS
CDF CMEX UPGRADE: FRAME ANALYSIS
LOADING 1 - FULL LOAD WITH BASE AND 7 CHAMBERS

BEAM	JT.	FORCES			MOMENTS		
		X	Y	Z	X	Y	Z
144	154	-2.064E+02	2.455E+02	2.831E+02	-1.946E+03	-2.507E+03	5.197E+02
	161	-2.063E+02	2.454E+02	2.830E+02	-1.946E+03	9.379E+03	-9.788E+03
145	160	-4.104E+02	-7.253E+02	1.135E+02	1.428E+03	-4.795E+02	-1.515E+03
	161	-4.104E+02	-7.253E+02	1.135E+02	1.428E+03	4.859E+02	4.651E+03
146	160	2.458E+02	-2.220E+02	-3.055E+01	1.428E+03	-4.795E+02	1.515E+03
	162	2.459E+02	-2.220E+02	-3.055E+01	1.428E+03	-7.392E+02	3.403E+03
147	159	-4.741E+02	-5.045E+02	-7.411E+01	-4.618E+03	5.170E+03	4.257E+03
	163	-4.741E+02	-5.045E+02	-7.411E+01	-4.618E+03	4.540E+03	8.545E+03
148	159	2.899E+02	-1.880E+02	1.571E+02	-4.617E+03	5.170E+03	-4.257E+03
	164	2.899E+02	-1.880E+02	1.571E+02	-4.617E+03	6.506E+03	-2.658E+03
149	158	-6.168E+02	-4.843E+02	5.907E+00	-8.855E+03	1.346E+03	1.848E+03
	165	-6.169E+02	-4.843E+02	5.907E+00	-8.855E+03	1.396E+03	5.965E+03
150	158	2.030E+02	-3.763E+02	7.709E+01	-8.855E+03	1.347E+03	-1.848E+03
	166	2.031E+02	-3.763E+02	7.709E+01	-8.855E+03	2.002E+03	1.351E+03
151	157	-8.796E+02	-3.640E+02	6.414E+01	-3.855E+03	-4.633E+03	-2.855E+03
	167	-8.796E+02	-3.640E+02	6.414E+01	-3.855E+03	-4.087E+03	2.390E+02
152	157	-5.965E+01	-4.717E+02	1.886E+01	-3.855E+03	-4.632E+03	2.855E+03
	168	-5.962E+01	-4.718E+02	1.886E+01	-3.855E+03	-4.472E+03	6.865E+03
153	156	-7.018E+02	1.749E+02	-3.797E+02	3.304E+03	3.874E+02	1.868E+03
	169	-7.018E+02	1.749E+02	-3.797E+02	3.304E+03	-2.840E+03	3.814E+02
154	156	6.227E+01	-1.415E+02	4.627E+02	3.305E+03	3.870E+02	-1.868E+03
	170	6.229E+01	-1.415E+02	4.627E+02	3.305E+03	4.320E+03	-6.655E+02
155	155	-4.636E+02	3.048E+02	-3.862E+02	5.933E+03	1.247E+03	3.342E+03
	171	-4.636E+02	3.048E+02	-3.862E+02	5.933E+03	-2.036E+03	7.510E+02
156	155	1.926E+02	-1.985E+02	4.692E+02	5.933E+03	1.246E+03	-3.342E+03
	172	1.926E+02	-1.985E+02	4.692E+02	5.933E+03	5.235E+03	-1.655E+03
157	82	-7.218E+02	4.782E+02	5.038E+02	6.658E+03	-7.585E+02	2.038E+04
	173	-7.162E+02	4.727E+02	4.989E+02	6.658E+03	1.547E+03	1.819E+04
158	78	-1.022E+02	3.801E+02	1.435E+02	2.478E+03	1.591E+02	1.254E+04
	174	-9.070E+01	3.689E+02	1.336E+02	2.478E+03	1.457E+03	9.032E+03

STATIC ANALYSIS
CDF CMEX UPGRADE: FRAME ANALYSIS
LOADING 1 - FULL LOAD WITH BASE AND 7 CHAMBERS

BEAM	JT.	FORCES			MOMENTS		
		X	Y	Z	X	Y	Z
159	173	-2.656E+02	-2.140E+02	-6.844E+01	-1.242E+03	3.118E+03	-5.103E+03
	174	-2.177E+02	-1.584E+02	-1.422E+01	-1.242E+03	1.104E+03	3.970E+03
160	285	-3.305E+02	4.122E+02	-5.346E+01	9.595E+02	1.856E+03	7.083E+03
	181	-3.216E+02	4.035E+02	-6.111E+01	9.595E+02	1.442E+03	4.129E+03
161	286	-8.249E+01	2.145E+02	2.008E+02	8.715E+02	2.792E+01	2.701E+03
	182	-7.011E+01	2.024E+02	1.901E+02	8.715E+02	2.004E+03	5.939E+02
162	181	-1.180E+02	8.629E+01	-2.109E+02	2.945E+03	3.514E+03	2.501E+03
	175	-1.180E+02	8.629E+01	-2.109E+02	2.945E+03	2.246E+03	1.983E+03
163	182	4.551E+01	-1.557E+01	2.734E+02	-2.988E+02	7.713E+02	-9.196E+01
	176	4.551E+01	-1.557E+01	2.734E+02	-2.988E+02	1.633E+03	-4.287E+01
164	175	-5.509E+00	5.384E+00	4.755E+00	-1.455E-11	-1.071E+01	1.212E+01
	177	-4.120E-08	3.593E-11	-1.614E-11	-1.455E-11	2.668E-08	-3.035E-08
165	176	-1.134E+01	1.108E+01	9.787E+00	7.276E-12	-4.535E+01	5.134E+01
	178	-4.602E-08	-1.137E-11	-4.092E-12	7.276E-12	6.126E-08	-6.935E-08
166	175	2.157E+02	-1.125E+02	-8.093E+01	-7.401E+02	3.655E+03	-2.363E+03
	176	2.636E+02	-5.697E+01	-2.669E+01	-7.401E+02	1.032E+03	1.765E+03
167	179	2.800E+02	1.630E+02	1.571E+01	1.624E+03	-2.340E+03	1.419E+03
	183	2.703E+02	1.517E+02	2.669E+01	1.624E+03	-2.093E+03	-4.108E+02
168	180	-1.435E+02	-1.582E+02	-1.605E+02	-1.062E+03	2.190E+03	-1.787E+03
	184	-1.338E+02	-1.469E+02	-1.495E+02	-1.062E+03	3.877E+02	-1.353E+01
169	181	1.498E+02	2.038E+02	-3.172E+02	1.626E+03	1.985E+03	2.074E+03
	185	1.401E+02	1.925E+02	-3.062E+02	1.626E+03	-1.640E+03	-2.301E+02
170	182	8.327E+01	-1.157E+02	-2.180E+02	-6.855E+02	1.170E+03	-1.232E+03
	186	9.296E+01	-1.044E+02	-2.071E+02	-6.855E+02	-1.300E+03	4.719E+01
171	183	-2.657E+01	1.516E+02	2.704E+02	4.100E+02	-2.094E+03	1.623E+03
	187	-4.890E+01	1.288E+02	2.506E+02	4.100E+02	1.733E+03	-4.361E+02
172	185	3.063E+02	1.923E+02	1.402E+02	2.291E+02	-1.641E+03	1.626E+03
	189	2.840E+02	1.695E+02	1.205E+02	2.291E+02	2.745E+02	-1.031E+03
173	186	2.073E+02	1.045E+02	-9.230E+01	-4.979E+01	1.300E+03	6.851E+02
	190	1.850E+02	8.156E+01	-1.121E+02	-4.979E+01	-2.048E+02	-6.846E+02

STATIC ANALYSIS
CDF CMEX UPGRADE: FRAME ANALYSIS
LOADING 1 - FULL LOAD WITH BASE AND 7 CHAMBERS

BEAM	JT.	FORCES			MOMENTS		
		X	Y	Z	X	Y	Z
174	184	1.497E+02	1.469E+02	1.337E+02	1.407E+01	-3.879E+02	1.062E+03
	188	1.273E+02	1.240E+02	1.140E+02	1.407E+01	1.432E+03	-9.289E+02
175	187	-2.488E+02	-1.314E+02	5.093E+01	4.597E+02	-1.733E+03	-3.833E+02
	191	-2.488E+02	-1.313E+02	5.101E+01	4.597E+02	4.076E+02	5.132E+03
176	188	1.124E+02	1.274E+02	-1.254E+02	-9.478E+02	1.420E+03	6.861E+00
	191	1.123E+02	1.273E+02	-1.253E+02	-9.478E+02	-3.843E+03	-5.342E+03
177	189	-1.262E+02	-1.542E+02	-2.901E+02	1.022E+03	-3.004E+02	-2.409E+02
	192	-1.262E+02	-1.541E+02	-2.900E+02	1.022E+03	-1.249E+04	6.237E+03
178	190	-1.101E+02	7.816E+01	-1.877E+02	-6.909E+02	-1.791E+02	5.966E+01
	192	-1.101E+02	7.809E+01	-1.876E+02	-6.909E+02	-8.072E+03	-3.226E+03
179	192	2.512E+02	-3.560E+02	-3.045E+02	4.235E+03	3.613E+03	7.152E+02
	193	2.511E+02	-3.560E+02	-3.045E+02	4.235E+03	1.025E+03	3.741E+03
180	191	-2.528E+02	2.998E+02	2.215E+02	4.235E+03	-8.577E+02	-1.193E+03
	193	-2.528E+02	2.997E+02	2.215E+02	4.235E+03	1.025E+03	-3.741E+03
233	173	-5.018E+02	4.046E+02	2.336E+02	3.343E+03	-1.638E+03	1.387E+04
	179	-4.956E+02	3.986E+02	2.283E+02	3.343E+03	-4.839E+02	1.187E+04
234	174	-2.490E+02	3.832E+02	3.513E+02	3.543E+03	-1.292E+03	7.642E+03
	180	-2.443E+02	3.785E+02	3.473E+02	3.543E+03	6.215E+01	6.166E+03
260	248	-1.083E+02	7.705E+01	1.745E+01	8.472E+02	-1.463E+03	1.716E+03
	249	-1.083E+02	7.705E+01	1.602E+02	8.472E+02	2.853E+03	-2.027E+03
261	250	2.629E+02	3.462E+02	2.854E+02	1.905E+03	-7.734E+03	7.781E+03
	248	3.505E+02	3.462E+02	2.854E+02	1.905E+03	-1.599E+03	3.390E+02
262	251	-7.879E+02	2.166E+02	3.700E+02	2.323E+03	-8.154E+03	6.559E+03
	249	-7.195E+02	2.166E+02	3.700E+02	2.323E+03	-1.949E+03	2.926E+03
263	250	6.194E+02	-4.321E+03	-4.972E+02	1.558E+04	3.824E+03	1.678E+04
	290	6.194E+02	-4.337E+03	-4.972E+02	1.558E+04	-1.291E+02	5.120E+04
264	251	3.839E+02	-3.421E+03	-5.279E+02	1.530E+04	3.523E+03	1.547E+04
	289	3.839E+02	-3.437E+03	-5.279E+02	1.530E+04	-7.154E+02	4.301E+04
265	252	4.441E+03	9.655E+02	-2.119E+02	-4.406E+03	1.526E+04	3.673E+04
	250	4.584E+03	9.655E+02	-2.119E+02	-4.406E+03	7.851E+03	2.957E+03

STATIC ANALYSIS
CDF CMEX UPGRADE: FRAME ANALYSIS
LOADING 1 - FULL LOAD WITH BASE AND 7 CHAMBERS

BEAM	JT.	FORCES			MOMENTS		
		X	Y	Z	X	Y	Z
266	253	2.471E+03	6.005E+02	-1.579E+02	-3.840E+03	1.342E+04	2.877E+04
	251	2.633E+03	6.005E+02	-1.579E+02	-3.840E+03	7.151E+03	4.925E+03
267	252	-3.027E+02	1.025E+02	9.763E+00	8.647E+02	-1.592E+03	2.341E+03
	253	-3.027E+02	1.025E+02	1.526E+02	8.647E+02	2.350E+03	-2.641E+03
268	254	5.344E+03	1.185E+03	-1.240E+02	-1.499E+03	1.520E+04	5.288E+04
	252	5.398E+03	1.185E+03	-1.240E+02	-1.499E+03	1.356E+04	3.721E+04
269	255	1.110E+03	5.734E+02	-3.626E+01	-1.120E+03	1.261E+04	4.176E+04
	253	1.183E+03	5.734E+02	-3.626E+01	-1.120E+03	1.196E+04	3.146E+04
270	254	-2.099E+03	-9.764E+02	1.978E+02	-1.638E+03	-1.130E+01	-4.270E+03
	292	-2.099E+03	-9.924E+02	1.978E+02	-1.638E+03	1.561E+03	3.556E+03
271	255	-1.666E+03	4.520E+02	8.214E+01	-1.254E+03	2.930E+02	1.190E+02
	291	-1.666E+03	4.358E+02	8.214E+01	-1.254E+03	9.526E+02	-3.446E+03
272	256	6.144E+03	-9.141E+02	7.371E+01	-4.988E+02	1.037E+04	4.195E+03
	254	6.320E+03	-9.141E+02	7.371E+01	-4.988E+02	1.356E+04	4.373E+04
273	257	5.007E+02	-1.093E+03	4.588E+01	-1.003E+03	9.588E+03	2.034E+03
	255	6.577E+02	-1.093E+03	4.588E+01	-1.003E+03	1.136E+04	4.413E+04
274	256	-1.321E-04	6.859E+01	6.725E+00	1.435E+02	-1.033E+03	1.762E+03
	257	-1.321E-04	6.859E+01	1.495E+02	1.435E+02	2.761E+03	-1.570E+03
275	258	1.433E+03	2.009E+03	1.088E+02	1.631E+03	9.216E+03	1.146E+04
	256	1.446E+03	2.009E+03	1.088E+02	1.631E+03	9.575E+03	4.818E+03
276	259	2.486E+03	-3.247E+01	4.108E+01	6.367E+02	6.488E+03	3.893E+03
	257	2.556E+03	-3.247E+01	4.108E+01	6.367E+02	7.194E+03	4.451E+03
277	258	-3.087E+03	4.703E+02	1.827E+01	-9.657E+01	1.474E+02	5.607E+03
	294	-3.087E+03	4.293E+02	1.827E+01	-9.657E+01	5.206E+02	-3.583E+03
278	259	-2.495E+03	8.587E+02	6.245E+01	3.249E+01	-2.498E+02	1.090E+04
	293	-2.495E+03	8.125E+02	6.245E+01	3.249E+01	1.184E+03	-8.278E+03
279	258	1.216E+03	9.407E+01	-4.039E+01	-8.659E+02	2.713E+03	-2.756E+03
	105	1.089E+03	-5.113E+01	-4.039E+01	-8.659E+02	7.124E+01	-4.160E+03
280	259	3.117E+03	1.311E+02	-1.533E+01	9.033E+01	1.452E+03	-5.682E+02
	106	2.965E+03	-3.766E+01	-1.533E+01	9.033E+01	2.658E+02	-4.182E+03

STATIC ANALYSIS
CDF CMEX UPGRADE: FRAME ANALYSIS
LOADING 1 - FULL LOAD WITH BASE AND 7 CHAMBERS

BEAM	JT.	FORCES			MOMENTS		
		X	Y	Z	X	Y	Z
281	260	-2.183E+02	-2.220E+02	8.670E+01	-2.849E+01	-6.922E+01	5.128E+00
	258	9.428E+01	-2.220E+02	8.670E+01	-2.849E+01	6.580E+03	1.703E+04
282	261	-8.169E+02	-3.041E+02	8.820E+01	1.571E+01	3.104E+01	-5.881E+01
	259	-5.608E+02	-3.041E+02	8.820E+01	1.571E+01	5.573E+03	1.905E+04
295	248	-4.720E+02	-9.561E+00	4.195E+00	-2.356E+00	-5.468E+01	-9.576E+01
	265	-4.863E+02	4.166E+00	5.558E+00	-2.356E+00	1.368E+02	1.017E+01
296	249	7.699E+02	7.665E+00	4.965E+00	-3.242E-01	-9.823E+01	5.218E+01
	265	7.557E+02	-6.062E+00	3.602E+00	-3.242E-01	6.998E+01	2.072E+01
297	252	7.304E+02	4.493E+00	-5.954E+00	2.902E+00	3.396E+01	2.592E+02
	265	7.447E+02	5.856E+00	7.773E+00	2.902E+00	6.966E+01	5.605E+01
298	253	-5.141E+02	4.916E+00	6.560E+00	6.550E+00	-2.737E+01	3.116E+02
	265	-4.999E+02	3.553E+00	-7.168E+00	6.550E+00	-3.931E+01	1.453E+02
299	252	-5.976E+02	-6.364E+00	-3.820E-01	4.562E+00	1.130E+02	-4.833E+00
	266	-6.119E+02	7.363E+00	9.811E-01	4.562E+00	1.248E+02	-2.445E+01
300	253	1.054E+03	5.032E+00	2.857E+00	-6.148E+00	3.299E+01	1.446E+01
	266	1.040E+03	-8.696E+00	1.494E+00	-6.148E+00	1.184E+02	8.640E+01
301	256	1.012E+03	9.567E-01	-5.907E+00	5.887E-04	4.373E+01	1.846E+02
	266	1.027E+03	2.320E+00	7.820E+00	5.887E-04	8.129E+01	1.203E+02
302	257	-6.422E+02	1.813E+00	7.546E+00	2.970E+00	-4.539E+01	1.748E+02
	266	-6.279E+02	4.504E-01	-6.181E+00	2.970E+00	-1.860E+01	1.303E+02
303	256	2.393E+01	-6.060E+00	-5.574E-01	1.968E+00	5.847E+01	-1.634E+01
	267	3.711E+00	7.729E+00	-1.403E-01	1.968E+00	4.158E+01	-5.676E+01
304	257	2.563E+01	8.362E+00	4.545E-01	-6.190E-02	3.300E+01	1.230E+02
	267	5.406E+00	-5.426E+00	3.730E-02	-6.190E-02	4.491E+01	5.196E+01
305	260	-2.563E+01	-1.614E-01	-7.008E+00	-2.615E-02	5.691E+01	4.889E+01
	267	-5.406E+00	2.558E-01	6.780E+00	-2.615E-02	5.140E+01	4.661E+01
306	261	-2.393E+01	-1.156E-02	6.999E+00	3.930E-01	-6.123E+01	3.032E+01
	267	-3.711E+00	-4.287E-01	-6.790E+00	3.930E-01	-5.616E+01	4.098E+01
339	179	-3.324E+02	4.145E+02	-5.143E+01	9.644E+02	2.108E+03	9.045E+03
	285	-3.302E+02	4.124E+02	-5.328E+01	9.644E+02	2.016E+03	8.319E+03

STATIC ANALYSIS
CDF CMEX UPGRADE: FRAME ANALYSIS
LOADING 1 - FULL LOAD WITH BASE AND 7 CHAMBERS

BEAM	JT.	FORCES			MOMENTS		
		X	Y	Z	X	Y	Z
340	180	-8.588E+01	2.180E+02	2.038E+02	8.723E+02	-1.158E+03	3.969E+03
	286	-8.235E+01	2.146E+02	2.008E+02	8.723E+02	-5.748E+02	3.345E+03
341	85	-1.390E+03	7.789E+02	-4.992E+00	2.444E+03	2.249E+03	4.036E+04
	287	-1.387E+03	7.772E+02	-6.414E+00	2.444E+03	2.239E+03	3.899E+04
342	86	-9.342E+01	4.777E+02	3.780E+02	1.211E+03	-2.693E+03	2.616E+04
	288	-8.881E+01	4.751E+02	3.757E+02	1.211E+03	-1.604E+03	2.478E+04
349	94	-4.132E+03	2.136E+02	7.679E+02	-1.501E+03	5.497E+03	4.157E+04
	289	-4.126E+03	2.130E+02	7.674E+02	-1.501E+03	7.710E+03	4.095E+04
350	93	-7.941E+03	7.577E+01	4.980E+02	-3.805E+03	1.328E+04	5.962E+04
	290	-7.938E+03	7.542E+01	4.977E+02	-3.805E+03	1.415E+04	5.949E+04
351	98	-4.908E+03	4.012E+02	5.663E+02	8.511E+02	-8.440E+02	2.238E+04
	291	-4.902E+03	4.017E+02	5.668E+02	8.511E+02	7.889E+02	2.122E+04
352	97	-9.550E+03	3.422E+02	5.387E+02	-3.354E+03	5.260E+03	3.370E+04
	292	-9.546E+03	3.426E+02	5.390E+02	-3.354E+03	6.207E+03	3.310E+04
353	102	-5.994E+03	8.930E+02	8.269E+02	1.537E+03	-1.640E+03	6.542E+03
	293	-5.988E+03	8.946E+02	8.283E+02	1.537E+03	7.466E+02	3.964E+03
354	101	-1.054E+04	9.115E+02	8.900E+02	-2.677E+03	3.608E+03	1.498E+04
	294	-1.054E+04	9.125E+02	8.909E+02	-2.677E+03	5.172E+03	1.338E+04
355	90	-8.721E+01	5.597E+02	4.004E+02	1.206E+03	-3.706E+03	5.653E+04
	295	-8.185E+01	5.580E+02	3.990E+02	1.206E+03	-2.553E+03	5.492E+04
356	89	-2.727E+03	8.168E+02	-2.360E+01	1.518E+03	2.111E+03	8.016E+04
	296	-2.724E+03	8.157E+02	-2.449E+01	1.518E+03	2.069E+03	7.873E+04

STATIC ANALYSIS
CDF CMEX UPGRADE: FRAME ANALYSIS
LOADING 1 - FULL LOAD WITH BASE AND 7 CHAMBERS

STRESS CALCULATIONS							
BEAM	END	PT.	T SHEAR P/A	Y SHEAR Y BENDING	Z SHEAR Z BENDING	COMBINED	STRESS RATIO
1	AFT	1	0.000E+00	4.490E+00	1.590E+00	1.015E+01	0.00
			2.088E+00	6.177E+00	1.888E+00		
	AFT	2	-4.326E-13	4.490E+00	1.590E+00	3.976E+00	0.00
1	AFT	3	2.088E+00	0.000E+00	1.888E+00	1.999E-01	0.00
			-4.326E-13	4.490E+00	1.590E+00		
	AFT	3	2.088E+00	0.000E+00	-1.888E+00	1.999E-01	0.00
2	AFT	1	0.000E+00	2.181E+00	7.727E-01	2.919E+00	0.00
			1.015E+00	1.458E+00	4.457E-01		
	AFT	2	1.055E-12	2.181E+00	7.727E-01	1.460E+00	0.00
2	AFT	3	1.015E+00	0.000E+00	4.457E-01	5.689E-01	0.00
			1.055E-12	2.181E+00	7.727E-01		
	AFT	3	1.015E+00	0.000E+00	-4.457E-01	5.689E-01	0.00
3	AFT	1	-4.739E+00	6.363E+01	-4.238E+01	5.443E+02	0.01
			-1.348E+01	-2.494E+02	2.815E+02		
4	AFT	1	0.000E+00	-4.016E+01	-9.403E+00	6.375E+02	0.02
			-1.444E+01	5.868E+02	-3.632E+01		
	AFT	2	3.274E+03	-4.016E+01	-9.403E+00	5.671E+03	0.16
4	AFT	3	-1.444E+01	0.000E+00	-3.632E+01	5.671E+03	0.16
			3.274E+03	-4.016E+01	-9.403E+00		
	AFT	3	-1.444E+01	0.000E+00	3.632E+01	5.671E+03	0.16
5	AFT	1	0.000E+00	7.311E+01	2.107E+01	1.063E+03	0.03
			2.976E+01	9.764E+02	5.645E+01		
	AFT	2	7.717E+03	7.311E+01	2.107E+01	1.337E+04	0.37
5	AFT	3	2.976E+01	0.000E+00	5.645E+01	1.337E+04	0.37
			7.717E+03	7.311E+01	2.107E+01		
	AFT	3	2.976E+01	0.000E+00	-5.645E+01	1.337E+04	0.37
6	AFT	1	0.000E+00	-4.465E+02	-1.090E+02	1.950E+03	0.05
			-9.749E+02	-6.487E+02	-3.260E+02		
	AFT	2	-1.592E+03	-4.465E+02	-1.090E+02	3.050E+03	0.08
6	AFT	3	-9.749E+02	0.000E+00	-3.260E+02	2.833E+03	0.08
			-1.592E+03	-4.465E+02	-1.090E+02		
	AFT	3	-9.749E+02	0.000E+00	3.260E+02	2.833E+03	0.08
7	AFT	1	0.000E+00	-6.308E+02	-2.169E+02	2.675E+03	0.07
			-1.507E+03	-6.503E+02	-5.179E+02		
	AFT	2	2.430E+03	-6.308E+02	-2.169E+02	4.671E+03	0.13
7	AFT	3	-1.507E+03	0.000E+00	-5.179E+02	4.324E+03	0.12
			2.430E+03	-6.308E+02	-2.169E+02		
	AFT	3	-1.507E+03	0.000E+00	5.179E+02	4.324E+03	0.12

STATIC ANALYSIS
CDF CMEX UPGRADE: FRAME ANALYSIS
LOADING 1 - FULL LOAD WITH BASE AND 7 CHAMBERS

BEAM	END	PT.	T SHEAR P/A	Y SHEAR Y BENDING	Z SHEAR Z BENDING	COMBINED	STRESS RATIO
10	FORE	1	1.185E+02 4.035E+01	-1.163E+02 -3.868E+02	1.194E+02 2.639E+02	6.910E+02	0.02
11	AFT	1	4.818E+01 -3.103E+01	3.253E+01 -3.662E+02	-2.614E+01 2.933E+02	6.905E+02	0.02
12	FORE	1	8.278E+01 -1.447E+01	-8.219E+01 1.034E+02	-1.721E+01 1.810E+02	2.989E+02	0.01
13	AFT	1	3.690E+01 7.723E+00	2.129E+01 1.286E+02	1.333E+01 1.904E+02	3.267E+02	0.01
14	AFT	1	-7.912E+01 -6.755E+01	7.350E+01 2.540E+02	8.091E+01 -6.185E+00	3.277E+02	0.01
15	FORE	1	5.645E+00 -2.294E+01	2.417E+01 4.004E+02	-4.862E+01 -1.929E+02	6.162E+02	0.02
16	FORE	1	-3.883E+01 7.805E+00	4.905E+01 4.323E+00	-1.995E+01 -1.536E+02	1.657E+02	0.00
17	FORE	1	2.283E+01 6.597E+00	1.424E+01 -8.816E+01	6.579E+00 -9.464E+01	1.894E+02	0.01
18	FORE	1	-1.759E+01 2.581E+00	1.308E+02 1.240E+02	-1.543E+01 -7.098E+02	8.363E+02	0.02
19	AFT	1	0.000E+00 -8.780E+02	-4.160E+02 -9.373E+02	-1.194E+02 -9.885E+02	2.804E+03	0.08
	AFT	2	3.948E+03 -8.780E+02	-4.160E+02 0.000E+00	-1.194E+02 -9.885E+02	7.088E+03	0.20
	AFT	3	3.948E+03 -8.780E+02	-4.160E+02 0.000E+00	-1.194E+02 9.885E+02	6.839E+03	0.19
20	AFT	1	0.000E+00 -1.543E+03	-6.743E+02 -1.412E+03	-2.198E+02 -1.536E+03	4.491E+03	0.12
	AFT	2	5.754E+03 -1.543E+03	-6.743E+02 0.000E+00	-2.198E+02 -1.536E+03	1.043E+04	0.29
	AFT	3	5.754E+03 -1.543E+03	-6.743E+02 0.000E+00	-2.198E+02 1.536E+03	9.966E+03	0.28
21	FORE	1	0.000E+00 -8.834E+02	2.313E+02 -9.097E+02	1.099E+02 -9.951E+02	2.788E+03	0.08
	FORE	2	-9.394E+02 -8.834E+02	2.313E+02 0.000E+00	1.099E+02 -9.951E+02	2.485E+03	0.07
	FORE	3	-9.394E+02 -8.834E+02	2.313E+02 0.000E+00	1.099E+02 9.951E+02	1.631E+03	0.05
22	FORE	1	0.000E+00 -1.551E+03	4.608E+02 -1.377E+03	1.823E+02 -1.544E+03	4.472E+03	0.12
	FORE	2	-1.902E+03 -1.551E+03	4.608E+02 0.000E+00	1.823E+02 -1.544E+03	4.520E+03	0.13
	FORE	3	-1.902E+03 -1.551E+03	4.608E+02 0.000E+00	1.823E+02 1.544E+03	3.294E+03	0.09

STATIC ANALYSIS
CDF CMEX UPGRADE: FRAME ANALYSIS
LOADING 1 - FULL LOAD WITH BASE AND 7 CHAMBERS

BEAM	END	PT.	T SHEAR P/A	Y SHEAR Y BENDING	Z SHEAR Z BENDING	COMBINED	STRESS RATIO
23	AFT	1	4.332E+00 -2.952E+01	-5.183E+01 -2.205E+02	-4.479E+01 -3.163E+02	5.663E+02	0.01
24	FORE	1	0.000E+00 -9.028E+02	3.043E+02 -1.913E+02	1.520E+02 -6.331E+02	1.727E+03	0.05
	FORE	2	6.016E+03 -9.028E+02	3.043E+02 0.000E+00	1.520E+02 -6.331E+02	1.053E+04	0.29
	FORE	3	6.016E+03 -9.028E+02	3.043E+02 0.000E+00	1.520E+02 6.331E+02	1.042E+04	0.29
25	FORE	1	0.000E+00 -1.516E+03	4.057E+02 -7.238E+02	1.465E+02 -1.075E+03	3.315E+03	0.09
	FORE	2	3.693E+03 -1.516E+03	4.057E+02 0.000E+00	1.465E+02 -1.075E+03	6.901E+03	0.19
	FORE	3	3.693E+03 -1.516E+03	4.057E+02 0.000E+00	1.465E+02 1.075E+03	6.411E+03	0.18
26	FORE	1	0.000E+00 -8.169E+02	-5.824E+02 1.491E+03	-1.806E+02 2.496E+02	2.557E+03	0.07
	FORE	2	-8.273E+02 -8.169E+02	-5.824E+02 0.000E+00	-1.806E+02 2.496E+02	1.541E+03	0.04
	FORE	3	-8.273E+02 -8.169E+02	-5.824E+02 0.000E+00	-1.806E+02 -2.496E+02	1.786E+03	0.05
27	AFT	1	0.000E+00 -1.375E+03	-7.164E+02 3.736E+02	-2.306E+02 -8.439E+02	2.593E+03	0.07
	AFT	2	5.939E+03 -1.375E+03	-7.164E+02 0.000E+00	-2.306E+02 -8.439E+02	1.052E+04	0.29
	AFT	3	5.939E+03 -1.375E+03	-7.164E+02 0.000E+00	-2.306E+02 8.439E+02	1.030E+04	0.29
30	FORE	1	1.635E+02 1.987E+01	-1.536E+02 -3.520E+02	1.249E+02 4.069E+02	7.788E+02	0.02
31	AFT	1	1.101E+01 -3.365E+01	4.382E+01 -2.110E+02	-1.248E+01 3.796E+02	6.242E+02	0.02
32	FORE	1	6.170E+01 6.858E+00	-4.855E+01 1.389E+02	-6.225E+01 8.528E+01	2.310E+02	0.01
33	FORE	1	3.745E+01 1.824E+01	1.376E+01 5.928E+01	-4.333E+00 -1.504E+02	2.279E+02	0.01
34	FORE	1	-7.819E+01 -3.502E+01	7.281E+01 -2.964E+01	5.504E+01 -1.483E+02	2.130E+02	0.01
35	FORE	1	-4.168E+01 -1.502E+01	2.174E+01 1.907E+02	-2.461E+01 -1.906E+02	3.963E+02	0.01

STATIC ANALYSIS
CDF CMEX UPGRADE: FRAME ANALYSIS
LOADING 1 - FULL LOAD WITH BASE AND 7 CHAMBERS

BEAM	END	PT.	T SHEAR P/A	Y SHEAR Y BENDING	Z SHEAR Z BENDING	COMBINED	STRESS RATIO
36	FORE	1	-7.848E+01 2.967E+00	1.057E+02 8.710E+00	-2.108E+01 -3.001E+02	3.118E+02	0.01
37	AFT	1	1.360E+01 7.766E+00	2.807E+01 -2.687E+01	3.965E+00 3.208E+02	3.554E+02	0.01
38	FORE	1	-4.703E+01 -3.423E+01	9.975E+01 2.129E+02	-2.868E+01 -5.468E+02	7.939E+02	0.02
39	AFT	1	0.000E+00 -7.405E+02	-5.998E+02 -7.305E+02	-1.171E+02 -1.236E+03	2.707E+03	0.08
	AFT	2	6.675E+03 -7.405E+02	-5.998E+02 0.000E+00	-1.171E+02 -1.236E+03	1.173E+04	0.33
	AFT	3	6.675E+03 -7.405E+02	-5.998E+02 0.000E+00	-1.171E+02 1.236E+03	1.157E+04	0.32
40	AFT	1	0.000E+00 -1.378E+03	-7.841E+02 -9.861E+02	-2.798E+02 -2.012E+03	4.377E+03	0.12
	AFT	2	1.186E+04 -1.378E+03	-7.841E+02 0.000E+00	-2.798E+02 -2.012E+03	2.083E+04	0.58
	AFT	3	1.186E+04 -1.378E+03	-7.841E+02 0.000E+00	-2.798E+02 2.012E+03	2.056E+04	0.57
41	FORE	1	0.000E+00 -7.598E+02	-4.927E+01 -6.730E+02	7.794E+01 -1.249E+03	2.682E+03	0.07
	FORE	2	-3.951E+02 -7.598E+02	-4.927E+01 0.000E+00	7.794E+01 -1.249E+03	2.122E+03	0.06
	FORE	3	-3.951E+02 -7.598E+02	-4.927E+01 0.000E+00	7.794E+01 1.249E+03	8.414E+02	0.02
42	FORE	1	0.000E+00 -1.404E+03	2.347E+02 -8.784E+02	8.109E+01 -2.038E+03	4.320E+03	0.12
	FORE	2	-7.550E+01 -1.404E+03	2.347E+02 0.000E+00	8.109E+01 -2.038E+03	3.445E+03	0.10
	FORE	3	-7.550E+01 -1.404E+03	2.347E+02 0.000E+00	8.109E+01 2.038E+03	6.468E+02	0.02
43	AFT	1	-2.202E+01 -7.780E+00	6.903E+00 -2.726E+02	-5.348E+01 -3.643E+01	3.168E+02	0.01
44	FORE	1	0.000E+00 -7.543E+02	3.681E+01 3.415E+02	8.945E+01 -1.270E+03	2.366E+03	0.07
	FORE	2	8.148E+03 -7.543E+02	3.681E+01 0.000E+00	8.945E+01 -1.270E+03	1.426E+04	0.40
	FORE	3	8.148E+03 -7.543E+02	3.681E+01 0.000E+00	8.945E+01 1.270E+03	1.412E+04	0.39

STATIC ANALYSIS
CDF CMEX UPGRADE: FRAME ANALYSIS
LOADING 1 - FULL LOAD WITH BASE AND 7 CHAMBERS

BEAM	END	PT.	T SHEAR P/A	Y SHEAR Y BENDING	Z SHEAR Z BENDING	COMBINED	STRESS RATIO	
45	FORE	1	0.000E+00	1.591E+02	7.328E+01			
			-1.393E+03	-2.738E+02	-1.840E+03	3.507E+03	0.10	
	FORE	2	7.468E+03	1.591E+02	7.328E+01			
			-1.393E+03	0.000E+00	-1.840E+03	1.333E+04	0.37	
FORE	3		7.468E+03	1.591E+02	7.328E+01			
			-1.393E+03	0.000E+00	1.840E+03	1.294E+04	0.36	
46	AFT	1	0.000E+00	-4.920E+02	-1.061E+02			
			-7.199E+02	-2.367E+02	-1.245E+03	2.201E+03	0.06	
	AFT	2	-1.342E+02	-4.920E+02	-1.061E+02			
			-7.199E+02	0.000E+00	-1.245E+03	1.978E+03	0.05	
AFT	3		-1.342E+02	-4.920E+02	-1.061E+02			
			-7.199E+02	0.000E+00	1.245E+03	5.740E+02	0.02	
47	AFT	1	0.000E+00	-6.621E+02	-1.285E+02			
			-1.169E+03	-5.313E+01	-2.043E+03	3.265E+03	0.09	
	AFT	2	8.946E+03	-6.621E+02	-1.285E+02			
			-1.169E+03	0.000E+00	-2.043E+03	1.582E+04	0.44	
AFT	3		8.946E+03	-6.621E+02	-1.285E+02			
			-1.169E+03	0.000E+00	2.043E+03	1.552E+04	0.43	
50	FORE	1	2.207E+02	-1.664E+02	1.296E+02			
			2.566E+01	-3.892E+02	4.132E+02	8.281E+02	0.02	
51	FORE	1	3.754E+01	5.236E+01	-1.826E+01			
			-3.654E+01	4.554E+01	-5.381E+02	6.202E+02	0.02	
52	FORE	1	5.139E+01	-6.058E+01	-1.109E+02			
			-8.041E+00	3.081E+02	1.256E+02	4.418E+02	0.01	
53	AFT	1	3.056E+01	1.276E+01	6.412E+00			
			3.205E+01	1.079E+02	1.308E+02	2.708E+02	0.01	
54	FORE	1	-1.379E+02	1.188E+02	1.539E+01			
			-3.422E+01	6.437E+01	-2.932E+02	3.918E+02	0.01	
55	FORE	1	-2.587E+01	3.671E+01	-2.442E+01			
			-4.160E+00	1.676E+02	-3.363E+02	5.080E+02	0.01	
56	FORE	1	2.647E-02	6.259E+01	-1.533E+01			
			2.445E+01	-8.788E+01	-1.802E+02	2.926E+02	0.01	
57	AFT	1	1.445E+01	1.342E+01	1.822E+01			
			4.958E+00	9.690E+01	2.674E+02	3.692E+02	0.01	
58	FORE	1	-6.973E+01	7.573E+01	-3.142E+01			
			-2.631E+01	2.338E+02	-4.350E+02	6.952E+02	0.02	
59	AFT	1	0.000E+00	-5.872E+02	-7.722E+01			
				-6.507E+02	-5.824E+02	-2.126E+03	3.360E+03	0.09
				1.086E+04	-5.872E+02	-7.722E+01		
			-6.507E+02	0.000E+00	-2.126E+03	1.902E+04	0.53	
AFT	3		1.086E+04	-5.872E+02	-7.722E+01			
			-6.507E+02	0.000E+00	2.126E+03	1.887E+04	0.52	

STATIC ANALYSIS
CDF CMEX UPGRADE: FRAME ANALYSIS
LOADING 1 - FULL LOAD WITH BASE AND 7 CHAMBERS

BEAM	END	PT.	T SHEAR P/A	Y SHEAR Y BENDING	Z SHEAR Z BENDING	COMBINED	STRESS RATIO
60	AFT	1	0.000E+00	-7.292E+02	-1.931E+02		
			-1.177E+03	-7.730E+02	-3.199E+03	5.149E+03	0.14
	AFT	2	1.755E+04	-7.292E+02	-1.931E+02		
60			-1.177E+03	0.000E+00	-3.199E+03	3.071E+04	0.85
	AFT	3	1.755E+04	-7.292E+02	-1.931E+02		
			-1.177E+03	0.000E+00	3.199E+03	3.046E+04	0.85
61	AFT	1	0.000E+00	-1.025E+02	9.447E+01		
			-6.652E+02	2.356E+02	-2.231E+03	3.132E+03	0.09
	AFT	2	-2.731E+03	-1.025E+02	9.447E+01		
61			-6.652E+02	0.000E+00	-2.231E+03	5.547E+03	0.15
	AFT	3	-2.731E+03	-1.025E+02	9.447E+01		
			-6.652E+02	0.000E+00	2.231E+03	4.983E+03	0.14
62	FORE	1	0.000E+00	1.380E+02	1.140E+02		
			-1.197E+03	-6.403E+02	-3.231E+03	5.068E+03	0.14
	FORE	2	-2.989E+03	1.380E+02	1.140E+02		
62			-1.197E+03	0.000E+00	-3.231E+03	6.813E+03	0.19
	FORE	3	-2.989E+03	1.380E+02	1.140E+02		
			-1.197E+03	0.000E+00	3.231E+03	5.563E+03	0.15
63	AFT	1	-1.491E+00	3.376E+01	-7.117E+01		
			-2.899E+01	-3.680E+02	1.082E+02	5.053E+02	0.01
64	FORE	1	0.000E+00	1.088E+01	1.354E+02		
			-6.509E+02	1.247E+03	-2.258E+03	4.156E+03	0.12
	FORE	2	8.766E+03	1.088E+01	1.354E+02		
64			-6.509E+02	0.000E+00	-2.258E+03	1.546E+04	0.43
	FORE	3	8.766E+03	1.088E+01	1.354E+02		
			-6.509E+02	0.000E+00	2.258E+03	1.527E+04	0.42
65	FORE	1	0.000E+00	2.745E+01	7.412E+01		
			-1.197E+03	5.518E+02	-3.123E+03	4.871E+03	0.14
	FORE	2	7.870E+03	2.745E+01	7.412E+01		
65			-1.197E+03	0.000E+00	-3.123E+03	1.430E+04	0.40
	FORE	3	7.870E+03	2.745E+01	7.412E+01		
			-1.197E+03	0.000E+00	3.123E+03	1.377E+04	0.38
66	FORE	1	0.000E+00	2.704E+02	6.929E+01		
			-9.439E+01	-1.270E+03	-3.957E+03	5.322E+03	0.15
	FORE	2	-2.289E+03	2.704E+02	6.929E+01		
66			-9.439E+01	0.000E+00	-3.957E+03	5.669E+03	0.16
	FORE	3	-2.289E+03	2.704E+02	6.929E+01		
			-9.439E+01	0.000E+00	3.957E+03	5.535E+03	0.15

STATIC ANALYSIS
 CDF CMEX UPGRADE: FRAME ANALYSIS
 LOADING 1 - FULL LOAD WITH BASE AND 7 CHAMBERS

BEAM	END	PT.	T SHEAR P/A	Y SHEAR Y BENDING	Z SHEAR Z BENDING	COMBINED	STRESS RATIO
67	FORE	1	0.000E+00	2.333E+02	3.339E+01	6.860E+03	0.19
			-5.024E+02	-1.186E+03	-5.171E+03		
	FORE	2	3.116E+03	2.333E+02	3.339E+01		
	FORE	2	-5.024E+02	0.000E+00	-5.171E+03	7.831E+03	0.22
			3.116E+03	2.333E+02	3.339E+01		
	FORE	3	-5.024E+02	0.000E+00	5.171E+03		
70	FORE	1	3.281E+02	-1.837E+02	7.593E+01	6.838E+02	0.02
			2.319E+01	-2.372E+02	4.234E+02		
	FORE	1	7.246E+01	5.803E+01	-1.690E+01		
71	FORE	1	-2.174E+01	3.865E+01	-7.997E+02	8.601E+02	0.02
			-3.662E+01	-4.702E+01	-1.018E+02		
	FORE	1	-2.044E+01	3.270E+02	1.197E+02		
72	FORE	1	-3.662E+01	-4.702E+01	-1.018E+02	4.671E+02	0.01
			1.297E+00	8.311E+00	1.409E+01		
	AFT	1	2.827E+01	1.722E+02	2.702E+02		
73	AFT	1	1.297E+00	8.311E+00	1.409E+01	4.707E+02	0.01
			-3.095E+02	2.045E+02	9.946E+00		
	FORE	1	-2.675E+01	3.877E+01	-5.459E+02		
74	FORE	1	-3.095E+02	2.045E+02	9.946E+00	6.114E+02	0.01
			-1.323E+01	6.487E+01	-1.947E+01		
	FORE	1	-3.029E+00	1.065E+02	-7.546E+02		
75	FORE	1	-1.323E+01	6.487E+01	-1.947E+01	8.641E+02	0.02
			1.284E+02	-3.398E+01	-4.517E+01		
	AFT	1	3.435E+01	-1.708E+02	-1.105E+01		
76	AFT	1	1.284E+02	-3.398E+01	-4.517E+01	2.161E+02	0.01
			1.012E+01	-1.116E+01	2.473E+01		
	FORE	1	1.281E+01	-2.693E+02	3.131E+02		
77	FORE	1	1.012E+01	-1.116E+01	2.473E+01	5.951E+02	0.02
			-3.127E+01	2.240E+00	-4.449E+01		
	FORE	1	2.014E+01	2.793E+02	-8.567E+01		
78	FORE	1	-3.127E+01	2.240E+00	-4.449E+01	3.851E+02	0.01
			0.000E+00	1.975E+02	1.495E+01		
	FORE	1	-6.085E+01	-3.630E+02	-3.531E+03		
79	FORE	1	0.000E+00	1.975E+02	1.495E+01	3.954E+03	0.11
			1.053E+04	1.975E+02	1.495E+01		
	FORE	2	-6.085E+01	0.000E+00	-3.531E+03		
	FORE	2	1.053E+04	1.975E+02	1.495E+01	1.859E+04	0.52
			-6.085E+01	0.000E+00	-3.531E+03		
	FORE	3	1.053E+04	1.975E+02	1.495E+01		
80	FORE	3	-6.085E+01	0.000E+00	-3.531E+03	1.857E+04	0.52
			0.000E+00	1.018E+02	2.066E+01		
	FORE	1	-5.109E+02	-8.274E+02	-4.965E+03		
	FORE	1	0.000E+00	1.018E+02	2.066E+01	6.303E+03	0.18
			1.182E+04	1.018E+02	2.066E+01		
	FORE	2	-5.109E+02	0.000E+00	-4.965E+03		
81	FORE	2	1.182E+04	1.018E+02	2.066E+01	2.120E+04	0.59
			1.182E+04	1.018E+02	2.066E+01		
	FORE	3	-5.109E+02	0.000E+00	4.965E+03		
	FORE	3	1.182E+04	1.018E+02	2.066E+01	2.096E+04	0.58
			0.000E+00	2.342E+02	2.796E+01		
	FORE	1	-4.448E+01	-2.622E+02	-3.362E+03		
81	FORE	1	0.000E+00	2.342E+02	2.796E+01	3.668E+03	0.10
			-1.206E+04	2.342E+02	2.796E+01		
	FORE	2	-4.448E+01	0.000E+00	-3.362E+03		
	FORE	2	-1.206E+04	2.342E+02	2.796E+01	2.117E+04	0.59
			-1.206E+04	2.342E+02	2.796E+01		
	FORE	3	-4.448E+01	0.000E+00	3.362E+03		
81	FORE	3	-1.206E+04	2.342E+02	2.796E+01	2.115E+04	0.59
			-4.448E+01	0.000E+00	3.362E+03		
	FORE	3	-4.448E+01	0.000E+00	3.362E+03		

STATIC ANALYSIS
CDF CMEX UPGRADE: FRAME ANALYSIS
LOADING 1 - FULL LOAD WITH BASE AND 7 CHAMBERS

BEAM	END	PT.	T SHEAR P/A	Y SHEAR Y BENDING	Z SHEAR Z BENDING	COMBINED	STRESS RATIO
82	FORE	1	0.000E+00 -4.850E+02	4.655E+02 -8.268E+02	1.495E+02 -4.905E+03	6.217E+03	0.17
	FORE	2	-2.025E+04 -4.850E+02	4.655E+02 0.000E+00	1.495E+02 -4.905E+03	3.548E+04	0.99
	FORE	3	-2.025E+04 -4.850E+02	4.655E+02 0.000E+00	1.495E+02 4.905E+03	3.535E+04	0.98
83	FORE	1	9.806E+01 -7.723E+01	-8.550E+01 3.576E+02	-6.066E+01 3.948E+02	8.296E+02	0.02
84	FORE	1	0.000E+00 -6.606E+01	3.133E+02 -4.861E+02	1.299E+02 -3.097E+03	3.649E+03	0.10
	FORE	2	-5.744E+03 -6.606E+01	3.133E+02 0.000E+00	1.299E+02 -3.097E+03	1.044E+04	0.29
	FORE	3	-5.744E+03 -6.606E+01	3.133E+02 0.000E+00	1.299E+02 3.097E+03	1.040E+04	0.29
85	FORE	1	0.000E+00 -4.476E+02	3.701E+02 -8.633E+02	4.175E+01 -4.339E+03	5.650E+03	0.16
	FORE	2	-9.326E+03 -4.476E+02	3.701E+02 0.000E+00	4.175E+01 -4.339E+03	1.685E+04	0.47
	FORE	3	-9.326E+03 -4.476E+02	3.701E+02 0.000E+00	4.175E+01 4.339E+03	1.661E+04	0.46
86	FORE	1	0.000E+00 -1.165E+01	2.948E+02 -2.407E+02	8.451E+01 -2.553E+03	2.805E+03	0.08
	FORE	2	-2.235E+03 -1.165E+01	2.948E+02 0.000E+00	8.451E+01 -2.553E+03	4.643E+03	0.13
	FORE	3	-2.235E+03 -1.165E+01	2.948E+02 0.000E+00	8.451E+01 2.553E+03	4.630E+03	0.13
87	FORE	1	0.000E+00 -3.847E+02	4.311E+02 3.543E+02	-5.112E+00 -3.658E+03	4.397E+03	0.12
	FORE	2	-2.908E+03 -3.847E+02	4.311E+02 0.000E+00	-5.112E+00 -3.658E+03	6.458E+03	0.18
	FORE	3	-2.908E+03 -3.847E+02	4.311E+02 0.000E+00	-5.112E+00 3.658E+03	6.007E+03	0.17
90	FORE	1	2.425E+02 -3.773E+01	-1.461E+02 1.636E+02	-1.218E+01 3.812E+02	5.825E+02	0.01
91	FORE	1	1.546E+01 2.866E+00	4.582E+01 -2.089E+02	2.656E+01 -5.910E+02	8.028E+02	0.02
92	AFT	1	-5.351E+01 3.254E+01	-5.616E+00 -1.396E+02	-5.836E+01 1.614E+01	1.882E+02	0.00

STATIC ANALYSIS
CDF CMEX UPGRADE: FRAME ANALYSIS
LOADING 1 - FULL LOAD WITH BASE AND 7 CHAMBERS

BEAM	END	PT.	T SHEAR P/A	Y SHEAR Y BENDING	Z SHEAR Z BENDING	COMBINED	STRESS RATIO
93	FORE	1	-1.483E+01 1.655E+01	1.846E+00 2.200E+02	-2.343E+01 1.305E+02	3.670E+02	0.01
94	FORE	1	-2.886E+02 3.899E+01	1.695E+02 -2.838E+02	4.669E+01 -3.864E+02	7.093E+02	0.02
95	FORE	1	-7.064E+01 -1.383E+01	5.352E+01 -2.376E+02	2.746E+01 -7.036E+02	9.550E+02	0.03
96	FORE	1	-8.669E+00 -8.488E+00	5.274E+01 2.844E+02	-1.137E+02 -1.097E+02	4.026E+02	0.01
97	AFT	1	-2.577E+01 3.047E+01	1.068E+01 -1.708E+02	-7.934E+00 1.970E+02	3.983E+02	0.01
98	FORE	1	3.195E+01 6.192E+01	-1.052E+02 2.925E+02	-4.703E+01 4.768E+02	8.313E+02	0.02
99	FORE	1	0.000E+00 -3.697E+01	2.704E+02 -2.320E+02	2.963E+01 -2.135E+03	2.404E+03	0.07
	FORE	2	3.403E+03 -3.697E+01	2.704E+02 0.000E+00	2.963E+01 -2.135E+03	6.281E+03	0.17
	FORE	3	3.403E+03 -3.697E+01	2.704E+02 0.000E+00	2.963E+01 2.135E+03	6.256E+03	0.17
100	FORE	1	0.000E+00 -3.195E+02	2.014E+02 -5.446E+02	9.059E+01 -3.002E+03	3.866E+03	0.11
	FORE	2	-1.312E+03 -3.195E+02	2.014E+02 0.000E+00	9.059E+01 -3.002E+03	4.024E+03	0.11
	FORE	3	-1.312E+03 -3.195E+02	2.014E+02 0.000E+00	9.059E+01 3.002E+03	3.516E+03	0.10
101	FORE	1	0.000E+00 -1.629E+01	2.863E+02 -6.300E+01	3.524E+01 -1.896E+03	1.975E+03	0.05
	FORE	2	-9.630E+03 -1.629E+01	2.863E+02 0.000E+00	3.524E+01 -1.896E+03	1.679E+04	0.47
	FORE	3	-9.630E+03 -1.629E+01	2.863E+02 0.000E+00	3.524E+01 1.896E+03	1.679E+04	0.47
102	FORE	1	0.000E+00 -2.870E+02	4.221E+02 -4.045E+02	1.688E+02 -2.873E+03	3.564E+03	0.10
	FORE	2	-2.059E+04 -2.870E+02	4.221E+02 0.000E+00	1.688E+02 -2.873E+03	3.580E+04	0.99
	FORE	3	-2.059E+04 -2.870E+02	4.221E+02 0.000E+00	1.688E+02 2.873E+03	3.575E+04	0.99
103	FORE	1	9.391E+01 -7.490E+01	-1.100E+02 2.917E+02	-4.045E+01 5.350E+02	9.016E+02	0.02

STATIC ANALYSIS
CDF CMEX UPGRADE: FRAME ANALYSIS
LOADING 1 - FULL LOAD WITH BASE AND 7 CHAMBERS

BEAM	END	PT.	T SHEAR P/A	Y SHEAR Y BENDING	Z SHEAR Z BENDING	COMBINED	STRESS RATIO
104	FORE	1	0.000E+00	3.236E+02	1.304E+02		
			-5.018E+01	-5.732E+02	-1.564E+03	2.187E+03	0.06
	FORE	2	-8.166E+03	3.236E+02	1.304E+02		
			-5.018E+01	0.000E+00	-1.564E+03	1.424E+04	0.40
105	FORE	3	-8.166E+03	3.236E+02	1.304E+02		
			-5.018E+01	0.000E+00	1.564E+03	1.422E+04	0.40
	FORE	1	0.000E+00	3.574E+02	6.384E+01		
			-2.394E+02	-6.534E+02	-2.347E+03	3.240E+03	0.09
106	FORE	2	-1.183E+04	3.574E+02	6.384E+01		
			-2.394E+02	0.000E+00	-2.347E+03	2.065E+04	0.57
	FORE	3	-1.183E+04	3.574E+02	6.384E+01		
			-2.394E+02	0.000E+00	2.347E+03	2.059E+04	0.57
107	FORE	1	0.000E+00	2.509E+02	7.959E+01		
			-1.258E+01	-8.471E+01	-1.120E+03	1.217E+03	0.03
	FORE	2	-2.292E+03	2.509E+02	7.959E+01		
			-1.258E+01	0.000E+00	-1.120E+03	4.129E+03	0.11
108	FORE	3	-2.292E+03	2.509E+02	7.959E+01		
			-1.258E+01	0.000E+00	1.120E+03	4.122E+03	0.11
	FORE	1	0.000E+00	4.108E+02	-1.298E+00		
			-1.959E+02	3.941E+02	-1.758E+03	2.348E+03	0.07
109	FORE	2	-4.666E+03	4.108E+02	-1.298E+00		
			-1.959E+02	0.000E+00	-1.758E+03	8.315E+03	0.23
	FORE	3	-4.666E+03	4.108E+02	-1.298E+00		
			-1.959E+02	0.000E+00	1.758E+03	8.232E+03	0.23
110	FORE	1	1.375E+02	-1.001E+02	-5.143E+01		
			-4.196E+01	2.527E+02	2.739E+02	5.686E+02	0.01
111	FORE	1	-2.498E+00	3.104E+01	2.924E+01		
			1.365E+01	-1.795E+02	-3.351E+02	5.283E+02	0.01
112	AFT	1	-2.479E+00	-2.272E+01	-5.992E+01		
			3.295E+01	-1.589E+02	8.444E+00	2.002E+02	0.00
113	AFT	1	-7.761E+00	3.632E+00	-2.566E+01		
			1.510E+01	-1.667E+02	9.980E+01	2.816E+02	0.01
114	FORE	1	-1.951E+02	1.164E+02	4.202E+01		
			5.402E+01	-3.233E+02	-2.488E+02	6.261E+02	0.01
115	FORE	1	-6.219E+01	3.637E+01	3.793E+01		
			-1.285E+01	-3.177E+02	-4.757E+02	8.063E+02	0.02
116	FORE	1	-8.236E+01	8.190E+01	-1.368E+02		
			3.046E-01	3.172E+02	-1.862E+02	5.038E+02	0.01

STATIC ANALYSIS
CDF CMEX UPGRADE: FRAME ANALYSIS
LOADING 1 - FULL LOAD WITH BASE AND 7 CHAMBERS

BEAM	END	PT.	T SHEAR P/A	Y SHEAR Y BENDING	Z SHEAR Z BENDING	COMBINED	STRESS RATIO
117	AFT	1	-3.135E+01 3.597E+01	2.120E+01 -1.229E+02	-2.677E+00 1.899E+02	3.487E+02	0.01
118	FORE	1	4.579E+01 5.802E+01	-9.515E+01 2.365E+02	-3.236E+01 4.429E+02	7.374E+02	0.02
119	FORE	1	0.000E+00 -2.989E+01	1.897E+02 -1.242E+02	2.649E+01 -7.702E+02	9.243E+02	0.03
	FORE	2	-4.188E+02 -2.989E+01	1.897E+02 0.000E+00	2.649E+01 -7.702E+02	1.080E+03	0.03
	FORE	3	-4.188E+02 -2.989E+01	1.897E+02 0.000E+00	2.649E+01 7.702E+02	1.036E+03	0.03
120	FORE	1	0.000E+00 -1.247E+02	1.717E+02 -2.575E+02	7.808E+01 -1.087E+03	1.470E+03	0.04
	FORE	2	-5.893E+03 -1.247E+02	1.717E+02 0.000E+00	7.808E+01 -1.087E+03	1.028E+04	0.29
	FORE	3	-5.893E+03 -1.247E+02	1.717E+02 0.000E+00	7.808E+01 1.087E+03	1.025E+04	0.28
157	FORE	1	0.000E+00 -1.019E+02	2.526E+02 -1.347E+02	1.067E+02 -9.769E+02	1.214E+03	0.03
	FORE	2	-1.267E+04 -1.019E+02	2.526E+02 0.000E+00	1.067E+02 -9.769E+02	2.197E+04	0.61
	FORE	3	-1.267E+04 -1.019E+02	2.526E+02 0.000E+00	1.067E+02 9.769E+02	2.196E+04	0.61
158	FORE	1	0.000E+00 -1.443E+01	2.008E+02 2.825E+01	3.041E+01 -6.012E+02	6.439E+02	0.02
	FORE	2	-4.716E+03 -1.443E+01	2.008E+02 0.000E+00	3.041E+01 -6.012E+02	8.191E+03	0.23
	FORE	3	-4.716E+03 -1.443E+01	2.008E+02 0.000E+00	3.041E+01 6.012E+02	8.189E+03	0.23
159	FORE	1	5.486E+01 -4.030E+01	-7.175E+01 2.114E+02	-2.295E+01 3.461E+02	5.978E+02	0.01
160	FORE	1	0.000E+00 -4.668E+01	2.177E+02 3.297E+02	-1.133E+01 -3.396E+02	7.160E+02	0.02
	FORE	2	-1.826E+03 -4.668E+01	2.177E+02 0.000E+00	-1.133E+01 -3.396E+02	3.186E+03	0.09
	FORE	3	-1.826E+03 -4.668E+01	2.177E+02 0.000E+00	-1.133E+01 3.396E+02	3.176E+03	0.09
161	FORE	1	0.000E+00 -1.165E+01	1.133E+02 4.958E+00	4.254E+01 -1.295E+02	1.461E+02	0.00
	FORE	2	-1.658E+03 -1.165E+01	1.133E+02 0.000E+00	4.254E+01 -1.295E+02	2.876E+03	0.08
	FORE	3	-1.658E+03 -1.165E+01	1.133E+02 0.000E+00	4.254E+01 1.295E+02	2.875E+03	0.08

STATIC ANALYSIS
 CDF CMEX UPGRADE: FRAME ANALYSIS
 LOADING 1 - FULL LOAD WITH BASE AND 7 CHAMBERS

BEAM	END	PT.	T SHEAR P/A	Y SHEAR Y BENDING	Z SHEAR Z BENDING	COMBINED	STRESS RATIO
164	FORE	1	0.000E+00	2.844E+00	1.008E+00	3.261E+00	0.00
			-7.782E-01	-1.901E+00	-5.812E-01		
	FORE	2	2.769E-11	2.844E+00	1.008E+00		
164	FORE	3	-7.782E-01	0.000E+00	-5.812E-01	1.359E+00	0.00
			2.769E-11	2.844E+00	1.008E+00		
	FORE		-7.782E-01	0.000E+00	5.812E-01		
165	FORE	1	0.000E+00	5.854E+00	2.073E+00	1.212E+01	0.00
			-1.602E+00	-8.053E+00	-2.462E+00		
	FORE	2	-1.385E-11	5.854E+00	2.073E+00		
165	FORE	3	-1.602E+00	0.000E+00	-2.462E+00	4.064E+00	0.00
			-1.385E-11	5.854E+00	2.073E+00		
	FORE		-1.602E+00	0.000E+00	2.462E+00		
166	FORE	1	3.269E+01	-3.772E+01	-2.714E+01	4.408E+02	0.01
			3.272E+01	2.478E+02	1.602E+02		
167	FORE	1	-9.871E+01	6.384E+01	6.156E+00	4.033E+02	0.01
			5.009E+01	-2.199E+02	-1.333E+02		
168	FORE	1	6.452E+01	-6.197E+01	-6.288E+01	3.994E+02	0.01
			-2.567E+01	2.058E+02	1.679E+02		
169	FORE	1	-9.883E+01	7.983E+01	-1.243E+02	4.082E+02	0.01
			2.680E+01	1.865E+02	-1.949E+02		
170	FORE	1	4.166E+01	-4.532E+01	-8.542E+01	2.406E+02	0.01
			1.490E+01	1.100E+02	1.158E+02		
171	FORE	1	-3.538E+01	1.952E+01	3.482E+01	5.537E+02	0.02
			-2.952E+00	-3.102E+02	-2.405E+02		
172	FORE	1	-1.977E+01	2.476E+01	1.806E+01	5.179E+02	0.01
			3.403E+01	-2.431E+02	-2.408E+02		
173	FORE	1	4.297E+00	1.345E+01	-1.189E+01	3.172E+02	0.01
			2.304E+01	1.926E+02	-1.015E+02		
174	AFT	1	-1.214E+00	1.597E+01	1.468E+01	3.640E+02	0.01
			1.415E+01	2.122E+02	1.376E+02		
233	FORE	1	0.000E+00	2.137E+02	4.949E+01	1.027E+03	0.03
			-7.087E+01	-2.910E+02	-6.652E+02		
	FORE	2	-6.362E+03	2.137E+02	4.949E+01		
233	FORE	3	-7.087E+01	0.000E+00	-6.652E+02	1.104E+04	0.31
			-6.362E+03	2.137E+02	4.949E+01		
	FORE		-7.087E+01	0.000E+00	6.652E+02		
234	FORE	1	0.000E+00	2.024E+02	7.444E+01	6.310E+02	0.02
			-3.517E+01	-2.294E+02	-3.664E+02		
	FORE	2	-6.742E+03	2.024E+02	7.444E+01		
234	FORE	3	-3.517E+01	0.000E+00	-3.664E+02	1.168E+04	0.32
			-6.742E+03	2.024E+02	7.444E+01		
	FORE		-3.517E+01	0.000E+00	3.664E+02		

STATIC ANALYSIS
CDF CMEX UPGRADE: FRAME ANALYSIS
LOADING 1 - FULL LOAD WITH BASE AND 7 CHAMBERS

BEAM	END	PT.	T SHEAR P/A	Y SHEAR Y BENDING	Z SHEAR Z BENDING	COMBINED	STRESS RATIO
260	AFT	1	-2.834E+01 -1.046E+01	1.549E+01 1.532E+02	3.220E+01 1.088E+02	2.725E+02	0.01
261	FORE	1	-3.680E+01 1.832E+01	3.860E+01 -2.364E+02	6.543E+01 -2.101E+02	4.649E+02	0.01
262	FORE	1	-4.488E+01 -5.490E+01	2.415E+01 -2.492E+02	8.482E+01 -1.771E+02	4.813E+02	0.01
263	AFT	1	0.000E+00 8.748E+01	-2.291E+03 -2.292E+01	-1.053E+02 -2.455E+03	2.565E+03	0.07
	AFT	2	-2.966E+04 8.748E+01	-2.291E+03 0.000E+00	-1.053E+02 -2.455E+03	5.142E+04	1.43
	AFT	3	-2.966E+04 8.748E+01	-2.291E+03 0.000E+00	-1.053E+02 2.455E+03	5.143E+04	1.43
264	AFT	1	0.000E+00 5.423E+01	-1.816E+03 -1.270E+02	-1.118E+02 -2.062E+03	2.243E+03	0.06
	AFT	2	-2.912E+04 5.423E+01	-1.816E+03 0.000E+00	-1.118E+02 -2.062E+03	5.048E+04	1.40
	AFT	3	-2.912E+04 5.423E+01	-1.816E+03 0.000E+00	-1.118E+02 2.062E+03	5.049E+04	1.40
265	FORE	1	8.513E+01 3.095E+02	1.077E+02 4.665E+02	-4.858E+01 -9.918E+02	1.768E+03	0.04
266	FORE	1	7.420E+01 1.722E+02	6.696E+01 4.103E+02	-3.621E+01 -7.769E+02	1.359E+03	0.03
267	AFT	1	-2.893E+01 -2.925E+01	2.061E+01 1.262E+02	3.066E+01 1.418E+02	2.972E+02	0.01
268	FORE	1	2.896E+01 3.724E+02	1.322E+02 4.646E+02	-2.844E+01 -1.428E+03	2.265E+03	0.05
269	FORE	1	2.165E+01 7.733E+01	6.393E+01 3.855E+02	-8.314E+00 -1.128E+03	1.590E+03	0.04
270	FORE	1	0.000E+00 -2.965E+02	-5.158E+02 -2.007E+00	4.190E+01 2.048E+02	5.033E+02	0.01
	FORE	2	3.117E+03 -2.965E+02	-5.158E+02 0.000E+00	4.190E+01 2.048E+02	5.399E+03	0.15
	FORE	3	3.117E+03 -2.965E+02	-5.158E+02 0.000E+00	4.190E+01 -2.048E+02	5.422E+03	0.15
271	AFT	1	0.000E+00 -2.354E+02	2.302E+02 1.692E+02	1.740E+01 1.652E+02	5.697E+02	0.02
	AFT	2	2.386E+03 -2.354E+02	2.302E+02 0.000E+00	1.740E+01 1.652E+02	4.133E+03	0.11
	AFT	3	2.386E+03 -2.354E+02	2.302E+02 0.000E+00	1.740E+01 -1.652E+02	4.152E+03	0.12

Too High

STATIC ANALYSIS
CDF CMEX UPGRADE: FRAME ANALYSIS
LOADING 1 - FULL LOAD WITH BASE AND 7 CHAMBERS

BEAM	END	PT.	T SHEAR P/A	Y SHEAR Y BENDING	Z SHEAR Z BENDING	COMBINED	STRESS RATIO
272	AFT	1	9.638E+00 4.404E+02	-1.019E+02 4.145E+02	1.690E+01 -1.181E+03	2.036E+03	0.05
273	AFT	1	1.937E+01 4.583E+01	-1.219E+02 3.471E+02	1.052E+01 -1.192E+03	1.585E+03	0.04
274	AFT	1	-4.799E+00 -1.276E-05	1.378E+01 1.483E+02	3.005E+01 8.429E+01	2.326E+02	0.01
275	FORE	1	-3.151E+01 9.983E+01	2.240E+02 2.817E+02	2.495E+01 -3.094E+02	6.909E+02	0.02
276	AFT	1	-1.230E+01 1.781E+02	-3.620E+00 2.199E+02	9.417E+00 -1.202E+02	5.182E+02	0.01
277	FORE	1	0.000E+00 -4.360E+02	2.485E+02 2.617E+01	3.870E+00 -2.688E+02	7.310E+02	0.02
	FORE	2	1.838E+02 -4.360E+02	2.485E+02 0.000E+00	3.870E+00 -2.688E+02	7.734E+02	0.02
	FORE	3	1.838E+02 -4.360E+02	2.485E+02 0.000E+00	3.870E+00 2.688E+02	3.595E+02	0.01
278	AFT	1	0.000E+00 -3.525E+02	4.292E+02 2.102E+02	1.323E+01 3.969E+02	9.596E+02	0.03
	AFT	2	-6.182E+01 -3.525E+02	4.292E+02 0.000E+00	1.323E+01 3.969E+02	1.159E+02	0.00
	AFT	3	-6.182E+01 -3.525E+02	4.292E+02 0.000E+00	1.323E+01 -3.969E+02	7.570E+02	0.02
279	FORE	1	2.897E+01 1.174E+02	1.891E+01 1.457E+02	-8.117E+00 1.480E+02	4.111E+02	0.01
280	AFT	1	-3.022E+00 2.864E+02	-7.568E+00 1.427E+01	-3.080E+00 2.246E+02	5.253E+02	0.01
281	AFT	1	5.505E-01 6.570E+00	-2.476E+01 2.012E+02	1.988E+01 -4.600E+02	6.678E+02	0.02
282	AFT	1	-3.036E-01 -3.908E+01	-3.390E+01 1.704E+02	2.022E+01 -5.144E+02	7.238E+02	0.02
295	AFT	1	0.000E+00 -2.732E+02	4.985E+00 1.978E+02	7.494E+00 -8.976E+00	8.433E+01	0.00
	AFT	2	-1.130E+01 -2.732E+02	4.985E+00 -2.630E+02	7.494E+00 0.000E+00	5.366E+02	0.01
	AFT	3	0.000E+00 -2.732E+02	4.985E+00 1.978E+02	7.494E+00 8.976E+00	6.638E+01	0.00
296	FORE	1	0.000E+00 4.325E+02	9.172E+00 -1.420E+02	6.694E+00 -4.603E+01	2.445E+02	0.01
	FORE	2	-4.909E+01 4.325E+02	9.172E+00 1.888E+02	6.694E+00 0.000E+00	6.272E+02	0.02
	FORE	3	0.000E+00 4.325E+02	9.172E+00 -1.420E+02	6.694E+00 4.603E+01	3.366E+02	0.01

STATIC ANALYSIS
 CDF CMEX UPGRADE: FRAME ANALYSIS
 LOADING 1 - FULL LOAD WITH BASE AND 7 CHAMBERS

BEAM	END	PT.	T SHEAR P/A	Y SHEAR Y BENDING	Z SHEAR Z BENDING	COMBINED	STRESS RATIO
297	FORE	1	0.000E+00 4.103E+02	5.376E+00 4.909E+01	-8.028E+00 -2.287E+02	2.307E+02	0.01
		2	-5.059E+01 4.103E+02	5.376E+00 -6.528E+01	-8.028E+00 0.000E+00		
	FORE	3	0.000E+00 4.103E+02	5.376E+00 4.909E+01	-8.028E+00 2.287E+02	6.881E+02	0.02
298	FORE	1	0.000E+00 -2.888E+02	5.883E+00 -3.957E+01	8.844E+00 -2.749E+02	6.033E+02	0.02
	FORE	2	-7.917E+01 -2.888E+02	5.883E+00 5.262E+01	8.844E+00 0.000E+00		
	FORE	3	0.000E+00 -2.888E+02	5.883E+00 -3.957E+01	8.844E+00 2.749E+02	5.354E+01	0.00
299	AFT	1	0.000E+00 -3.437E+02	8.811E+00 1.804E+02	1.323E+00 2.157E+01	1.418E+02	0.00
	AFT	2	-8.155E+01 -3.437E+02	8.811E+00 -2.399E+02	1.323E+00 0.000E+00		
	AFT	3	0.000E+00 -3.437E+02	8.811E+00 1.804E+02	1.323E+00 -2.157E+01	1.849E+02	0.01
300	AFT	1	0.000E+00 5.840E+02	-1.041E+01 1.712E+02	2.015E+00 -7.622E+01	6.790E+02	0.02
	AFT	2	1.017E+02 5.840E+02	-1.041E+01 -2.277E+02	2.015E+00 0.000E+00		
	AFT	3	0.000E+00 5.840E+02	-1.041E+01 1.712E+02	2.015E+00 7.622E+01	8.314E+02	0.02
301	AFT	1	0.000E+00 5.767E+02	2.776E+00 1.175E+02	1.054E+01 -1.061E+02	5.881E+02	0.02
	AFT	2	-1.555E+01 5.767E+02	2.776E+00 -1.563E+02	1.054E+01 0.000E+00		
	AFT	3	0.000E+00 5.767E+02	2.776E+00 1.175E+02	1.054E+01 1.061E+02	8.004E+02	0.02
302	FORE	1	0.000E+00 -3.608E+02	2.170E+00 -6.563E+01	1.017E+01 -1.542E+02	5.806E+02	0.02
	FORE	2	-3.311E+01 -3.608E+02	2.170E+00 8.727E+01	1.017E+01 0.000E+00		
	FORE	3	0.000E+00 -3.608E+02	2.170E+00 -6.563E+01	1.017E+01 1.542E+02	2.722E+02	0.01

STATIC ANALYSIS
CDF CMEX UPGRADE: FRAME ANALYSIS
LOADING 1 - FULL LOAD WITH BASE AND 7 CHAMBERS

BEAM	END	PT.	T SHEAR P/A	Y SHEAR Y BENDING	Z SHEAR Z BENDING	COMBINED	STRESS RATIO
303	AFT	1	0.000E+00	9.249E+00	-1.891E-01	1.123E+02	0.00
			2.085E+00	6.012E+01	5.007E+01		
	AFT	2	-6.569E+01	9.249E+00	-1.891E-01	1.379E+02	0.00
304	AFT	3	0.000E+00	9.249E+00	-1.891E-01	1.213E+01	0.00
			2.085E+00	6.012E+01	-5.007E+01		
	FORE	1	0.000E+00	1.001E+01	6.128E-01	4.644E+01	0.00
FORE	2	1.440E+01	4.772E+01	-1.086E+02			
		-5.562E+01	1.001E+01	6.128E-01			
FORE	3	1.440E+01	-6.345E+01	0.000E+00	1.081E+02	0.00	
		0.000E+00	1.001E+01	6.128E-01	1.707E+02	0.00	
305	FORE	1	0.000E+00	-1.931E-01	-9.449E+00	2.476E+01	0.00
			-1.440E+01	8.229E+01	-4.313E+01		
	FORE	2	1.266E+00	-1.931E-01	-9.449E+00	1.238E+02	0.00
306	FORE	3	-1.440E+01	-1.094E+02	0.000E+00	1.110E+02	0.00
			0.000E+00	-1.931E-01	-9.449E+00		
	FORE	1	0.000E+00	-1.383E-02	9.437E+00	1.287E+02	0.00
FORE	2	-1.344E+01	-8.853E+01	-2.675E+01			
		-2.695E+00	-1.383E-02	9.437E+00	1.044E+02		
FORE	3	-1.344E+01	1.177E+02	0.000E+00	1.044E+02	0.00	
		0.000E+00	-1.383E-02	9.437E+00	7.522E+01	0.00	
339	FORE	1	0.000E+00	2.190E+02	-1.090E+01	8.550E+02	0.02
			-4.695E+01	3.743E+02	-4.337E+02		
	FORE	2	-1.835E+03	2.190E+02	-1.090E+01	3.215E+03	0.09
FORE	3	-4.695E+01	0.000E+00	-4.337E+02	3.202E+03	0.09	
		-1.835E+03	2.190E+02	-1.090E+01			
340	FORE	1	0.000E+00	1.152E+02	4.319E+01	4.081E+02	0.01
			-1.213E+01	-2.057E+02	-1.903E+02		
	FORE	2	-1.660E+03	1.152E+02	4.319E+01	2.882E+03	0.08
FORE	3	-1.213E+01	0.000E+00	-1.903E+02	2.881E+03	0.08	
		-1.660E+03	1.152E+02	4.319E+01			
			-1.213E+01	0.000E+00	1.903E+02		

STATIC ANALYSIS
CDF CMEX UPGRADE: FRAME ANALYSIS
LOADING 1 - FULL LOAD WITH BASE AND 7 CHAMBERS

BEAM	END	PT.	T SHEAR P/A	Y SHEAR Y BENDING	Z SHEAR Z BENDING	COMBINED	STRESS RATIO
341	FORE	1	0.000E+00	4.114E+02	-1.058E+00	2.531E+03	0.07
			-1.964E+02	3.994E+02	-1.935E+03		
	FORE	2	-4.651E+03	4.114E+02	-1.058E+00	8.333E+03	0.23
		-1.964E+02	0.000E+00	-1.935E+03			
342	FORE	3	-4.651E+03	4.114E+02	-1.058E+00	8.241E+03	0.23
			-1.964E+02	0.000E+00	1.935E+03		
	FORE	1	0.000E+00	2.523E+02	8.009E+01	1.745E+03	0.05
		-1.319E+01	-4.782E+02	-1.254E+03			
349	FORE	2	-2.305E+03	2.523E+02	8.009E+01	4.189E+03	0.12
			-1.319E+01	0.000E+00	-1.254E+03		
	FORE	3	-2.305E+03	2.523E+02	8.009E+01	4.181E+03	0.12
		-1.319E+01	0.000E+00	1.254E+03			
350	FORE	1	0.000E+00	1.128E+02	1.627E+02	3.553E+03	0.10
			-5.836E+02	9.763E+02	-1.993E+03		
	FORE	2	2.857E+03	1.128E+02	1.627E+02	5.579E+03	0.15
		-5.836E+02	0.000E+00	-1.993E+03			
351	FORE	3	2.857E+03	1.128E+02	1.627E+02	5.145E+03	0.14
			-5.836E+02	0.000E+00	1.993E+03		
	FORE	1	0.000E+00	4.002E+01	1.055E+02	6.338E+03	0.18
		-1.122E+03	2.358E+03	-2.859E+03			
352	FORE	2	7.241E+03	4.002E+01	1.055E+02	1.316E+04	0.37
			-1.122E+03	0.000E+00	-2.859E+03		
	FORE	3	7.241E+03	4.002E+01	1.055E+02	1.266E+04	0.35
		-1.122E+03	0.000E+00	2.859E+03			
353	FORE	1	0.000E+00	2.119E+02	1.200E+02	1.916E+03	0.05
			-6.932E+02	-1.499E+02	-1.073E+03		
	FORE	2	-1.620E+03	2.119E+02	1.200E+02	3.315E+03	0.09
		-6.932E+02	0.000E+00	-1.073E+03			
354	FORE	3	-1.620E+03	2.119E+02	1.200E+02	2.831E+03	0.08
			-6.932E+02	0.000E+00	1.073E+03		
	FORE	1	0.000E+00	1.808E+02	1.141E+02	3.899E+03	0.11
		-1.349E+03	9.342E+02	-1.616E+03			
355	FORE	2	6.383E+03	1.808E+02	1.141E+02	1.145E+04	0.32
			-1.349E+03	0.000E+00	-1.616E+03		
	FORE	3	6.383E+03	1.808E+02	1.141E+02	1.106E+04	0.31
		-1.349E+03	0.000E+00	1.616E+03			

STATIC ANALYSIS
CDF CMEX UPGRADE: FRAME ANALYSIS
LOADING 1 - FULL LOAD WITH BASE AND 7 CHAMBERS

BEAM	END	PT.	T SHEAR P/A	Y SHEAR Y BENDING	Z SHEAR Z BENDING	COMBINED	STRESS RATIO
353	FORE	1	0.000E+00	4.717E+02	1.752E+02		
			-8.466E+02	-2.912E+02	-3.137E+02	1.451E+03	0.04
	FORE	2	-2.925E+03	4.717E+02	1.752E+02		
			-8.466E+02	0.000E+00	-3.137E+02	5.198E+03	0.14
	FORE	3	-2.925E+03	4.717E+02	1.752E+02		
			-8.466E+02	0.000E+00	3.137E+02	5.094E+03	0.14
354	FORE	1	0.000E+00	4.815E+02	1.886E+02		
			-1.489E+03	6.407E+02	-7.181E+02	2.847E+03	0.08
	FORE	2	5.094E+03	4.815E+02	1.886E+02		
			-1.489E+03	0.000E+00	-7.181E+02	9.095E+03	0.25
	FORE	3	5.094E+03	4.815E+02	1.886E+02		
			-1.489E+03	0.000E+00	7.181E+02	8.857E+03	0.25
355	FORE	1	0.000E+00	2.957E+02	8.484E+01		
			-1.232E+01	-6.582E+02	-2.711E+03	3.381E+03	0.09
	FORE	2	-2.295E+03	2.957E+02	8.484E+01		
			-1.232E+01	0.000E+00	-2.711E+03	4.819E+03	0.13
	FORE	3	-2.295E+03	2.957E+02	8.484E+01		
			-1.232E+01	0.000E+00	2.711E+03	4.805E+03	0.13
356	FORE	1	0.000E+00	4.314E+02	-4.999E+00		
			-3.852E+02	3.749E+02	-3.844E+03	4.604E+03	0.13
	FORE	2	-2.888E+03	4.314E+02	-4.999E+00		
			-3.852E+02	0.000E+00	-3.844E+03	6.551E+03	0.18
	FORE	3	-2.888E+03	4.314E+02	-4.999E+00		
			-3.852E+02	0.000E+00	3.844E+03	6.082E+03	0.17

MAXIMUM STRESS = 5.143E+04 ON BEAM 263

STATIC ANALYSIS
CDF CMEX UPGRADE: FRAME ANALYSIS
LOADING 1 - FULL LOAD WITH BASE AND 7 CHAMBERS

T A B L E O F C O N T E N T S

	PAGE
LOAD CASE NO. 1: FULL LOAD WITH BASE AND 7 CHAMBERS	
DISPLACEMENTS	1
REACTION FORCES	5
MEMBER FORCES	39
BEAM STRESSES	55