CDF
CMEX
UPGRADE

STRUCTURAL
AND
MECHANICAL
DESIGN

CASE 2:

Deflections/Stresses on Outer Support Frame from Simulated Concentrated Loads

F R A M E

STATIC ANALYSIS

STRUCTURAL DYNAMICS RESEARCH CORPORATION

CDF CMEX UPGRADE: FRAME ANALYSIS

*** SPACE FRAME ANALYSIS ***

STRAIGHT BEAMS

BEAM	LENGTH	FORE END JOINT	AFT END JOINT	MATERIAL CODE	SECTION CODE	ROTATION ANGLE	TEMP.
237	22.88	248	236	3	7		
238	37.88	249	237	3	7		
239	32.77	236	238	3	7		
240	17.77	237	239	3	7		
241	38.97	248	247	1	9	45.0	
242	38.97	249	247	1	9	45.0	
243	38.97	238	247	1	9	45.0	
244	38.97	239	247	1	9	45.0	
245	54.58	238	239	3	8		
246	34.48	238	240	3	7		
247	60.05	239	241	3	7		
248	42.52	240	242	3	7		
249	16.95	241	243	3	7		
250	47.19	238	246	1	9	45.0	
251	47.19	239	246	1	9	45.0	
252	47.19	242	246	1	9	45.0	
253	47.19	243	246	1	9	45.0	
254	54.58	242	243	3	8		
255	11.75	242	244	3	7		
256	11.75	243	245	3	7		
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		

STATIC ANALYSIS
CDF CMEX UPGRADE: FRAME ANALYSIS

STRAIGHT BEAMS

BEAM	LENGTH	FORE END JOINT	AFT END JOINT	MATERIAL CODE	SECTION CODE	ROTATION ANGLE	TEMP.
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	
308	39.54	236	269	3	7		
309	21.17	237	270	3	7		
310	29.87	269	272	3	7		
311	66.25	270	273	3	7		
312	36.38	272	274	3	7		
313	56.18	273	276	3	7		
314	17.04	274	275	3	7		
315	62.11	269	270	3	8		
316	62.11	274	273	3	8		
317	12.83	241	271	3	7		
318	80.23	240	275	3	7		
319	82.28	271	276	3	7		
320	57.00	240	271	3	8		
321	55.54	275	276	3	8		
322	53.27	275	278	3	7		
323	12.69	276	277	3	7		
324	62.84	278	280	3	7		
325	58.76	277	279	3	7		
326	67.81	279	280	3	7		
327	26.87	280	281	1	1		
328	45.29	280	282	1	1		
329	14.92	278	283	1	1		
330	26.76	279	284	1	1		
331	21.91	275	285	1	1		
332	23.32	276	286	1	1		
333	14.92	272	287	1	1		
334	18.81	273	288	1	1		
345	106.83	271	275	1	9	45.0	
346	90.13	240	276	1	9	45.0	
347	66.14	269	273	1	9	45.0	
348	110.08	270	274	1	9	45.0	
357	30.77	269	296	1	1		

STATIC ANALYSIS
CDF CMEX UPGRADE: FRAME ANALYSIS

STRAIGHT BEAMS

BEAM	LENGTH	FORE END JOINT	AFT END JOINT	MATERIAL CODE	SECTION CODE	ROTATION ANGLE	TEMP.
358	23.46	270	295	1	1		
359	54.73	281	282	1	1		
360	54.73	283	284	1	1		
361	54.73	285	286	1	1		
362	54.73	287	288	1	1		
363	54.73	296	295	1	1		
364	54.73	290	289	1	1		
365	54.73	292	291	1	1		
366	54.73	294	293	1	1		

RIGID BEAM END OFFSET

BEAM	END	TYPE	OFFSET		
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
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

STATIC ANALYSIS
CDF CMEX UPGRADE: FRAME ANALYSIS

JOINT COORDINATES

JOINT	X	Y	Z
105	143.580	-116.166	200.360
106	171.635	-139.118	159.340
236	196.000	68.482	200.360
237	232.000	83.482	159.340
238	196.000	101.250	200.360
239	232.000	101.250	159.340
240	196.000	135.728	200.360
241	232.000	161.299	159.340
242	196.000	178.250	200.360
243	232.000	178.250	159.340
244	196.000	190.000	200.360
245	232.000	190.000	159.340
246	214.000	139.750	179.850
247	214.000	73.424	179.850
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
269	173.866	101.250	200.360
270	220.497	101.250	159.340
271	220.437	166.863	159.340
272	155.149	124.530	200.360
273	178.987	152.879	159.340
274	132.356	152.879	200.360
275	121.802	166.257	200.360
276	143.725	196.617	159.340
277	131.893	201.206	159.340
278	72.098	185.421	200.360
279	79.422	204.309	185.605
280	13.324	207.660	200.360
281	24.100	183.045	200.360
282	28.830	218.965	159.340
283	70.655	170.570	200.360
284	84.520	204.045	159.340
285	112.395	146.473	200.360

STATIC ANALYSIS
CDF CMEX UPGRADE: FRAME ANALYSIS

JOINT COORDINATES

JOINT	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

MATERIAL PROPERTIES

CODE	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

SPECIAL CROSS SECTIONS

CODE	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				

CROSS-SECTION PROPERTIES

CODE	AREA	MOMENTS OF INERTIA Z	MOMENTS OF INERTIA Y	SHEAR RATIO Y	SHEAR RATIO Z	TORSION CONSTANT	WARPING CONSTANT	DEG. 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

STRESS RECOVERY VALUES

CODE	COMBINED STRESS	POINT 1/3 C(Y)	C(Z)	R(EFF)	POINT 2/4 C(Y)	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 = 9.604E+03

C.G. LOCATION: X = 174.599 Y = 83.645 Z = 180.694

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: PRETENSION LOAD ON BLUE FRAME

ACCELERATION LOADING
A(X) = 0.000E+00 A(Y) = -1.000E+00 A(Z) = 0.000E+00

MID-SPAN FORCES

BEAM	DIR	COORDINATE	VALUE	DISTANCE	VALUE	DISTANCE
359	Y	ABSOLUTE	-1.38E+03	2.74E+01		
360	Y	ABSOLUTE	-1.38E+03	2.74E+01		
361	Y	ABSOLUTE	-1.38E+03	2.74E+01		
362	Y	ABSOLUTE	-1.38E+03	2.74E+01		
363	Y	ABSOLUTE	-1.38E+03	2.74E+01		
364	Y	ABSOLUTE	-1.38E+03	2.74E+01		
365	Y	ABSOLUTE	-1.38E+03	2.74E+01		
366	Y	ABSOLUTE	-1.38E+03	2.74E+01		

TOTAL APPLIED FORCES:
F(X) = 0.000E+00 F(Y) = -2.062E+04 F(Z) = 0.000E+00

MOMENTS ABOUT ORIGIN:
M(X) = 3.717E+06 M(Y) = 0.000E+00 M(Z) = -3.281E+06

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DEGREES OF FREEDOM =          336
MAXIMUM BANDWIDTH =            90
AVERAGE BANDWIDTH =            23
PROFILE SIZE =               7584

NUMBER OF JOINTS =             59
NUMBER OF ELEMENTS =           96
MAXIMUM JOINT NUMBER =        296
MAXIMUM ELEMENT NUMBER =      366
DIAGONAL ELEMENTS: AVERAGE = 1.574E+08 SMALLEST = 1.299E+03 ROW     333
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F R A M E

STATIC ANALYSIS

STRUCTURAL DYNAMICS RESEARCH CORPORATION

CDF CMEX UPGRADE: FRAME ANALYSIS

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: PRETENSION LOAD ON BLUE FRAME

JOINT	JOINT DISPLACEMENTS X	Y	Z	THETA(X)	THETA(Y)	THETA(Z)
105	0.000E+00	0.000E+00	0.000E+00	-3.628E-04	-8.939E-04	-7.433E-04
106	0.000E+00	0.000E+00	0.000E+00	-2.053E-04	-6.029E-04	-3.203E-04
236	-8.643E-01	-4.678E-03	-7.524E-01	-9.867E-03	-6.952E-04	1.147E-02
237	-1.010E+00	3.228E-06	-8.753E-01	-1.009E-02	-7.775E-04	1.176E-02
238	-1.264E+00	-4.516E-03	-1.094E+00	-1.081E-02	-8.859E-04	1.267E-02
239	-1.225E+00	2.661E-04	-1.060E+00	-1.061E-02	-8.802E-04	1.235E-02
240	-1.710E+00	-4.106E-03	-1.473E+00	-1.111E-02	-9.361E-04	1.281E-02
241	-1.996E+00	7.513E-04	-1.721E+00	-1.120E-02	-9.455E-04	1.285E-02
242	-2.253E+00	-4.230E-03	-1.947E+00	-1.115E-02	-9.759E-04	1.279E-02
243	-2.213E+00	7.721E-04	-1.912E+00	-1.121E-02	-9.639E-04	1.284E-02
244	-2.404E+00	-4.231E-03	-2.078E+00	-1.115E-02	-9.759E-04	1.279E-02
245	-2.364E+00	7.714E-04	-2.043E+00	-1.121E-02	-9.639E-04	1.284E-02
246	-1.733E+00	-1.976E-03	-1.498E+00	-1.108E-02	-1.095E-03	1.284E-02
247	-9.064E-01	-2.006E-03	-7.853E-01	-9.644E-03	-5.887E-04	1.102E-02
248	-6.235E-01	-3.986E-03	-5.421E-01	-8.414E-03	-4.200E-04	9.656E-03
249	-6.090E-01	6.244E-06	-5.292E-01	-8.122E-03	-4.139E-04	9.373E-03
250	-4.330E-01	-3.285E-03	-3.765E-01	-7.023E-03	-3.147E-04	8.074E-03
251	-4.613E-01	-3.761E-05	-4.011E-01	-7.135E-03	-3.283E-04	8.237E-03
252	-1.956E-01	-2.065E-03	-1.706E-01	-4.780E-03	-1.598E-04	5.513E-03
253	-1.896E-01	-7.184E-05	-1.655E-01	-4.704E-03	-1.861E-04	5.438E-03
254	-1.290E-01	-1.599E-03	-1.129E-01	-3.956E-03	-1.460E-04	4.559E-03
255	-1.035E-01	-7.829E-05	-9.146E-02	-3.541E-03	-1.525E-04	4.149E-03
256	0.000E+00	0.000E+00	0.000E+00	-1.254E-03	-6.321E-05	1.425E-03
257	0.000E+00	0.000E+00	0.000E+00	-1.244E-03	-1.455E-04	1.205E-03
258	3.842E-03	-6.291E-05	3.732E-03	-1.061E-03	-9.024E-05	1.201E-03
259	8.614E-03	-5.457E-04	1.363E-02	-4.714E-04	-3.086E-04	3.366E-04
260	0.000E+00	0.000E+00	0.000E+00	5.591E-04	-7.187E-05	-6.254E-04
261	0.000E+00	0.000E+00	0.000E+00	5.269E-04	-2.959E-04	-3.491E-04
265	-3.725E-01	-1.628E-03	-3.245E-01	-6.213E-03	-2.299E-04	7.069E-03
266	-6.421E-02	-5.367E-04	-5.655E-02	-2.677E-03	-7.989E-05	2.977E-03

STATIC ANALYSIS
CDF CMEX UPGRADE: FRAME ANALYSIS
LOADING 1 - PRETENSION LOAD ON BLUE FRAME

JOINT	X	Y	Z	THETA(X)	THETA(Y)	THETA(Z)
267	1.707E-02	-1.665E-05	1.500E-02	2.800E-04	1.544E-04	-3.087E-04
269	-1.258E+00	-2.723E-01	-1.107E+00	-1.068E-02	-9.169E-04	1.245E-02
270	-1.223E+00	-1.381E-01	-1.067E+00	-1.047E-02	-8.588E-04	1.218E-02
271	-2.067E+00	-1.470E-01	-1.795E+00	-1.114E-02	-9.506E-04	1.274E-02
272	-1.553E+00	-5.110E-01	-1.380E+00	-1.110E-02	-1.130E-03	1.292E-02
273	-1.875E+00	-6.634E-01	-1.671E+00	-1.115E-02	-1.192E-03	1.298E-02
274	-1.923E+00	-8.101E-01	-1.726E+00	-1.132E-02	-1.226E-03	1.319E-02
275	-2.100E+00	-9.502E-01	-1.891E+00	-1.140E-02	-1.291E-03	1.325E-02
276	-2.448E+00	-1.127E+00	-2.207E+00	-1.126E-02	-1.334E-03	1.322E-02
277	-2.509E+00	-1.285E+00	-2.276E+00	-1.123E-02	-1.528E-03	1.345E-02
278	-2.364E+00	-1.636E+00	-2.197E+00	-1.201E-02	-1.904E-03	1.413E-02
279	-2.602E+00	-1.712E+00	-2.409E+00	-1.189E-02	-2.062E-03	1.419E-02
280	-2.681E+00	-2.475E+00	-2.591E+00	-1.245E-02	-2.145E-03	1.429E-02
281	-2.331E+00	-2.322E+00	-2.256E+00	-1.289E-02	-1.855E-03	1.422E-02
282	-2.765E+00	-2.777E+00	-2.706E+00	-1.269E-02	-1.678E-03	1.393E-02
283	-2.154E+00	-1.656E+00	-2.021E+00	-1.214E-02	-1.989E-03	1.412E-02
284	-2.544E+00	-1.954E+00	-2.396E+00	-1.196E-02	-2.077E-03	1.417E-02
285	-1.837E+00	-1.075E+00	-1.678E+00	-1.146E-02	-1.348E-03	1.328E-02
286	-2.165E+00	-1.250E+00	-1.977E+00	-1.130E-02	-1.290E-03	1.325E-02
287	-1.396E+00	-6.234E-01	-1.254E+00	-1.128E-02	-1.138E-03	1.292E-02
288	-1.635E+00	-7.124E-01	-1.470E+00	-1.115E-02	-1.181E-03	1.299E-02
289	-4.613E-01	-1.077E-01	-4.052E-01	-7.120E-03	-2.947E-04	8.250E-03
290	-4.330E-01	-1.081E-01	-3.805E-01	-7.086E-03	-2.847E-04	8.067E-03
291	-1.035E-01	-5.463E-02	-9.330E-02	-3.473E-03	-1.296E-04	4.183E-03
292	-1.290E-01	-6.089E-02	-1.149E-01	-3.955E-03	-1.429E-04	4.565E-03
293	8.714E-03	-1.293E-02	4.652E-03	1.537E-04	-1.979E-04	4.518E-04
294	3.754E-03	-3.144E-02	6.452E-03	-7.255E-04	2.834E-04	1.236E-03
295	-1.018E+00	-3.393E-01	-9.048E-01	-1.047E-02	-7.425E-04	1.223E-02
296	-8.768E-01	-3.134E-01	-7.805E-01	-1.085E-02	-7.260E-04	1.243E-02

MAXIMUM DISPLACEMENTS

JOINT	282	282	282	281	280	280
VALUE	-2.765E+00	-2.777E+00	-2.706E+00	-1.289E-02	-2.145E-03	1.429E-02

STATIC ANALYSIS
CDF CMEX UPGRADE: FRAME ANALYSIS
LOADING 1 - PRETENSION LOAD ON BLUE FRAME

JOINT REACTIONS

JOINT	F(X)	F(Y)	F(Z)	M(X)	M(Y)	M(Z)
105	-1.113E+04	-7.780E+03	-7.528E+02	0.000E+00	0.000E+00	0.000E+00
106	-1.812E+04	-1.586E+04	-2.005E+02	0.000E+00	0.000E+00	0.000E+00
256	1.601E+04	2.402E+04	1.813E+03	0.000E+00	0.000E+00	0.000E+00
257	1.849E+04	1.582E+04	1.722E+03	0.000E+00	0.000E+00	0.000E+00
260	-3.364E+03	5.437E+02	-1.354E+03	0.000E+00	0.000E+00	0.000E+00
261	-1.888E+03	3.876E+03	-1.228E+03	0.000E+00	0.000E+00	0.000E+00
TOTAL	-7.704E-06	2.062E+04	-5.580E-06	0.000E+00	0.000E+00	0.000E+00

SUMMATION OF FORCES AT JOINTS

JOINT: 105

BEAM	F(X)	F(Y)	F(Z)	M(X)	M(Y)	M(Z)
279	-1.113E+04	-7.780E+03	-7.528E+02	4.339E-13	1.581E-12	-8.529E-06

JOINT: 106

BEAM	F(X)	F(Y)	F(Z)	M(X)	M(Y)	M(Z)
280	-1.812E+04	-1.586E+04	-2.005E+02	3.050E-13	-3.373E-13	2.362E-05

JOINT: 236

BEAM	F(X)	F(Y)	F(Z)	M(X)	M(Y)	M(Z)
237	2.363E+03	-1.297E+04	-1.278E+03	-1.392E+05	-2.641E+04	4.578E+05
239	5.193E+03	-2.050E+03	1.389E+03	9.217E+04	1.277E+04	-2.824E+05
308	-7.556E+03	1.502E+04	-1.117E+02	4.703E+04	1.364E+04	-1.754E+05
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	0.000E+00	-9.766E-04	5.341E-05	0.000E+00	9.766E-04	0.000E+00

JOINT: 237

BEAM	F(X)	F(Y)	F(Z)	M(X)	M(Y)	M(Z)
238	-7.207E+02	4.294E+01	-4.336E+02	-1.177E+05	-2.107E+04	3.281E+05
240	3.891E+03	-6.330E+03	8.098E+02	7.861E+04	1.269E+04	-2.142E+05
309	-3.170E+03	6.287E+03	-3.761E+02	3.911E+04	8.381E+03	-1.138E+05
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	0.000E+00	0.000E+00	-3.052E-05	-3.906E-03	0.000E+00	0.000E+00

STATIC ANALYSIS
CDF CMEX UPGRADE: FRAME ANALYSIS
LOADING 1 - PRETENSION LOAD ON BLUE FRAME

JOINT: 238

BEAM	F(X)	F(Y)	F(Z)	M(X)	M(Y)	M(Z)
239	-5.193E+03	2.184E+03	-1.389E+03	-4.664E+04	-1.277E+04	1.122E+05
243	-8.026E+02	1.183E+03	8.178E+02	4.319E+02	3.296E+02	-4.000E+01
245	-6.691E+02	7.091E+02	2.399E+02	1.036E+04	9.249E+03	1.807E+04
246	6.224E+03	-5.054E+03	8.449E+02	3.565E+04	3.197E+03	-1.304E+05
250	4.403E+02	9.775E+02	-5.132E+02	2.001E+02	-1.688E+00	1.411E+02
	9.155E-05	6.104E-05	-6.104E-05	-2.930E-03	-3.660E-05	1.617E-03

JOINT: 239

BEAM	F(X)	F(Y)	F(Z)	M(X)	M(Y)	M(Z)
240	-3.891E+03	6.403E+03	-8.098E+02	-6.422E+04	-1.269E+04	1.451E+05
244	-8.393E+02	-1.264E+03	8.935E+02	4.607E+02	-2.784E+02	1.209E+02
245	6.691E+02	-5.486E+02	-2.399E+02	1.543E+04	9.561E+03	4.571E+03
247	3.455E+03	-3.355E+03	7.959E+02	4.735E+04	2.385E+03	-1.487E+05
251	6.062E+02	-1.235E+03	-6.398E+02	9.841E+02	1.025E+03	-1.143E+03
	-5.493E-04	3.662E-04	0.000E+00	-4.150E-03	-6.104E-04	1.331E-02

JOINT: 240

BEAM	F(X)	F(Y)	F(Z)	M(X)	M(Y)	M(Z)
246	-6.224E+03	5.194E+03	-8.449E+02	-6.518E+03	-3.197E+03	-8.423E+04
248	-3.469E+02	1.345E+03	2.548E+02	8.022E+03	2.056E+03	1.016E+04
318	5.562E+03	-4.872E+03	-4.286E+02	1.911E+03	-5.028E+03	7.035E+04
320	-2.838E+02	-1.585E+02	9.696E+00	-3.150E+03	6.218E+03	3.511E+03
346	1.293E+03	-1.508E+03	1.009E+03	-2.650E+02	-4.888E+01	2.140E+02
	2.441E-04	1.221E-04	1.221E-04	1.831E-04	-4.845E-04	7.980E-03

JOINT: 241

BEAM	F(X)	F(Y)	F(Z)	M(X)	M(Y)	M(Z)
247	-3.455E+03	3.600E+03	-7.959E+02	4.479E+02	-2.385E+03	-5.881E+04
249	-6.996E+02	-4.937E+02	8.982E+02	9.024E+03	2.390E+03	7.916E+03
317	4.155E+03	-3.106E+03	-1.023E+02	-9.472E+03	-5.763E+00	5.089E+04
	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.988E-04	-3.906E-03

STATIC ANALYSIS
CDF CMEX UPGRADE: FRAME ANALYSIS
LOADING 1 - PRETENSION LOAD ON BLUE FRAME

JOINT: 242

BEAM	F(X)	F(Y)	F(Z)	M(X)	M(Y)	M(Z)
248	3.469E+02	-1.172E+03	-2.548E+02	2.812E+03	-2.056E+03	4.592E+03
252	-5.977E+02	1.257E+03	6.632E+02	-4.528E+01	1.803E+02	-3.569E+02
254	2.508E+02	-1.332E+02	-4.084E+02	-2.767E+03	1.876E+03	-4.235E+03
255	0.000E+00	4.789E+01	-2.910E-11	-1.746E-10	0.000E+00	-1.572E-09
	0.000E+00	4.196E-05	3.052E-05	-1.746E-10	1.221E-04	4.883E-04

JOINT: 243

BEAM	F(X)	F(Y)	F(Z)	M(X)	M(Y)	M(Z)
249	6.996E+02	5.628E+02	-8.982E+02	6.202E+03	-2.390E+03	3.944E+03
253	-4.488E+02	-9.044E+02	4.898E+02	-2.128E+02	-1.492E+02	-4.942E+02
254	-2.508E+02	2.937E+02	4.084E+02	-5.989E+03	2.540E+03	-3.449E+03
256	-2.183E-10	4.789E+01	-4.729E-11	-6.112E-10	0.000E+00	2.445E-09
	-3.052E-05	-3.433E-05	3.052E-05	-6.112E-10	0.000E+00	-2.441E-04

JOINT: 244

BEAM	F(X)	F(Y)	F(Z)	M(X)	M(Y)	M(Z)
255	0.000E+00	-1.323E-06	2.910E-11	-2.328E-10	0.000E+00	-3.027E-09

JOINT: 245

BEAM	F(X)	F(Y)	F(Z)	M(X)	M(Y)	M(Z)
256	2.183E-10	-1.323E-06	4.729E-11	-1.164E-09	0.000E+00	9.313E-10

JOINT: 246

BEAM	F(X)	F(Y)	F(Z)	M(X)	M(Y)	M(Z)
250	-4.403E+02	-9.536E+02	5.132E+02	-1.547E+02	2.079E+02	2.859E+02
251	-6.062E+02	1.259E+03	6.398E+02	-4.503E+01	-1.089E+02	2.469E+02
252	5.977E+02	-1.233E+03	-6.632E+02	5.020E+01	1.407E+02	-2.415E+02
253	4.488E+02	9.282E+02	-4.898E+02	1.495E+02	-2.397E+02	-2.913E+02
	9.155E-05	0.000E+00	0.000E+00	0.000E+00	-1.526E-05	6.104E-05

JOINT: 247

BEAM	F(X)	F(Y)	F(Z)	M(X)	M(Y)	M(Z)
241	-8.657E+02	-1.249E+03	9.092E+02	-6.761E+02	8.530E+02	5.275E+02
242	-7.762E+02	1.129E+03	8.021E+02	-1.015E+03	-1.410E+03	1.181E+03
243	8.026E+02	-1.164E+03	-8.178E+02	8.813E+02	1.410E+03	-1.168E+03
244	8.393E+02	1.284E+03	-8.935E+02	8.103E+02	-8.530E+02	-5.405E+02
	-6.104E-05	-1.221E-04	6.104E-05	0.000E+00	-1.221E-04	0.000E+00

STATIC ANALYSIS
CDF CMEX UPGRADE: FRAME ANALYSIS
LOADING 1 - PRETENSION LOAD ON BLUE FRAME

JOINT: 248

BEAM	F(X)	F(Y)	F(Z)	M(X)	M(Y)	M(Z)
237	-2.363E+03	1.306E+04	1.278E+03	1.684E+05	2.641E+04	-4.037E+05
241	8.657E+02	1.269E+03	-9.092E+02	1.203E+03	-2.242E+03	-1.950E+03
260	1.084E+03	-1.864E+01	-5.217E+02	-7.587E+03	-1.304E+04	4.564E+03
261	2.622E+02	-1.397E+04	3.718E+02	-1.608E+05	-1.075E+04	4.015E+05
295	1.503E+02	-3.348E+02	-2.186E+02	-1.244E+03	-3.869E+02	-3.833E+02
	0.000E+00	5.798E-04	-6.104E-05	-6.836E-03	-1.007E-03	-7.324E-03

JOINT: 249

BEAM	F(X)	F(Y)	F(Z)	M(X)	M(Y)	M(Z)
238	7.207E+02	1.114E+02	4.336E+02	1.341E+05	2.107E+04	-3.554E+05
242	7.762E+02	-1.109E+03	-8.021E+02	1.649E+03	2.893E+03	-2.636E+03
260	-1.084E+03	1.614E+02	5.217E+02	3.894E+03	-1.266E+04	-7.806E+03
262	-1.827E+02	1.160E+03	-3.351E+02	-1.399E+05	-1.122E+04	3.656E+05
296	-2.299E+02	-3.231E+02	1.819E+02	2.238E+02	-8.856E+01	2.179E+02
	-1.526E-05	3.052E-05	6.104E-05	8.148E-03	7.858E-04	-1.129E-03

JOINT: 250

BEAM	F(X)	F(Y)	F(Z)	M(X)	M(Y)	M(Z)
261	-2.622E+02	1.406E+04	-3.718E+02	1.528E+05	1.075E+04	-3.959E+05
263	3.682E+00	8.799E+02	1.174E+02	7.039E+03	-1.023E+03	-5.552E+03
265	2.586E+02	-1.494E+04	2.544E+02	-1.599E+05	-9.725E+03	4.014E+05
	0.000E+00	9.766E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00

JOINT: 251

BEAM	F(X)	F(Y)	F(Z)	M(X)	M(Y)	M(Z)
262	1.827E+02	-1.091E+03	3.351E+02	1.455E+05	1.122E+04	-3.687E+05
264	-3.682E+00	6.393E+02	-1.174E+02	-1.534E+03	-3.353E+03	-9.727E+03
266	-1.790E+02	4.519E+02	-2.177E+02	-1.440E+05	-7.863E+03	3.784E+05
	0.000E+00	0.000E+00	-1.526E-05	0.000E+00	-4.883E-04	0.000E+00

JOINT: 252

BEAM	F(X)	F(Y)	F(Z)	M(X)	M(Y)	M(Z)
265	-2.586E+02	1.508E+04	-2.544E+02	1.510E+05	9.725E+03	-3.924E+05
267	-2.928E+02	1.551E+02	6.502E+02	6.775E+02	-4.879E+03	3.521E+03
268	6.426E+01	-1.516E+04	1.668E+02	-1.521E+05	-2.291E+03	3.911E+05
297	2.592E+02	3.738E+02	-2.457E+02	1.437E+03	-2.306E+03	-1.916E+03
299	2.279E+02	-4.527E+02	-3.168E+02	-9.550E+02	-2.484E+02	-3.354E+02
	1.526E-05	-7.324E-04	-3.052E-05	-1.044E-02	3.052E-05	2.222E-02

STATIC ANALYSIS
CDF CMEX UPGRADE: FRAME ANALYSIS
LOADING 1 - PRETENSION LOAD ON BLUE FRAME

JOINT: 253

BEAM	F(X)	F(Y)	F(Z)	M(X)	M(Y)	M(Z)
266	1.790E+02	-2.901E+02	2.177E+02	1.526E+05	7.863E+03	-3.855E+05
267	2.928E+02	-1.235E+01	-6.502E+02	2.758E+03	-6.517E+03	-5.061E+02
269	-1.170E+02	1.911E+02	2.024E+01	-1.572E+05	-4.108E+03	3.880E+05
298	-1.796E+02	3.636E+02	2.825E+02	1.626E+03	2.697E+03	-2.442E+03
300	-1.752E+02	-2.523E+02	1.298E+02	1.866E+02	6.566E+01	4.085E+02
	0.000E+00	0.000E+00	0.000E+00	-4.608E-03	-7.629E-06	1.801E-03

JOINT: 254

BEAM	F(X)	F(Y)	F(Z)	M(X)	M(Y)	M(Z)
268	-6.426E+01	1.521E+04	-1.668E+02	1.499E+05	2.291E+03	-3.903E+05
270	-1.647E+02	6.051E+02	2.375E+02	-5.783E+01	1.914E+03	-7.348E+03
272	2.289E+02	-1.582E+04	-7.068E+01	-1.499E+05	-4.205E+03	3.976E+05
	0.000E+00	0.000E+00	0.000E+00	1.563E-02	0.000E+00	0.000E+00

JOINT: 255

BEAM	F(X)	F(Y)	F(Z)	M(X)	M(Y)	M(Z)
269	1.170E+02	-1.180E+02	-2.024E+01	1.568E+05	4.108E+03	-3.901E+05
271	1.647E+02	9.141E+02	-2.375E+02	-7.388E+03	-3.708E+03	-1.859E+04
273	-2.816E+02	-7.961E+02	2.577E+02	-1.495E+05	-4.000E+02	4.087E+05
	0.000E+00	0.000E+00	0.000E+00	-1.563E-02	-4.578E-04	0.000E+00

JOINT: 256

BEAM	F(X)	F(Y)	F(Z)	M(X)	M(Y)	M(Z)
272	-2.289E+02	1.600E+04	7.068E+01	1.529E+05	4.205E+03	-3.877E+05
274	5.986E+02	-4.703E+02	5.254E+02	-9.651E+03	-1.917E+04	-3.708E+03
275	1.543E+04	8.201E+03	1.383E+03	-1.440E+05	1.796E+04	3.929E+05
301	2.077E+02	2.852E+02	-1.793E+02	1.486E+03	-2.417E+03	-2.015E+03
303	2.956E+00	1.100E+01	1.394E+01	-7.542E+02	-5.818E+02	5.368E+02
	1.601E+04	2.402E+04	1.813E+03	1.160E-03	1.465E-03	1.666E-02

JOINT: 257

BEAM	F(X)	F(Y)	F(Z)	M(X)	M(Y)	M(Z)
273	2.816E+02	9.531E+02	-2.577E+02	1.395E+05	4.000E+02	-4.196E+05
274	-5.986E+02	6.131E+02	-5.254E+02	-1.257E+04	-2.430E+04	-1.579E+04
276	1.906E+04	1.371E+04	2.136E+03	-1.274E+05	2.086E+04	4.378E+05
302	-2.603E+02	4.992E+02	3.663E+02	1.345E+03	2.593E+03	-2.543E+03
304	7.725E+00	4.206E+01	2.291E+00	-9.453E+02	4.457E+02	6.701E+01
	1.849E+04	1.582E+04	1.722E+03	-4.944E-03	7.324E-04	-1.248E-02

STATIC ANALYSIS
CDF CMEX UPGRADE: FRAME ANALYSIS
LOADING 1 - PRETENSION LOAD ON BLUE FRAME

JOINT: 258

BEAM	F(X)	F(Y)	F(Z)	M(X)	M(Y)	M(Z)
275	-1.543E+04	-8.188E+03	-1.383E+03	1.394E+05	-1.796E+04	-3.419E+05
277	9.179E+02	4.125E+02	-7.189E+02	-2.272E+03	-2.097E+04	-1.031E+04
279	1.113E+04	7.972E+03	7.528E+02	-3.426E+04	3.946E+04	9.352E+04
281	3.380E+03	-1.967E+02	1.349E+03	-1.029E+05	-5.257E+02	2.587E+05
	-4.883E-04	-5.951E-04	-1.221E-04	-7.813E-03	-2.686E-03	-3.125E-02

JOINT: 259

BEAM	F(X)	F(Y)	F(Z)	M(X)	M(Y)	M(Z)
276	-1.906E+04	-1.364E+04	-2.136E+03	9.069E+04	-2.086E+04	-1.106E+05
278	-9.179E+02	1.162E+03	7.189E+02	-3.014E+03	9.199E+03	-3.143E+04
280	1.812E+04	1.609E+04	2.005E+02	-1.095E+04	1.210E+04	2.439E+04
282	1.862E+03	-3.610E+03	1.217E+03	-7.673E+04	-4.430E+02	1.176E+05
	1.099E-03	2.441E-04	0.000E+00	-7.813E-03	-6.409E-04	0.000E+00

JOINT: 260

BEAM	F(X)	F(Y)	F(Z)	M(X)	M(Y)	M(Z)
281	-3.380E+03	5.093E+02	-1.349E+03	-5.387E+02	5.257E+02	5.348E+02
305	1.623E+01	3.444E+01	-5.115E+00	5.387E+02	-5.257E+02	-5.348E+02
	-3.364E+03	5.437E+02	-1.354E+03	-6.104E-05	0.000E+00	0.000E+00

JOINT: 261

BEAM	F(X)	F(Y)	F(Z)	M(X)	M(Y)	M(Z)
282	-1.862E+03	3.866E+03	-1.217E+03	2.825E+02	4.430E+02	-6.588E+02
306	-2.691E+01	1.042E+01	-1.112E+01	-2.825E+02	-4.430E+02	6.588E+02
	-1.888E+03	3.876E+03	-1.228E+03	0.000E+00	0.000E+00	0.000E+00

JOINT: 265

BEAM	F(X)	F(Y)	F(Z)	M(X)	M(Y)	M(Z)
295	-1.503E+02	3.547E+02	2.186E+02	3.460E+02	1.238E+03	-1.577E+03
296	2.299E+02	3.429E+02	-1.819E+02	1.471E+03	-1.354E+03	-7.161E+02
297	-2.592E+02	-3.539E+02	2.457E+02	-9.131E+02	1.412E+03	1.145E+03
298	1.796E+02	-3.437E+02	-2.825E+02	-9.037E+02	-1.297E+03	1.148E+03
	0.000E+00	3.052E-05	0.000E+00	6.104E-05	-1.221E-04	-1.221E-04

STATIC ANALYSIS
CDF CMEX UPGRADE: FRAME ANALYSIS
LOADING 1 - PRETENSION LOAD ON BLUE FRAME

JOINT: 266

BEAM	F(X)	F(Y)	F(Z)	M(X)	M(Y)	M(Z)
299	-2.279E+02	4.726E+02	3.168E+02	4.120E+02	1.277E+03	-1.558E+03
300	1.752E+02	2.721E+02	-1.298E+02	1.526E+03	-1.323E+03	-6.356E+02
301	-2.077E+02	-2.653E+02	1.793E+02	-9.018E+02	1.385E+03	1.106E+03
302	2.603E+02	-4.793E+02	-3.663E+02	-1.037E+03	-1.340E+03	1.088E+03
	-3.052E-05	6.104E-05	3.052E-05	0.000E+00	-1.221E-04	1.221E-04

JOINT: 267

BEAM	F(X)	F(Y)	F(Z)	M(X)	M(Y)	M(Z)
303	-2.956E+00	1.348E+01	-1.394E+01	1.709E+02	2.702E+02	-4.409E+02
304	-7.725E+00	-1.758E+01	-2.291E+00	2.421E+02	-2.460E+02	-2.947E+02
305	-1.623E+01	-9.961E+00	5.115E+00	-2.880E+02	2.849E+02	2.853E+02
306	2.691E+01	1.406E+01	1.112E+01	-1.250E+02	-3.091E+02	4.503E+02
	-1.907E-06	9.537E-07	0.000E+00	-1.526E-05	0.000E+00	0.000E+00

JOINT: 269

BEAM	F(X)	F(Y)	F(Z)	M(X)	M(Y)	M(Z)
308	7.556E+03	-1.485E+04	1.117E+02	-5.069E+04	-1.611E+04	9.244E+04
310	-7.363E+03	1.158E+04	6.735E+02	4.158E+04	2.421E+04	-1.069E+05
315	-3.201E+02	5.296E+02	5.189E+02	6.558E+03	-6.948E+03	1.580E+04
347	1.980E+02	1.855E+03	-1.435E+03	1.159E+03	-6.411E+02	-6.336E+02
357	-7.083E+01	8.921E+02	1.304E+02	1.390E+03	-5.057E+02	-7.148E+02
	1.831E-04	-3.662E-04	-7.629E-05	1.221E-03	1.678E-03	-3.662E-04

JOINT: 270

BEAM	F(X)	F(Y)	F(Z)	M(X)	M(Y)	M(Z)
309	3.170E+03	-6.201E+03	3.761E+02	-4.579E+04	-1.271E+04	9.835E+04
311	-3.622E+03	5.849E+03	2.977E+02	3.224E+04	1.882E+04	-9.159E+04
315	3.201E+02	-3.470E+02	-5.189E+02	1.142E+04	-4.116E+03	4.642E+03
348	6.089E+01	-4.911E+00	-2.454E+01	-5.383E+01	6.737E+02	-9.914E+02
358	7.083E+01	7.040E+02	-1.304E+02	2.179E+03	-2.672E+03	-1.041E+04
	3.815E-05	-2.441E-04	7.629E-05	-2.930E-03	-4.883E-04	3.906E-03

STATIC ANALYSIS
CDF CMEX UPGRADE: FRAME ANALYSIS
LOADING 1 - PRETENSION LOAD ON BLUE FRAME

JOINT: 271

BEAM	F(X)	F(Y)	F(Z)	M(X)	M(Y)	M(Z)
317	-4.155E+03	3.158E+03	1.023E+02	8.903E+03	-1.177E+03	-3.779E+04
319	4.615E+03	-3.497E+03	-3.936E+02	-2.326E+03	-3.826E+03	3.859E+04
320	2.838E+02	3.260E+02	-9.696E+00	-6.484E+03	5.186E+03	-5.950E+02
345	-7.442E+02	1.307E+01	3.010E+02	-9.227E+01	-1.830E+02	-2.032E+02
	6.104E-05	3.910E-05	0.000E+00	1.305E-03	-1.831E-04	7.477E-04

JOINT: 272

BEAM	F(X)	F(Y)	F(Z)	M(X)	M(Y)	M(Z)
310	7.363E+03	-1.146E+04	-6.735E+02	-2.591E+04	-1.160E+04	6.275E+04
312	-7.288E+03	1.066E+04	4.968E+02	2.166E+04	1.232E+04	-5.833E+04
333	-7.445E+01	7.959E+02	1.767E+02	4.241E+03	-7.169E+02	-4.413E+03
	4.044E-04	-1.831E-04	0.000E+00	9.766E-04	1.160E-03	-4.883E-03

JOINT: 273

BEAM	F(X)	F(Y)	F(Z)	M(X)	M(Y)	M(Z)
311	3.622E+03	-5.579E+03	-2.977E+02	-1.687E+04	-6.463E+03	4.139E+04
313	-4.659E+03	6.725E+03	2.089E+02	9.430E+03	9.679E+03	-3.847E+04
316	1.161E+03	-8.333E+01	-1.169E+03	5.548E+03	-2.641E+03	-3.669E+02
334	7.445E+01	7.590E+02	-1.767E+02	1.694E+03	-4.410E+02	-2.388E+03
347	-1.980E+02	-1.822E+03	1.435E+03	1.968E+02	-1.347E+02	-1.735E+02
	1.831E-04	-1.221E-04	-1.221E-04	-1.068E-04	2.441E-04	-1.831E-04

JOINT: 274

BEAM	F(X)	F(Y)	F(Z)	M(X)	M(Y)	M(Z)
312	7.288E+03	-1.051E+04	-4.968E+02	-7.581E+03	-9.936E+02	2.368E+04
314	-6.067E+03	1.018E+04	-6.967E+02	5.836E+03	5.597E+03	-3.292E+04
316	-1.161E+03	2.659E+02	1.169E+03	1.615E+03	-4.264E+03	8.509E+03
348	-6.089E+01	6.056E+01	2.454E+01	1.295E+02	-3.391E+02	7.328E+02
	1.602E-04	-4.349E-04	-6.104E-05	1.678E-04	3.662E-04	3.662E-04

JOINT: 275

BEAM	F(X)	F(Y)	F(Z)	M(X)	M(Y)	M(Z)
314	6.067E+03	-1.012E+04	6.967E+02	-1.516E+04	-1.295E+04	6.958E+03
318	-5.562E+03	5.199E+03	4.286E+02	-1.500E+04	-2.677E+04	1.335E+05
321	9.381E+02	1.622E+03	-1.667E+03	3.312E+03	4.845E+02	3.520E+03
322	-1.950E+03	2.753E+03	3.725E+02	3.000E+04	3.767E+04	-1.375E+05
331	-2.375E+02	5.001E+02	4.702E+02	-3.646E+03	2.225E+03	-7.628E+03
345	7.442E+02	4.093E+01	-3.010E+02	4.812E+02	-6.552E+02	1.126E+03
	-6.104E-05	1.755E-04	1.221E-04	-3.967E-04	-2.441E-03	-8.423E-03

STATIC ANALYSIS
CDF CMEX UPGRADE: FRAME ANALYSIS
LOADING 1 - PRETENSION LOAD ON BLUE FRAME

JOINT: 276

BEAM	F(X)	F(Y)	F(Z)	M(X)	M(Y)	M(Z)
313	4.659E+03	-6.496E+03	-2.089E+02	-2.950E+02	-2.314E+03	9.125E+03
319	-4.615E+03	3.833E+03	3.936E+02	-9.385E+03	-2.637E+04	1.052E+05
321	-9.381E+02	-1.459E+03	1.667E+03	9.256E+03	-2.422E+03	1.763E+03
323	1.950E+03	1.491E+03	-3.725E+02	-4.613E+03	3.416E+04	-1.114E+05
332	2.375E+02	1.078E+03	-4.702E+02	6.140E+03	-2.789E+03	-5.771E+03
346	-1.293E+03	1.554E+03	-1.009E+03	-1.103E+03	-2.608E+02	1.070E+03
	3.662E-04	-2.441E-04	0.000E+00	3.662E-04	-2.136E-04	-1.221E-04

JOINT: 277

BEAM	F(X)	F(Y)	F(Z)	M(X)	M(Y)	M(Z)
323	-1.950E+03	-1.439E+03	3.725E+02	2.903E+03	-3.856E+04	8.515E+04
325	1.950E+03	1.439E+03	-3.725E+02	-2.903E+03	3.856E+04	-8.515E+04
	0.000E+00	-1.221E-04	-3.052E-05	2.441E-04	-3.906E-03	0.000E+00

JOINT: 278

BEAM	F(X)	F(Y)	F(Z)	M(X)	M(Y)	M(Z)
322	1.950E+03	-2.536E+03	-3.725E+02	-2.287E+04	-1.915E+04	4.341E+04
324	-1.868E+03	1.832E+03	2.771E+02	1.885E+04	1.786E+04	-4.395E+04
329	-8.227E+01	7.039E+02	9.547E+01	4.014E+03	1.290E+03	5.379E+02
	0.000E+00	-1.221E-04	2.289E-05	-9.766E-04	-1.343E-03	-6.104E-04

JOINT: 279

BEAM	F(X)	F(Y)	F(Z)	M(X)	M(Y)	M(Z)
325	-1.950E+03	-1.199E+03	3.725E+02	-3.290E+04	-6.894E+03	9.886E+03
326	1.868E+03	3.325E+02	-2.771E+02	1.589E+04	7.669E+03	-1.323E+04
330	8.227E+01	8.669E+02	-9.547E+01	1.701E+04	-7.751E+02	3.343E+03
	0.000E+00	0.000E+00	7.629E-06	0.000E+00	3.052E-04	7.324E-04

JOINT: 280

BEAM	F(X)	F(Y)	F(Z)	M(X)	M(Y)	M(Z)
324	1.868E+03	-1.576E+03	-2.771E+02	-1.269E+04	-1.577E+03	-1.466E+04
326	-1.868E+03	-5.616E+01	2.771E+02	-1.969E+04	1.577E+03	-5.875E+03
327	1.106E+02	8.622E+02	-2.450E+02	8.902E+03	2.425E+03	1.206E+04
328	-1.106E+02	7.699E+02	2.450E+02	2.348E+04	-2.425E+03	8.479E+03
	9.918E-05	0.000E+00	-1.526E-05	0.000E+00	2.441E-04	-9.766E-04

STATIC ANALYSIS
CDF CMEX UPGRADE: FRAME ANALYSIS
LOADING 1 - PRETENSION LOAD ON BLUE FRAME

JOINT: 281

BEAM	F(X)	F(Y)	F(Z)	M(X)	M(Y)	M(Z)
327	-1.106E+02	-8.082E+02	2.450E+02	-2.871E+03	2.159E+02	-3.386E+02
359	1.106E+02	8.082E+02	-2.450E+02	2.871E+03	-2.159E+02	3.386E+02
	7.629E-06	0.000E+00	-1.526E-05	0.000E+00	7.629E-05	3.052E-05

JOINT: 282

BEAM	F(X)	F(Y)	F(Z)	M(X)	M(Y)	M(Z)
328	1.106E+02	-6.789E+02	-2.450E+02	9.009E+03	3.161E+03	4.004E+03
359	-1.106E+02	6.789E+02	2.450E+02	-9.009E+03	-3.161E+03	-4.004E+03
	1.526E-05	0.000E+00	3.052E-05	0.000E+00	2.441E-04	0.000E+00

JOINT: 283

BEAM	F(X)	F(Y)	F(Z)	M(X)	M(Y)	M(Z)
329	8.227E+01	-6.739E+02	-9.547E+01	-5.431E+03	-1.152E+03	-2.754E+03
360	-8.227E+01	6.739E+02	9.547E+01	5.431E+03	1.152E+03	2.754E+03
	0.000E+00	6.104E-05	1.526E-05	0.000E+00	-2.441E-04	-2.441E-04

JOINT: 284

BEAM	F(X)	F(Y)	F(Z)	M(X)	M(Y)	M(Z)
330	-8.227E+01	-8.131E+02	9.547E+01	5.080E+03	-8.988E+02	9.613E+02
360	8.227E+01	8.131E+02	-9.547E+01	-5.080E+03	8.988E+02	-9.613E+02
	-7.629E-06	0.000E+00	1.526E-05	0.000E+00	6.104E-05	6.104E-05

JOINT: 285

BEAM	F(X)	F(Y)	F(Z)	M(X)	M(Y)	M(Z)
331	2.375E+02	-4.561E+02	-4.702E+02	-5.656E+03	2.198E+03	-1.569E+03
361	-2.375E+02	4.561E+02	4.702E+02	5.656E+03	-2.198E+03	1.569E+03
	-1.526E-05	-3.052E-05	0.000E+00	0.000E+00	2.441E-04	0.000E+00

JOINT: 286

BEAM	F(X)	F(Y)	F(Z)	M(X)	M(Y)	M(Z)
332	-2.375E+02	-1.031E+03	4.702E+02	3.920E+03	-1.572E+03	1.074E+03
361	2.375E+02	1.031E+03	-4.702E+02	-3.920E+03	1.572E+03	-1.074E+03
	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

STATIC ANALYSIS
CDF CMEX UPGRADE: FRAME ANALYSIS
LOADING 1 - PRETENSION LOAD ON BLUE FRAME

JOINT: 287

BEAM	F(X)	F(Y)	F(Z)	M(X)	M(Y)	M(Z)
333	7.445E+01	-7.659E+02	-1.767E+02	-6.385E+03	2.249E+03	-3.263E+03
362	-7.445E+01	7.659E+02	1.767E+02	6.385E+03	-2.249E+03	3.263E+03
	3.052E-05	0.000E+00	1.526E-05	-4.883E-04	-2.441E-04	0.000E+00

JOINT: 288

BEAM	F(X)	F(Y)	F(Z)	M(X)	M(Y)	M(Z)
334	-7.445E+01	-7.212E+02	1.767E+02	1.562E+03	-2.246E+02	9.722E+02
362	7.445E+01	7.212E+02	-1.767E+02	-1.562E+03	2.246E+02	-9.722E+02
	0.000E+00	0.000E+00	0.000E+00	-1.221E-04	4.578E-05	0.000E+00

JOINT: 289

BEAM	F(X)	F(Y)	F(Z)	M(X)	M(Y)	M(Z)
264	3.682E+00	-6.231E+02	1.174E+02	1.534E+03	1.824E+03	1.462E+03
364	-3.682E+00	6.231E+02	-1.174E+02	-1.534E+03	-1.824E+03	-1.462E+03
	7.629E-06	0.000E+00	0.000E+00	-2.441E-04	-1.221E-04	-1.221E-04

JOINT: 290

BEAM	F(X)	F(Y)	F(Z)	M(X)	M(Y)	M(Z)
263	-3.682E+00	-8.639E+02	-1.174E+02	-7.039E+03	2.543E+03	-5.780E+03
364	3.682E+00	8.639E+02	1.174E+02	7.039E+03	-2.543E+03	5.780E+03
	3.815E-06	0.000E+00	7.629E-06	0.000E+00	0.000E+00	0.000E+00

JOINT: 291

BEAM	F(X)	F(Y)	F(Z)	M(X)	M(Y)	M(Z)
271	-1.647E+02	-8.979E+02	2.375E+02	7.388E+03	6.142E+02	6.740E+03
365	1.647E+02	8.979E+02	-2.375E+02	-7.388E+03	-6.142E+02	-6.740E+03
	0.000E+00	0.000E+00	1.526E-05	0.000E+00	6.104E-05	0.000E+00

JOINT: 292

BEAM	F(X)	F(Y)	F(Z)	M(X)	M(Y)	M(Z)
270	1.647E+02	-5.891E+02	-2.375E+02	5.783E+01	1.162E+03	-4.242E+02
365	-1.647E+02	5.891E+02	2.375E+02	-5.783E+01	-1.162E+03	4.242E+02
	0.000E+00	6.104E-05	0.000E+00	1.297E-04	0.000E+00	1.221E-04

STATIC ANALYSIS
CDF CMEX UPGRADE: FRAME ANALYSIS
LOADING 1 - PRETENSION LOAD ON BLUE FRAME

JOINT: 293

BEAM	F(X)	F(Y)	F(Z)	M(X)	M(Y)	M(Z)
278	9.179E+02	-1.116E+03	-7.189E+02	3.014E+03	1.090E+04	-5.173E+02
366	-9.179E+02	1.116E+03	7.189E+02	-3.014E+03	-1.090E+04	5.173E+02
	0.000E+00	0.000E+00	-6.104E-05	0.000E+00	0.000E+00	6.104E-05

JOINT: 294

BEAM	F(X)	F(Y)	F(Z)	M(X)	M(Y)	M(Z)
277	-9.179E+02	-3.714E+02	7.189E+02	2.272E+03	2.694E+03	2.379E+02
366	9.179E+02	3.714E+02	-7.189E+02	-2.272E+03	-2.694E+03	-2.379E+02
	0.000E+00	0.000E+00	0.000E+00	2.441E-04	0.000E+00	-3.052E-05

JOINT: 295

BEAM	F(X)	F(Y)	F(Z)	M(X)	M(Y)	M(Z)
358	-7.083E+01	-6.568E+02	1.304E+02	3.735E+00	5.258E+02	3.967E+02
363	7.083E+01	6.568E+02	-1.304E+02	-3.735E+00	-5.258E+02	-3.967E+02
	-2.289E-05	6.104E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00

JOINT: 296

BEAM	F(X)	F(Y)	F(Z)	M(X)	M(Y)	M(Z)
357	7.083E+01	-8.303E+02	-1.304E+02	-5.381E+03	9.356E+02	-4.291E+03
363	-7.083E+01	8.303E+02	1.304E+02	5.381E+03	-9.356E+02	4.291E+03
	0.000E+00	0.000E+00	0.000E+00	-4.883E-04	6.104E-05	0.000E+00

STATIC ANALYSIS
CDF CMEX UPGRADE: FRAME ANALYSIS
LOADING 1 - PRETENSION LOAD ON BLUE FRAME

FORCES AND MOMENTS IN BEAMS

BEAM	JT.	FORCES X	FORCES Y	FORCES Z	MOMENTS X	MOMENTS Y	MOMENTS Z
237	248	-1.306E+04	-2.363E+03	-1.278E+03	-2.641E+04	1.684E+05	4.037E+
	236	-1.297E+04	-2.363E+03	-1.278E+03	-2.641E+04	1.392E+05	4.578E+
238	249	-1.114E+02	7.207E+02	-4.336E+02	-2.107E+04	1.341E+05	3.554E+
	237	4.294E+01	7.207E+02	-4.336E+02	-2.107E+04	1.177E+05	3.281E+
239	236	2.050E+03	5.193E+03	-1.389E+03	-1.277E+04	9.217E+04	2.824E+
	238	2.184E+03	5.193E+03	-1.389E+03	-1.277E+04	4.664E+04	1.122E+
240	237	6.330E+03	3.891E+03	-8.098E+02	-1.269E+04	7.861E+04	2.142E+
	239	6.403E+03	3.891E+03	-8.098E+02	-1.269E+04	6.422E+04	1.451E+
241	248	-1.784E+03	5.136E+01	1.772E+00	1.915E+01	-5.446E+01	3.205E+
	247	-1.770E+03	5.277E+01	1.549E+01	1.915E+01	2.820E+02	1.176E+
242	249	1.573E+03	5.601E+01	1.364E+01	8.368E+01	-6.536E+01	4.246E+
	247	1.587E+03	5.460E+01	-8.145E-02	8.368E+01	1.989E+02	2.090E+
243	238	1.646E+03	-1.823E+01	6.223E+01	1.478E+01	-4.227E+02	-3.433E+
	247	1.632E+03	-4.511E+00	6.364E+01	1.478E+01	2.030E+03	9.994E+
244	239	-1.761E+03	-1.470E+01	4.017E+01	-4.963E+01	-3.017E+02	-4.593E+
	247	-1.775E+03	-2.842E+01	3.876E+01	-4.963E+01	1.236E+03	3.809E+
245	238	6.216E+02	-7.091E+02	3.447E+02	6.744E+03	-9.249E+03	-1.971E+
	239	6.216E+02	-5.486E+02	3.447E+02	6.744E+03	9.561E+03	1.461E+
246	238	5.054E+03	6.224E+03	-8.449E+02	-3.197E+03	3.565E+04	1.304E+
	240	5.194E+03	6.224E+03	-8.449E+02	-3.197E+03	6.518E+03	-8.423E+
247	239	3.355E+03	3.455E+03	-7.959E+02	-2.385E+03	4.735E+04	1.487E+
	241	3.600E+03	3.455E+03	-7.959E+02	-2.385E+03	-4.479E+02	-5.881E+
248	240	-1.345E+03	-3.469E+02	-2.548E+02	-2.056E+03	8.022E+03	-1.016E+
	242	-1.172E+03	-3.469E+02	-2.548E+02	-2.056E+03	-2.812E+03	4.592E+
249	241	4.937E+02	-6.996E+02	-8.982E+02	-2.390E+03	9.024E+03	-7.916E+
	243	5.628E+02	-6.996E+02	-8.982E+02	-2.390E+03	-6.202E+03	3.944E+
250	238	-1.189E+03	-8.048E+00	-1.330E+01	-1.363E+01	2.441E+02	1.326E+
	246	-1.169E+03	-7.545E+00	4.810E-01	-1.363E+01	-5.846E+01	3.812E+

STATIC ANALYSIS
CDF CMEX UPGRADE: FRAME ANALYSIS
LOADING 1 - PRETENSION LOAD ON BLUE FRAME

BEAM	JT.	FORCES X	FORCES Y	FORCES Z	MOMENTS X	MOMENTS Y	MOMENTS Z
251	239	1.517E+03	3.371E+01	3.233E+00	3.561E+01	5.249E+01	1.822E+
	246	1.536E+03	3.321E+01	-1.055E+01	3.561E+01	-1.202E+02	2.431E+
252	242	1.542E+03	9.579E-01	1.181E+01	9.279E+00	-3.083E+02	2.584E+
	246	1.522E+03	1.474E+01	1.231E+01	9.279E+00	2.607E+02	-1.121E+
253	243	-1.122E+03	1.835E+01	1.493E+01	1.194E+01	-2.924E+02	4.756E+
	246	-1.141E+03	4.567E+00	1.443E+01	1.194E+01	4.004E+02	-6.521E+
254	242	-4.724E+02	1.332E+02	8.090E+01	-1.358E+03	-1.876E+03	4.873E+
	243	-4.724E+02	2.937E+02	8.090E+01	-1.358E+03	2.540E+03	-6.777E+
255	242	-4.789E+01	0.000E+00	2.910E-11	0.000E+00	-1.746E-10	1.572E-
	244	-1.323E-06	0.000E+00	2.910E-11	0.000E+00	2.328E-10	-3.027E-
256	243	-4.789E+01	-2.183E-10	4.729E-11	0.000E+00	-6.112E-10	-2.445E-
	245	-1.323E-06	-2.183E-10	4.729E-11	0.000E+00	1.164E-09	9.313E-
260	248	-1.107E+03	4.709E+02	1.864E+01	8.435E+03	-2.636E+03	1.162E+
	249	-1.107E+03	4.709E+02	1.614E+02	8.435E+03	1.738E+03	-1.125E+
261	250	-1.406E+04	-2.622E+02	3.718E+02	-1.075E+04	1.528E+05	3.959E+
	248	-1.397E+04	-2.622E+02	3.718E+02	-1.075E+04	1.608E+05	4.015E+
262	251	1.091E+03	1.827E+02	-3.351E+02	-1.122E+04	1.455E+05	3.687E+
	249	1.160E+03	1.827E+02	-3.351E+02	-1.122E+04	1.399E+05	3.656E+
263	250	3.682E+00	8.799E+02	-1.174E+02	7.039E+03	-1.610E+03	1.152E+
	290	3.682E+00	8.639E+02	-1.174E+02	7.039E+03	-2.543E+03	-5.780E+
264	251	-3.682E+00	6.393E+02	1.174E+02	-1.534E+03	-2.766E+03	6.531E+
	289	-3.682E+00	6.231E+02	1.174E+02	-1.534E+03	-1.824E+03	1.462E+
265	252	-1.508E+04	-2.586E+02	2.544E+02	-9.725E+03	1.510E+05	3.924E+
	250	-1.494E+04	-2.586E+02	2.544E+02	-9.725E+03	1.599E+05	4.014E+
266	253	2.901E+02	1.790E+02	-2.177E+02	-7.863E+03	1.526E+05	3.855E+
	251	4.519E+02	1.790E+02	-2.177E+02	-7.863E+03	1.440E+05	3.784E+
267	252	6.818E+02	2.088E+02	-1.551E+02	2.199E+03	2.366E+03	4.253E+
	253	6.818E+02	2.088E+02	-1.235E+01	2.199E+03	-1.702E+03	-5.890E+
268	254	-1.521E+04	-6.426E+01	1.668E+02	-2.291E+03	1.499E+05	3.903E+
	252	-1.516E+04	-6.426E+01	1.668E+02	-2.291E+03	1.521E+05	3.911E+

STATIC ANALYSIS
CDF CMEX UPGRADE: FRAME ANALYSIS
LOADING 1 - PRETENSION LOAD ON BLUE FRAME

BEAM	JT.	FORCES X	FORCES Y	FORCES Z	MOMENTS X	MOMENTS Y	MOMENTS Z
269	255	1.180E+02	1.170E+02	2.024E+01	-4.108E+03	1.568E+05	3.901E+
	253	1.911E+02	1.170E+02	2.024E+01	-4.108E+03	1.572E+05	3.880E+
270	254	-1.647E+02	6.051E+02	-2.375E+02	-5.783E+01	7.263E+02	4.323E+
	292	-1.647E+02	5.891E+02	-2.375E+02	-5.783E+01	-1.162E+03	-4.242E+
271	255	1.647E+02	9.141E+02	2.375E+02	-7.388E+03	-2.521E+03	1.402E+
	291	1.647E+02	8.979E+02	2.375E+02	-7.388E+03	-6.142E+02	6.740E+
272	256	-1.600E+04	-2.289E+02	-7.068E+01	-4.205E+03	1.529E+05	3.877E+
	254	-1.582E+04	-2.289E+02	-7.068E+01	-4.205E+03	1.499E+05	3.976E+
273	257	-9.531E+02	2.816E+02	2.577E+02	-4.000E+02	1.395E+05	4.196E+
	255	-7.961E+02	2.816E+02	2.577E+02	-4.000E+02	1.495E+05	4.087E+
274	256	-1.534E-03	7.965E+02	4.703E+02	3.580E+03	-8.289E+03	1.678E+
	257	-1.534E-03	7.965E+02	6.131E+02	3.580E+03	1.803E+04	-2.191E+
275	258	8.188E+03	-1.543E+04	1.383E+03	1.796E+04	1.394E+05	3.419E+
	256	8.201E+03	-1.543E+04	1.383E+03	1.796E+04	1.440E+05	3.929E+
276	259	1.364E+04	-1.906E+04	2.136E+03	2.086E+04	9.069E+04	1.106E+
	257	1.371E+04	-1.906E+04	2.136E+03	2.086E+04	1.274E+05	4.378E+
277	258	9.179E+02	4.125E+02	7.189E+02	-2.272E+03	-1.738E+04	8.246E+
	294	9.179E+02	3.714E+02	7.189E+02	-2.272E+03	-2.694E+03	2.379E+
278	259	-9.179E+02	1.162E+03	-7.189E+02	-3.014E+03	5.605E+03	2.562E+
	293	-9.179E+02	1.116E+03	-7.189E+02	-3.014E+03	-1.090E+04	-5.173E+
279	258	1.363E+04	-1.279E+03	-7.528E+02	-1.364E-12	4.925E+04	-8.841E+
	105	1.351E+04	-1.424E+03	-7.528E+02	-1.364E-12	-9.095E-13	-8.529E-
280	259	2.423E+04	-2.195E+02	-2.005E+02	0.000E+00	1.552E+04	-2.352E+
	106	2.408E+04	-3.882E+02	-2.005E+02	0.000E+00	4.547E-13	2.362E-
281	260	-5.093E+02	-3.380E+03	1.349E+03	-5.257E+02	-5.387E+02	-5.348E+
	258	-1.967E+02	-3.380E+03	1.349E+03	-5.257E+02	1.029E+05	2.587E+
282	261	-3.866E+03	-1.862E+03	1.217E+03	-4.430E+02	2.825E+02	6.588E+
	259	-3.610E+03	-1.862E+03	1.217E+03	-4.430E+02	7.673E+04	1.176E+
295	248	-4.239E+02	3.993E+01	3.532E+01	9.192E+01	5.312E+02	1.247E+
	265	-4.382E+02	5.366E+01	3.668E+01	9.192E+01	1.945E+03	-5.910E+

STATIC ANALYSIS
CDF CMEX UPGRADE: FRAME ANALYSIS
LOADING 1 - PRETENSION LOAD ON BLUE FRAME

BEAM	JT.	FORCES X	FORCES Y	FORCES Z	MOMENTS X	MOMENTS Y	MOMENTS Z
296	249	-4.327E+02	-2.231E+01	5.089E+01	-7.491E+01	-1.886E+01	-3.153E+
	265	-4.470E+02	-3.603E+01	4.953E+01	-7.491E+01	1.953E+03	8.301E+
297	252	-5.159E+02	3.220E+01	-7.202E+00	-1.230E+00	1.455E+02	3.321E+
	265	-5.017E+02	3.356E+01	6.526E+00	-1.230E+00	1.322E+02	2.030E+
298	253	-4.913E+02	5.251E+01	9.650E+00	8.152E+01	5.450E+00	3.984E+
	265	-4.770E+02	5.115E+01	-4.077E+00	8.152E+01	1.149E+02	1.949E+
299	252	-5.954E+02	3.140E+01	4.101E+01	8.398E+01	3.494E+02	9.784E+
	266	-6.097E+02	4.513E+01	4.238E+01	8.398E+01	1.987E+03	-5.242E+
300	253	-3.295E+02	-2.652E+01	4.365E+01	-8.063E+01	2.175E+02	-3.901E+
	266	-3.437E+02	-4.024E+01	4.229E+01	-8.063E+01	1.905E+03	9.206E+
301	256	-3.939E+02	3.737E+01	-6.523E+00	4.663E+00	1.316E+02	3.477E+
	266	-3.796E+02	3.873E+01	7.204E+00	4.663E+00	1.450E+02	1.983E+
302	257	-6.696E+02	4.822E+01	2.078E+01	7.996E+01	-2.863E+02	3.861E+
	266	-6.553E+02	4.686E+01	7.048E+00	7.996E+01	2.600E+02	1.994E+
303	256	1.389E+01	1.194E+00	-1.139E+01	2.708E+01	1.065E+03	2.451E+
	267	-6.327E+00	1.498E+01	-1.097E+01	2.708E+01	5.239E+02	-1.466E+
304	257	3.664E+01	2.113E+01	-6.682E+00	-1.158E+01	7.874E+02	6.904E+
	267	1.642E+01	7.337E+00	-7.099E+00	-1.158E+01	4.537E+02	1.298E+
305	260	-3.665E+01	8.596E+00	-7.653E+00	7.485E+00	7.999E+01	9.199E+
	267	-1.643E+01	9.013E+00	6.135E+00	7.485E+00	4.325E+01	4.936E+
306	261	-1.390E+01	-2.761E+01	-1.052E+00	-1.813E+01	1.976E+02	-8.189E+
	267	6.322E+00	-2.802E+01	-1.484E+01	-1.813E+01	-1.872E+02	5.278E+
308	236	-1.667E+04	2.144E+03	1.117E+02	1.502E+04	4.661E+04	1.754E+
	269	-1.654E+04	2.053E+03	1.117E+02	1.502E+04	5.102E+04	9.244E+
309	237	-7.001E+03	7.558E+02	3.761E+02	1.422E+04	3.738E+04	1.138E+
	270	-6.928E+03	7.089E+02	3.761E+02	1.422E+04	4.534E+04	9.835E+
310	269	-1.364E+04	1.516E+03	-6.735E+02	7.192E+03	4.758E+04	1.069E+
	272	-1.354E+04	1.440E+03	-6.735E+02	7.192E+03	2.746E+04	6.275E+
311	270	-6.828E+03	8.423E+02	-2.977E+02	5.533E+03	3.692E+04	9.159E+
	273	-6.618E+03	6.731E+02	-2.977E+02	5.533E+03	1.720E+04	4.139E+

STATIC ANALYSIS
CDF CMEX UPGRADE: FRAME ANALYSIS
LOADING 1 - PRETENSION LOAD ON BLUE FRAME

BEAM	JT.	FORCES X	FORCES Y	FORCES Z	MOMENTS X	MOMENTS Y	MOMENTS Z
312	272	-1.287E+04	9.992E+02	-4.968E+02	3.976E+03	2.460E+04	5.833E+
	274	-1.276E+04	9.063E+02	-4.968E+02	3.976E+03	6.531E+03	2.368E+
313	273	-8.160E+03	5.941E+02	-2.089E+02	-1.617E+03	1.342E+04	3.847E+
	276	-7.982E+03	4.504E+02	-2.089E+02	-1.617E+03	1.682E+03	9.125E+
314	274	-1.175E+04	1.545E+03	6.967E+02	-7.792E+02	8.049E+03	3.292E+
	275	-1.170E+04	1.502E+03	6.967E+02	-7.792E+02	1.992E+04	6.958E+
315	269	5.831E+02	-5.296E+02	-1.782E+02	5.510E+03	6.948E+03	-1.619E+
	270	5.831E+02	-3.470E+02	-1.782E+02	5.510E+03	-4.116E+03	1.103E+
316	274	1.643E+03	-2.659E+02	-1.112E+02	4.408E+03	4.264E+03	-7.456E+
	273	1.643E+03	-8.333E+01	-1.112E+02	4.408E+03	-2.641E+03	3.389E+
317	241	5.090E+03	-9.974E+02	1.023E+02	-8.533E+03	-4.112E+03	-5.089E+
	271	5.113E+03	-1.045E+03	1.023E+02	-8.533E+03	-2.800E+03	-3.779E+
318	240	6.997E+03	-2.390E+03	4.286E+02	3.681E+03	-3.923E+03	-7.035E+
	275	7.122E+03	-2.692E+03	4.286E+02	3.681E+03	3.046E+04	1.335E+
319	271	5.567E+03	-1.592E+03	3.936E+02	-7.853E+02	-4.408E+03	-3.859E+
	276	5.689E+03	-1.904E+03	3.936E+02	-7.853E+02	2.798E+04	1.052E+
320	240	2.152E+02	-1.254E+02	2.091E+02	4.808E+02	-6.317E+03	-4.558E+
	271	3.067E+02	-2.195E+01	3.039E+02	4.808E+02	8.302E+03	-3.586E+
321	275	-2.488E+03	-1.889E+02	-2.528E+02	1.028E+03	2.402E+03	-4.096E+
	276	-2.399E+03	-9.328E+01	-1.550E+02	1.028E+03	-8.923E+03	3.740E+
322	275	-2.810E+03	1.867E+03	-3.725E+02	1.445E+04	4.594E+04	1.375E+
	278	-2.732E+03	1.665E+03	-3.725E+02	1.445E+04	2.609E+04	4.341E+
323	276	1.279E+03	2.095E+03	3.725E+02	-1.665E+04	3.018E+04	1.114E+
	277	1.298E+03	2.047E+03	3.725E+02	-1.665E+04	3.490E+04	8.515E+
324	278	-2.395E+03	1.053E+03	-2.771E+02	1.131E+04	2.338E+04	4.395E+
	280	-2.305E+03	8.130E+02	-2.771E+02	1.131E+04	5.966E+03	-1.466E+
325	277	1.832E+03	1.551E+03	-4.989E+02	3.343E+04	3.832E+04	7.849E+
	279	1.844E+03	1.312E+03	-5.052E+02	3.343E+04	8.824E+03	-5.655E+
326	279	1.865E+03	4.266E+02	-1.318E+02	1.799E+04	8.463E+03	9.542E+
	280	1.878E+03	1.507E+02	-1.349E+02	1.799E+04	-5.782E+02	-1.003E+

STATIC ANALYSIS
CDF CMEX UPGRADE: FRAME ANALYSIS
LOADING 1 - PRETENSION LOAD ON BLUE FRAME

BEAM	JT.	FORCES X	FORCES Y	FORCES Z	MOMENTS X	MOMENTS Y	MOMENTS Z
327	280	7.455E+02	-4.471E+02	2.450E+02	-1.349E+03	-9.127E+03	-1.206E+
	281	6.960E+02	-4.254E+02	2.450E+02	-1.349E+03	-2.543E+03	-3.386E+
328	280	6.760E+01	-6.873E+02	-4.337E+02	2.474E+02	1.579E+04	-1.948E+
	282	9.033E+01	-6.137E+02	-3.852E+02	2.474E+02	-2.753E+03	9.978E+
329	278	6.927E+02	1.500E+02	-9.547E+01	1.672E+03	-3.870E+03	-5.379E+
	283	6.628E+02	1.471E+02	-9.547E+01	1.672E+03	-5.295E+03	-2.754E+
330	279	-1.008E+02	-8.700E+02	-1.842E+01	3.310E+01	-1.055E+02	-1.735E+
	284	-1.014E+02	-8.163E+02	-2.115E+01	3.310E+01	-6.349E+02	5.209E+
331	275	3.497E+02	4.293E+02	-4.702E+02	4.439E+02	4.248E+03	7.628E+
	285	3.099E+02	4.104E+02	-4.702E+02	4.439E+02	-6.052E+03	-1.569E+
332	276	1.083E+03	2.107E+02	4.702E+02	-1.172E+02	-6.743E+03	5.771E+
	286	1.040E+03	1.921E+02	4.702E+02	-1.172E+02	4.222E+03	1.074E+
333	272	6.042E+02	5.233E+02	-1.767E+02	1.883E+03	-3.867E+03	4.413E+
	287	5.798E+02	5.059E+02	-1.767E+02	1.883E+03	-6.503E+03	-3.263E+
334	273	7.585E+02	7.906E+01	1.767E+02	-9.277E+01	-1.748E+03	2.388E+
	288	7.215E+02	7.148E+01	1.767E+02	-9.277E+01	1.575E+03	9.722E+
345	271	-8.027E+02	6.959E+00	1.800E+01	-8.227E+00	-2.870E+02	2.903E+
	275	-8.030E+02	-3.132E+01	-2.010E+01	-8.227E+00	-3.993E+02	1.330E+
346	240	2.228E+03	-4.983E+00	3.345E+00	-2.332E+01	1.365E+01	-3.431E+
	276	2.259E+03	-3.709E+01	-6.515E+00	-2.332E+01	-1.292E+02	1.553E+
347	269	-2.353E+03	3.238E+01	-1.271E+01	1.767E+01	2.795E+02	1.442E+
	273	-2.327E+03	2.012E+01	4.215E+00	1.767E+01	-1.385E+00	-2.944E+
348	270	6.021E+01	1.716E+01	2.037E+01	1.038E+01	-3.607E+02	1.144E+
	274	8.631E+01	-9.381E+00	-2.099E+01	1.038E+01	-3.948E+02	7.161E+
357	269	8.794E+02	1.660E+02	-1.304E+02	-3.539E+02	-1.436E+03	7.148E+
	296	8.179E+02	1.593E+02	-1.304E+02	-3.539E+02	-5.450E+03	-4.291E+
358	270	5.516E+02	4.431E+02	1.304E+02	-3.775E+02	-3.427E+03	1.041E+
	295	5.180E+02	4.100E+02	1.304E+02	-3.775E+02	-3.660E+02	3.967E+
359	281	-7.236E+02	4.128E+00	-4.492E+02	1.474E+02	2.874E+03	-3.446E+
	282	2.524E+02	1.983E+02	6.559E+02	1.474E+02	8.520E+03	-5.881E+

STATIC ANALYSIS
CDF CMEX UPGRADE: FRAME ANALYSIS
LOADING 1 - PRETENSION LOAD ON BLUE FRAME

BEAM	JT.	FORCES X	FORCES Y	FORCES Z	MOMENTS X	MOMENTS Y	MOMENTS Z
360	283	-3.198E+02	-3.339E+02	-5.063E+02	-1.662E+01	4.577E+03	-4.178E+
	284	5.897E+02	2.351E+02	5.234E+02	-1.662E+01	5.037E+03	-1.471E+
361	285	2.085E+02	-4.661E+02	-4.741E+02	5.073E+01	5.825E+03	-2.312E+
	286	9.896E+02	4.391E+02	4.102E+02	5.073E+01	4.067E+03	-1.565E+
362	287	-1.371E+02	-6.529E+02	-4.221E+02	-1.208E+00	5.672E+03	-4.931E+
	288	4.622E+02	5.268E+02	2.564E+02	-1.208E+00	1.129E+03	-1.470E+
363	296	-6.925E+01	-7.942E+02	-2.754E+02	1.619E+02	2.923E+03	-6.298E+
	295	3.075E+02	5.797E+02	1.511E+02	1.619E+02	-4.843E+02	-4.160E+
364	290	1.090E+01	-8.561E+02	-1.649E+02	-6.815E+01	3.440E+03	-8.808E+
	289	1.394E+02	6.183E+02	-1.947E+01	-6.815E+01	-1.608E+03	-2.286E+
365	292	3.369E+02	-5.626E+02	2.279E+01	2.555E+02	1.159E+03	-3.515E+
	291	2.085E+02	9.117E+02	-1.227E+02	2.555E+02	-1.573E+03	-9.892E+
366	294	-1.006E+03	-6.944E+02	-5.320E+01	5.292E+02	3.358E+03	9.584E+
	293	-1.383E+03	6.794E+02	-4.797E+02	5.292E+02	-1.122E+04	1.381E+

STRESS CALCULATIONS

BEAM	END	PT.	T SHEAR P/A	Y SHEAR Y BENDING	Z SHEAR Z BENDING	COMBINED	STRESS RATIO
237	AFT	1	5.104E+02	-2.634E+02	-2.929E+02		
			-9.035E+02	4.255E+03	-1.236E+04	1.752E+04	0.42
238	FORE	1	4.072E+02	8.035E+01	-9.942E+01		
			-7.766E+00	4.101E+03	-9.598E+03	1.371E+04	0.33
239	FORE	1	2.468E+02	5.790E+02	-3.185E+02		
			1.429E+02	2.818E+03	-7.626E+03	1.059E+04	0.25
240	FORE	1	2.452E+02	4.338E+02	-1.857E+02		
			4.411E+02	2.403E+03	-5.786E+03	8.630E+03	0.21
241	FORE	1	0.000E+00	6.145E+01	2.389E+00		
			-1.002E+03	-7.874E+01	-2.828E+03	3.909E+03	0.11
	FORE	2	-4.794E+02	6.145E+01	2.389E+00		
			-1.002E+03	1.047E+02	0.000E+00	1.223E+03	0.03
	FORE	3	0.000E+00	6.145E+01	2.389E+00		
			-1.002E+03	-7.874E+01	2.828E+03	1.746E+03	0.05

STATIC ANALYSIS
CDF CMEX UPGRADE: FRAME ANALYSIS
LOADING 1 - PRETENSION LOAD ON BLUE FRAME

BEAM	END	PT.	T SHEAR P/A	Y SHEAR Y BENDING	Z SHEAR Z BENDING	COMBINED	STRESS RATIO
242	FORE	1	0.000E+00	6.703E+01	1.839E+01		
			8.835E+02	-9.449E+01	-3.746E+03	2.957E+03	0.08
	FORE	2	-9.659E+02	6.703E+01	1.839E+01		
			8.835E+02	1.256E+02	0.000E+00	1.954E+03	0.05
	FORE	3	0.000E+00	6.703E+01	1.839E+01		
			8.835E+02	-9.449E+01	3.746E+03	4.535E+03	0.13
243	AFT	1	0.000E+00	-5.398E+00	8.580E+01		
			9.168E+02	2.935E+03	-8.817E+01	3.764E+03	0.10
	AFT	2	-7.405E+01	-5.398E+00	8.580E+01		
			9.168E+02	-3.903E+03	0.000E+00	2.988E+03	0.08
	AFT	3	0.000E+00	-5.398E+00	8.580E+01		
			9.168E+02	2.935E+03	8.817E+01	3.940E+03	0.11
244	AFT	1	0.000E+00	-3.401E+01	5.226E+01		
			-9.970E+02	1.788E+03	-3.361E+02	4.546E+02	0.01
	AFT	2	5.407E+02	-3.401E+01	5.226E+01		
			-9.970E+02	-2.377E+03	0.000E+00	3.502E+03	0.10
	AFT	3	0.000E+00	-3.401E+01	5.226E+01		
			-9.970E+02	1.788E+03	3.361E+02	1.127E+03	0.03
245	FORE	1	-2.256E+02	-1.425E+02	6.926E+01		
			6.006E+01	-4.966E+02	1.058E+03	1.615E+03	0.04
246	FORE	1	6.177E+01	6.940E+02	-1.937E+02		
			3.522E+02	1.090E+03	-3.521E+03	4.963E+03	0.12
247	FORE	1	4.608E+01	3.852E+02	-1.825E+02		
			2.338E+02	1.447E+03	-4.015E+03	5.696E+03	0.14
248	FORE	1	3.973E+01	-3.868E+01	-5.842E+01		
			-9.373E+01	2.452E+02	2.744E+02	6.133E+02	0.01
249	FORE	1	4.619E+01	-7.801E+01	-2.059E+02		
			3.441E+01	2.759E+02	2.138E+02	5.240E+02	0.01
250	FORE	1	0.000E+00	-9.630E+00	-1.794E+01		
			-6.677E+02	3.530E+02	-1.170E+01	3.264E+02	0.01
	FORE	2	1.501E+02	-9.630E+00	-1.794E+01		
			-6.677E+02	-4.693E+02	0.000E+00	1.166E+03	0.03
	FORE	3	0.000E+00	-9.630E+00	-1.794E+01		
			-6.677E+02	3.530E+02	1.170E+01	3.031E+02	0.01
251	FORE	1	0.000E+00	4.034E+01	4.359E+00		
			8.521E+02	7.589E+01	-1.608E+03	6.797E+02	0.02
	FORE	2	-4.773E+02	4.034E+01	4.359E+00		
			8.521E+02	-1.009E+02	0.000E+00	1.117E+03	0.03
	FORE	3	0.000E+00	4.034E+01	4.359E+00		
			8.521E+02	7.589E+01	1.608E+03	2.536E+03	0.07

STATIC ANALYSIS
CDF CMEX UPGRADE: FRAME ANALYSIS
LOADING 1 - PRETENSION LOAD ON BLUE FRAME

BEAM	END	PT.	T SHEAR P/A	Y SHEAR Y BENDING	Z SHEAR Z BENDING	COMBINED	STRESS RATIO
252	FORE	1	0.000E+00	1.146E+00	1.592E+01		
			8.662E+02	-4.458E+02	-2.279E+02	1.925E+02	0.01
	FORE	2	-7.190E+01	1.146E+00	1.592E+01		
			8.662E+02	5.928E+02	0.000E+00	1.464E+03	0.04
	FORE	3	0.000E+00	1.146E+00	1.592E+01		
			8.662E+02	-4.458E+02	2.279E+02	6.484E+02	0.02
253	FORE	1	0.000E+00	2.196E+01	2.013E+01		
			-6.303E+02	-4.227E+02	-4.196E+02	1.473E+03	0.04
	FORE	2	-2.073E+02	2.196E+01	2.013E+01		
			-6.303E+02	5.621E+02	0.000E+00	3.654E+02	0.01
	FORE	3	0.000E+00	2.196E+01	2.013E+01		
			-6.303E+02	-4.227E+02	4.196E+02	6.334E+02	0.02
254	AFT	1	4.543E+01	5.902E+01	1.626E+01		
			-4.565E+01	1.364E+02	3.639E+02	5.459E+02	0.01
255	FORE	1	0.000E+00	0.000E+00	6.673E-12		
			-3.337E+00	-5.338E-12	-4.244E-11	3.337E+00	0.00
256	FORE	1	0.000E+00	-2.434E-11	1.084E-11		
			-3.337E+00	-1.868E-11	6.602E-11	3.337E+00	0.00
260	FORE	1	-2.822E+02	9.463E+01	3.746E+00		
			-1.070E+02	-1.415E+02	-6.241E+02	8.727E+02	0.02
261	AFT	1	2.077E+02	-2.924E+01	8.524E+01		
			-9.738E+02	4.916E+03	-1.084E+04	1.673E+04	0.40
262	FORE	1	2.167E+02	2.037E+01	-7.682E+01		
			7.604E+01	4.449E+03	-9.956E+03	1.448E+04	0.34
263	AFT	1	0.000E+00	4.564E+02	-2.486E+01		
			5.201E-01	-4.516E+02	2.771E+02	7.292E+02	0.02
	AFT	2	-1.339E+04	4.564E+02	-2.486E+01		
			5.201E-01	0.000E+00	2.771E+02	2.320E+04	0.64
	AFT	3	-1.339E+04	4.564E+02	-2.486E+01		
			5.201E-01	0.000E+00	-2.771E+02	2.320E+04	0.64
264	FORE	1	0.000E+00	3.377E+02	2.486E+01		
			-5.201E-01	-4.913E+02	-3.131E+02	8.049E+02	0.02
	FORE	2	2.918E+03	3.377E+02	2.486E+01		
			-5.201E-01	0.000E+00	-3.131E+02	5.064E+03	0.14
	FORE	3	2.918E+03	3.377E+02	2.486E+01		
			-5.201E-01	0.000E+00	3.131E+02	5.064E+03	0.14
265	AFT	1	1.879E+02	-2.883E+01	5.833E+01		
			-1.041E+03	4.887E+03	-1.084E+04	1.677E+04	0.40

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LOADING 1 - PRETENSION LOAD ON BLUE FRAME

BEAM	END	PT.	T SHEAR P/A	Y SHEAR Y BENDING	Z SHEAR Z BENDING	COMBINED	STRESS RATIO
266	FORE	1	1.519E+02	1.995E+01	-4.991E+01		
			2.022E+01	4.666E+03	-1.041E+04	1.510E+04	0.36
267	AFT	1	-7.358E+01	4.196E+01	-2.482E+00		
			6.587E+01	-9.138E+01	3.163E+02	4.735E+02	0.01
268	AFT	1	4.428E+01	-7.165E+00	3.824E+01		
			-1.056E+03	4.650E+03	-1.056E+04	1.627E+04	0.39
269	FORE	1	7.938E+01	1.304E+01	4.641E+00		
			8.222E+00	4.795E+03	-1.054E+04	1.534E+04	0.37
270	FORE	1	0.000E+00	3.196E+02	-5.031E+01		
			-2.326E+01	1.290E+02	-2.073E+02	3.595E+02	0.01
	FORE	2	1.101E+02	3.196E+02	-5.031E+01		
			-2.326E+01	0.000E+00	-2.073E+02	2.991E+02	0.01
	FORE	3	1.101E+02	3.196E+02	-5.031E+01		
			-2.326E+01	0.000E+00	2.073E+02	2.649E+02	0.01
271	FORE	1	0.000E+00	4.829E+02	5.031E+01		
			2.326E+01	-4.477E+02	-6.720E+02	1.143E+03	0.03
	FORE	2	1.406E+04	4.829E+02	5.031E+01		
			2.326E+01	0.000E+00	-6.720E+02	2.436E+04	0.68
	FORE	3	1.406E+04	4.829E+02	5.031E+01		
			2.326E+01	0.000E+00	6.720E+02	2.436E+04	0.68
272	AFT	1	8.125E+01	-2.552E+01	-1.620E+01		
			-1.102E+03	4.581E+03	-1.074E+04	1.642E+04	0.39
273	FORE	1	7.729E+00	3.140E+01	5.908E+01		
			-6.642E+01	4.265E+03	-1.133E+04	1.566E+04	0.37
274	AFT	1	-1.198E+02	1.601E+02	1.232E+02		
			-1.482E-04	9.679E+02	1.176E+03	2.144E+03	0.05
275	AFT	1	-3.471E+02	-1.720E+03	3.170E+02		
			5.715E+02	4.402E+03	-1.061E+04	1.558E+04	0.37
276	AFT	1	-4.031E+02	-2.125E+03	4.897E+02		
			9.556E+02	3.893E+03	-1.182E+04	1.667E+04	0.40
277	FORE	1	0.000E+00	2.179E+02	1.523E+02		
			1.297E+02	-3.087E+03	-3.954E+02	3.612E+03	0.10
	FORE	2	4.324E+03	2.179E+02	1.523E+02		
			1.297E+02	0.000E+00	-3.954E+02	7.494E+03	0.21
	FORE	3	4.324E+03	2.179E+02	1.523E+02		
			1.297E+02	0.000E+00	3.954E+02	7.508E+03	0.21
278	FORE	1	0.000E+00	6.137E+02	-1.523E+02		
			-1.297E+02	9.953E+02	-1.228E+03	2.353E+03	0.07
	FORE	2	5.736E+03	6.137E+02	-1.523E+02		
			-1.297E+02	0.000E+00	-1.228E+03	1.003E+04	0.28
	FORE	3	5.736E+03	6.137E+02	-1.523E+02		
			-1.297E+02	0.000E+00	1.228E+03	9.995E+03	0.28

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LOADING 1 - PRETENSION LOAD ON BLUE FRAME

BEAM	END	PT.	T SHEAR P/A	Y SHEAR Y BENDING	Z SHEAR Z BENDING	COMBINED	STRESS RATIO
279	FORE	1	4.564E-14	-2.570E+02	-1.513E+02		
			1.317E+03	2.645E+03	4.747E+03	8.709E+03	0.21
280	FORE	1	0.000E+00	-4.411E+01	-4.030E+01		
			2.341E+03	8.333E+02	1.263E+03	4.437E+03	0.11
281	AFT	1	1.016E+01	-3.769E+02	3.092E+02		
			-1.371E+01	3.145E+03	-6.986E+03	1.015E+04	0.24
282	AFT	1	8.559E+00	-2.076E+02	2.789E+02		
			-2.515E+02	2.345E+03	-3.176E+03	5.773E+03	0.14
295	AFT	1	0.000E+00	6.421E+01	4.946E+01		
			-2.462E+02	2.812E+03	5.214E+02	3.087E+03	0.09
	AFT	2	-1.008E+03	6.421E+01	4.946E+01		
			-2.462E+02	-3.739E+03	0.000E+00	4.351E+03	0.12
	AFT	3	0.000E+00	6.421E+01	4.946E+01		
			-2.462E+02	2.812E+03	-5.214E+02	2.045E+03	0.06
296	AFT	1	0.000E+00	-4.312E+01	6.678E+01		
			-2.511E+02	2.824E+03	-7.324E+02	1.840E+03	0.05
	AFT	2	7.701E+02	-4.312E+01	6.678E+01		
			-2.511E+02	-3.754E+03	0.000E+00	4.222E+03	0.12
	AFT	3	0.000E+00	-4.312E+01	6.678E+01		
			-2.511E+02	2.824E+03	7.324E+02	3.305E+03	0.09
297	FORE	1	0.000E+00	3.853E+01	-9.710E+00		
			-2.899E+02	2.104E+02	-2.930E+03	3.010E+03	0.08
	FORE	2	-2.071E+02	3.853E+01	-9.710E+00		
			-2.899E+02	-2.797E+02	0.000E+00	6.732E+02	0.02
	FORE	3	0.000E+00	3.853E+01	-9.710E+00		
			-2.899E+02	2.104E+02	2.930E+03	2.851E+03	0.08
298	FORE	1	0.000E+00	6.284E+01	1.301E+01		
			-2.760E+02	7.879E+00	-3.515E+03	3.783E+03	0.11
	FORE	2	-9.272E+02	6.284E+01	1.301E+01		
			-2.760E+02	-1.048E+01	0.000E+00	1.631E+03	0.05
	FORE	3	0.000E+00	6.284E+01	1.301E+01		
			-2.760E+02	7.879E+00	3.515E+03	3.247E+03	0.09
299	AFT	1	0.000E+00	5.400E+01	5.714E+01		
			-3.425E+02	2.872E+03	4.625E+02	2.992E+03	0.08
	AFT	2	-8.951E+02	5.400E+01	5.714E+01		
			-3.425E+02	-3.819E+03	0.000E+00	4.441E+03	0.12
	AFT	3	0.000E+00	5.400E+01	5.714E+01		
			-3.425E+02	2.872E+03	-4.625E+02	2.067E+03	0.06

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BEAM	END	PT.	T SHEAR P/A	Y SHEAR Y BENDING	Z SHEAR Z BENDING	COMBINED	STRESS RATIO
300	AFT	1	0.000E+00	-4.816E+01	5.702E+01		
			-1.931E+02	2.754E+03	-8.122E+02	1.749E+03	0.05
	AFT	2	8.387E+02	-4.816E+01	5.702E+01		
			-1.931E+02	-3.662E+03	0.000E+00	4.120E+03	0.11
	AFT	3	0.000E+00	-4.816E+01	5.702E+01		
			-1.931E+02	2.754E+03	8.122E+02	3.373E+03	0.09
301	FORE	1	0.000E+00	4.472E+01	-8.795E+00		
			-2.213E+02	1.902E+02	-3.068E+03	3.099E+03	0.09
	FORE	2	-2.834E+02	4.472E+01	-8.795E+00		
			-2.213E+02	-2.530E+02	0.000E+00	6.826E+02	0.02
	FORE	3	0.000E+00	4.472E+01	-8.795E+00		
			-2.213E+02	1.902E+02	3.068E+03	3.037E+03	0.08
302	FORE	1	0.000E+00	5.771E+01	2.801E+01		
			-3.762E+02	-4.140E+02	-3.407E+03	4.197E+03	0.12
	FORE	2	-8.874E+02	5.771E+01	2.801E+01		
			-3.762E+02	5.505E+02	0.000E+00	1.547E+03	0.04
	FORE	3	0.000E+00	5.771E+01	2.801E+01		
			-3.762E+02	-4.140E+02	3.407E+03	2.616E+03	0.07
303	FORE	1	0.000E+00	1.428E+00	-1.536E+01		
			7.806E+00	1.540E+03	-2.162E+02	1.332E+03	0.04
	FORE	2	-1.991E+02	1.428E+00	-1.536E+01		
			7.806E+00	-2.048E+03	0.000E+00	2.069E+03	0.06
	FORE	3	0.000E+00	1.428E+00	-1.536E+01		
			7.806E+00	1.540E+03	2.162E+02	1.764E+03	0.05
304	FORE	1	0.000E+00	2.528E+01	-9.009E+00		
			2.059E+01	1.138E+03	-6.091E+02	5.499E+02	0.02
	FORE	2	-5.993E+01	2.528E+01	-9.009E+00		
			2.059E+01	-1.514E+03	0.000E+00	1.497E+03	0.04
	FORE	3	0.000E+00	2.528E+01	-9.009E+00		
			2.059E+01	1.138E+03	6.091E+02	1.768E+03	0.05
305	FORE	1	0.000E+00	1.029E+01	-1.032E+01		
			-2.059E+01	1.157E+02	-8.116E+02	7.165E+02	0.02
	FORE	2	-1.104E+02	1.029E+01	-1.032E+01		
			-2.059E+01	-1.538E+02	0.000E+00	2.588E+02	0.01
	FORE	3	0.000E+00	1.029E+01	-1.032E+01		
			-2.059E+01	1.157E+02	8.116E+02	9.066E+02	0.03

STATIC ANALYSIS
CDF CMEX UPGRADE: FRAME ANALYSIS
LOADING 1 - PRETENSION LOAD ON BLUE FRAME

BEAM	END	PT.	T SHEAR P/A	Y SHEAR Y BENDING	Z SHEAR Z BENDING	COMBINED	STRESS RATIO
306	FORE	1	0.000E+00	-3.303E+01	-1.419E+00		
			-7.809E+00	2.857E+02	7.225E+02	1.000E+03	0.03
	FORE	2	3.130E+02	-3.303E+01	-1.419E+00		
			-7.809E+00	-3.799E+02	0.000E+00	6.665E+02	0.02
	FORE	3	0.000E+00	-3.303E+01	-1.419E+00		
			-7.809E+00	2.857E+02	-7.225E+02	4.446E+02	0.01
308	FORE	1	-2.903E+02	2.390E+02	2.561E+01		
			-1.162E+03	1.425E+03	-4.737E+03	7.324E+03	0.17
309	FORE	1	-2.747E+02	8.427E+01	8.623E+01		
			-4.879E+02	1.143E+03	-3.075E+03	4.705E+03	0.11
310	FORE	1	-1.390E+02	1.690E+02	-1.544E+02		
			-9.502E+02	1.454E+03	-2.887E+03	5.291E+03	0.13
311	FORE	1	-1.069E+02	9.392E+01	-6.826E+01		
			-4.758E+02	1.129E+03	-2.474E+03	4.078E+03	0.10
312	FORE	1	-7.682E+01	1.114E+02	-1.139E+02		
			-8.972E+02	7.521E+02	-1.575E+03	3.225E+03	0.08
313	FORE	1	3.124E+01	6.624E+01	-4.788E+01		
			-5.686E+02	4.101E+02	-1.039E+03	2.018E+03	0.05
314	FORE	1	1.506E+01	1.723E+02	1.597E+02		
			-8.191E+02	2.460E+02	-8.890E+02	1.954E+03	0.05
315	FORE	1	-1.843E+02	-1.064E+02	-3.580E+01		
			5.634E+01	3.731E+02	8.694E+02	1.299E+03	0.03
316	FORE	1	-1.475E+02	-5.343E+01	-2.234E+01		
			1.588E+02	2.290E+02	4.003E+02	7.881E+02	0.02
317	FORE	1	1.649E+02	-1.112E+02	2.345E+01		
			3.547E+02	-1.257E+02	1.374E+03	1.855E+03	0.04
318	AFT	1	-7.112E+01	-3.002E+02	9.826E+01		
			4.963E+02	9.312E+02	-3.606E+03	5.033E+03	0.12
319	AFT	1	1.517E+01	-2.123E+02	9.024E+01		
			3.964E+02	8.553E+02	-2.842E+03	4.094E+03	0.10
320	FORE	1	-1.609E+01	-2.520E+01	4.201E+01		
			2.079E+01	-3.392E+02	2.448E+02	6.047E+02	0.01
321	AFT	1	-3.438E+01	-1.875E+01	-3.115E+01		
			-2.318E+02	-4.791E+02	-2.008E+02	9.117E+02	0.02
322	FORE	1	-2.791E+02	2.082E+02	-8.541E+01		
			-1.958E+02	1.404E+03	-3.713E+03	5.313E+03	0.13
323	FORE	1	3.217E+02	2.336E+02	8.541E+01		
			8.913E+01	9.225E+02	-3.009E+03	4.021E+03	0.10
324	FORE	1	-2.186E+02	1.174E+02	-6.352E+01		
			-1.669E+02	7.146E+02	-1.187E+03	2.068E+03	0.05
325	FORE	1	-6.460E+02	1.730E+02	-1.144E+02		
			1.277E+02	1.172E+03	-2.120E+03	3.419E+03	0.08

STATIC ANALYSIS
CDF CMEX UPGRADE: FRAME ANALYSIS
LOADING 1 - PRETENSION LOAD ON BLUE FRAME

BEAM	END	PT.	T SHEAR P/A	Y SHEAR Y BENDING	Z SHEAR Z BENDING	COMBINED	STRESS RATIO
326	FORE	1	-3.476E+02	4.757E+01	-3.022E+01		
			1.299E+02	2.587E+02	-2.577E+02	6.464E+02	0.02
327	FORE	1	0.000E+00	-2.362E+02	5.191E+01		
			1.053E+02	-1.621E+03	5.783E+02	2.304E+03	0.06
	FORE	2	2.567E+03	-2.362E+02	5.191E+01		
			1.053E+02	0.000E+00	5.783E+02	4.498E+03	0.12
	FORE	3	2.567E+03	-2.362E+02	5.191E+01		
			1.053E+02	0.000E+00	-5.783E+02	4.471E+03	0.12
328	FORE	1	0.000E+00	-3.631E+02	-9.189E+01		
			9.549E+00	2.804E+03	9.341E+02	3.748E+03	0.10
	FORE	2	-4.707E+02	-3.631E+02	-9.189E+01		
			9.549E+00	0.000E+00	9.341E+02	1.247E+03	0.03
	FORE	3	-4.707E+02	-3.631E+02	-9.189E+01		
			9.549E+00	0.000E+00	-9.341E+02	1.233E+03	0.03
329	AFT	1	0.000E+00	7.768E+01	-2.023E+01		
			9.362E+01	-9.403E+02	1.320E+02	1.166E+03	0.03
	AFT	2	-3.181E+03	7.768E+01	-2.023E+01		
			9.362E+01	0.000E+00	1.320E+02	5.515E+03	0.15
	AFT	3	-3.181E+03	7.768E+01	-2.023E+01		
			9.362E+01	0.000E+00	-1.320E+02	5.510E+03	0.15
330	FORE	1	0.000E+00	-4.596E+02	-3.903E+00		
			-1.424E+01	-1.873E+01	8.319E+02	8.649E+02	0.02
	FORE	2	-6.299E+01	-4.596E+02	-3.903E+00		
			-1.424E+01	0.000E+00	8.319E+02	8.249E+02	0.02
	FORE	3	-6.299E+01	-4.596E+02	-3.903E+00		
			-1.424E+01	0.000E+00	-8.319E+02	8.532E+02	0.02
331	FORE	1	0.000E+00	2.268E+02	-9.961E+01		
			4.939E+01	7.545E+02	-3.658E+02	1.170E+03	0.03
	FORE	2	-8.448E+02	2.268E+02	-9.961E+01		
			4.939E+01	0.000E+00	-3.658E+02	1.497E+03	0.04
	FORE	3	-8.448E+02	2.268E+02	-9.961E+01		
			4.939E+01	0.000E+00	3.658E+02	1.521E+03	0.04
332	FORE	1	0.000E+00	1.113E+02	9.961E+01		
			1.530E+02	-1.197E+03	-2.767E+02	1.627E+03	0.05
	FORE	2	2.230E+02	1.113E+02	9.961E+01		
			1.530E+02	0.000E+00	-2.767E+02	4.056E+02	0.01
	FORE	3	2.230E+02	1.113E+02	9.961E+01		
			1.530E+02	0.000E+00	2.767E+02	5.778E+02	0.02

STATIC ANALYSIS
CDF CMEX UPGRADE: FRAME ANALYSIS
LOADING 1 - PRETENSION LOAD ON BLUE FRAME

BEAM	END	PT.	T SHEAR P/A	Y SHEAR Y BENDING	Z SHEAR Z BENDING	COMBINED	STRESS RATIO
333	FORE	1	0.000E+00	2.764E+02	-3.743E+01		
			8.534E+01	-6.868E+02	-2.116E+02	9.837E+02	0.03
	FORE	2	-3.582E+03	2.764E+02	-3.743E+01		
			8.534E+01	0.000E+00	-2.116E+02	6.206E+03	0.17
	FORE	3	-3.582E+03	2.764E+02	-3.743E+01		
			8.534E+01	0.000E+00	2.116E+02	6.212E+03	0.17
334	FORE	1	0.000E+00	4.176E+01	3.743E+01		
			1.071E+02	-3.105E+02	-1.145E+02	5.321E+02	0.01
	FORE	2	1.765E+02	4.176E+01	3.743E+01		
			1.071E+02	0.000E+00	-1.145E+02	3.059E+02	0.01
	FORE	3	1.765E+02	4.176E+01	3.743E+01		
			1.071E+02	0.000E+00	1.145E+02	3.776E+02	0.01
345	AFT	1	0.000E+00	-3.747E+01	-2.710E+01		
			-4.511E+02	-5.773E+02	-1.173E+03	2.202E+03	0.06
	AFT	2	2.680E+02	-3.747E+01	-2.710E+01		
			-4.511E+02	7.677E+02	0.000E+00	5.618E+02	0.02
	AFT	3	0.000E+00	-3.747E+01	-2.710E+01		
			-4.511E+02	-5.773E+02	1.173E+03	1.450E+02	0.00
346	AFT	1	0.000E+00	-4.439E+01	-8.784E+00		
			1.269E+03	-1.868E+02	-1.370E+03	2.877E+02	0.01
	AFT	2	4.132E+02	-4.439E+01	-8.784E+00		
			1.269E+03	2.483E+02	0.000E+00	1.678E+03	0.05
	AFT	3	0.000E+00	-4.439E+01	-8.784E+00		
			1.269E+03	-1.868E+02	1.370E+03	2.453E+03	0.07
347	FORE	1	0.000E+00	3.874E+01	-1.714E+01		
			-1.322E+03	4.041E+02	-1.272E+03	2.190E+03	0.06
	FORE	2	-3.417E+02	3.874E+01	-1.714E+01		
			-1.322E+03	-5.374E+02	0.000E+00	1.951E+03	0.05
	FORE	3	0.000E+00	3.874E+01	-1.714E+01		
			-1.322E+03	4.041E+02	1.272E+03	3.539E+02	0.01
348	FORE	1	0.000E+00	2.053E+01	2.747E+01		
			3.382E+01	-5.215E+02	-1.010E+03	1.497E+03	0.04
	FORE	2	-1.883E+02	2.053E+01	2.747E+01		
			3.382E+01	6.935E+02	0.000E+00	7.971E+02	0.02
	FORE	3	0.000E+00	2.053E+01	2.747E+01		
			3.382E+01	-5.215E+02	1.010E+03	5.218E+02	0.01

STATIC ANALYSIS
CDF CMEX UPGRADE: FRAME ANALYSIS
LOADING 1 - PRETENSION LOAD ON BLUE FRAME

BEAM	END	PT.	T SHEAR P/A	Y SHEAR Y BENDING	Z SHEAR Z BENDING	COMBINED	STRESS RATIO
357	AFT	1	0.000E+00	8.417E+01	-2.764E+01		
			1.155E+02	-9.679E+02	2.057E+02	1.289E+03	0.04
	AFT	2	6.735E+02	8.417E+01	-2.764E+01		
			1.155E+02	0.000E+00	2.057E+02	1.210E+03	0.03
	AFT	3	6.735E+02	8.417E+01	-2.764E+01		
			1.155E+02	0.000E+00	-2.057E+02	1.170E+03	0.03
358	FORE	1	0.000E+00	2.341E+02	2.764E+01		
			7.791E+01	-6.086E+02	-4.989E+02	1.185E+03	0.03
	FORE	2	7.183E+02	2.341E+02	2.764E+01		
			7.791E+01	0.000E+00	-4.989E+02	1.313E+03	0.04
	FORE	3	7.183E+02	2.341E+02	2.764E+01		
			7.791E+01	0.000E+00	4.989E+02	1.371E+03	0.04
359	AFT	1	0.000E+00	1.047E+02	1.390E+02		
			3.564E+01	1.513E+03	2.820E+02	1.831E+03	0.05
	AFT	2	-2.805E+02	1.047E+02	1.390E+02		
			3.564E+01	0.000E+00	2.820E+02	5.804E+02	0.02
	AFT	3	-2.805E+02	1.047E+02	1.390E+02		
			3.564E+01	0.000E+00	-2.820E+02	5.447E+02	0.02
360	FORE	1	0.000E+00	-1.764E+02	-1.073E+02		
			-4.517E+01	8.129E+02	2.003E+02	1.058E+03	0.03
	FORE	2	3.163E+01	-1.764E+02	-1.073E+02		
			-4.517E+01	0.000E+00	2.003E+02	1.646E+02	0.00
	FORE	3	3.163E+01	-1.764E+02	-1.073E+02		
			-4.517E+01	0.000E+00	-2.003E+02	2.516E+02	0.01
361	FORE	1	0.000E+00	-2.462E+02	-1.004E+02		
			2.946E+01	1.035E+03	1.108E+02	1.175E+03	0.03
	FORE	2	-9.653E+01	-2.462E+02	-1.004E+02		
			2.946E+01	0.000E+00	1.108E+02	2.183E+02	0.01
	FORE	3	-9.653E+01	-2.462E+02	-1.004E+02		
			2.946E+01	0.000E+00	-1.108E+02	1.860E+02	0.01
362	FORE	1	0.000E+00	-3.449E+02	-8.944E+01		
			-1.937E+01	1.007E+03	2.364E+02	1.263E+03	0.04
	FORE	2	2.298E+00	-3.449E+02	-8.944E+01		
			-1.937E+01	0.000E+00	2.364E+02	2.171E+02	0.01
	FORE	3	2.298E+00	-3.449E+02	-8.944E+01		
			-1.937E+01	0.000E+00	-2.364E+02	2.558E+02	0.01

STATIC ANALYSIS
CDF CMEX UPGRADE: FRAME ANALYSIS
LOADING 1 - PRETENSION LOAD ON BLUE FRAME

BEAM	END	PT.	T SHEAR P/A	Y SHEAR Y BENDING	Z SHEAR Z BENDING	COMBINED	STRESS RATIO
363	FORE	1	0.000E+00	-4.195E+02	-5.836E+01		
			-9.781E+00	5.192E+02	3.020E+02	8.309E+02	0.02
	FORE	2	-3.080E+02	-4.195E+02	-5.836E+01		
			-9.781E+00	0.000E+00	3.020E+02	6.083E+02	0.02
	FORE	3	-3.080E+02	-4.195E+02	-5.836E+01		
			-9.781E+00	0.000E+00	-3.020E+02	6.179E+02	0.02
364	FORE	1	0.000E+00	-4.522E+02	-3.495E+01		
			1.539E+00	6.109E+02	4.223E+02	1.035E+03	0.03
	FORE	2	1.297E+02	-4.522E+02	-3.495E+01		
			1.539E+00	0.000E+00	4.223E+02	4.797E+02	0.01
	FORE	3	1.297E+02	-4.522E+02	-3.495E+01		
			1.539E+00	0.000E+00	-4.223E+02	4.770E+02	0.01
365	AFT	1	0.000E+00	4.816E+02	-2.599E+01		
			2.944E+01	-2.794E+02	4.743E+02	7.832E+02	0.02
	AFT	2	-4.862E+02	4.816E+02	-2.599E+01		
			2.944E+01	0.000E+00	4.743E+02	9.814E+02	0.03
	AFT	3	-4.862E+02	4.816E+02	-2.599E+01		
			2.944E+01	0.000E+00	-4.743E+02	9.525E+02	0.03
366	AFT	1	0.000E+00	3.589E+02	-1.016E+02		
			-1.953E+02	-1.993E+03	-6.619E+01	2.254E+03	0.06
	AFT	2	-1.007E+03	3.589E+02	-1.016E+02		
			-1.953E+02	0.000E+00	-6.619E+01	1.764E+03	0.05
	AFT	3	-1.007E+03	3.589E+02	-1.016E+02		
			-1.953E+02	0.000E+00	6.619E+01	1.749E+03	0.05

MAXIMUM STRESS = 2.436E+04 ON BEAM 271

STATIC ANALYSIS
CDF CMEX UPGRADE: FRAME ANALYSIS
LOADING 1 - PRETENSION LOAD ON BLUE FRAME

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

PAGE

LOAD CASE NO. 1: PRETENSION LOAD ON BLUE FRAME

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MEMBER FORCES 15
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