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REBIS
AutoPIPE 6.20 RESULT PAGE 1

D I S P L A C E M E N T S

Point name	Load combination	TRANSLATIONS (mm)			ROTATIONS (deg)		
		X	Y	Z	X	Y	Z
*** Segment A begin *** Line # 79319822							
A00	T1	-4.700	2.200	-228.900	0.000	0.000	0.000
A01	T1	-5.920	2.769	-228.901	0.000	0.001	0.000
A02 N	T1	-5.920	2.769	-228.901	0.000	0.001	0.000
A02 F	T1	-7.497	3.437	-227.573	0.011	0.061	-0.007
A03 N	T1	-8.834	3.667	-222.993	0.011	0.068	-0.007
A03 F	T1	-8.195	4.255	-220.959	0.005	0.121	-0.012
A04 N	T1	-3.969	6.170	-218.034	0.008	0.125	-0.012
A04 F	T1	-3.502	6.286	-217.711	0.008	0.125	-0.012
A05 N	T1	-0.896	6.441	-215.920	0.010	0.124	-0.012
A05 F	T1	-0.091	6.228	-215.373	0.009	0.117	-0.013
A06 N	T1	0.375	5.927	-215.057	0.010	0.116	-0.013
A06 F	T1	0.878	5.309	-213.034	0.013	0.083	-0.026
A07 N	T1	-2.663	5.987	-202.913	0.017	0.071	-0.027
A07 F	T1	-4.219	6.710	-201.739	0.022	0.029	-0.013
A08 N	T1	-4.773	6.989	-201.786	0.023	0.028	-0.013
A08 F	T1	-5.519	7.148	-201.815	0.022	0.018	-0.012
A09 N	T1	-8.971	6.989	-201.784	0.025	0.017	-0.012
A09 F	T1	-9.986	6.525	-201.695	0.029	0.012	-0.010
A10 N	T1	-11.946	4.438	-201.285	0.031	0.014	-0.009
A10 F	T1	-12.340	3.407	-201.069	0.029	0.016	-0.007
A11 N	T1	-12.249	-0.065	-200.297	0.028	0.019	-0.007
A11 F	T1	-12.386	-1.364	-198.742	-0.010	0.033	0.000
A12	T1	-16.403	-3.388	-175.664	-0.027	0.042	-0.002
A13	T1	-20.707	-6.789	-152.585	-0.036	0.039	-0.004
A14	T1	-24.090	-10.586	-129.507	-0.035	0.024	-0.006

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D I S P L A C E M E N T S

Point name	Load combination	TRANSLATIONS (mm)			ROTATIONS (deg)		
		X	Y	Z	X	Y	Z
A15	T1	-25.157	-12.594	-116.045	-0.030	0.010	-0.007
A16	T1	-25.343	-13.798	-106.429	-0.025	-0.002	-0.008
A17	T1	-23.936	-15.306	-87.515	-0.009	-0.032	-0.010
A18	T1	-23.266	-15.450	-83.351	-0.006	-0.039	-0.011
A19	T1	-23.127	-15.470	-82.582	-0.005	-0.040	-0.011
A20	T1	-16.110	-14.396	-59.505	0.028	-0.095	-0.017
A21	T1	-3.147	-9.323	-36.428	0.071	-0.154	-0.023
A22 N	T1	4.595	-5.515	-26.242	0.094	-0.181	-0.026
A22 F	T1	5.104	-5.399	-25.078	0.113	-0.204	-0.027
A23 N	T1	7.201	-6.830	-12.848	0.130	-0.224	-0.029
A23 F	T1	6.734	-7.005	-11.068	0.141	-0.248	-0.028
A24 N	T1	4.347	-7.310	-8.363	0.146	-0.252	-0.028
A24 F	T1	3.922	-7.182	-7.052	0.150	-0.263	-0.025
A25 N	T1	4.172	-6.463	-4.287	0.153	-0.265	-0.026
A25 F	T1	3.760	-6.308	-2.928	0.157	-0.274	-0.022
A26 N	T1	1.922	-6.492	-0.636	0.161	-0.275	-0.022
A26 F	T1	0.633	-5.436	-0.060	0.176	-0.272	-0.022
A27 N	T1	0.529	-4.366	-0.919	0.178	-0.273	-0.022
A27 F	T1	1.506	-2.453	-1.029	0.209	-0.276	-0.019
A28	T1	1.520	-2.440	-1.020	0.209	-0.276	-0.019
A29	T1	2.202	-1.765	-0.608	0.211	-0.277	-0.019
A30	T1	3.210	-0.765	0.000	0.211	-0.277	-0.019
A31	T1	3.555	-1.373	1.000	0.211	-0.277	-0.019
A32 N	T1	5.753	-5.180	7.452	0.215	-0.284	-0.018
A32 F	T1	6.916	-5.069	8.906	0.185	-0.291	-0.021
A33 N	T1	12.273	-1.826	12.936	0.170	-0.295	-0.021

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D I S P L A C E M E N T S

Point name	Load combination	TRANSLATIONS (mm)			ROTATIONS (deg)		
		X	Y	Z	X	Y	Z
A33 F	T1	12.589	-1.301	15.020	0.149	-0.304	-0.031
A34	T1	7.026	-2.068	22.513	0.124	-0.282	-0.030
*** Segment A end *** Line # 79319822							
*** Segment B begin *** Line # 79319822							
A17	T1	-23.936	-15.306	-87.515	-0.009	-0.032	-0.010
B01	T1	-24.846	-15.329	-87.358	0.013	-0.042	-0.001
*** Segment B end *** Line # 79319822							
*** Segment C begin *** Line # 79319822							
C00	T1	0.000	-3.400	28.500	0.000	0.000	0.000
C01 N	T1	0.011	-4.404	28.778	0.004	-0.020	0.001
C01 F	T1	0.969	-5.183	28.808	0.000	-0.092	-0.021
C02 N	T1	3.240	-4.962	27.698	0.017	-0.121	-0.022
C02 F	T1	4.024	-3.989	26.878	0.070	-0.194	-0.025
C03 N	T1	3.952	-3.366	26.674	0.073	-0.202	-0.026
C03 F	T1	4.726	-2.374	25.370	0.115	-0.264	-0.029
A34	T1	7.026	-2.068	22.513	0.124	-0.282	-0.030
*** Segment C end *** Line # 79319822							
*** Segment D begin *** Line #							
D00	T1	17.842	1.185	2.532	-0.304	-0.279	-0.009
D01 N	T1	15.450	4.345	-0.312	-0.186	-0.094	-0.022
D01 F	T1	15.685	4.408	-0.984	-0.103	0.020	-0.031
D02 N	T1	23.120	-0.855	3.667	0.000	0.337	-0.003
D02 F	T1	24.137	-1.140	3.660	-0.015	0.344	0.005
D03 N	T1	40.450	25.924	-31.520	-0.271	-0.485	0.431
D03 F	T1	40.181	26.923	-31.455	-0.274	-0.558	0.425
D04 N	T1	46.844	31.181	-27.361	-0.210	-0.831	0.451

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D I S P L A C E M E N T S

Point name	Load combination	TRANSLATIONS (mm)			ROTATIONS (deg)		
		X	Y	Z	X	Y	Z
D04 F	T1	47.004	32.655	-25.211	-0.176	-0.898	0.448
D05 N	T1	39.519	43.623	-1.686	0.074	-1.054	0.456
D05 F	T1	36.853	44.275	-0.106	0.126	-1.066	0.443
D06 N	T1	20.229	41.381	-3.501	0.250	-1.094	0.443
D06 F	T1	17.636	41.505	-2.219	0.299	-1.112	0.430
D07	T1	17.636	41.505	-2.219	0.299	-1.112	0.430
D08	T1	16.544	42.243	0.000	0.300	-1.112	0.430
D09	T1	14.946	41.613	-0.786	0.300	-1.112	0.430
D10 N	T1	14.946	41.613	-0.787	0.300	-1.112	0.430
D10 F	T1	14.354	41.415	-0.987	0.312	-1.114	0.431
D11 N	T1	-7.912	33.655	-5.329	0.476	-1.152	0.429
D11 F	T1	-9.930	31.757	-8.042	0.532	-1.174	0.442
D12 N	T1	-7.825	22.936	-29.173	0.728	-1.137	0.439
D12 F	T1	-6.847	22.200	-33.168	0.773	-1.104	0.446
D13	T1	-6.842	22.203	-33.181	0.773	-1.104	0.446
D14 N	T1	2.430	26.164	-55.504	0.809	-0.861	0.413
D14 F	T1	1.458	24.947	-57.497	0.762	-0.820	0.409
D15 N	T1	1.054	24.571	-57.605	0.759	-0.816	0.408
D15 F	T1	-1.377	22.589	-56.665	0.713	-0.770	0.384
D16 N	T1	-2.305	22.004	-55.240	0.704	-0.752	0.380
D16 F	T1	-2.891	20.525	-55.390	0.691	-0.710	0.360
D17	T1	-2.888	20.518	-55.402	0.691	-0.710	0.360
D18 N	T1	-2.600	19.760	-56.711	0.685	-0.695	0.356
D18 F	T1	-1.657	19.244	-59.573	0.648	-0.631	0.342
D19 N	T1	-1.065	19.583	-60.947	0.640	-0.607	0.338
D19 F	T1	-1.627	18.721	-62.613	0.593	-0.550	0.338

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DISPLACEMENTS

Point name	Load combination	TRANSLATIONS (mm)			ROTATIONS (deg)		
		X	Y	Z	X	Y	Z
D20	T1	-4.156	15.949	-63.667	0.566	-0.508	0.325
D21 N	T1	-25.457	-15.227	-86.748	0.052	-0.047	0.023
D21 F	T1	-25.090	-15.328	-87.310	0.020	-0.043	0.001
B01	T1	-24.846	-15.329	-87.358	0.013	-0.042	-0.001
*** Segment D end *** Line #							
*** Segment E begin *** Line #							
E00	T1	-5.600	-1.000	-16.500	0.000	0.000	0.000
E01	T1	-7.492	-1.324	-16.501	0.004	0.001	0.005
E02 N	T1	-7.492	-1.324	-16.501	0.004	0.001	0.005
E02 F	T1	-10.300	0.814	-18.942	-0.119	-0.089	0.278
E03 N	T1	-11.216	2.004	-21.172	-0.119	-0.100	0.300
E03 F	T1	-11.586	6.096	-21.280	-0.280	-0.391	0.264
E04 N	T1	-7.119	9.752	-16.574	-0.286	-0.446	0.264
E04 F	T1	1.222	8.385	-10.729	-0.354	-0.726	0.280
E05 N	T1	15.853	1.413	-6.363	-0.346	-0.740	0.235
E05 F	T1	20.385	-0.245	1.685	-0.351	-0.352	0.002
E06	T1	20.001	-0.246	2.299	-0.349	-0.350	0.000
E07	T1	19.234	-0.259	3.514	-0.344	-0.346	-0.005
E08	T1	7.325	-1.474	20.413	-0.269	-0.275	-0.022
*** Segment E end *** Line #							
*** Segment F begin *** Line #							
E06	T1	20.001	-0.246	2.299	-0.349	-0.350	0.000
F01	T1	18.622	1.177	1.316	-0.289	-0.269	-0.009
*** Segment F end *** Line #							
*** Segment G begin *** Line #							
E07	T1	19.234	-0.259	3.514	-0.344	-0.346	-0.005

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D I S P L A C E M E N T S

Point name	Load combination	TRANSLATIONS (mm)			ROTATIONS (deg)		
		X	Y	Z	X	Y	Z
D00	T1	17.842	1.185	2.532	-0.304	-0.279	-0.009
*** Segment G end *** Line #							
*** Segment H begin *** Line #							
E08	T1	7.325	-1.474	20.413	-0.269	-0.275	-0.022
H01 N	T1	7.324	-1.474	20.413	-0.269	-0.275	-0.022
H01 F	T1	4.657	1.874	22.055	-0.139	-0.014	0.081
H02 N	T1	5.096	4.039	21.568	-0.134	-0.011	0.080
H02 F	T1	3.031	6.543	20.863	-0.052	-0.041	-0.039
H03	T1	1.304	6.223	21.190	-0.049	-0.042	-0.041
H04	T1	-2.917	5.404	22.053	-0.043	-0.047	-0.042
H05	T1	-2.918	5.404	22.054	-0.043	-0.047	-0.042
H06	T1	-4.070	5.186	22.277	-0.051	-0.045	-0.042
H07	T1	-5.414	4.924	22.532	-0.067	-0.047	-0.044
*** Segment H end *** Line #							
*** Segment I begin *** Line #							
H03	T1	1.304	6.223	21.190	-0.049	-0.042	-0.041
I01	T1	1.041	7.090	20.620	-0.043	-0.034	-0.044
*** Segment I end *** Line #							
*** Segment J begin *** Line #							
H04	T1	-2.917	5.404	22.053	-0.043	-0.047	-0.042
J01	T1	-3.131	6.534	22.292	-0.041	-0.056	-0.043
J02 N	T1	-3.132	6.537	22.292	-0.041	-0.056	-0.043
J02 F	T1	-5.577	7.286	21.826	0.098	-0.012	-0.112
J03 N	T1	-5.577	7.286	21.826	0.098	-0.012	-0.112
J03 F	T1	-6.610	6.011	20.084	0.096	0.090	-0.059
J04 N	T1	-6.610	6.011	20.084	0.096	0.090	-0.059

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D I S P L A C E M E N T S

Point name	Load combination	TRANSLATIONS (mm)			ROTATIONS (deg)		
		X	Y	Z	X	Y	Z
J04 F	T1	-3.832	5.085	19.374	0.137	0.091	0.037
J05	T1	-2.881	4.905	19.768	0.129	0.085	0.038
J06	T1	2.637	3.966	19.797	0.088	-0.073	0.033
J07	T1	3.407	3.849	19.542	0.088	-0.073	0.033
*** Segment J end *** Line #							
*** Segment K begin *** Line #							
H05	T1	-2.918	5.404	22.054	-0.043	-0.047	-0.042
K01	T1	-2.721	4.273	21.890	-0.025	-0.053	-0.036
K02 N	T1	-1.917	-4.887	22.323	0.018	-0.092	-0.006
K02 F	T1	-4.095	-6.010	22.168	-0.082	-0.067	0.069
K03 N	T1	-4.095	-6.010	22.168	-0.082	-0.067	0.069
K03 F	T1	-5.726	-5.086	20.817	-0.075	-0.005	0.032
K04 N	T1	-5.726	-5.086	20.817	-0.075	-0.005	0.032
K04 F	T1	-3.668	-4.388	19.555	-0.094	0.074	-0.026
K05	T1	-2.718	-4.264	19.880	-0.088	0.073	-0.026
K06	T1	2.797	-3.625	19.792	-0.060	-0.078	-0.023
K07	T1	3.566	-3.546	19.521	-0.060	-0.078	-0.023
*** Segment K end *** Line #							
*** Segment L begin *** Line #							
J05	T1	-2.881	4.905	19.768	0.129	0.085	0.038
L01	T1	-2.379	4.378	18.887	0.124	0.131	0.031
L02	T1	0.000	2.900	14.800	0.000	0.000	0.000
*** Segment L end *** Line #							
*** Segment M begin *** Line #							
K05	T1	-2.718	-4.264	19.880	-0.088	0.073	-0.026
M01	T1	-2.263	-3.905	18.997	-0.084	0.121	-0.021

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D I S P L A C E M E N T S

Point name	Load combination	TRANSLATIONS (mm)			ROTATIONS (deg)		
		X	Y	Z	X	Y	Z
M02	T1	0.000	-2.900	14.900	0.000	0.000	0.000
*** Segment M end *** Line #							
*** Segment N begin *** Line #							
J06	T1	2.637	3.966	19.797	0.088	-0.073	0.033
N01	T1	2.190	3.636	18.912	0.075	-0.118	0.028
N02	T1	0.000	2.900	14.800	0.000	0.000	0.000
*** Segment N end *** Line #							
*** Segment O begin *** Line #							
K06	T1	2.797	-3.625	19.792	-0.060	-0.078	-0.023
O01	T1	2.323	-3.400	18.907	-0.051	-0.125	-0.019
O02	T1	0.000	-2.900	14.800	0.000	0.000	0.000
*** Segment O end *** Line #							
*** Segment Q begin *** Line #							
Q00	T1	0.000	0.000	-5.200	0.000	0.000	0.000
Q01 N	T1	0.012	0.012	-6.977	-0.003	0.003	-0.001
Q01 F	T1	0.080	1.252	-8.049	-0.026	0.017	0.002
Q02	T1	0.080	1.263	-8.047	-0.026	0.018	0.002
Q03	T1	0.084	1.836	-7.977	-0.027	0.019	0.002
Q04 N	T1	0.088	3.732	-7.731	-0.029	0.030	0.000
Q04 F	T1	-0.119	4.504	-6.736	-0.025	0.058	-0.018
Q05 N	T1	-0.928	4.191	-3.953	-0.025	0.069	-0.022
Q05 F	T1	-1.386	4.971	-2.970	-0.024	0.096	-0.038
Q06 N	T1	-1.646	6.446	-2.810	-0.023	0.103	-0.039
Q06 F	T1	-0.934	7.502	-2.292	-0.019	0.118	-0.046
Q07 N	T1	3.748	8.479	0.290	-0.002	0.121	-0.045
Q07 F	T1	4.194	8.677	1.630	0.011	0.100	-0.048

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D I S P L A C E M E N T S

Point name	Load combination	TRANSLATIONS (mm)			ROTATIONS (deg)		
		X	Y	Z	X	Y	Z
Q08 N	T1	0.129	9.613	11.928	0.024	0.072	-0.036
Q08 F	T1	0.114	9.680	12.403	0.024	0.061	-0.036
Q09 N	T1	0.364	9.842	13.338	0.024	0.057	-0.035
Q09 F	T1	0.687	9.258	14.259	0.012	0.035	-0.038
Q10 N	T1	0.757	8.766	14.395	0.012	0.032	-0.038
Q10 F	T1	0.798	8.078	15.274	-0.008	0.009	-0.045
Q11 N	T1	0.823	7.791	19.792	-0.021	-0.012	-0.039
Q11 F	T1	0.935	7.448	20.375	-0.041	-0.032	-0.044
I01	T1	1.041	7.090	20.620	-0.043	-0.034	-0.044
*** Segment Q end *** Line #							
*** Segment R begin *** Line #							
R00	T1	10.129	0.046	35.440	0.050	0.001	0.006
R01	T1	10.130	-1.107	35.632	0.016	-0.054	-0.012
R02	T1	10.180	-1.876	35.669	0.000	-0.076	-0.021
R03	T1	10.260	-2.645	35.655	-0.012	-0.090	-0.028
R04	T1	10.361	-3.414	35.587	-0.023	-0.077	-0.029
R05	T1	10.469	-4.183	35.467	-0.041	-0.053	-0.031
R06 N	T1	11.015	-8.315	33.819	-0.112	0.131	-0.019
R06 F	T1	9.687	-9.123	31.404	-0.271	0.418	0.119
R07	T1	9.687	-9.123	31.404	-0.271	0.418	0.119
R08	T1	9.302	-8.912	30.662	-0.270	0.427	0.122
*** Segment R end *** Line #							
*** Segment S begin *** Line #							
R03	T1	10.260	-2.645	35.655	-0.012	-0.090	-0.028
S01	T1	9.792	-2.593	34.775	-0.015	-0.135	-0.044
S02 N	T1	-2.631	-0.835	22.685	-0.057	-0.248	-0.164

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D I S P L A C E M E N T S

Point name	Load combination	TRANSLATIONS (mm)			ROTATIONS (deg)		
		X	Y	Z	X	Y	Z
S02 F	T1	-4.608	1.026	22.018	-0.175	-0.142	-0.161
S03 N	T1	-5.881	2.719	22.762	-0.170	-0.122	-0.166
S03 F	T1	-5.414	4.924	22.532	-0.067	-0.047	-0.044
H07	T1	-5.414	4.924	22.532	-0.067	-0.047	-0.044
*** Segment S end *** Line #							
*** Segment T begin *** Line #							
T00	T1	0.000	0.000	-95.000	0.000	0.000	0.000
T01	T1	-0.019	1.799	-94.817	-0.042	-0.136	-0.004
T02 N	T1	-0.019	1.801	-94.817	-0.042	-0.136	-0.004
T02 F	T1	-0.029	1.887	-94.794	-0.047	-0.143	-0.004
T03	T1	-0.030	1.890	-94.793	-0.047	-0.143	-0.004
T04 N	T1	-0.475	3.963	-93.830	-0.066	-0.297	-0.002
T04 F	T1	-0.608	4.195	-93.568	-0.078	-0.323	0.001
T05	T1	-0.610	4.197	-93.565	-0.078	-0.323	0.001
T06 N	T1	-3.441	7.293	-86.775	-0.035	-0.551	0.022
T06 F	T1	-3.712	7.466	-85.886	-0.034	-0.584	0.030
T07 N	T1	-11.720	10.934	-50.974	0.130	-0.672	0.097
T07 F	T1	-10.786	11.427	-49.244	0.149	-0.629	0.109
T08 N	T1	6.585	17.171	-42.457	0.223	-0.511	0.156
T08 F	T1	7.331	17.231	-41.540	0.241	-0.493	0.167
T09 N	T1	5.418	14.300	-37.658	0.238	-0.447	0.172
T09 F	T1	5.679	13.564	-38.013	0.224	-0.436	0.172
T10 N	T1	6.725	12.946	-39.688	0.210	-0.431	0.171
T10 F	T1	8.051	13.036	-40.052	0.193	-0.428	0.174
T11 N	T1	40.949	19.362	-25.130	-0.012	-0.602	0.157
T11 F	T1	41.827	19.610	-23.450	-0.034	-0.646	0.151

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D I S P L A C E M E N T S

Point name	Load combination	TRANSLATIONS (mm)			ROTATIONS (deg)		
		X	Y	Z	X	Y	Z
T12	T1	39.454	21.721	-13.282	-0.098	-0.690	0.148
T13 N	T1	39.452	21.723	-13.274	-0.098	-0.690	0.148
T13 F	T1	39.333	21.925	-12.515	-0.104	-0.693	0.147
T14	T1	39.332	21.927	-12.508	-0.104	-0.693	0.147
T15 N	T1	39.018	23.171	-8.792	-0.123	-0.692	0.146
T15 F	T1	40.243	23.345	-7.049	-0.140	-0.689	0.141
T16 N	T1	59.804	18.407	-0.790	-0.209	-0.699	0.138
T16 F	T1	60.171	18.302	-0.620	-0.213	-0.701	0.137
T17	T1	60.171	18.302	-0.619	-0.213	-0.701	0.137
T18	T1	61.146	18.034	0.000	-0.213	-0.701	0.137
T19	T1	62.006	17.625	-1.354	-0.213	-0.701	0.137
T20 N	T1	62.006	17.625	-1.354	-0.213	-0.701	0.137
T20 F	T1	63.784	16.956	-2.004	-0.229	-0.703	0.141
T21 N	T1	71.153	14.421	0.301	-0.256	-0.707	0.140
T21 F	T1	73.071	13.591	-0.608	-0.274	-0.713	0.144
T22 N	T1	79.916	9.403	-16.588	-0.361	-0.584	0.143
T22 F	T1	80.268	8.509	-18.411	-0.359	-0.512	0.149
T23	T1	80.266	8.505	-18.416	-0.359	-0.512	0.149
T24 N	T1	79.106	5.809	-22.068	-0.353	-0.351	0.142
T24 F	T1	79.480	4.680	-22.266	-0.322	-0.278	0.154
T25	T1	61.219	-9.741	0.804	0.031	0.486	0.024
T26 N	T1	28.637	-2.844	14.126	0.192	0.544	-0.051
T26 F	T1	27.132	-2.191	13.585	0.206	0.535	-0.052
T27 N	T1	17.020	3.669	-1.895	-0.009	0.093	-0.045
T27 F	T1	16.655	3.749	-1.419	-0.125	-0.050	-0.032
F01	T1	18.622	1.177	1.316	-0.289	-0.269	-0.009

*** Segment T end *** Line #

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D I S P L A C E M E N T S

Point name	Load combination	TRANSLATIONS (mm)			ROTATIONS (deg)		
		X	Y	Z	X	Y	Z
*** Segment U begin *** Line #							
U03	T1	8.891	4.087	31.144	0.267	0.456	-0.038
U00	T1	9.275	4.152	31.935	0.268	0.446	-0.036
U01 N	T1	9.275	4.152	31.935	0.268	0.446	-0.036
U01 F	T1	10.396	3.025	34.374	0.093	0.135	0.023
R00	T1	10.129	0.046	35.440	0.050	0.001	0.006
*** Segment U end *** Line #							
*** Segment V begin *** Line #							
V00	T1	0.000	0.000	0.000	0.000	0.000	0.000
V01	T1	2.736	0.843	5.910	0.101	0.817	-0.114
V02	T1	3.138	1.062	7.489	0.116	0.883	-0.121
V03	T1	3.539	1.293	9.177	0.130	0.937	-0.128
V04	T1	4.827	2.085	15.051	0.176	1.015	-0.134
V05	T1	5.127	2.268	16.433	0.176	1.015	-0.134
V06	T1	5.442	2.460	17.886	0.176	1.015	-0.134
V07	T1	5.742	2.643	19.268	0.176	1.015	-0.134
V08	T1	6.698	3.195	23.525	0.210	0.902	-0.113
V09	T1	7.313	3.511	26.045	0.210	0.902	-0.113
U03	T1	8.891	4.087	31.144	0.267	0.456	-0.038
*** Segment V end *** Line #							
*** Segment W begin *** Line #							
V02	T1	3.138	1.062	7.489	0.116	0.883	-0.121
W01	T1	4.642	0.864	7.112	0.116	0.877	-0.118
W02 N	T1	9.268	0.233	5.937	0.121	0.859	-0.106
W02 F	T1	10.733	0.335	5.275	0.150	0.827	-0.105

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D I S P L A C E M E N T S

Point name	Load combination	TRANSLATIONS (mm)			ROTATIONS (deg)		
		X	Y	Z	X	Y	Z
W03 N	T1	10.982	1.412	4.213	0.154	0.806	-0.093
W03 F	T1	10.679	1.682	2.279	0.134	0.767	-0.032
W04 N	T1	8.112	1.441	-6.421	0.136	0.723	-0.012
W04 F	T1	6.409	1.717	-7.323	0.144	0.587	0.006
W05 N	T1	-2.742	4.068	-3.577	0.128	0.485	0.028
W05 F	T1	-3.595	3.848	-2.951	0.078	0.381	-0.011
W06 N	T1	-3.489	1.105	-2.072	0.068	0.267	-0.009
W06 F	T1	-3.023	0.704	-1.542	0.019	0.160	-0.024
W07 N	T1	-0.456	0.986	-0.106	0.026	0.091	-0.022
W07 F	T1	-0.001	0.578	0.004	-0.002	0.016	-0.001
W08	T1	0.000	0.181	0.001	-0.001	0.005	0.000
W09	T1	0.000	0.000	0.000	0.000	0.000	0.000
*** Segment W end *** Line #							
*** Segment X begin *** Line #							
X00	T1	0.880	0.253	0.519	-0.024	0.257	0.074
X01	T1	0.748	-0.138	0.477	-0.024	0.257	0.074
*** Segment X end *** Line #							
*** Segment Y begin *** Line #							
Y00	T1	0.000	0.000	0.000	0.000	0.000	0.000
X01	T1	0.748	-0.138	0.477	-0.024	0.257	0.074
Y02	T1	2.746	-1.550	5.334	-0.087	0.748	0.218
Y03	T1	3.148	-1.973	6.781	-0.100	0.812	0.237
Y04	T1	3.551	-2.427	8.337	-0.114	0.868	0.253
Y05	T1	4.844	-4.031	13.837	-0.160	0.965	0.281
Y06	T1	5.144	-4.413	15.152	-0.160	0.965	0.281
Y07	T1	5.451	-4.806	16.500	-0.161	0.965	0.281

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Point name	Load combination	TRANSLATIONS (mm)			ROTATIONS (deg)		
		X	Y	Z	X	Y	Z
Y08	T1	5.759	-5.198	17.848	-0.161	0.965	0.281
Y09	T1	6.718	-6.397	21.970	-0.195	0.896	0.260
Y10	T1	7.333	-7.124	24.472	-0.195	0.896	0.260
R08	T1	9.302	-8.912	30.662	-0.270	0.427	0.122
*** Segment Y end *** Line #							
*** Segment Z begin *** Line #							
Y03	T1	3.148	-1.973	6.781	-0.100	0.812	0.237
Z01	T1	4.533	-1.804	6.404	-0.097	0.807	0.237
Z02 N	T1	8.796	-1.318	5.229	-0.085	0.793	0.237
Z02 F	T1	10.691	-0.837	4.871	-0.024	0.762	0.223
Z03 N	T1	12.677	0.406	4.750	-0.012	0.747	0.226
Z03 F	T1	12.950	1.309	3.211	-0.003	0.728	0.244
Z04 N	T1	10.383	4.180	-5.077	0.019	0.690	0.245
Z04 F	T1	8.721	4.711	-5.928	0.032	0.572	0.243
Z05 N	T1	-0.204	5.318	-2.183	0.033	0.471	0.222
Z05 F	T1	-1.387	4.925	-1.717	0.005	0.357	0.156
Z06 N	T1	-3.199	2.181	-1.682	0.006	0.240	0.131
Z06 F	T1	-2.970	1.577	-1.297	-0.023	0.143	0.058
Z07 N	T1	-0.403	1.061	-0.055	0.001	0.075	0.034
Z07 F	T1	0.005	0.578	0.008	-0.006	0.015	0.004
Z08	T1	0.000	0.181	0.001	-0.002	0.005	0.001
Z09	T1	0.000	0.000	0.000	0.000	0.000	0.000
*** Segment Z end *** Line #							

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R E S T R A I N T R E A C T I O N S

Point name	Load combination	FORCES (N)				MOMENTS (Nm)			
		X	Y	Z	Result	X	Y	Z	Result
A00	Anchor T1	-12	-10	118	119	-41	148	5	154
A30	V - Stop T1	[ID: A30 0	1] 0	Mark: Undefined 177	Undefined 177	0	Tag#: Undefined 0	Undefined 0	0
C00	Anchor T1	4	8	-248	248	193	-825	-30	847
D08	V - Stop T1	[ID: D08 0	1] 0	Mark: Undefined -87	Undefined 87	0	Tag#: Undefined 0	Undefined 0	0
E00	Anchor T1	3369	-1245	253	3601	1202	363	1560	2003
L02	Anchor T1	-14513	4102	-5126	15929	5565	11335	650	12644
M02	Anchor T1	-14333	-2756	-2313	14778	-3773	10941	-445	11582
N02	Anchor T1	13714	494	1575	13813	2306	-10541	578	10806
O02	Anchor T1	14545	-323	392	14554	-1564	-11180	-393	11295
Q00	Anchor T1	-15	42	167	172	-195	182	-60	273
T00	Anchor T1	-8	1	27	28	-36	-74	-4	82
T18	V - Stop T1	[ID: T18 0	1] 0	Mark: Undefined -72	Undefined 72	0	Tag#: Undefined 0	Undefined 0	0
V00	Anchor T1	-1861	437	2628	3250	225	3312	-486	3355
W08	Inclined T1	[ID: W08 -6	1] 0	Mark: Undefined 0	Undefined 6	0	Tag#: Undefined 0	Undefined 0	0
W09	Anchor T1	34	-27	40	59	-17	75	-6	77
Y00	Anchor T1	-955	-684	2419	2689	-216	3280	949	3421
Z08	Inclined T1	[ID: Z08 142	1] 0	Mark: Undefined 0	Undefined 142	0	Tag#: Undefined 0	Undefined 0	0

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R E S T R A I N T R E A C T I O N S

Point name	Load combination	FORCES (N)				MOMENTS (Nm)			
		X	Y	Z	Result	X	Y	Z	Result
Z09	Anchor T1	-105	-38	51	122	-39	75	20	87

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G L O B A L F O R C E S & M O M E N T S

Point name	Load combination	FORCES (N)				MOMENTS (Nm)			
		X	Y	Z	Result	X	Y	Z	Result
*** Segment A begin *** Line # 79319822									
A00	T1	12	10	-118	119	41	-148	-5	154
A01	T1	12	10	-118	119	23	-186	-10	187
A02 N	T1	12	10	-118	119	23	-186	-10	187
A02 F	T1	12	10	-118	119	1	-222	-15	222
A03 N	T1	12	10	-118	119	-11	-208	-15	209
A03 F	T1	12	10	-118	119	-28	-165	-13	168
A04 N	T1	12	10	-118	119	-80	-24	-7	84
A04 F	T1	12	10	-118	119	-83	-9	-6	84
A05 N	T1	12	10	-118	119	-84	76	1	113
A05 F	T1	12	10	-118	119	-76	102	4	127
A06 N	T1	12	10	-118	119	-66	116	6	134
A06 F	T1	12	10	-118	119	-46	154	11	162
A07 N	T1	12	10	-118	119	-71	186	11	199
A07 F	T1	12	10	-118	119	-95	155	6	182
A08 N	T1	12	10	-118	119	-105	138	4	174
A08 F	T1	12	10	-118	119	-111	116	1	161
A09 N	T1	12	10	-118	119	-112	12	-7	113
A09 F	T1	12	10	-118	119	-99	-19	-8	101
A10 N	T1	12	10	-118	119	-37	-80	-7	89
A10 F	T1	12	10	-118	119	-6	-93	-5	93
A11 N	T1	12	10	-118	119	101	-92	6	137
A11 F	T1	12	10	-118	119	138	-88	10	164
A12	T1	12	10	-118	119	81	-17	10	83
A13	T1	12	10	-118	119	23	54	10	60
A14	T1	12	10	-118	119	-34	125	10	130

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G L O B A L F O R C E S & M O M E N T S

Point name	Load combination	FORCES (N)				MOMENTS (Nm)			
		X	Y	Z	Result	X	Y	Z	Result
A15	T1	12	10	-118	119	-68	166	10	180
A16	T1	12	10	-118	119	-92	196	10	216
A17 -	T1	12	10	-118	119	-139	254	10	289
A17 +	T1	4	8	-71	71	-114	234	22	261
A18	T1	4	8	-71	71	-123	238	22	269
A19	T1	4	8	-71	71	-125	238	22	270
A20	T1	4	8	-71	71	-175	260	22	314
A21	T1	4	8	-71	71	-225	282	22	361
A22 N	T1	4	8	-71	71	-247	291	22	382
A22 F	T1	4	8	-71	71	-244	287	22	378
A23 N	T1	4	8	-71	71	-181	216	17	282
A23 F	T1	4	8	-71	71	-175	198	15	265
A24 N	T1	4	8	-71	71	-175	154	10	234
A24 F	T1	4	8	-71	71	-176	139	8	225
A25 N	T1	4	8	-71	71	-179	117	5	214
A25 F	T1	4	8	-71	71	-180	102	3	207
A26 N	T1	4	8	-71	71	-180	69	-1	192
A26 F	T1	4	8	-71	71	-201	47	-4	207
A27 N	T1	4	8	-71	71	-221	47	-5	226
A27 F	T1	4	8	-71	71	-244	48	-6	248
A28	T1	4	8	-71	71	-244	48	-6	248
A29	T1	4	8	-71	71	-248	48	-7	252
A30 -	T1	4	8	-71	71	-253	49	-7	258
A30 +	T1	4	8	-248	248	-253	49	-7	258
A31	T1	4	8	-248	248	-201	49	-6	207
A32 N	T1	4	8	-248	248	129	51	-1	138

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G L O B A L F O R C E S & M O M E N T S

Point name	Load combination	FORCES (N)				MOMENTS (Nm)			
		X	Y	Z	Result	X	Y	Z	Result
A32 F	T1	4	8	-248	248	169	52	-1	177
A33 N	T1	4	8	-248	248	160	55	-1	169
A33 F	T1	4	8	-248	248	158	-1	-2	158
A34	T1	4	8	-248	248	158	-359	-15	393
*** Segment A end *** Line # 79319822									
*** Segment B begin *** Line # 79319822									
A17	T1	8	1	-47	48	-25	20	-12	34
B01	T1	8	1	-47	48	-25	9	-13	29
*** Segment B end *** Line # 79319822									
*** Segment C begin *** Line # 79319822									
C00	T1	-4	-8	248	248	-193	825	30	847
C01 N	T1	-4	-8	248	248	-258	824	29	864
C01 F	T1	-4	-8	248	248	-312	767	26	829
C02 N	T1	-4	-8	248	248	-312	621	21	695
C02 F	T1	-4	-8	248	248	-255	564	20	620
C03 N	T1	-4	-8	248	248	-215	564	21	604
C03 F	T1	-4	-8	248	248	-158	507	20	532
A34	T1	-4	-8	248	248	-158	359	15	393
*** Segment C end *** Line # 79319822									
*** Segment D begin *** Line #									
D00	T1	-8	-1	-40	41	-52	-86	4	101
D01 N	T1	-8	-1	-40	41	-53	-80	4	96
D01 F	T1	-8	-1	-40	41	-50	-76	4	91
D02 N	T1	-8	-1	-40	41	12	-12	-11	20
D02 F	T1	-8	-1	-40	41	15	-7	-12	21
D03 N	T1	-8	-1	-40	41	4	68	-12	69

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G L O B A L F O R C E S & M O M E N T S

Point name	Load combination	FORCES (N)				MOMENTS (Nm)			
		X	Y	Z	Result	X	Y	Z	Result
D03 F	T1	-8	-1	-40	41	-1	69	-11	70
D04 N	T1	-8	-1	-40	41	-42	69	-3	81
D04 F	T1	-8	-1	-40	41	-46	65	-2	80
D05 N	T1	-8	-1	-40	41	-46	10	0	47
D05 F	T1	-8	-1	-40	41	-46	7	0	47
D06 N	T1	-8	-1	-40	41	-47	14	0	49
D06 F	T1	-8	-1	-40	41	-47	11	0	49
D07	T1	-8	-1	-40	41	-47	11	0	49
D08 -	T1	-8	-1	-40	41	-47	7	0	48
D08 +	T1	-8	-1	47	48	-47	7	0	48
D09	T1	-8	-1	47	48	-48	7	0	48
D10 N	T1	-8	-1	47	48	-48	7	0	48
D10 F	T1	-8	-1	47	48	-48	7	0	48
D11 N	T1	-8	-1	47	48	-49	16	0	52
D11 F	T1	-8	-1	47	48	-49	12	0	51
D12 N	T1	-8	-1	47	48	-49	-36	-1	61
D12 F	T1	-8	-1	47	48	-44	-41	0	60
D13	T1	-8	-1	47	48	-44	-41	0	60
D14 N	T1	-8	-1	47	48	28	-40	12	50
D14 F	T1	-8	-1	47	48	33	-39	13	53
D15 N	T1	-8	-1	47	48	33	-39	13	53
D15 F	T1	-8	-1	47	48	28	-38	12	48
D16 N	T1	-8	-1	47	48	22	-38	11	45
D16 F	T1	-8	-1	47	48	16	-43	10	47
D17	T1	-8	-1	47	48	16	-43	10	47
D18 N	T1	-8	-1	47	48	16	-48	10	52

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Point name	Load combination	FORCES (N)				MOMENTS (Nm)			
		X	Y	Z	Result	X	Y	Z	Result
D18 F	T1	-8	-1	47	48	22	-54	11	59
D19 N	T1	-8	-1	47	48	28	-53	12	61
D19 F	T1	-8	-1	47	48	33	-52	13	63
D20	T1	-8	-1	47	48	32	-50	13	61
D21 N	T1	-8	-1	47	48	25	-1	13	28
D21 F	T1	-8	-1	47	48	25	-6	13	28
B01	T1	-8	-1	47	48	25	-9	13	29
*** Segment D end *** Line #									
*** Segment E begin *** Line #									
E00	T1	-3369	1245	-253	3601	-1202	-363	-1560	2003
E01	T1	-3369	1245	-253	3601	-1180	-487	-2466	2777
E02 N	T1	-3369	1245	-253	3601	-1180	-487	-2466	2777
E02 F	T1	-3369	1245	-253	3601	-394	1416	-3571	3862
E03 N	T1	-3369	1245	-253	3601	328	3371	-3571	4921
E03 F	T1	-3369	1245	-253	3601	934	5426	-1516	5710
E04 N	T1	-3369	1245	-253	3601	693	5426	1690	5725
E04 F	T1	-3369	1245	-253	3601	-221	3371	3745	5044
E05 N	T1	-3369	1245	-253	3601	-1634	-453	3745	4111
E05 F	T1	-3369	1245	-253	3601	-2394	-2663	2986	4662
E06 -	T1	-3369	1245	-253	3601	-2394	-2688	2861	4598
E06 +	T1	-3362	1244	-208	3590	-2316	-2581	2853	4491
E07 -	T1	-3362	1244	-208	3590	-2316	-2623	2604	4362
E07 +	T1	-3353	1246	-167	3581	-2264	-2534	2600	4279
E08	T1	-3353	1246	-167	3581	-2264	-3054	-1267	4008
*** Segment E end *** Line #									
*** Segment F begin *** Line #									

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Point name	Load combination	FORCES (N)				MOMENTS (Nm)			
		X	Y	Z	Result	X	Y	Z	Result
E06	T1	-8	1	-45	46	-77	-107	8	132
F01	T1	-8	1	-45	46	-77	-105	8	130
*** Segment F end		*** Line #							
*** Segment G begin		*** Line #							
E07	T1	-8	-1	-40	41	-52	-88	4	103
D00	T1	-8	-1	-40	41	-52	-86	4	101
*** Segment G end		*** Line #							
*** Segment H begin		*** Line #							
E08	T1	-3353	1246	-167	3581	-2264	-3054	-1267	4008
H01 N	T1	-3353	1246	-167	3581	-2264	-3054	-1267	4008
H01 F	T1	-3353	1246	-167	3581	-1806	-1726	-565	2561
H02 N	T1	-3353	1246	-167	3581	-1437	-574	612	1664
H02 F	T1	-3353	1246	-167	3581	-978	754	1314	1804
H03 -	T1	-3353	1246	-167	3581	-978	679	754	1409
H03 +	T1	-3338	1204	-334	3564	-744	902	716	1371
H04 -	T1	-3338	1204	-334	3564	-744	535	-608	1099
H04 +	T1	-2539	-3392	3216	5319	-651	-964	-869	1452
H05 -	T1	-2539	-3392	3216	5319	-651	-963	-868	1451
H05 +	T1	-2751	-313	5138	5836	3591	-1930	401	4096
H06	T1	-2751	-313	5138	5836	3591	-388	495	3645
H07	T1	-2751	-313	5138	5836	3591	1410	605	3905
*** Segment H end		*** Line #							
*** Segment I begin		*** Line #							
H03	T1	-15	42	167	172	-235	-224	38	327
I01	T1	-15	42	167	172	-196	-221	41	298
*** Segment I end		*** Line #							
*** Segment J begin		*** Line #							

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G L O B A L F O R C E S & M O M E N T S

Point name	Load combination	FORCES (N)				MOMENTS (Nm)			
		X	Y	Z	Result	X	Y	Z	Result
H04	T1	-799	4596	-3550	5862	-92	1499	261	1524
J01	T1	-799	4596	-3550	5862	-1140	1498	496	1946
J02 N	T1	-799	4596	-3550	5862	-1143	1498	496	1949
J02 F	T1	-799	4596	-3550	5862	-2222	25	-1167	2510
J03 N	T1	-799	4596	-3550	5862	-2222	25	-1167	2510
J03 F	T1	-799	4596	-3550	5862	-193	-825	-2724	2852
J04 N	T1	-799	4596	-3550	5862	-193	-825	-2724	2852
J04 F	T1	-799	4596	-3550	5862	1907	1163	-624	2319
J05 -	T1	-799	4596	-3550	5862	1907	2040	512	2839
J05 +	T1	13714	494	1575	13813	1665	9538	-138	9683
J06 -	T1	13714	494	1575	13813	1665	7254	578	7465
J06 +	T1	0	0	0	0	0	0	0	0
J07	T1	0	0	0	0	0	0	0	0
*** Segment J end *** Line #									
*** Segment K begin *** Line #									
H05	T1	212	-3079	-1921	3635	-4242	967	-1269	4532
K01	T1	212	-3079	-1921	3635	-3675	967	-1206	3987
K02 N	T1	212	-3079	-1921	3635	911	967	-700	1502
K02 F	T1	212	-3079	-1921	3635	1424	94	755	1615
K03 N	T1	212	-3079	-1921	3635	1424	94	756	1615
K03 F	T1	212	-3079	-1921	3635	65	-651	1798	1914
K04 N	T1	212	-3079	-1921	3635	65	-651	1798	1914
K04 F	T1	212	-3079	-1921	3635	-1342	131	391	1404
K05 -	T1	212	-3079	-1921	3635	-1342	605	-369	1518
K05 +	T1	14545	-323	392	14554	-1145	8263	76	8342
K06 -	T1	14545	-323	392	14554	-1145	7694	-393	7789

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G L O B A L F O R C E S & M O M E N T S

Point name	Load combination	FORCES (N)				MOMENTS (Nm)			
		X	Y	Z	Result	X	Y	Z	Result
K06	+ T1	0	0	0	0	0	0	0	0
K07	T1	0	0	0	0	0	0	0	0
*** Segment K end *** Line #									
*** Segment L begin *** Line #									
J05	T1	-14513	4102	-5126	15929	242	-7498	650	7530
L01	T1	-14513	4102	-5126	15929	1186	-4160	650	4374
L02	T1	-14513	4102	-5126	15929	5565	11335	650	12644
*** Segment L end *** Line #									
*** Segment M begin *** Line #									
K05	T1	-14333	-2756	-2313	14778	-197	-7657	-445	7673
M01	T1	-14333	-2756	-2313	14778	-831	-4361	-445	4462
M02	T1	-14333	-2756	-2313	14778	-3773	10941	-445	11582
*** Segment M end *** Line #									
*** Segment N begin *** Line #									
J06	T1	13714	494	1575	13813	1665	7254	578	7465
N01	T1	13714	494	1575	13813	1778	4100	578	4506
N02	T1	13714	494	1575	13813	2306	-10541	578	10806
*** Segment N end *** Line #									
*** Segment O begin *** Line #									
K06	T1	14545	-323	392	14554	-1145	7694	-393	7789
O01	T1	14545	-323	392	14554	-1219	4349	-393	4533
O02	T1	14545	-323	392	14554	-1564	-11180	-393	11295
*** Segment O end *** Line #									
*** Segment Q begin *** Line #									
Q00	T1	15	-42	-167	172	195	-182	60	273
Q01 N	T1	15	-42	-167	172	176	-189	60	265

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G L O B A L F O R C E S & M O M E N T S

Point name	Load combination	FORCES (N)				MOMENTS (Nm)			
		X	Y	Z	Result	X	Y	Z	Result
Q01 F	T1	15	-42	-167	172	112	-193	55	230
Q02	T1	15	-42	-167	172	112	-193	55	230
Q03	T1	15	-42	-167	172	87	-193	53	219
Q04 N	T1	15	-42	-167	172	5	-193	46	199
Q04 F	T1	15	-42	-167	172	-24	-190	42	196
Q05 N	T1	15	-42	-167	172	6	-179	42	184
Q05 F	T1	15	-42	-167	172	-22	-176	39	181
Q06 N	T1	15	-42	-167	172	-86	-176	33	198
Q06 F	T1	15	-42	-167	172	-124	-138	20	186
Q07 N	T1	15	-42	-167	172	-124	65	-31	144
Q07 F	T1	15	-42	-167	172	-115	107	-40	162
Q08 N	T1	15	-42	-167	172	-3	147	-40	152
Q08 F	T1	15	-42	-167	172	2	154	-42	159
Q09 N	T1	15	-42	-167	172	11	177	-47	183
Q09 F	T1	15	-42	-167	172	50	196	-48	208
Q10 N	T1	15	-42	-167	172	73	196	-46	215
Q10 F	T1	15	-42	-167	172	112	200	-43	233
Q11 N	T1	15	-42	-167	172	162	217	-43	274
Q11 F	T1	15	-42	-167	172	180	220	-42	287
I01	T1	15	-42	-167	172	196	221	-41	298
*** Segment Q end *** Line #									
*** Segment R begin *** Line #									
R00	T1	1833	-409	-2668	3263	2663	3878	1351	4895
R01	T1	1833	-409	-2668	3263	3463	3878	1901	5536
R02	T1	1833	-409	-2668	3263	3997	3878	2268	6013
R03 -	T1	1833	-409	-2668	3263	4530	3878	2635	6520

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G L O B A L F O R C E S & M O M E N T S

Point name	Load combination	FORCES (N)				MOMENTS (Nm)			
		X	Y	Z	Result	X	Y	Z	Result
R03 +	T1	-918	-722	2469	2732	4152	-3611	572	5532
R04	T1	-918	-722	2469	2732	3658	-3611	388	5155
R05	T1	-918	-722	2469	2732	3164	-3611	205	4806
R06 N	T1	-918	-722	2469	2732	509	-3611	-782	3730
R06 F	T1	-918	-722	2469	2732	-244	-2858	-842	2990
R07	T1	-918	-722	2469	2732	-244	-2858	-841	2989
R08	T1	-918	-722	2469	2732	-244	-2611	-769	2733
*** Segment R end *** Line #									
*** Segment S begin *** Line #									
R03	T1	2751	313	-5138	5836	378	7490	2063	7778
S01	T1	2751	313	-5138	5836	450	6857	2063	7175
S02 N	T1	2751	313	-5138	5836	1437	-1816	2063	3102
S02 F	T1	2751	313	-5138	5836	102	-2829	1286	3109
S03 N	T1	2751	313	-5138	5836	-1731	-3096	289	3559
S03 F	T1	2751	313	-5138	5836	-3591	-1410	-605	3905
H07	T1	2751	313	-5138	5836	-3591	-1410	-605	3905
*** Segment S end *** Line #									
*** Segment T begin *** Line #									
T00	T1	8	-1	-27	28	36	74	4	82
T01	T1	8	-1	-27	28	23	74	1	78
T02 N	T1	8	-1	-27	28	23	74	1	78
T02 F	T1	8	-1	-27	28	23	74	1	77
T03	T1	8	-1	-27	28	23	74	1	77
T04 N	T1	8	-1	-27	28	8	71	-3	72
T04 F	T1	8	-1	-27	28	7	70	-4	71
T05	T1	8	-1	-27	28	7	70	-4	71

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G L O B A L F O R C E S & M O M E N T S

Point name	Load combination	FORCES (N)				MOMENTS (Nm)			
		X	Y	Z	Result	X	Y	Z	Result
T06 N	T1	8	-1	-27	28	-14	50	-9	52
T06 F	T1	8	-1	-27	28	-15	47	-9	51
T07 N	T1	8	-1	-27	28	-15	-27	-7	32
T07 F	T1	8	-1	-27	28	-15	-29	-7	33
T08 N	T1	8	-1	-27	28	-13	-15	-7	21
T08 F	T1	8	-1	-27	28	-10	-14	-6	19
T09 N	T1	8	-1	-27	28	13	-14	1	19
T09 F	T1	8	-1	-27	28	16	-10	1	19
T10 N	T1	8	-1	-27	28	16	-4	1	16
T10 F	T1	8	-1	-27	28	16	0	1	16
T11 N	T1	8	-1	-27	28	19	30	1	36
T11 F	T1	8	-1	-27	28	19	28	1	34
T12	T1	8	-1	-27	28	19	6	2	20
T13 N	T1	8	-1	-27	28	19	6	2	20
T13 F	T1	8	-1	-27	28	19	4	2	20
T14	T1	8	-1	-27	28	19	4	2	20
T15 N	T1	8	-1	-27	28	15	-3	1	15
T15 F	T1	8	-1	-27	28	13	-4	1	14
T16 N	T1	8	-1	-27	28	15	8	1	17
T16 F	T1	8	-1	-27	28	15	9	1	17
T17	T1	8	-1	-27	28	15	9	1	17
T18 -	T1	8	-1	-27	28	15	9	1	17
T18 +	T1	8	-1	45	46	15	9	1	17
T19	T1	8	-1	45	46	15	3	0	15
T20 N	T1	8	-1	45	46	15	3	0	15
T20 F	T1	8	-1	45	46	15	0	0	15

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G L O B A L F O R C E S & M O M E N T S

Point name	Load combination	FORCES (N)				MOMENTS (Nm)			
		X	Y	Z	Result	X	Y	Z	Result
T21 N	T1	8	-1	45	46	16	5	0	16
T21 F	T1	8	-1	45	46	16	1	0	16
T22 N	T1	8	-1	45	46	16	-62	-1	64
T22 F	T1	8	-1	45	46	10	-67	0	68
T23	T1	8	-1	45	46	10	-67	0	68
T24 N	T1	8	-1	45	46	-17	-67	5	69
T24 F	T1	8	-1	45	46	-22	-66	6	70
T25	T1	8	-1	45	46	-17	-19	6	26
T26 N	T1	8	-1	45	46	-14	8	6	17
T26 F	T1	8	-1	45	46	-10	12	5	17
T27 N	T1	8	-1	45	46	73	95	-8	120
T27 F	T1	8	-1	45	46	76	99	-8	126
F01	T1	8	-1	45	46	77	105	-8	130
*** Segment T end *** Line #									
*** Segment U begin *** Line #									
U03	T1	1833	-409	-2668	3263	-218	2798	-462	2844
U00	T1	1833	-409	-2668	3263	-218	3064	-503	3113
U01 N	T1	1833	-409	-2668	3263	-218	3065	-503	3113
U01 F	T1	1833	-409	-2668	3263	595	3878	-69	3924
R00	T1	1833	-409	-2668	3263	2663	3878	1351	4895
*** Segment U end *** Line #									
*** Segment V begin *** Line #									
V00	T1	1861	-437	-2628	3250	-225	-3312	486	3355
V01	T1	1861	-437	-2628	3250	-225	-1430	173	1458
V02 -	T1	1861	-437	-2628	3250	-225	-1154	127	1183
V02 +	T1	1833	-409	-2668	3263	-218	-1212	153	1241

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G L O B A L F O R C E S & M O M E N T S

Point name	Load combination	FORCES (N)				MOMENTS (Nm)			
		X	Y	Z	Result	X	Y	Z	Result
V03	T1	1833	-409	-2668	3263	-218	-932	110	963
V04 -	T1	1833	-409	-2668	3263	-218	-33	-28	223
V04 +	T1	1833	-409	-2668	3263	-218	-33	-28	223
V05	T1	1833	-409	-2668	3263	-218	175	-60	286
V06	T1	1833	-409	-2668	3263	-218	394	-94	460
V07 -	T1	1833	-409	-2668	3263	-218	602	-126	653
V07 +	T1	1833	-409	-2668	3263	-218	602	-126	653
V08	T1	1833	-409	-2668	3263	-218	1269	-228	1308
V09 -	T1	1833	-409	-2668	3263	-218	1696	-293	1735
V09 +	T1	1833	-409	-2668	3263	-218	1696	-293	1735
U03	T1	1833	-409	-2668	3263	-218	2798	-462	2844
*** Segment V end *** Line #									
*** Segment W begin *** Line #									
V02	T1	28	-27	40	56	-7	58	-26	64
W01	T1	28	-27	40	56	-9	55	-26	62
W02 N	T1	28	-27	40	56	-18	47	-26	56
W02 F	T1	28	-27	40	56	-17	44	-28	55
W03 N	T1	28	-27	40	56	-6	42	-37	56
W03 F	T1	28	-27	40	56	-2	46	-37	59
W04 N	T1	28	-27	40	56	-2	73	-19	75
W04 F	T1	28	-27	40	56	1	81	-15	82
W05 N	T1	28	-27	40	56	28	108	-15	112
W05 F	T1	28	-27	40	56	27	111	-12	115
W06 N	T1	28	-27	40	56	-2	111	7	111
W06 F	T1	28	-27	40	56	-6	106	7	107
W07 N	T1	28	-27	40	56	-6	79	-11	80

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G L O B A L F O R C E S & M O M E N T S

Point name	Load combination	FORCES (N)				MOMENTS (Nm)			
		X	Y	Z	Result	X	Y	Z	Result
W07 F	T1	28	-27	40	56	-11	75	-11	76
W08 -	T1	28	-27	40	56	-15	75	-8	77
W08 +	T1	34	-27	40	59	-15	75	-8	77
W09	T1	34	-27	40	59	-17	75	-6	77
*** Segment W end *** Line #									
*** Segment X begin *** Line #									
X00	T1	0	0	0	0	0	0	0	0
X01	T1	0	0	0	0	0	0	0	0
*** Segment X end *** Line #									
*** Segment Y begin *** Line #									
Y00	T1	955	684	-2419	2689	216	-3280	-949	3421
X01 -	T1	955	684	-2419	2689	216	-2808	-816	2932
X01 +	T1	955	684	-2419	2689	216	-2808	-816	2932
Y02	T1	955	684	-2419	2689	216	-1548	-459	1629
Y03 -	T1	955	684	-2419	2689	216	-1294	-387	1368
Y03 +	T1	918	722	-2469	2732	244	-1347	-388	1423
Y04	T1	918	722	-2469	2732	244	-1088	-313	1158
Y05 -	T1	918	722	-2469	2732	244	-255	-69	360
Y05 +	T1	918	722	-2469	2732	244	-255	-69	360
Y06	T1	918	722	-2469	2732	244	-63	-13	252
Y07	T1	918	722	-2469	2732	244	135	45	282
Y08 -	T1	918	722	-2469	2732	244	332	103	425
Y08 +	T1	918	722	-2469	2732	244	332	103	425
Y09	T1	918	722	-2469	2732	244	950	283	1021
Y10 -	T1	918	722	-2469	2732	244	1345	399	1424
Y10 +	T1	918	722	-2469	2732	244	1345	399	1424

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G L O B A L F O R C E S & M O M E N T S

Point name	Load combination	FORCES (N)				MOMENTS (Nm)			
		X	Y	Z	Result	X	Y	Z	Result
R08	T1	918	722	-2469	2732	244	2611	769	2733

*** Segment Y end *** Line #

*** Segment Z begin *** Line #

Y03	T1	37	-38	51	73	-28	53	1	60
Z01	T1	37	-38	51	73	-32	49	1	59
Z02 N	T1	37	-38	51	73	-43	38	1	57
Z02 F	T1	37	-38	51	73	-43	34	-2	54
Z03 N	T1	37	-38	51	73	-29	32	-14	45
Z03 F	T1	37	-38	51	73	-24	37	-14	46
Z04 N	T1	37	-38	51	73	-24	71	11	75
Z04 F	T1	37	-38	51	73	-19	81	15	84
Z05 N	T1	37	-38	51	73	18	117	15	119
Z05 F	T1	37	-38	51	73	16	121	20	124
Z06 N	T1	37	-38	51	73	-20	121	46	131
Z06 F	T1	37	-38	51	73	-26	115	46	127
Z07 N	T1	37	-38	51	73	-26	81	21	88
Z07 F	T1	37	-38	51	73	-32	75	21	85
Z08 -	T1	37	-38	51	73	-37	75	25	88
Z08 +	T1	-105	-38	51	122	-37	75	25	88
Z09	T1	-105	-38	51	122	-39	75	20	87

*** Segment Z end *** Line #

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ASME B31.3b (2001) CODE COMPLIANCE									
			(Moments in Nm)			(Stress in N/mm2)			
Point	Load	In-Pl.	Out-Pl.	Torsion	S.I.F	Eq. Load	Code	Code	
name	combination	Moment	Moment	Moment	In Out	no. type	Stress	Allow.	
*** Segment A begin *** Line # 79319822									
A00	Max P					(3a) HOOP	0	71	
	Max P	0	0		1.00 1.00	(18) SUST	0	71	
	Cold to T1	117	5	100	1.00 1.00	(17) DISP	0	147	
A01	Max P					(3a) HOOP	0	71	
	Max P	0	0		1.00 1.00	(18) SUST	0	71	
	Cold to T1	158	10	100	1.00 1.00	(17) DISP	1	147	
A02 N-	Max P					(3a) HOOP	0	71	
	Max P	0	0		1.00 1.00	(18) SUST	0	71	
	Cold to T1	158	10	100	1.00 1.00	(17) DISP	1	147	
A02 N+	Max P					(3a) HOOP	0	71	
	Max P	0	0		4.68 3.90	(18) SUST	0	71	
	Cold to T1	158	10	100	4.68 3.90	(17) DISP	3	147	
A02 F-	Max P					(3a) HOOP	0	71	
	Max P	0	0		4.68 3.90	(18) SUST	0	71	
	Cold to T1	201	94	15	4.68 3.90	(17) DISP	5	147	
A02 F+	Max P					(3a) HOOP	0	71	
	Max P	0	0		1.00 1.00	(18) SUST	0	71	
	Cold to T1	222	1	15	1.00 1.00	(17) DISP	1	147	
A03 N-	Max P					(3a) HOOP	0	71	
	Max P	0	0		1.00 1.00	(18) SUST	0	71	
	Cold to T1	208	11	15	1.00 1.00	(17) DISP	1	147	
A03 N+	Max P					(3a) HOOP	0	71	
	Max P	0	0		4.68 3.90	(18) SUST	0	71	
	Cold to T1	192	81	15	4.68 3.90	(17) DISP	4	147	
A03 F-	Max P					(3a) HOOP	0	71	
	Max P	0	0		4.68 3.90	(18) SUST	0	71	
	Cold to T1	145	6	84	4.68 3.90	(17) DISP	3	147	
A03 F+	Max P					(3a) HOOP	0	71	
	Max P	0	0		1.00 1.00	(18) SUST	0	71	
	Cold to T1	145	6	84	1.00 1.00	(17) DISP	1	147	
A04 N-	Max P					(3a) HOOP	0	71	
	Max P	0	0		1.00 1.00	(18) SUST	0	71	
	Cold to T1	5	0	84	1.00 1.00	(17) DISP	0	147	
A04 N+	Max P					(3a) HOOP	0	71	
	Max P	0	0		4.68 3.90	(18) SUST	0	71	
	Cold to T1	0	5	84	4.68 3.90	(17) DISP	0	147	

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ASME B31.3b (2001) CODE COMPLIANCE									
			(Moments in Nm)			(Stress in N/mm2)			
Point name	Load combination	In-Pl. Moment	Out-Pl. Moment	Torsion Moment	S.I.F		Eq. Load no.	Load type	Code Stress Allow.
A04 F-	Max P						(3a)	HOOP	0 71
	Max P	0	0		4.68	3.90	(18)	SUST	0 71
	Cold to T1	1	9	83	4.68	3.90	(17)	DISP	0 147
A04 F+	Max P						(3a)	HOOP	0 71
	Max P	0	0		1.00	1.00	(18)	SUST	0 71
	Cold to T1	9	1	83	1.00	1.00	(17)	DISP	0 147
A05 N-	Max P						(3a)	HOOP	0 71
	Max P	0	0		1.00	1.00	(18)	SUST	0 71
	Cold to T1	76	8	83	1.00	1.00	(17)	DISP	1 147
A05 N+	Max P						(3a)	HOOP	0 71
	Max P	0	0		4.68	3.90	(18)	SUST	0 71
	Cold to T1	10	76	83	4.68	3.90	(17)	DISP	1 147
A05 F-	Max P						(3a)	HOOP	0 71
	Max P	0	0		4.68	3.90	(18)	SUST	0 71
	Cold to T1	13	40	120	4.68	3.90	(17)	DISP	1 147
A05 F+	Max P						(3a)	HOOP	0 71
	Max P	0	0		1.00	1.00	(18)	SUST	0 71
	Cold to T1	40	14	120	1.00	1.00	(17)	DISP	1 147
A06 N-	Max P						(3a)	HOOP	0 71
	Max P	0	0		1.00	1.00	(18)	SUST	0 71
	Cold to T1	58	16	120	1.00	1.00	(17)	DISP	1 147
A06 N+	Max P						(3a)	HOOP	0 71
	Max P	0	0		4.68	3.90	(18)	SUST	0 71
	Cold to T1	58	16	120	4.68	3.90	(17)	DISP	1 147
A06 F-	Max P						(3a)	HOOP	0 71
	Max P	0	0		4.68	3.90	(18)	SUST	0 71
	Cold to T1	100	126	11	4.68	3.90	(17)	DISP	3 147
A06 F+	Max P						(3a)	HOOP	0 71
	Max P	0	0		1.00	1.00	(18)	SUST	0 71
	Cold to T1	154	46	11	1.00	1.00	(17)	DISP	1 147
A07 N-	Max P						(3a)	HOOP	0 71
	Max P	0	0		1.00	1.00	(18)	SUST	0 71
	Cold to T1	186	71	11	1.00	1.00	(17)	DISP	1 147
A07 N+	Max P						(3a)	HOOP	0 71
	Max P	0	0		4.68	3.90	(18)	SUST	0 71
	Cold to T1	125	154	11	4.68	3.90	(17)	DISP	4 147
A07 F-	Max P						(3a)	HOOP	0 71
	Max P	0	0		4.68	3.90	(18)	SUST	0 71
	Cold to T1	86	8	160	4.68	3.90	(17)	DISP	2 147

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ASME B31.3b (2001) CODE COMPLIANCE									
		(Moments in Nm)					(Stress in N/mm2)		
Point name	Load combination	In-Pl. Moment	Out-Pl. Moment	Torsion Moment	S.I.F In	S.I.F Out	Eq. Load no.	Load type	Code Stress Allow.
A07 F+	Max P						(3a)	HOOP	0 71
	Max P	0	0		1.00	1.00	(18)	SUST	0 71
	Cold to T1	86	8	160	1.00	1.00	(17)	DISP	1 147
A08 N-	Max P						(3a)	HOOP	0 71
	Max P	0	0		1.00	1.00	(18)	SUST	0 71
	Cold to T1	68	10	160	1.00	1.00	(17)	DISP	1 147
A08 N+	Max P						(3a)	HOOP	0 71
	Max P	0	0		4.68	3.90	(18)	SUST	0 71
	Cold to T1	9	68	160	4.68	3.90	(17)	DISP	1 147
A08 F-	Max P						(3a)	HOOP	0 71
	Max P	0	0		4.68	3.90	(18)	SUST	0 71
	Cold to T1	11	116	111	4.68	3.90	(17)	DISP	2 147
A08 F+	Max P						(3a)	HOOP	0 71
	Max P	0	0		1.00	1.00	(18)	SUST	0 71
	Cold to T1	116	8	111	1.00	1.00	(17)	DISP	1 147
A09 N-	Max P						(3a)	HOOP	0 71
	Max P	0	0		1.00	1.00	(18)	SUST	0 71
	Cold to T1	12	17	111	1.00	1.00	(17)	DISP	1 147
A09 N+	Max P						(3a)	HOOP	0 71
	Max P	0	0		4.68	3.90	(18)	SUST	0 71
	Cold to T1	16	13	111	4.68	3.90	(17)	DISP	1 147
A09 F-	Max P						(3a)	HOOP	0 71
	Max P	0	0		4.68	3.90	(18)	SUST	0 71
	Cold to T1	18	56	82	4.68	3.90	(17)	DISP	1 147
A09 F+	Max P						(3a)	HOOP	0 71
	Max P	0	0		1.00	1.00	(18)	SUST	0 71
	Cold to T1	57	16	82	1.00	1.00	(17)	DISP	0 147
A10 N-	Max P						(3a)	HOOP	0 71
	Max P	0	0		1.00	1.00	(18)	SUST	0 71
	Cold to T1	31	14	82	1.00	1.00	(17)	DISP	0 147
A10 N+	Max P						(3a)	HOOP	0 71
	Max P	0	0		4.68	3.90	(18)	SUST	0 71
	Cold to T1	16	30	82	4.68	3.90	(17)	DISP	1 147
A10 F-	Max P						(3a)	HOOP	0 71
	Max P	0	0		4.68	3.90	(18)	SUST	0 71
	Cold to T1	13	5	92	4.68	3.90	(17)	DISP	1 147
A10 F+	Max P						(3a)	HOOP	0 71
	Max P	0	0		1.00	1.00	(18)	SUST	0 71
	Cold to T1	6	13	92	1.00	1.00	(17)	DISP	0 147

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ASME B31.3b (2001) CODE COMPLIANCE									
		(Moments in Nm)			(Stress in N/mm2)				
Point	Load	In-Pl.	Out-Pl.	Torsion	S.I.F		Eq. Load	Code	Code
name	combination	Moment	Moment	Moment	In	Out	no. type	Stress	Allow.
A11 N-	Max P						(3a) HOOP	0	71
	Max P	0	0		1.00	1.00	(18) SUST	0	71
	Cold to T1	101	2	92	1.00	1.00	(17) DISP	1	147
A11 N+	Max P						(3a) HOOP	0	71
	Max P	0	0		4.68	3.90	(18) SUST	0	71
	Cold to T1	101	2	92	4.68	3.90	(17) DISP	2	147
A11 F-	Max P						(3a) HOOP	0	71
	Max P	0	0		4.68	3.90	(18) SUST	0	71
	Cold to T1	138	88	10	4.68	3.90	(17) DISP	3	147
A11 F+	Max P						(3a) HOOP	0	71
	Max P	0	0		1.00	1.00	(18) SUST	0	71
	Cold to T1	88	138	10	1.00	1.00	(17) DISP	1	147
A12	Max P						(3a) HOOP	0	71
	Max P	0	0		1.00	1.00	(18) SUST	0	71
	Cold to T1	17	81	10	1.00	1.00	(17) DISP	0	147
A13	Max P						(3a) HOOP	0	71
	Max P	0	0		1.00	1.00	(18) SUST	0	71
	Cold to T1	54	23	10	1.00	1.00	(17) DISP	0	147
A14	Max P						(3a) HOOP	0	71
	Max P	0	0		1.00	1.00	(18) SUST	0	71
	Cold to T1	125	34	10	1.00	1.00	(17) DISP	1	147
A15	Max P						(3a) HOOP	0	71
	Max P	0	0		1.00	1.00	(18) SUST	0	71
	Cold to T1	166	68	10	1.00	1.00	(17) DISP	1	147
A16	Max P						(3a) HOOP	0	71
	Max P	0	0		1.00	1.00	(18) SUST	0	71
	Cold to T1	196	92	10	1.00	1.00	(17) DISP	1	147
A17 -	Max P						(3a) HOOP	0	71
	Max P	0	0		3.56	4.41	(18) SUST	0	71
	Cold to T1	254	139	10	3.56	4.41	(17) DISP	5	147
A17 +	Max P						(3a) HOOP	0	71
	Max P	0	0		3.56	4.41	(18) SUST	0	71
	Cold to T1	234	114	22	3.56	4.41	(17) DISP	4	147
A18 -	Max P						(3a) HOOP	0	71
	Max P	0	0		1.00	1.00	(18) SUST	0	71
	Cold to T1	238	123	22	1.00	1.00	(17) DISP	1	147
A18 +	Max P						(3a) HOOP	0	71
	Max P	0	0		1.00	1.00	(18) SUST	0	71
	Cold to T1	238	123	22	1.00	1.00	(17) DISP	1	147

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ASME B31.3b (2001) CODE COMPLIANCE									
Point name	Load combination	(Moments in Nm)			(Stress in N/mm2)				
		In-Pl. Moment	Out-Pl. Moment	Torsion Moment	S.I.F In Out		Eq. Load no. type	Code Stress	Code Allow.
A19	Max P						(3a) HOOP	0	71
	Max P	0	0		1.00	1.00	(18) SUST	0	71
	Cold to T1	238	125	22	1.00	1.00	(17) DISP	1	147
A20	Max P						(3a) HOOP	0	71
	Max P	0	0		1.00	1.00	(18) SUST	0	71
	Cold to T1	260	175	22	1.00	1.00	(17) DISP	2	147
A21	Max P						(3a) HOOP	0	71
	Max P	0	0		1.00	1.00	(18) SUST	0	71
	Cold to T1	282	225	22	1.00	1.00	(17) DISP	2	147
A22 N-	Max P						(3a) HOOP	0	71
	Max P	0	0		1.00	1.00	(18) SUST	0	71
	Cold to T1	291	247	22	1.00	1.00	(17) DISP	2	147
A22 N+	Max P						(3a) HOOP	0	71
	Max P	0	0		2.90	2.42	(18) SUST	0	71
	Cold to T1	380	31	22	2.90	2.42	(17) DISP	5	147
A22 F-	Max P						(3a) HOOP	0	71
	Max P	0	0		2.90	2.42	(18) SUST	0	71
	Cold to T1	376	37	6	2.90	2.42	(17) DISP	5	147
A22 F+	Max P						(3a) HOOP	0	71
	Max P	0	0		1.00	1.00	(18) SUST	0	71
	Cold to T1	376	37	6	1.00	1.00	(17) DISP	2	147
A23 N-	Max P						(3a) HOOP	0	71
	Max P	0	0		1.00	1.00	(18) SUST	0	71
	Cold to T1	281	30	6	1.00	1.00	(17) DISP	1	147
A23 N+	Max P						(3a) HOOP	0	71
	Max P	0	0		2.90	2.42	(18) SUST	0	71
	Cold to T1	186	212	6	2.90	2.42	(17) DISP	3	147
A23 F-	Max P						(3a) HOOP	0	71
	Max P	0	0		2.90	2.42	(18) SUST	0	71
	Cold to T1	170	102	175	2.90	2.42	(17) DISP	3	147
A23 F+	Max P						(3a) HOOP	0	71
	Max P	0	0		1.00	1.00	(18) SUST	0	71
	Cold to T1	198	15	175	1.00	1.00	(17) DISP	1	147
A24 N-	Max P						(3a) HOOP	0	71
	Max P	0	0		1.00	1.00	(18) SUST	0	71
	Cold to T1	154	10	175	1.00	1.00	(17) DISP	1	147
A24 N+	Max P						(3a) HOOP	0	71
	Max P	0	0		2.90	2.42	(18) SUST	0	71
	Cold to T1	154	10	175	2.90	2.42	(17) DISP	2	147

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ASME B31.3b (2001) CODE COMPLIANCE									
		(Moments in Nm)			(Stress in N/mm2)				
Point	Load	In-Pl.	Out-Pl.	Torsion	S.I.F		Eq. Load	Code	Code
name	combination	Moment	Moment	Moment	In	Out	no. type	Stress	Allow.
A24 F-	Max P						(3a) HOOP	0	71
	Max P	0	0		2.90	2.42	(18) SUST	0	71
	Cold to T1	139	119	130	2.90	2.42	(17) DISP	2	147
A24 F+	Max P						(3a) HOOP	0	71
	Max P	0	0		1.00	1.00	(18) SUST	0	71
	Cold to T1	139	119	130	1.00	1.00	(17) DISP	1	147
A25 N-	Max P						(3a) HOOP	0	71
	Max P	0	0		1.00	1.00	(18) SUST	0	71
	Cold to T1	117	123	130	1.00	1.00	(17) DISP	1	147
A25 N+	Max P						(3a) HOOP	0	71
	Max P	0	0		2.90	2.42	(18) SUST	0	71
	Cold to T1	117	123	130	2.90	2.42	(17) DISP	2	147
A25 F-	Max P						(3a) HOOP	0	71
	Max P	0	0		2.90	2.42	(18) SUST	0	71
	Cold to T1	102	3	180	2.90	2.42	(17) DISP	2	147
A25 F+	Max P						(3a) HOOP	0	71
	Max P	0	0		1.00	1.00	(18) SUST	0	71
	Cold to T1	102	3	180	1.00	1.00	(17) DISP	1	147
A26 N-	Max P						(3a) HOOP	0	71
	Max P	0	0		1.00	1.00	(18) SUST	0	71
	Cold to T1	69	1	180	1.00	1.00	(17) DISP	1	147
A26 N+	Max P						(3a) HOOP	0	71
	Max P	0	0		2.90	2.42	(18) SUST	0	71
	Cold to T1	1	69	180	2.90	2.42	(17) DISP	1	147
A26 F-	Max P						(3a) HOOP	0	71
	Max P	0	0		2.90	2.42	(18) SUST	0	71
	Cold to T1	4	201	47	2.90	2.42	(17) DISP	2	147
A26 F+	Max P						(3a) HOOP	0	71
	Max P	0	0		1.00	1.00	(18) SUST	0	71
	Cold to T1	201	4	47	1.00	1.00	(17) DISP	1	147
A27 N-	Max P						(3a) HOOP	0	71
	Max P	0	0		1.00	1.00	(18) SUST	0	71
	Cold to T1	221	5	47	1.00	1.00	(17) DISP	1	147
A27 N+	Max P						(3a) HOOP	0	71
	Max P	0	0		2.90	2.42	(18) SUST	0	71
	Cold to T1	221	5	47	2.90	2.42	(17) DISP	3	147
A27 F-	Max P						(3a) HOOP	0	71
	Max P	0	0		2.90	2.42	(18) SUST	0	71
	Cold to T1	244	48	6	2.90	2.42	(17) DISP	3	147

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ASME B31.3b (2001) CODE COMPLIANCE									
		(Moments in Nm)			(Stress in N/mm2)				
Point name	Load combination	In-Pl. Moment	Out-Pl. Moment	Torsion Moment	S.I.F In	S.I.F Out	Eq. Load no. type	Code Stress	Code Allow.
A27 F+	Max P						(3a) HOOP	0	71
	Max P	0	0		1.00	1.00	(18) SUST	0	71
	Cold to T1	244	48	6	1.00	1.00	(17) DISP	1	147
A28	Max P						(3a) HOOP	0	71
	Max P	0	0		1.00	1.00	(18) SUST	0	71
	Cold to T1	244	48	6	1.00	1.00	(17) DISP	1	147
A29	Max P						(3a) HOOP	0	71
	Max P	0	0		1.00	1.00	(18) SUST	0	71
	Cold to T1	248	49	6	1.00	1.00	(17) DISP	2	147
A31	Max P						(3a) HOOP	0	71
	Max P	0	0		1.00	1.00	(18) SUST	0	71
	Cold to T1	201	7	49	1.00	1.00	(17) DISP	2	147
A32 N-	Max P						(3a) HOOP	0	71
	Max P	0	0		1.00	1.00	(18) SUST	0	71
	Cold to T1	129	12	49	1.00	1.00	(17) DISP	1	147
A32 N+	Max P						(3a) HOOP	0	71
	Max P	0	0		2.56	2.14	(18) SUST	0	71
	Cold to T1	129	12	49	2.56	2.14	(17) DISP	3	147
A32 F-	Max P						(3a) HOOP	0	71
	Max P	0	0		2.56	2.14	(18) SUST	0	71
	Cold to T1	169	52	1	2.56	2.14	(17) DISP	4	147
A32 F+	Max P						(3a) HOOP	0	71
	Max P	0	0		1.00	1.00	(18) SUST	0	71
	Cold to T1	52	169	1	1.00	1.00	(17) DISP	1	147
A33 N-	Max P						(3a) HOOP	0	71
	Max P	0	0		1.00	1.00	(18) SUST	0	71
	Cold to T1	55	160	1	1.00	1.00	(17) DISP	1	147
A33 N+	Max P						(3a) HOOP	0	71
	Max P	0	0		2.56	2.14	(18) SUST	0	71
	Cold to T1	55	160	1	2.56	2.14	(17) DISP	3	147
A33 F-	Max P						(3a) HOOP	0	71
	Max P	0	0		2.56	2.14	(18) SUST	0	71
	Cold to T1	1	2	158	2.56	2.14	(17) DISP	1	147
A33 F+	Max P						(3a) HOOP	0	71
	Max P	0	0		1.00	1.00	(18) SUST	0	71
	Cold to T1	1	2	158	1.00	1.00	(17) DISP	1	147
A34	Max P						(3a) HOOP	0	71
	Max P	0	0		1.00	1.00	(18) SUST	0	71
	Cold to T1	359	15	158	1.00	1.00	(17) DISP	3	147

*** Segment A end *** Line # 79319822

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ASME B31.3b (2001) CODE COMPLIANCE									
			(Moments in Nm)			(Stress in N/mm2)			
Point	Load	In-Pl.	Out-Pl.	Torsion	S.I.F		Eq. Load	Code	Code
name	combination	Moment	Moment	Moment	In	Out	no. type	Stress	Allow.
*** Segment B begin *** Line # 79319822									
A17	Max P						(3a) HOOP	0	71
	Max P	0	0		3.56	4.41	(18) SUST	0	71
	Cold to T1	20	12	25	3.56	4.41	(17) DISP	9	147
B01	Max P						(3a) HOOP	0	71
	Max P	0	0		1.00	1.00	(18) SUST	0	71
	Cold to T1	9	13	25	1.00	1.00	(17) DISP	3	147
*** Segment B end *** Line # 79319822									
*** Segment C begin *** Line # 79319822									
C00	Max P						(3a) HOOP	0	71
	Max P	0	0		1.00	1.00	(18) SUST	0	71
	Cold to T1	193	242	789	1.00	1.00	(17) DISP	6	147
C01 N-	Max P						(3a) HOOP	0	71
	Max P	0	0		1.00	1.00	(18) SUST	0	71
	Cold to T1	258	241	789	1.00	1.00	(17) DISP	6	147
C01 N+	Max P						(3a) HOOP	0	71
	Max P	0	0		2.27	1.89	(18) SUST	0	71
	Cold to T1	241	258	789	2.27	1.89	(17) DISP	8	147
C01 F-	Max P						(3a) HOOP	0	71
	Max P	0	0		2.27	1.89	(18) SUST	0	71
	Cold to T1	224	734	312	2.27	1.89	(17) DISP	11	147
C01 F+	Max P						(3a) HOOP	0	71
	Max P	0	0		1.00	1.00	(18) SUST	0	71
	Cold to T1	767	26	312	1.00	1.00	(17) DISP	6	147
C02 N-	Max P						(3a) HOOP	0	71
	Max P	0	0		1.00	1.00	(18) SUST	0	71
	Cold to T1	621	21	312	1.00	1.00	(17) DISP	5	147
C02 N+	Max P						(3a) HOOP	0	71
	Max P	0	0		2.27	1.89	(18) SUST	0	71
	Cold to T1	21	621	312	2.27	1.89	(17) DISP	9	147
C02 F-	Max P						(3a) HOOP	0	71
	Max P	0	0		2.27	1.89	(18) SUST	0	71
	Cold to T1	20	255	564	2.27	1.89	(17) DISP	5	147
C02 F+	Max P						(3a) HOOP	0	71
	Max P	0	0		1.00	1.00	(18) SUST	0	71
	Cold to T1	255	20	564	1.00	1.00	(17) DISP	4	147

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ASME B31.3b (2001) CODE COMPLIANCE									
			(Moments in Nm)			(Stress in N/mm2)			
Point name	Load combination	In-Pl. Moment	Out-Pl. Moment	Torsion Moment	S.I.F In	S.I.F Out	Eq. Load no.	Load type	Code Stress Allow.
C03 N-	Max P						(3a)	HOOP	0 71
	Max P	0	0		1.00	1.00	(18)	SUST	0 71
	Cold to T1	215	21	564	1.00	1.00	(17)	DISP	4 147
C03 N+	Max P						(3a)	HOOP	0 71
	Max P	0	0		2.27	1.89	(18)	SUST	0 71
	Cold to T1	21	215	564	2.27	1.89	(17)	DISP	5 147
C03 F-	Max P						(3a)	HOOP	0 71
	Max P	0	0		2.27	1.89	(18)	SUST	0 71
	Cold to T1	20	507	158	2.27	1.89	(17)	DISP	7 147
C03 F+	Max P						(3a)	HOOP	0 71
	Max P	0	0		1.00	1.00	(18)	SUST	0 71
	Cold to T1	507	20	158	1.00	1.00	(17)	DISP	4 147
A34	Max P						(3a)	HOOP	0 71
	Max P	0	0		1.00	1.00	(18)	SUST	0 71
	Cold to T1	359	15	158	1.00	1.00	(17)	DISP	3 147
*** Segment C end *** Line # 79319822									
*** Segment D begin *** Line #									
D00	Max P						(3a)	HOOP	0 71
	Max P	0	0		1.00	1.00	(18)	SUST	0 71
	Cold to T1	86	52	4	1.00	1.00	(17)	DISP	11 147
D01 N-	Max P						(3a)	HOOP	0 71
	Max P	0	0		1.00	1.00	(18)	SUST	0 71
	Cold to T1	80	53	4	1.00	1.00	(17)	DISP	11 147
D01 N+	Max P						(3a)	HOOP	0 71
	Max P	0	0		1.27	1.06	(18)	SUST	0 71
	Cold to T1	94	19	4	1.27	1.06	(17)	DISP	13 147
D01 F-	Max P						(3a)	HOOP	0 71
	Max P	0	0		1.27	1.06	(18)	SUST	0 71
	Cold to T1	89	5	18	1.27	1.06	(17)	DISP	13 147
D01 F+	Max P						(3a)	HOOP	0 71
	Max P	0	0		1.00	1.00	(18)	SUST	0 71
	Cold to T1	89	5	18	1.00	1.00	(17)	DISP	10 147
D02 N-	Max P						(3a)	HOOP	0 71
	Max P	0	0		1.00	1.00	(18)	SUST	0 71
	Cold to T1	0	10	18	1.00	1.00	(17)	DISP	2 147
D02 N+	Max P						(3a)	HOOP	0 71
	Max P	0	0		1.27	1.06	(18)	SUST	0 71
	Cold to T1	0	10	18	1.27	1.06	(17)	DISP	2 147

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ASME B31.3b (2001) CODE COMPLIANCE										
		(Moments in Nm)					(Stress in N/mm2)			
Point name	Load combination	In-Pl. Moment	Out-Pl. Moment	Torsion Moment	S.I.F		Eq. no.	Load type	Code Stress	Code Allow.
D02 F-	Max P						(3a)	HOOP	0	71
	Max P	0	0		1.27	1.06	(18)	SUST	0	71
	Cold to T1	5	16	12	1.27	1.06	(17)	DISP	2	147
D02 F+	Max P						(3a)	HOOP	0	71
	Max P	0	0		1.00	1.00	(18)	SUST	0	71
	Cold to T1	7	15	12	1.00	1.00	(17)	DISP	2	147
D03 N-	Max P						(3a)	HOOP	0	71
	Max P	0	0		1.00	1.00	(18)	SUST	0	71
	Cold to T1	68	4	12	1.00	1.00	(17)	DISP	8	147
D03 N+	Max P						(3a)	HOOP	0	71
	Max P	0	0		1.27	1.06	(18)	SUST	0	71
	Cold to T1	4	68	12	1.27	1.06	(17)	DISP	8	147
D03 F-	Max P						(3a)	HOOP	0	71
	Max P	0	0		1.27	1.06	(18)	SUST	0	71
	Cold to T1	1	5	69	1.27	1.06	(17)	DISP	8	147
D03 F+	Max P						(3a)	HOOP	0	71
	Max P	0	0		1.00	1.00	(18)	SUST	0	71
	Cold to T1	1	5	69	1.00	1.00	(17)	DISP	8	147
D04 N-	Max P						(3a)	HOOP	0	71
	Max P	0	0		1.00	1.00	(18)	SUST	0	71
	Cold to T1	42	3	69	1.00	1.00	(17)	DISP	9	147
D04 N+	Max P						(3a)	HOOP	0	71
	Max P	0	0		1.27	1.06	(18)	SUST	0	71
	Cold to T1	7	41	69	1.27	1.06	(17)	DISP	9	147
D04 F-	Max P						(3a)	HOOP	0	71
	Max P	0	0		1.27	1.06	(18)	SUST	0	71
	Cold to T1	8	65	46	1.27	1.06	(17)	DISP	9	147
D04 F+	Max P						(3a)	HOOP	0	71
	Max P	0	0		1.00	1.00	(18)	SUST	0	71
	Cold to T1	65	2	46	1.00	1.00	(17)	DISP	9	147
D05 N-	Max P						(3a)	HOOP	0	71
	Max P	0	0		1.00	1.00	(18)	SUST	0	71
	Cold to T1	11	4	46	1.00	1.00	(17)	DISP	5	147
D05 N+	Max P						(3a)	HOOP	0	71
	Max P	0	0		1.27	1.06	(18)	SUST	0	71
	Cold to T1	11	4	46	1.27	1.06	(17)	DISP	5	147
D05 F-	Max P						(3a)	HOOP	0	71
	Max P	0	0		1.27	1.06	(18)	SUST	0	71
	Cold to T1	7	46	0	1.27	1.06	(17)	DISP	5	147

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ASME B31.3b (2001) CODE COMPLIANCE									
		(Moments in Nm)			(Stress in N/mm2)				
Point name	Load combination	In-Pl. Moment	Out-Pl. Moment	Torsion Moment	S.I.F In Out		Eq. Load no. type	Code Stress	Code Allow.
D05 F+	Max P						(3a) HOOP	0	71
	Max P	0	0		1.00	1.00	(18) SUST	0	71
	Cold to T1	7	46	0	1.00	1.00	(17) DISP	5	147
D06 N-	Max P						(3a) HOOP	0	71
	Max P	0	0		1.00	1.00	(18) SUST	0	71
	Cold to T1	14	47	0	1.00	1.00	(17) DISP	5	147
D06 N+	Max P						(3a) HOOP	0	71
	Max P	0	0		1.27	1.06	(18) SUST	0	71
	Cold to T1	14	47	0	1.27	1.06	(17) DISP	6	147
D06 F-	Max P						(3a) HOOP	0	71
	Max P	0	0		1.27	1.06	(18) SUST	0	71
	Cold to T1	11	13	46	1.27	1.06	(17) DISP	5	147
D06 F+	Max P						(3a) HOOP	0	71
	Max P	0	0		1.00	1.00	(18) SUST	0	71
	Cold to T1	11	0	47	1.00	1.00	(17) DISP	5	147
D07	Max P						(3a) HOOP	0	71
	Max P	0	0		1.00	1.00	(18) SUST	0	71
	Cold to T1	11	0	47	1.00	1.00	(17) DISP	5	147
D09	Max P						(3a) HOOP	0	71
	Max P	0	0		1.00	1.00	(18) SUST	0	71
	Cold to T1	7	46	13	1.00	1.00	(17) DISP	5	147
D10 N-	Max P						(3a) HOOP	0	71
	Max P	0	0		1.00	1.00	(18) SUST	0	71
	Cold to T1	7	46	13	1.00	1.00	(17) DISP	5	147
D10 N+	Max P						(3a) HOOP	0	71
	Max P	0	0		1.27	1.06	(18) SUST	0	71
	Cold to T1	7	46	13	1.27	1.06	(17) DISP	6	147
D10 F-	Max P						(3a) HOOP	0	71
	Max P	0	0		1.27	1.06	(18) SUST	0	71
	Cold to T1	7	48	0	1.27	1.06	(17) DISP	6	147
D10 F+	Max P						(3a) HOOP	0	71
	Max P	0	0		1.00	1.00	(18) SUST	0	71
	Cold to T1	7	48	0	1.00	1.00	(17) DISP	5	147
D11 N-	Max P						(3a) HOOP	0	71
	Max P	0	0		1.00	1.00	(18) SUST	0	71
	Cold to T1	16	49	0	1.00	1.00	(17) DISP	6	147
D11 N+	Max P						(3a) HOOP	0	71
	Max P	0	0		1.27	1.06	(18) SUST	0	71
	Cold to T1	16	49	0	1.27	1.06	(17) DISP	6	147

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ASME B31.3b (2001) CODE COMPLIANCE										
		(Moments in Nm)					(Stress in N/mm2)			
Point name	Load combination	In-Pl. Moment	Out-Pl. Moment	Torsion Moment	S.I.F		Eq. no.	Load type	Code Stress	Code Allow.
D11 F-	Max P						(3a)	HOOP	0	71
	Max P	0	0		1.27	1.06	(18)	SUST	0	71
	Cold to T1	12	4	49	1.27	1.06	(17)	DISP	6	147
D11 F+	Max P						(3a)	HOOP	0	71
	Max P	0	0		1.00	1.00	(18)	SUST	0	71
	Cold to T1	12	4	49	1.00	1.00	(17)	DISP	6	147
D12 N-	Max P						(3a)	HOOP	0	71
	Max P	0	0		1.00	1.00	(18)	SUST	0	71
	Cold to T1	36	5	49	1.00	1.00	(17)	DISP	7	147
D12 N+	Max P						(3a)	HOOP	0	71
	Max P	0	0		1.27	1.06	(18)	SUST	0	71
	Cold to T1	8	35	49	1.27	1.06	(17)	DISP	7	147
D12 F-	Max P						(3a)	HOOP	0	71
	Max P	0	0		1.27	1.06	(18)	SUST	0	71
	Cold to T1	8	43	41	1.27	1.06	(17)	DISP	7	147
D12 F+	Max P						(3a)	HOOP	0	71
	Max P	0	0		1.00	1.00	(18)	SUST	0	71
	Cold to T1	44	4	41	1.00	1.00	(17)	DISP	7	147
D13	Max P						(3a)	HOOP	0	71
	Max P	0	0		1.00	1.00	(18)	SUST	0	71
	Cold to T1	44	4	41	1.00	1.00	(17)	DISP	7	147
D14 N-	Max P						(3a)	HOOP	0	71
	Max P	0	0		1.00	1.00	(18)	SUST	0	71
	Cold to T1	28	9	41	1.00	1.00	(17)	DISP	6	147
D14 N+	Max P						(3a)	HOOP	0	71
	Max P	0	0		1.27	1.06	(18)	SUST	0	71
	Cold to T1	28	9	41	1.27	1.06	(17)	DISP	6	147
D14 F-	Max P						(3a)	HOOP	0	71
	Max P	0	0		1.27	1.06	(18)	SUST	0	71
	Cold to T1	33	39	13	1.27	1.06	(17)	DISP	7	147
D14 F+	Max P						(3a)	HOOP	0	71
	Max P	0	0		1.00	1.00	(18)	SUST	0	71
	Cold to T1	39	33	13	1.00	1.00	(17)	DISP	6	147
D15 N-	Max P						(3a)	HOOP	0	71
	Max P	0	0		1.00	1.00	(18)	SUST	0	71
	Cold to T1	39	33	13	1.00	1.00	(17)	DISP	6	147
D15 N+	Max P						(3a)	HOOP	0	71
	Max P	0	0		1.27	1.06	(18)	SUST	0	71
	Cold to T1	33	39	13	1.27	1.06	(17)	DISP	7	147

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ASME B31.3b (2001) CODE COMPLIANCE									
		(Moments in Nm)			(Stress in N/mm2)				
Point name	Load combination	In-Pl. Moment	Out-Pl. Moment	Torsion Moment	S.I.F In	S.I.F Out	Eq. Load no. type	Code Stress	Code Allow.
D15 F-	Max P						(3a) HOOP	0	71
	Max P	0	0		1.27	1.06	(18) SUST	0	71
	Cold to T1	28	16	37	1.27	1.06	(17) DISP	6	147
D15 F+	Max P						(3a) HOOP	0	71
	Max P	0	0		1.00	1.00	(18) SUST	0	71
	Cold to T1	28	16	37	1.00	1.00	(17) DISP	5	147
D16 N-	Max P						(3a) HOOP	0	71
	Max P	0	0		1.00	1.00	(18) SUST	0	71
	Cold to T1	22	15	37	1.00	1.00	(17) DISP	5	147
D16 N+	Max P						(3a) HOOP	0	71
	Max P	0	0		1.27	1.06	(18) SUST	0	71
	Cold to T1	17	21	37	1.27	1.06	(17) DISP	5	147
D16 F-	Max P						(3a) HOOP	0	71
	Max P	0	0		1.27	1.06	(18) SUST	0	71
	Cold to T1	15	42	15	1.27	1.06	(17) DISP	6	147
D16 F+	Max P						(3a) HOOP	0	71
	Max P	0	0		1.00	1.00	(18) SUST	0	71
	Cold to T1	43	12	15	1.00	1.00	(17) DISP	5	147
D17	Max P						(3a) HOOP	0	71
	Max P	0	0		1.00	1.00	(18) SUST	0	71
	Cold to T1	43	12	15	1.00	1.00	(17) DISP	5	147
D18 N-	Max P						(3a) HOOP	0	71
	Max P	0	0		1.00	1.00	(18) SUST	0	71
	Cold to T1	48	12	15	1.00	1.00	(17) DISP	6	147
D18 N+	Max P						(3a) HOOP	0	71
	Max P	0	0		1.27	1.06	(18) SUST	0	71
	Cold to T1	7	49	15	1.27	1.06	(17) DISP	6	147
D18 F-	Max P						(3a) HOOP	0	71
	Max P	0	0		1.27	1.06	(18) SUST	0	71
	Cold to T1	8	21	54	1.27	1.06	(17) DISP	7	147
D18 F+	Max P						(3a) HOOP	0	71
	Max P	0	0		1.00	1.00	(18) SUST	0	71
	Cold to T1	22	6	54	1.00	1.00	(17) DISP	6	147
D19 N-	Max P						(3a) HOOP	0	71
	Max P	0	0		1.00	1.00	(18) SUST	0	71
	Cold to T1	28	7	54	1.00	1.00	(17) DISP	7	147
D19 N+	Max P						(3a) HOOP	0	71
	Max P	0	0		1.27	1.06	(18) SUST	0	71
	Cold to T1	28	7	54	1.27	1.06	(17) DISP	7	147

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ASME B31.3b (2001) CODE COMPLIANCE									
		(Moments in Nm)			(Stress in N/mm2)				
Point name	Load combination	In-Pl. Moment	Out-Pl. Moment	Torsion Moment	S.I.F In	S.I.F Out	Eq. Load no. type	Code Stress	Code Allow.
D19 F-	Max P						(3a) HOOP	0	71
	Max P	0	0		1.27	1.06	(18) SUST	0	71
	Cold to T1	33	52	13	1.27	1.06	(17) DISP	8	147
D19 F+	Max P						(3a) HOOP	0	71
	Max P	0	0		1.00	1.00	(18) SUST	0	71
	Cold to T1	52	33	13	1.00	1.00	(17) DISP	7	147
D20	Max P						(3a) HOOP	0	71
	Max P	0	0		1.00	1.00	(18) SUST	0	71
	Cold to T1	50	32	13	1.00	1.00	(17) DISP	7	147
D21 N-	Max P						(3a) HOOP	0	71
	Max P	0	0		1.00	1.00	(18) SUST	0	71
	Cold to T1	1	25	13	1.00	1.00	(17) DISP	3	147
D21 N+	Max P						(3a) HOOP	0	71
	Max P	0	0		1.27	1.06	(18) SUST	0	71
	Cold to T1	1	25	13	1.27	1.06	(17) DISP	3	147
D21 F-	Max P						(3a) HOOP	0	71
	Max P	0	0		1.27	1.06	(18) SUST	0	71
	Cold to T1	6	13	25	1.27	1.06	(17) DISP	3	147
D21 F+	Max P						(3a) HOOP	0	71
	Max P	0	0		1.00	1.00	(18) SUST	0	71
	Cold to T1	6	13	25	1.00	1.00	(17) DISP	3	147
B01	Max P						(3a) HOOP	0	71
	Max P	0	0		1.00	1.00	(18) SUST	0	71
	Cold to T1	9	13	25	1.00	1.00	(17) DISP	3	147
*** Segment D end *** Line #									
*** Segment E begin *** Line #									
E00	Max P						(3a) HOOP	0	71
	Max P	0	0		1.00	1.00	(18) SUST	0	71
	Cold to T1	148	1560	1247	1.00	1.00	(17) DISP	2	147
E01	Max P						(3a) HOOP	0	71
	Max P	0	0		1.00	1.00	(18) SUST	0	71
	Cold to T1	253	2466	1251	1.00	1.00	(17) DISP	6	147
E02 N-	Max P						(3a) HOOP	0	71
	Max P	0	0		1.00	1.00	(18) SUST	0	71
	Cold to T1	253	2466	1251	1.00	1.00	(17) DISP	6	147
E02 N+	Max P						(3a) HOOP	0	71
	Max P	0	0		5.85	4.87	(18) SUST	0	71
	Cold to T1	275	2466	1247	5.85	4.87	(17) DISP	24	147

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ASME B31.3b (2001) CODE COMPLIANCE									
		(Moments in Nm)			(Stress in N/mm2)				
Point name	Load combination	In-Pl. Moment	Out-Pl. Moment	Torsion Moment	S.I.F In	S.I.F Out	Eq. Load no.	Load type	Code Stress Allow.
E02 F-	Max P						(3a)	HOOP	0 71
	Max P	0	0		5.85	4.87	(18)	SUST	0 71
	Cold to T1	1463	142	3571	5.85	4.87	(17)	DISP	18 147
E02 F+	Max P						(3a)	HOOP	0 71
	Max P	0	0		1.00	1.00	(18)	SUST	0 71
	Cold to T1	1416	394	3571	1.00	1.00	(17)	DISP	8 147
E03 N-	Max P						(3a)	HOOP	0 71
	Max P	0	0		1.00	1.00	(18)	SUST	0 71
	Cold to T1	3371	328	3571	1.00	1.00	(17)	DISP	10 147
E03 N+	Max P						(3a)	HOOP	0 71
	Max P	0	0		5.85	4.87	(18)	SUST	0 71
	Cold to T1	328	3371	3571	5.85	4.87	(17)	DISP	34 147
E03 F-	Max P						(3a)	HOOP	0 71
	Max P	0	0		5.85	4.87	(18)	SUST	0 71
	Cold to T1	934	1516	5426	5.85	4.87	(17)	DISP	21 147
E03 F+	Max P						(3a)	HOOP	0 71
	Max P	0	0		1.00	1.00	(18)	SUST	0 71
	Cold to T1	934	1516	5426	1.00	1.00	(17)	DISP	11 147
E04 N-	Max P						(3a)	HOOP	0 71
	Max P	0	0		1.00	1.00	(18)	SUST	0 71
	Cold to T1	693	1690	5426	1.00	1.00	(17)	DISP	11 147
E04 N+	Max P						(3a)	HOOP	0 71
	Max P	0	0		5.85	4.87	(18)	SUST	0 71
	Cold to T1	693	1690	5426	5.85	4.87	(17)	DISP	21 147
E04 F-	Max P						(3a)	HOOP	0 71
	Max P	0	0		5.85	4.87	(18)	SUST	0 71
	Cold to T1	221	3371	3745	5.85	4.87	(17)	DISP	34 147
E04 F+	Max P						(3a)	HOOP	0 71
	Max P	0	0		1.00	1.00	(18)	SUST	0 71
	Cold to T1	3371	221	3745	1.00	1.00	(17)	DISP	10 147
E05 N-	Max P						(3a)	HOOP	0 71
	Max P	0	0		1.00	1.00	(18)	SUST	0 71
	Cold to T1	453	1634	3745	1.00	1.00	(17)	DISP	8 147
E05 N+	Max P						(3a)	HOOP	0 71
	Max P	0	0		5.85	4.87	(18)	SUST	0 71
	Cold to T1	453	1634	3745	5.85	4.87	(17)	DISP	18 147
E05 F-	Max P						(3a)	HOOP	0 71
	Max P	0	0		5.85	4.87	(18)	SUST	0 71
	Cold to T1	2663	2986	2394	5.85	4.87	(17)	DISP	43 147

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ASME B31.3b (2001) CODE COMPLIANCE									
(Moments in Nm)					(Stress in N/mm2)				
Point name	Load combination	In-Pl. Moment	Out-Pl. Moment	Torsion Moment	S.I.F		Eq. Load no. type	Code Stress	Code Allow.
					In	Out			
E05	F+ Max P						(3a) HOOP	0	71
	Max P	0	0		1.00	1.00	(18) SUST	0	71
	Cold to T1	2663	2986	2394	1.00	1.00	(17) DISP	9	147
E06	- Max P						(3a) HOOP	0	71
	Max P	0	0		4.57	5.76	(18) SUST	0	71
	Cold to T1	2688	2861	2394	4.57	5.76	(17) DISP	41	147
E06	+ Max P						(3a) HOOP	0	71
	Max P	0	0		4.57	5.76	(18) SUST	0	71
	Cold to T1	2581	2853	2316	4.57	5.76	(17) DISP	41	147
E07	- Max P						(3a) HOOP	0	71
	Max P	0	0		4.57	5.76	(18) SUST	0	71
	Cold to T1	2623	2604	2316	4.57	5.76	(17) DISP	38	147
E07	+ Max P						(3a) HOOP	0	71
	Max P	0	0		4.57	5.76	(18) SUST	0	71
	Cold to T1	2534	2600	2264	4.57	5.76	(17) DISP	38	147
E08	Max P						(3a) HOOP	0	71
	Max P	0	0		1.00	1.00	(18) SUST	0	71
	Cold to T1	3054	1267	2264	1.00	1.00	(17) DISP	8	147
*** Segment E end *** Line #									
*** Segment F begin *** Line #									
E06	Max P						(3a) HOOP	0	71
	Max P	0	0		4.57	5.76	(18) SUST	0	71
	Cold to T1	107	77	8	4.57	5.76	(17) DISP	66	147
F01	Max P						(3a) HOOP	0	71
	Max P	0	0		1.00	1.00	(18) SUST	0	71
	Cold to T1	105	77	8	1.00	1.00	(17) DISP	14	147
*** Segment F end *** Line #									
*** Segment G begin *** Line #									
E07	Max P						(3a) HOOP	0	71
	Max P	0	0		4.57	5.76	(18) SUST	0	71
	Cold to T1	88	52	4	4.57	5.76	(17) DISP	50	147
D00	Max P						(3a) HOOP	0	71
	Max P	0	0		1.00	1.00	(18) SUST	0	71
	Cold to T1	86	52	4	1.00	1.00	(17) DISP	11	147
*** Segment G end *** Line #									
*** Segment H begin *** Line #									

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ASME B31.3b (2001) CODE COMPLIANCE									
Point name	Load combination	(Moments in Nm)			S.I.F		(Stress in N/mm2)		Code Stress
		In-Pl. Moment	Out-Pl. Moment	Torsion Moment	In	Out	Eq. Load no. type	Code Allow.	
E08	Max P						(3a) HOOP	0	71
	Max P	0	0		1.00	1.00	(18) SUST	0	71
	Cold to T1	3054	1267	2264	1.00	1.00	(17) DISP	5	147
H01 N-	Max P						(3a) HOOP	0	71
	Max P	0	0		1.00	1.00	(18) SUST	0	71
	Cold to T1	3054	1267	2264	1.00	1.00	(17) DISP	5	147
H01 N+	Max P						(3a) HOOP	0	71
	Max P	0	0		4.43	3.69	(18) SUST	0	71
	Cold to T1	3042	1297	2264	4.43	3.69	(17) DISP	19	147
H01 F-	Max P						(3a) HOOP	0	71
	Max P	0	0		4.43	3.69	(18) SUST	0	71
	Cold to T1	1611	1806	839	4.43	3.69	(17) DISP	13	147
H01 F+	Max P						(3a) HOOP	0	71
	Max P	0	0		1.00	1.00	(18) SUST	0	71
	Cold to T1	1806	1611	839	1.00	1.00	(17) DISP	3	147
H02 N-	Max P						(3a) HOOP	0	71
	Max P	0	0		1.00	1.00	(18) SUST	0	71
	Cold to T1	1437	36	839	1.00	1.00	(17) DISP	2	147
H02 N+	Max P						(3a) HOOP	0	71
	Max P	0	0		4.43	3.69	(18) SUST	0	71
	Cold to T1	36	1437	839	4.43	3.69	(17) DISP	7	147
H02 F-	Max P						(3a) HOOP	0	71
	Max P	0	0		4.43	3.69	(18) SUST	0	71
	Cold to T1	1467	380	978	4.43	3.69	(17) DISP	9	147
H02 F+	Max P						(3a) HOOP	0	71
	Max P	0	0		1.00	1.00	(18) SUST	0	71
	Cold to T1	754	1314	978	1.00	1.00	(17) DISP	2	147
H03 -	Max P						(3a) HOOP	0	71
	Max P	0	0		3.54	4.38	(18) SUST	0	71
	Cold to T1	1013	53	978	3.54	4.38	(17) DISP	5	147
H03 +	Max P						(3a) HOOP	0	71
	Max P	0	0		3.54	4.38	(18) SUST	0	71
	Cold to T1	1144	132	744	3.54	4.38	(17) DISP	6	147
H04 -	Max P						(3a) HOOP	0	71
	Max P	0	0		3.54	4.38	(18) SUST	0	71
	Cold to T1	608	535	744	3.54	4.38	(17) DISP	4	147
H04 +	Max P						(3a) HOOP	0	71
	Max P	0	0		3.54	4.38	(18) SUST	0	71
	Cold to T1	869	964	651	3.54	4.38	(17) DISP	7	147

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ASME B31.3b (2001) CODE COMPLIANCE										
			(Moments in Nm)			(Stress in N/mm2)				
Point name	Load combination	In-Pl. Moment	Out-Pl. Moment	Torsion Moment	S.I.F		Eq. Load no.	Load type	Code Stress	Code Allow.
H05	- Max P						(3a)	HOOP	0	71
	Max P	0	0		3.54	4.38	(18)	SUST	0	71
	Cold to T1	868	963	651	3.54	4.38	(17)	DISP	7	147
H05	+ Max P						(3a)	HOOP	0	71
	Max P	0	0		3.54	4.38	(18)	SUST	0	71
	Cold to T1	401	1930	3591	3.54	4.38	(17)	DISP	13	147
H06	Max P						(3a)	HOOP	0	71
	Max P	0	0		1.00	1.00	(18)	SUST	0	71
	Cold to T1	388	495	3591	1.00	1.00	(17)	DISP	5	147
H07	Max P						(3a)	HOOP	0	71
	Max P	0	0		1.00	1.00	(18)	SUST	0	71
	Cold to T1	1410	605	3591	1.00	1.00	(17)	DISP	12	147
*** Segment H end *** Line #										
*** Segment I begin *** Line #										
H03	Max P						(3a)	HOOP	0	71
	Max P	0	0		3.54	4.38	(18)	SUST	0	71
	Cold to T1	131	235	185	3.54	4.38	(17)	DISP	9	147
I01	Max P						(3a)	HOOP	0	71
	Max P	0	0		1.00	1.00	(18)	SUST	0	71
	Cold to T1	196	127	185	1.00	1.00	(17)	DISP	4	147
*** Segment I end *** Line #										
*** Segment J begin *** Line #										
H04	Max P						(3a)	HOOP	0	71
	Max P	0	0		3.54	4.38	(18)	SUST	0	71
	Cold to T1	261	91	1499	3.54	4.38	(17)	DISP	5	147
J01	- Max P						(3a)	HOOP	0	71
	Max P	0	0		1.00	1.00	(18)	SUST	0	71
	Cold to T1	1139	496	1499	1.00	1.00	(17)	DISP	6	147
J01	+ Max P						(3a)	HOOP	0	71
	Max P	0	0		1.00	1.00	(18)	SUST	0	71
	Cold to T1	1140	496	1498	1.00	1.00	(17)	DISP	5	147
J02 N-	Max P						(3a)	HOOP	0	71
	Max P	0	0		1.00	1.00	(18)	SUST	0	71
	Cold to T1	1143	496	1498	1.00	1.00	(17)	DISP	5	147
J02 N+	Max P						(3a)	HOOP	0	71
	Max P	0	0		4.75	3.96	(18)	SUST	0	71
	Cold to T1	775	976	1498	4.75	3.96	(17)	DISP	15	147

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ASME B31.3b (2001) CODE COMPLIANCE									
		(Moments in Nm)			(Stress in N/mm2)				
Point name	Load combination	In-Pl. Moment	Out-Pl. Moment	Torsion Moment	S.I.F		Eq. Load no. type	Code Stress	Code Allow.
					In	Out			
J02 F-	Max P						(3a) HOOP	0	71
	Max P	0	0		4.75	3.96	(18) SUST	0	71
	Cold to T1	552	25	2448	4.75	3.96	(17) DISP	10	147
J02 F+	Max P						(3a) HOOP	0	71
	Max P	0	0		1.00	1.00	(18) SUST	0	71
	Cold to T1	25	434	2472	1.00	1.00	(17) DISP	7	147
J03 N-	Max P						(3a) HOOP	0	71
	Max P	0	0		1.00	1.00	(18) SUST	0	71
	Cold to T1	25	434	2472	1.00	1.00	(17) DISP	7	147
J03 N+	Max P						(3a) HOOP	0	71
	Max P	0	0		4.75	3.96	(18) SUST	0	71
	Cold to T1	25	552	2448	4.75	3.96	(17) DISP	9	147
J03 F-	Max P						(3a) HOOP	0	71
	Max P	0	0		4.75	3.96	(18) SUST	0	71
	Cold to T1	825	193	2724	4.75	3.96	(17) DISP	13	147
J03 F+	Max P						(3a) HOOP	0	71
	Max P	0	0		1.00	1.00	(18) SUST	0	71
	Cold to T1	825	193	2724	1.00	1.00	(17) DISP	8	147
J04 N-	Max P						(3a) HOOP	0	71
	Max P	0	0		1.00	1.00	(18) SUST	0	71
	Cold to T1	825	193	2724	1.00	1.00	(17) DISP	8	147
J04 N+	Max P						(3a) HOOP	0	71
	Max P	0	0		4.75	3.96	(18) SUST	0	71
	Cold to T1	825	193	2724	4.75	3.96	(17) DISP	13	147
J04 F-	Max P						(3a) HOOP	0	71
	Max P	0	0		4.75	3.96	(18) SUST	0	71
	Cold to T1	1163	624	1907	4.75	3.96	(17) DISP	17	147
J04 F+	Max P						(3a) HOOP	0	71
	Max P	0	0		1.00	1.00	(18) SUST	0	71
	Cold to T1	1163	624	1907	1.00	1.00	(17) DISP	6	147
J05 -	Max P						(3a) HOOP	0	71
	Max P	0	0		3.44	4.26	(18) SUST	0	71
	Cold to T1	2040	512	1907	3.44	4.26	(17) DISP	19	147
J05 +	Max P						(3a) HOOP	0	71
	Max P	0	0		3.44	4.26	(18) SUST	0	71
	Cold to T1	9538	138	1665	3.44	4.26	(17) DISP	84	147
J06 -	Max P						(3a) HOOP	0	71
	Max P	0	0		3.44	4.26	(18) SUST	0	71
	Cold to T1	7254	578	1665	3.44	4.26	(17) DISP	64	147

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ASME B31.3b (2001) CODE COMPLIANCE									
			(Moments in Nm)			(Stress in N/mm2)			
Point name	Load combination	In-Pl. Moment	Out-Pl. Moment	Torsion Moment	S.I.F		Eq. Load no. type	Code Stress	Code Allow.
J06	+ Max P						(3a) HOOP	0	71
	Max P	0	0		3.44	4.26	(18) SUST	0	71
	Cold to T1	0	0	0	3.44	4.26	(17) DISP	0	147
J07	Max P						(3a) HOOP	0	71
	Max P	0	0		1.00	1.00	(18) SUST	0	71
	Cold to T1	0	0	0	1.00	1.00	(17) DISP	0	147
*** Segment J end *** Line #									
*** Segment K begin *** Line #									
H05	Max P						(3a) HOOP	0	71
	Max P	0	0		3.54	4.38	(18) SUST	0	71
	Cold to T1	1269	4242	967	3.54	4.38	(17) DISP	40	147
K01 -	Max P						(3a) HOOP	0	71
	Max P	0	0		1.00	1.00	(18) SUST	0	71
	Cold to T1	3675	1206	967	1.00	1.00	(17) DISP	13	147
K01 +	Max P						(3a) HOOP	0	71
	Max P	0	0		1.00	1.00	(18) SUST	0	71
	Cold to T1	3675	1206	967	1.00	1.00	(17) DISP	10	147
K02 N-	Max P						(3a) HOOP	0	71
	Max P	0	0		1.00	1.00	(18) SUST	0	71
	Cold to T1	911	700	967	1.00	1.00	(17) DISP	4	147
K02 N+	Max P						(3a) HOOP	0	71
	Max P	0	0		4.75	3.96	(18) SUST	0	71
	Cold to T1	912	698	967	4.75	3.96	(17) DISP	14	147
K02 F-	Max P						(3a) HOOP	0	71
	Max P	0	0		4.75	3.96	(18) SUST	0	71
	Cold to T1	361	94	1571	4.75	3.96	(17) DISP	6	147
K02 F+	Max P						(3a) HOOP	0	71
	Max P	0	0		1.00	1.00	(18) SUST	0	71
	Cold to T1	94	285	1587	1.00	1.00	(17) DISP	4	147
K03 N-	Max P						(3a) HOOP	0	71
	Max P	0	0		1.00	1.00	(18) SUST	0	71
	Cold to T1	94	285	1587	1.00	1.00	(17) DISP	4	147
K03 N+	Max P						(3a) HOOP	0	71
	Max P	0	0		4.75	3.96	(18) SUST	0	71
	Cold to T1	94	361	1571	4.75	3.96	(17) DISP	6	147
K03 F-	Max P						(3a) HOOP	0	71
	Max P	0	0		4.75	3.96	(18) SUST	0	71
	Cold to T1	651	65	1798	4.75	3.96	(17) DISP	10	147

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ASME B31.3b (2001) CODE COMPLIANCE										
			(Moments in Nm)			(Stress in N/mm2)				
Point name	Load combination	In-Pl. Moment	Out-Pl. Moment	Torsion Moment	S.I.F		Eq. no.	Load type	Code Stress	Code Allow.
					In	Out				
K03 F+	Max P						(3a)	HOOP	0	71
	Max P	0	0		1.00	1.00	(18)	SUST	0	71
	Cold to T1	651	65	1798	1.00	1.00	(17)	DISP	5	147
K04 N-	Max P						(3a)	HOOP	0	71
	Max P	0	0		1.00	1.00	(18)	SUST	0	71
	Cold to T1	651	65	1798	1.00	1.00	(17)	DISP	5	147
K04 N+	Max P						(3a)	HOOP	0	71
	Max P	0	0		4.75	3.96	(18)	SUST	0	71
	Cold to T1	651	65	1798	4.75	3.96	(17)	DISP	10	147
K04 F-	Max P						(3a)	HOOP	0	71
	Max P	0	0		4.75	3.96	(18)	SUST	0	71
	Cold to T1	131	391	1342	4.75	3.96	(17)	DISP	6	147
K04 F+	Max P						(3a)	HOOP	0	71
	Max P	0	0		1.00	1.00	(18)	SUST	0	71
	Cold to T1	131	391	1342	1.00	1.00	(17)	DISP	4	147
K05 -	Max P						(3a)	HOOP	0	71
	Max P	0	0		3.44	4.26	(18)	SUST	0	71
	Cold to T1	605	369	1342	3.44	4.26	(17)	DISP	7	147
K05 +	Max P						(3a)	HOOP	0	71
	Max P	0	0		3.44	4.26	(18)	SUST	0	71
	Cold to T1	8263	76	1145	3.44	4.26	(17)	DISP	72	147
K06 -	Max P						(3a)	HOOP	0	71
	Max P	0	0		3.44	4.26	(18)	SUST	0	71
	Cold to T1	7694	393	1145	3.44	4.26	(17)	DISP	68	147
K06 +	Max P						(3a)	HOOP	0	71
	Max P	0	0		3.44	4.26	(18)	SUST	0	71
	Cold to T1	0	0	0	3.44	4.26	(17)	DISP	0	147
K07	Max P						(3a)	HOOP	0	71
	Max P	0	0		1.00	1.00	(18)	SUST	0	71
	Cold to T1	0	0	0	1.00	1.00	(17)	DISP	0	147
*** Segment K end *** Line #										
*** Segment L begin *** Line #										
J05	Max P						(3a)	HOOP	0	71
	Max P	0	0		3.44	4.26	(18)	SUST	0	71
	Cold to T1	7498	242	650	3.44	4.26	(17)	DISP	145	147
L01 -	Max P						(3a)	HOOP	0	71
	Max P	0	0		1.00	1.00	(18)	SUST	0	71
	Cold to T1	4160	1186	650	1.00	1.00	(17)	DISP	20	147

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ASME B31.3b (2001) CODE COMPLIANCE										
Point name	Load combination	(Moments in Nm)			S.I.F		(Stress in N/mm2)		Code Stress	Code Allow.
		In-Pl. Moment	Out-Pl. Moment	Torsion Moment	In	Out	Eq. no.	Load type		
L01	+ Max P						(3a) HOOP	0	71	
	Max P	0	0		1.00	1.00	(18) SUST	0	71	
	Cold to T1	4160	1186	650	1.00	1.00	(17) DISP	20	147	
L02	Max P						(3a) HOOP	0	71	
	Max P	0	0		1.00	1.00	(18) SUST	0	71	
	Cold to T1	11335	5565	650	1.00	1.00	(17) DISP	57	147	
*** Segment L end *** Line #										
*** Segment M begin *** Line #										
K05	Max P						(3a) HOOP	0	71	
	Max P	0	0		3.44	4.26	(18) SUST	0	71	
	Cold to T1	7657	197	445	3.44	4.26	(17) DISP	149	147**	
	with Sus. load margin						(17)	149	218	
M01	- Max P						(3a) HOOP	0	71	
	Max P	0	0		1.00	1.00	(18) SUST	0	71	
	Cold to T1	4361	831	445	1.00	1.00	(17) DISP	20	147	
M01	+ Max P						(3a) HOOP	0	71	
	Max P	0	0		1.00	1.00	(18) SUST	0	71	
	Cold to T1	4361	831	445	1.00	1.00	(17) DISP	20	147	
M02	Max P						(3a) HOOP	0	71	
	Max P	0	0		1.00	1.00	(18) SUST	0	71	
	Cold to T1	10941	3773	445	1.00	1.00	(17) DISP	52	147	
*** Segment M end *** Line #										
*** Segment N begin *** Line #										
J06	Max P						(3a) HOOP	0	71	
	Max P	0	0		3.44	4.26	(18) SUST	0	71	
	Cold to T1	7254	1665	578	3.44	4.26	(17) DISP	146	147	
N01	- Max P						(3a) HOOP	0	71	
	Max P	0	0		1.00	1.00	(18) SUST	0	71	
	Cold to T1	4100	1778	578	1.00	1.00	(17) DISP	20	147	
N01	+ Max P						(3a) HOOP	0	71	
	Max P	0	0		1.00	1.00	(18) SUST	0	71	
	Cold to T1	4100	1778	578	1.00	1.00	(17) DISP	20	147	
N02	Max P						(3a) HOOP	0	71	
	Max P	0	0		1.00	1.00	(18) SUST	0	71	
	Cold to T1	10541	2306	578	1.00	1.00	(17) DISP	49	147	
*** Segment N end *** Line #										
*** Segment O begin *** Line #										

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ASME B31.3b (2001) CODE COMPLIANCE									
(Moments in Nm)					(Stress in N/mm2)				
Point name	Load combination	In-Pl. Moment	Out-Pl. Moment	Torsion Moment	S.I.F In Out	Eq. Load no. type	Code Stress	Code Allow.	
K06	Max P					(3a) HOOP	0	71	
	Max P	0	0		3.44 4.26	(18) SUST	0	71	
	Cold to T1	7694	1145	393	3.44 4.26	(17) DISP	152	147**	
	with Sus. load margin					(17)	152	218	
O01	- Max P					(3a) HOOP	0	71	
	Max P	0	0		1.00 1.00	(18) SUST	0	71	
	Cold to T1	4349	1219	393	1.00 1.00	(17) DISP	21	147	
O01	+ Max P					(3a) HOOP	0	71	
	Max P	0	0		1.00 1.00	(18) SUST	0	71	
	Cold to T1	4349	1219	393	1.00 1.00	(17) DISP	21	147	
O02	Max P					(3a) HOOP	0	71	
	Max P	0	0		1.00 1.00	(18) SUST	0	71	
	Cold to T1	11180	1564	393	1.00 1.00	(17) DISP	51	147	
*** Segment O end *** Line #									
*** Segment Q begin *** Line #									
Q00	Max P					(3a) HOOP	0	71	
	Max P	0	0		1.00 1.00	(18) SUST	0	71	
	Cold to T1	182	195	60	1.00 1.00	(17) DISP	1	147	
Q01 N-	Max P					(3a) HOOP	0	71	
	Max P	0	0		1.00 1.00	(18) SUST	0	71	
	Cold to T1	189	176	60	1.00 1.00	(17) DISP	1	147	
Q01 N+	Max P					(3a) HOOP	0	71	
	Max P	0	0		2.90 2.42	(18) SUST	0	71	
	Cold to T1	176	189	60	2.90 2.42	(17) DISP	3	147	
Q01 F-	Max P					(3a) HOOP	0	71	
	Max P	0	0		2.90 2.42	(18) SUST	0	71	
	Cold to T1	112	55	193	2.90 2.42	(17) DISP	2	147	
Q01 F+	Max P					(3a) HOOP	0	71	
	Max P	0	0		1.00 1.00	(18) SUST	0	71	
	Cold to T1	112	55	193	1.00 1.00	(17) DISP	1	147	
Q02	Max P					(3a) HOOP	0	71	
	Max P	0	0		1.00 1.00	(18) SUST	0	71	
	Cold to T1	112	55	193	1.00 1.00	(17) DISP	1	147	
Q03	Max P					(3a) HOOP	0	71	
	Max P	0	0		1.00 1.00	(18) SUST	0	71	
	Cold to T1	87	53	193	1.00 1.00	(17) DISP	2	147	
Q04 N-	Max P					(3a) HOOP	0	71	
	Max P	0	0		1.00 1.00	(18) SUST	0	71	
	Cold to T1	5	46	193	1.00 1.00	(17) DISP	2	147	

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ASME B31.3b (2001) CODE COMPLIANCE									
			(Moments in Nm)			(Stress in N/mm2)			
Point	Load	In-Pl.	Out-Pl.	Torsion	S.I.F		Eq. Load	Code	Code
name	combination	Moment	Moment	Moment	In	Out	no. type	Stress	Allow.
Q04 N+	Max P						(3a) HOOP	0	71
	Max P	0	0		2.56	2.13	(18) SUST	0	71
	Cold to T1	5	46	193	2.56	2.13	(17) DISP	2	147
Q04 F-	Max P						(3a) HOOP	0	71
	Max P	0	0		2.56	2.13	(18) SUST	0	71
	Cold to T1	24	190	42	2.56	2.13	(17) DISP	3	147
Q04 F+	Max P						(3a) HOOP	0	71
	Max P	0	0		1.00	1.00	(18) SUST	0	71
	Cold to T1	190	24	42	1.00	1.00	(17) DISP	2	147
Q05 N-	Max P						(3a) HOOP	0	71
	Max P	0	0		1.00	1.00	(18) SUST	0	71
	Cold to T1	179	6	42	1.00	1.00	(17) DISP	2	147
Q05 N+	Max P						(3a) HOOP	0	71
	Max P	0	0		2.56	2.13	(18) SUST	0	71
	Cold to T1	6	179	42	2.56	2.13	(17) DISP	3	147
Q05 F-	Max P						(3a) HOOP	0	71
	Max P	0	0		2.56	2.13	(18) SUST	0	71
	Cold to T1	22	39	176	2.56	2.13	(17) DISP	2	147
Q05 F+	Max P						(3a) HOOP	0	71
	Max P	0	0		1.00	1.00	(18) SUST	0	71
	Cold to T1	22	39	176	1.00	1.00	(17) DISP	2	147
Q06 N-	Max P						(3a) HOOP	0	71
	Max P	0	0		1.00	1.00	(18) SUST	0	71
	Cold to T1	86	33	176	1.00	1.00	(17) DISP	2	147
Q06 N+	Max P						(3a) HOOP	0	71
	Max P	0	0		2.56	2.13	(18) SUST	0	71
	Cold to T1	33	86	176	2.56	2.13	(17) DISP	2	147
Q06 F-	Max P						(3a) HOOP	0	71
	Max P	0	0		2.56	2.13	(18) SUST	0	71
	Cold to T1	20	138	124	2.56	2.13	(17) DISP	3	147
Q06 F+	Max P						(3a) HOOP	0	71
	Max P	0	0		1.00	1.00	(18) SUST	0	71
	Cold to T1	138	20	124	1.00	1.00	(17) DISP	2	147
Q07 N-	Max P						(3a) HOOP	0	71
	Max P	0	0		1.00	1.00	(18) SUST	0	71
	Cold to T1	65	31	124	1.00	1.00	(17) DISP	1	147
Q07 N+	Max P						(3a) HOOP	0	71
	Max P	0	0		2.56	2.13	(18) SUST	0	71
	Cold to T1	65	31	124	2.56	2.13	(17) DISP	2	147

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ASME B31.3b (2001) CODE COMPLIANCE									
		(Moments in Nm)			(Stress in N/mm2)				
Point	Load	In-Pl.	Out-Pl.	Torsion	S.I.F	Eq. Load	Code	Code	
name	combination	Moment	Moment	Moment	In Out	no. type	Stress	Allow.	
Q07 F-	Max P					(3a) HOOP	0	71	
	Max P	0	0		2.56 2.13	(18) SUST	0	71	
	Cold to T1	107	115	40	2.56 2.13	(17) DISP	3	147	
Q07 F+	Max P					(3a) HOOP	0	71	
	Max P	0	0		1.00 1.00	(18) SUST	0	71	
	Cold to T1	107	115	40	1.00 1.00	(17) DISP	1	147	
Q08 N-	Max P					(3a) HOOP	0	71	
	Max P	0	0		1.00 1.00	(18) SUST	0	71	
	Cold to T1	147	3	40	1.00 1.00	(17) DISP	1	147	
Q08 N+	Max P					(3a) HOOP	0	71	
	Max P	0	0		2.56 2.13	(18) SUST	0	71	
	Cold to T1	147	3	40	2.56 2.13	(17) DISP	3	147	
Q08 F-	Max P					(3a) HOOP	0	71	
	Max P	0	0		2.56 2.13	(18) SUST	0	71	
	Cold to T1	154	23	35	2.56 2.13	(17) DISP	3	147	
Q08 F+	Max P					(3a) HOOP	0	71	
	Max P	0	0		1.00 1.00	(18) SUST	0	71	
	Cold to T1	154	23	35	1.00 1.00	(17) DISP	1	147	
Q09 N-	Max P					(3a) HOOP	0	71	
	Max P	0	0		1.00 1.00	(18) SUST	0	71	
	Cold to T1	177	33	35	1.00 1.00	(17) DISP	2	147	
Q09 N+	Max P					(3a) HOOP	0	71	
	Max P	0	0		2.56 2.13	(18) SUST	0	71	
	Cold to T1	13	180	35	2.56 2.13	(17) DISP	3	147	
Q09 F-	Max P					(3a) HOOP	0	71	
	Max P	0	0		2.56 2.13	(18) SUST	0	71	
	Cold to T1	46	21	202	2.56 2.13	(17) DISP	2	147	
Q09 F+	Max P					(3a) HOOP	0	71	
	Max P	0	0		1.00 1.00	(18) SUST	0	71	
	Cold to T1	50	5	202	1.00 1.00	(17) DISP	2	147	
Q10 N-	Max P					(3a) HOOP	0	71	
	Max P	0	0		1.00 1.00	(18) SUST	0	71	
	Cold to T1	73	3	202	1.00 1.00	(17) DISP	2	147	
Q10 N+	Max P					(3a) HOOP	0	71	
	Max P	0	0		2.56 2.13	(18) SUST	0	71	
	Cold to T1	73	3	202	2.56 2.13	(17) DISP	2	147	
Q10 F-	Max P					(3a) HOOP	0	71	
	Max P	0	0		2.56 2.13	(18) SUST	0	71	
	Cold to T1	112	200	43	2.56 2.13	(17) DISP	4	147	

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ASME B31.3b (2001) CODE COMPLIANCE									
Point name	Load combination	(Moments in Nm)			S.I.F		(Stress in N/mm2)		Code Stress
		In-Pl. Moment	Out-Pl. Moment	Torsion Moment	In	Out	Eq. Load no. type	Code Allow.	
Q10 F+	Max P						(3a) HOOP	0	71
	Max P	0	0		1.00	1.00	(18) SUST	0	71
	Cold to T1	200	112	43	1.00	1.00	(17) DISP	2	147
Q11 N-	Max P						(3a) HOOP	0	71
	Max P	0	0		1.00	1.00	(18) SUST	0	71
	Cold to T1	217	162	43	1.00	1.00	(17) DISP	2	147
Q11 N+	Max P						(3a) HOOP	0	71
	Max P	0	0		2.56	2.13	(18) SUST	0	71
	Cold to T1	162	217	43	2.56	2.13	(17) DISP	5	147
Q11 F-	Max P						(3a) HOOP	0	71
	Max P	0	0		2.56	2.13	(18) SUST	0	71
	Cold to T1	180	125	185	2.56	2.13	(17) DISP	5	147
Q11 F+	Max P						(3a) HOOP	0	71
	Max P	0	0		1.00	1.00	(18) SUST	0	71
	Cold to T1	180	125	185	1.00	1.00	(17) DISP	2	147
I01	Max P						(3a) HOOP	0	71
	Max P	0	0		1.00	1.00	(18) SUST	0	71
	Cold to T1	196	127	185	1.00	1.00	(17) DISP	2	147
*** Segment Q end *** Line #									
*** Segment R begin *** Line #									
R00	Max P						(3a) HOOP	0	71
	Max P	0	0		1.00	1.00	(18) SUST	0	71
	Cold to T1	2663	1351	3878	1.00	1.00	(17) DISP	23	147
R01	Max P						(3a) HOOP	0	71
	Max P	0	0		1.00	1.00	(18) SUST	0	71
	Cold to T1	3463	1901	3878	1.00	1.00	(17) DISP	27	147
R02	Max P						(3a) HOOP	0	71
	Max P	0	0		1.00	1.00	(18) SUST	0	71
	Cold to T1	3997	2268	3878	1.00	1.00	(17) DISP	14	147
R03 -	Max P						(3a) HOOP	0	71
	Max P	0	0		2.31	2.75	(18) SUST	0	71
	Cold to T1	4530	2635	3878	2.31	2.75	(17) DISP	31	147
R03 +	Max P						(3a) HOOP	0	71
	Max P	0	0		2.31	2.75	(18) SUST	0	71
	Cold to T1	4152	572	3611	2.31	2.75	(17) DISP	24	147
R04 -	Max P						(3a) HOOP	0	71
	Max P	0	0		1.00	1.00	(18) SUST	0	71
	Cold to T1	3658	388	3611	1.00	1.00	(17) DISP	12	147

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ASME B31.3b (2001) CODE COMPLIANCE									
Point name	Load combination	(Moments in Nm)			S.I.F		(Stress in N/mm2)		Code Stress
		In-Pl. Moment	Out-Pl. Moment	Torsion Moment	In	Out	Eq. Load no. type		
R04	+ Max P						(3a) HOOP	0	71
	Max P	0	0		1.00	1.00	(18) SUST	0	71
	Cold to T1	3658	388	3611	1.00	1.00	(17) DISP	16	147
R05	Max P						(3a) HOOP	0	71
	Max P	0	0		1.00	1.00	(18) SUST	0	71
	Cold to T1	3164	205	3611	1.00	1.00	(17) DISP	23	147
R06 N-	Max P						(3a) HOOP	0	71
	Max P	0	0		1.00	1.00	(18) SUST	0	71
	Cold to T1	509	782	3611	1.00	1.00	(17) DISP	18	147
R06 N+	Max P						(3a) HOOP	0	71
	Max P	0	0		2.90	2.42	(18) SUST	0	71
	Cold to T1	782	509	3611	2.90	2.42	(17) DISP	20	147
R06 F-	Max P						(3a) HOOP	0	71
	Max P	0	0		2.90	2.42	(18) SUST	0	71
	Cold to T1	842	2858	244	2.90	2.42	(17) DISP	33	147
R06 F+	Max P						(3a) HOOP	0	71
	Max P	0	0		1.00	1.00	(18) SUST	0	71
	Cold to T1	2858	842	244	1.00	1.00	(17) DISP	14	147
R07	Max P						(3a) HOOP	0	71
	Max P	0	0		1.00	1.00	(18) SUST	0	71
	Cold to T1	2858	841	244	1.00	1.00	(17) DISP	14	147
R08	Max P						(3a) HOOP	0	71
	Max P	0	0		1.00	1.00	(18) SUST	0	71
	Cold to T1	2611	769	244	1.00	1.00	(17) DISP	12	147
*** Segment R end *** Line #									
*** Segment S begin *** Line #									
R03	Max P						(3a) HOOP	0	71
	Max P	0	0		2.31	2.75	(18) SUST	0	71
	Cold to T1	2184	7174	2063	2.31	2.75	(17) DISP	91	147
S01 -	Max P						(3a) HOOP	0	71
	Max P	0	0		1.00	1.00	(18) SUST	0	71
	Cold to T1	6543	2100	2063	1.00	1.00	(17) DISP	32	147
S01 +	Max P						(3a) HOOP	0	71
	Max P	0	0		1.00	1.00	(18) SUST	0	71
	Cold to T1	450	6857	2063	1.00	1.00	(17) DISP	17	147
S02 N-	Max P						(3a) HOOP	0	71
	Max P	0	0		1.00	1.00	(18) SUST	0	71
	Cold to T1	1437	1816	2063	1.00	1.00	(17) DISP	7	147

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ASME B31.3b (2001) CODE COMPLIANCE									
Point name	Load combination	(Moments in Nm)			S.I.F		(Stress in N/mm2)		Code Stress
		In-Pl. Moment	Out-Pl. Moment	Torsion Moment	In	Out	Eq. Load no. type		
S02 N+	Max P						(3a) HOOP	0	71
	Max P	0	0		3.54	2.95	(18) SUST	0	71
	Cold to T1	1437	1816	2063	3.54	2.95	(17) DISP	23	147
S02 F-	Max P						(3a) HOOP	0	71
	Max P	0	0		3.54	2.95	(18) SUST	0	71
	Cold to T1	102	510	3065	3.54	2.95	(17) DISP	10	147
S02 F+	Max P						(3a) HOOP	0	71
	Max P	0	0		1.00	1.00	(18) SUST	0	71
	Cold to T1	102	510	3065	1.00	1.00	(17) DISP	7	147
S03 N-	Max P						(3a) HOOP	0	71
	Max P	0	0		1.00	1.00	(18) SUST	0	71
	Cold to T1	1731	522	3065	1.00	1.00	(17) DISP	8	147
S03 N+	Max P						(3a) HOOP	0	71
	Max P	0	0		3.54	2.95	(18) SUST	0	71
	Cold to T1	523	1731	3065	3.54	2.95	(17) DISP	19	147
S03 F-	Max P						(3a) HOOP	0	71
	Max P	0	0		3.54	2.95	(18) SUST	0	71
	Cold to T1	949	1205	3591	3.54	2.95	(17) DISP	18	147
S03 F+	Max P						(3a) HOOP	0	71
	Max P	0	0		1.00	1.00	(18) SUST	0	71
	Cold to T1	1410	605	3591	1.00	1.00	(17) DISP	12	147
H07	Max P						(3a) HOOP	0	71
	Max P	0	0		1.00	1.00	(18) SUST	0	71
	Cold to T1	1410	605	3591	1.00	1.00	(17) DISP	12	147
*** Segment S end *** Line #									
*** Segment T begin *** Line #									
T00	Max P						(3a) HOOP	0	71
	Max P	0	0		1.00	1.00	(18) SUST	0	71
	Cold to T1	36	4	74	1.00	1.00	(17) DISP	9	147
T01	Max P						(3a) HOOP	0	71
	Max P	0	0		1.00	1.00	(18) SUST	0	71
	Cold to T1	23	1	74	1.00	1.00	(17) DISP	8	147
T02 N-	Max P						(3a) HOOP	0	71
	Max P	0	0		1.00	1.00	(18) SUST	0	71
	Cold to T1	23	1	74	1.00	1.00	(17) DISP	8	147
T02 N+	Max P						(3a) HOOP	0	71
	Max P	0	0		1.27	1.06	(18) SUST	0	71
	Cold to T1	1	24	74	1.27	1.06	(17) DISP	9	147

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ASME B31.3b (2001) CODE COMPLIANCE									
		(Moments in Nm)			(Stress in N/mm2)				
Point	Load	In-Pl.	Out-Pl.	Torsion	S.I.F		Eq. Load	Code	Code
name	combination	Moment	Moment	Moment	In	Out	no. type	Stress	Allow.
T02 F-	Max P						(3a) HOOP	0	71
	Max P	0	0		1.27	1.06	(18) SUST	0	71
	Cold to T1	1	36	68	1.27	1.06	(17) DISP	9	147
T02 F+	Max P						(3a) HOOP	0	71
	Max P	0	0		1.00	1.00	(18) SUST	0	71
	Cold to T1	37	1	68	1.00	1.00	(17) DISP	8	147
T03	Max P						(3a) HOOP	0	71
	Max P	0	0		1.00	1.00	(18) SUST	0	71
	Cold to T1	37	1	68	1.00	1.00	(17) DISP	8	147
T04 N-	Max P						(3a) HOOP	0	71
	Max P	0	0		1.00	1.00	(18) SUST	0	71
	Cold to T1	22	3	68	1.00	1.00	(17) DISP	8	147
T04 N+	Max P						(3a) HOOP	0	71
	Max P	0	0		1.27	1.06	(18) SUST	0	71
	Cold to T1	3	24	68	1.27	1.06	(17) DISP	8	147
T04 F-	Max P						(3a) HOOP	0	71
	Max P	0	0		1.27	1.06	(18) SUST	0	71
	Cold to T1	4	55	44	1.27	1.06	(17) DISP	8	147
T04 F+	Max P						(3a) HOOP	0	71
	Max P	0	0		1.00	1.00	(18) SUST	0	71
	Cold to T1	54	4	45	1.00	1.00	(17) DISP	8	147
T05	Max P						(3a) HOOP	0	71
	Max P	0	0		1.00	1.00	(18) SUST	0	71
	Cold to T1	54	4	45	1.00	1.00	(17) DISP	8	147
T06 N-	Max P						(3a) HOOP	0	71
	Max P	0	0		1.00	1.00	(18) SUST	0	71
	Cold to T1	25	9	45	1.00	1.00	(17) DISP	6	147
T06 N+	Max P						(3a) HOOP	0	71
	Max P	0	0		1.27	1.06	(18) SUST	0	71
	Cold to T1	6	26	45	1.27	1.06	(17) DISP	6	147
T06 F-	Max P						(3a) HOOP	0	71
	Max P	0	0		1.27	1.06	(18) SUST	0	71
	Cold to T1	7	48	14	1.27	1.06	(17) DISP	6	147
T06 F+	Max P						(3a) HOOP	0	71
	Max P	0	0		1.00	1.00	(18) SUST	0	71
	Cold to T1	47	11	14	1.00	1.00	(17) DISP	6	147
T07 N-	Max P						(3a) HOOP	0	71
	Max P	0	0		1.00	1.00	(18) SUST	0	71
	Cold to T1	27	8	14	1.00	1.00	(17) DISP	3	147

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ASME B31.3b (2001) CODE COMPLIANCE										
		(Moments in Nm)			(Stress in N/mm2)					
Point name	Load combination	In-Pl. Moment	Out-Pl. Moment	Torsion Moment	S.I.F		Eq. Load no.	Load type	Code Stress	Code Allow.
T07 N+	Max P						(3a)	HOOP	0	71
	Max P	0	0		1.27	1.06	(18)	SUST	0	71
	Cold to T1	27	8	14	1.27	1.06	(17)	DISP	4	147
T07 F-	Max P						(3a)	HOOP	0	71
	Max P	0	0		1.27	1.06	(18)	SUST	0	71
	Cold to T1	29	15	7	1.27	1.06	(17)	DISP	4	147
T07 F+	Max P						(3a)	HOOP	0	71
	Max P	0	0		1.00	1.00	(18)	SUST	0	71
	Cold to T1	29	15	7	1.00	1.00	(17)	DISP	4	147
T08 N-	Max P						(3a)	HOOP	0	71
	Max P	0	0		1.00	1.00	(18)	SUST	0	71
	Cold to T1	15	13	7	1.00	1.00	(17)	DISP	2	147
T08 N+	Max P						(3a)	HOOP	0	71
	Max P	0	0		1.27	1.06	(18)	SUST	0	71
	Cold to T1	13	15	7	1.27	1.06	(17)	DISP	3	147
T08 F-	Max P						(3a)	HOOP	0	71
	Max P	0	0		1.27	1.06	(18)	SUST	0	71
	Cold to T1	10	7	14	1.27	1.06	(17)	DISP	2	147
T08 F+	Max P						(3a)	HOOP	0	71
	Max P	0	0		1.00	1.00	(18)	SUST	0	71
	Cold to T1	10	7	14	1.00	1.00	(17)	DISP	2	147
T09 N-	Max P						(3a)	HOOP	0	71
	Max P	0	0		1.00	1.00	(18)	SUST	0	71
	Cold to T1	13	1	14	1.00	1.00	(17)	DISP	2	147
T09 N+	Max P						(3a)	HOOP	0	71
	Max P	0	0		1.27	1.06	(18)	SUST	0	71
	Cold to T1	2	12	14	1.27	1.06	(17)	DISP	2	147
T09 F-	Max P						(3a)	HOOP	0	71
	Max P	0	0		1.27	1.06	(18)	SUST	0	71
	Cold to T1	1	10	16	1.27	1.06	(17)	DISP	2	147
T09 F+	Max P						(3a)	HOOP	0	71
	Max P	0	0		1.00	1.00	(18)	SUST	0	71
	Cold to T1	10	0	16	1.00	1.00	(17)	DISP	2	147
T10 N-	Max P						(3a)	HOOP	0	71
	Max P	0	0		1.00	1.00	(18)	SUST	0	71
	Cold to T1	4	0	16	1.00	1.00	(17)	DISP	2	147
T10 N+	Max P						(3a)	HOOP	0	71
	Max P	0	0		1.27	1.06	(18)	SUST	0	71
	Cold to T1	4	0	16	1.27	1.06	(17)	DISP	2	147

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ASME B31.3b (2001) CODE COMPLIANCE									
Point name	Load combination	(Moments in Nm)			S.I.F		(Stress in N/mm2)		
		In-Pl. Moment	Out-Pl. Moment	Torsion Moment	In	Out	Eq. Load no. type	Code Stress	Code Allow.
T10 F-	Max P						(3a) HOOP	0	71
	Max P	0	0	1.27	1.06		(18) SUST	0	71
	Cold to T1	0	16	1	1.27	1.06	(17) DISP	2	147
T10 F+	Max P						(3a) HOOP	0	71
	Max P	0	0	1.00	1.00		(18) SUST	0	71
	Cold to T1	0	16	1	1.00	1.00	(17) DISP	2	147
T11 N-	Max P						(3a) HOOP	0	71
	Max P	0	0	1.00	1.00		(18) SUST	0	71
	Cold to T1	30	19	1	1.00	1.00	(17) DISP	4	147
T11 N+	Max P						(3a) HOOP	0	71
	Max P	0	0	1.27	1.06		(18) SUST	0	71
	Cold to T1	30	19	1	1.27	1.06	(17) DISP	5	147
T11 F-	Max P						(3a) HOOP	0	71
	Max P	0	0	1.27	1.06		(18) SUST	0	71
	Cold to T1	28	3	19	1.27	1.06	(17) DISP	4	147
T11 F+	Max P						(3a) HOOP	0	71
	Max P	0	0	1.00	1.00		(18) SUST	0	71
	Cold to T1	28	3	19	1.00	1.00	(17) DISP	4	147
T12	Max P						(3a) HOOP	0	71
	Max P	0	0	1.00	1.00		(18) SUST	0	71
	Cold to T1	6	4	19	1.00	1.00	(17) DISP	2	147
T13 N-	Max P						(3a) HOOP	0	71
	Max P	0	0	1.00	1.00		(18) SUST	0	71
	Cold to T1	6	4	19	1.00	1.00	(17) DISP	2	147
T13 N+	Max P						(3a) HOOP	0	71
	Max P	0	0	1.27	1.06		(18) SUST	0	71
	Cold to T1	3	6	19	1.27	1.06	(17) DISP	2	147
T13 F-	Max P						(3a) HOOP	0	71
	Max P	0	0	1.27	1.06		(18) SUST	0	71
	Cold to T1	3	13	14	1.27	1.06	(17) DISP	2	147
T13 F+	Max P						(3a) HOOP	0	71
	Max P	0	0	1.00	1.00		(18) SUST	0	71
	Cold to T1	13	3	14	1.00	1.00	(17) DISP	2	147
T14	Max P						(3a) HOOP	0	71
	Max P	0	0	1.00	1.00		(18) SUST	0	71
	Cold to T1	13	3	14	1.00	1.00	(17) DISP	2	147
T15 N-	Max P						(3a) HOOP	0	71
	Max P	0	0	1.00	1.00		(18) SUST	0	71
	Cold to T1	5	2	14	1.00	1.00	(17) DISP	2	147

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ASME B31.3b (2001) CODE COMPLIANCE									
Point name	Load combination	(Moments in Nm)			S.I.F		(Stress in N/mm2)		
		In-Pl. Moment	Out-Pl. Moment	Torsion Moment			Eq. Load no. type	Code Stress	Code Allow.
T15 N+	Max P						(3a) HOOP	0	71
	Max P	0	0		1.27	1.06	(18) SUST	0	71
	Cold to T1	5	2	14	1.27	1.06	(17) DISP	2	147
T15 F-	Max P						(3a) HOOP	0	71
	Max P	0	0		1.27	1.06	(18) SUST	0	71
	Cold to T1	3	14	1	1.27	1.06	(17) DISP	2	147
T15 F+	Max P						(3a) HOOP	0	71
	Max P	0	0		1.00	1.00	(18) SUST	0	71
	Cold to T1	4	13	1	1.00	1.00	(17) DISP	2	147
T16 N-	Max P						(3a) HOOP	0	71
	Max P	0	0		1.00	1.00	(18) SUST	0	71
	Cold to T1	8	15	1	1.00	1.00	(17) DISP	2	147
T16 N+	Max P						(3a) HOOP	0	71
	Max P	0	0		1.27	1.06	(18) SUST	0	71
	Cold to T1	8	15	1	1.27	1.06	(17) DISP	2	147
T16 F-	Max P						(3a) HOOP	0	71
	Max P	0	0		1.27	1.06	(18) SUST	0	71
	Cold to T1	9	15	3	1.27	1.06	(17) DISP	2	147
T16 F+	Max P						(3a) HOOP	0	71
	Max P	0	0		1.00	1.00	(18) SUST	0	71
	Cold to T1	9	14	3	1.00	1.00	(17) DISP	2	147
T17	Max P						(3a) HOOP	0	71
	Max P	0	0		1.00	1.00	(18) SUST	0	71
	Cold to T1	9	14	3	1.00	1.00	(17) DISP	2	147
T19	Max P						(3a) HOOP	0	71
	Max P	0	0		1.00	1.00	(18) SUST	0	71
	Cold to T1	3	7	13	1.00	1.00	(17) DISP	2	147
T20 N-	Max P						(3a) HOOP	0	71
	Max P	0	0		1.00	1.00	(18) SUST	0	71
	Cold to T1	3	7	13	1.00	1.00	(17) DISP	2	147
T20 N+	Max P						(3a) HOOP	0	71
	Max P	0	0		1.27	1.06	(18) SUST	0	71
	Cold to T1	3	3	15	1.27	1.06	(17) DISP	2	147
T20 F-	Max P						(3a) HOOP	0	71
	Max P	0	0		1.27	1.06	(18) SUST	0	71
	Cold to T1	0	15	0	1.27	1.06	(17) DISP	2	147
T20 F+	Max P						(3a) HOOP	0	71
	Max P	0	0		1.00	1.00	(18) SUST	0	71
	Cold to T1	0	15	0	1.00	1.00	(17) DISP	2	147

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ASME B31.3b (2001) CODE COMPLIANCE									
Point name	Load combination	(Moments in Nm)			S.I.F		(Stress in N/mm2)		
		In-Pl. Moment	Out-Pl. Moment	Torsion Moment	In	Out	Eq. Load no. type	Code Stress	Code Allow.
T21 N-	Max P						(3a) HOOP	0	71
	Max P	0	0		1.00	1.00	(18) SUST	0	71
	Cold to T1	5	16	0	1.00	1.00	(17) DISP	2	147
T21 N+	Max P						(3a) HOOP	0	71
	Max P	0	0		1.27	1.06	(18) SUST	0	71
	Cold to T1	5	16	0	1.27	1.06	(17) DISP	2	147
T21 F-	Max P						(3a) HOOP	0	71
	Max P	0	0		1.27	1.06	(18) SUST	0	71
	Cold to T1	1	1	16	1.27	1.06	(17) DISP	2	147
T21 F+	Max P						(3a) HOOP	0	71
	Max P	0	0		1.00	1.00	(18) SUST	0	71
	Cold to T1	1	1	16	1.00	1.00	(17) DISP	2	147
T22 N-	Max P						(3a) HOOP	0	71
	Max P	0	0		1.00	1.00	(18) SUST	0	71
	Cold to T1	62	2	16	1.00	1.00	(17) DISP	7	147
T22 N+	Max P						(3a) HOOP	0	71
	Max P	0	0		1.27	1.06	(18) SUST	0	71
	Cold to T1	8	61	16	1.27	1.06	(17) DISP	7	147
T22 F-	Max P						(3a) HOOP	0	71
	Max P	0	0		1.27	1.06	(18) SUST	0	71
	Cold to T1	7	10	67	1.27	1.06	(17) DISP	7	147
T22 F+	Max P						(3a) HOOP	0	71
	Max P	0	0		1.00	1.00	(18) SUST	0	71
	Cold to T1	10	6	67	1.00	1.00	(17) DISP	7	147
T23	Max P						(3a) HOOP	0	71
	Max P	0	0		1.00	1.00	(18) SUST	0	71
	Cold to T1	10	6	67	1.00	1.00	(17) DISP	7	147
T24 N-	Max P						(3a) HOOP	0	71
	Max P	0	0		1.00	1.00	(18) SUST	0	71
	Cold to T1	17	1	67	1.00	1.00	(17) DISP	8	147
T24 N+	Max P						(3a) HOOP	0	71
	Max P	0	0		1.27	1.06	(18) SUST	0	71
	Cold to T1	17	1	67	1.27	1.06	(17) DISP	8	147
T24 F-	Max P						(3a) HOOP	0	71
	Max P	0	0		1.27	1.06	(18) SUST	0	71
	Cold to T1	22	66	6	1.27	1.06	(17) DISP	8	147
T24 F+	Max P						(3a) HOOP	0	71
	Max P	0	0		1.00	1.00	(18) SUST	0	71
	Cold to T1	66	22	6	1.00	1.00	(17) DISP	8	147

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ASME B31.3b (2001) CODE COMPLIANCE									
			(Moments in Nm)			(Stress in N/mm2)			
Point name	Load combination	In-Pl. Moment	Out-Pl. Moment	Torsion Moment	S.I.F		Eq. Load no.	Load type	Code Stress Allow.
T25	Max P						(3a)	HOOP	0 71
	Max P	0	0		1.00	1.00	(18)	SUST	0 71
	Cold to T1	19	17	6	1.00	1.00	(17)	DISP	3 147
T26 N-	Max P						(3a)	HOOP	0 71
	Max P	0	0		1.00	1.00	(18)	SUST	0 71
	Cold to T1	8	14	6	1.00	1.00	(17)	DISP	2 147
T26 N+	Max P						(3a)	HOOP	0 71
	Max P	0	0		1.27	1.06	(18)	SUST	0 71
	Cold to T1	4	15	6	1.27	1.06	(17)	DISP	2 147
T26 F-	Max P						(3a)	HOOP	0 71
	Max P	0	0		1.27	1.06	(18)	SUST	0 71
	Cold to T1	1	4	16	1.27	1.06	(17)	DISP	2 147
T26 F+	Max P						(3a)	HOOP	0 71
	Max P	0	0		1.00	1.00	(18)	SUST	0 71
	Cold to T1	1	4	16	1.00	1.00	(17)	DISP	2 147
T27 N-	Max P						(3a)	HOOP	0 71
	Max P	0	0		1.00	1.00	(18)	SUST	0 71
	Cold to T1	118	9	16	1.00	1.00	(17)	DISP	13 147
T27 N+	Max P						(3a)	HOOP	0 71
	Max P	0	0		1.27	1.06	(18)	SUST	0 71
	Cold to T1	118	9	16	1.27	1.06	(17)	DISP	17 147
T27 F-	Max P						(3a)	HOOP	0 71
	Max P	0	0		1.27	1.06	(18)	SUST	0 71
	Cold to T1	124	18	8	1.27	1.06	(17)	DISP	17 147
T27 F+	Max P						(3a)	HOOP	0 71
	Max P	0	0		1.00	1.00	(18)	SUST	0 71
	Cold to T1	124	16	8	1.00	1.00	(17)	DISP	14 147
F01	Max P						(3a)	HOOP	0 71
	Max P	0	0		1.00	1.00	(18)	SUST	0 71
	Cold to T1	129	19	8	1.00	1.00	(17)	DISP	14 147
*** Segment T end *** Line #									
*** Segment U begin *** Line #									
U03	Max P						(3a)	HOOP	0 71
	Max P	0	0		1.00	1.00	(18)	SUST	0 71
	Cold to T1	2798	462	218	1.00	1.00	(17)	DISP	13 147
U00	Max P						(3a)	HOOP	0 71
	Max P	0	0		1.00	1.00	(18)	SUST	0 71
	Cold to T1	3064	503	218	1.00	1.00	(17)	DISP	14 147

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ASME B31.3b (2001) CODE COMPLIANCE									
		(Moments in Nm)			(Stress in N/mm2)				
Point name	Load combination	In-Pl. Moment	Out-Pl. Moment	Torsion Moment	S.I.F In	S.I.F Out	Eq. Load no.	Load type	Code Stress Allow.
U01 N-	Max P						(3a)	HOOP	0 71
	Max P	0	0		1.00	1.00	(18)	SUST	0 71
	Cold to T1	3065	503	218	1.00	1.00	(17)	DISP	14 147
U01 N+	Max P						(3a)	HOOP	0 71
	Max P	0	0		2.90	2.42	(18)	SUST	0 71
	Cold to T1	503	3065	218	2.90	2.42	(17)	DISP	34 147
U01 F-	Max P						(3a)	HOOP	0 71
	Max P	0	0		2.90	2.42	(18)	SUST	0 71
	Cold to T1	69	595	3878	2.90	2.42	(17)	DISP	19 147
U01 F+	Max P						(3a)	HOOP	0 71
	Max P	0	0		1.00	1.00	(18)	SUST	0 71
	Cold to T1	595	69	3878	1.00	1.00	(17)	DISP	18 147
R00	Max P						(3a)	HOOP	0 71
	Max P	0	0		1.00	1.00	(18)	SUST	0 71
	Cold to T1	2663	1351	3878	1.00	1.00	(17)	DISP	22 147
*** Segment U end *** Line #									
*** Segment V begin *** Line #									
V00	Max P						(3a)	HOOP	0 103
	Max P	0	0		1.00	1.00	(18)	SUST	0 103
	Cold to T1	3312	486	225	1.00	1.00	(17)	DISP	111 165
V01 -	Max P						(3a)	HOOP	0 103
	Max P	0	0		1.00	1.00	(18)	SUST	0 103
	Cold to T1	1430	173	225	1.00	1.00	(17)	DISP	48 165
V01 +	Max P						(3a)	HOOP	0 103
	Max P	0	0		1.00	1.00	(18)	SUST	0 103
	Cold to T1	1430	173	225	1.00	1.00	(17)	DISP	48 165
V02 -	Max P						(3a)	HOOP	0 103
	Max P	0	0		2.38	2.84	(18)	SUST	0 103
	Cold to T1	1154	127	225	2.38	2.84	(17)	DISP	92 165
V02 +	Max P						(3a)	HOOP	0 103
	Max P	0	0		2.38	2.84	(18)	SUST	0 103
	Cold to T1	1212	153	218	2.38	2.84	(17)	DISP	97 165
V03 -	Max P						(3a)	HOOP	0 103
	Max P	0	0		1.00	1.00	(18)	SUST	0 103
	Cold to T1	932	110	218	1.00	1.00	(17)	DISP	32 165
V03 +	Max P						(3a)	HOOP	0 103
	Max P	0	0		1.00	1.00	(18)	SUST	0 103
	Cold to T1	932	110	218	1.00	1.00	(17)	DISP	32 165

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ASME B31.3b (2001) CODE COMPLIANCE										
Point name	Load combination	(Moments in Nm)			S.I.F		(Stress in N/mm2)			
		In-Pl. Moment	Out-Pl. Moment	Torsion Moment	In	Out	Eq. Load no. type	Code Stress	Code Allow.	
V04	Max P						(3a) HOOP	0	103	
	Max P	0	0		1.00	1.00	(18) SUST	0	103	
	Cold to T1	33	28	218	1.00	1.00	(17) DISP	7	165	
V07	Max P						(3a) HOOP	0	103	
	Max P	0	0		1.00	1.00	(18) SUST	0	103	
	Cold to T1	602	126	218	1.00	1.00	(17) DISP	22	165	
V08	Max P						(3a) HOOP	0	103	
	Max P	0	0		1.00	1.00	(18) SUST	0	103	
	Cold to T1	1269	228	218	1.00	1.00	(17) DISP	43	165	
V09	Max P						(3a) HOOP	0	71	
	Max P	0	0		1.00	1.00	(18) SUST	0	71	
	Cold to T1	1696	293	218	1.00	1.00	(17) DISP	57	147	
U03	Max P						(3a) HOOP	0	71	
	Max P	0	0		1.00	1.00	(18) SUST	0	71	
	Cold to T1	2798	462	218	1.00	1.00	(17) DISP	94	147	
*** Segment V end *** Line #										
*** Segment W begin *** Line #										
V02	Max P						(3a) HOOP	0	103	
	Max P	0	0		2.38	2.84	(18) SUST	0	103	
	Cold to T1	58	7	26	2.38	2.84	(17) DISP	8	165	
W01	Max P						(3a) HOOP	0	103	
	Max P	0	0		1.00	1.00	(18) SUST	0	103	
	Cold to T1	55	9	26	1.00	1.00	(17) DISP	4	165	
W02 N-	Max P						(3a) HOOP	0	103	
	Max P	0	0		1.00	1.00	(18) SUST	0	103	
	Cold to T1	47	18	26	1.00	1.00	(17) DISP	3	165	
W02 N+	Max P						(3a) HOOP	0	103	
	Max P	0	0		2.77	2.31	(18) SUST	0	103	
	Cold to T1	18	47	26	2.77	2.31	(17) DISP	7	165	
W02 F-	Max P						(3a) HOOP	0	103	
	Max P	0	0		2.77	2.31	(18) SUST	0	103	
	Cold to T1	17	20	48	2.77	2.31	(17) DISP	5	165	
W02 F+	Max P						(3a) HOOP	0	103	
	Max P	0	0		1.00	1.00	(18) SUST	0	103	
	Cold to T1	17	20	48	1.00	1.00	(17) DISP	3	165	
W03 N-	Max P						(3a) HOOP	0	103	
	Max P	0	0		1.00	1.00	(18) SUST	0	103	
	Cold to T1	6	29	48	1.00	1.00	(17) DISP	3	165	

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ASME B31.3b (2001) CODE COMPLIANCE									
Point name	Load combination	(Moments in Nm)			S.I.F		(Stress in N/mm2)		
		In-Pl. Moment	Out-Pl. Moment	Torsion Moment	In	Out	Eq. Load no. type	Code Stress	Code Allow.
W03 N+	Max P						(3a) HOOP	0	103
	Max P	0	0	2.77	2.31		(18) SUST	0	103
	Cold to T1	29	6	48	2.77	2.31	(17) DISP	6	165
W03 F-	Max P						(3a) HOOP	0	103
	Max P	0	0	2.77	2.31		(18) SUST	0	103
	Cold to T1	28	52	2	2.77	2.31	(17) DISP	9	165
W03 F+	Max P						(3a) HOOP	0	103
	Max P	0	0	1.00	1.00		(18) SUST	0	103
	Cold to T1	46	37	2	1.00	1.00	(17) DISP	4	165
W04 N-	Max P						(3a) HOOP	0	103
	Max P	0	0	1.00	1.00		(18) SUST	0	103
	Cold to T1	73	19	2	1.00	1.00	(17) DISP	4	165
W04 N+	Max P						(3a) HOOP	0	103
	Max P	0	0	2.77	2.31		(18) SUST	0	103
	Cold to T1	73	19	2	2.77	2.31	(17) DISP	12	165
W04 F-	Max P						(3a) HOOP	0	103
	Max P	0	0	2.77	2.31		(18) SUST	0	103
	Cold to T1	81	1	15	2.77	2.31	(17) DISP	13	165
W04 F+	Max P						(3a) HOOP	0	103
	Max P	0	0	1.00	1.00		(18) SUST	0	103
	Cold to T1	81	1	15	1.00	1.00	(17) DISP	5	165
W05 N-	Max P						(3a) HOOP	0	103
	Max P	0	0	1.00	1.00		(18) SUST	0	103
	Cold to T1	108	28	15	1.00	1.00	(17) DISP	7	165
W05 N+	Max P						(3a) HOOP	0	103
	Max P	0	0	2.77	2.31		(18) SUST	0	103
	Cold to T1	28	108	15	2.77	2.31	(17) DISP	16	165
W05 F-	Max P						(3a) HOOP	0	103
	Max P	0	0	2.77	2.31		(18) SUST	0	103
	Cold to T1	27	12	111	2.77	2.31	(17) DISP	8	165
W05 F+	Max P						(3a) HOOP	0	103
	Max P	0	0	1.00	1.00		(18) SUST	0	103
	Cold to T1	27	12	111	1.00	1.00	(17) DISP	7	165
W06 N-	Max P						(3a) HOOP	0	103
	Max P	0	0	1.00	1.00		(18) SUST	0	103
	Cold to T1	2	7	111	1.00	1.00	(17) DISP	7	165
W06 N+	Max P						(3a) HOOP	0	103
	Max P	0	0	2.77	2.31		(18) SUST	0	103
	Cold to T1	7	2	111	2.77	2.31	(17) DISP	7	165

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ASME B31.3b (2001) CODE COMPLIANCE										
Point name	Load combination	(Moments in Nm)			(Stress in N/mm2)			Eq. Load no. type	Code Stress	Code Allow.
		In-Pl. Moment	Out-Pl. Moment	Torsion Moment	S.I.F In	S.I.F Out				
W06 F-	Max P						(3a) HOOP		0	103
	Max P	0	0		2.77	2.31	(18) SUST		0	103
	Cold to T1	7	106	6	2.77	2.31	(17) DISP		15	165
W06 F+	Max P						(3a) HOOP		0	103
	Max P	0	0		1.00	1.00	(18) SUST		0	103
	Cold to T1	106	7	6	1.00	1.00	(17) DISP		6	165
W07 N-	Max P						(3a) HOOP		0	103
	Max P	0	0		1.00	1.00	(18) SUST		0	103
	Cold to T1	79	11	6	1.00	1.00	(17) DISP		5	165
W07 N+	Max P						(3a) HOOP		0	103
	Max P	0	0		2.77	2.31	(18) SUST		0	103
	Cold to T1	11	79	6	2.77	2.31	(17) DISP		11	165
W07 F-	Max P						(3a) HOOP		0	103
	Max P	0	0		2.77	2.31	(18) SUST		0	103
	Cold to T1	11	11	75	2.77	2.31	(17) DISP		5	165
W07 F+	Max P						(3a) HOOP		0	103
	Max P	0	0		1.00	1.00	(18) SUST		0	103
	Cold to T1	11	11	75	1.00	1.00	(17) DISP		5	165
W08 -	Max P						(3a) HOOP		0	103
	Max P	0	0		1.00	1.00	(18) SUST		0	103
	Cold to T1	15	8	75	1.00	1.00	(17) DISP		5	165
W08 +	Max P						(3a) HOOP		0	103
	Max P	0	0		1.00	1.00	(18) SUST		0	103
	Cold to T1	15	8	75	1.00	1.00	(17) DISP		5	165
W09	Max P						(3a) HOOP		0	103
	Max P	0	0		1.00	1.00	(18) SUST		0	103
	Cold to T1	17	6	75	1.00	1.00	(17) DISP		5	165
*** Segment W end *** Line #										
*** Segment X begin *** Line #										
*** Segment X end *** Line #										
*** Segment Y begin *** Line #										
Y00	Max P						(3a) HOOP		0	103
	Max P	0	0		1.00	1.00	(18) SUST		0	103
	Cold to T1	3280	949	216	1.00	1.00	(17) DISP		102	165
X01 -	Max P						(3a) HOOP		0	103
	Max P	0	0		2.21	2.62	(18) SUST		0	103
	Cold to T1	816	2808	216	2.21	2.62	(17) DISP		225	165**
	with Sus. load margin						(17)		225	268

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ASME B31.3b (2001) CODE COMPLIANCE									
			(Moments in Nm)			(Stress in N/mm2)			
Point	Load	In-Pl.	Out-Pl.	Torsion	S.I.F		Eq. Load	Code	Code
name	combination	Moment	Moment	Moment	In	Out	no. type	Stress	Allow.
X01	+ Max P						(3a) HOOP	0	103
	Max P	0	0		2.21	2.62	(18) SUST	0	103
	Cold to T1	816	2808	216	2.21	2.62	(17) DISP	225	165**
	with Sus. load margin						(17)	225	268
Y02	Max P						(3a) HOOP	0	103
	Max P	0	0		1.00	1.00	(18) SUST	0	103
	Cold to T1	1548	459	216	1.00	1.00	(17) DISP	48	165
Y03	- Max P						(3a) HOOP	0	103
	Max P	0	0		2.21	2.62	(18) SUST	0	103
	Cold to T1	1294	387	216	2.21	2.62	(17) DISP	91	165
Y03	+ Max P						(3a) HOOP	0	103
	Max P	0	0		2.21	2.62	(18) SUST	0	103
	Cold to T1	1347	388	244	2.21	2.62	(17) DISP	94	165
Y04	Max P						(3a) HOOP	0	103
	Max P	0	0		1.00	1.00	(18) SUST	0	103
	Cold to T1	1088	313	244	1.00	1.00	(17) DISP	34	165
Y05	Max P						(3a) HOOP	0	103
	Max P	0	0		1.00	1.00	(18) SUST	0	103
	Cold to T1	255	69	244	1.00	1.00	(17) DISP	11	165
Y08	Max P						(3a) HOOP	0	103
	Max P	0	0		1.00	1.00	(18) SUST	0	103
	Cold to T1	332	103	244	1.00	1.00	(17) DISP	13	165
Y09	Max P						(3a) HOOP	0	103
	Max P	0	0		1.00	1.00	(18) SUST	0	103
	Cold to T1	950	283	244	1.00	1.00	(17) DISP	30	165
Y10	Max P						(3a) HOOP	0	71
	Max P	0	0		1.00	1.00	(18) SUST	0	71
	Cold to T1	1345	399	244	1.00	1.00	(17) DISP	35	147
R08	Max P						(3a) HOOP	0	71
	Max P	0	0		1.00	1.00	(18) SUST	0	71
	Cold to T1	2611	769	244	1.00	1.00	(17) DISP	68	147
*** Segment Y end *** Line #									
*** Segment Z begin *** Line #									
Y03	Max P						(3a) HOOP	0	103
	Max P	0	0		2.21	2.62	(18) SUST	0	103
	Cold to T1	53	28	1	2.21	2.62	(17) DISP	7	165
Z01	Max P						(3a) HOOP	0	103
	Max P	0	0		1.00	1.00	(18) SUST	0	103
	Cold to T1	49	32	1	1.00	1.00	(17) DISP	3	165

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ASME B31.3b (2001) CODE COMPLIANCE										
		(Moments in Nm)			(Stress in N/mm2)					
Point name	Load combination	In-Pl. Moment	Out-Pl. Moment	Torsion Moment	S.I.F		Eq. Load no.	Load type	Code Stress	Code Allow.
					In	Out				
Z02 N-	Max P						(3a)	HOOP	0	103
	Max P	0	0		1.00	1.00	(18)	SUST	0	103
	Cold to T1	38	43	1	1.00	1.00	(17)	DISP	3	165
Z02 N+	Max P						(3a)	HOOP	0	103
	Max P	0	0		2.64	2.20	(18)	SUST	0	103
	Cold to T1	43	38	1	2.64	2.20	(17)	DISP	8	165
Z02 F-	Max P						(3a)	HOOP	0	103
	Max P	0	0		2.64	2.20	(18)	SUST	0	103
	Cold to T1	43	4	34	2.64	2.20	(17)	DISP	7	165
Z02 F+	Max P						(3a)	HOOP	0	103
	Max P	0	0		1.00	1.00	(18)	SUST	0	103
	Cold to T1	43	4	34	1.00	1.00	(17)	DISP	3	165
Z03 N-	Max P						(3a)	HOOP	0	103
	Max P	0	0		1.00	1.00	(18)	SUST	0	103
	Cold to T1	29	8	34	1.00	1.00	(17)	DISP	3	165
Z03 N+	Max P						(3a)	HOOP	0	103
	Max P	0	0		2.65	2.21	(18)	SUST	0	103
	Cold to T1	8	29	34	2.65	2.21	(17)	DISP	4	165
Z03 F-	Max P						(3a)	HOOP	0	103
	Max P	0	0		2.65	2.21	(18)	SUST	0	103
	Cold to T1	7	39	24	2.65	2.21	(17)	DISP	5	165
Z03 F+	Max P						(3a)	HOOP	0	103
	Max P	0	0		1.00	1.00	(18)	SUST	0	103
	Cold to T1	37	14	24	1.00	1.00	(17)	DISP	3	165
Z04 N-	Max P						(3a)	HOOP	0	103
	Max P	0	0		1.00	1.00	(18)	SUST	0	103
	Cold to T1	71	11	24	1.00	1.00	(17)	DISP	4	165
Z04 N+	Max P						(3a)	HOOP	0	103
	Max P	0	0		2.65	2.21	(18)	SUST	0	103
	Cold to T1	71	11	24	2.65	2.21	(17)	DISP	11	165
Z04 F-	Max P						(3a)	HOOP	0	103
	Max P	0	0		2.65	2.21	(18)	SUST	0	103
	Cold to T1	81	19	15	2.65	2.21	(17)	DISP	12	165
Z04 F+	Max P						(3a)	HOOP	0	103
	Max P	0	0		1.00	1.00	(18)	SUST	0	103
	Cold to T1	81	19	15	1.00	1.00	(17)	DISP	5	165
Z05 N-	Max P						(3a)	HOOP	0	103
	Max P	0	0		1.00	1.00	(18)	SUST	0	103
	Cold to T1	117	18	15	1.00	1.00	(17)	DISP	7	165

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ASME B31.3b (2001) CODE COMPLIANCE										
Point name	Load combination	(Moments in Nm)			(Stress in N/mm2)					
		In-Pl. Moment	Out-Pl. Moment	Torsion Moment	S.I.F		Eq. Load no. type	Code Stress	Code Allow.	
					In	Out				
Z05 N+	Max P						(3a)	HOOP	0	103
	Max P	0	0		2.65	2.21	(18)	SUST	0	103
	Cold to T1	18	117	15	2.65	2.21	(17)	DISP	15	165
Z05 F-	Max P						(3a)	HOOP	0	103
	Max P	0	0		2.65	2.21	(18)	SUST	0	103
	Cold to T1	16	20	121	2.65	2.21	(17)	DISP	8	165
Z05 F+	Max P						(3a)	HOOP	0	103
	Max P	0	0		1.00	1.00	(18)	SUST	0	103
	Cold to T1	16	20	121	1.00	1.00	(17)	DISP	7	165
Z06 N-	Max P						(3a)	HOOP	0	103
	Max P	0	0		1.00	1.00	(18)	SUST	0	103
	Cold to T1	20	46	121	1.00	1.00	(17)	DISP	7	165
Z06 N+	Max P						(3a)	HOOP	0	103
	Max P	0	0		2.65	2.21	(18)	SUST	0	103
	Cold to T1	46	20	121	2.65	2.21	(17)	DISP	10	165
Z06 F-	Max P						(3a)	HOOP	0	103
	Max P	0	0		2.65	2.21	(18)	SUST	0	103
	Cold to T1	46	115	26	2.65	2.21	(17)	DISP	16	165
Z06 F+	Max P						(3a)	HOOP	0	103
	Max P	0	0		1.00	1.00	(18)	SUST	0	103
	Cold to T1	115	46	26	1.00	1.00	(17)	DISP	7	165
Z07 N-	Max P						(3a)	HOOP	0	103
	Max P	0	0		1.00	1.00	(18)	SUST	0	103
	Cold to T1	81	21	26	1.00	1.00	(17)	DISP	5	165
Z07 N+	Max P						(3a)	HOOP	0	103
	Max P	0	0		2.65	2.21	(18)	SUST	0	103
	Cold to T1	21	81	26	2.65	2.21	(17)	DISP	11	165
Z07 F-	Max P						(3a)	HOOP	0	103
	Max P	0	0		2.65	2.21	(18)	SUST	0	103
	Cold to T1	21	32	75	2.65	2.21	(17)	DISP	7	165
Z07 F+	Max P						(3a)	HOOP	0	103
	Max P	0	0		1.00	1.00	(18)	SUST	0	103
	Cold to T1	32	21	75	1.00	1.00	(17)	DISP	5	165
Z08	Max P						(3a)	HOOP	0	103
	Max P	0	0		1.00	1.00	(18)	SUST	0	103
	Cold to T1	37	25	75	1.00	1.00	(17)	DISP	5	165
Z09	Max P						(3a)	HOOP	0	103
	Max P	0	0		1.00	1.00	(18)	SUST	0	103
	Cold to T1	39	20	75	1.00	1.00	(17)	DISP	5	165

*** Segment Z end *** Line #

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S Y S T E M S U M M A R Y

Maximum displacements (mm)

Maximum X :	80.268	Point : T22 F	Load Comb.: T1
Maximum Y :	44.275	Point : D05 F	Load Comb.: T1
Maximum Z :	-228.901	Point : A01	Load Comb.: T1
Max. total:	228.994	Point : A01	Load Comb.: T1

Maximum rotations (deg)

Maximum X :	0.809	Point : D14 N	Load Comb.: T1
Maximum Y :	-1.174	Point : D11 F	Load Comb.: T1
Maximum Z :	0.456	Point : D05 N	Load Comb.: T1
Max. total:	1.420	Point : D12 N	Load Comb.: T1

Maximum restraint forces (N)

Maximum X :	14545	Point : O02	Load Comb.: T1
Maximum Y :	4102	Point : L02	Load Comb.: T1
Maximum Z :	-5126	Point : L02	Load Comb.: T1
Max. total:	15929	Point : L02	Load Comb.: T1

Maximum restraint moments (Nm)

Maximum X :	5565	Point : L02	Load Comb.: T1
Maximum Y :	11335	Point : L02	Load Comb.: T1
Maximum Z :	1560	Point : E00	Load Comb.: T1
Max. total:	12644	Point : L02	Load Comb.: T1

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S Y S T E M S U M M A R Y

Maximum pipe forces (N)

Maximum X :	14545	Point : K05	Load Comb.: T1
Maximum Y :	4596	Point : H04	Load Comb.: T1
Maximum Z :	5138	Point : H05	Load Comb.: T1
Max. total:	15929	Point : J05	Load Comb.: T1

Maximum pipe moments (Nm)

Maximum X :	5565	Point : L02	Load Comb.: T1
Maximum Y :	11335	Point : L02	Load Comb.: T1
Maximum Z :	3745	Point : E04 F	Load Comb.: T1
Max. total:	12644	Point : L02	Load Comb.: T1

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S Y S T E M S U M M A R Y

Maximum displacement stress

Point : X01
Stress N/mm2 : 225
Allowable N/mm2 : 268
Ratio : 0.84
Load combination : Cold to T1

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S Y S T E M S U M M A R Y

Maximum displacement stress ratio

Point	:	J06
Stress	N/mm2	: 146
Allowable	N/mm2	: 147
Ratio	:	0.99
Load combination	:	Cold to T1

* * * The system satisfies ASME B31.3 code requirements * * *
* * * for the selected options * * *