

Version 3.4.05-X Rel. APR84

AP600

++ DST/PIPESTRESS ++

CALCULATION NUMBER 1 CODE SECTION III CLASS 2 ASME-1982 REV A89 LHE 3/30/95  
 SGS-PLA-04A; MAIN STEAM B; RUN #19 TIME\* 14:04:58

LOADING CASE NO. 10 DESGN WGT ANALYSIS - DW

POINT	GLOBAL DISPLACEMENTS IN INCHES			ROTATIONS IN RADIANS*1000.		
	D(X)	D(Y)	D(Z)	R(X)	R(Y)	R(Z)
7000	0.000	0.004	-0.011	0.01409	-0.00003	-0.00064
7001	0.000	0.004	-0.011	0.01409	-0.00003	-0.00064
7002	0.000	0.002	-0.011	0.01409	-0.00003	-0.00064
7003	0.000	0.001	-0.010	0.01409	-0.00003	-0.00064
7004	0.000	0.000	-0.010	0.01409	-0.00003	-0.00064
7096	0.000	0.000	0.000	-0.00024	0.00000	-0.00001
7004	0.000	0.000	-0.010	0.01409	-0.00003	-0.00064
7005	0.000	0.000	-0.010	0.01387	-0.00003	-0.00062
7006	0.000	-0.001	-0.010	0.01387	-0.00003	-0.00062
7007	0.000	-0.001	-0.010	0.01387	-0.00003	-0.00062
7008	0.000	-0.004	-0.011	0.01387	-0.00003	-0.00062
7009	0.000	-0.006	-0.011	0.01387	-0.00003	-0.00062
7005	0.000	0.000	-0.010	0.01387	-0.00003	-0.00062
7010	0.000	0.000	-0.009	0.01387	-0.00003	-0.00062
7011	0.000	0.000	-0.007	0.03486	-0.02215	-0.00090
7012	0.000	0.001	-0.007	0.03496	-0.02215	-0.00090
7005	0.000	0.000	-0.010	0.01387	-0.00003	-0.00062
7016	0.000	0.000	-0.009	0.01387	-0.00003	-0.00062
7017	0.000	0.000	-0.007	0.03514	0.02193	-0.00043
7018	-0.001	0.001	-0.007	0.03514	0.02193	-0.00043
7005	0.000	0.000	-0.010	0.01387	-0.00003	-0.00062
7022	0.000	0.000	-0.011	0.01387	-0.00003	-0.00062
7023	0.000	0.000	-0.009	-0.00357	0.02282	0.00345
7024	-0.001	0.000	-0.008	-0.00357	0.02282	0.00345
7005	0.000	0.000	-0.010	0.01387	-0.00003	-0.00062
7028	0.000	0.000	-0.011	0.01387	-0.00003	-0.00062
7029	0.000	0.000	-0.008	-0.00251	-0.03351	-0.00398
7030	0.000	0.000	-0.008	-0.00251	-0.03351	-0.00398
7004	0.000	0.000	-0.010	0.01409	-0.00003	-0.00064
7083	0.000	0.000	-0.011	0.01409	-0.00003	-0.00064
7084	0.000	0.000	-0.012	0.03416	-0.00019	-0.00238
7085	0.000	0.000	-0.013	0.06867	-0.00051	-0.00528
7086	-0.001	0.000	-0.018	0.15559	-0.00159	-0.01219
7087	-0.001	0.000	-0.025	0.20634	-0.00260	-0.01495
7088	-0.002	0.001	-0.030	0.22858	-0.00313	-0.01484
7089	-0.002	-0.004	-0.041	0.27752	-0.00144	-0.00621
7090	-0.002	-0.006	-0.042	0.28587	-0.00003	-0.00383
7091	-0.002	-0.012	-0.046	0.29937	0.00131	0.00099

RE= 6

RE= 2

RE= 2

RE= 2

RE= 2

9809300122 980925  
 PDR ADDCK 05200003  
 A

Enclosure 1

++ DST/PIPESTRESS ++

AP600

Version 3.4.05-X

Rev. APR84

CALCULATION NUMBER 1 CODE SECTION III CLASS 2 ASME-1989 REV A89 LHE  
 SGS-PLA-04A; MAIN STEAM B; RUN #19

TIME= 14:04:58 3/30/95

LOADING CASE NO. 10 DESGN WGHT ANALYSIS - DW

POINT	GLOBAL DISPLACEMENTS IN INCHES			ROTATIONS IN RADIAN*1000.			
	D(X)	D(Y)	D(Z)	R(X)	R(Y)	R(Z)	
7092	-0.002	-0.014	-0.048	0.30568	0.00211	0.00281	
7093	-0.002	-0.016	-0.050	0.31240	0.00303	0.00485	
7094	-0.002	-0.018	-0.051	0.32098	0.00426	0.00720	
7095	-0.002	-0.020	-0.053	0.32476	0.00483	0.00820	
7096	-0.002	-0.020	-0.069	0.32476	0.00483	0.00820	
7069	-0.002	-0.017	-0.069	0.32476	0.00483	0.00820	
7070	-0.002	-0.009	-0.069	0.32476	0.00483	0.00820	RE= 1
7069	-0.002	-0.017	-0.069	0.32476	0.00483	0.00820	
7072	-0.002	-0.018	-0.068	0.32476	0.00483	0.00820	RE= 1
7062	-0.002	-0.020	-0.069	0.32476	0.00483	0.00820	
7061	-0.002	-0.020	-0.077	0.32476	0.00483	0.00820	
7060	-0.002	-0.013	-0.077	0.31999	0.00687	0.01086	
7059	-0.002	-0.007	-0.077	0.31323	0.00836	0.01358	
7044	-0.002	-0.002	-0.077	0.31288	0.00947	0.01371	
7056	-0.002	0.004	-0.077	0.31288	0.00947	0.01371	
7057	-0.003	0.016	-0.077	0.31288	0.00947	0.01371	
7058	-0.003	0.023	0.077	0.31288	0.00947	0.01371	
7062	-0.002	-0.020	-0.069	0.32476	0.00483	0.00820	
7068	-0.002	-0.021	-0.076	0.32476	0.00483	0.00820	
7067	-0.002	-0.014	-0.076	0.32137	0.00182	-0.00129	
7066	-0.002	-0.007	-0.076	0.31502	-0.00141	-0.01106	
7055	-0.002	-0.003	-0.077	0.31465	-0.00155	-0.01147	
7063	-0.002	0.002	-0.077	0.31465	-0.00155	-0.01147	
7064	-0.002	0.015	-0.077	0.31465	-0.00155	-0.01147	
7065	-0.002	0.023	-0.077	0.31465	-0.00155	-0.01147	
7062	-0.002	-0.020	-0.069	0.32476	0.00483	0.00820	
7074	-0.002	-0.044	-0.070	0.32383	0.00487	0.00851	
7075	-0.001	-0.049	-0.070	0.32375	0.00487	0.00858	
7076	0.000	-0.124	-0.074	0.31567	0.00380	0.01234	RE= 1 SN= 1
7077	0.000	-0.135	-0.074	0.31467	0.00351	0.01292	
7078	0.000	-0.166	-0.075	0.31217	0.00290	0.01453	
7079	0.000	-0.194	-0.076	0.31154	0.00281	0.01503	
7080	0.001	-0.275	-0.076	0.31042	0.00307	0.01651	
7023	0.000	0.000	-0.008	-0.00357	0.02282	0.00345	
7045	0.000	0.000	-0.008	0.00248	0.02130	0.00503	
7046	0.000	0.000	-0.008	0.01589	0.01852	0.00794	
7047	0.001	-0.001	-0.013	0.15412	0.00686	0.01708	
7048	0.001	-0.001	-0.028	0.23606	0.00958	-0.01357	

++ DST/PIPESTRESS ++

AP600

Version 3.4.05-X

Rel. APR94

CALCULATION NUMBER 1 CODE SECTION III CLASS 2 ASME-1989 REV A&B LHE  
 SGS-PLA-04A; MAIN STEAM B; RUN #19

TIME= 14:04:58

3/30/95

LOADING CASE NO. 10 DESGN WGHY ANALYSIS - DW

POINT	GLOBAL DISPLACEMENTS IN INCHES			ROTATIONS IN RADIANS*1000.		
	D(X)	D(Y)	D(Z)	R(X)	R(Y)	R(Z)
7049	0.001	-0.001	-0.033	0.24888	0.00729	-0.01954
7050	0.000	-0.002	-0.039	0.26170	0.00478	-0.02323
7051	0.000	-0.002	-0.041	0.26540	0.00312	-0.02373
7052	0.000	-0.002	-0.042	0.26654	0.00257	-0.02376
7053	0.000	-0.002	-0.044	0.27133	0.00087	-0.02349
7054	-0.001	-0.002	-0.058	0.31465	-0.00155	-0.01147
7055	-0.002	-0.003	-0.077	0.31465	-0.00155	-0.01147
7029	0.000	0.000	-0.008	-0.00251	-0.02351	-0.00398
7034	0.000	0.000	-0.008	0.00372	-0.02191	-0.00553
7035	0.000	0.000	-0.008	0.01751	-0.01898	-0.00861
7036	-0.002	-0.001	-0.014	0.15925	-0.00532	-0.02751
7037	-0.003	-0.001	-0.029	0.24192	-0.00654	-0.01062
7038	-0.003	-0.001	-0.034	0.25526	-0.00429	-0.00482
7039	-0.004	-0.001	-0.040	0.26596	-0.00049	0.00097
7040	-0.003	-0.001	-0.042	0.28920	0.00184	0.00307
7041	-0.003	-0.001	-0.043	0.27013	0.00220	0.00372
7042	-0.003	-0.001	-0.045	0.27423	0.00437	0.00585
7043	-0.003	-0.002	-0.059	0.31288	0.00947	0.01371
7044	-0.002	-0.002	-0.077	0.31288	0.00947	0.01371
7080	0.001	-0.275	-0.076	0.31042	0.00307	0.01651
101	0.001	-0.275	-0.076	0.30936	0.00431	0.01870
110	-0.001	-0.259	-0.095	0.04673	0.34757	0.57862
120	-0.005	-0.253	-0.099	0.05854	0.35282	0.59371
130	-0.010	-0.245	-0.103	0.07470	0.35718	0.61030
140	-0.028	-0.214	-0.117	0.14843	0.35601	0.65077
150	-0.080	-0.124	-0.123	0.45245	0.03041	0.61480
6020	-0.047	-0.027	-0.123	0.27457	-0.37311	0.40262
6040	0.087	0.000	-0.122	0.04976	-0.84352	0.20707
160	0.089	0.001	-0.122	0.04653	-0.87032	0.19411
170	0.200	0.010	-0.022	-0.02339	-0.67269	0.00595
6050	0.200	0.010	-0.007	-0.02288	-0.54255	-0.00467
6060	0.200	0.010	0.000	-0.02262	-0.46199	-0.00948
6070	0.200	0.000	-0.024	-0.01676	0.23321	-0.02661
6080	0.200	-0.001	-0.034	-0.01574	0.17590	-0.01515
180	0.200	-0.001	-0.043	-0.01310	-0.05991	0.00387
6090	0.200	0.000	-0.019	-0.01057	-0.18846	0.00667
6091	0.200	0.000	-0.017	-0.01038	-0.18140	0.00624
190	0.200	0.000	-0.014	-0.00995	-0.16458	0.00533

RE= 1

SN= 1

RE= 1

SN= 1

VS= 1

RE= 1

RE= 2

++ DST/PIPESTRESS ++

AP600

Version 3.4.05-X Rel. APP84

CALCULATION NUMBER 1 CODE SECTION III CLASS 2 ASME-1988 REV A88 LHE TIME= 14:04:58 3/30/95  
SGS-PLA-04A; MAIN STEAM B; RUN #19

LOADING CASE NO. 10 DESGN WGHT ANALYSIS - DW

GLOBAL DISPLACEMENTS IN INCHES ROTATIONS IN RADIANS\*1000.

POINT	D(X)	D(Y)	D(Z)	R(X)	R(Y)	R(Z)
200	0.200	0.000	-0.012	-0.00876	-0.15626	0.00484
210	0.200	0.000	-0.011	-0.00957	-0.14737	0.00456
220	0.200	0.000	-0.010	-0.00938	-0.13785	0.00420
230	0.200	0.000	-0.008	-0.00919	-0.12761	0.00384
238	0.200	0.000	-0.004	-0.00825	-0.06493	0.00225
240	0.200	0.000	-0.003	-0.00787	-0.03896	0.00167
250	0.200	0.000	-0.003	-0.00704	-0.00409	0.00056
260	0.200	0.000	-0.003	-0.00621	-0.02028	-0.00034
261	0.200	0.000	-0.003	-0.00583	-0.03422	-0.00069
280	0.200	0.000	-0.009	-0.00341	-0.01077	-0.00189
290	0.200	0.000	-0.008	-0.00300	-0.01228	-0.00183
291	0.200	0.000	-0.009	-0.00281	-0.02450	-0.00193
300	0.200	0.000	-0.008	-0.00256	-0.04180	-0.00181
310	0.200	0.000	-0.007	-0.00233	-0.05858	-0.00186
315	0.196	0.000	-0.007	-0.00233	-0.05858	-0.00186
310	0.200	0.000	-0.007	-0.00233	-0.05858	-0.00186
320	0.200	0.000	-0.008	-0.00211	-0.07068	-0.00177
330	0.200	0.000	-0.003	-0.00171	-0.07555	-0.00154
340	0.200	0.000	-0.001	-0.00128	-0.06629	-0.00125
240	0.200	0.000	-0.003	-0.00787	-0.03896	0.00167
1000	0.199	0.001	-0.003	-0.00787	-0.03896	0.00167
1002	0.199	0.001	-0.003	-0.00787	-0.03896	0.00167
1003	0.199	0.001	-0.003	-0.00787	-0.03896	0.00167
1010	0.199	0.001	-0.003	-0.00787	-0.03896	0.00167
1020	0.198	0.001	-0.003	-0.00787	-0.03896	0.00167
1025	0.197	0.001	-0.003	-0.00787	-0.03896	0.00167
1020	0.198	0.001	-0.003	-0.00787	-0.03896	0.00167
1040	0.198	0.001	-0.003	-0.1004	-0.03896	0.00167
1050	0.198	0.001	-0.004	-0.01161	-0.03896	0.00167
1060	0.197	0.001	-0.004	-0.01982	-0.03896	0.00167
1070	0.197	0.001	-0.004	-0.01982	-0.03896	0.00167
1020	0.198	0.001	-0.003	-0.00787	-0.03896	0.00167
1080	0.198	0.001	-0.003	-0.00970	-0.03896	0.00167
1090	0.198	0.001	-0.003	-0.00412	-0.03896	0.00167
1100	0.197	0.001	-0.003	0.00409	-0.03896	0.00167
1110	0.197	0.001	-0.003	0.00409	-0.03896	0.00167
250	0.200	0.000	-0.003	-0.00704	-0.00409	0.00056
1120	0.200	0.001	-0.003	-0.00704	-0.00409	0.00056

RE= 1

RE= 1

RE= 6

++ DST/PIPESTRESS ++

AP600

Version 3.4.05-X Rel. APR84

CALCULATION NUMBER 1 CODE SECTION III CLASS 2 ASME-1988 REV A88 LHE  
 SGS-PLA-04A; MAIN STEAM B; RUN #19 TIME= 14:04:58 3/30/95

LOADING CASE NO. 10 DESGN WGHT ANALYSIS - DW

POINT	GLOBAL DISPLACEMENTS IN INCHES			ROTATIONS IN RADIANS*1000.		
	D(X)	D(Y)	D(Z)	R(X)	R(Y)	R(Z)
1122	0.200	0.001	-0.003	-0.00704	-0.00405	0.00056
1123	0.200	0.001	-0.003	-0.00704	-0.00405	0.00056
1130	0.200	0.001	-0.003	-0.00704	-0.00405	0.00056
1140	0.200	0.001	-0.003	-0.00704	-0.00405	0.00056
1145	0.200	0.001	-0.003	-0.00704	-0.00405	0.00056
1140	0.200	0.001	-0.003	-0.00704	-0.00405	0.00056
1160	0.200	0.001	-0.003	-0.00921	-0.00405	0.00056
1170	0.200	0.001	-0.003	-0.01079	-0.00405	0.00056
1180	0.200	0.001	-0.003	-0.01800	-0.00405	0.00056
1190	0.200	0.001	-0.003	-0.01900	-0.00405	0.00056
1140	0.200	0.001	-0.003	-0.00704	-0.00405	0.00056
1200	0.200	0.001	-0.003	-0.00487	-0.00405	0.00056
1210	0.200	0.001	-0.003	-0.00329	-0.00405	0.00056
1220	0.200	0.001	-0.003	0.00492	-0.00405	0.00056
1230	0.200	0.001	-0.003	0.00482	-0.00405	0.00056
260	0.200	0.000	-0.003	-0.00621	0.02028	-0.00034
1240	0.200	0.001	-0.003	-0.00621	0.02028	-0.00034
1242	0.200	0.001	-0.003	-0.00621	0.02028	-0.00034
1243	0.200	0.001	-0.003	-0.00621	0.02028	-0.00034
1250	0.200	0.001	-0.003	-0.00621	0.02028	-0.00034
1260	0.201	0.001	-0.003	-0.00621	0.02028	-0.00034
1265	0.201	0.001	-0.003	-0.00621	0.02028	-0.00034
1280	0.201	0.001	-0.003	-0.00621	0.02028	-0.00034
1280	0.201	0.001	-0.003	-0.00838	0.02028	-0.00034
1300	0.201	0.001	-0.003	-0.00866	0.02028	-0.00034
1310	0.201	0.001	-0.004	-0.01817	0.02028	-0.00034
1260	0.201	0.001	-0.003	-0.00621	0.02028	-0.00034
1320	0.201	0.001	-0.003	-0.00404	0.02028	-0.00034
1330	0.201	0.001	-0.003	-0.00247	0.02028	-0.00034
1340	0.201	0.001	-0.003	0.00574	0.02028	-0.00034
1350	0.201	0.001	-0.003	0.00574	0.02028	-0.00034
280	0.200	0.000	-0.009	-0.00800	-0.01228	-0.00193
4000	0.200	0.000	-0.009	-0.00300	-0.01228	-0.00193
4010	0.200	0.000	-0.008	-0.00300	-0.01228	-0.00193
4020	0.200	0.000	-0.009	-0.00300	-0.01228	-0.00193
4030	0.200	0.000	-0.009	-0.00300	-0.01228	-0.00193

++ DST/PIPESTRESS ++

AP600

Version 3.4.05-X Rel. APR84

TIME= 14:04:58 3/30/95

CALCULATION NUMBER 1 CODE SECTION III CLASS 2 ASME-1988 REV A88 LHE

SGS-PLA-04A; MAIN STEAM B; RUN #19

LOADING CASE NO. 10 DESGN WGT ANALYSIS - DW

FORCE BALANCE

POINT NO.	FX	FY	FZ	MX	MY	MZ
7000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
7004	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
7096	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
7005	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
7008	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
7012	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
7018	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
7023	0.0000002	0.0000000	0.0000001	-0.0000001	0.0000011	0.0000000
7024	-0.0000003	0.0000000	-0.0000027	0.0000000	0.0000002	0.0000000
7029	0.0000002	0.0000001	-0.0000406	0.0000000	0.0000000	-0.0000001
7030	-0.0000001	0.0000000	0.0000124	-0.0000001	0.0000007	0.0000001
7062	-0.0000134	0.0000366	0.0014124	0.0095139	0.0000788	-0.0000666
7069	0.0000088	0.0000693	0.0013628	0.0029142	-0.0001838	-0.0000387
7070	-0.0000031	0.0000142	0.0005199	-0.0000158	0.0000386	-0.0000129
7072	0.0000092	-0.0000015	0.0000872	0.0000187	0.0000025	-0.0000525
7044	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
7058	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
7055	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
7065	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
7076	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
7080	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
6020	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
6040	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
6050	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
6060	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
6070	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
6090	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
239	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
240	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
250	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
260	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
261	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
290	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
310	-0.0000006	0.0000000	0.0000000	0.0000000	-0.0000377	0.0000000
315	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
340	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
1020	0.0000060	0.0000000	-0.0000001	0.0000000	0.0000106	0.0000000
1025	-0.0000028	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

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TIME= 14:04:58 3/30/93

CALCULATION NUMBER 1 CODE SECTION III CLASS 2 ASME-1989 REV ABB LHE  
 SGS-PLA-04A; MAIN STEAM B; RUN #19

LOADING CASE NO. 10 DESGN WGHT ANALYSIS - DW

FORCE BALANCE

POINT NO.	FX	FY	FZ	MX	MY	MZ
1070	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
1110	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
1140	0.0000147	0.0000000	-0.0000001	-0.0000001	0.0000000	0.0000000
1145	-0.0000028	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
1190	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
1230	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
1260	0.0000028	0.0000000	-0.0000001	0.0000000	-0.0000082	0.0000000
1265	0.0000056	0.0000000	-0.0000001	0.0000000	0.0000000	0.0000000
1310	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
1350	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
4030	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

SUPPORTS -0.0000242 -0.0001187 -3056308.7362793

++ DST/PIPESTRESS ++

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Rel. APR84

CALCULATION NUMBER 1 CODE SECTION III CLASS 2 ASME-1989 REV A89 LHE  
 SGS-PLA-04A; MAIN STEAM B; RUN #19

TIME= 14:04:58 3/30/85

LOADING CASE NO. 10 DESGN WGHT ANALYSIS - DW

EQUATION 8 SUSTAINED LOAD

\*\*\*\*\* STRESSES IN PSI \*\*\*\*\*

LOCAL

POINT NO.	***** FORCES IN POUNDS ***			***** MOMENTS IN FOOT-POUNDS			B2	MOMENT STRESS	B1	PRES. STRESS	TOTAL STRESS	STRESS 1.5 SH
	SHEAR 1 (X)	SHEAR 2 (Y)	AXIAL (Z)	BEND. 1 (X)	BEND. 2 (Y)	TORSION (Z)						
JUNCTION 7000												
TANGENT 7000	0.	0.	111300.	0.	0.	0.	1.000	0.	0.500	0.	0.	0.000
TANGENT 7001	0.	0.	-111300.	0.	0.	0.	1.000	0.	0.500	0.	0.	0.000
TANGENT 7002	0.	0.	111300.	0.	0.	0.	1.000	0.	0.500	0.	0.	0.000
TANGENT 7003	0.	0.	-111300.	0.	0.	0.	1.000	0.	0.500	0.	0.	0.000
TANGENT 7004	0.	0.	952900.	0.	0.	0.	1.000	0.	0.500	0.	0.	0.000
TANGENT 7005	0.	0.	-952900.	0.	0.	0.	1.000	0.	0.500	0.	0.	0.000
STRUCT ELEM 7003	0.	0.	952900.	0.	0.	0.	1.000	0.	0.500	0.	0.	0.000
STRUCT ELEM 7004	0.	0.	-952900.	0.	0.	0.	1.000	0.	0.500	0.	0.	0.000
JUNCTION 7004												
JUNCTION 7004												
EQUIPMENT 7004	-158.	4209.	11330.	201113.	149.	5240.						
EQUIPMENT 7096	158.	-4209.	-11330.	-200999.	-149.	-5239.						
ANCHOR 7096												
JUNCTION 7004												
STRUCT ELEM 7004	3577.	-27202.	976085.	-877168.	2124.	57047.						
STRUCT ELEM 7005	-3577.	27202.	-976085.	916829.	3091.	-57047.						
JUNCTION 7005												
JUNCTION 7005												
TANGENT 7005	0.	0.	-713500.	0.	0.	0.	1.000	0.	0.500	0.	0.	0.000
TANGENT 7006	0.	0.	713500.	0.	0.	0.	1.000	0.	0.500	0.	0.	0.000
TANGENT 7007	0.	0.	-713500.	0.	0.	0.	1.000	0.	0.500	0.	0.	0.000
TANGENT 7008	0.	0.	713500.	0.	0.	0.	1.000	0.	0.500	0.	0.	0.000
TANGENT 7009	0.	0.	-149400.	0.	0.	0.	1.000	0.	0.500	0.	0.	0.000
TANGENT 7010	0.	0.	149400.	0.	0.	0.	1.000	0.	0.500	0.	0.	0.000
TANGENT 7011	0.	0.	-74600.	0.	0.	0.	1.000	0.	0.500	0.	0.	0.000
TANGENT 7012	0.	0.	74600.	0.	0.	0.	1.000	0.	0.500	0.	0.	0.000
JUNCTION 7005												
STRUCT ELEM 7005	-378453.	-3519.	0.	31690.	-3407701.	-6451.						
STRUCT ELEM 7010	378453.	3519.	0.	-6555.	704875.	6451.						
STRUCT ELEM 7010	-378453.	-3519.	0.	6555.	-704875.	-6451.						
STRUCT ELEM 7011	378453.	3519.	0.	0.	0.	6451.						
STRUCT ELEM 7011	-2489.	-2489.	-378453.	4562.	-4562.	0.						
STRUCT ELEM 7012	2489.	2489.	378453.	0.	0.	0.						



++ DST/PIPESTRESS ++

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CALCULATION NUMBER 1 CODE SECTION III CLASS 2 ASME-1989 REV A88 LHE  
 SGS-PLA-04A; MAIN STEAM B; RUN #19

TIME= 14:04:58 3/30/95

LOADING CASE NO. 10 DESGN WGH T ANALYSIS - DW

EQUATION 8 SUSTAINED LOAD

\*\*\*\*\* STRESSES IN PSI \*\*\*\*\*

LOCAL

POINT NO.	***** FORCES IN POUNDS ***			***** MOMENTS IN FOOT-POUNDS			MOMENT STRESS		PRES. STRESS	TOTAL STRESS	STRESS 1.5 SH	
	SHEAR 1 (X)	SHEAR 2 (Y)	AXIAL (Z)	BEND. 1 (X)	BEND. 2 (Y)	TORSION (Z)	B2	B1				
JUNCTION 7005												
STRUCT ELEM 7005	378671.	-2399.	0.	21601.	3409663.	4397.						
STRUCT ELEM 7016	-378671.	2399.	0.	-4468.	-705281.	-4397.						
STRUCT ELEM 7016	378671.	-2399.	0.	4468.	705281.	4397.						
STRUCT ELEM 7017	-378671.	2399.	0.	0.	0.	-4397.						
STRUCT ELEM 7017	1696.	-1696.	-378671.	3109.	3109.	0.						
STRUCT ELEM 7018	-1696.	1696.	378671.	0.	0.	0.						
JUNCTION 7005												
STRUCT ELEM 7005	466391.	-14295.	7305.	162377.	4093931.	-33961.						
STRUCT ELEM 7022	-466391.	14295.	-7305.	-60283.	-763068.	33961.						
STRUCT ELEM 7022	466391.	-14295.	7305.	60283.	763068.	-33961.						
STRUCT ELEM 7023	-466391.	14295.	-7305.	-33657.	105595.	33961.						
JUNCTION 7023												
JUNCTION 7023												
STRUCT ELEM 7023	-4416.	-4416.	-478163.	8094.	-8094.	0.						
STRUCT ELEM 7024	4416.	4416.	478163.	0.	0.	0.						
JUNCTION 7005												
STRUCT ELEM 7005	-466070.	-7001.	3949.	95241.	-4087654.	44518.						
STRUCT ELEM 7028	466070.	7001.	-3949.	-45241.	759083.	-44518.						
STRUCT ELEM 7028	-466070.	-7001.	3949.	45241.	-759083.	44518.						
STRUCT ELEM 7029	466070.	7001.	-3949.	-32201.	-108882.	-44518.						
JUNCTION 7029												
JUNCTION 7029												
STRUCT ELEM 7029	713.	-713.	-478171.	1307.	1307.	0.						
STRUCT ELEM 7030	-713.	713.	478171.	0.	0.	0.						
JUNCTION 7004												
TANGENT 7004	-3419.	-34515.	-22993.	676056.	-62287.	2273.	1.000	50.	0.500	0.	50.	0.002
TANGENT 7083	3419.	34515.	22993.	-429272.	37838.	-2273.	1.000	32.	0.500	0.	32.	0.001
TANGENT 7083	-3419.	-34515.	-22993.	429272.	-37838.	2273.	1.000	460.	0.500	0.	460.	0.020
TANGENT 7084	3419.	34515.	22993.	-330903.	28093.	-2273.	1.000	354.	0.500	0.	354.	0.016
TANGENT 7084	-3419.	-34515.	-22993.	330903.	-28093.	2273.	1.000	1444.	0.500	0.	1444.	0.064
TANGENT 7085	3419.	34515.	22993.	-296388.	24673.	-2273.	1.000	1293.	0.500	0.	1293.	0.057
TANGENT 7085	-3419.	-34515.	-22993.	296388.	-24673.	2273.	1.000	1283.	0.500	0.	1283.	0.057
TANGENT 7086	3419.	34515.	22993.	-182488.	13389.	-2273.	1.000	796.	0.500	0.	796.	0.035

++ DST/PIPESTRESS ++

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Version 3.4.05-X

Rel. APR84

CALCULATION NUMBER 1 CODE SECTION III CLASS 2 ASME-1988 REV A88 LHE  
 SGS-PLA-04A; MAIN STEAM B; RUN #19

TIME= 14:04:58 3/30/95

LOADING CASE NO. 10 DESGN WGHT ANALYSIS - DW

EQUATION 8 SUSTAINED LOAD

\*\*\*\*\* STRESSES IN PSI \*\*\*\*\*

LOCAL

POINT NO.	***** FORCES IN POUNDS ***			***** MOMENTS IN FOOT-POUNDS			B2	MOMENT STRESS	B1	PRES. STRESS	TOTAL STRESS	STRESS 1.5 SH
	SHEAR 1 (X)	SHEAR 2 (Y)	AXIAL (Z)	BEND.1 (X)	BEND.2 (Y)	TORSION (Z)						
TANGENT 7086	-3419.	-22115.	-22993.	182488.	-13389.	2273.	1.000	786.	0.500	0.	786.	0.035
7087	3419.	22115.	22993.	-113555.	2731.	-2273.	1.000	494.	0.500	0.	494.	0.022
TANGENT 7087	-3419.	-22115.	-22993.	113555.	-2731.	2273.	1.000	484.	0.500	0.	484.	0.022
7088	3419.	22115.	22993.	-77241.	-2884.	-2273.	1.000	336.	0.500	0.	336.	0.015
LR ELBOW 7088	-22115.	3419.	-22993.	2884.	-77241.	2273.	1.780	599.	0.500	0.	599.	0.027
7089	-1416.	-3419.	31871.	-11966.	35574.	-8643.	1.780	298.	0.500	0.	298.	0.013
LR ELBOW 7089	10124.	3419.	-22816.	11905.	-35574.	8727.	1.799	301.	0.500	0.	301.	0.013
7090	-13480.	-3419.	21009.	-12843.	43926.	-10623.	1.799	367.	0.500	0.	367.	0.016
TANGENT 7090	-3419.	13233.	-21165.	43926.	12966.	10472.	1.000	204.	0.500	0.	204.	0.009
7091	3419.	-13233.	21165.	-71949.	-20207.	-10472.	1.000	328.	0.500	0.	328.	0.015
TANGENT 7091	-3419.	13116.	-21237.	71949.	20265.	10360.	1.000	328.	0.500	0.	328.	0.015
7092	3419.	-13116.	21237.	-81732.	-22815.	-10360.	1.000	372.	0.500	0.	372.	0.017
TANGENT 7092	-3419.	13207.	-21182.	81732.	22771.	10457.	1.000	372.	0.500	0.	372.	0.017
7093	3419.	-13207.	21182.	-91068.	-25188.	-10457.	1.000	413.	0.500	0.	413.	0.018
TANGENT 7093	-3419.	13295.	-21126.	91068.	25144.	10563.	1.000	413.	0.500	0.	413.	0.018
7094	3419.	-13295.	21126.	-101801.	-27905.	-10563.	1.000	461.	0.500	0.	461.	0.021
TANGENT 7094	-3419.	13296.	-21126.	101801.	27804.	10563.	1.000	279.	0.500	0.	279.	0.012
7095	3419.	-13296.	21126.	-110119.	-30044.	-10563.	1.000	302.	0.500	0.	302.	0.013
STRUCT ELEM 7095	-3419.	-9715.	-22993.	110119.	25856.	-18592.						
7062	3419.	9715.	22993.	-69188.	-40262.	18592.						
JUNCTION 7062												
JUNCTION 7062												
STRUCT ELEM 7062	7461.	1054.	-1207972.	-803.	5685.	30.						
7069	-7461.	-1054.	1207972.	0.	0.	-30.						
JUNCTION 7069												
JUNCTION 7069												
TANGENT 7069	0.	0.	-1207972.	0.	0.	0.	1.000	0.	0.500	0.	0.	0.000
7070	0.	0.	1207972.	0.	0.	0.	1.000	0.	0.500	0.	0.	0.000
JUNCTION 7069												
STRUCT ELEM 7069	0.	6.	7535.	-30.	0.	0.						
7072	0.	-6.	-7535.	0.	0.	0.						
JUNCTION 7062												
STRUCT ELEM 7062	112299.	6940.	-1827.	-42828.	473807.	-28289.						
7061	-112299.	-6940.	1827.	13524.	340.	28289.						

++ DST/PIPESTRESS ++

AP600

Version 3.4.05-X

Rel. APR94

CALCULATION NUMBER 1 CODE SECTION III CLASS 2 ASME-1988 REV A88 LME

TIME= 14:04:58 3/30/95

SGS-PLA-04A; MAIN STEAM B; RUN #19

LOADING CASE NO. 10 DESGN WGHT ANALYSIS - DW

EQUATION 8 SUSTAINED LOAD

\*\*\*\*\* STRESSES IN PSI \*\*\*\*\*

LOAD

POINT NO.	***** FORCES IN POUNDS ***			***** MOMENTS IN FOOT-POUNDS			B2	MOMENT STRESS	B1	PRES. STRESS	TOTAL STRESS	STRESS 1.5 SH
	SHEAR 1 (X)	SHEAR 2 (Y)	AXIAL (Z)	BEND. 1 (X)	BEND. 2 (Y)	TORSION (Z)						
STRUCT ELEM 7061	-1445.	7030.	112299.	25498.	12259.	-13524.						
7060	1445.	-7030.	-112299.	-37589.	-14744.	13524.						
STRUCT ELEM 7059	-1445.	7030.	112299.	37589.	14744.	-13524.						
7058	1445.	-7030.	-112299.	-49308.	-17153.	13524.						
STRUCT ELEM 7044	-1445.	7030.	112299.	49308.	17153.	-13524.						
7044	1445.	-7030.	-112299.	-58096.	-18959.	13524.						
JUNCTION 7044												
STRUCT ELEM 7056	0.	0.	89800.	0.	0.	0.						
7056	0.	0.	-89800.	0.	0.	0.						
STRUCT ELEM 7057	0.	0.	89800.	0.	0.	0.						
7057	0.	0.	-89800.	0.	0.	0.						
STRUCT ELEM 7058	0.	0.	89800.	0.	0.	0.						
7058	0.	0.	-89800.	0.	0.	0.						
JUNCTION 7062												
STRUCT ELEM 7062	-112629.	5963.	-4350.	-90349.	-467150.	20349.						
7068	112629.	-9963.	4350.	48285.	11613.	-20349.						
STRUCT ELEM 7067	527.	10858.	-112629.	13076.	-19442.	48285.						
7067	-527.	-10858.	112629.	-31752.	20348.	-48285.						
STRUCT ELEM 7066	527.	10858.	-112629.	31752.	-20348.	48285.						
7066	-527.	-10858.	112629.	-48852.	21226.	-48285.						
STRUCT ELEM 7065	527.	10858.	-112629.	49852.	-21226.	48285.						
7065	-527.	-10858.	112629.	-63425.	21884.	-48285.						
JUNCTION 7055												
STRUCT ELEM 7063	0.	0.	89800.	0.	0.	0.						
7063	0.	0.	-89800.	0.	0.	0.						
STRUCT ELEM 7064	0.	0.	89800.	0.	0.	0.						
7064	0.	0.	-89800.	0.	0.	0.						
STRUCT ELEM 7065	0.	0.	89800.	0.	0.	0.						
7065	0.	0.	-89800.	0.	0.	0.						
JUNCTION 7062												
TANGENT 7062	3123.	4051.	-992759.	-314781.	21335.	87813.	1.000	26.	0.500	0.	26.	0.001
7074	-3123.	-4051.	992759.	290355.	-2503.	-87813.	1.000	25.	0.500	0.	25.	0.001

++ DST/PIPESTRESS ++

AP600

Version 3.4.0E-X

Rel. APR84

CALCULATION NUMBER 1 CODE SECTION III CLASS 2 ASME-1989 REV A89 LHE  
 SGS-PLA-04A; MAIN STEAM B; RUN #19

TIME= 14:04:58 3/30/95

LOADING CASE NO. 10 DESGN WGT ANALYSIS - DW

EQUATION B SUSTAINED LOAD

\*\*\*\*\* STRESSES IN PSI \*\*\*\*\*

LOCAL

POINT NO.	***** FORCES IN POUNDS ***			***** MOMENTS IN FOOT-POUNDS			B2	MOMENT STRESS	B1	PRES. STRESS	TOTAL STRESS	STRESS 1.5 SH
	SHEAR 1 (X)	SHEAR 2 (Y)	AXIAL (Z)	BEND. 1 (X)	BEND. 2 (Y)	TORSION (Z)						
TANGENT 7074	3123.	4051.	-631059.	-290355.	2503.	87813.	1.000	25.	0.500	0.	25.	0.001
7075	-3123.	-4051.	631059.	284691.	1863.	-87813.	1.000	24.	0.500	0.	24.	0.001
TANGENT 7076	3123.	4051.	-631059.	-284691.	-1863.	87813.	1.000	79.	0.500	0.	79.	0.004
7077	-3123.	-4051.	631059.	205788.	62694.	-87813.	1.000	62.	0.500	0.	62.	0.003
TANGENT 7078	-2784.	4051.	-631059.	-205788.	-62694.	87813.	1.000	62.	0.500	0.	62.	0.003
7079	2784.	-4051.	631059.	193806.	54459.	-87813.	1.000	58.	0.500	0.	58.	0.003
TANGENT 7080	-2784.	4051.	-466659.	-193806.	-54459.	87813.	1.000	58.	0.500	0.	58.	0.003
7081	2784.	-4051.	466659.	159972.	31207.	-87813.	1.000	49.	0.500	0.	49.	0.002
TANGENT 7082	-2784.	4051.	-466659.	-159972.	-31207.	87813.	1.000	22.	0.500	0.	22.	0.001
7083	2784.	-4051.	466659.	130004.	10611.	-87813.	1.000	19.	0.500	0.	19.	0.001
TANGENT 7084	-2784.	4051.	-83759.	-130004.	-10611.	87813.	1.000	19.	0.500	0.	19.	0.001
7085	2784.	-4051.	83759.	42351.	-49629.	-87813.	1.000	13.	0.500	0.	13.	0.001
JUNCTION 7023												
TANGENT 7023	-11771.	-8050.	7305.	33657.	-105595.	-45408.	1.000	252.	0.500	0.	252.	0.011
7045	11771.	8050.	-7305.	-24265.	91861.	45408.	1.000	221.	0.500	0.	221.	0.010
TANGENT 7046	-11771.	-8050.	7305.	24265.	-91861.	-45408.	1.000	1138.	0.500	0.	1138.	0.051
7047	11771.	8050.	-7305.	-21510.	87833.	45408.	1.000	1094.	0.500	0.	1094.	0.049
BEND 7048	7993.	-11771.	7368.	88187.	21510.	-44716.	1.000	1094.	0.500	0.	1094.	0.049
7049	-3783.	11771.	-10192.	-42867.	8114.	13287.	1.000	493.	0.500	0.	493.	0.022
BEND 7050	3701.	-3271.	10221.	42972.	-8114.	-12956.	1.000	493.	0.500	0.	493.	0.022
7051	2695.	3271.	-10532.	-23476.	11372.	-7524.	1.000	293.	0.500	0.	293.	0.013
TANGENT 7052	3271.	-2096.	10667.	11372.	23863.	6187.	1.000	293.	0.500	0.	293.	0.013
7053	-3271.	2096.	-10667.	-7880.	-18414.	-6187.	1.000	227.	0.500	0.	227.	0.010
TANGENT 7054	3271.	-2697.	10531.	7880.	18034.	7221.	1.000	227.	0.500	0.	227.	0.010
7055	-3271.	2697.	-10531.	-2920.	-12019.	-7221.	1.000	155.	0.500	0.	155.	0.007
TANGENT 7056	3271.	-3109.	10417.	2920.	11725.	7688.	1.000	155.	0.500	0.	155.	0.007
7057	-3271.	3109.	-10417.	-580.	-9263.	-7688.	1.000	130.	0.500	0.	130.	0.006
TANGENT 7058	-5229.	-1294.	10794.	580.	10435.	6002.	1.000	130.	0.500	0.	130.	0.006
7059	5229.	1294.	-10794.	-254.	-11750.	-6002.	1.000	143.	0.500	0.	143.	0.006
TANGENT 7060	-5229.	-2736.	10521.	254.	10834.	7530.	1.000	143.	0.500	0.	143.	0.006
7061	5229.	2736.	-10521.	-2039.	-15217.	-7530.	1.000	185.	0.500	0.	185.	0.008
TANGENT 7062	-5229.	-2726.	10524.	2039.	15224.	7515.	1.000	185.	0.500	0.	185.	0.008
7063	5229.	2726.	-10524.	-13424.	-37083.	-7515.	1.000	434.	0.500	0.	434.	0.019
TANGENT 7064	-5229.	-5790.	9201.	-13424.	33037.	18404.	1.000	18.	0.500	0.	18.	0.001
7065	5229.	5790.	-9201.	48285.	-64520.	-18404.	1.000	37.	0.500	0.	37.	0.002

++ DST/PIPESTRESS ++

AP600

Version 3.4.05-X

Re1. APR84

CALCULATION NUMBER 1 CODE SECTION III CLASS 2 ASME-1988 REV A88 LHE  
 SGS-PLA-04A; MAIN STEAM B; RUN #19

TIME= 14:04:58 3/30/95

LOADING CASE NO. 10 DESGN WGHT ANALYSIS - DW

EQUATION B SUSTAINED LOAD

\*\*\*\*\* STRESSES IN PSI \*\*\*\*\*

LOCAL

POINT NO.	***** FORCES IN POUNDS ***			***** MOMENTS IN FOOT-POUNDS			B2	MOMENT STRESS	B1	PRES. STRESS	TOTAL STRESS	STRESS 1.5 SH
	SHEAR 1 (X)	SHEAR 2 (Y)	AXIAL (Z)	BEND. 1 (X)	BEND. 2 (Y)	TORSION (Z)						
JUNCTION 7055												
JUNCTION 7029												
TANGENT 7029	12101.	-5993.	3949.	32201.	108982.	46366.	1.000	258.	0.500	0.	258.	0.011
7034	-12101.	5993.	-3949.	-25210.	-94864.	-46366.	1.000	228.	0.500	0.	228.	0.010
TANGENT 7034	12101.	-5993.	3949.	25210.	94864.	46366.	1.000	1173.	0.500	0.	1173.	0.052
7035	-12101.	5993.	-3949.	-23159.	-90723.	-46366.	1.000	1129.	0.500	0.	1129.	0.050
BEHC. 7035	5947.	12101.	4018.	-91252.	23159.	45315.	1.000	1129.	0.500	0.	1129.	0.050
7036	-3486.	-12101.	-6273.	44390.	530.	-12885.	1.000	500.	0.500	0.	500.	0.022
BEND 7036	3486.	3601.	6283.	-44427.	-530.	12757.	1.000	500.	0.500	0.	500.	0.022
7037	669.	-3601.	-7146.	22627.	9584.	7903.	1.000	279.	0.500	0.	279.	0.012
TANGENT 7037	-3601.	-285.	7171.	8584.	-23018.	-6678.	1.000	279.	0.500	0.	279.	0.012
7038	3601.	285.	-7171.	-9108.	17020.	6678.	1.000	221.	0.500	0.	221.	0.010
TANGENT 7038	-3601.	-691.	7144.	8108.	-16615.	-7632.	1.000	221.	0.500	0.	221.	0.010
7039	3601.	691.	-7144.	-7837.	9994.	7632.	1.000	160.	0.500	0.	160.	0.007
TANGENT 7039	-3601.	-1192.	7077.	7837.	-9433.	-8316.	1.000	160.	0.500	0.	160.	0.007
7040	3601.	1192.	-7077.	-6930.	6692.	8316.	1.000	138.	0.500	0.	138.	0.006
TANGENT 7040	4899.	818.	7130.	6930.	-8736.	-8133.	1.000	138.	0.500	0.	138.	0.006
7041	-4899.	-818.	-7130.	-7133.	9956.	6133.	1.000	148.	0.500	0.	148.	0.007
TANGENT 7041	4899.	-718.	7141.	7133.	-8423.	-8111.	1.000	148.	0.500	0.	148.	0.007
7042	-4899.	718.	-7141.	-6532.	12529.	8111.	1.000	176.	0.500	0.	176.	0.008
TANGENT 7042	4899.	-707.	7142.	6532.	-12541.	-6093.	1.000	176.	0.500	0.	176.	0.008
7043	-4899.	707.	-7142.	-3577.	33002.	8093.	1.000	369.	0.500	0.	369.	0.016
TANGENT 7043	4899.	-2841.	6591.	3577.	-28991.	-17724.	1.000	15.	0.500	0.	15.	0.001
7044	-4899.	2841.	-6591.	13524.	58484.	17724.	1.000	28.	0.500	0.	28.	0.001
JUNCTION 7044												
JUNCTION 7080												
INT SPRING 7080	-12759.	-2784.	4051.	87813.	-42351.	49629.						
101	12759.	2784.	-4051.	-87810.	42338.	-49629.						
BEND 101	-187.	4912.	-12759.	-8251.	64375.	87810.	1.844	2394.	0.137	1052.	3446.	0.153
110	-6225.	-4912.	187.	48516.	2718.	-30043.	1.844	1250.	0.500	3844.	5094.	0.226
TANGENT 110	6225.	4912.	-187.	-48516.	-2718.	30043.	1.000	678.	0.500	3844.	4522.	0.201
120	-5705.	-4912.	187.	43605.	8682.	-30043.	1.000	637.	0.500	3844.	4481.	0.199
TANGENT 120	5705.	4912.	-187.	-43605.	-8682.	30042.	1.000	637.	0.500	3844.	4481.	0.199
130	-5055.	-4912.	187.	37468.	15405.	-30042.	1.000	599.	0.500	3844.	4443.	0.197

++ DST/PIPESTRESS ++

AP600

Version 3.4.05-X

Rel. APR94

CALCULATION NUMBER 1 CODE SECTION III CLASS 2 ASME-1989 REV A89 LHE  
 SGS-PLA-04A; MAIN STEAM B; RUN #19

TIME= 14:04:58 3/30/95

LOADING CASE NO. 10 DESGN WGT ANALYSIS - DW

EQUATION 8 SUSTAINED LOAD

\*\*\*\*\* STRESSES IN PSI \*\*\*\*\*

LOCAL

POINT NO.	***** FORCES IN POUNDS ***			***** MOMENTS IN FOOT-POUNDS			B2	MOMENT STRESS	B1	PRES. STRESS	TOT/L STRESS	STRESS 1.5 SH
	SHEAR 1 (X)	SHEAR 2 (Y)	AXIAL (Z)	BEND. 1 (X)	BEND. 2 (Y)	TORSION (Z)						
TANGENT 130	5055.	4912.	-188.	-37468.	-15403.	30044.	1.000	599.	0.500	3844.	4443.	0.197
140	-2547.	-4912.	188.	13780.	33734.	-30044.	1.000	561.	0.500	3844.	4405.	0.196
BEND 140	2547.	4912.	-188.	-13780.	-33734.	30044.	1.844	1034.	0.500	3844.	4878.	0.217
150	-188.	-4912.	3987.	-9250.	36615.	-25514.	1.844	997.	0.500	3844.	4842.	0.215
TANGENT 150	2784.	4051.	-3987.	-11754.	-35890.	25514.	1.000	541.	0.500	3844.	4385.	0.198
6020	-2784.	-4051.	14143.	-67364.	90264.	-25514.	1.000	1371.	0.500	3844.	5215.	0.232
TANGENT 6020	-1164.	-3248.	-14143.	67364.	-90264.	25514.	1.000	1371.	0.500	3844.	5215.	0.232
6040	1164.	3248.	23503.	-8896.	69310.	-25514.	1.000	883.	0.500	3844.	4727.	0.210
TANGENT 6040	-1164.	-1033.	-23503.	8896.	-69310.	25514.	1.000	883.	0.500	3844.	4727.	0.210
160	1164.	1033.	24124.	-7664.	67921.	-25514.	1.000	866.	0.500	3844.	4710.	0.209
BEND 160	1164.	1033.	-24124.	-7664.	67921.	25514.	1.844	1597.	0.500	3844.	5441.	0.242
170	-30658.	-1033.	-1164.	17250.	167663.	-599.	1.844	3689.	0.500	3844.	7533.	0.335
TANGENT 170	-30658.	-1033.	1164.	17250.	167663.	599.	1.000	2001.	0.500	3844.	5845.	0.260
6050	31698.	1033.	-1164.	-15185.	-230019.	-599.	1.000	2736.	0.500	3844.	6581.	0.292
TANGENT 6050	-31698.	-1033.	1164.	15185.	230019.	599.	1.000	2736.	0.500	3844.	6581.	0.292
6060	32218.	1033.	-1164.	-14152.	-261978.	-599.	1.000	3114.	0.500	3844.	6958.	0.309
TANGENT 6060	18743.	-1033.	1164.	14152.	261978.	599.	1.000	3114.	0.500	3844.	6958.	0.309
6070	-6783.	1033.	-1164.	9605.	31568.	-599.	1.000	392.	0.500	3844.	4236.	0.188
TANGENT 6070	6783.	432.	1164.	-9605.	-31568.	599.	1.000	392.	0.500	3844.	4236.	0.188
1080	-4703.	-432.	-1164.	7878.	54540.	-599.	1.000	654.	0.500	3844.	4498.	0.200
TANGENT 1080	4703.	432.	1164.	-7878.	-54540.	599.	1.000	654.	0.500	3844.	4498.	0.200
180	670.	-432.	-1164.	3419.	75374.	-599.	1.000	896.	0.500	3844.	4740.	0.211
TANGENT 180	-670.	432.	1164.	-3419.	-75374.	599.	1.000	741.	0.500	2960.	3702.	0.165
6090	16546.	-432.	-1164.	-1759.	-27926.	-599.	1.000	275.	0.500	2960.	3235.	0.144
TANGENT 6090	-612.	-58.	1164.	1759.	27926.	599.	1.000	275.	0.500	2960.	3235.	0.144
6091	1826.	58.	-1164.	-1705.	-29043.	-599.	1.000	286.	0.500	2960.	3246.	0.144
TANGENT 6091	-1826.	-58.	1164.	1705.	29043.	599.	1.000	345.	0.500	3844.	4150.	0.186
190	2692.	58.	-1164.	-1608.	-32809.	-599.	1.000	390.	0.500	3844.	4234.	0.188
TANGENT 190	-2692.	-58.	1164.	1608.	32809.	599.	1.000	390.	0.500	3844.	4234.	0.188
200	3082.	58.	-1164.	-1564.	-34974.	-599.	1.000	416.	0.500	3844.	4260.	0.189
TANGENT 200	-3082.	-58.	1164.	1564.	34974.	599.	1.000	416.	0.500	3844.	4260.	0.189
210	3472.	58.	-1164.	-1521.	-37432.	-599.	1.000	445.	0.500	3844.	4289.	0.191
TANGENT 210	-3472.	-58.	1164.	1521.	37432.	599.	1.000	445.	0.500	3844.	4289.	0.191
220	3862.	58.	-1164.	-1477.	-40183.	-599.	1.000	477.	0.500	3844.	4322.	0.192

FORM 1108

++ DST/PIPESTRESS ++

AP600

Version 3.4.05-X

Rel. APR94

CALCULATION NUMBER 1 CODE SECTION III CLASS 2 ASME-1989 REV A89 LHE  
 SGS-PLA-04A; MAIN STEAM B; RUN #19

TIME= 14:04:58 3/30/95

LOADING CASE NO. 10 DESGN WGHT ANALYSIS - DW

EQUATION 8 SUSTAINED LOAD

\*\*\*\*\* STRESSES IN PSI \*\*\*\*\*

LOCAL

	POINT NO.	***** FORCES IN POUNDS ***			***** MOMENTS IN FOOT-POUNDS			B2	MOMENT STRESS	B1	PRES. STRESS	TOTAL STRESS	STRESS 1.5 SH
		SHEAR 1 (X)	SHEAR 2 (Y)	AXIAL (Z)	BEND. 1 (X)	BEND. 2 (Y)	TORSION (Z)						
TANGENT	220	-3862.	-58.	1164.	1477.	40183.	599.	1.000	477.	0.500	3844.	4322.	0.192
	230	4252.	58.	-1164.	-1433.	-43226.	-599.	1.000	513.	0.500	3844.	4358.	0.194
TANGENT	230	-4252.	-58.	1164.	1433.	43226.	599.	1.000	513.	0.500	3844.	4358.	0.194
	239	6159.	38.	-1164.	-1219.	-62315.	-599.	1.000	740.	0.500	3844.	4584.	0.204
TANGENT	239	12879.	-58.	1164.	1219.	62315.	599.	1.000	740.	0.500	3844.	4584.	0.204
	240	-12099.	58.	-1164.	-1132.	-43581.	-599.	1.000	518.	0.500	3844.	4362.	0.194
JUNCTION	240												
JUNCTION	240												
TANGENT	240	7199.	-58.	1164.	1132.	43581.	599.	1.000	518.	0.500	3844.	4362.	0.194
	250	-5509.	58.	-1164.	-942.	-22929.	-599.	1.000	272.	0.500	3844.	4117.	0.183
JUNCTION	250												
JUNCTION	250												
TANGENT	250	609.	-58.	1164.	942.	22929.	599.	1.000	272.	0.500	3844.	4117.	0.183
	260	1081.	58.	-1164.	-753.	-23695.	-599.	1.000	281.	0.500	3844.	4126.	0.183
JUNCTION	260												
JUNCTION	260												
TANGENT	260	-5981.	-58.	1164.	753.	23695.	599.	1.000	281.	0.500	3844.	4126.	0.183
	261	6761.	58.	-1164.	-665.	-33251.	-599.	1.000	395.	0.500	3844.	4239.	0.188
TANGENT	261	10234.	-58.	1164.	665.	33251.	599.	1.000	395.	0.500	3844.	4239.	0.188
	280	-5294.	58.	-1164.	-111.	40504.	-599.	1.000	481.	0.500	3844.	4325.	0.192
TANGENT	280	5294.	-58.	1164.	111.	-40504.	599.	1.000	481.	0.500	3844.	4325.	0.192
	290	-4471.	58.	-1164.	-19.	48232.	-599.	1.000	573.	0.500	3844.	4417.	0.196
JUNCTION	290												
JUNCTION	290												
TANGENT	290	4029.	-58.	1164.	19.	-48232.	599.	1.000	573.	0.500	3844.	4417.	0.196
	291	-3639.	58.	-1164.	25.	51107.	-599.	1.000	607.	0.500	3844.	4451.	0.198
TANGENT	291	3639.	-58.	1164.	-25.	-51107.	599.	1.000	607.	0.500	3844.	4451.	0.198
	300	-3119.	58.	-1164.	83.	54486.	-599.	1.000	647.	0.500	3844.	4491.	0.200
VALVE	300	3119.	-58.	1164.	-83.	-54486.	599.	1.000	647.	0.500	3844.	4491.	0.200
	310	-3119.	58.	-1164.	239.	62803.	-599.						
JUNCTION	310												
JUNCTION	310												
RIGID	310	0.	0.	-18500.	0.	0.	0.						
	315	0.	0.	18500.	0.	0.	0.						

++ DST/PIPESTRESS ++

AP600

Version 3.4.05-X

Rel. APR94

CALCULATION NUMBER 1 CODE SECTION III CLASS 2 ASME-1988 REV ADD LHE  
SGS-PLA-04A; MAIN STEAM B; RUN #19

TIME= 14:04:58 3/30/95

LOADING CASE NO. 10 DESGN WGHT ANALYSIS - JW

EQUATION 8 SUSTAINED LOAD

\*\*\*\*\* STRESSES IN PSI \*\*\*\*\*

LOCAL

POINT NO.	***** FORCES IN POUNDS ***			***** MOMENTS IN FOOT-POUNDS			B2	MOMENT STRESS	B1	PRES. STRESS	TOTAL STRESS	STRESS 1.5 SH
	SHEAR 1 (X)	SHEAR 2 (Y)	AXIAL (Z)	BEND.1 (X)	BEND.2 (Y)	TORSION (Z)						
JUNCTION VALVE	310	-15381.	-58.	1164.	-239.	-62803.	599.					
TANGENT	320	15381.	58.	-1164.	395.	21780.	-599.					
TANGENT	330	-15381.	-58.	1164.	-395.	-21780.	599.	1.000	259.	0.500	3844.	4103. 0.182
TANGENT	330	16205.	58.	-1164.	487.	-3220.	-599.	1.000	39.	0.500	3844.	3884. 0.173
TANGENT	330	-16205.	-58.	1164.	-487.	3220.	599.	1.000	39.	0.500	3844.	3884. 0.173
TANGENT	340	17071.	58.	-1164.	584.	-30956.	-599.	1.000	368.	0.500	3844.	4212. 0.187
ANCHOR JUNCTION	240											
STRUCT ELEM	240	0.	0.	-4900.	0.	0.	0.					
TANGENT	1000	0.	0.	4900.	0.	0.	0.					
TANGENT	1000	0.	0.	-4900.	0.	0.	0.	1.000	0.	0.500	1324.	1324. 0.044
TANGENT	1002	0.	0.	4877.	0.	0.	0.	1.000	0.	0.500	1324.	1324. 0.044
TANGENT	1002	0.	0.	-4877.	0.	0.	0.	1.000	0.	0.500	1324.	1324. 0.044
TANGENT	1003	0.	0.	4832.	0.	0.	0.	1.000	0.	0.500	1324.	1324. 0.044
TANGENT	1003	0.	0.	-4832.	0.	0.	0.	1.000	0.	0.500	1324.	1324. 0.044
TANGENT	1010	0.	0.	4781.	0.	0.	0.	1.000	0.	0.500	1324.	1324. 0.044
TANGENT	1010	0.	0.	-4781.	0.	0.	0.	1.000	0.	0.500	1324.	1324. 0.044
VALVE	1010	0.	0.	-4583.	0.	0.	0.					
VALVE	1020	0.	0.	4583.	0.	0.	0.					
JUNCTION RIGID	1020	0.	0.	-4000.	0.	0.	0.					
JUNCTION RIGID	1025	0.	0.	4000.	0.	0.	0.					
JUNCTION VALVE	1020	0.	292.	0.	-505.	0.	0.					
JUNCTION VALVE	1040	0.	-292.	0.	244.	0.	0.					
TANGENT	1040	0.	207.	0.	-244.	0.	0.	1.000	64.	0.500	0.	64. 0.003
TANGENT	1050	0.	-182.	0.	169.	0.	0.	1.000	45.	0.500	0.	45. 0.002
LR ELBOW	1050	-182.	0.	0.	0.	-169.	0.	2.643	118.	0.500	0.	118. 0.005
TANGENT	1060	0.	0.	54.	0.	0.	0.	2.643	0.	0.500	0.	0. 0.000
TANGENT	1060	0.	0.	-54.	0.	0.	0.	1.000	0.	0.500	0.	0. 0.000
TANGENT	1070	0.	0.	0.	0.	0.	0.	1.000	0.	0.500	0.	0. 0.000
JUNCTION VALVE	1020	0.	-292.	0.	505.	0.	0.					
JUNCTION VALVE	1080	0.	292.	0.	-244.	0.	0.					



++ DST/PIPESTRESS ++ AP600 Version 3.4.05-X Rel. APR84

CALCULATION NUMBER 1 CODE SECTION III CLASS 2 ASME--1988 REV 888 LHE TIME= 14:04:56 3/30/95  
 SGS-PLA-04A; MAIN STEAM B; RUN #19

LOADING CASE NO. 10 DESGN WGT ANALYSIS - DW

EQUATION 8 SUSTAINED LOAD

\*\*\*\*\* STRESSES IN PSI \*\*\*\*\*

LOCAL

POINT NO.	SHEAR 1 (X)	SHEAR 2 (Y)	FORCES IN POUNDS AXIAL (Z)	BEND. 1 (X)	BEND. 2 (Y)	TORSION (Z)	B2	MOMENT STRESS B1	PRES. STRESS	TOTAL STRESS	TOTAL STRESS 1.5 SH
TANGENT 1080	0.	-207.	0.	244.	0.	0.	1.000	64.	0.	64.	0.003
LR ELBOW 1090	-182.	182.	0.	-169.	0.	0.	1.000	45.	0.	45.	0.002
TANGENT 1100	0.	0.	54.	0.	-169.	0.	2.643	118.	0.	118.	0.008
TANGENT 1100	0.	0.	-54.	0.	0.	0.	2.643	0.	0.	0.	0.000
TANGENT 1110	0.	0.	0.	0.	0.	0.	1.000	0.	0.	0.	0.000
JUNCTION 250	0.	0.	0.	0.	0.	0.	1.000	0.	0.	0.	0.000
STRUCT ELEM 250	0.	0.	-4900.	0.	0.	0.	1.000	0.	0.	0.	0.000
TANGENT 1120	0.	0.	4900.	0.	0.	0.	1.000	0.	0.	0.	0.000
TANGENT 1120	0.	0.	-4900.	0.	0.	0.	1.000	0.	0.	0.	0.000
TANGENT 1122	0.	0.	4877.	0.	0.	0.	1.000	0.	0.	0.	0.000
TANGENT 1122	0.	0.	-4877.	0.	0.	0.	1.000	0.	0.	0.	0.000
TANGENT 1123	0.	0.	4832.	0.	0.	0.	1.000	0.	0.	0.	0.000
TANGENT 1123	0.	0.	-4832.	0.	0.	0.	1.000	0.	0.	0.	0.000
VALVE 1130	0.	0.	4781.	0.	0.	0.	1.000	0.	0.	0.	0.000
VALVE 1130	0.	0.	-4583.	0.	0.	0.	1.000	0.	0.	0.	0.000
VALVE 1140	0.	0.	4583.	0.	0.	0.	1.000	0.	0.	0.	0.000
JUNCTION 1140	0.	0.	0.	0.	0.	0.	1.000	0.	0.	0.	0.000
JUNCTION RIGID 1140	0.	0.	0.	0.	0.	0.	1.000	0.	0.	0.	0.000
JUNCTION VALVE 1140	0.	0.	-4000.	0.	0.	0.	1.000	0.	0.	0.	0.000
JUNCTION VALVE 1140	0.	0.	4000.	0.	0.	0.	1.000	0.	0.	0.	0.000
TANGENT 1160	0.	292.	0.	-505.	0.	0.	1.000	64.	0.	64.	0.003
TANGENT 1160	0.	-292.	0.	244.	0.	0.	1.000	45.	0.	45.	0.002
TANGENT 1170	0.	207.	0.	-244.	0.	0.	2.643	118.	0.	118.	0.008
TANGENT 1170	0.	-182.	0.	169.	0.	0.	2.643	0.	0.	0.	0.000
LR ELBOW 1180	-182.	0.	0.	0.	-169.	0.	1.000	0.	0.	0.	0.000
TANGENT 1180	0.	0.	54.	0.	0.	0.	1.000	0.	0.	0.	0.000
TANGENT 1180	0.	0.	-54.	0.	0.	0.	1.000	0.	0.	0.	0.000
JUNCTION VALVE 1190	0.	0.	0.	0.	0.	0.	1.000	0.	0.	0.	0.000
JUNCTION VALVE 1140	0.	0.	0.	0.	0.	0.	1.000	0.	0.	0.	0.000
TANGENT 1200	0.	-292.	0.	505.	0.	0.	1.000	64.	0.	64.	0.003
TANGENT 1200	0.	292.	0.	-244.	0.	0.	1.000	45.	0.	45.	0.002
TANGENT 1210	0.	-207.	0.	244.	0.	0.	1.000	0.	0.	0.	0.000
TANGENT 1210	0.	182.	0.	-169.	0.	0.	1.000	0.	0.	0.	0.000

Version 3.4.05-X Rev. APR84

APSDO

TIME= 14:04:58 3/30/95

CALCULATION NUMBER 1 CODE SECTION III CLASS 2 ASME-1988 REV A89 LHE  
 SGS-PLA-04A; MAIN STEAM B; RIN #19

LOADING CASE NO. 10 DESIGN WIGHT ANALYSIS - DW

EQUATION 8 SUSTAINED LOAD

\*\*\*\*\* STRESSES IN PSI \*\*\*\*\*

LOCAL

POINT NO.	SHEAR 1 (X)	SHEAR 2 (Y)	AXIAL (Z)	BEND 1 (X)	BEND 2 (Y)	TORSION (Z)	B2 STRESS	B1 STRESS	PRES. STRESS	TOTAL STRESS	1.5 SH
LR ELBOW	-182	0	0	0	-169	0	2,643	0,500	0	118	0,005
TANGENT	0	0	54	0	0	0	2,643	0,500	0	0	0,000
JUNCTION	0	0	-54	0	0	0	1,000	0,500	0	0	0,000
STRUCT ELEM	0	0	0	0	0	0	0	0,500	0	0	0,000
TANGENT	0	0	4900	0	0	0	1,000	0,500	1324	1324	0,044
TANGENT	0	0	4900	0	0	0	1,000	0,500	1324	1324	0,044
TANGENT	0	0	-4877	0	0	0	1,000	0,500	1324	1324	0,044
TANGENT	0	0	-4877	0	0	0	1,000	0,500	1324	1324	0,044
TANGENT	0	0	4832	0	0	0	1,000	0,500	1324	1324	0,044
TANGENT	0	0	-4832	0	0	0	1,000	0,500	1324	1324	0,044
VALVE	0	0	4711	0	0	0	1,000	0,500	1324	1324	0,044
VALVE	0	0	-4711	0	0	0	1,000	0,500	1324	1324	0,044
JUNCTION	0	0	4853	0	0	0	0	0,500	0	0	0,000
JUNCTION	0	0	4853	0	0	0	0	0,500	0	0	0,000
RIGID	0	0	0	0	0	0	0	0,500	0	0	0,000
JUNCTION	0	0	-4000	0	0	0	0	0,500	0	0	0,000
VALVE	292	0	0	-505	0	0	1,000	0,500	64	64	0,003
TANGENT	0	0	0	244	0	0	1,000	0,500	45	45	0,002
TANGENT	0	0	0	-244	0	0	1,000	0,500	45	45	0,002
LR ELBOW	-182	0	0	0	-169	0	2,643	0,500	0	118	0,005
TANGENT	0	0	54	0	0	0	2,643	0,500	0	0	0,000
TANGENT	0	0	-54	0	0	0	1,000	0,500	0	0	0,000
JUNCTION	0	0	0	0	0	0	1,000	0,500	0	0	0,000
VALVE	92	0	0	505	0	0	1,000	0,500	64	64	0,003
TANGENT	0	0	0	-244	0	0	1,000	0,500	45	45	0,002
TANGENT	0	0	0	244	0	0	1,000	0,500	45	45	0,002
LR ELBOW	-182	0	0	0	-169	0	2,643	0,500	0	118	0,005
JUNCTION	0	0	54	0	0	0	2,643	0,500	0	0	0,000
JUNCTION	0	0	-54	0	0	0	1,000	0,500	0	0	0,000

Version 3.4.05-X Rel. APR84

MP600

TIME= 14:04:56 3/30/95

CALCULATION NUMBER 1 CGDE SECTION III CLASS 2 ASME-1500 REV A88 LHE  
 SGS-PLA-04A; MAIN STEAM B; RUN #19

LOADING CASE NO. 1C DESGN WGT ANALYSIS - DW

EQUATION 8 SUSTAINED LOAD

LOCAL

\*\*\*\*\* STRESSES IN PSI \*\*\*\*\*

POINT NO.	SHEAR 1 (X)	SHEAR 2 (Y)	AXIAL (Z)	BEND 1 (X)	BEND 2 (Y)	TORSION (Z)	B2	B1	MOMENT STRESS	PRES. STRESS	TOTAL STRESS
TANGENT 1340	0.	0.	-54.	0.	0.	0.	1.000	0.	0.500	0.	0.000
1350	0.	0.	0.	0.	0.	0.	1.000	0.	0.500	0.	0.000
JUNCTION 290	0.	0.	442.	0.	0.	0.	1.000	0.	0.500	2429.	0.108
STRUCT ELEM 4000	0.	0.	-442.	0.	0.	0.	1.000	0.	0.500	2428.	0.108
TANGENT 4010	0.	0.	-396.	0.	0.	0.	1.000	0.	0.500	2429.	0.108
TANGENT 4020	0.	0.	-126.	0.	0.	0.	1.000	0.	0.500	2428.	0.108
TANGENT 4020	0.	0.	126.	0.	0.	0.	1.000	0.	0.500	2429.	0.108
4030	0.	0.	-27.	0.	0.	0.	1.000	0.	0.500	2429.	0.108

MAX STRESS RATIO = 0.335 AT POINT 170

MAX MOMENT RATIO = 0.164 AT POINT 170

++ DST/PIPESTRESS ++

AP600

Version 3.4.05-X

Rel. APR94

CALCULATION NUMBER 1 CGDE SECTION III CLASS 2 ASME-1989 REV A89 LHE  
 SGS-PLA-04A; MAIN STEAM B; RUN #19

TIME= 14:04:58 3/30/95

LOADING CASE NO. 10 DESGN WGT ANALYSIS - DW

ACTION OF ANCHORS, SUPPORTS AND RESTRAINTS ON PIPING  
 RESTRAINT RESULTANT POSITIVE IF ACTION IN SAME DIRECTION AS RESTRAINT

POINT NO.	GLOBAL FORCES IN LB			MOMENTS IN FT LB			RESULTANT FORCE	RESULTANT MOMENT	
	FX	FY	FZ	MX	MY	MZ			
ANCHOR	7096	-188.	4209.	1133.	200999.	149.	5239.	12088.	201068.
ANCHOR	340	1164.	-58.	17071.	599.	30956.	584.	17111.	30967.
RESTRAINT	7012	2489.	-2489.	0.				-3519.	
RESTRAINT	7012	0.	0.	378453.				-378453.	
RESTRAINT	7018	-1696.	-1696.	0.				2399.	
RESTRAINT	7018	0.	0.	378671.				-378671.	
RESTRAINT	7024	4416.	-4416.	0.				-6245.	
RESTRAINT	7024	0.	0.	478163.				-478163.	
RESTRAINT	7030	-713.	-713.	0.				-1008.	
RESTRAINT	7030	0.	0.	478171.				-478171.	
RESTRAINT	7070	0.	0.	1207972.				-1207972.	
RESTRAINT	7072	-7461.	1054.	0.				7535.	
RESTRAINT	7076	5907.	0.	0.				-5907.	
SNUBBER	7078	0.	0.	0.				0.	
RESTRAINT	6020	-3948.	7299.	0.				8298.	
SNUBBER	6020	0.	0.	0.				0.	
RESTRAINT	6040	0.	-2215.	0.				-2215.	
SNUBBER	6050	0.	0.	0.				0.	
VAR SUPORT	6060	0.	0.	50961.				50961.	
RESTRAINT	6070	0.	-1464.	0.				-1464.	
RESTRAINT	6090	0.	490.	0.				490.	
RESTRAINT	6090	0.	0.	19484.				19484.	
RESTRAINT	239	0.	0.	19039.				19039.	
RESTRAINT	261	0.	0.	16894.				16894.	
ALL SUPPORTS		0.	0.	3056309.					

++ DST/PIPESTRESS ++

AP600

Version 3.4.05-X

Rel. APR84

CALCULATION NUMBER 1 CODE SECTION III CLASS 2 ASME-1988 REV A&B LHE  
 SGS-PLA-04A; MAIN STEAM B; RUN #19

TIME\* 14:04:58 3/30/95

LOADING CASE NO. 10 DESGN WGHT ANALYSIS - DW

ACTION OF ANCHORS, NOZZLES AND CONNECTIONS ON PIPING  
 IN THE LOCAL COORDINATE SYSTEM OF CONNECTED PIPING (SEE PAGE NO. 16)

TYPE	POINT NO.	FORCES IN LB					MOMENTS IN FT LB				
		SHEAR 1 (X)	SHEAR 2 (Y)	AXIAL (Z)	SHEAR RSLTNT	RSLTNT FORCE	BEND. 1 (X)	BEND. 2 (Y)	TORSION (Z)	BENDING RSLTNT	RSLTNT MOMENT
ANCHOR	7096	-158.	4209.	11330.	4212.	12088.	200999.	149.	5239.	201000.	201068.
ANCHOR	340	-17071.	-88.	1164.	17072.	17111.	-584.	30956.	599.	30961.	30967.

32

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Westinghouse  
Electric Corporation

Energy Systems

Box 355  
Pittsburgh Pennsylvania 15230-0355

DCP/NRC1412  
NSD-NRC-98-5756  
Docket No.: 52-003

August 14, 1998

Document Control Desk  
U. S. Nuclear Regulatory Commission  
Washington, DC 20555

ATTENTION: T. R. Quay

SUBJECT: RESPONSE TO NRC LETTERS CONCERNING REQUEST FOR WITHHOLDING  
INFORMATION

- Reference:
1. Letter, Sebrosky to McIntyre, "Request for withholding proprietary information for Westinghouse AP600 letters dated October 10, 1994, March 30, 1995, October 3, 1996, and December 18, 1997," dated July 21, 1998.
  2. Letter, Huffman to McIntyre, "Request for withholding information from public disclosure for Westinghouse AP600 design letters," dated July 14, 1998.

Dear Mr. Quay:

Reference 1 provided the NRC comments that the Westinghouse letter of October 10, 1994, appeared to contain proprietary information that was not clearly identified other than being marked "Westinghouse Proprietary Class 2" on the page and also that there was no affidavit included with the letter. The October 10, 1994, letter contained errata for WCAP-14135, which is a proprietary report. In accordance with Westinghouse company policy, each page of a proprietary report has "Westinghouse Proprietary Class 2" on the page header. Specific information that is proprietary is then indicated with brackets. It is possible that there will be no information on a page that is marked as being proprietary. In the case of the October 10, 1994, letter, none of the errata pages contained Westinghouse proprietary information, thus no affidavit was necessary and the letter can be placed in the NRC public document room.

Reference 1 also provided the NRC comments that the Westinghouse letter of March 30, 1995, appeared to contain proprietary information that was not clearly identified other than being marked "Westinghouse Proprietary Class 2" and also that there was no affidavit included with the letter. The March 30, 1995, letter contained AP600 main steam line isometric drawings which have the standard Westinghouse title block that contains a standard Westinghouse proprietary statement which should have been deleted in this case. The deadweight analysis results had no proprietary markings. These drawings are nonproprietary, thus no affidavit was necessary and the letter can be placed in the NRC public document room.

1787-ugf

~~9808200164~~  
3/98

Enclosure 2



August 14, 1998

Reference 1 further provided the NRC comments that the Westinghouse letter of October 3, 1996, appeared to contain proprietary information that was not clearly identified other than being marked "Westinghouse Proprietary Class 2" on the page and also that there was no affidavit included with the letter. The October 3, 1996, letter contained pages that were missing from some copies of WCAP-14407, which is a proprietary report. In accordance with Westinghouse company policy, each page of a proprietary report has "Westinghouse Proprietary Class 2" on the page header. Specific information that is proprietary is then indicated with brackets. It is possible that there will be no information on a page that is marked as being proprietary. In the case of the October 3, 1996, letter, none of the missing pages contained Westinghouse proprietary information, thus no affidavit was necessary and the letter can be placed in the NRC public document room.

Reference 1 additionally provided the NRC comments that the Westinghouse letter of December 18, 1997, appeared to contain proprietary information that was not clearly identified other than being marked "Westinghouse Proprietary Class 2" on the page and also that there was no affidavit included with the letter. The December 18, 1997, letter documented NRC agreed to revisions to WCAP-14326, Revision 1, WCAP-14812, Revision 1, and WCAP-14845, Revision 2, which are Westinghouse proprietary reports. In accordance with Westinghouse company policy, each page of a proprietary report has "Westinghouse Proprietary Class 2" on the page header. Specific information that is proprietary is then indicated with brackets. It is possible that there will be no information on a page that is marked as being proprietary. In the case of the December 18, 1997, letter, none of the errata pages contained Westinghouse proprietary information, thus no affidavit was necessary and the letter can be placed in the NRC public document room.

Reference 2 provided the NRC comments that the Westinghouse letter of February 10, 1997, appeared to contain proprietary information that was not clearly identified other than being marked "Westinghouse Proprietary Class 2" and also that there was no affidavit included with the letter. The February 10, 1997, letter contained drawings which were intended to assist the staff in their understanding of the Regulatory Treatment of Nonsafety Related Systems (RTNSS) implementation for the AP600 and contained the standard Westinghouse drawing title block that includes a standard Westinghouse proprietary statement which should have been deleted in this case. These drawings are nonproprietary, thus no affidavit was necessary and the letter can be placed in the NRC public document room.

Reference 2 also provided the NRC comments that the Westinghouse letter of August 18, 1997, appeared to contain proprietary information that was not clearly identified other than being marked "Westinghouse Proprietary Class 2" on the page and also that there was no affidavit included with the letter. The August 18, 1997, letter was issued to correct a printing error in several copies of proprietary report WCAP-14727, Revision 1, that were provided to the staff in advance of the normal mailing to the NRC. WCAP-14727, Revision 1, was provided to the staff by letter DCP/NRC0979, dated August 7, 1997, which included affidavit AW-97-1150. In accordance with Westinghouse company policy, each page of a proprietary report has "Westinghouse Proprietary Class 2" on the page header. Specific information that is proprietary is then indicated with brackets. It is possible that there will be no information on a page that is marked as being proprietary. In the case of the August 18, 1997, letter, any of the pages which contained proprietary information, would have had that material bracketed and should be covered by affidavit AW-97-1150, which was dated August 11, 1997.

DCP/NRC1412  
NSD-NRC-98-5756

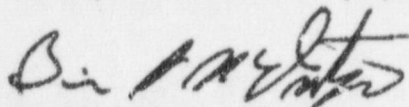
August 14, 1998

Revision 2 further provided the NRC comments that the Westinghouse letter of November 11, 1997, appeared to contain proprietary information that was not clearly identified other than being marked "Westinghouse Proprietary Class 2" on the page and also that there was no affidavit included with the letter. The November 11, 1997, letter contained Revision 3 to WCAP-14776, which is a Westinghouse proprietary report. In accordance with Westinghouse company policy, each page of a proprietary report has "Westinghouse Proprietary Class 2" on the page header. Specific information that is proprietary is then indicated with brackets. It is possible that there will be no information on a page that is marked as being proprietary. In the case of the November 11, 1997, letter it was indicated that "although the change pages contain no bracketed proprietary information, they are marked 'Westinghouse Proprietary.'" Since none of the revision pages contained Westinghouse proprietary information, no affidavit was necessary and the letter can be placed in the NRC public document room.

Revision 2 further provided the NRC comments that the Westinghouse letter of March 13, 1998, appeared to contain proprietary information that was not clearly identified other than being marked "Westinghouse Proprietary Class 2" on the page and also that there was no affidavit included with the letter. The March 13, 1998, letter contained errata for WCAP-14807, which is a proprietary report. In accordance with Westinghouse company policy, each page of a proprietary report has "Westinghouse Proprietary Class 2" on the page header. Specific information that is proprietary is then indicated with brackets. It is possible that there will be no information on a page that is marked as being proprietary. In the case of the March 13, 1998, letter, none of the errata pages contained Westinghouse proprietary information, thus no affidavit was necessary and the letter can be placed in the NRC public document room.

A large number of proprietary evaluations covering the time period February 14, 1992 to May 5, 1998, have been received over the past several months, the most recent on July 22, 1998. These evaluations are being processed. As a result of discussions with NRC management, Westinghouse will provide proper proprietary documentation for the proprietary material supporting the AP600 design certification review by August 21, 1998. The responses will be provided as they are developed. It is our understanding that providing the nonproprietary versions of documents will not constrain issuing the AP600 FSER or FDA.

This response addresses the proprietary issues delineated in the references.



Brian A. McIntyre, Manager  
Advanced Plant Safety and Licensing

jml

- cc: J. W. Roe - NRC/NRR/DRPM
- J. M. Sebrosky - NRC/NRR/DRPM
- W. C. Huffman - NRC/NRR/DRPM
- H. A. Sepp - Westinghouse