

50-305

RESPONSE TO NUREG-0737 ITEM II.D.1

Docket # *50-305*

Control # *8403280048*

Date *3/23/84* of Document:
REGULATORY DOCKET FILE

.0270	1.	-2.	-0.	51.	13.	-5.	.0001	-.0001	.0003	.0016	-.0000	-.0003	21.
.0280	36.	-0.	-3.	53.	13.	-5.	.0001	-.0001	.0003	.0015	-.0001	-.0002	22.
.0290	71.	0.	-8.	43.	8.	-1.	.0002	-.0000	.0002	.0012	-.0000	-.0001	18.
.0300	107.	3.	-17.	33.	-4.	1.	.0002	-.0000	.0002	.0010	.0000	-.0000	13.
.0310	163.	5.	-29.	28.	-23.	2.	.0003	.0000	.0001	.0009	.0001	.0000	15.
.0320	194.	7.	-41.	18.	-50.	9.	.0005	.0000	-.0001	.0006	.0001	.0002	22.
.0330	176.	9.	-48.	3.	-80.	23.	.0005	.0001	-.0002	.0001	.0002	.0004	33.
.0340	179.	8.	-49.	-13.	-102.	40.	.0004	.0001	-.0004	-.0006	.0001	.0007	44.
.0350	251.	2.	-51.	-32.	-117.	56.	.0003	.0002	-.0005	-.0015	-.0001	.0008	54.
.0360	312.	2.	-59.	-57.	-141.	65.	.0003	.0002	-.0007	-.0025	-.0002	.0011	66.
.0370	271.	14.	-70.	-78.	-180.	57.	.0005	.0003	-.0010	-.0032	-.0000	.0014	82.

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DIS/ADLPIPE

ADLPIPE STRESS ANALYSIS

83/12/02.

18.28.57.

S/RV PIPING KEWAUNEE GKW08F 2 RUP DISK
2 SAFETY COLD FKW24F--2 PSV

CONDITION 24

LOADS

SHOCK

PRESSURE

ENGLISH UNITS

INTERNAL FORCES IN THE PIPING
FORCES AND MOMENTS ACT ON THE PIPING

SECTION	47	MEMBER	1	SEQUENCE	266	LOCATION	BEG	TYPE	RU						
TIME	FX	FY	FZ	MX	MY	MZ	DX	DY	DZ	RX	RY	RZ	STRESS		
(SEC)	(LB)	(LB)	(LB)	(FT-LB)	(FT-LB)	(FT-LB)	(IN)	(IN)	(IN)	(DEG)	(DEG)	(DEG)	(PSI)		
.0380	189.	26.	-76.	-89.	-215.	42.	.0006	.0004	-.0012	-.0035	.0001	.0016	95.		
.0390	191.	21.	-72.	-102.	-225.	39.	.0004	.0005	-.0013	-.0039	.0001	.0016	100.		
.0400	259.	6.	-65.	-128.	-219.	49.	.0001	.0005	-.0014	-.0044	-.0001	.0014	104.		
.0410	273.	1.	-62.	-156.	-222.	47.	-.0000	.0006	-.0014	-.0051	-.0002	.0014	111.		
.0420	191.	15.	-65.	-180.	-240.	26.	.0001	.0007	-.0016	-.0057	-.0000	.0017	121.		
.0430	98.	30.	-63.	-200.	-245.	2.	.0002	.0007	-.0017	-.0064	.0001	.0019	127.		
.0440	29.	34.	-45.	-212.	-217.	-16.	.0001	.0007	-.0017	-.0070	.0001	.0019	122.		
.0450	1.	25.	-16.	-214.	-158.	-33.	-.0003	.0007	-.0015	-.0073	-.0002	.0016	108.		
.0460	34.	12.	7.	-216.	-98.	-54.	-.0007	.0006	-.0012	-.0071	-.0004	.0011	97.		
.0470	31.	10.	12.	-227.	-65.	-79.	-.0007	.0005	-.0011	-.0067	-.0003	.0007	100.		
.0480	-139.	25.	10.	-238.	-59.	-112.	-.0004	.0003	-.0011	-.0062	.0002	.0005	108.		
.0490	-366.	37.	25.	-229.	-32.	-140.	-.0003	.0000	-.0009	-.0057	.0005	.0002	108.		
.0500	-385.	21.	62.	-194.	53.	-147.	-.0007	-.0004	-.0005	-.0051	.0001	-.0005	100.		
.0510	-223.	-12.	99.	-151.	157.	-137.	-.0012	-.0008	-.0000	-.0044	-.0005	-.0015	103.		
.0520	-220.	-19.	112.	-111.	206.	-141.	-.0013	-.0013	.0003	-.0034	-.0005	-.0021	110.		
.0530	-477.	3.	103.	-76.	199.	-159.	-.0008	-.0020	.0003	-.0020	.0001	-.0024	104.		
.0540	-648.	11.	95.	-33.	181.	-153.	-.0005	-.0027	.0004	-.0004	.0005	-.0029	96.		
.0550	-515.	-23.	103.	23.	225.	-101.	-.0007	-.0034	.0008	.0012	.0002	-.0040	99.		
.0560	-339.	-67.	120.	86.	281.	-27.	-.0010	-.0042	.0013	.0026	-.0003	-.0050	118.		
.0570	-370.	-81.	123.	146.	289.	35.	-.0009	-.0051	.0015	.0037	-.0004	-.0055	131.		
.0580	-459.	-72.	104.	203.	251.	85.	-.0005	-.0059	.0016	.0046	-.0002	-.0055	134.		
.0590	-401.	-71.	76.	263.	209.	143.	.0001	-.0067	.0016	.0056	-.0001	-.0056	146.		
.0600	-267.	-85.	54.	327.	180.	216.	.0004	-.0074	.0018	.0068	-.0003	-.0059	173.		
.0610	-152.	-108.	39.	389.	155.	303.	.0004	-.0080	.0020	.0081	-.0005	-.0062	207.		
.0620	8.	-134.	16.	442.	115.	398.	.0006	-.0085	.0022	.0094	-.0008	-.0065	243.		
.0630	174.	-148.	-23.	475.	45.	487.	.0010	-.0088	.0023	.0103	-.0008	-.0064	274.		
.0640	216.	-140.	-67.	487.	-49.	560.	.0016	-.0089	.0022	.0104	-.0007	-.0057	298.		
.0650	240.	-127.	-100.	487.	-126.	619.	.0020	-.0088	.0022	.0099	-.0008	-.0048	320.		
.0660	464.	-130.	-118.	486.	-159.	671.	.0022	-.0084	.0023	.0089	-.0013	-.0039	339.		
.0670	760.	-136.	-133.	477.	-178.	704.	.0023	-.0077	.0025	.0080	-.0019	-.0031	349.		
.0680	820.	-117.	-157.	448.	-232.	695.	.0025	-.0067	.0025	.0073	-.0020	-.0020	345.		
.0690	711.	-82.	-183.	393.	-308.	653.	.0029	-.0054	.0024	.0066	-.0018	-.0007	330.		
.0700	756.	-64.	-201.	317.	-349.	601.	.0030	-.0039	.0024	.0058	-.0018	.0003	307.		
.0710	946.	-61.	-202.	228.	-344.	538.	.0027	-.0021	.0025	.0044	-.0021	.0012	272.		
.0720	977.	-38.	-189.	130.	-326.	435.	.0024	-.0002	.0026	.0026	-.0024	.0024	224.		
.0730	796.	12.	-167.	29.	-310.	286.	.0023	.0020	.0025	.0004	-.0024	.0040	170.		
.0740	623.	61.	-136.	-76.	-272.	117.	.0020	.0042	.0025	-.0019	-.0025	.0055	123.		
.0750	536.	93.	-94.	-188.	-198.	-54.	.0015	.0065	.0025	-.0041	-.0027	.0066	112.		

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DIS/ADLPIPE

ADLPIPE STRESS ANALYSIS

83/12/02.

18.28.57.

S/RV PIPING KEWAUNEE GKW08F 2 RUP DISK
2 SAFETY COLD FKW24F--2 PSV

CONDITION 24

LOADS

SHOCK

PRESSURE

ENGLISH UNITS

INTERNAL FORCES IN THE PIPING
FORCES AND MOMENTS ACT ON THE PIPING

.0650	240.	-127.	-100.	487.	-126.	619.	.0020	-.0088	.0022	.0099	-.0008	-.0048	320.
.0660	464.	-130.	-118.	486.	-159.	671.	.0022	-.0084	.0023	.0089	-.0013	-.0039	339.
.0670	760.	-136.	-123.	477.	-178.	704.	.0023	-.0077	.0025	.0080	-.0019	-.0031	349.
.0680	820.	-117.	-157.	448.	-232.	695.	.0025	-.0067	.0025	.0073	-.0020	-.0020	345.
.0690	711.	-82.	-187.	393.	-208.	653.	.0029	-.0054	.0024	.0066	-.0018	-.0007	330.
.0700	756.	-64.	-201.	317.	-349.	601.	.0030	-.0039	.0024	.0058	-.0018	.0003	307.
.0710	946.	-61.	-202.	228.	-344.	538.	.0027	-.0021	.0025	.0044	-.0021	.0012	272.
.0720	977.	-38.	-189.	130.	-326.	435.	.0024	-.0002	.0026	.0026	-.0024	.0024	224.
.0730	796.	12.	-167.	29.	-310.	286.	.0023	.0020	.0025	.0004	-.0024	.0040	170.
.0740	623.	61.	-136.	-76.	-272.	117.	.0020	.0042	.0025	-.0019	-.0025	.0055	123.
.0750	536.	93.	-94.	-188.	-198.	-54.	.0015	.0065	.0025	-.0041	-.0027	.0066	112.

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CONDITION 24
LOADS

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ENGLISH UNITS

INTERNAL FORCES IN THE PIPING
FORCES AND MOMENTS ACT ON THE PIPING

SECTION	MEMBER	SEQUENCE	LOCATION	BEG	TYPE	RU	TIME (SEC)	FX (LB)	FY (LB)	FZ (LB)	MX (FT-LB)	MY (FT-LB)	MZ (FT-LB)	DX (IN)	DY (IN)	DZ (IN)	PX (DEG)	RY (DEG)	RZ (DEG)	STRESS (PSI)
47	1	266					.0760	415.	115.	-44.	-307.	-111.	-230.	.0008	.0088	.0026	-.0058	-.0028	.0073	160.
							.0770	212.	138.	4.	-428.	-33.	-412.	.0000	.0109	.0026	-.0071	-.0027	.0078	239.
							.0780	-25.	166.	47.	-539.	35.	-597.	-.0006	.0128	.0025	-.0081	-.0024	.0082	323.
							.0790	-279.	196.	92.	-627.	101.	-777.	-.0011	.0144	.0023	-.0091	-.0021	.0085	403.
							.0800	-526.	221.	145.	-683.	179.	-943.	-.0018	.0158	.0022	-.0099	-.0020	.0087	473.
							.0810	-682.	234.	199.	-709.	264.	-1078.	-.0025	.0167	.0020	-.0105	-.0021	.0086	529.
							.0820	-748.	237.	236.	-714.	327.	-1178.	-.0031	.0171	.0018	-.0105	-.0021	.0082	568.
							.0830	-838.	242.	247.	-700.	339.	-1244.	-.0033	.0171	.0014	-.0098	-.0017	.0077	589.
							.0840	-967.	246.	234.	-669.	302.	-1269.	-.0032	.0165	.0009	-.0084	-.0010	.0069	588.
							.0850	-981.	234.	210.	-614.	249.	-1236.	-.0031	.0155	.0003	-.0067	-.0004	.0060	563.
							.0860	-803.	202.	179.	-530.	198.	-1142.	-.0030	.0139	-.0002	-.0050	-.0001	.0048	511.
							.0870	-562.	168.	138.	-417.	124.	-1003.	-.0027	.0118	-.0007	-.0035	.0001	.0037	439.
							.0880	-387.	146.	78.	-282.	3.	-832.	-.0021	.0094	-.0015	-.0020	.0004	.0029	352.
							.0890	-219.	125.	2.	-134.	-158.	-622.	-.0012	.0066	-.0023	-.0004	.0009	.0022	263.
							.0900	58.	84.	-82.	22.	-333.	-365.	-.0004	.0035	-.0032	.0015	.0012	.0013	198.
							.0910	419.	23.	-167.	182.	-510.	-68.	.0003	.0003	-.0039	.0036	.0013	.0000	219.
							.0920	742.	-42.	-252.	341.	-698.	246.	.0009	-.0029	-.0045	.0059	.0014	-.0012	327.
							.0930	974.	-98.	-335.	495.	-893.	558.	.0017	-.0060	-.0051	.0080	.0016	-.0022	467.
							.0940	1163.	-146.	-408.	639.	-1073.	853.	.0024	-.0089	-.0056	.0097	.0016	-.0029	607.
							.0950	1367.	-193.	-462.	768.	-1210.	1124.	.0030	-.0114	-.0058	.0107	.0013	-.0034	731.
							.0960	1573.	-239.	-496.	872.	-1296.	1363.	.0034	-.0134	-.0058	.0113	.0008	-.0038	832.
							.0970	1736.	-278.	-515.	940.	-1342.	1554.	.0037	-.0149	-.0054	.0115	.0002	-.0040	906.
							.0980	1816.	-302.	-524.	964.	-1352.	1684.	.0039	-.0157	-.0048	.0116	-.0003	-.0041	949.
							.0990	1808.	-309.	-521.	943.	-1319.	1743.	.0042	-.0158	-.0040	.0114	-.0007	-.0038	955.
							.1000	1753.	-302.	-496.	879.	-1220.	1725.	.0043	-.0152	-.0028	.0107	-.0011	-.0034	918.
							.1010	1710.	-282.	-447.	774.	-1044.	1627.	.0043	-.0138	-.0013	.0093	-.0017	-.0028	836.
							.1020	1685.	-245.	-381.	633.	-800.	1446.	.0042	-.0118	.0005	.0072	-.0023	-.0019	710.
							.1030	1600.	-182.	-306.	456.	-514.	1180.	.0041	-.0092	.0023	.0046	-.0027	-.0008	548.
							.1040	1380.	-96.	-224.	247.	-203.	842.	.0042	-.0061	.0040	.0017	-.0028	.0007	361.
							.1050	1139.	-8.	-130.	16.	139.	460.	.0040	-.0027	.0057	-.0012	-.0027	.0019	193.
							.1060	1001.	64.	-27.	-226.	512.	61.	.0035	.0008	.0073	-.0041	-.0027	.0028	226.
							.1070	889.	129.	79.	-471.	884.	-345.	.0028	.0042	.0085	-.0069	-.0025	.0034	425.
							.1080	545.	208.	182.	-713.	1207.	-759.	.0022	.0075	.0093	-.0099	-.0019	.0041	640.
							.1090	-54.	298.	287.	-936.	1477.	-1163.	.0015	.0103	.0094	-.0130	-.0008	.0048	843.
							.1100	-221.	340.	389.	-1105.	1749.	-1507.	.0004	.0125	.0091	-.0158	-.0002	.0047	1027.
							.1110	-298.	354.	483.	-1226.	1971.	-1783.	-.0010	.0140	.0081	-.0181	.0004	.0040	1174.
							.1120	-863.	382.	562.	-1317.	2063.	-1997.	-.0022	.0146	.0063	-.0200	.0019	.0034	1268.
							.1130	-1538.	393.	621.	-1364.	2052.	-2115.	-.0035	.0142	.0038	-.0212	.0037	.0025	1303.

ADLPIPE PAGE 1834

DIS/ADLPIPE

ADLPIPE STRESS ANALYSIS

83/12/02.

18.28.57.

S/RV PIPING KEWAUNEE GKW08F 2 RUP DISK
2 SAFETY COLD FKW24F--2 PSV

CONDITION 24
LOADS

SHOCK
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ENGLISH UNITS

INTERNAL FORCES IN THE PIPING
FORCES AND MOMENTS ACT ON THE PIPING

.1030	1600.	-182.	66.	456.	-514.	1180.	.0041	-.0092	.0023	.0046	-.0027	-.0008	548.
.1040	1380.	-96.	-224.	247.	-203.	842.	.0042	-.0061	.0040	.0017	-.0028	-.0007	361.
.1050	1139.	-8.	-130.	16.	139.	460.	.0040	-.0027	.0057	-.0012	-.0027	.0019	193.
.1060	1001.	64.	-27.	-226.	512.	61.	.0035	.0008	.0073	-.0041	-.0027	.0028	226.
.1070	889.	129.	79.	-471.	284.	-345.	.0028	.0042	.0085	-.0069	-.0025	.0034	425.
.1080	545.	208.	182.	-713.	1207.	-759.	.0022	.0075	.0093	-.0099	-.0019	.0041	640.
.1090	-54.	298.	287.	-936.	1477.	-1163.	.0015	.0103	.0094	-.0130	-.0008	.0048	843.
.1100	-221.	340.	389.	-1105.	1749.	-1507.	.0004	.0125	.0091	-.0158	-.0002	.0047	1027.
.1110	-298.	354.	483.	-1226.	1971.	-1783.	-.0010	.0140	.0081	-.0181	.0004	.0040	1174.
.1120	-863.	382.	562.	-1317.	2023.	-1997.	-.0022	.0146	.0063	-.0200	.0019	.0034	1268.
.1130	-1538.	393.	621.	-1364.	2052.	-2115.	-.0035	.0142	.0038	-.0212	.0037	.0025	1303.

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INTERNAL FORCES IN THE PIPING
FORCES AND MOMENTS ACT ON THE PIPING

SECTION	47	MEMBER	1	SEQUENCE	266	LOCATION	BEG	TYPE	RU						
TIME (SEC)	FX (LB)	FY (LB)	FZ (LB)	MX (FT-LB)	MY (FT-LB)	MZ (FT-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (DEG)	RY (DEG)	RZ (DEG)	STRESS (PSI)		
.1140	-1759.	340.	656.	-1350.	1993.	-2102.	-.0050	.0129	.0008	-.0217	.0051	.0006	1282.		
.1150	-1828.	258.	665.	-1285.	1852.	-1975.	-.0065	.0105	-.0028	-.0219	.0065	-.0017	1203.		
.1160	-2265.	198.	648.	-1175.	1580.	-1775.	-.0076	.0073	-.0070	-.0220	.0085	-.0035	1064.		
.1170	-2761.	141.	606.	-1009.	1218.	-1497.	-.0085	.0032	-.0116	-.0217	.0105	-.0052	874.		
.1180	-2624.	32.	530.	-779.	839.	-1112.	-.0093	-.0016	-.0163	-.0209	.0120	-.0075	640.		
.1190	-2240.	-97.	415.	-518.	401.	-636.	-.0097	-.0070	-.0211	-.0195	.0133	-.0099	366.		
.1200	-2281.	-179.	268.	-258.	-152.	-112.	-.0095	-.0127	-.0259	-.0178	.0153	-.0116	128.		
.1210	-2372.	-290.	102.	6.	-749.	460.	-.0089	-.0186	-.0305	-.0158	.0173	-.0129	353.		
.1220	-1814.	-414.	-73.	280.	-1286.	1092.	-.0085	-.0243	-.0343	-.0140	.0182	-.0146	686.		
.1230	-950.	-553.	-258.	554.	-1787.	1724.	-.0079	-.0297	-.0376	-.0123	.0184	-.0160	1021.		
.1240	-529.	-623.	-448.	811.	-2318.	2281.	-.0065	-.0344	-.0403	-.0108	.0190	-.0161	1345.		
.1250	-340.	-649.	-634.	1052.	-2830.	2757.	-.0047	-.0384	-.0424	-.0092	.0197	-.0154	1641.		
.1260	280.	-703.	-798.	1278.	-3222.	3191.	-.0032	-.0413	-.0433	-.0070	.0192	-.0151	1891.		
.1270	1126.	-777.	-933.	1451.	-3497.	3576.	-.0021	-.0430	-.0430	-.0046	.0179	-.0148	2090.		
.1280	1506.	-809.	-1034.	1543.	-3720.	3857.	-.0009	-.0435	-.0417	-.0026	.0166	-.0137	2238.		
.1290	1534.	-795.	-1099.	1555.	-3864.	4010.	.0004	-.0424	-.0394	-.0012	.0152	-.0118	2320.		
.1300	1799.	-776.	-1119.	1508.	-3847.	4044.	.0013	-.0399	-.0358	-.0008	.0128	-.0095	2320.		
.1310	2166.	-741.	-1085.	1412.	-3663.	3936.	.0021	-.0358	-.0311	-.0012	.0096	-.0067	2231.		
.1320	2080.	-650.	-996.	1258.	-3368.	3662.	.0027	-.0303	-.0255	-.0022	.0062	-.0032	2059.		
.1330	1680.	-526.	-858.	1048.	-2964.	3242.	.0031	-.0234	-.0188	-.0030	.0028	-.0007	1812.		
.1340	1513.	-420.	-686.	783.	-2425.	2726.	.0030	-.0154	-.0113	-.0034	-.0013	.0041	1497.		
.1350	1459.	-320.	-494.	451.	-1791.	2125.	.0027	-.0063	-.0030	-.0036	-.0055	.0073	1130.		
.1360	1030.	-174.	-288.	57.	-1132.	1418.	.0026	.0036	.0056	-.0042	-.0093	.0109	729.		
.1370	399.	7.	-65.	-365.	-432.	627.	.0026	.0139	.0144	-.0055	-.0130	.0151	339.		
.1380	87.	180.	175.	-767.	354.	-204.	.0025	.0243	.0234	-.0072	-.0172	.0191	349.		
.1390	-20.	347.	422.	-1137.	1184.	-1649.	.0022	.0347	.0323	-.0090	-.0216	.0229	782.		
.1400	-374.	532.	657.	-1487.	1961.	-1894.	.0022	.0444	.0406	-.0104	-.0253	.0266	1246.		
.1410	-818.	714.	856.	-1819.	2647.	-2689.	.0023	.0534	.0483	-.0108	-.0282	.0298	1681.		
.1420	-886.	846.	1006.	-2124.	3252.	-3369.	.0024	.0611	.0550	-.0105	-.0307	.0320	2063.		
.1430	-721.	941.	1106.	-2384.	3741.	-3918.	.0027	.0674	.0606	-.0097	-.0327	.0335	2375.		
.1440	-762.	1039.	1167.	-2572.	4073.	-4345.	.0033	.0721	.0648	-.0089	-.0340	.0349	2603.		
.1450	-868.	1125.	1200.	-2656.	4267.	-4631.	.0040	.0749	.0674	-.0083	-.0347	.0362	2743.		
.1460	-615.	1158.	1201.	-2624.	4357.	-4740.	.0045	.0757	.0687	-.0076	-.0355	.0367	2790.		
.1470	-132.	1142.	1154.	-2505.	4300.	-4662.	.0049	.0746	.0684	-.0067	-.0358	.0363	2736.		
.1480	153.	1108.	1046.	-2329.	4025.	-4417.	.0056	.0715	.0663	-.0050	-.0350	.0355	2574.		
.1490	317.	1045.	878.	-2105.	3546.	-4001.	.0064	.0666	.0626	-.0025	-.0330	.0340	2306.		
.1500	712.	924.	671.	-1823.	2939.	-3407.	.0071	.0600	.0574	.0004	-.0307	.0315	1948.		
.1510	1257.	759.	447.	-1476.	2246.	-2670.	.0074	.0521	.0511	.0030	-.0283	.0285	1520.		

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DIS/ADLPIPE

ADLPIPE STRESS ANALYSIS

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18.28.57.

S/RV PIPING KEWAUNEE GKW08F 2 RUP DISK
2 SAFETY COLD FKW24F--2 PSV

CONDITION 24
LOADS
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ENGLISH UNITS

INTERNAL FORCES IN THE PIPING
FORCES AND MOMENTS ACT ON THE PIPING

.1410	-818.	714.	1006.	-2124.	3252.	-2689.	.0023	.0534	.0483	-.0108	-.0282	.0298	1681.
.1420	-386.	346.	1106.	-2384.	3741.	-3918.	.0027	.0674	.0606	-.0097	-.0327	.0335	2375.
.1430	-721.	941.	1167.	-2572.	4073.	-4345.	.0033	.0721	.0648	-.0089	-.0340	.0349	2603.
.1440	-762.	1039.	1200.	-2656.	4267.	-4631.	.0040	.0749	.0674	-.0083	-.0347	.0362	2743.
.1450	-868.	1125.	1201.	-2624.	4357.	-4740.	.0045	.0757	.0687	-.0076	-.0355	.0367	2790.
.1460	-615.	1158.	1154.	-2505.	4300.	-4662.	.0049	.0746	.0684	-.0067	-.0358	.0363	2736.
.1470	-132.	1142.	1046.	-2329.	4025.	-4417.	.0056	.0715	.0663	-.0050	-.0350	.0355	2574.
.1480	157.	1108.	878.	-2105.	3546.	-4001.	.0064	.0666	.0626	-.0025	-.0330	.0340	2306.
.1490	317.	1045.	671.	-1823.	2939.	-3407.	.0071	.0600	.0574	.0004	-.0307	.0315	1948.
.1500	712.	924.	447.	-1476.	2246.	-2670.	.0074	.0521	.0511	.0030	-.0283	.0285	1520.

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DIS/ADLPIPE

ADLPIPE STRESS ANALYSIS

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S/RV PIPING KEWAUNEE GKW08F 2 RUP DISK
2 SAFETY COLD FKW24F--2 PSV

CONDITION 24

LOADS

SHOCK

PRESSURE

ENGLISH UNITS

INTERNAL FORCES IN THE PIPING
FORCES AND MOMENTS ACT ON THE PIPING

SECTION	MEMBER	SEQUENCE	LOCATION	BEG	TYPE	RU	DX	DY	DZ	RX	RY	RZ	STRESS
TIME (SEC)	FX (LB)	FY (LB)	FZ (LB)	MX (FT-LB)	MY (FT-LB)	MZ (FT-LB)	(IN)	(IN)	(IN)	(DEG)	(DEG)	(DEG)	(PSI)
.1520	1624.	592.	221.	-1079.	1470.	-1845.	.0076	.0431	.0438	.0048	-.0256	.0256	1041.
.1530	1864.	430.	-9.	-651.	631.	-970.	.0078	.0333	.0355	.0058	-.0226	.0229	533.
.1540	2225.	254.	-245.	-218.	-227.	-64.	.0080	.0232	.0267	.0060	-.0196	.0201	129.
.1550	2609.	71.	-485.	188.	-1090.	839.	.0080	.0131	.0176	.0061	-.0162	.0171	557.
.1560	2765.	-101.	-713.	550.	-1942.	1691.	.0079	.0033	.0085	.0064	-.0125	.0140	1057.
.1570	2793.	-266.	-915.	859.	-2727.	2462.	.0074	-.0056	-.0002	.0067	-.0087	.0107	1514.
.1580	2919.	-429.	-1077.	1120.	-3379.	3122.	.0067	-.0136	-.0082	.0067	-.0053	.0074	1900.
.1590	3001.	-560.	-1195.	1324.	-3888.	3623.	.0058	-.0202	-.0154	.0059	-.0021	.0044	2198.
.1600	2827.	-634.	-1265.	1453.	-4259.	3934.	.0049	-.0253	-.0218	.0040	.0009	.0022	2398.
.1610	2477.	-662.	-1284.	1499.	-4474.	4056.	.0040	-.0289	-.0270	.0012	.0037	.0007	2497.
.1620	2166.	-671.	-1252.	1466.	-4507.	4006.	.0028	-.0307	-.0308	-.0019	.0059	-.0007	2490.
.1630	1851.	-666.	-1170.	1353.	-4369.	3796.	.0013	-.0310	-.0334	-.0050	.0076	-.0022	2385.
.1640	1358.	-631.	-1046.	1164.	-4094.	3424.	-.0003	-.0298	-.0346	-.0077	.0092	-.0035	2192.
.1650	731.	-564.	-889.	920.	-3700.	2901.	-.0018	-.0273	-.0346	-.0101	.0105	-.0046	1922.
.1660	150.	-476.	-705.	639.	-3188.	2259.	-.0033	-.0237	-.0336	-.0124	.0113	-.0055	1589.
.1670	-390.	-368.	-498.	342.	-2583.	1529.	-.0047	-.0194	-.0315	-.0147	.0117	-.0062	1212.
.1680	-991.	-240.	-275.	39.	-1924.	752.	-.0060	-.0145	-.0287	-.0171	.0116	-.0064	829.
.1690	-1598.	-110.	-47.	-257.	-1243.	-23.	-.0072	-.0096	-.0252	-.0192	.0112	-.0065	509.
.1700	-2060.	5.	169.	-532.	-570.	-747.	-.0081	-.0049	-.0213	-.0207	.0104	-.0068	433.
.1710	-2368.	102.	354.	-777.	51.	-1387.	-.0088	-.0006	-.0172	-.0212	.0095	-.0073	638.
.1720	-2623.	191.	497.	-973.	577.	-1930.	-.0091	.0028	-.0131	-.0208	.0086	-.0077	898.
.1730	-2801.	269.	595.	-1106.	993.	-2347.	-.0088	.0053	-.0092	-.0196	.0077	-.0082	1115.
.1740	-2782.	321.	651.	-1163.	1306.	-2609.	-.0082	.0065	-.0057	-.0179	.0067	-.0086	1260.
.1750	-2551.	343.	668.	-1139.	1512.	-2696.	-.0073	.0065	-.0025	-.0159	.0053	-.0091	1322.
.1760	-2216.	338.	641.	-1050.	1589.	-2602.	-.0060	.0052	.0002	-.0137	.0039	-.0095	1294.
.1770	-1824.	312.	567.	-902.	1527.	-2338.	-.0045	.0027	.0023	-.0112	.0027	-.0099	1178.
.1780	-1316.	259.	449.	-702.	1342.	-1918.	-.0026	-.0009	.0038	-.0084	.0015	-.0103	981.
.1790	-684.	179.	296.	-451.	1056.	-1367.	-.0006	-.0055	.0048	-.0050	.0004	-.0109	716.
.1800	-30.	82.	121.	-155.	691.	-722.	.0015	-.0107	.0053	-.0012	-.0006	-.0116	406.
.1810	581.	-25.	-62.	168.	274.	-14.	.0036	-.0164	.0054	.0027	-.0015	-.0122	129.
.1820	1176.	-140.	-241.	505.	-161.	721.	.0055	-.0221	.0054	.0065	-.0025	-.0129	359.
.1830	1747.	-259.	-408.	829.	-586.	1448.	.0071	-.0276	.0052	.0099	-.0036	-.0134	710.
.1840	2202.	-371.	-553.	1117.	-980.	2126.	.0086	-.0325	.0051	.0128	-.0047	-.0138	1041.
.1850	2506.	-465.	-669.	1356.	-1316.	2711.	.0097	-.0366	.0052	.0152	-.0057	-.0139	1326.
.1860	2718.	-543.	-747.	1544.	-1560.	3169.	.0105	-.0395	.0055	.0171	-.0067	-.0140	1547.
.1870	2834.	-599.	-781.	1677.	-1688.	3468.	.0109	-.0411	.0062	.0188	-.0078	-.0140	1688.
.1880	2786.	-626.	-769.	1741.	-1697.	3589.	.0109	-.0413	.0074	.0202	-.0088	-.0138	1739.
.1890	2579.	-620.	-713.	1729.	-1583.	3522.	.0106	-.0399	.0090	.0212	-.0097	-.0135	1698.

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DIS/ADLPIPE

ADLPIPE STRESS ANALYSIS

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18.28.57.

S/RV PIPING KEWAUNEE GKW08F 2 RUP DISK
2 SAFETY COLD FKW24F--2 PSV

CONDITION 24

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ENGLISH UNITS

INTERNAL FORCES IN THE PIPING
FORCES AND MOMENTS ACT ON THE PIPING

.1790	-684.	179.	296.	-451.	1056.	-1367.	-.0006	-.0055	.0048	-.0050	.0004	-.0109	716.
.1800	-30.	82.	121.	-155.	691.	-722.	.0015	-.0107	.0053	-.0012	-.0006	-.0116	406.
.1810	581.	-25.	-62.	168.	274.	-14.	.0036	-.0164	.0054	.0027	-.0015	-.0122	129.
.1820	1176.	-140.	-241.	505.	-161.	721.	.0055	-.0221	.0054	.0065	-.0025	-.0129	359.
.1830	1747.	-259.	-400.	829.	-586.	1448.	.0071	-.0276	.0052	.0099	-.0036	-.0134	710.
.1840	2202.	-371.	-553.	1117.	-980.	2126.	.0086	-.0325	.0051	.0128	-.0047	-.0138	1041.
.1850	2506.	-465.	-669.	1356.	-1316.	2711.	.0097	-.0366	.0052	.0152	-.0057	-.0139	1326.
.1860	2718.	-543.	-747.	1544.	-1560.	3169.	.0105	-.0395	.0055	.0171	-.0067	-.0140	1547.
.1870	2834.	-599.	-781.	1677.	-1688.	3468.	.0109	-.0411	.0062	.0188	-.0078	-.0140	1688.
.1880	2786.	-626.	-769.	1741.	-1697.	3589.	.0109	-.0413	.0074	.0202	-.0088	-.0138	1739.
.1890	2579.	-620.	-713.	1729.	-1583.	3522.	.0106	-.0399	.0090	.0212	-.0097	-.0135	1698.

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CONDITION 24

LOADS

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ENGLISH UNITS

INTERNAL FORCES IN THE PIPING
FORCES AND MOMENTS ACT ON THE PIPING

SECTION	MEMBER	SEQUENCE	LOCATION	BEG	TYPE	RU	DX	DY	DZ	RX	RY	RZ	STRESS
TIME	FX	FY	FZ	MX	MY	MZ	(IN)	(IN)	(IN)	(DEG)	(DEG)	(DEG)	(PSI)
(SEC)	(LB)	(LB)	(LB)	(FT-LB)	(FT-LB)	(FT-LB)							
.1900	2308.	-585.	-618.	1635.	-1345.	3275.	.0101	-.0371	.0111	.0215	-.0106	-.0130	1565.
.1910	1997.	-523.	-488.	1464.	-990.	2860.	.0092	-.0328	.0135	.0212	-.0114	-.0122	1349.
.1920	1583.	-427.	-329.	1229.	-537.	2289.	.0083	-.0273	.0163	.0202	-.0120	-.0112	1064.
.1930	1085.	-302.	-144.	947.	-4.	1586.	.0072	-.0208	.0192	.0187	-.0125	-.0099	741.
.1940	608.	-163.	56.	637.	589.	793.	.0059	-.0137	.0221	.0169	-.0128	-.0085	472.
.1950	187.	-19.	257.	310.	1209.	-50.	.0046	-.0062	.0249	.0151	-.0129	-.0072	501.
.1960	-230.	130.	445.	-23.	1806.	-900.	.0033	.0012	.0272	.0133	-.0127	-.0059	810.
.1970	-635.	274.	611.	-348.	2343.	-1709.	.0022	.0083	.0290	.0116	-.0120	-.0046	1172.
.1980	-963.	402.	748.	-644.	2800.	-2432.	.0011	.0146	.0299	.0098	-.0111	-.0034	1510.
.1990	-1204.	507.	855.	-889.	3155.	-3028.	.0001	.0199	.0300	.0080	-.0099	-.0024	1791.
.2000	-1387.	586.	929.	-1068.	3384.	-3469.	-.0009	.0239	.0290	.0061	-.0085	-.0014	1992.
.2010	-1502.	635.	961.	-1173.	3468.	-3732.	-.0017	.0264	.0269	.0043	-.0068	-.0006	2098.
.2020	-1524.	648.	946.	-1202.	3390.	-3802.	-.0024	.0274	.0237	.0028	-.0049	.0000	2100.
.2030	-1464.	624.	880.	-1160.	3143.	-3672.	-.0029	.0267	.0193	.0017	-.0026	.0004	1995.
.2040	-1352.	564.	766.	-1053.	2732.	-3348.	-.0033	.0245	.0138	.0008	-.0000	.0005	1785.
.2050	-1175.	471.	613.	-888.	2180.	-2844.	-.0036	.0209	.0074	.0001	.0027	.0004	1481.
.2060	-915.	348.	431.	-668.	1516.	-2188.	-.0038	.0162	.0003	-.0006	.0054	.0002	1101.
.2070	-605.	207.	227.	-405.	770.	-1417.	-.0039	.0106	-.0072	-.0016	.0081	.0000	667.
.2080	-287.	58.	10.	-117.	-33.	-577.	-.0039	.0044	-.0150	-.0027	.0107	-.0000	237.
.2090	30.	-93.	-214.	179.	-860.	288.	-.0039	-.0019	-.0228	-.0039	.0132	.0000	371.
.2100	359.	-241.	-435.	462.	-1673.	1134.	-.0038	-.0080	-.0303	-.0051	.0155	.0000	832.
.2110	680.	-381.	-643.	718.	-2436.	1917.	-.0037	-.0136	-.0371	-.0060	.0177	.0000	1277.
.2120	950.	-503.	-828.	930.	-3114.	2593.	-.0037	-.0182	-.0431	-.0068	.0195	.0001	1668.
.2130	1153.	-597.	-978.	1090.	-3673.	3124.	-.0037	-.0217	-.0481	-.0076	.0211	.0003	1984.
.2140	1295.	-658.	-1085.	1189.	-4082.	3482.	-.0038	-.0238	-.0518	-.0086	.0222	.0007	2205.
.2150	1370.	-683.	-1142.	1222.	-4321.	3649.	-.0040	-.0244	-.0540	-.0098	.0228	.0014	2322.
.2160	1359.	-669.	-1149.	1181.	-4382.	3615.	-.0042	-.0234	-.0549	-.0112	.0230	.0023	2329.
.2170	1259.	-620.	-1107.	1066.	-4270.	3385.	-.0045	-.0208	-.0543	-.0126	.0228	.0034	2228.
.2180	1088.	-539.	-1020.	883.	-3991.	2971.	-.0048	-.0168	-.0522	-.0139	.0222	.0045	2028.
.2190	861.	-431.	-893.	642.	-3560.	2395.	-.0052	-.0115	-.0489	-.0149	.0213	.0056	1741.
.2200	580.	-300.	-732.	356.	-2998.	1687.	-.0056	-.0053	-.0444	-.0156	.0201	.0068	1388.
.2210	264.	-151.	-543.	42.	-2330.	884.	-.0060	.0016	-.0390	-.0161	.0186	.0079	1000.
.2220	-54.	9.	-338.	-286.	-1590.	28.	-.0063	.0089	-.0329	-.0166	.0169	.0090	548.
.2230	-361.	172.	-128.	-611.	-817.	-833.	-.0065	.0161	-.0264	-.0170	.0150	.0102	529.
.2240	-650.	331.	77.	-920.	-50.	-1652.	-.0065	.0228	-.0198	-.0172	.0130	.0112	759.
.2250	-897.	472.	266.	-1196.	676.	-2385.	-.0064	.0288	-.0133	-.0171	.0111	.0121	1104.
.2260	-1067.	588.	430.	-1424.	1328.	-2992.	-.0062	.0337	-.0072	-.0167	.0091	.0127	1432.
.2270	-1158.	676.	558.	-1592.	1872.	-3445.	-.0058	.0373	-.0017	-.0159	.0074	.0130	1698.

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DIS/ADLPIPE

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S/RV PIPING KEWAUNEE GKW08F 2 RUP DISK
2 SAFETY COLD FKW24F--2 PSV

CONDITION 24

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ENGLISH UNITS

INTERNAL FORCES IN THE PIPING
FORCES AND MOMENTS ACT ON THE PIPING

.2170	1259.	-620.	-1107.	1066.	-4270.	2385.	-0.045	-0.0208	-0.0543	-0.0126	.0228	.0034	2228.
.2180	1088.	-539.	-1020.	883.	-3991.	2971.	-0.048	-0.0168	-0.0522	-0.0139	.0222	.0045	2028.
.2190	861.	-431.	-893.	642.	-3560.	2395.	-0.052	-0.0115	-0.0489	-0.0149	.0213	.0056	1741.
.2200	580.	-300.	-732.	356.	-2998.	1687.	-0.056	-0.0053	-0.0444	-0.0156	.0201	.0068	1388.
.2210	264.	-191.	-543.	42.	-2330.	884.	-0.060	.0016	-0.0390	-0.0161	.0186	.0079	1000.
.2220	-54.	9.	-330.	-276.	-1590.	28.	-0.063	.0089	-0.0329	-0.0166	.0169	.0090	648.
.2230	-361.	172.	-120.	-611.	-017.	-833.	-0.065	.0161	-0.0264	-0.0170	.0150	.0102	529.
.2240	-650.	331.	77.	-920.	-50.	-1652.	-0.065	.0228	-0.0198	-0.0172	.0130	.0112	759.
.2250	-897.	472.	266.	-1196.	676.	-2385.	-0.064	.0288	-0.0133	-0.0171	.0111	.0121	1104.
.2260	-1067.	588.	430.	-1424.	1328.	-2992.	-0.062	.0337	-0.0072	-0.0167	.0091	.0127	1432.
.2270	-1158.	676.	558.	-1592.	1872.	-3445.	-0.058	.0373	-0.0017	-0.0159	.0074	.0130	1698.

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S/RV PIPING KEWAUNEE GKW08F 2 RUP DISK
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CONDITION 24

LOADS

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PRESSURE

ENGLISH UNITS

INTERNAL FORCES IN THE PIPING
FORCES AND MOMENTS ACT ON THE PIPING

SECTION	47	MEMBER	1	SEQUENCE	266	LOCATION	BEG	TYPE	RU						
TIME	FX	FY	FZ	MX	MY	MZ	DX	DY	DZ	RX	RY	RZ	STRESS		
(SEC)	(LB)	(LB)	(LB)	(FT-LB)	(FT-LB)	(FT-LB)	(IN)	(IN)	(IN)	(DEG)	(DEG)	(DEG)	(PSI)		
.2280	-1188.	734.	643.	-1692.	2280.	-3723.	-0.052	.0393	.0029	-0.0147	.0058	.0131	1879.		
.2290	-1147.	760.	685.	-1717.	2539.	-3811.	-0.043	.0397	.0065	-0.0134	.0045	.0129	1963.		
.2300	-1011.	749.	684.	-1666.	2646.	-3702.	-0.034	.0384	.0090	-0.0120	.0033	.0125	1944.		
.2310	-790.	701.	642.	-1540.	2600.	-3401.	-0.024	.0355	.0104	-0.0104	.0023	.0118	1826.		
.2320	-525.	622.	559.	-1348.	2403.	-2929.	-0.013	.0312	.0107	-0.0088	.0016	.0109	1613.		
.2330	-225.	518.	438.	-1101.	2064.	-2312.	-0.001	.0255	.0099	-0.0070	.0013	.0098	1320.		
.2340	127.	390.	285.	-808.	1609.	-1585.	.0010	.0189	.0082	-0.0051	.0012	.0084	963.		
.2350	516.	246.	110.	-484.	1069.	-784.	.0022	.0116	.0057	-0.0031	.0013	.0068	566.		
.2360	893.	95.	-77.	-145.	471.	48.	.0032	.0040	.0025	-0.0012	.0017	.0052	199.		
.2370	1233.	-52.	-266.	192.	-154.	867.	.0042	-0.0037	-0.0010	.0006	.0022	.0035	362.		
.2380	1551.	-191.	-449.	509.	-770.	1636.	.0050	-0.0109	-0.0048	.0020	.0029	.0020	754.		
.2390	1852.	-316.	-618.	792.	-1344.	2316.	.0056	-0.0175	-0.0086	.0030	.0037	.0005	1120.		
.2400	2107.	-419.	-765.	1026.	-1850.	2873.	.0061	-0.0231	-0.0122	.0036	.0046	-0.0009	1432.		
.2410	2288.	-494.	-885.	1203.	-2271.	3200.	.0064	-0.0275	-0.0155	.0039	.0055	-0.0020	1672.		
.2420	2391.	-535.	-977.	1316.	-2590.	3518.	.0066	-0.0305	-0.0184	.0039	.0066	-0.0029	1831.		
.2430	2440.	-544.	-1039.	1361.	-2794.	3582.	.0066	-0.0322	-0.0207	.0037	.0077	-0.0036	1903.		
.2440	2455.	-524.	-1066.	1340.	-2875.	3477.	.0064	-0.0324	-0.0225	.0030	.0089	-0.0041	1889.		
.2450	2433.	-477.	-1061.	1252.	-2838.	3215.	.0061	-0.0313	-0.0237	.0020	.0100	-0.0044	1793.		
.2460	2357.	-401.	-1029.	1105.	-2697.	2814.	.0057	-0.0289	-0.0245	.0005	.0112	-0.0043	1626.		
.2470	2214.	-297.	-976.	907.	-2479.	2297.	.0053	-0.0256	-0.0250	-0.0014	.0125	-0.0039	1404.		
.2480	2038.	-175.	-908.	674.	-2199.	1697.	.0048	-0.0215	-0.0253	-0.0037	.0139	-0.0032	1147.		
.2490	1889.	-51.	-827.	422.	-1872.	1057.	.0042	-0.0170	-0.0254	-0.0061	.0153	-0.0025	879.		
.2500	1760.	69.	-739.	163.	-1526.	417.	.0034	-0.0122	-0.0256	-0.0086	.0167	-0.0017	638.		
.2510	1596.	183.	-654.	-89.	-1202.	-191.	.0026	-0.0076	-0.0261	-0.0111	.0183	-0.0009	490.		
.2520	1382.	289.	-581.	-325.	-935.	-735.	.0019	-0.0034	-0.0270	-0.0136	.0201	-0.0000	495.		
.2530	1163.	378.	-526.	-531.	-743.	-1184.	.0011	.0002	-0.0285	-0.0161	.0220	.0009	600.		
.2540	984.	442.	-490.	-692.	-636.	-1512.	.0003	.0030	-0.0307	-0.0187	.0239	.0017	714.		
.2550	859.	480.	-478.	-800.	-628.	-1706.	-0.005	.0048	-0.0335	-0.0211	.0260	.0025	797.		
.2560	769.	496.	-499.	-850.	-742.	-1762.	-0.012	.0056	-0.0372	-0.0234	.0282	.0032	840.		
.2570	685.	500.	-568.	-848.	-1004.	-1690.	-0.015	.0053	-0.0418	-0.0253	.0308	.0040	859.		
.2580	710.	491.	-692.	-795.	-1409.	-1495.	-0.015	.0040	-0.0473	-0.0270	.0337	.0048	884.		
.2590	986.	457.	-864.	-694.	-1928.	-1182.	-0.013	.0017	-0.0536	-0.0283	.0368	.0055	949.		
.2600	1484.	404.	-1081.	-548.	-2548.	-771.	-0.008	-0.0013	-0.0605	-0.0295	.0400	.0060	1091.		
.2610	2071.	351.	-1339.	-367.	-3271.	-297.	-0.001	-0.0050	-0.0680	-0.0305	.0435	.0067	1326.		
.2620	2700.	308.	-1677.	-160.	-4087.	209.	.0011	-0.0090	-0.0762	-0.0314	.0474	.0075	1643.		
.2630	3429.	266.	-1950.	66.	-4954.	728.	.0024	-0.0134	-0.0848	-0.0321	.0514	.0084	2009.		
.2640	4293.	205.	-2273.	302.	-5809.	1250.	.0034	-0.0177	-0.0933	-0.0327	.0551	.0089	2387.		
.2650	5173.	125.	-2559.	542.	-6618.	1751.	.0039	-0.0218	-0.1017	-0.0330	.0584	.0088	2756.		

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.2550	859.	480.	-478.	-800.	-628.	-1706.	-.0005	.0048	-.0335	-.0211	.0260	.0025	797.
.2560	769.	496.	-499.	-850.	-742.	-1762.	-.0012	.0056	-.0372	-.0234	.0282	.0032	840.
.2570	685.	500.	-568.	-848.	-1004.	-1690.	-.0015	.0053	-.0418	-.0253	.0308	.0040	859.
.2580	710.	491.	-692.	-795.	-1409.	-1495.	-.0015	.0040	-.0473	-.0270	.0337	.0048	884.
.2590	986.	457.	-864.	-694.	-1928.	-1182.	-.0013	.0017	-.0536	-.0283	.0368	.0055	949.
.2600	1484.	404.	-1081.	-548.	-2548.	-771.	-.0008	-.0017	-.0605	-.0295	.0400	.0060	1091.
.2610	2071.	351.	-1339.	-367.	-3271.	-297.	-.0001	-.0050	-.0680	-.0305	.0435	.0067	1326.
.2620	2700.	308.	-1637.	-160.	-4087.	209.	.0011	-.0090	-.0762	-.0314	.0474	.0075	1643.
.2630	3429.	266.	-1950.	66.	-4954.	728.	.0024	-.0134	-.0848	-.0321	.0514	.0084	2009.
.2640	4293.	205.	-2273.	302.	-5809.	1250.	.0034	-.0177	-.0933	-.0327	.0551	.0089	2387.
.2650	5173.	125.	-2559.	542.	-6618.	1751.	.0039	-.0218	-.1017	-.0330	.0584	.0088	2756.

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2 SAFETY COLD FKW24F--2 PSVCONDITION 24
LOADS
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ENGLISH UNITSINTERNAL FORCES IN THE PIPING
FORCES AND MOMENTS ACT ON THE PIPING

SECTION	MEMBER	SEQUENCE	LOCATION	BEG	TYPE	RU	TIME	FX	FY	FZ	MX	MY	MZ	DX	DY	DZ	RX	RY	RZ	STRESS
47	1	266					(SEC)	(LB)	(LB)	(LB)	(FT-LB)	(FT-LB)	(FT-LB)	(IN)	(IN)	(IN)	(DEG)	(DEG)	(DEG)	(PSI)
.2660	5804.	47.	-2805.	772.	-7382.	2196.	.0040	-.0256	-.1097	-.0329	.0616	.0086	3106.							
.2670	6044.	-18.	-2999.	981.	-8082.	2558.	.0037	-.0288	-.1173	-.0324	.0647	.0082	3425.							
.2680	6001.	-91.	-3113.	1166.	-8648.	2835.	.0026	-.0312	-.1239	-.0316	.0672	.0073	3682.							
.2690	5761.	-185.	-3125.	1324.	-9016.	3026.	.0004	-.0328	-.1291	-.0305	.0687	.0058	3853.							
.2700	5221.	-284.	-3037.	1444.	-9180.	3112.	-.0026	-.0333	-.1327	-.0293	.0692	.0040	3933.							
.2710	4250.	-355.	-2872.	1514.	-9171.	3063.	-.0058	-.0328	-.1346	-.0279	.0694	.0022	3927.							
.2720	3012.	-392.	-2647.	1527.	-8981.	2873.	-.0090	-.0311	-.1349	-.0261	.0691	.0007	3833.							
.2730	1841.	-418.	-2368.	1490.	-8563.	2562.	-.0122	-.0283	-.1330	-.0240	.0679	-.0009	3636.							
.2740	862.	-434.	-2044.	1403.	-7909.	2142.	-.0152	-.0244	-.1289	-.0215	.0658	-.0026	3336.							
.2750	-10.	-413.	-1706.	1264.	-7074.	1610.	-.0176	-.0195	-.1227	-.0188	.0633	-.0039	2955.							
.2760	-789.	-331.	-1390.	1072.	-6121.	970.	-.0187	-.0139	-.1149	-.0160	.0607	-.0042	2524.							
.2770	-1296.	-200.	-1110.	836.	-5068.	256.	-.0185	-.0078	-.1055	-.0132	.0582	-.0038	2064.							
.2780	-1354.	-49.	-862.	571.	-3910.	-485.	-.0173	-.0013	-.0947	-.0106	.0551	-.0029	1597.							
.2790	-986.	111.	-646.	292.	-2677.	-1215.	-.0153	.0051	-.0829	-.0082	.0517	-.0016	1185.							
.2800	-362.	286.	-472.	12.	-1443.	-1912.	-.0125	.0112	-.0705	-.0060	.0482	-.0000	961.							
.2810	345.	477.	-350.	-258.	-281.	-2551.	-.0089	.0167	-.0583	-.0039	.0452	.0020	1035.							
.2820	1066.	665.	-269.	-506.	778.	-3094.	-.0048	.0212	-.0466	-.0019	.0425	.0042	1296.							
.2830	1821.	815.	-203.	-716.	1737.	-3496.	-.0009	.0246	-.0358	-.0002	.0398	.0059	1593.							
.2840	2582.	906.	-136.	-878.	2586.	-3729.	.0022	.0266	-.0261	.0011	.0369	.0069	1855.							
.2850	3171.	948.	-67.	-987.	3280.	-3798.	.0046	.0271	-.0180	.0018	.0343	.0074	2052.							
.2860	3371.	958.	-0.	-1041.	3777.	-3720.	.0063	.0262	-.0120	.0019	.0322	.0074	2168.							
.2870	3170.	933.	72.	-1040.	4083.	-3509.	.0073	.0238	-.0082	.0015	.0307	.0069	2200.							
.2880	2775.	853.	161.	-986.	4245.	-3171.	.0071	.0201	-.0063	.0008	.0295	.0054	2163.							
.2890	2328.	714.	261.	-886.	4290.	-2727.	.0058	.0152	-.0062	-.0003	.0285	.0029	2071.							
.2900	1738.	548.	354.	-758.	4202.	-2228.	.0038	.0095	-.0080	-.0015	.0282	-.0004	1933.							
.2910	911.	390.	422.	-617.	3971.	-1724.	.0017	.0031	-.0117	-.0030	.0291	-.0039	1755.							
.2920	21.	245.	461.	-474.	3640.	-1244.	-.0004	-.0038	-.0170	-.0048	.0309	-.0076	1555.							
.2930	-633.	100.	477.	-331.	3280.	-802.	-.0026	-.0108	-.0233	-.0072	.0333	-.0115	1362.							
.2940	-965.	-38.	462.	-195.	2919.	-423.	-.0047	-.0178	-.0305	-.0099	.0362	-.0157	1186.							
.2950	-1122.	-140.	406.	-76.	2538.	-138.	-.0063	-.0246	-.0385	-.0129	.0400	-.0197	1020.							
.2960	-1193.	-191.	298.	22.	2128.	39.	-.0072	-.0312	-.0472	-.0158	.0450	-.0233	854.							
.2970	-1082.	-211.	150.	101.	1716.	126.	-.0075	-.0375	-.0564	-.0184	.0507	-.0268	692.							
.2980	-702.	-223.	-21.	167.	1340.	154.	-.0076	-.0436	-.0658	-.0209	.0569	-.0305	545.							
.2990	-153.	-234.	-198.	226.	999.	144.	-.0077	-.0494	-.0754	-.0232	.0633	-.0343	415.							
.3000	358.	-236.	-376.	285.	667.	112.	-.0078	-.0551	-.0852	-.0254	.0700	-.0381	295.							
.3010	699.	-231.	-546.	354.	324.	81.	-.0079	-.0608	-.0953	-.0276	.0770	-.0416	195.							
.3020	859.	-237.	-692.	442.	-23.	84.	-.0084	-.0665	-.1056	-.0297	.0840	-.0452	181.							
.3030	868.	-276.	-799.	555.	-362.	154.	-.0096	-.0723	-.1159	-.0316	.0905	-.0490	273.							

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2 SAFETY COLD FKW24F--2 PSVCONDITION 24
LOADS
SHOCK
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ENGLISH UNITSINTERNAL FORCES IN THE PIPING
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.2930	-633.	100.	477.	-331.	3280.	-802.	-.0026	-.0108	-.0233	-.0072	.0333	-.0115	1362.
.2940	-965.	-38.	462.	-195.	2919.	-423.	-.0047	-.0178	-.0305	-.0099	.0362	-.0157	1186.
.2950	-1122.	-140.	406.	-76.	2538.	-138.	-.0063	-.0246	-.0385	-.0129	.0400	-.0197	1020.
.2960	-1193.	-191.	298.	21.	2128.	79.	-.0072	-.0312	-.0472	-.0158	.0450	-.0233	854.
.2970	-1082.	-211.	150.	101.	1716.	126.	-.0075	-.0375	-.0564	-.0184	.0507	-.0268	692.
.2980	-702.	-223.	-21.	167.	1340.	154.	-.0076	-.0436	-.0658	-.0209	.0569	-.0305	545.
.2990	-153.	-234.	-198.	226.	999.	144.	-.0077	-.0494	-.0754	-.0232	.0633	-.0343	415.
.3000	358.	-236.	-376.	285.	667.	112.	-.0078	-.0551	-.0852	-.0254	.0700	-.0381	295.
.3010	699.	-231.	-546.	354.	324.	81.	-.0079	-.0608	-.0953	-.0276	.0770	-.0416	195.
.3020	859.	-227.	-692.	442.	-23.	84.	-.0084	-.0665	-.1056	-.0297	.0840	-.0452	181.
.3030	868.	-276.	-799.	555.	-562.	154.	-.0096	-.0723	-.1159	-.0316	.0905	-.0490	273.

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CONDITION 24
LOADS
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INTERNAL FORCES IN THE PIPING
FORCES AND MOMENTS ACT ON THE PIPING

SECTION	MEMBER	SEQUENCE	LOCATION	BEG	TYPE	RU								STRESS
TIME (SEC)	FX (LB)	FY (LB)	FZ (LB)	MX (FT-LB)	MY (FT-LB)	MZ (FT-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (DEG)	RY (DEG)	RZ (DEG)	(PSI)	
.3040	709.	-357.	-865.	697.	-702.	310.	-.0116	-.0783	-.1262	-.0332	.0965	-.0531	416.	
.3050	310.	-468.	-899.	863.	-1072.	551.	-.0141	-.0842	-.1364	-.0343	.1021	-.0573	595.	
.3060	-370.	-596.	-912.	1050.	-1492.	867.	-.0169	-.0902	-.1464	-.0350	.1073	-.0614	810.	
.3070	-1239.	-738.	-906.	1254.	-1946.	1250.	-.0200	-.0960	-.1560	-.0354	.1119	-.0651	1056.	
.3080	-2107.	-898.	-885.	1471.	-2404.	1689.	-.0232	-.1014	-.1648	-.0358	.1157	-.0685	1319.	
.3090	-2848.	-1066.	-858.	1693.	-2853.	2160.	-.0264	-.1061	-.1727	-.0361	.1184	-.0713	1589.	
.3100	-3479.	-1217.	-846.	1903.	-3305.	2621.	-.0292	-.1101	-.1794	-.0363	.1205	-.0732	1857.	
.3110	-4014.	-1331.	-864.	2085.	-3765.	3036.	-.0311	-.1129	-.1848	-.0364	.1219	-.0741	2113.	
.3120	-4331.	-1405.	-915.	2227.	-4204.	3379.	-.0321	-.1144	-.1886	-.0362	.1227	-.0738	2342.	
.3130	-4277.	-1450.	-993.	2323.	-4582.	3634.	-.0323	-.1145	-.1906	-.0357	.1225	-.0727	2525.	
.3140	-3866.	-1458.	-1093.	2368.	-4880.	3778.	-.0317	-.1129	-.1905	-.0351	.1214	-.0706	2653.	
.3150	-3254.	-1414.	-1210.	2353.	-5103.	3787.	-.0303	-.1097	-.1885	-.0344	.1194	-.0673	2719.	
.3160	-2551.	-1312.	-1336.	2279.	-5244.	3647.	-.0279	-.1048	-.1845	-.0337	.1167	-.0630	2722.	
.3170	-1745.	-1169.	-1450.	2147.	-5275.	3369.	-.0251	-.0982	-.1785	-.0330	.1131	-.0578	2655.	
.3180	-842.	-1005.	-1534.	1961.	-5169.	2969.	-.0221	-.0902	-.1704	-.0323	.1083	-.0521	2518.	
.3190	38.	-826.	-1575.	1725.	-4930.	2459.	-.0192	-.0809	-.1606	-.0314	.1026	-.0463	2317.	
.3200	735.	-630.	-1568.	1446.	-4576.	1848.	-.0164	-.0706	-.1492	-.0302	.0961	-.0403	2064.	
.3210	1186.	-422.	-1510.	1134.	-4116.	1155.	-.0138	-.0594	-.1364	-.0287	.0890	-.0342	1775.	
.3220	1419.	-216.	-1392.	800.	-3541.	409.	-.0116	-.0477	-.1224	-.0269	.0813	-.0284	1466.	
.3230	1476.	-24.	-1214.	457.	-2853.	-361.	-.0099	-.0358	-.1074	-.0249	.0728	-.0230	1169.	
.3240	1373.	154.	-984.	112.	-2071.	-1132.	-.0087	-.0240	-.0917	-.0229	.0639	-.0180	948.	
.3250	1119.	321.	-722.	-227.	-1228.	-1884.	-.0077	-.0125	-.0756	-.0208	.0548	-.0134	907.	
.3260	759.	480.	-447.	-552.	-354.	-2596.	-.0066	-.0017	-.0595	-.0185	.0459	-.0091	1075.	
.3270	383.	625.	-172.	-856.	532.	-3246.	-.0055	.0081	-.0435	-.0161	.0372	-.0053	1364.	
.3280	102.	752.	86.	-1127.	1412.	-3810.	-.0043	.0168	-.0279	-.0134	.0289	-.0020	1692.	
.3290	-10.	860.	312.	-1359.	2256.	-4274.	-.0027	.0241	-.0131	-.0107	.0211	.0008	2015.	
.3300	46.	955.	489.	-1544.	3029.	-4625.	-.0008	.0299	.0007	-.0079	.0141	.0033	2303.	
.3310	249.	1037.	610.	-1678.	3699.	-4851.	.0017	.0340	.0131	-.0051	.0080	.0054	2539.	
.3320	603.	1101.	676.	-1755.	4249.	-4938.	.0044	.0362	.0239	-.0026	.0029	.0071	2707.	
.3330	1117.	1137.	690.	-1772.	4666.	-4874.	.0073	.0366	.0329	-.0002	-.0013	.0082	2799.	
.3340	1747.	1139.	655.	-1727.	4932.	-4655.	.0102	.0352	.0398	.0020	-.0046	.0088	2808.	
.3350	2378.	1110.	579.	-1619.	5028.	-4289.	.0129	.0319	.0446	.0039	-.0070	.0087	2730.	
.3360	2917.	1048.	471.	-1451.	4946.	-3784.	.0153	.0270	.0471	.0056	-.0083	.0080	2566.	
.3370	3332.	948.	346.	-1226.	4696.	-3152.	.0170	.0206	.0473	.0071	-.0089	.0065	2322.	
.3380	3606.	807.	215.	-950.	4293.	-2410.	.0180	.0130	.0454	.0083	-.0088	.0044	2012.	
.3390	3690.	632.	87.	-633.	3748.	-1586.	.0181	.0044	.0415	.0092	-.0081	.0015	1653.	
.3400	3543.	432.	-34.	-289.	3077.	-713.	.0174	-.0049	.0358	.0096	-.0068	-.0018	1273.	
.3410	3181.	218.	-145.	70.	2304.	173.	.0160	-.0144	.0285	.0097	-.0051	-.0054	927.	

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S/RV PIPING KEWAUNEE GKW08F 2 RUP DISK
2 SAFETY COLD FKW24F--2 PSV

CONDITION 24
LOADS
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INTERNAL FORCES IN THE PIPING
FORCES AND MOMENTS ACT ON THE PIPING

.3310	249.	1037.	610.	-1678.	3699.	-4851.	.0017	.0340	.0131	-.0051	.0080	.0054	2539.
.3320	603.	1101.	676.	-1755.	4249.	-4938.	.0044	.0362	.0239	-.0026	.0029	.0071	2707.
.3330	1117.	1137.	690.	-1772.	4666.	-4874.	.0073	.0366	.0329	-.0002	-.0013	.0082	2799.
.3340	1747.	1139.	655.	-1727.	4932.	-4655.	.0102	.0352	.0398	.0020	-.0046	.0088	2808.
.3350	2372.	1110.	579.	-1619.	5028.	-4289.	.0129	.0319	.0446	.0039	-.0070	.0087	2730.
.3360	2917.	1048.	471.	-1451.	4946.	-3784.	.0153	.0270	.0471	.0056	-.0083	.0080	2566.
.3370	3332.	948.	346.	-1226.	4696.	-3152.	.0170	.0206	.0473	.0071	-.0089	.0065	2322.
.3380	3606.	807.	215.	-950.	4293.	-2410.	.0180	.0130	.0454	.0083	-.0088	.0044	2012.
.3390	3690.	632.	87.	-633.	3748.	-1586.	.0181	.0044	.0415	.0092	-.0081	.0015	1653.
.3400	3543.	432.	-34.	-289.	3077.	-713.	.0174	-.0049	.0358	.0096	-.0068	-.0018	1273.
.3410	3181.	218.	-145.	70.	2304.	173.	.0160	-.0144	.0285	.0097	-.0051	-.0054	927.

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CONDITION 24

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INTERNAL FORCES IN THE PIPING
FORCES AND MOMENTS ACT ON THE PIPING

SECTION	47	MEMBER	1	SEQUENCE	266	LOCATION	BEG	TYPE	RU						
TIME	FX	FY	FZ	MX	MY	MZ	DX	DY	DZ	RX	RY	RZ	STRESS		
(SEC)	(LB)	(LB)	(LB)	(FT-LB)	(FT-LB)	(FT-LB)	(IN)	(IN)	(IN)	(DEG)	(DEG)	(DEG)	(PSI)		
.3420	2674.	-4.	-247.	430.	1461.	1037.	.0140	-.0239	.0201	.0095	-.0031	-.0093	739.		
.3430	2101.	-224.	-341.	777.	585.	1844.	.0116	-.0329	.0110	.0090	-.0008	-.0133	837.		
.3440	1518.	-430.	-431.	1098.	-293.	2561.	.0090	-.0412	.0017	.0083	.0016	-.0171	1124.		
.3450	962.	-607.	-523.	1378.	-1148.	3154.	.0064	-.0483	-.0076	.0076	.0042	-.0206	1456.		
.3460	493.	-742.	-622.	1607.	-1951.	3602.	.0042	-.0542	-.0164	.0066	.0068	-.0235	1766.		
.3470	192.	-835.	-728.	1777.	-2670.	3895.	.0024	-.0586	-.0243	.0056	.0093	-.0258	2025.		
.3480	102.	-886.	-837.	1887.	-3276.	4032.	.0011	-.0614	-.0310	.0045	.0115	-.0273	2218.		
.3490	204.	-892.	-946.	1935.	-3750.	4016.	.0004	-.0626	-.0361	.0034	.0133	-.0281	2338.		
.3500	444.	-853.	-1051.	1923.	-4088.	3857.	.0003	-.0622	-.0396	.0024	.0147	-.0280	2384.		
.3510	780.	-775.	-1144.	1857.	-4283.	3576.	.0008	-.0604	-.0412	.0016	.0155	-.0272	2360.		
.3520	1185.	-672.	-1214.	1743.	-4328.	3202.	.0017	-.0573	-.0410	.0010	.0157	-.0259	2271.		
.3530	1619.	-558.	-1246.	1592.	-4214.	2767.	.0027	-.0532	-.0388	.0008	.0149	-.0241	2121.		
.3540	1989.	-440.	-1232.	1414.	-3949.	2298.	.0038	-.0481	-.0346	.0009	.0132	-.0221	1919.		
.3550	2194.	-318.	-1169.	1217.	-3552.	1816.	.0048	-.0425	-.0286	.0013	.0106	-.0197	1674.		
.3560	2204.	-199.	-1055.	1007.	-3037.	1343.	.0059	-.0364	-.0208	.0020	.0070	-.0172	1392.		
.3570	2067.	-94.	-888.	795.	-2408.	903.	.0068	-.0301	-.0114	.0030	.0025	-.0146	1080.		
.3580	1834.	-11.	-673.	585.	-1673.	509.	.0074	-.0237	-.0004	.0044	-.0031	-.0121	740.		
.3590	1503.	53.	-417.	381.	-853.	165.	.0079	-.0174	.0121	.0062	-.0097	-.0098	381.		
.3600	1062.	109.	-137.	183.	22.	-134.	.0085	-.0113	.0257	.0083	-.0169	-.0075	91.		
.3610	560.	163.	152.	-9.	929.	-397.	.0094	-.0054	.0403	.0107	-.0246	-.0052	405.		
.3620	115.	213.	440.	-193.	1859.	-626.	.0105	.0001	.0557	.0134	-.0328	-.0030	791.		
.3630	-171.	258.	718.	-368.	2807.	-827.	.0119	.0053	.0718	.0162	-.0414	-.0009	1184.		
.3640	-293.	304.	974.	-533.	3752.	-1011.	.0137	.0100	.0883	.0191	-.0503	.0011	1574.		
.3650	-296.	362.	1198.	-689.	4662.	-1188.	.0160	.0143	.1049	.0221	-.0590	.0031	1950.		
.3660	-187.	433.	1383.	-836.	5516.	-1365.	.0188	.0181	.1212	.0252	-.0675	.0051	2305.		
.3670	84.	509.	1529.	-972.	6309.	-1535.	.0220	.0213	.1371	.0284	-.0757	.0068	2635.		
.3680	536.	578.	1644.	-1092.	7039.	-1688.	.0253	.0239	.1524	.0314	-.0837	.0081	2938.		
.3690	1080.	638.	1733.	-1190.	7688.	-1821.	.0285	.0257	.1666	.0345	-.0912	.0090	3206.		
.3700	1572.	674.	1799.	-1261.	8229.	-1929.	.0316	.0266	.1796	.0374	-.0982	.0094	3429.		
.3710	1936.	742.	1845.	-1302.	8646.	-2004.	.0345	.0267	.1909	.0401	-.1043	.0094	3600.		
.3720	2198.	769.	1882.	-1308.	8947.	-2027.	.0368	.0259	.2004	.0427	-.1098	.0087	3718.		
.3730	2389.	759.	1920.	-1273.	9141.	-1980.	.0383	.0240	.2081	.0451	-.1147	.0072	3788.		
.3740	2441.	712.	1961.	-1198.	9218.	-1856.	.0391	.0212	.2138	.0473	-.1190	.0050	3804.		
.3750	2262.	641.	1997.	-1085.	9157.	-1659.	.0391	.0174	.2174	.0493	-.1222	.0022	3760.		
.3760	1854.	552.	2024.	-935.	8958.	-1392.	.0386	.0128	.2187	.0510	-.1245	-.0009	3657.		
.3770	1341.	438.	2041.	-750.	8646.	-1052.	.0376	.0073	.2181	.0524	-.1258	-.0044	3508.		
.3780	855.	291.	2053.	-531.	8251.	-634.	.0359	.0013	.2156	.0535	-.1266	-.0083	3327.		
.3790	405.	116.	2056.	-285.	7778.	-149.	.0337	-.0052	.2115	.0542	-.1266	-.0125	3124.		

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S/RV PIPING KEWAUNEE GKW08F 2 RUP DISK
2 SAFETY COLD FKW24F--2 PSV

CONDITION 24

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INTERNAL FORCES IN THE PIPING
FORCES AND MOMENTS ACT ON THE PIPING

.3690	1080.	638.	1733.	-1190.	7688.	-1821.	.0285	.0257	.1666	.0345	-.0912	.0090	3206.
.3700	1572.	694.	1799.	-1261.	8229.	-1929.	.0316	.0266	.1796	.0374	-.0982	.0094	3429.
.3710	1936.	742.	1845.	-1302.	8646.	-2004.	.0345	.0267	.1909	.0401	-.1043	.0094	3600.
.3720	2198.	769.	1862.	-1308.	8947.	-2027.	.0368	.0259	.2004	.0427	-.1098	.0087	3718.
.3730	2389.	759.	1920.	-1273.	9141.	-1980.	.0383	.0240	.2081	.0451	-.1147	.0072	3788.
.3740	2441.	712.	1961.	-1198.	9218.	-1856.	.0391	.0212	.2138	.0473	-.1190	.0050	3804.
.3750	2262.	641.	1997.	-1085.	9157.	-1659.	.0391	.0174	.2174	.0493	-.1222	.0022	3760.
.3760	1854.	552.	2024.	-935.	8958.	-1392.	.0386	.0128	.2187	.0510	-.1245	-.0009	3657.
.3770	1341.	438.	2041.	-750.	8646.	-1052.	.0376	.0073	.2181	.0524	-.1258	-.0044	3508.
.3780	855.	291.	2053.	-531.	8251.	-634.	.0359	.0013	.2156	.0535	-.1266	-.0083	3327.
.3790	405.	116.	2056.	-285.	7778.	-149.	.0337	-.0052	.2115	.0542	-.1266	-.0125	3124.

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2 SAFETY COLD FKW24F--2 PSVCONDITION 24
LOADS
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ENGLISH UNITSINTERNAL FORCES IN THE PIPING
FORCES AND MOMENTS ACT ON THE PIPING

SECTION	47	MEMBER	1	SEQUENCE	266	LOCATION	BEG	TYPE	RU						
TIME	FX	FY	FZ	MX	MY	MZ	DX	DY	DZ	RX	RY	RZ	STRESS		
(SEC)	(LB)	(LB)	(LB)	(FT-LB)	(FT-LB)	(FT-LB)	(IN)	(IN)	(IN)	(DEG)	(DEG)	(DEG)	(PSI)		
.3800	-101.	-65.	2039.	-24.	7216.	381.	.0313	-.0120	.2057	.0547	-.1257	-.0166	2900.		
.3810	-715.	-234.	1992.	241.	6557.	930.	.0289	-.0187	.1984	.0548	-.1238	-.0201	2659.		
.3820	-1307.	-393.	1918.	502.	5834.	1487.	.0267	-.0253	.1899	.0545	-.1210	-.0232	2425.		
.3830	-1699.	-556.	1826.	755.	5095.	2047.	.0243	-.0313	.1807	.0538	-.1179	-.0260	2224.		
.3840	-1905.	-715.	1716.	994.	4346.	2587.	.0219	-.0367	.1708	.0528	-.1144	-.0283	2069.		
.3850	-2067.	-848.	1583.	1210.	3570.	3077.	.0198	-.0411	.1603	.0513	-.1104	-.0297	1953.		
.3860	-2239.	-942.	1424.	1391.	2765.	3492.	.0180	-.0443	.1494	.0496	-.1057	-.0300	1872.		
.3870	-2325.	-1009.	1249.	1534.	1962.	3827.	.0164	-.0463	.1384	.0476	-.1008	-.0295	1832.		
.3880	-2238.	-1065.	1076.	1634.	1200.	4085.	.0147	-.0460	.1276	.0451	-.0960	-.0284	1830.		
.3890	-2064.	-1106.	914.	1688.	481.	4253.	.0129	-.0457	.1171	.0424	-.0915	-.0266	1846.		
.3900	-1975.	-1116.	763.	1691.	-213.	4310.	.0110	-.0430	.1069	.0393	-.0871	-.0239	1860.		
.3910	-2046.	-1087.	625.	1643.	-882.	4244.	.0092	-.0387	.0972	.0359	-.0827	-.0202	1860.		
.3920	-2193.	-1033.	512.	1546.	-1496.	4061.	.0072	-.0327	.0881	.0323	-.0787	-.0158	1844.		
.3930	-2312.	-971.	436.	1404.	-2020.	3773.	.0049	-.0252	.0800	.0286	-.0755	-.0111	1807.		
.3940	-2437.	-898.	396.	1219.	-2456.	3383.	.0022	-.0161	.0730	.0248	-.0729	-.0059	1747.		
.3950	-2679.	-799.	380.	987.	-2828.	2885.	-.0004	-.0057	.0670	.0211	-.0708	-.0002	1669.		
.3960	-3065.	-667.	380.	712.	-3143.	2285.	-.0028	-.0059	.0620	.0176	-.0689	.0061	1585.		
.3970	-3458.	-515.	400.	403.	-3372.	1604.	-.0050	.0184	.0583	.0141	-.0677	.0128	1507.		
.3980	-3704.	-357.	442.	69.	-3487.	866.	-.0071	.0317	.0560	.0108	-.0672	.0196	1442.		
.3990	-3798.	-192.	495.	-282.	-3496.	84.	-.0090	.0455	.0552	.0077	-.0674	.0265	1408.		
.4000	-3842.	-2.	546.	-642.	-3430.	-734.	-.0102	.0594	.0556	.0050	-.0680	.0337	1431.		

MAXIMUM VALUE OF STRESS OCCURS AT

TIME	FX	FY	FZ	MX	MY	MZ	DX	DY	DZ	RX	RY	RZ	STRESS		
(SEC)	(LB)	(LB)	(LB)	(FT-LB)	(FT-LB)	(FT-LB)	(IN)	(IN)	(IN)	(DEG)	(DEG)	(DEG)	(PSI)		
.2700	-5221.	284.	3037.	-1444.	9180.	-3112.	-.0026	-.0333	-.1327	-.0293	.0692	.0040	3933.		

SECTION	47	MEMBER	1	SEQUENCE	66	LOCATION	END	TYPE	RU						
TIME	FX	FY	FZ	MX	MY	MZ	DX	DY	DZ	RX	RY	RZ	STRESS		
(SEC)	(LB)	(LB)	(LB)	(FT-LB)	(FT-LB)	(FT-LB)	(IN)	(IN)	(IN)	(DEG)	(DEG)	(DEG)	(PSI)		
0.0000	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.		
.0010	0.	0.	-0.	0.	0.	0.	-.0000	.0000	-.0000	-.0000	.0000	.0000	0.		
.0020	0.	0.	-0.	0.	0.	0.	-.0000	.0000	-.0000	.0000	.0000	.0000	0.		
.0030	0.	0.	-0.	0.	1.	1.	-.0000	.0000	-.0000	.0000	.0000	.0000	1.		

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S/RV PIPING KEWAUNEE GKW08F 2 RUP DISK
2 SAFETY COLD FKW24F--2 PSVCONDITION 24
LOADS
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FORCES AND MOMENTS ACT ON THE PIPING

SECTION	47	MEMBER	1	SEQUENCE	66	LOCATION	END	TYPE	RU						
TIME	FX	FY	FZ	MX	MY	MZ		DX	DY	DZ	FX	RY	FZ	STRESS	
(SEC)	(LB)	(LB)	(LB)	(FT-LB)	(FT-LB)	(FT-LB)		(IN)	(IN)	(IN)	(DEG)	(DEG)	(DEG)	(PSI)	
0.0000	0.	0.	0.	0.	0.	0.		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.	
.0010	0.	0.	-0.	0.	0.	0.		-.0000	.0000	-.0000	-.0000	.0000	.0000	0.	
.0020	0.	0.	-0.	0.	0.	0.		-.0000	.0000	-.0000	-.0000	.0000	.0000	0.	
.0030	0.	0.	-0.	0.	1.	1.		-.0000	.0000	-.0000	.0000	.0000	.0000	1.	

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S/RV PIPING KEWAUNEE GKW08F 2 RUP DISK
2 SAFETY COLD FKW24F--2 PSV

CONDITION 24
LOADS
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PRESSURE
ENGLISH UNITS

INTERNAL FORCES IN THE PIPING
FORCES AND MOMENTS ACT ON THE PIPING

SECTION	47	MEMBER	1	SEQUENCE	66	LOCATION	END	TYPE	RU						
TIME	FX	FY	FZ	MX	MY	MZ		DX	DY	DZ	RX	RY	RZ	STRESS	
(SEC)	(LB)	(LB)	(LB)	(FT-LB)	(FT-LB)	(FT-LB)		(IN)	(IN)	(IN)	(DEG)	(DEG)	(DEG)	(PSI)	
.0040	2.	0.	-1.	0.	2.	2.		-.0000	.0000	-.0000	.0000	.0000	.0000	1.	
.0050	4.	1.	-1.	0.	3.	3.		-.0000	.0000	-.0000	-.0000	.0000	.0000	2.	
.0060	8.	1.	-1.	0.	4.	5.		-.0000	.0000	-.0000	-.0000	.0000	.0000	2.	
.0070	12.	1.	-2.	1.	5.	5.		-.0000	.0000	-.0000	-.0000	.0000	.0000	3.	
.0080	17.	1.	-2.	1.	3.	4.		-.0000	.0000	-.0000	-.0000	.0000	.0000	2.	
.0090	18.	0.	-1.	1.	0.	0.		-.0000	.0000	-.0000	-.0000	.0000	.0000	0.	
.0100	14.	-0.	-1.	-0.	-0.	-1.		-.0000	-.0000	-.0000	-.0000	.0000	.0000	1.	
.0110	4.	-1.	-1.	-1.	2.	-0.		-.0000	.0000	-.0000	-.0000	.0000	.0000	1.	
.0120	-6.	-1.	-0.	-3.	3.	1.		-.0000	.0000	-.0000	.0000	-.0000	.0000	2.	
.0130	-10.	-1.	1.	-6.	-1.	0.		.0000	.0000	.0000	.0001	-.0000	.0000	2.	
.0140	-9.	-2.	2.	-9.	-6.	-1.		.0000	.0000	.0000	.0002	-.0000	-.0000	5.	
.0150	-8.	-2.	2.	-13.	-9.	0.		.0000	.0000	.0001	.0003	-.0000	-.0000	6.	
.0160	-7.	-1.	1.	-17.	-5.	6.		.0000	.0000	.0001	.0003	-.0001	-.0000	7.	
.0170	-5.	-0.	-1.	-20.	2.	14.		-.0000	.0001	.0001	.0004	-.0001	-.0000	10.	
.0180	4.	1.	-3.	-23.	6.	20.		-.0000	.0001	.0000	.0004	-.0001	-.0000	13.	
.0190	20.	1.	-5.	-27.	7.	23.		-.0000	.0001	.0001	.0005	-.0001	-.0000	14.	
.0200	41.	1.	-8.	-31.	5.	24.		-.0001	.0001	.0001	.0006	-.0001	-.0001	16.	
.0210	54.	2.	-10.	-36.	7.	30.		-.0001	.0001	.0001	.0007	-.0001	-.0001	19.	
.0220	53.	3.	-11.	-43.	12.	39.		-.0001	.0002	.0001	.0008	-.0001	-.0001	24.	
.0230	48.	4.	-11.	-51.	12.	46.		-.0001	.0002	.0001	.0009	-.0001	-.0001	28.	
.0240	42.	4.	-8.	-54.	4.	46.		-.0001	.0002	.0001	.0010	-.0001	-.0001	29.	
.0250	32.	4.	-5.	-51.	-7.	40.		-.0000	.0002	.0002	.0011	-.0001	-.0002	26.	
.0260	21.	4.	-2.	-46.	-15.	27.		.0000	.0001	-.0002	.0010	-.0002	-.0002	22.	
.0270	-1.	2.	0.	-50.	-14.	15.		.0001	.0001	.0001	.0008	-.0002	-.0002	22.	
.0280	-36.	0.	3.	-53.	-9.	7.		.0001	.0000	.0001	.0007	-.0002	-.0002	22.	
.0290	-71.	-0.	8.	-44.	-14.	-2.		.0001	.0000	.0001	.0006	-.0002	-.0001	18.	
.0300	-107.	-3.	17.	-35.	-32.	-16.		.0002	-.0000	.0001	.0005	-.0001	-.0001	20.	
.0310	-163.	-5.	29.	-30.	-50.	-28.		.0003	-.0001	.0002	.0005	-.0001	-.0001	26.	
.0320	-194.	-7.	41.	-22.	-74.	-49.		.0004	-.0001	.0002	.0003	.0000	-.0001	37.	
.0330	-176.	-9.	48.	-8.	-95.	-77.		.0005	-.0002	.0002	.0000	.0001	-.0001	49.	
.0340	-179.	-8.	49.	9.	-80.	-83.		.0004	-.0003	.0000	-.0004	.0002	-.0000	46.	
.0350	-251.	-2.	51.	31.	-34.	-67.		.0003	-.0003	-.0001	-.0010	.0004	.0001	33.	
.0360	-312.	-2.	59.	56.	-19.	-77.		.0003	-.0004	-.0003	-.0016	.0005	.0003	39.	
.0370	-271.	-14.	70.	70.	-68.	-140.		.0005	-.0005	-.0003	-.0021	.0006	.0003	68.	
.0380	-189.	-26.	76.	74.	-114.	-192.		.0006	-.0006	-.0002	-.0023	.0007	.0003	94.	
.0390	-191.	-21.	72.	90.	-83.	-161.		.0004	-.0006	-.0003	-.0024	.0009	.0004	81.	
.0400	-259.	-6.	65.	124.	-6.	-82.		.0001	-.0004	-.0005	-.0026	.0011	.0007	60.	
.0410	-273.	-1.	62.	155.	21.	-55.		-.0000	-.0003	-.0005	-.0028	.0012	.0008	67.	

ADLPIPE PAGE 1843 DIS/ADLPIPE ADLPIPE STRESS ANALYSIS 83/12/02. 18.28.58.

S/RV PIPING KEWAUNEE GKW08F 2 RUP DISK
2 SAFETY COLD FKW24F--2 PSV

CONDITION 24
LOADS
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INTERNAL FORCES IN THE PIPING
FORCES AND MOMENTS ACT ON THE PIPING

.0310	-163.	-5.	29.	-30.	-50.	-28.	.0003	-.0001	.0002	.0005	-.0001	-.0001	26.
.0320	-194.	-7.	41.	-22.	-74.	-49.	.0004	-.0001	.0002	.0003	.0000	-.0001	37.
.0330	-176.	-9.	48.	-8.	-95.	-77.	.0005	-.0002	.0002	.0000	.0001	-.0001	49.
.0340	-179.	-8.	49.	9.	-80.	-83.	.0004	-.0003	.0000	-.0004	.0002	-.0000	46.
.0350	-251.	-2.	51.	31.	-34.	-67.	.0007	-.0003	-.0001	-.0010	.0004	.0001	33.
.0360	-312.	-2.	59.	56.	-19.	-77.	.0003	-.0004	-.0003	-.0016	.0005	.0003	39.
.0370	-271.	-14.	70.	70.	-68.	-140.	.0005	-.0005	-.0003	-.0021	.0006	.0003	68.
.0380	-189.	-26.	76.	74.	-114.	-192.	.0006	-.0006	-.0002	-.0023	.0007	.0003	94.
.0390	-191.	-21.	72.	90.	-83.	-161.	.0004	-.0006	-.0003	-.0024	.0009	.0004	81.
.0400	-259.	-6.	65.	174.	-6.	-82.	.0001	-.0004	-.0005	-.0026	.0011	.0007	60.
.0410	-273.	-1.	62.	155.	21.	-55.	-.0000	-.0003	-.0001	-.0026	.0012	.0008	67.

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S/RV PIPING KEWAUNEE GKW08F 2 RUP DISK
2 SAFETY COLD FKW24F--2 PSV

CONDITION 24
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INTERNAL FORCES IN THE PIPING
FORCES AND MOMENTS ACT ON THE PIPING

SECTION	MEMBER	SEQUENCE	LOCATION	END	TYPE	RU	TIME (SEC)	FX (LB)	FY (LB)	FZ (LB)	MX (FT-LB)	MY (FT-LB)	MZ (FT-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (DEG)	RY (DEG)	RZ (DEG)	STRESS (PSI)
47	1	66					.0420	-191.	-15.	65.	172.	-27.	-113.	.0001	-.0004	-.0005	-.0031	.0012	.0008	83.
							.0430	-98.	-30.	63.	183.	-65.	-178.	.0003	-.0006	-.0005	-.0036	.0012	.0008	106.
							.0440	-29.	-34.	45.	193.	-30.	-180.	.0002	-.0006	-.0006	-.0040	.0011	.0009	107.
							.0450	-1.	-25.	16.	200.	69.	-110.	-.0003	-.0005	-.0008	-.0042	.0011	.0011	96.
							.0460	-34.	-12.	-7.	209.	159.	-14.	-.0006	-.0002	-.0009	-.0039	.0010	.0012	106.
							.0470	-31.	-10.	-12.	221.	150.	23.	-.0006	-.0001	-.0008	-.0034	.0010	.0012	108.
							.0480	139.	-25.	-10.	224.	35.	-34.	-.0003	-.0001	-.0005	-.0029	.0008	.0008	92.
							.0490	366.	-37.	-25.	207.	-34.	-76.	-.0002	-.0002	-.0003	-.0025	.0005	.0005	90.
							.0500	385.	-21.	-62.	182.	86.	26.	-.0006	-.0000	-.0004	-.0023	.0003	.0004	82.
							.0510	223.	12.	-99.	157.	290.	205.	-.0013	.0003	-.0007	-.0022	.0003	.0004	156.
							.0520	220.	19.	-112.	122.	318.	252.	-.0013	.0003	-.0007	-.0017	.0001	.0001	170.
							.0530	477.	-3.	-103.	74.	132.	140.	-.0008	.0001	-.0003	-.0010	-.0003	-.0007	83.
							.0540	648.	-11.	-95.	27.	-6.	90.	-.0004	-.0000	.0001	.0000	-.0006	-.0016	38.
							.0550	515.	23.	-103.	-9.	74.	236.	-.0006	.0003	.0002	.0009	-.0006	-.0020	99.
							.0560	339.	67.	-120.	-47.	216.	415.	-.0010	.0005	.0000	.0015	-.0007	-.0025	189.
							.0570	370.	81.	-123.	-99.	209.	434.	-.0010	.0004	.0001	.0018	-.0009	-.0032	197.
							.0580	459.	72.	-104.	-161.	87.	334.	-.0005	.0001	.0003	.0019	-.0011	-.0040	153.
							.0590	401.	71.	-76.	-222.	-2.	268.	.0001	-.0003	.0005	.0020	-.0013	-.0048	140.
							.0600	267.	85.	-54.	-278.	-22.	276.	.0003	-.0004	.0005	.0023	-.0014	-.0054	157.
							.0610	152.	108.	-39.	-326.	-14.	324.	.0003	-.0004	.0006	.0029	-.0015	-.0060	185.
							.0620	-8.	134.	-16.	-364.	-15.	377.	.0004	-.0004	.0007	.0035	-.0015	-.0065	211.
							.0630	-174.	148.	23.	-390.	-76.	368.	.0008	-.0004	.0009	.0039	-.0015	-.0069	217.
							.0640	-216.	140.	67.	-406.	-214.	250.	.0014	-.0008	.0011	.0039	-.0016	-.0073	210.
							.0650	-240.	127.	100.	-414.	-311.	115.	.0019	-.0012	.0012	.0034	-.0018	-.0075	213.
							.0660	-464.	130.	118.	-410.	-255.	82.	.0019	-.0013	.0010	.0025	-.0018	-.0071	197.
							.0670	-760.	136.	133.	-399.	-155.	85.	.0019	-.0014	.0007	.0017	-.0018	-.0065	175.
							.0680	-820.	117.	157.	-380.	-201.	-19.	.0022	-.0015	.0007	.0013	-.0018	-.0059	173.
							.0690	-711.	82.	183.	-345.	-343.	-180.	.0026	-.0016	.0010	.0013	-.0020	-.0053	208.
							.0700	-756.	64.	201.	-280.	-377.	-230.	.0027	-.0014	.0011	.0015	-.0019	-.0043	210.
							.0710	-946.	61.	202.	-193.	-278.	-186.	.0023	-.0010	.0010	.0015	-.0018	-.0028	155.
							.0720	-977.	38.	189.	-108.	-201.	-215.	.0020	-.0008	.0008	.0009	-.0017	-.0012	126.
							.0730	-796.	-12.	167.	-36.	-196.	-354.	.0019	-.0008	.0007	-.0000	-.0018	.0004	163.
							.0740	-623.	-61.	136.	41.	-156.	-471.	.0017	-.0007	.0005	-.0010	-.0018	.0022	200.
							.0750	-536.	-93.	94.	134.	-35.	-483.	.0011	-.0004	.0002	-.0016	-.0017	.0041	202.
							.0760	-415.	-115.	44.	241.	96.	-435.	.0004	.0002	-.0000	-.0017	-.0016	.0060	203.
							.0770	-212.	-138.	-4.	348.	179.	-388.	-.0003	.0009	-.0001	-.0014	-.0015	.0078	221.
							.0780	25.	-166.	-47.	443.	225.	-362.	-.0008	.0014	-.0001	-.0010	-.0013	.0093	247.
							.0790	279.	-176.	-92.	514.	271.	-355.	-.0013	.0018	-.0002	-.0008	-.0012	.0107	273.

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2 SAFETY COLD FKW24F--2 PSV

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INTERNAL FORCES IN THE PIPING
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.0690	-711.	82.	183.	-345.	-343.	-180.	.0026	-.0016	.0010	.0013	-.0020	-.0053	208.
.0700	-756.	64.	201.	-280.	-377.	-239.	.0027	-.0014	.0011	.0015	-.0019	-.0043	210.
.0710	-946.	61.	202.	-193.	-278.	-186.	.0023	-.0010	.0010	.0015	-.0018	-.0028	155.
.0720	-977.	38.	189.	-108.	-201.	-215.	.0020	-.0008	.0001	.0009	-.0017	-.0012	126.
.0730	-796.	-12.	167.	-36.	-196.	-354.	.0019	-.0008	.0007	-.0000	-.0018	.0004	163.
.0740	-627.	-61.	136.	41.	-156.	-471.	.0017	-.0007	.0005	-.0010	-.0018	.0022	200.
.0750	-536.	-93.	94.	134.	-35.	-483.	.0011	-.0004	.0002	-.0016	-.0017	.0041	202.
.0760	-415.	-115.	44.	241.	96.	-435.	.0004	.0002	-.0000	-.0017	-.0016	.0060	203.
.0770	-212.	-138.	-4.	348.	179.	-388.	-.0003	.0009	-.0001	-.0014	-.0015	.0078	221.
.0780	25.	-166.	-47.	443.	225.	-362.	-.0008	.0014	-.0001	-.0010	-.0013	.0093	247.
.0790	279.	-196.	-92.	514.	271.	-355.	-.0013	.0018	-.0002	-.0008	-.0012	.0107	273.

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2 SAFETY COLD FKW24F--2 PSV

CONDITION 24
LOADS
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ENGLISH UNITS

INTERNAL FORCES IN THE PIPING
FORCES AND MOMENTS ACT ON THE PIPING

SECTION	MEMBER	SEQUENCE	LOCATION	END	TYPE	RU	TIME (SEC)	FX (LB)	FY (LB)	FZ (LB)	MX (FT-LB)	MY (FT-LB)	MZ (FT-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (DEG)	RY (DEG)	RZ (DEG)	STRESS (PSI)
47	1	66					.0800	526.	-221.	-145.	555.	356.	-339.	-.0019	.0022	-.0004	-.0009	-.0010	.0119	298.
							.0810	682.	-234.	-199.	574.	492.	-279.	-.0026	.0025	-.0007	-.0012	-.0008	.0129	323.
							.0820	748.	-237.	-236.	576.	607.	-195.	-.0032	.0028	-.0010	-.0012	-.0005	.0136	345.
							.0830	838.	-242.	-247.	561.	605.	-155.	-.0033	.0029	-.0010	-.0007	-.0002	.0136	337.
							.0840	967.	-246.	-234.	527.	496.	-155.	-.0032	.0030	-.0007	.0002	.0001	.0131	297.
							.0850	981.	-234.	-210.	479.	400.	-119.	-.0030	.0030	-.0005	.0012	.0005	.0121	255.
							.0860	803.	-202.	-179.	414.	377.	-27.	-.0029	.0029	-.0005	.0017	.0009	.0110	225.
							.0870	562.	-168.	-138.	320.	347.	31.	-.0026	.0026	-.0005	.0018	.0013	.0095	190.
							.0880	387.	-146.	-78.	197.	225.	-13.	-.0019	.0019	-.0005	.0014	.0017	.0075	120.
							.0890	219.	-125.	-2.	62.	44.	-99.	-.0010	.0011	-.0004	.0010	.0021	.0052	50.
							.0900	-58.	-84.	82.	-70.	-107.	-121.	-.0001	.0004	-.0003	.0008	.0025	.0027	71.
							.0910	-419.	-23.	167.	-195.	-213.	-66.	.0005	-.0002	-.0002	.0009	.0030	.0001	119.
							.0920	-742.	42.	252.	-317.	-331.	-5.	.0012	-.0007	-.0001	.0011	.0035	-.0025	184.
							.0930	-974.	98.	335.	-438.	-482.	9.	.0020	-.0013	.0001	.0013	.0039	-.0052	261.
							.0940	-1163.	146.	408.	-555.	-617.	-6.	.0027	-.0020	.0002	.0010	.0042	-.0076	333.
							.0950	-1367.	193.	462.	-657.	-677.	-6.	.0033	-.0026	.0001	.0005	.0043	-.0096	379.
							.0960	-1573.	239.	496.	-734.	-667.	21.	.0036	-.0031	-.0000	-.0003	.0043	-.0112	398.
							.0970	-1736.	278.	515.	-779.	-638.	53.	.0038	-.0035	-.0001	-.0008	.0041	-.0123	405.
							.0980	-1816.	302.	524.	-790.	-634.	62.	.0040	-.0037	-.0001	-.0010	.0037	-.0130	407.
							.0990	-1808.	309.	521.	-765.	-649.	44.	.0042	-.0037	.0001	-.0009	.0031	-.0132	403.
							.1000	-1753.	302.	496.	-705.	-636.	21.	.0042	-.0036	.0004	-.0006	.0022	-.0128	381.
							.1010	-1710.	282.	447.	-612.	-556.	5.	.0041	-.0033	.0005	-.0006	.0010	-.0118	332.
							.1020	-1685.	245.	381.	-491.	-433.	-29.	.0038	-.0030	.0006	-.0008	-.0003	-.0101	263.
							.1030	-1600.	182.	306.	-351.	-335.	-126.	.0036	-.0027	.0007	-.0011	-.0017	-.0080	201.
							.1040	-1380.	96.	224.	-192.	-295.	-286.	.0035	-.0024	.0010	-.0013	-.0033	-.0057	182.
							.1050	-1139.	8.	130.	-11.	-235.	-414.	.0033	-.0019	.0012	-.0013	-.0048	-.0030	191.
							.1060	-1001.	-64.	27.	189.	-88.	-433.	.0027	-.0011	.0014	-.0010	-.0061	-.0001	193.
							.1070	-889.	-129.	-79.	396.	86.	-400.	.0019	-.0001	.0015	-.0006	-.0070	.0029	229.
							.1080	-545.	-208.	-182.	592.	159.	-447.	.0013	.0006	.0016	-.0004	-.0078	.0056	305.
							.1090	54.	-298.	-287.	764.	155.	-565.	.0007	.0011	.0017	-.0006	-.0083	.0079	386.
							.1100	221.	-340.	-389.	908.	377.	-459.	-.0004	.0018	.0013	-.0012	-.0079	.0103	436.
							.1110	298.	-354.	-483.	1022.	652.	-264.	-.0017	.0026	.0006	-.0019	-.0070	.0123	498.
							.1120	863.	-382.	-562.	1096.	693.	-216.	-.0026	.0029	.0002	-.0026	-.0058	.0131	527.
							.1130	1538.	-393.	-621.	1137.	655.	-157.	-.0035	.0031	-.0002	-.0032	-.0042	.0132	530.
							.1140	1759.	-340.	-656.	1154.	787.	133.	-.0048	.0036	-.0009	-.0037	-.0017	.0129	563.
							.1150	1828.	-258.	-665.	1136.	940.	482.	-.0060	.0039	-.0018	-.0046	.0013	.0119	623.
							.1160	2265.	-198.	-648.	1060.	864.	628.	-.0067	.0036	-.0026	-.0060	.0044	.0098	604.
							.1170	2761.	-141.	-606.	928.	694.	683.	-.0070	.0028	-.0033	-.0079	.0076	.0069	540.

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2 SAFETY COLD FKW24F--2 PSV

CONDITION 24
LOADS
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INTERNAL FORCES IN THE PIPING
FORCES AND MOMENTS ACT ON THE PIPING

.1070	-889.	-129.	-79.	396.	86.	-400.	.0019	-.0001	.0015	-.0006	-.0070	.0029	229.
.1080	-545.	-208.	-182.	592.	159.	-447.	.0013	.0006	.0016	-.0004	-.0078	.0056	305.
.1090	54.	-298.	-287.	764.	155.	-565.	.0007	.0011	.0017	-.0006	-.0083	.0079	386.
.1100	221.	-340.	-389.	908.	377.	-459.	-.0004	.0018	.0013	-.0012	-.0079	.0103	436.
.1110	298.	-354.	-483.	1022.	652.	-264.	-.0017	.0026	.0006	-.0019	-.0070	.0123	498.
.1120	863.	-382.	-562.	1096.	693.	-216.	-.0026	.0029	.0002	-.0026	-.0058	.0131	527.
.1130	1538.	-393.	-621.	1137.	655.	-157.	-.0035	.0031	-.0002	-.0032	-.0042	.0132	530.
.1140	1759.	-340.	-656.	1154.	787.	133.	-.0048	.0036	-.0009	-.0037	-.0017	.0129	563.
.1150	1828.	-258.	-665.	1176.	940.	482.	-.0060	.0039	-.0018	-.0046	.0013	.0119	623.
.1160	2265.	-198.	-648.	1060.	864.	628.	-.0067	.0036	-.0026	-.0060	.0044	.0098	604.
.1170	2761.	-141.	-606.	928.	694.	683.	-.0070	.0028	-.0033	-.0079	.0076	.0069	540.

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CONDITION 24
LOADS
SHOCK
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INTERNAL FORCES IN THE PIPING
FORCES AND MOMENTS ACT ON THE PIPING

SECTION	MEMBER	SEQUENCE	LOCATION	END	TYPE	RU	TIME (SEC)	FX (LB)	FY (LB)	FZ (LB)	MX (FT-LB)	MY (FT-LB)	MZ (FT-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (DEG)	RY (DEG)	RZ (DEG)	STRESS (PSI)
47	1	66					.1180	2624.	-32.	-530.	760.	712.	928.	-.0075	.0022	-.0044	-.0099	.0112	.0038	560.
							.1190	2240.	97.	-415.	573.	709.	1196.	-.0076	.0015	-.0054	-.0118	.0150	.0003	604.
							.1200	2281.	190.	-268.	368.	388.	1212.	-.0070	.0032	-.0059	-.0134	.0184	-.0042	532.
							.1210	2372.	279.	-102.	155.	-29.	1153.	-.0060	-.0012	-.0060	-.0149	.0214	-.0090	467.
							.1220	1814.	414.	73.	-40.	-187.	1306.	-.0053	-.0023	-.0066	-.0163	.0244	-.0133	530.
							.1230	950.	553.	258.	-235.	-253.	1478.	-.0046	-.0033	-.0073	-.0181	.0271	-.0173	609.
							.1240	529.	623.	448.	-451.	-582.	1327.	-.0031	-.0050	-.0074	-.0199	.0288	-.0213	609.
							.1250	340.	649.	634.	-677.	-1034.	1000.	-.0011	-.0068	-.0073	-.0216	.0298	-.0251	638.
							.1260	-280.	703.	798.	-872.	-1238.	877.	.0003	-.0080	-.0072	-.0224	.0304	-.0278	702.
							.1270	-1126.	777.	933.	-1002.	-1254.	922.	.0012	-.0085	-.0072	-.0222	.0306	-.0294	743.
							.1280	-1506.	809.	1034.	-1075.	-1397.	826.	.0023	-.0089	-.0067	-.0213	.0297	-.0305	781.
							.1290	-1534.	795.	1099.	-1095.	-1609.	592.	.0033	-.0092	-.0058	-.0201	.0279	-.0307	816.
							.1300	-1799.	776.	1119.	-1059.	-1590.	450.	.0040	-.0091	-.0052	-.0190	.0256	-.0294	788.
							.1310	-2166.	741.	1085.	-984.	-1369.	353.	.0042	-.0086	-.0049	-.0182	.0225	-.0267	691.
							.1320	-2080.	650.	996.	-882.	-1195.	102.	.0043	-.0082	-.0043	-.0173	.0185	-.0230	597.
							.1330	-1680.	526.	858.	-744.	-1029.	-196.	.0042	-.0074	-.0034	-.0155	.0137	-.0185	516.
							.1340	-1513.	420.	686.	-540.	-671.	-294.	.0035	-.0059	-.0026	-.0126	.0087	-.0128	365.
							.1350	-1459.	320.	494.	-266.	-228.	-275.	.0025	-.0037	-.0016	-.0085	.0033	-.0062	179.
							.1360	-1030.	174.	288.	44.	60.	-409.	.0018	-.0015	-.0002	-.0040	-.0026	.0006	167.
							.1370	-399.	-7.	65.	361.	287.	-667.	.0012	.0004	.0013	.0001	-.0089	.0076	326.
							.1380	-87.	-180.	-175.	663.	710.	-839.	.0003	.0024	.0024	.0034	-.0151	.0152	515.
							.1390	20.	-347.	-422.	937.	1248.	-958.	-.0007	.0043	.0031	.0062	-.0212	.0230	735.
							.1400	374.	-532.	-657.	1180.	1624.	-1188.	-.0014	.0059	.0041	.0091	-.0272	.0302	936.
							.1410	818.	-714.	-856.	1406.	1837.	-1442.	-.0018	.0075	.0053	.0126	-.0327	.0364	1094.
							.1420	886.	-846.	-1006.	1635.	2061.	-1525.	-.0022	.0093	.0066	.0168	-.0374	.0419	1220.
							.1430	721.	-941.	-1106.	1840.	2245.	-1529.	-.0024	.0110	.0077	.0209	-.0412	.0463	1317.
							.1440	762.	-1039.	-1167.	1971.	2245.	-1668.	-.0021	.0119	.0088	.0240	-.0443	.0493	1373.
							.1450	868.	-1125.	-1200.	2006.	2177.	-1882.	-.0016	.0122	.0096	.0254	-.0465	.0510	1408.
							.1460	615.	-1158.	-1201.	1954.	2237.	-1966.	-.0013	.0120	.0096	.0255	-.0475	.0516	1429.
							.1470	132.	-1142.	-1154.	1845.	2302.	-1950.	-.0010	.0116	.0093	.0248	-.0471	.0510	1419.
							.1480	-153.	-1108.	-1046.	1689.	2116.	-1996.	-.0001	.0107	.0091	.0241	-.0458	.0486	1350.
							.1490	-317.	-1045.	-878.	1501.	1720.	-2049.	.0010	.0096	.0092	.0236	-.0434	.0444	1231.
							.1500	-712.	-924.	-671.	1289.	1354.	-1942.	.0021	.0085	.0090	.0229	-.0397	.0393	1082.
							.1510	-1257.	-759.	-447.	1037.	1068.	-1726.	.0029	.0072	.0083	.0213	-.0350	.0334	915.
							.1520	-1624.	-592.	-221.	737.	747.	-1582.	.0036	.0053	.0073	.0181	-.0297	.0267	762.
							.1530	-1864.	-430.	9.	402.	394.	-1516.	.0045	.0030	.0059	.0136	-.0240	.0196	649.
							.1540	-2225.	-254.	245.	72.	92.	-1408.	.0052	.0006	.0043	.0084	-.0178	.0124	567.
							.1550	-2609.	-71.	485.	-229.	-208.	-1250.	.0059	-.0016	.0028	.0034	-.0113	.0053	517.

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S/RV PIPING KEWAUNEE GKM08F 2 RUP DISK
2 SAFETY COLD FKW24F--2 PSV

CONDITION 24
LOADS
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INTERNAL FORCES IN THE PIPING
FORCES AND MOMENTS ACT ON THE PIPING

.1450	768.	-1125.	-1200.	2006.	2177.	-1882.	-.0016	.0122	.0096	.0254	-.0465	.0510	1408.
.1460	615.	-1158.	-1201.	1954.	2237.	-1966.	-.0013	.0120	.0096	.0255	-.0475	.0516	1429.
.1470	132.	-1142.	-1154.	1845.	2302.	-1950.	-.0010	.0116	.0093	.0248	-.0471	.0510	1419.
.1480	-153.	-1108.	-1046.	1689.	2116.	-1996.	-.0001	.0107	.0091	.0241	-.0458	.0486	1350.
.1490	-317.	-1049.	-875.	1501.	1720.	-2049.	.0010	.0096	.0092	.0236	-.0434	.0444	1231.
.1500	-712.	-924.	-671.	1289.	1354.	-1942.	.0021	.0085	.0090	.0229	-.0397	.0393	1082.
.1510	-1257.	-759.	-447.	1037.	1068.	-1726.	.0029	.0072	.0083	.0213	-.0350	.0334	915.
.1520	-1624.	-592.	-221.	737.	747.	-1582.	.0036	.0053	.0073	.0181	-.0297	.0267	762.
.1530	-1864.	-430.	9.	402.	394.	-1516.	.0045	.0030	.0059	.0136	-.0240	.0196	649.
.1540	-2225.	-254.	245.	72.	92.	-1400.	.0052	.0006	.0043	.0084	-.0178	.0124	567.
.1550	-2609.	-71.	485.	-229.	-208.	-1250.	.0059	-.0016	.0021	.0034	-.0113	.0053	517.

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DIS/ADLPIPE S/RV PIPING KEWAUNEE GKW08F 2 RUP DISK
2 SAFETY COLD FKW24F--2 PSV

ADLPIPE STRESS ANALYSIS

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CONDITION 24
LOADS
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INTERNAL FORCES IN THE PIPING
FORCES AND MOMENTS ACT ON THE PIPING

SECTION	MEMBER	SEQUENCE	LOCATION	END	TYPE	RU	TIME (SEC)	FX (LB)	FY (LB)	FZ (LB)	MX (FT-LB)	MY (FT-LB)	MZ (FT-LB)	DX (IN)	DY (IN)	DZ (IN)	FX (DEG)	RY (DEG)	RZ (DEG)	STRESS (PSI)
47	1	66					.1560	-2765.	101.	713.	-491.	-587.	-1104.	.0065	-.0036	.0015	-.0008	-.0048	-.0017	539.
							.1570	-2793.	266.	915.	-706.	-955.	-921.	.0069	-.0052	.0004	-.0042	.0013	-.0082	603.
							.1580	-2919.	429.	1077.	-872.	-1172.	-640.	.0067	-.0064	-.0009	-.0073	.0072	-.0136	640.
							.1590	-3001.	560.	1195.	-1001.	-1298.	-382.	.0064	-.0073	-.0021	-.0105	.0125	-.0179	675.
							.1600	-2827.	634.	1265.	-1087.	-1431.	-263.	.0061	-.0083	-.0033	-.0139	.0169	-.0212	729.
							.1610	-2477.	662.	1284.	-1116.	-1530.	-225.	.0057	-.0091	-.0043	-.0173	.0203	-.0231	765.
							.1620	-2166.	671.	1252.	-1079.	-1488.	-123.	.0049	-.0094	-.0053	-.0199	.0230	-.0237	739.
							.1630	-1851.	666.	1170.	-968.	-1335.	57.	.0036	-.0089	-.0060	-.0214	.0248	-.0230	662.
							.1640	-1358.	631.	1046.	-800.	-1178.	227.	.0022	-.0081	-.0064	-.0216	.0257	-.0213	579.
							.1650	-731.	564.	889.	-594.	-1025.	363.	.0008	-.0068	-.0064	-.0208	.0256	-.0188	497.
							.1660	-150.	476.	705.	-364.	-807.	494.	-.0007	-.0054	-.0063	-.0194	.0248	-.0154	407.
							.1670	390.	368.	498.	-129.	-528.	598.	-.0021	-.0039	-.0062	-.0180	.0233	-.0114	324.
							.1680	991.	240.	275.	100.	-241.	640.	-.0035	-.0024	-.0059	-.0167	.0211	-.0071	277.
							.1690	1598.	110.	47.	320.	49.	657.	-.0048	-.0010	-.0056	-.0151	.0185	-.0028	294.
							.1700	2060.	-5.	-169.	529.	357.	716.	-.0061	.0005	-.0053	-.0131	.0157	.0013	385.
							.1710	2368.	-102.	-354.	718.	629.	797.	-.0071	.0019	-.0047	-.0106	.0127	.0049	499.
							.1720	2623.	-191.	-497.	863.	783.	825.	-.0075	.0031	-.0039	-.0078	.0097	.0076	573.
							.1730	2801.	-269.	-595.	951.	832.	792.	-.0075	.0040	-.0029	-.0050	.0068	.0093	598.
							.1740	2782.	-321.	-651.	977.	856.	749.	-.0072	.0044	-.0021	-.0028	.0041	.0100	602.
							.1750	2551.	-343.	-668.	941.	879.	712.	-.0066	.0045	-.0015	-.0012	.0017	.0098	590.
							.1760	2216.	-338.	-641.	855.	840.	643.	-.0056	.0040	-.0009	-.0003	-.0003	.0085	546.
							.1770	1824.	-312.	-567.	722.	702.	531.	-.0043	.0032	-.0003	.0002	-.0020	.0061	457.
							.1780	1316.	-259.	-449.	553.	498.	418.	-.0026	.0021	.0003	.0004	-.0032	.0027	342.
							.1790	684.	-179.	-296.	347.	261.	330.	-.0008	.0008	.0008	.0005	-.0041	-.0014	219.
							.1800	30.	-82.	-121.	107.	-10.	245.	.0011	-.0006	.0013	.0005	-.0045	-.0061	107.
							.1810	-581.	25.	62.	-154.	-298.	156.	.0031	-.0022	.0017	.0003	-.0048	-.0112	148.
							.1820	-1176.	140.	241.	-424.	-557.	89.	.0048	-.0037	.0019	-.0002	-.0048	-.0163	283.
							.1830	-1747.	259.	408.	-679.	-766.	53.	.0064	-.0052	.0021	-.0009	-.0047	-.0211	411.
							.1840	-2202.	371.	553.	-903.	-951.	19.	.0078	-.0066	.0022	-.0017	-.0045	-.0254	526.
							.1850	-2506.	465.	669.	-1088.	-1109.	-19.	.0089	-.0077	.0023	-.0023	-.0045	-.0290	623.
							.1860	-2718.	543.	747.	-1230.	-1194.	-27.	.0096	-.0085	.0023	-.0027	-.0047	-.0317	688.
							.1870	-2834.	599.	781.	-1330.	-1195.	1.	.0099	-.0088	.0023	-.0026	-.0050	-.0332	717.
							.1880	-2786.	626.	769.	-1380.	-1143.	34.	.0098	-.0088	.0024	-.0021	-.0057	-.0335	719.
							.1890	-2579.	620.	713.	-1371.	-1052.	65.	.0094	-.0084	.0026	-.0010	-.0067	-.0326	694.
							.1900	-2308.	585.	618.	-1297.	-897.	112.	.0087	-.0075	.0028	.0005	-.0080	-.0304	635.
							.1910	-1997.	523.	488.	-1162.	-684.	165.	.0077	-.0063	.0031	.0024	-.0096	-.0271	545.
							.1920	-1583.	427.	329.	-982.	-451.	181.	.0066	-.0049	.0034	.0043	-.0115	-.0228	440.
							.1930	-1085.	302.	144.	-772.	-202.	163.	.0054	-.0033	.0037	.0063	-.0136	-.0177	327.

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DIS/ADLPIPE S/RV PIPING KEWAUNEE GKW08F 2 RUP DISK
2 SAFETY COLD FKW24F--2 PSV

ADLPIPE STRESS ANALYSIS

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CONDITION 24
LOADS
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INTERNAL FORCES IN THE PIPING
FORCES AND MOMENTS ACT ON THE PIPING

.1830	-1747.	259.	408.	-679.	-766.	53.	.0064	-.0052	.0021	-.0009	-.0047	-.0211	411.
.1840	-2202.	371.	553.	-903.	-951.	19.	.0078	-.0066	.0022	-.0017	-.0045	-.0254	526.
.1850	-2564.	465.	669.	-1088.	-1109.	-19.	.0089	-.0077	.0023	-.0023	-.0045	-.0290	623.
.1860	-2718.	543.	747.	-1230.	-1194.	-27.	.0096	-.0085	.0023	-.0027	-.0047	-.0317	688.
.1870	-2834.	599.	781.	-1330.	-1195.	1.	.0099	-.0088	.0023	-.0026	-.0050	-.0332	717.
.1880	-2786.	626.	769.	-1380.	-1143.	34.	.0098	-.0088	.0024	-.0021	-.0057	-.0335	719.
.1890	-2579.	620.	713.	-1371.	-1052.	65.	.0094	-.0084	.0026	-.0010	-.0067	-.0326	694.
.1900	-2308.	585.	618.	-1297.	-897.	112.	.0087	-.0075	.0028	.0005	-.0080	-.0304	635.
.1910	-1997.	523.	488.	-1162.	-684.	165.	.0077	-.0063	.0031	.0024	-.0096	-.0271	545.
.1920	-1583.	427.	329.	-922.	-451.	181.	.0066	-.0049	.0034	.0043	-.0115	-.0228	440.
.1930	-1085.	302.	144.	-772.	-202.	163.	.0054	-.0033	.0037	.0063	-.0136	-.0177	327.

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DIS/ADLPIPE

ADLPIPE STRESS ANALYSIS

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S/RV PIPING KEWAUNEE GKW08F 2 RUP DISK
2 SAFETY COLD FKW24F--2 PSV

CONDITION 24
LOADS
SHOCK
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INTERNAL FORCES IN THE PIPING
FORCES AND MOMENTS ACT ON THE PIPING

SECTION	MEMBER	SEQUENCE	LOCATION	END	TYPE	FU								
TIME (SEC)	FX (LB)	FY (LB)	FZ (LB)	MX (FT-LB)	MY (FT-LB)	MZ (FT-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (DEG)	RY (DEG)	RZ (DEG)	STRESS (PSI)	
.1940	-608.	163.	-56.	-542.	86.	152.	.0040	-.0016	.0040	.0084	-.0156	-.0119	229.	
.1950	-187.	19.	-257.	-299.	387.	158.	.0025	.0003	.0042	.0106	-.0176	-.0059	206.	
.1960	230.	-130.	-445.	-52.	639.	150.	.0011	.0021	.0046	.0129	-.0193	.0001	264.	
.1970	635.	-274.	-611.	190.	824.	124.	-.0001	.0039	.0049	.0152	-.0206	.0057	343.	
.1980	963.	-402.	-748.	412.	973.	104.	-.0011	.0054	.0052	.0171	-.0214	.0108	426.	
.1990	1204.	-507.	-855.	596.	1100.	92.	-.0021	.0067	.0052	.0183	-.0215	.0151	504.	
.2000	1387.	-586.	-929.	729.	1189.	75.	-.0029	.0075	.0050	.0187	-.0209	.0184	561.	
.2010	1502.	-635.	-961.	805.	1227.	55.	-.0036	.0079	.0046	.0182	-.0195	.0206	590.	
.2020	1524.	-648.	-946.	827.	1204.	48.	-.0040	.0080	.0041	.0170	-.0173	.0215	587.	
.2030	1464.	-624.	-880.	799.	1104.	59.	-.0041	.0077	.0034	.0154	-.0142	.0212	547.	
.2040	1352.	-564.	-766.	727.	922.	81.	-.0041	.0070	.0026	.0133	-.0103	.0196	472.	
.2050	1175.	-471.	-613.	616.	692.	119.	-.0039	.0061	.0017	.0107	-.0057	.0169	375.	
.2060	915.	-348.	-431.	467.	447.	173.	-.0035	.0048	.0006	.0073	-.0006	.0134	269.	
.2070	605.	-207.	-227.	286.	194.	221.	-.0031	.0032	-.0007	.0032	.0048	.0092	164.	
.2080	287.	-58.	-10.	83.	-77.	242.	-.0026	.0014	-.0021	-.0014	.0104	.0046	107.	
.2090	-30.	93.	214.	-125.	-361.	248.	-.0020	-.0005	-.0035	-.0062	.0160	-.0002	183.	
.2100	-359.	241.	435.	-323.	-638.	261.	-.0014	-.0023	-.0048	-.0107	.0214	-.0048	306.	
.2110	-680.	381.	643.	-497.	-896.	289.	-.0008	-.0039	-.0060	-.0146	.0264	-.0090	427.	
.2120	-950.	503.	828.	-640.	-1131.	316.	-.0003	-.0052	-.0069	-.0179	.0307	-.0126	536.	
.2130	-1153.	597.	978.	-745.	-1324.	329.	.0000	-.0062	-.0077	-.0206	.0344	-.0153	624.	
.2140	-1295.	658.	1085.	-809.	-1451.	325.	.0002	-.0070	-.0084	-.0227	.0371	-.0169	679.	
.2150	-1370.	683.	1142.	-827.	-1501.	302.	.0002	-.0074	-.0089	-.0243	.0388	-.0172	698.	
.2160	-1359.	669.	1149.	-794.	-1483.	259.	.0000	-.0074	-.0092	-.0251	.0394	-.0164	683.	
.2170	-1259.	620.	1107.	-708.	-1409.	203.	-.0003	-.0070	-.0092	-.0251	.0390	-.0144	638.	
.2180	-1088.	539.	1020.	-572.	-1285.	147.	-.0008	-.0062	-.0089	-.0241	.0375	-.0113	567.	
.2190	-861.	431.	893.	-393.	-1114.	98.	-.0014	-.0049	-.0084	-.0221	.0352	-.0072	476.	
.2200	-580.	300.	732.	-183.	-904.	48.	-.0021	-.0034	-.0076	-.0193	.0320	-.0025	370.	
.2210	-264.	151.	543.	45.	-661.	-10.	-.0029	-.0017	-.0067	-.0160	.0280	.0028	266.	
.2220	54.	-9.	338.	281.	-397.	-80.	-.0036	.0001	-.0057	-.0124	.0236	.0083	198.	
.2230	361.	-172.	128.	512.	-130.	-166.	-.0042	.0018	-.0046	-.0088	.0189	.0138	222.	
.2240	650.	-331.	-77.	729.	119.	-261.	-.0048	.0034	-.0035	-.0053	.0140	.0189	314.	
.2250	897.	-472.	-266.	923.	346.	-349.	-.0051	.0048	-.0024	-.0019	.0092	.0233	419.	
.2260	1067.	-588.	-430.	1084.	543.	-414.	-.0054	.0061	-.0014	.0013	.0047	.0269	514.	
.2270	1158.	-676.	-558.	1201.	687.	-468.	-.0054	.0070	-.0003	.0041	.0007	.0294	586.	
.2280	1188.	-734.	-643.	1267.	758.	-528.	-.0051	.0076	.0006	.0064	-.0028	.0307	629.	
.2290	1147.	-760.	-685.	1278.	764.	-590.	-.0046	.0077	.0014	.0080	-.0056	.0307	643.	
.2300	1011.	-749.	-684.	1233.	730.	-635.	-.0039	.0074	.0019	.0088	-.0075	.0294	629.	
.2310	790.	-701.	-642.	1135.	659.	-657.	-.0030	.0067	.0022	.0087	-.0086	.0269	589.	

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S/RV PIPING KEWAUNEE GKW08F 2 RUP DISK
2 SAFETY COLD FKW24F--2 PSV

CONDITION 24
LOADS
SHOCK
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ENGLISH UNITS

INTERNAL FORCES IN THE PIPING
FORCES AND MOMENTS ACT ON THE PIPING

.2210	-264.	151.	543.	45.	-661.	-10.	-.0029	-.0017	-.0067	-.0160	.0280	.0028	266.
.2220	54.	-9.	338.	281.	-397.	-80.	-.0036	.0001	-.0057	-.0124	.0236	.0083	198.
.2230	361.	-172.	128.	512.	-130.	-166.	-.0042	.0018	-.0046	-.0088	.0189	.0138	222.
.2240	650.	-331.	-77.	729.	119.	-261.	-.0048	.0034	-.0035	-.0053	.0140	.0189	314.
.2250	897.	-472.	-266.	923.	346.	-349.	-.0051	.0040	-.0024	-.0019	.0092	.0233	419.
.2260	1067.	-528.	-430.	1084.	543.	-414.	-.0054	.0061	-.0014	.0013	.0047	.0269	514.
.2270	1158.	-676.	-558.	1201.	687.	-468.	-.0054	.0070	-.0003	.0041	.0007	.0294	586.
.2280	1188.	-734.	-643.	1267.	758.	-528.	-.0051	.0076	.0006	.0064	-.0028	.0307	629.
.2290	1147.	-760.	-685.	1278.	764.	-590.	-.0046	.0077	.0014	.0080	-.0056	.0307	643.
.2300	1011.	-749.	-684.	1233.	730.	-635.	-.0039	.0074	.0019	.0088	-.0075	.0294	629.
.2310	790.	-701.	-642.	1135.	659.	-657.	-.0030	.0067	.0022	.0087	-.0086	.0269	589.

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S/RV PIPING KEWAUNEE GKW08F 2 RUP DISK
2 SAFETY COLD FKW24F--2 PSV

CONDITION 24

LOADS

SHOCK

PRESSURE

ENGLISH UNITS

INTERNAL FORCES IN THE PIPING
FORCES AND MOMENTS ACT ON THE PIPING

SECTION	MEMBER	SEQUENCE	LOCATION	END	TYPE	RU	TIME (SEC)	FX (LB)	FY (LB)	FZ (LB)	MX (FT-LB)	MY (FT-LB)	MZ (FT-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (DEG)	RY (DEG)	FZ (DEG)	STRESS (PSI)
47	1	66					.2320	525.	-622.	-559.	989.	530.	-673.	-.0020	.0056	.0023	.0080	-.0090	.0233	525.
							.2330	225.	-518.	-438.	802.	339.	-684.	-.0008	.0042	.0023	.0067	-.0085	.0187	444.
							.2340	-127.	-390.	-285.	583.	112.	-674.	.0004	.0027	.0022	.0049	-.0073	.0133	360.
							.2350	-516.	-246.	-110.	342.	-136.	-641.	.0017	.0010	.0019	.0029	-.0055	.0075	296.
							.2360	-893.	-95.	77.	90.	-399.	-599.	.0029	-.0008	.0015	.0007	-.0033	.0015	291.
							.2370	-1233.	52.	266.	-162.	-674.	-564.	.0041	-.0026	.0010	-.0018	-.0007	-.0045	358.
							.2380	-1551.	191.	449.	-399.	-935.	-528.	.0051	-.0043	.0005	-.0043	.0020	-.0102	459.
							.2390	-1852.	316.	618.	-609.	-1162.	-485.	.0060	-.0058	-.0001	-.0068	.0047	-.0152	561.
							.2400	-2107.	419.	765.	-784.	-1358.	-445.	.0067	-.0072	-.0006	-.0091	.0073	-.0194	654.
							.2410	-2288.	494.	885.	-917.	-1531.	-422.	.0073	-.0082	-.0011	-.0110	.0097	-.0227	736.
							.2420	-2391.	535.	977.	-1006.	-1687.	-421.	.0077	-.0090	-.0015	-.0124	.0117	-.0249	806.
							.2430	-2440.	544.	1039.	-1047.	-1809.	-432.	.0079	-.0094	-.0017	-.0133	.0133	-.0260	856.
							.2440	-2455.	524.	1066.	-1037.	-1879.	-441.	.0079	-.0094	-.0019	-.0137	.0145	-.0259	879.
							.2450	-2433.	477.	1061.	-977.	-1900.	-455.	.0077	-.0091	-.0020	-.0138	.0153	-.0248	877.
							.2460	-2357.	401.	1029.	-873.	-1895.	-493.	.0074	-.0086	-.0020	-.0135	.0157	-.0227	861.
							.2470	-2214.	297.	976.	-735.	-1892.	-575.	.0071	-.0080	-.0019	-.0130	.0158	-.0199	847.
							.2480	-2038.	175.	908.	-573.	-1881.	-682.	.0067	-.0072	-.0017	-.0124	.0157	-.0165	835.
							.2490	-1889.	51.	827.	-392.	-1824.	-765.	.0061	-.0063	-.0016	-.0118	.0156	-.0127	809.
							.2500	-1760.	-69.	739.	-203.	-1734.	-816.	.0054	-.0053	-.0016	-.0111	.0156	-.0087	773.
							.2510	-1596.	-183.	654.	-16.	-1660.	-867.	.0047	-.0043	-.0016	-.0104	.0157	-.0048	752.
							.2520	-1382.	-289.	581.	159.	-1632.	-935.	.0041	-.0034	-.0016	-.0100	.0161	-.0013	757.
							.2530	-1163.	-378.	526.	313.	-1630.	-1002.	.0035	-.0027	-.0017	-.0100	.0170	.0017	778.
							.2540	-984.	-442.	490.	437.	-1633.	-1049.	.0030	-.0022	-.0020	-.0105	.0183	.0041	798.
							.2550	-859.	-480.	478.	523.	-1643.	-1074.	.0024	-.0020	-.0025	-.0115	.0202	.0058	815.
							.2560	-769.	-496.	499.	564.	-1704.	-1107.	.0021	-.0021	-.0031	-.0131	.0227	.0067	846.
							.2570	-685.	-500.	568.	559.	-1890.	-1205.	.0021	-.0025	-.0037	-.0151	.0258	.0065	927.
							.2580	-710.	-491.	692.	512.	-2184.	-1346.	.0026	-.0034	-.0042	-.0174	.0294	.0054	1050.
							.2590	-986.	-457.	864.	430.	-2504.	-1463.	.0033	-.0045	-.0049	-.0200	.0336	.0037	1177.
							.2600	-1484.	-404.	1081.	314.	-2850.	-1570.	.0043	-.0057	-.0057	-.0230	.0383	.0013	1312.
							.2610	-2071.	-351.	1339.	164.	-3285.	-1737.	.0056	-.0073	-.0065	-.0263	.0434	-.0016	1492.
							.2620	-2700.	-308.	1637.	-10.	-3828.	-1992.	.0073	-.0093	-.0072	-.0300	.0488	-.0050	1732.
							.2630	-3429.	-266.	1958.	-219.	-4402.	-2266.	.0093	-.0113	-.0080	-.0337	.0545	-.0086	1989.
							.2640	-4293.	-205.	2273.	-421.	-4871.	-2436.	.0109	-.0132	-.0089	-.0374	.0604	-.0119	2192.
							.2650	-5173.	-125.	2559.	-614.	-5206.	-2475.	.0119	-.0147	-.0101	-.0408	.0664	-.0149	2326.
							.2660	-5804.	-47.	2805.	-799.	-5501.	-2468.	.0125	-.0158	-.0112	-.0436	.0722	-.0176	2441.
							.2670	-6044.	18.	2999.	-970.	-5784.	-2451.	.0127	-.0168	-.0122	-.0458	.0777	-.0199	2551.
							.2680	-6001.	91.	3113.	-1114.	-5905.	-2309.	.0122	-.0171	-.0133	-.0474	.0828	-.0215	2583.
							.2690	-5761.	185.	3125.	-1217.	-5747.	-1955.	.0105	-.0167	-.0146	-.0484	.0872	-.0220	2485.

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S/RV PIPING KEWAUNEE GKW08F 2 RUP DISK
2 SAFETY COLD FKW24F--2 PSV

CONDITION 24

LOADS

SHOCK

PRESSURE

ENGLISH UNITS

INTERNAL FORCES IN THE PIPING
FORCES AND MOMENTS ACT ON THE PIPING

.2590	-986.	-457.	864.	430.	-2504.	-1463.	.0033	-.0045	-.0049	-.0200	.0336	.0037	1177.
.2600	-1484.	-464.	1081.	314.	-2850.	-1576.	.0043	-.0057	-.0057	-.0230	.0383	.0013	1312.
.2610	-2071.	-351.	1339.	164.	-3285.	-1737.	.0056	-.0073	-.0065	-.0263	.0434	-.0016	1492.
.2620	-2700.	-308.	1637.	-10.	-3828.	-1992.	.0073	-.0093	-.0072	-.0300	.0488	-.0050	1732.
.2630	-3429.	-266.	1950.	-219.	-4402.	-2266.	.0093	-.0113	-.0080	-.0337	.0545	-.0086	1989.
.2640	-4293.	-205.	2273.	-421.	-4871.	-2436.	.0109	-.0132	-.0089	-.0374	.0604	-.0119	2192.
.2650	-5173.	-125.	2559.	-614.	-5206.	-2475.	.0119	-.0147	-.0101	-.0408	.0664	-.0149	2326.
.2660	-5804.	-47.	2805.	-799.	-5501.	-2468.	.0125	-.0158	-.0112	-.0436	.0722	-.0176	2441.
.2670	-6044.	18.	2999.	-970.	-5784.	-2451.	.0127	-.0168	-.0122	-.0458	.0777	-.0199	2551.
.2680	-6001.	91.	3113.	-1114.	-5905.	-2309.	.0122	-.0171	-.0133	-.0474	.0828	-.0215	2583.
.2690	-5761.	185.	3125.	-1217.	-5747.	-1955.	.0105	-.0167	-.0146	-.0484	.0872	-.0220	2485.

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S/RV PIPING KEWAUNEE GKW02F 2 RUP DISK
2 SAFETY COLD FKW24F--2 PSV

CONDITION 24
LOADS
SHOCK
PRESSURE
ENGLISH UNITS

INTERNAL FORCES IN THE PIPING
FORCES AND MOMENTS ACT ON THE PIPING

SECTION	MEMBER	SEQUENCE	LOCATION	END	TYPE	RU	TIME (SEC)	FX (LB)	FY (LB)	FZ (LB)	MX (FT-LB)	MY (FT-LB)	MZ (FT-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (DEG)	RY (DEG)	RZ (DEG)	STRESS (PSI)
47	1	66					.2700	-5221.	284.	3037.	-1280.	-5385.	-1467.	.0078	-.0157	-.0160	-.0486	.0907	-.0215	2298.
							.2710	-4250.	355.	2872.	-1309.	-4996.	-1009.	.0049	-.0144	-.0171	-.0479	.0930	-.0204	2112.
							.2720	-3012.	392.	2647.	-1301.	-4602.	-604.	.0020	-.0128	-.0178	-.0463	.0938	-.0186	1934.
							.2730	-1841.	418.	2368.	-1248.	-4079.	-142.	-.0012	-.0107	-.0183	-.0436	.0933	-.0158	1713.
							.2740	-862.	434.	2044.	-1152.	-3425.	372.	-.0044	-.0083	-.0185	-.0400	.0912	-.0122	1458.
							.2750	10.	413.	1706.	-1025.	-2807.	781.	-.0072	-.0057	-.0181	-.0355	.0874	-.0082	1240.
							.2760	789.	331.	1390.	-881.	-2379.	948.	-.0088	-.0035	-.0170	-.0303	.0819	-.0040	1087.
							.2770	1296.	200.	1110.	-720.	-2107.	903.	-.0092	-.0017	-.0153	-.0247	.0749	.0002	964.
							.2780	1354.	49.	862.	-543.	-1865.	766.	-.0088	-.0001	-.0132	-.0190	.0667	.0044	838.
							.2790	986.	-111.	646.	-357.	-1630.	570.	-.0079	.0013	-.0109	-.0133	.0576	.0086	708.
							.2800	362.	-286.	472.	-177.	-1497.	258.	-.0063	.0023	-.0083	-.0078	.0479	.0123	614.
							.2810	-345.	-477.	350.	-17.	-1546.	-209.	-.0037	.0028	-.0054	-.0025	.0380	.0153	626.
							.2820	-1066.	-665.	269.	122.	-1721.	-754.	-.0006	.0029	-.0024	.0023	.0284	.0173	755.
							.2830	-1821.	-815.	203.	246.	-1862.	-1220.	.0023	.0029	.0003	.0065	.0194	.0186	899.
							.2840	-2582.	-906.	136.	355.	-1881.	-1516.	.0045	.0029	.0025	.0097	.0117	.0193	980.
							.2850	-3171.	-948.	67.	439.	-1838.	-1691.	.0061	.0028	.0041	.0119	.0053	.0191	1017.
							.2860	-3371.	-958.	0.	487.	-1831.	-1827.	.0073	.0024	.0052	.0128	.0005	.0179	1056.
							.2870	-3170.	-933.	-72.	501.	-1833.	-1895.	.0080	.0019	.0058	.0126	-.0028	.0158	1077.
							.2880	-2775.	-853.	-161.	493.	-1712.	-1766.	.0077	.0014	.0058	.0114	-.0042	.0131	1007.
							.2890	-2328.	-714.	-261.	474.	-1436.	-1405.	.0064	.0012	.0050	.0095	-.0039	.0101	828.
							.2900	-1738.	-548.	-354.	441.	-1150.	-944.	.0046	.0011	.0038	.0071	-.0020	.0067	623.
							.2910	-911.	-390.	-422.	391.	-1002.	-535.	.0030	.0007	.0025	.0042	.0010	.0027	482.
							.2920	-21.	-245.	-461.	332.	-957.	-174.	.0014	.0001	.0012	.0009	.0049	-.0016	413.
							.2930	633.	-100.	-477.	274.	-888.	225.	-.0001	-.0005	-.0004	-.0029	.0097	-.0058	384.
							.2940	965.	38.	-462.	217.	-799.	643.	-.0017	-.0011	-.0022	-.0071	.0152	-.0097	421.
							.2950	1122.	140.	-406.	156.	-839.	946.	-.0026	-.0019	-.0038	-.0113	.0209	-.0135	511.
							.2960	1193.	191.	-298.	88.	-1092.	1069.	-.0027	-.0031	-.0051	-.0154	.0268	-.0175	614.
							.2970	1082.	211.	-150.	21.	-1476.	1095.	-.0022	-.0044	-.0061	-.0192	.0327	-.0213	737.
							.2980	702.	223.	21.	-38.	-1865.	1138.	-.0016	-.0056	-.0071	-.0226	.0388	-.0249	877.
							.2990	153.	234.	198.	-91.	-2235.	1211.	-.0010	-.0067	-.0080	-.0257	.0450	-.0282	1021.
							.3000	-358.	236.	376.	-149.	-2638.	1254.	-.0003	-.0078	-.0090	-.0288	.0514	-.0315	1174.
							.3010	-699.	231.	546.	-221.	-3082.	1254.	.0004	-.0090	-.0099	-.0320	.0578	-.0349	1338.
							.3020	-859.	237.	692.	-305.	-3489.	1286.	.0008	-.0102	-.0109	-.0354	.0644	-.0382	1497.
							.3030	-868.	276.	799.	-396.	-3764.	1444.	.0005	-.0110	-.0123	-.0388	.0713	-.0415	1626.
							.3040	-709.	357.	865.	-491.	-3896.	1754.	-.0005	-.0116	-.0140	-.0421	.0784	-.0447	1726.
							.3050	-310.	468.	899.	-593.	-3954.	2157.	-.0021	-.0119	-.0158	-.0452	.0858	-.0480	1823.
							.3060	370.	596.	912.	-706.	-4001.	2583.	-.0040	-.0122	-.0176	-.0481	.0931	-.0513	1932.
							.3070	1239.	738.	906.	-827.	-4016.	3025.	-.0061	-.0124	-.0194	-.0510	.1002	-.0547	2045.

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S/RV PIPING KEWAUNEE GKW02F 2 RUP DISK
2 SAFETY COLD FKW24F--2 PSV

CONDITION 24
LOADS
SHOCK
PRESSURE
ENGLISH UNITS

INTERNAL FORCES IN THE PIPING
FORCES AND MOMENTS ACT ON THE PIPING

.2970	1082.	211.	150.	21.	-1476.	1095.	-.0022	-.0044	-.0061	-.0192	.0327	-.0213	737.
.2980	702.	223.	21.	-38.	-1865.	1138.	-.0016	-.0056	-.0071	-.0226	.0388	-.0249	877.
.2990	153.	234.	198.	-91.	-2235.	1211.	-.0010	-.0067	-.0080	-.0257	.0450	-.0282	1021.
.3000	-358.	276.	376.	-149.	-2638.	1254.	-.0003	-.0078	-.0090	-.0288	.0514	-.0315	1174.
.3010	-699.	271.	546.	-221.	-3082.	1254.	.0004	-.0090	-.0099	-.0320	.0578	-.0349	1338.
.3020	-859.	277.	692.	-305.	-3489.	1286.	.0008	-.0102	-.0109	-.0354	.0644	-.0382	1497.
.3030	-868.	276.	799.	-396.	-3764.	1444.	.0005	-.0110	-.0123	-.0388	.0713	-.0415	1626.
.3040	-709.	357.	865.	-491.	-3896.	1754.	-.0005	-.0116	-.0140	-.0421	.0784	-.0447	1726.
.3050	-710.	468.	899.	-593.	-3954.	2157.	-.0021	-.0119	-.0158	-.0452	.0858	-.0480	1823.
.3060	370.	596.	912.	-706.	-4001.	2583.	-.0040	-.0122	-.0176	-.0481	.0931	-.0513	1932.
.3070	1239.	778.	906.	-827.	-4016.	3025.	-.0061	-.0124	-.0194	-.0510	.1002	-.0547	2045.

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2 SAFETY COLD FKW24F--2 PSV

CONDITION 24
LOADS
SHOCK
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INTERNAL FORCES IN THE PIPING
FORCES AND MOMENTS ACT ON THE PIPING

SECTION	47	MEMBER	1	SEQUENCE	66	LOCATION	END	TYPE	RU						
TIME	FX	FY	FZ	MX	MY	MZ	DX	DY	DZ	RX	RY	RZ	STRESS		
(SEC)	(LB)	(LB)	(LB)	(FT-LB)	(FT-LB)	(FT-LB)	(IN)	(IN)	(IN)	(DEG)	(DEG)	(DEG)	(PSI)		
.3080	2107.	898.	885.	-952.	-3934.	3510.	-.0085	-.0124	-.0214	-.0538	.1070	-.0577	2150.		
.3090	2848.	1066.	858.	-1077.	-3760.	4013.	-.0109	-.0124	-.0234	-.0567	.1133	-.0603	2249.		
.3100	3479.	1217.	846.	-1199.	-3604.	4426.	-.0130	-.0124	-.0252	-.0594	.1188	-.0625	2341.		
.3110	4014.	1331.	864.	-1316.	-3558.	4667.	-.0144	-.0127	-.0266	-.0616	.1231	-.0642	2413.		
.3120	4331.	1405.	915.	-1415.	-3595.	4756.	-.0151	-.0130	-.0274	-.0631	.1262	-.0654	2459.		
.3130	4277.	1450.	993.	-1486.	-3636.	4758.	-.0151	-.0132	-.0278	-.0639	.1279	-.0656	2476.		
.3140	3866.	1458.	1093.	-1525.	-3678.	4662.	-.0147	-.0134	-.0278	-.0638	.1282	-.0649	2460.		
.3150	3254.	1414.	1210.	-1576.	-3783.	4398.	-.0135	-.0135	-.0273	-.0630	.1269	-.0632	2408.		
.3160	2551.	1312.	1336.	-1521.	-3962.	3949.	-.0116	-.0138	-.0263	-.0616	.1240	-.0606	2326.		
.3170	1745.	1169.	1450.	-1471.	-4129.	3400.	-.0094	-.0139	-.0248	-.0596	.1196	-.0570	2226.		
.3180	842.	1005.	1534.	-1380.	-4196.	2850.	-.0073	-.0137	-.0232	-.0568	.1139	-.0523	2109.		
.3190	-38.	826.	1575.	-1248.	-4163.	2322.	-.0054	-.0131	-.0214	-.0532	.1069	-.0466	1977.		
.3200	-735.	630.	1568.	-1082.	-4076.	1797.	-.0036	-.0121	-.0193	-.0488	.0989	-.0401	1840.		
.3210	-1186.	422.	1510.	-890.	-3938.	1286.	-.0022	-.0109	-.0170	-.0436	.0900	-.0332	1700.		
.3220	-1419.	216.	1392.	-675.	-3697.	842.	-.0012	-.0093	-.0147	-.0378	.0804	-.0257	1546.		
.3230	-1476.	24.	1214.	-443.	-3319.	499.	-.0008	-.0073	-.0124	-.0317	.0702	-.0180	1359.		
.3240	-1373.	-154.	984.	-201.	-2833.	243.	-.0009	-.0051	-.0103	-.0254	.0596	-.0102	1144.		
.3250	-1119.	-321.	722.	41.	-2306.	26.	-.0012	-.0029	-.0081	-.0191	.0487	-.0026	926.		
.3260	-759.	-480.	447.	275.	-1794.	-180.	-.0015	-.0007	-.0059	-.0128	.0377	.0044	732.		
.3270	-383.	-625.	172.	495.	-1309.	-372.	-.0016	.0013	-.0037	-.0066	.0268	.0108	581.		
.3280	-102.	-752.	-86.	693.	-854.	-541.	-.0016	.0031	-.0014	-.0006	.0161	.0163	492.		
.3290	10.	-860.	-312.	862.	-458.	-703.	-.0013	.0047	.0008	.0050	.0057	.0207	483.		
.3300	-46.	-955.	-489.	992.	-172.	-901.	-.0005	.0058	.0030	.0101	-.0040	.0240	542.		
.3310	-249.	-1037.	-610.	1078.	-22.	-1154.	.0008	.0063	.0051	.0145	-.0130	.0259	634.		
.3320	-603.	-1101.	-676.	1119.	14.	-1437.	.0027	.0063	.0072	.0179	-.0211	.0264	731.		
.3330	-1117.	-1137.	-690.	1115.	-28.	-1708.	.0047	.0059	.0090	.0205	-.0279	.0257	819.		
.3340	-1747.	-1139.	-655.	1068.	-130.	-1940.	.0069	.0051	.0104	.0220	-.0333	.0237	890.		
.3350	-2378.	-1110.	-579.	978.	-304.	-2137.	.0091	.0040	.0116	.0226	-.0371	.0205	951.		
.3360	-2917.	-1048.	-471.	845.	-535.	-2283.	.0112	.0025	.0124	.0222	-.0393	.0161	1000.		
.3370	-3332.	-948.	-346.	678.	-770.	-2335.	.0128	.0010	.0127	.0210	-.0398	.0109	1024.		
.3380	-3606.	-807.	-215.	483.	-964.	-2262.	.0139	-.0006	.0124	.0188	-.0385	.0050	1006.		
.3390	-3690.	-632.	-87.	268.	-1113.	-2071.	.0143	-.0022	.0116	.0158	-.0356	-.0014	950.		
.3400	-3543.	-432.	34.	39.	-1226.	-1788.	.0141	-.0037	.0103	.0122	-.0312	-.0079	870.		
.3410	-3181.	-218.	145.	-196.	-1307.	-1433.	.0133	-.0052	.0087	.0080	-.0255	-.0145	782.		
.3420	-2674.	4.	247.	-428.	-1348.	-1013.	.0121	-.0064	.0067	.0035	-.0189	-.0208	698.		
.3430	-2101.	224.	341.	-648.	-1347.	-546.	.0105	-.0075	.0045	-.0011	-.0117	-.0266	638.		
.3440	-1518.	430.	431.	-849.	-1324.	-69.	.0087	-.0084	.0023	-.0055	-.0042	-.0317	632.		
.3450	-962.	607.	523.	-1028.	-1323.	357.	.0070	-.0091	.0002	-.0096	.0032	-.0361	687.		

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.3340	-1747.	-1179.	855.	1068.	-130.	-1940.	.0069	.0051	.0104	.0220	-.0333	.0237	890.
.3350	-2378.	-1110.	-579.	978.	-304.	-2137.	.0091	.0040	.0116	.0226	-.0371	.0205	951.
.3360	-2917.	-1048.	-471.	845.	-535.	-2283.	.0112	.0025	.0124	.0222	-.0393	.0161	1000.
.3370	-3332.	-948.	-346.	678.	-770.	-2335.	.0128	.0010	.0127	.0210	-.0398	.0109	1024.
.3380	-3606.	-807.	-215.	483.	-964.	-2382.	.0179	-.0006	.0124	.0188	-.0385	.0050	1006.
.3390	-3690.	-632.	-87.	262.	-1113.	-2071.	.0143	-.0022	.0116	.0158	-.0356	-.0014	950.
.3400	-3543.	-432.	34.	79.	-1226.	-1788.	.0141	-.0037	.0103	.0122	-.0312	-.0079	870.
.3410	-3181.	-218.	145.	-196.	-1307.	-1433.	.0133	-.0052	.0087	.0080	-.0255	-.0145	782.
.3420	-2674.	4.	247.	-428.	-1348.	-1013.	.0121	-.0064	.0067	.0035	-.0189	-.0208	698.
.3430	-2101.	224.	341.	-648.	-1347.	-546.	.0105	-.0075	.0045	-.0011	-.0117	-.0266	638.
.3440	-1518.	430.	431.	-849.	-1324.	-69.	.0087	-.0084	.0023	-.0055	-.0042	-.0317	632.
.3450	-962.	607.	523.	-1028.	-1323.	357.	.0070	-.0091	.0002	-.0096	.0032	-.0361	687.

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SECTION	MEMBER	SEQUENCE	LOCATION	END	TYPE	RU								STRESS
TIME (SEC)	FX (LB)	FY (LB)	FZ (LB)	MX (FT-LB)	MY (FT-LB)	MZ (FT-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (DEG)	RY (DEG)	RZ (DEG)	(PSI)	
.3460	-493.	742.	622.	-1178.	-1364.	696.	.0055	-.0098	-.0017	-.0133	.0101	-.0395	775.	
.3470	-192.	835.	728.	-1295.	-1434.	940.	.0044	-.0103	-.0033	-.0164	.0163	-.0420	862.	
.3480	-102.	886.	837.	-1375.	-1513.	1096.	.0037	-.0107	-.0046	-.0189	.0214	-.0434	931.	
.3490	-204.	892.	946.	-1419.	-1610.	1147.	.0034	-.0110	-.0055	-.0207	.0254	-.0438	977.	
.3500	-444.	853.	1051.	-1430.	-1739.	1080.	.0035	-.0112	-.0059	-.0217	.0279	-.0432	1002.	
.3510	-780.	775.	1144.	-1409.	-1888.	911.	.0041	-.0113	-.0059	-.0219	.0291	-.0418	1014.	
.3520	-1185.	672.	1214.	-1355.	-2014.	629.	.0049	-.0111	-.0055	-.0213	.0288	-.0396	1013.	
.3530	-1619.	558.	1246.	-1270.	-2066.	464.	.0057	-.0108	-.0048	-.0198	.0271	-.0367	991.	
.3540	-1989.	440.	1232.	-1160.	-2036.	248.	.0063	-.0101	-.0040	-.0177	.0240	-.0333	946.	
.3550	-2194.	318.	1169.	-1033.	-1947.	24.	.0069	-.0093	-.0028	-.0149	.0197	-.0295	884.	
.3560	-2204.	199.	1055.	-893.	-1794.	-193.	.0073	-.0084	-.0015	-.0117	.0141	-.0256	808.	
.3570	-2067.	94.	888.	-740.	-1540.	-358.	.0074	-.0072	-.0000	-.0080	.0074	-.0215	701.	
.3580	-1834.	11.	673.	-578.	-1162.	-444.	.0072	-.0058	.0014	-.0040	-.0003	-.0174	550.	
.3590	-1503.	-53.	417.	-411.	-694.	-473.	.0067	-.0042	.0030	.0005	-.0088	-.0133	375.	
.3600	-1062.	-109.	137.	-246.	-202.	-497.	.0062	-.0026	.0047	.0052	-.0182	-.0095	237.	
.3610	-560.	-163.	-152.	-85.	276.	-546.	.0059	-.0011	.0066	.0102	-.0283	-.0061	248.	
.3620	-115.	-213.	-440.	70.	754.	-606.	.0058	.0003	.0087	.0153	-.0391	-.0029	389.	
.3630	171.	-258.	-718.	219.	1247.	-664.	.0059	.0016	.0108	.0205	-.0503	-.0001	574.	
.3640	293.	-304.	-974.	357.	1717.	-748.	.0063	.0028	.0130	.0256	-.0518	.0025	765.	
.3650	296.	-362.	-1198.	480.	2103.	-904.	.0072	.0037	.0154	.0307	-.0735	.0045	939.	
.3660	187.	-433.	-1383.	586.	2382.	-1141.	.0086	.0043	.0180	.0356	-.0852	.0061	1086.	
.3670	-84.	-509.	-1529.	678.	2593.	-1411.	.0104	.0047	.0207	.0404	-.0967	.0072	1216.	
.3680	-536.	-578.	-1644.	758.	2789.	-1657.	.0123	.0049	.0232	.0450	-.1077	.0080	1337.	
.3690	-1080.	-638.	-1733.	821.	2968.	-1874.	.0142	.0051	.0256	.0492	-.1179	.0083	1447.	
.3700	-1572.	-694.	-1799.	860.	3091.	-2086.	.0161	.0051	.0278	.0530	-.1272	.0081	1536.	
.3710	-1936.	-742.	-1845.	874.	3154.	-2291.	.0180	.0050	.0298	.0562	-.1354	.0074	1603.	
.3720	-2198.	-769.	-1882.	863.	3220.	-2423.	.0195	.0047	.0314	.0587	-.1422	.0061	1654.	
.3730	-2389.	-759.	-1920.	835.	3356.	-2411.	.0203	.0046	.0325	.0607	-.1474	.0044	1692.	
.3740	-2441.	-712.	-1961.	786.	3542.	-2267.	.0205	.0046	.0331	.0619	-.1510	.0024	1717.	
.3750	-2262.	-641.	-1997.	714.	3710.	-2052.	.0203	.0045	.0333	.0625	-.1530	-.0003	1725.	
.3760	-1854.	-552.	-2024.	616.	3828.	-1801.	.0198	.0042	.0331	.0625	-.1535	-.0035	1715.	
.3770	-1341.	-438.	-2041.	497.	3946.	-1483.	.0188	.0040	.0326	.0617	-.1524	-.0071	1703.	
.3780	-855.	-291.	-2053.	363.	4129.	-1049.	.0174	.0037	.0315	.0601	-.1499	-.0108	1716.	
.3790	-405.	-116.	-2056.	218.	4356.	-524.	.0156	.0036	.0300	.0580	-.1460	-.0147	1763.	
.3800	101.	65.	-2039.	61.	4529.	-4.	.0136	.0033	.0283	.0553	-.1409	-.0187	1818.	
.3810	715.	234.	-1992.	-106.	4563.	423.	.0120	.0028	.0265	.0523	-.1351	-.0230	1839.	
.3820	1707.	393.	-1910.	-275.	4514.	787.	.0105	.0021	.0248	.0489	-.1285	-.0271	1842.	
.3830	1699.	556.	-1826.	-474.	4492.	1172.	.0090	.0015	.0228	.0453	-.1213	-.0308	1871.	

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.3730	-2389.	-759.	-920.	835.	3356.	-2411.	.0203	.0046	.0325	.0607	-.1474	.0044	1692.
.3740	-2441.	-712.	-1961.	786.	3542.	-2267.	.0205	.0046	.0331	.0619	-.1510	.0024	1717.
.3750	-2262.	-641.	-1997.	714.	3710.	-2052.	.0203	.0045	.0333	.0625	-.1530	-.0003	1725.
.3760	-1054.	-552.	-2024.	616.	3928.	-1801.	.0198	.0042	.0331	.0625	-.1535	-.0035	1715.
.3770	-1341.	-438.	-2041.	497.	3946.	-1483.	.0188	.0040	.0326	.0617	-.1524	-.0071	1703.
.3780	-855.	-291.	-2053.	363.	4129.	-1049.	.0174	.0037	.0315	.0601	-.1499	-.0108	1716.
.3790	-405.	-116.	-2056.	218.	4756.	-524.	.0156	.0036	.0300	.0580	-.1460	-.0147	1763.
.3800	101.	65.	-2039.	61.	4529.	-4.	.0136	.0033	.0283	.0553	-.1409	-.0187	1818.
.3810	715.	234.	-1992.	-106.	4563.	423.	.0120	.0028	.0265	.0523	-.1351	-.0230	1839.
.3820	1707.	393.	-1918.	-275.	4514.	787.	.0105	.0021	.0248	.0489	-.1285	-.0271	1842.
.3830	1699.	556.	-1826.	-474.	4492.	1172.	.0090	.0015	.0228	.0453	-.1213	-.0308	1871.

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INTERNAL FORCES IN THE PIPING
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SECTION	47	MEMBER	1	SEQUENCE	66	LOCATION	END	TYPE	RU					
TIME (SEC)	FX (LB)	FY (LB)	FZ (LB)	MX (FT-LB)	MY (FT-LB)	MZ (FT-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (DEG)	RY (DEG)	RZ (DEG)	STRESS (PSI)	
.3840	1905.	715.	-1716.	-581.	4486.	1553.	.0074	.0009	.0207	.0414	-.1136	-.0339	1919.	
.3850	2067.	848.	-1583.	-720.	4398.	1833.	.0061	.0003	.0186	.0374	-.1057	-.0364	1934.	
.3860	2239.	942.	-1424.	-847.	4182.	1962.	.0053	-.0005	.0168	.0335	-.0977	-.0383	1885.	
.3870	2325.	1009.	-1249.	-951.	3925.	2013.	.0047	-.0012	.0150	.0296	-.0897	-.0394	1811.	
.3880	2238.	1065.	-1076.	-1019.	3738.	2078.	.0038	-.0017	.0132	.0260	-.0817	-.0393	1764.	
.3890	2064.	1106.	-914.	-1049.	3619.	2151.	.0028	-.0018	.0113	.0226	-.0738	-.0381	1741.	
.3900	1975.	1116.	-763.	-1046.	3487.	2152.	.0017	-.0017	.0096	.0195	-.0562	-.0357	1697.	
.3910	2046.	1087.	-625.	-1014.	3316.	2049.	.0007	-.0016	.0080	.0168	-.0590	-.0322	1616.	
.3920	2193.	1033.	-512.	-949.	3192.	1918.	-.0005	-.0011	.0064	.0144	-.0522	-.0276	1542.	
.3930	2312.	971.	-436.	-844.	3209.	1845.	-.0021	-.0002	.0048	.0124	-.0459	-.0216	1523.	
.3940	2437.	898.	-396.	-700.	3340.	1817.	-.0042	.0011	.0032	.0110	-.0401	-.0145	1551.	
.3950	2679.	799.	-380.	-525.	3478.	1743.	-.0063	.0027	.0019	.0102	-.0351	-.0065	1575.	
.3960	3065.	667.	-380.	-327.	3572.	1577.	-.0082	.0044	.0008	.0100	-.0309	.0022	1573.	
.3970	3458.	515.	-400.	-105.	3690.	1376.	-.0100	.0062	.0000	.0104	-.0277	.0116	1581.	
.3980	3704.	357.	-442.	138.	3903.	1203.	-.0120	.0083	-.0007	.0113	-.0254	.0215	1640.	
.3990	3798.	192.	-495.	392.	4170.	1024.	-.0138	.0105	-.0013	.0125	-.0241	.0317	1730.	
.4000	3842.	2.	-546.	644.	4372.	748.	-.0150	.0125	-.0014	.0142	-.0238	.0419	1799.	

MAXIMUM VALUE OF STRESS OCCURS AT

TIME (SEC)	FX (LB)	FY (LB)	FZ (LB)	MX (FT-LB)	MY (FT-LB)	MZ (FT-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (DEG)	RY (DEG)	RZ (DEG)	STRESS (PSI)
.2680	-6001.	91.	3113.	-1114.	-5905.	-2309.	.0122	-.0171	-.0133	-.0474	.0828	-.0215	2583.

SECTION	48	MEMBER	1	SEQUENCE	66	LOCATION	BEG	TYPE	EL					
TIME (SEC)	FX (LB)	FY (LB)	FZ (LB)	MX (FT-LB)	MY (FT-LB)	MZ (FT-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (DEG)	RY (DEG)	RZ (DEG)	STRESS (PSI)	
0.0000	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.	
.0010	-0.	0.	-0.	-0.	-0.	-0.	-.0000	.0000	-.0000	-.0000	.0000	.0000	0.	
.0020	-1.	0.	-0.	-0.	-0.	-0.	-.0000	.0000	-.0000	.0000	.0000	.0000	0.	
.0030	-2.	1.	-0.	-0.	-1.	-1.	-.0000	.0000	-.0000	.0000	.0000	.0000	1.	
.0040	-4.	1.	-1.	-0.	-2.	-2.	-.0000	.0000	-.0000	.0000	.0000	.0000	1.	
.0050	-7.	1.	-0.	-0.	-3.	-3.	-.0000	.0000	-.0000	-.0000	.0000	.0000	2.	
.0060	-11.	1.	0.	-0.	-4.	-5.	-.0000	.0000	-.0000	-.0000	.0000	.0000	2.	
.0070	-15.	-0.	1.	-1.	-5.	-5.	-.0000	.0000	-.0000	-.0000	.0000	.0000	3.	

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TIME (SEC)	FX (LB)	FY (LB)	FZ (LB)	MX (FT-LB)	MY (FT-LB)	MZ (FT-LB)	RX (N)	DY (IN)	DZ (IN)	PX (DEG)	RY (DEG)	RZ (DEG)	STRESS (PSI)
0.0000	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.
.0010	-0.	0.	-0.	-0.	-0.	-0.	-0.0000	.0000	-0.0000	-0.0000	.0000	.0000	0.
.0020	-1.	0.	-0.	-0.	-0.	-0.	-0.0000	.0000	-0.0000	.0000	.0000	.0000	0.
.0030	-2.	1.	-0.	-0.	-1.	-1.	-0.0000	.0000	-0.0000	.0000	.0000	.0000	1.
.0040	-4.	1.	-1.	-0.	-2.	-2.	-0.0000	.0000	-0.0000	.0000	.0000	.0000	1.
.0050	-7.	1.	-0.	-0.	-3.	-3.	-0.0000	.0000	-0.0000	.0000	.0000	.0000	2.
.0060	-11.	1.	0.	-0.	-4.	-5.	-0.0000	.0000	-0.0000	-0.0000	.0000	.0000	2.
.0070	-15.	-0.	1.	-1.	-5.	-5.	-0.0000	.0000	-0.0000	-0.0000	.0000	.0000	3.

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INTERNAL FORCES IN THE PIPING
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SECTION	MEMBER	SEQUENCE	LOCATION	BEG	TYPE	EL	TIME (SEC)	FX (LB)	FY (LB)	FZ (LB)	MX (FT-LB)	MY (FT-LB)	MZ (FT-LB)	DX (IN)	DY (IN)	DZ (IN)	PX (DEG)	RY (DEG)	RZ (DEG)	STRESS (PSI)
48	1	66					.0080	-15.	-2.	3.	-1.	-3.	-4.	-0.0000	.0000	-0.0000	-0.0000	.0000	.0000	2.
							.0090	-11.	-4.	5.	-1.	-0.	-0.	-0.0000	.0000	-0.0000	-0.0000	.0000	.0000	0.
							.0100	-6.	-4.	3.	0.	0.	1.	-0.0000	-0.0000	-0.0000	-0.0000	.0000	.0000	1.
							.0110	-2.	-1.	-2.	1.	-2.	0.	-0.0000	.0000	-0.0000	-0.0000	.0000	.0000	1.
							.0120	2.	2.	-5.	3.	-3.	-1.	-0.0000	.0000	-0.0000	.0000	-0.0000	.0000	2.
							.0130	8.	3.	-5.	6.	1.	-0.	.0000	.0000	.0000	.0001	-0.0000	.0000	2.
							.0140	14.	2.	-2.	9.	6.	1.	.0000	.0000	.0000	.0002	-0.0000	-0.0000	5.
							.0150	16.	2.	-0.	13.	9.	-0.	.0000	.0000	.0001	.0003	-0.0000	-0.0000	6.
							.0160	10.	6.	-3.	17.	5.	-6.	.0000	.0000	.0001	.0003	-0.0001	-0.0000	7.
							.0170	-1.	9.	-6.	20.	-2.	-14.	-0.0000	.0001	.0001	.0004	-0.0001	-0.0000	10.
							.0180	-13.	9.	-7.	23.	-6.	-20.	-0.0000	.0001	.0000	.0004	-0.0001	-0.0000	13.
							.0190	-25.	5.	-2.	27.	-7.	-23.	-0.0000	.0001	.0001	.0005	-0.0001	-0.0000	14.
							.0200	-37.	-2.	6.	31.	-5.	-24.	-0.0001	.0001	.0001	.0006	-0.0001	-0.0001	16.
							.0210	-51.	-5.	11.	36.	-7.	-30.	-0.0001	.0001	.0001	.0007	-0.0001	-0.0001	19.
							.0220	-62.	-2.	8.	43.	-12.	-39.	-0.0001	.0002	.0001	.0008	-0.0001	-0.0001	24.
							.0230	-62.	1.	5.	51.	-12.	-46.	-0.0001	.0002	.0001	.0009	-0.0001	-0.0001	28.
							.0240	-49.	5.	6.	54.	-4.	-46.	-0.0001	.0002	.0001	.0010	-0.0001	-0.0001	29.
							.0250	-31.	6.	12.	51.	7.	-40.	-0.0000	.0002	.0002	.0011	-0.0001	-0.0002	26.
							.0260	-16.	-1.	17.	46.	15.	-27.	.0000	.0001	.0002	.0010	-0.0002	-0.0002	22.
							.0270	2.	-8.	6.	50.	14.	-15.	.0001	.0001	.0001	.0008	-0.0002	-0.0002	22.
							.0280	29.	-4.	-17.	53.	9.	-7.	.0001	.0000	.0001	.0007	-0.0002	-0.0002	22.
							.0290	56.	2.	-23.	44.	14.	2.	.0001	.0000	.0001	.0006	-0.0002	-0.0001	18.
							.0300	93.	5.	-18.	35.	32.	16.	.0002	-0.0000	.0001	.0005	-0.0001	-0.0001	20.
							.0310	153.	20.	-32.	30.	50.	28.	.0003	-0.0001	.0002	.0005	-0.0001	-0.0001	26.
							.0320	209.	24.	-36.	22.	74.	49.	.0004	-0.0001	.0002	.0003	.0000	-0.0001	37.
							.0330	225.	2.	-16.	8.	95.	77.	.0005	-0.0002	.0002	.0000	.0001	-0.0001	49.
							.0340	205.	-6.	-22.	-9.	80.	83.	.0004	-0.0003	.0000	-0.0004	.0002	-0.0000	46.
							.0350	198.	27.	-76.	-31.	34.	67.	.0003	-0.0003	-0.0001	-0.0010	.0004	.0001	33.
							.0360	235.	47.	-114.	-56.	19.	77.	.0003	-0.0004	-0.0003	-0.0016	.0005	.0003	39.
							.0370	290.	2.	-82.	-70.	68.	140.	.0005	-0.0005	-0.0003	-0.0021	.0006	.0003	68.
							.0380	306.	-54.	-33.	-74.	114.	192.	.0006	-0.0006	-0.0002	-0.0023	.0007	.0003	94.
							.0390	256.	-29.	-46.	-90.	83.	161.	.0004	-0.0006	-0.0003	-0.0024	.0009	.0004	81.
							.0400	182.	56.	-98.	-124.	6.	52.	.0001	-0.0004	-0.0005	-0.0026	.0011	.0007	60.
							.0410	149.	92.	-109.	-155.	-21.	55.	-0.0000	-0.0003	-0.0005	-0.0028	.0012	.0008	67.
							.0420	176.	41.	-56.	-172.	27.	113.	.0001	-0.0004	-0.0005	-0.0031	.0012	.0008	83.
							.0430	207.	-18.	-18.	-183.	65.	178.	.0003	-0.0006	-0.0005	-0.0036	.0012	.0008	106.
							.0440	148.	-39.	-21.	-193.	30.	180.	.0002	-0.0006	-0.0006	-0.0040	.0011	.0009	107.
							.0450	-8.	-14.	-51.	-200.	-69.	110.	-0.0003	-0.0005	-0.0008	-0.0042	.0011	.0011	96.

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DIS/ADLPIPE

ADLPIPE STRESS ANALYSIS

83/12/02.

18.28.59.

S/RV PIPING KEWAUNEE GKW08F 2 RUP DISK
2 SAFETY COLD FKW24F--2 PSV

CONDITION 24
LOADS
SHOCK
PRESSURE
ENGLISH UNITS

INTERNAL FORCES IN THE PIPING
FORCES AND MOMENTS ACT ON THE PIPING

.0340	205.	-6.	-12.	-9.	20.	83.	.0004	-.0003	.0000	-.0004	.0002	-.0000	46.
.0350	198.	27.	-76.	-31.	34.	67.	.0003	-.0003	-.0001	-.0010	.0004	.0001	73.
.0360	235.	47.	-114.	-56.	19.	77.	.0003	-.0004	-.0003	-.0016	.0005	.0003	39.
.0370	290.	2.	-82.	-70.	68.	140.	.0005	-.0005	-.0003	-.0021	.0006	.0003	68.
.0380	306.	-54.	-33.	-74.	114.	192.	.0006	-.0006	-.0002	-.0023	.0007	.0003	94.
.0390	256.	-24.	-46.	-90.	83.	161.	.0004	-.0006	-.0003	-.0024	.0009	.0004	81.
.0400	182.	56.	-99.	-124.	6.	52.	.0001	-.0004	-.0005	-.0026	.0011	.0007	60.
.0410	149.	92.	-109.	-155.	-21.	55.	-.0000	-.0003	-.0005	-.0028	.0012	.0008	67.
.0420	176.	41.	-56.	-172.	27.	113.	.0001	-.0004	-.0005	-.0031	.0012	.0008	83.
.0430	207.	-18.	-18.	-183.	65.	178.	.0003	-.0006	-.0005	-.0036	.0012	.0008	106.
.0440	148.	-39.	-21.	-193.	30.	180.	.0002	-.0006	-.0006	-.0040	.0011	.0009	107.
.0450	-8.	-14.	-51.	-200.	-69.	110.	-.0003	-.0005	-.0008	-.0042	.0011	.0011	96.

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DIS/ADLPIPE

ADLPIPE STRESS ANALYSIS

83/12/02.

18.28.59.

S/RV PIPING KEWAUNEE GKW00F 2 RUP DISK
2 SAFETY COLD FKW24F--2 PSV

CONDITION 24
LOADS
SHOCK
PRESSURE
ENGLISH UNITS

INTERNAL FORCES IN THE PIPING
FORCES AND MOMENTS ACT ON THE PIPING

SECTION	MEMBER	SEQUENCE	LOCATION	BEG	TYPE	EL	TIME (SEC)	FX (LB)	FY (LB)	FZ (LB)	MX (FT-LB)	MY (FT-LB)	MZ (FT-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (DEG)	RY (DEG)	RZ (DEG)	STRESS (PSI)
48	1	66					.0460	-129.	57.	-93.	-209.	-159.	14.	-.0006	-.0002	-.0009	-.0039	.0010	.0012	106.
							.0470	-120.	107.	-82.	-221.	-150.	-23.	-.0006	-.0001	-.0008	-.0034	.0010	.0012	108.
							.0480	-66.	48.	42.	-224.	-35.	34.	-.0003	-.0001	-.0005	-.0029	.0008	.0008	92.
							.0490	-126.	-54.	170.	-207.	34.	76.	-.0002	-.0002	-.0003	-.0025	.0005	.0005	90.
							.0500	-311.	-28.	121.	-182.	-86.	-26.	-.0006	-.0000	-.0004	-.0023	.0003	.0004	82.
							.0510	-471.	110.	-56.	-157.	-290.	-205.	-.0013	.0003	-.0007	-.0022	.0003	.0004	156.
							.0520	-494.	128.	-89.	-122.	-318.	-252.	-.0013	.0003	-.0007	-.0017	.0001	.0001	170.
							.0530	-425.	-36.	104.	-74.	-132.	-140.	-.0008	.0001	-.0003	-.0010	-.0003	-.0007	83.
							.0540	-385.	-136.	247.	-27.	6.	-90.	-.0004	-.0000	.0001	.0000	-.0006	-.0016	38.
							.0550	-437.	-20.	154.	9.	-74.	-236.	-.0006	.0003	.0002	.0009	-.0006	-.0020	99.
							.0560	-544.	114.	14.	47.	-216.	-415.	-.0010	.0005	.0000	.0015	-.0007	-.0025	189.
							.0570	-589.	61.	33.	99.	-209.	-434.	-.0010	.0004	.0001	.0018	-.0009	-.0032	197.
							.0580	-481.	-76.	112.	161.	-87.	-334.	-.0005	.0001	.0003	.0019	-.0011	-.0040	153.
							.0590	-292.	-130.	96.	222.	2.	-268.	.0001	-.0003	.0005	.0020	-.0013	-.0048	140.
							.0600	-185.	-121.	36.	278.	22.	-275.	.0003	-.0004	.0005	.0023	-.0014	-.0054	157.
							.0610	-183.	-108.	6.	326.	14.	-324.	.0003	-.0004	.0006	.0029	-.0015	-.0060	185.
							.0620	-135.	-61.	-40.	364.	15.	-377.	.0004	-.0004	.0007	.0035	-.0015	-.0065	211.
							.0630	46.	-19.	-82.	390.	76.	-368.	.0008	-.0004	.0009	.0039	-.0015	-.0069	217.
							.0640	262.	-88.	-32.	406.	214.	-250.	.0014	-.0008	.0011	.0039	-.0016	-.0073	210.
							.0650	405.	-194.	18.	414.	311.	-115.	.0019	-.0012	.0012	.0034	-.0018	-.0075	213.
							.0660	500.	-168.	-102.	410.	255.	-82.	.0019	-.0013	.0010	.0025	-.0018	-.0071	197.
							.0670	613.	-72.	-285.	399.	155.	-85.	.0019	-.0014	.0007	.0017	-.0018	-.0065	175.
							.0680	740.	-102.	-281.	380.	201.	19.	.0022	-.0015	.0007	.0013	-.0018	-.0059	173.
							.0690	851.	-201.	-133.	345.	343.	180.	.0026	-.0016	.0010	.0013	-.0020	-.0053	208.
							.0700	925.	-151.	-99.	280.	377.	230.	.0027	-.0014	.0011	.0015	-.0019	-.0043	210.
							.0710	940.	19.	-196.	193.	278.	186.	.0023	-.0010	.0010	.0015	-.0018	-.0028	155.
							.0720	896.	79.	-222.	108.	201.	215.	.0020	-.0008	.0008	.0009	-.0017	-.0012	126.
							.0730	839.	-7.	-142.	36.	196.	354.	.0019	-.0008	.0007	-.0000	-.0018	.0004	163.
							.0740	773.	-58.	-101.	-41.	156.	471.	.0017	-.0007	.0005	-.0010	-.0018	.0022	200.
							.0750	638.	0.	-124.	-134.	35.	483.	.0011	-.0004	.0002	-.0016	-.0017	.0041	202.
							.0760	409.	91.	-108.	-241.	-96.	435.	.0004	.0002	-.0000	-.0017	-.0016	.0060	203.
							.0770	166.	163.	-24.	-348.	-179.	388.	-.0003	.0009	-.0001	-.0014	-.0015	.0078	221.
							.0780	-27.	218.	72.	-443.	-225.	362.	-.0008	.0014	-.0001	-.0010	-.0013	.0093	247.
							.0790	-212.	236.	153.	-514.	-271.	355.	-.0013	.0018	-.0002	-.0008	-.0012	.0107	273.
							.0800	-449.	219.	202.	-555.	-356.	339.	-.0019	.0022	-.0004	-.0009	-.0010	.0119	298.
							.0810	-701.	230.	181.	-574.	-492.	279.	-.0026	.0025	-.0007	-.0012	-.0005	.0129	323.
							.0820	-879.	278.	128.	-576.	-607.	195.	-.0032	.0028	-.0010	-.0012	-.0005	.0136	345.
							.0830	-947.	287.	148.	-561.	-605.	155.	-.0033	.0029	-.0010	-.0007	-.0002	.0136	337.

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DIS/ADLPIPE

ADLPIPE STRESS ANALYSIS

83/12/02.

18.28.59.

S/RV PIPING KEWAUNEE GKW00F 2 RUP DISK
2 SAFETY COLD FKW24F--2 PSV

CONDITION 24
LOADS
SHOCK
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ENGLISH UNITS

INTERNAL FORCES IN THE PIPING
FORCES AND MOMENTS ACT ON THE PIPING

.0730	839.	-7.	142.	36.	196.	354.	.0019	-.0008	.0007	-.0000	-.0018	.0004	163.
.0740	773.	-56.	-101.	-41.	156.	471.	.0017	-.0007	.0005	-.0010	-.0018	.0022	200.
.0750	638.	0.	-124.	-134.	35.	483.	.0011	-.0004	.0002	-.0016	-.0017	.0041	202.
.0760	469.	91.	-108.	-241.	-96.	435.	.0004	.0002	-.0000	-.0017	-.0016	.0060	203.
.0770	166.	163.	-24.	-348.	-179.	388.	-.0003	.0009	-.0001	-.0014	-.0015	.0078	221.
.0780	-27.	218.	72.	-443.	-225.	362.	-.0008	.0014	-.0001	-.0010	-.0013	.0093	247.
.0790	-212.	236.	153.	-514.	-271.	355.	-.0013	.0018	-.0002	-.0008	-.0012	.0107	273.
.0800	-449.	219.	202.	-555.	-350.	339.	-.0019	.0022	-.0004	-.0009	-.0010	.0119	298.
.0810	-701.	230.	181.	-574.	-492.	279.	-.0026	.0025	-.0007	-.0012	-.0008	.0129	323.
.0820	-879.	278.	128.	-576.	-607.	195.	-.0032	.0028	-.0010	-.0012	-.0005	.0136	345.
.0830	-947.	297.	146.	-561.	-605.	155.	-.0033	.0029	-.0010	-.0007	-.0002	.0136	337.

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DIS/ADLPIPE

ADLPIPE STRESS ANALYSIS

83/12/02.

18.28.59.

S/RV PIPING KEWAUNEE GKWOOF 2 RUP DISK
2 SAFETY COLD FKW24F--2 PSV

CONDITION 24

LOADS

SHOCK

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ENGLISH UNITS

INTERNAL FORCES IN THE PIPING
FORCES AND MOMENTS ACT ON THE PIPING

SECTION	48	MEMBER	1	SEQUENCE	66	LOCATION	BEG	TYPE	EL						
TIME	FX	FY	FZ	MX	MY	MZ		DX	DY	DZ	RX	RY	RZ	STRESS	
(SEC)	(LB)	(LB)	(LB)	(FT-LB)	(FT-LB)	(FT-LB)		(IN)	(IN)	(IN)	(DEG)	(DEG)	(DEG)	(PSI)	
.0840	-938.	244.	249.	-527.	-496.	155.		-.0032	.0030	-.0007	.0002	.0001	.0131	297.	
.0850	-896.	236.	301.	-479.	-400.	119.		-.0030	.0030	-.0005	.0012	.0005	.0121	255.	
.0860	-823.	232.	226.	-414.	-377.	27.		-.0029	.0029	-.0005	.0017	.0009	.0110	225.	
.0870	-684.	309.	108.	-320.	-347.	-31.		-.0026	.0026	-.0005	.0018	.0013	.0095	190.	
.0880	-451.	212.	46.	-197.	-225.	13.		-.0019	.0019	-.0005	.0014	.0017	.0075	120.	
.0890	-144.	73.	10.	-62.	-44.	99.		-.0010	.0011	-.0004	.0010	.0021	.0052	50.	
.0900	171.	10.	-78.	70.	107.	121.		-.0001	.0004	-.0003	.0008	.0025	.0027	71.	
.0910	450.	23.	-207.	195.	213.	66.		.0005	-.0002	-.0002	.0009	.0030	.0001	119.	
.0920	707.	30.	-306.	317.	331.	5.		.0012	-.0007	-.0001	.0011	.0035	-.0025	184.	
.0930	971.	-16.	-360.	438.	482.	-9.		.0020	-.0013	.0001	.0013	.0039	-.0052	261.	
.0940	1226.	-88.	-419.	555.	617.	6.		.0027	-.0020	.0002	.0010	.0042	-.0076	333.	
.0950	1426.	-139.	-525.	657.	677.	6.		.0033	-.0026	.0001	.0005	.0043	-.0096	379.	
.0960	1548.	-156.	-655.	734.	667.	-21.		.0036	-.0031	-.0000	-.0003	.0043	-.0112	398.	
.0970	1626.	-152.	-758.	779.	638.	-53.		.0038	-.0035	-.0001	-.0008	.0041	-.0123	405.	
.0980	1694.	-143.	-794.	790.	634.	-62.		.0040	-.0037	-.0001	-.0010	.0037	-.0130	407.	
.0990	1734.	-139.	-758.	765.	649.	-44.		.0042	-.0037	.0001	-.0009	.0031	-.0132	403.	
.1000	1706.	-127.	-687.	705.	636.	-21.		.0042	-.0036	.0004	-.0006	.0022	-.0128	381.	
.1010	1615.	-86.	-634.	612.	556.	-5.		.0041	-.0033	.0005	-.0006	.0010	-.0118	332.	
.1020	1517.	-24.	-605.	491.	433.	29.		.0038	-.0030	.0006	-.0008	-.0003	-.0101	263.	
.1030	1446.	7.	-537.	351.	335.	126.		.0036	-.0027	.0007	-.0011	-.0017	-.0080	201.	
.1040	1362.	-25.	-371.	192.	295.	286.		.0035	-.0024	.0010	-.0013	-.0033	-.0057	182.	
.1050	1220.	-23.	-190.	11.	235.	414.		.0033	-.0019	.0012	-.0013	-.0048	-.0030	191.	
.1060	1017.	103.	-91.	-139.	88.	433.		.0027	-.0011	.0014	-.0010	-.0061	-.0001	193.	
.1070	785.	281.	-25.	-396.	-86.	400.		.0019	-.0001	.0015	-.0006	-.0070	.0029	229.	
.1080	516.	320.	177.	-592.	-159.	447.		.0013	.0006	.0016	-.0004	-.0078	.0056	305.	
.1090	163.	199.	502.	-764.	-155.	565.		.0007	.0011	.0017	-.0006	-.0083	.0079	386.	
.1100	-149.	356.	458.	-908.	-377.	459.		-.0004	.0018	.0013	-.0012	-.0079	.0102	436.	
.1110	-482.	575.	308.	-1022.	-652.	264.		-.0017	.0026	.0006	-.0019	-.0070	.0123	498.	
.1120	-931.	479.	493.	-1096.	-693.	216.		-.0026	.0029	.0002	-.0026	-.0058	.0131	527.	
.1130	-1413.	316.	750.	-1137.	-655.	157.		-.0035	.0031	-.0002	-.0032	-.0042	.0132	530.	
.1140	-1810.	441.	676.	-1154.	-787.	-133.		-.0048	.0036	-.0009	-.0037	-.0017	.0129	563.	
.1150	-2141.	617.	488.	-1176.	-940.	-482.		-.0060	.0039	-.0018	-.0046	.0013	.0119	623.	
.1160	-2476.	458.	569.	-1020.	-864.	-628.		-.0067	.0036	-.0026	-.0060	.0044	.009	604.	
.1170	-2758.	146.	709.	-928.	-694.	-683.		-.0070	.0028	-.0033	-.0079	.0076	.0069	540.	
.1180	-2821.	149.	435.	-760.	-712.	-928.		-.0075	.0022	-.0044	-.0099	.0112	.0038	560.	
.1190	-2693.	238.	50.	-573.	-709.	-1196.		-.0076	.0015	-.0054	-.0118	.0150	.0003	604.	
.1200	-2515.	-14.	69.	-388.	-388.	-1212.		-.0070	.0002	-.0059	-.0134	.0184	-.0042	532.	
.1210	-2294.	-356.	191.	-155.	29.	-1153.		-.0060	-.0012	-.0060	-.0149	.0214	-.0090	467.	

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DIS/ADLPIPE

ADLPIPE STRESS ANALYSIS

83/12/02.

18.28.59.

S/RV PIPING KEWAUNEE GKWOOF 2 RUP DISK
2 SAFETY COLD FKW24F--2 PSV

CONDITION 24

LOADS

SHOCK

PRESSURE

ENGLISH UNITS

INTERNAL FORCES IN THE PIPING
FORCES AND MOMENTS ACT ON THE PIPING

.1110	-482.	575.	308.	-1022.	-652.	264.	-.0017	.0026	.0006	-.0019	-.0070	.0123	498.
.1120	-931.	479.	493.	-1096.	-693.	216.	-.0026	.0029	.0002	-.0026	-.0058	.0131	527.
.1130	-1413.	316.	750.	-1127.	-655.	157.	-.0035	.0031	-.0002	-.0032	-.0042	.0132	530.
.1140	-1810.	441.	676.	-1154.	-787.	-133.	-.0040	.0036	-.0009	-.0037	-.0017	.0129	563.
.1150	-2141.	617.	428.	-1176.	-940.	-482.	-.0060	.0039	-.0018	-.0046	.0013	.0119	623.
.1160	-2476.	458.	569.	-1060.	-864.	-628.	-.0067	.0036	-.0026	-.0060	.0044	.0098	604.
.1170	-2758.	146.	709.	-928.	-694.	-683.	-.0070	.0028	-.0033	-.0079	.0076	.0069	540.
.1180	-2821.	149.	435.	-760.	-712.	-928.	-.0075	.0022	-.0044	-.0099	.0112	.0038	560.
.1190	-2693.	278.	55.	-573.	-707.	-1196.	-.0076	.0015	-.0054	-.0118	.0150	.0003	604.
.1200	-2515.	-14.	69.	-368.	-382.	-1212.	-.0070	.0002	-.0059	-.0134	.0184	-.0042	532.
.1210	-2294.	-356.	191.	-155.	29.	-1153.	-.0060	-.0018	-.0060	-.0149	.0214	-.0090	467.

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ADLPIPE STRESS ANALYSIS

83/12/02.

18.28.59.

S/RV PIPING KEWAUNEE GKW02F 2 RUP DISK
2 SAFETY COLD FKW24F--2 PSV

CONDITION 24
LOADS
SHOCK
PRESSURE
ENGLISH UNITS

INTERNAL FORCES IN THE PIPING
FORCES AND MOMENTS ACT ON THE PIPING

SECTION	48	MEMBER	1	SEQUENCE	66	LOCATION	BEG	TYPE	EL						
TIME	FX	FY	FZ	MX	MY	MZ									STRESS
(SEC)	(LB)	(LB)	(LB)	(FT-LB)	(FT-LB)	(FT-LB)	(IN)	(IN)	(IN)	(DEG)	(DEG)	(DEG)	(PSI)		
.1220	-1928.	-333.	-97.	40.	187.	-1306.	-.0053	-.0023	-.0066	-.0163	.0244	-.0133	530.		
.1230	-1412.	-187.	-569.	235.	253.	-1478.	-.0046	-.0033	-.0073	-.0181	.0271	-.0173	609.		
.1240	-831.	-414.	-694.	451.	582.	-1327.	-.0031	-.0050	-.0074	-.0199	.0288	-.0213	609.		
.1250	-223.	-825.	-630.	677.	1034.	-1000.	-.0011	-.0068	-.0073	-.0216	.0298	-.0251	638.		
.1260	408.	-899.	-862.	872.	1238.	-877.	.0003	-.0080	-.0072	-.0224	.0304	-.0278	702.		
.1270	963.	-713.	-1239.	1002.	1254.	-922.	.0012	-.0085	-.0072	-.0222	.0306	-.0294	743.		
.1280	1349.	-720.	-1272.	1075.	1397.	-826.	.0023	-.0089	-.0067	-.0213	.0297	-.0305	781.		
.1290	1618.	-877.	-1068.	1095.	1609.	-592.	.0033	-.0092	-.0058	-.0201	.0279	-.0307	816.		
.1300	1879.	-816.	-1090.	1059.	1590.	-450.	.0040	-.0091	-.0052	-.0190	.0256	-.0294	788.		
.1310	2075.	-628.	-1270.	984.	1369.	-353.	.0042	-.0086	-.0049	-.0182	.0225	-.0267	691.		
.1320	2059.	-662.	-1192.	882.	1195.	-102.	.0043	-.0082	-.0043	-.0173	.0185	-.0230	597.		
.1330	1841.	-784.	-921.	744.	1029.	196.	.0042	-.0074	-.0034	-.0155	.0137	-.0185	516.		
.1340	1558.	-599.	-813.	540.	671.	294.	.0035	-.0059	-.0026	-.0126	.0087	-.0128	365.		
.1350	1250.	-206.	-758.	266.	228.	275.	.0025	-.0037	-.0016	-.0085	.0033	-.0062	179.		
.1360	871.	-3.	-413.	-44.	-60.	409.	.0018	-.0015	-.0002	-.0040	-.0026	.0006	167.		
.1370	454.	49.	61.	-361.	-287.	667.	.0012	.0004	.0013	.0001	-.0089	.0076	326.		
.1380	91.	258.	249.	-663.	-710.	839.	.0003	.0024	.0024	.0034	-.0151	.0152	515.		
.1390	-234.	548.	249.	-937.	-1248.	958.	-.0007	.0043	.0031	.0062	-.0212	.0230	735.		
.1400	-581.	641.	452.	-1180.	-1624.	1188.	-.0014	.0059	.0041	.0091	-.0272	.0302	936.		
.1410	-883.	666.	800.	-1406.	-1837.	1442.	-.0018	.0075	.0053	.0126	-.0327	.0364	1094.		
.1420	-1014.	934.	975.	-1635.	-2061.	1525.	-.0022	.0093	.0066	.0168	-.0374	.0419	1220.		
.1430	-989.	1302.	1038.	-1840.	-2245.	1529.	-.0024	.0110	.0077	.0209	-.0412	.0463	1317.		
.1440	-921.	1409.	1241.	-1971.	-2245.	1668.	-.0021	.0119	.0088	.0240	-.0443	.0493	1373.		
.1450	-834.	1314.	1429.	-2006.	-2177.	1882.	-.0016	.0122	.0096	.0254	-.0465	.0510	1408.		
.1460	-662.	1319.	1294.	-1954.	-2237.	1966.	-.0013	.0120	.0096	.0255	-.0475	.0516	1429.		
.1470	-395.	1387.	994.	-1845.	-2302.	1950.	-.0010	.0116	.0093	.0248	-.0471	.0510	1419.		
.1480	-65.	1282.	890.	-1689.	-2116.	1996.	-.0001	.0107	.0091	.0241	-.0458	.0486	1350.		
.1490	332.	1088.	930.	-1501.	-1720.	2049.	.0010	.0096	.0092	.0236	-.0434	.0444	1231.		
.1500	788.	1040.	807.	-1289.	-1354.	1942.	.0021	.0085	.0090	.0229	-.0397	.0393	1082.		
.1510	1217.	1045.	520.	-1037.	-1068.	1726.	.0029	.0072	.0083	.0213	-.0350	.0334	915.		
.1520	1557.	854.	278.	-737.	-747.	1582.	.0036	.0053	.0073	.0181	-.0297	.0267	762.		
.1530	1873.	511.	52.	-402.	-394.	1516.	.0045	.0030	.0059	.0136	-.0240	.0196	649.		
.1540	2242.	240.	-296.	-72.	-92.	1408.	.0052	.0006	.0043	.0084	-.0178	.0124	567.		
.1550	2611.	42.	-651.	229.	208.	1250.	.0059	-.0016	.0028	.0034	-.0113	.0053	517.		
.1560	2870.	-205.	-822.	491.	587.	1104.	.0065	-.0036	.0015	-.0008	-.0048	-.0017	539.		
.1570	2995.	-421.	-896.	706.	955.	921.	.0069	-.0052	.0004	-.0042	-.0017	-.0082	603.		
.1580	3035.	-479.	-1074.	672.	1172.	640.	.0067	-.0064	-.0009	-.0073	.0072	-.0136	640.		
.1590	3010.	-513.	-1272.	1001.	1298.	382.	.0064	-.0073	-.0021	-.0105	.0125	-.0179	675.		

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S/RV PIPING KEWAUNEE GKW02F 2 RUP DISK
2 SAFETY COLD FKW24F--2 PSV

CONDITION 24
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INTERNAL FORCES IN THE PIPING
FORCES AND MOMENTS ACT ON THE PIPING

.1490	732.	1088.	830.	-1501.	-1720.	2049.	.0010	.0096	.0092	.0236	-.0434	.0444	1231.
.1500	788.	1040.	807.	-1289.	-1354.	1942.	.0021	.0085	.0090	.0229	-.0397	.0393	1082.
.1510	1217.	1045.	520.	-1037.	-1068.	1726.	.0029	.0072	.0083	.0213	-.0350	.0334	915.
.1520	1557.	854.	271.	-777.	-747.	1582.	.0036	.0053	.0073	.0181	-.0297	.0267	762.
.1530	1873.	511.	52.	-402.	-394.	1516.	.0045	.0030	.0059	.0136	-.0240	.0196	649.
.1540	2242.	240.	-296.	-71.	-92.	1408.	.0052	.0006	.0043	.0084	-.0178	.0124	567.
.1550	2611.	42.	-651.	229.	208.	1250.	.0059	-.0016	.0028	.0034	-.0113	.0053	517.
.1560	2870.	-205.	-822.	491.	587.	1104.	.0065	-.0036	.0019	-.0008	-.0048	-.0017	539.
.1570	2995.	-421.	-896.	706.	955.	921.	.0069	-.0052	.0004	-.0042	.0013	-.0082	603.
.1580	3025.	-479.	-1074.	871.	1172.	640.	.0067	-.0064	-.0009	-.0073	.0072	-.0136	640.
.1590	3010.	-513.	-1272.	1001.	1298.	382.	.0064	-.0073	-.0021	-.0105	.0125	-.0179	675.

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18.28.59.

S/RV PIPING KEWAUNEE GKW08F 2 RUP DISK
2 SAFETY COLD FKW24F--2 PSV

CONDITION 24

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INTERNAL FORCES IN THE PIPING
FORCES AND MOMENTS ACT ON THE PIPING

SECTION	48	MEMBER	1	SEQUENCE	66	LOCATION	BEG	TYPE	EL						
TIME	FX	FY	FZ	MX	MY	MZ	DX	DY	DZ	RX	RY	RZ	STRESS		
(SEC)	(LB)	(LB)	(LB)	(FT-LB)	(FT-LB)	(FT-LB)	(IN)	(IN)	(IN)	(DEG)	(DEG)	(DEG)	(PSI)		
.1600	2900.	-676.	-1331.	1087.	1431.	263.	.0061	-.0083	-.0033	-.0139	.0169	-.0212	729.		
.1610	2702.	-882.	-1300.	1116.	1530.	225.	.0057	-.0091	-.0043	-.0173	.0203	-.0231	765.		
.1620	2412.	-943.	-1316.	1079.	1488.	123.	.0049	-.0094	-.0053	-.0199	.0230	-.0337	739.		
.1630	1994.	-863.	-1320.	968.	1335.	-57.	.0036	-.0089	-.0060	-.0214	.0248	-.0230	662.		
.1640	1447.	-773.	-1175.	800.	1178.	-227.	.0022	-.0081	-.0064	-.0216	.0257	-.0213	579.		
.1650	845.	-682.	-922.	594.	1025.	-363.	.0008	-.0068	-.0064	-.0208	.0256	-.0188	497.		
.1660	255.	-527.	-702.	364.	807.	-494.	-.0007	-.0054	-.0063	-.0194	.0248	-.0154	407.		
.1670	-324.	-354.	-522.	129.	528.	-598.	-.0021	-.0039	-.0062	-.0180	.0233	-.0114	324.		
.1680	-919.	-248.	-303.	-100.	241.	-640.	-.0035	-.0024	-.0059	-.0167	.0211	-.0071	277.		
.1690	-1514.	-168.	-68.	-320.	-49.	-657.	-.0048	-.0010	-.0056	-.0151	.0185	-.0028	294.		
.1700	-2046.	-18.	110.	-529.	-357.	-716.	-.0061	.0005	-.0053	-.0131	.0157	.0013	385.		
.1710	-2460.	180.	258.	-718.	-629.	-797.	-.0071	.0019	-.0047	-.0106	.0127	.0049	499.		
.1720	-2721.	325.	445.	-861.	-783.	-825.	-.0075	.0031	-.0039	-.0078	.0097	.0076	573.		
.1730	-2819.	396.	639.	-951.	-832.	-792.	-.0075	.0040	-.0029	-.0050	.0068	.0093	598.		
.1740	-2766.	453.	732.	-977.	-856.	-749.	-.0072	.0044	-.0021	-.0028	.0041	.0100	602.		
.1750	-2580.	502.	703.	-941.	-879.	-712.	-.0066	.0045	-.0015	-.0012	.0017	.0098	590.		
.1760	-2274.	489.	635.	-855.	-840.	-643.	-.0056	.0040	-.0009	-.0003	-.0003	.0085	546.		
.1770	-1840.	402.	574.	-722.	-702.	-531.	-.0043	.0032	-.0003	.0002	-.0020	.0061	457.		
.1780	-1277.	305.	477.	-553.	-498.	-418.	-.0026	.0021	.0003	.0004	-.0032	.0027	342.		
.1790	-619.	226.	321.	-347.	-261.	-330.	-.0008	.0008	.0008	.0005	-.0041	-.0014	219.		
.1800	70.	118.	154.	-107.	10.	-245.	.0011	-.0006	.0013	.0005	-.0045	-.0061	107.		
.1810	736.	-36.	-0.	154.	298.	-156.	.0031	-.0022	.0017	.0003	-.0048	-.0112	143.		
.1820	1360.	-190.	-103.	424.	557.	-89.	.0048	-.0037	.0019	-.0002	-.0048	-.0163	283.		
.1830	1920.	-316.	-391.	67.	766.	-53.	.0064	-.0052	.0021	-.0009	-.0047	-.0211	411.		
.1840	2383.	-450.	-557.	903.	951.	-19.	.0078	-.0066	.0022	-.0017	-.0045	-.0254	526.		
.1850	2727.	-593.	-660.	1088.	1109.	19.	.0089	-.0077	.0023	-.0023	-.0045	-.0290	623.		
.1860	2945.	-639.	-751.	1230.	1194.	27.	.0096	-.0085	.0023	-.0027	-.0047	-.0317	688.		
.1870	3025.	-728.	-832.	1330.	1195.	-1.	.0099	-.0088	.0023	-.0026	-.0050	-.0332	717.		
.1880	2951.	-749.	-842.	1380.	1143.	-34.	.0098	-.0088	.0024	-.0021	-.0057	-.0335	719.		
.1890	2738.	-751.	-770.	1371.	1052.	-65.	.0094	-.0084	.0024	-.0010	-.0067	-.0326	694.		
.1900	2433.	-681.	-674.	1297.	897.	-112.	.0087	-.0075	.0028	.0005	-.0080	-.0304	635.		
.1910	2063.	-548.	-566.	1162.	684.	-165.	.0077	-.0063	.0031	.0024	-.0096	-.0271	545.		
.1920	1626.	-417.	-402.	982.	451.	-181.	.0066	-.0049	.0034	.0043	-.0115	-.0228	440.		
.1930	1132.	-302.	-195.	772.	202.	-163.	.0054	-.0033	.0037	.0063	-.0136	-.0177	327.		
.1940	618.	-147.	-10.	542.	-86.	-152.	.0040	-.0016	.0040	.0084	-.0156	-.0119	229.		
.1950	119.	55.	150.	299.	-387.	-158.	.0025	.0003	.0042	.0106	-.0176	-.0059	206.		
.1960	-741.	254.	339.	52.	-636.	-150.	.0011	.0021	.0045	.0129	-.0193	.0001	264.		
.1970	-741.	403.	553.	-190.	-824.	-124.	-.0001	.0079	.0049	.0152	-.0206	.0057	343.		

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DIS/ADLPIPE

ADLPIPE STRESS ANALYSIS

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S/RV PIPING KEWAUNEE GKW08F 2 RUP DISK
2 SAFETY COLD FKW24F--2 PSV

CONDITION 24

LOADS

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ENGLISH UNITS

INTERNAL FORCES IN THE PIPING
FORCES AND MOMENTS ACT ON THE PIPING

.1870	3025.	-728.	-832.	1330.	1195.	-1.	.0099	-.0088	.0023	-.0026	-.0050	-.0332	717.
.1880	2951.	-749.	-842.	1380.	1143.	-34.	.0098	-.0088	.0024	-.0021	-.0057	-.0335	719.
.1890	2738.	-751.	-770.	1371.	1052.	-65.	.0094	-.0084	.0026	-.0010	-.0067	-.0326	694.
.1900	2433.	-681.	-674.	1297.	897.	-112.	.0087	-.0075	.0028	.0005	-.0080	-.0304	635.
.1910	2063.	-548.	-566.	1162.	684.	-165.	.0077	-.0063	.0031	.0024	-.0096	-.0271	545.
.1920	1626.	-417.	-402.	982.	451.	-181.	.0066	-.0049	.0034	.0043	-.0115	-.0228	440.
.1930	1132.	-302.	-195.	772.	202.	-163.	.0054	-.0033	.0037	.0063	-.0136	-.0177	327.
.1940	618.	-147.	-10.	542.	-86.	-152.	.0040	-.0016	.0040	.0084	-.0156	-.0119	229.
.1950	119.	55.	150.	209.	-387.	-158.	.0025	.0003	.0042	.0106	-.0176	-.0059	206.
.1960	-341.	254.	339.	52.	-639.	-150.	.0011	.0021	.0046	.0129	-.0193	.0001	264.
.1970	-741.	433.	553.	-190.	-824.	-124.	-.0001	.0039	.0049	.0152	-.0206	.0057	343.

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ADLPIPE STRESS ANALYSIS

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S/RV PIPING KEWAUNEE GKW08F 2 RUP DISK
2 SAFETY COLD FKW24F--2 PSV

CONDITION 24
LOADS
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INTERNAL FORCES IN THE PIPING
FORCES AND MOMENTS ACT ON THE PIPING

SECTION	MEMBER	SEQUENCE	LOCATION	BEG	TYPE	EL	TIME (SEC)	FX (LB)	FY (LB)	FZ (LB)	MX (FT-LB)	MY (FT-LB)	MZ (FT-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (DEG)	RY (DEG)	RZ (DEG)	STRESS (PSI)
48	1	66					.1980	-1069.	610.	729.	-412.	-973.	-104.	-.0011	.0054	.0052	.0171	-.0214	.0108	426.
							.1990	-1335.	765.	843.	-596.	-1100.	-92.	-.0021	.0067	.0052	.0183	-.0215	.0151	504.
							.2000	-1546.	359.	707.	-729.	-1189.	-75.	-.0029	.0075	.0050	.0187	-.0209	.0184	561.
							.2010	-1682.	895.	919.	-805.	-1227.	-55.	-.0036	.0079	.0046	.0182	-.0195	.0206	590.
							.2020	-1720.	898.	876.	-827.	-1204.	-48.	-.0040	.0080	.0041	.0170	-.0173	.0215	587.
							.2030	-1660.	871.	798.	-799.	-1104.	-59.	-.0041	.0077	.0034	.0154	-.0142	.0212	547.
							.2040	-1521.	804.	707.	-727.	-922.	-81.	-.0041	.0070	.0026	.0133	-.0103	.0196	472.
							.2050	-1319.	707.	582.	-616.	-692.	-119.	-.0039	.0061	.0017	.0107	-.0057	.0169	375.
							.2060	-1065.	587.	393.	-467.	-447.	-173.	-.0035	.0048	.0006	.0073	-.0006	.0134	269.
							.2070	-769.	429.	154.	-286.	-194.	-221.	-.0031	.0032	-.0007	.0032	.0048	.0092	164.
							.2080	-441.	223.	-99.	-83.	77.	-242.	-.0026	.0014	-.0021	-.0014	.0104	.0046	107.
							.2090	-90.	-1.	-352.	125.	361.	-248.	-.0020	-.0005	-.0035	-.0062	.0160	-.0002	183.
							.2100	263.	-202.	-599.	323.	638.	-261.	-.0014	-.0023	-.0048	-.0107	.0214	-.0048	306.
							.2110	591.	-361.	-824.	497.	896.	-259.	-.0008	-.0039	-.0060	-.0146	.0264	-.0090	427.
							.2120	873.	-491.	-1004.	640.	1131.	-316.	-.0003	-.0052	-.0069	-.0179	.0307	-.0126	536.
							.2130	1096.	-595.	-1139.	745.	1324.	-329.	.0000	-.0062	-.0077	-.0206	.0344	-.0153	624.
							.2140	1251.	-669.	-1246.	809.	1451.	-325.	.0002	-.0070	-.0084	-.0227	.0371	-.0169	679.
							.2150	1326.	-709.	-1321.	827.	1501.	-302.	.0002	-.0074	-.0089	-.0243	.0388	-.0172	698.
							.2160	1314.	-718.	-1346.	794.	1483.	-259.	.0000	-.0074	-.0092	-.0251	.0394	-.0164	683.
							.2170	1220.	-688.	-1308.	708.	1409.	-203.	-.0003	-.0070	-.0092	-.0251	.0390	-.0144	638.
							.2180	1053.	-603.	-1210.	572.	1285.	-147.	-.0008	-.0062	-.0089	-.0241	.0375	-.0113	567.
							.2190	822.	-465.	-1063.	393.	1114.	-98.	-.0014	-.0049	-.0084	-.0221	.0352	-.0072	476.
							.2200	533.	-294.	-870.	183.	904.	-48.	-.0021	-.0034	-.0076	-.0193	.0320	-.0025	370.
							.2210	206.	-109.	-648.	-45.	661.	10.	-.0029	-.0017	-.0067	-.0160	.0280	.0028	266.
							.2220	-124.	80.	-421.	-281.	397.	80.	-.0036	.0001	-.0057	-.0124	.0236	.0083	198.
							.2230	-430.	263.	-195.	-512.	130.	166.	-.0042	.0018	-.0046	-.0088	.0189	.0138	222.
							.2240	-703.	426.	31.	-729.	-119.	261.	-.0048	.0034	-.0035	-.0053	.0140	.0189	314.
							.2250	-940.	573.	246.	-923.	-346.	349.	-.0051	.0048	-.0024	-.0019	.0092	.0233	419.
							.2260	-1121.	713.	427.	-1084.	-543.	414.	-.0054	.0061	-.0014	.0013	.0047	.0269	514.
							.2270	-1216.	829.	575.	-1201.	-687.	468.	-.0054	.0070	-.0003	.0041	.0007	.0294	586.
							.2280	-1213.	892.	698.	-1267.	-758.	528.	-.0051	.0076	.0006	.0064	-.0028	.0307	629.
							.2290	-1119.	893.	731.	-1278.	-764.	590.	-.0046	.0077	.0014	.0080	-.0056	.0307	643.
							.2300	-748.	867.	796.	-1273.	-730.	635.	-.0039	.0074	.0019	.0088	-.0075	.0294	629.
							.2310	-715.	799.	745.	-1135.	-659.	657.	-.0030	.0067	.0022	.0087	-.0086	.0269	589.
							.2320	-419.	630.	661.	-989.	-530.	673.	-.0020	.0056	.0023	.0080	-.0090	.0233	525.
							.2330	-62.	519.	554.	-802.	-339.	684.	-.0008	.0042	.0023	.0067	-.0085	.0187	444.
							.2340	342.	346.	411.	-583.	-112.	674.	.0004	.0027	.0022	.0049	-.0073	.0133	360.
							.2350	766.	171.	235.	-342.	136.	641.	.0017	.0010	.0019	.0029	-.0055	.0075	296.

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ADLPIPE STRESS ANALYSIS

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S/RV PIPING KEWAUNEE GKW08F 2 RUP DISK
2 SAFETY COLD FKW24F--2 PSV

CONDITION 24
LOADS
SHOCK
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INTERNAL FORCES IN THE PIPING
FORCES AND MOMENTS ACT ON THE PIPING

.2260	-1121.	713.	427.	-1084.	-543.	414.	-.0054	.0061	-.0014	.0013	.0047	.0269	514.
.2270	-1216.	829.	575.	-1201.	-687.	468.	-.0054	.0070	-.0003	.0041	.0007	.0294	586.
.2280	-1217.	892.	699.	-1267.	-758.	528.	-.0051	.0076	.0006	.0064	-.0028	.0307	629.
.2290	-1119.	898.	731.	-1278.	-764.	590.	-.0046	.0077	.0014	.0080	-.0056	.0307	643.
.2300	-948.	867.	796.	-1233.	-730.	635.	-.0039	.0074	.0019	.0088	-.0075	.0294	629.
.2310	-715.	799.	745.	-1135.	-659.	657.	-.0030	.0067	.0022	.0087	-.0086	.0269	589.
.2320	-419.	680.	661.	-989.	-530.	673.	-.0020	.0056	.0023	.0080	-.0090	.0233	525.
.2330	-62.	519.	554.	-802.	-339.	624.	-.0008	.0042	.0023	.0067	-.0085	.0187	444.
.2340	342.	346.	411.	-583.	-112.	674.	.0004	.0027	.0022	.0049	-.0073	.0133	360.
.2350	766.	171.	235.	-342.	126.	641.	.0017	.0010	.0019	.0029	-.0055	.0075	296.

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DIS/ADLPIPE

ADLPIPE STRESS ANALYSIS

83/12/02. 18.28.59.

S/RV PIPING KEWAUNEE GKW03F 2 RUP DISK
2 SAFETY COLD FKW24F--2 PSV

CONDITION 24
LOADS
SHOCK
PRESSURE
ENGLISH UNITS

INTERNAL FORCES IN THE PIPING
FORCES AND MOMENTS ACT ON THE PIPING

SECTION	TIME	FX	FY	FZ	MX	MY	MZ	DX	DY	DZ	PX	RY	RZ	STRESS
48	(SEC)	(LB)	(LB)	(LB)	(FT-LB)	(FT-LB)	(FT-LB)	(IN)	(IN)	(IN)	(DEG)	(DEG)	(DEG)	(PSI)
.2360	1185.	-19.	55.	-90.	399.	599.	.0029	-.0008	.0015	.0007	-.0033	.0015	291.	
.2370	1586.	-225.	-116.	162.	674.	584.	.0041	-.0026	.0010	-.0018	-.0007	-.0045	358.	
.2380	1962.	-421.	-289.	399.	935.	528.	.0051	-.0043	.0005	-.0043	.0020	-.0102	459.	
.2390	2296.	-586.	-466.	609.	1162.	485.	.0060	-.0058	-.0001	-.0068	.0047	-.0152	561.	
.2400	2574.	-724.	-621.	784.	1358.	445.	.0067	-.0072	-.0006	-.0091	.0073	-.0194	654.	
.2410	2796.	-934.	-733.	917.	1531.	422.	.0073	-.0082	-.0011	-.0110	.0097	-.0227	736.	
.2420	2969.	-934.	-794.	1006.	1687.	421.	.0077	-.0090	-.0015	-.0124	.0117	-.0249	806.	
.2430	3090.	-983.	-817.	1047.	1809.	432.	.0079	-.0094	-.0017	-.0133	.0133	-.0260	856.	
.2440	3146.	-978.	-818.	1037.	1879.	441.	.0079	-.0094	-.0019	-.0137	.0145	-.0259	879.	
.2450	3138.	-927.	-792.	977.	1900.	455.	.0077	-.0091	-.0020	-.0138	.0153	-.0248	877.	
.2460	3090.	-855.	-730.	873.	1895.	493.	.0074	-.0086	-.0020	-.0135	.0157	-.0227	861.	
.2470	3028.	-787.	-620.	735.	1892.	575.	.0071	-.0080	-.0019	-.0130	.0158	-.0199	847.	
.2480	2953.	-712.	-487.	573.	1881.	682.	.0067	-.0072	-.0017	-.0124	.0157	-.0165	835.	
.2490	2844.	-596.	-371.	392.	1824.	765.	.0061	-.0063	-.0016	-.0118	.0156	-.0127	809.	
.2500	2694.	-449.	-290.	203.	1734.	816.	.0054	-.0053	-.0016	-.0111	.0156	-.0087	773.	
.2510	2531.	-317.	-184.	16.	1660.	867.	.0047	-.0043	-.0016	-.0104	.0157	-.0048	752.	
.2520	2382.	-227.	-52.	-159.	1632.	935.	.0041	-.0034	-.0016	-.0100	.0161	-.0013	757.	
.2530	2251.	-167.	71.	-313.	1630.	1002.	.0035	-.0027	-.0017	-.0100	.0170	.0017	778.	
.2540	2130.	-127.	149.	-437.	1633.	1049.	.0030	-.0022	-.0020	-.0105	.0183	.0041	798.	
.2550	2029.	-110.	174.	-523.	1643.	1074.	.0024	-.0020	-.0025	-.0115	.0202	.0058	815.	
.2560	1988.	-142.	174.	-564.	1704.	1107.	.0021	-.0021	-.0031	-.0131	.0227	.0067	846.	
.2570	2083.	-268.	203.	-559.	1890.	1205.	.0021	-.0025	-.0037	-.0151	.0258	.0065	927.	
.2580	2352.	-434.	215.	-512.	2184.	1346.	.0026	-.0034	-.0042	-.0174	.0294	.0054	1050.	
.2590	2778.	-553.	117.	-430.	2504.	1463.	.0033	-.0045	-.0049	-.0200	.0336	.0037	1177.	
.2600	3344.	-641.	-76.	-314.	2850.	1570.	.0043	-.0057	-.0057	-.0230	.0383	.0013	1312.	
.2610	4060.	-782.	-277.	-164.	3285.	1737.	.0056	-.0073	-.0065	-.0263	.0434	-.0016	1492.	
.2620	4940.	-992.	-463.	18.	3828.	1992.	.0073	-.0093	-.0072	-.0300	.0488	-.0050	1732.	
.2630	5921.	-1198.	-600.	219.	4402.	2266.	.0093	-.0113	-.0080	-.0337	.0545	-.0086	1989.	
.2640	6836.	-1300.	-1026.	421.	4871.	2436.	.0109	-.0132	-.0089	-.0374	.0604	-.0119	2192.	
.2650	7572.	-1303.	-1432.	614.	5206.	2475.	.0119	-.0147	-.0101	-.0408	.0664	-.0149	2326.	
.2660	8106.	-1327.	-1757.	799.	5501.	2488.	.0125	-.0158	-.0112	-.0436	.0722	-.0176	2441.	
.2670	8401.	-1423.	-1933.	970.	5784.	2451.	.0127	-.0168	-.0122	-.0458	.0777	-.0199	2551.	
.2680	8339.	-1480.	-2071.	1114.	5905.	2309.	.0122	-.0171	-.0123	-.0474	.0828	-.0215	2583.	
.2690	7822.	-1414.	-2250.	1217.	5747.	1955.	.0105	-.0167	-.0146	-.0484	.0872	-.0220	2485.	
.2700	6885.	-1307.	-2379.	1280.	5385.	1467.	.0078	-.0157	-.0160	-.0488	.0907	-.0215	2298.	
.2710	5698.	-1292.	-2312.	1309.	4996.	1009.	.0049	-.0144	-.0171	-.0479	.0930	-.0204	2112.	
.2720	4405.	-1324.	-2095.	1301.	4602.	604.	.0020	-.0128	-.0178	-.0463	.0938	-.0186	1934.	
.2730	3041.	-1237.	-1907.	1248.	4079.	142.	-.0012	-.0107	-.0183	-.0436	.0933	-.0158	1713.	

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DIS/ADLPIPE

ADLPIPE STRESS ANALYSIS

83/12/02. 18.28.59.

S/RV PIPING KEWAUNEE GKW03F 2 RUP DISK
2 SAFETY COLD FKW24F--2 PSV

CONDITION 24
LOADS
SHOCK
PRESSURE
ENGLISH UNITS

INTERNAL FORCES IN THE PIPING
FORCES AND MOMENTS ACT ON THE PIPING

.2630	4940.	-1192.	-690.	219.	4402.	2266.	.0093	-.0113	-.0080	-.0337	.0545	-.0086	1989.
.2640	6836.	-1300.	-1026.	421.	4771.	2436.	.0109	-.0132	-.0089	-.0374	.0604	-.0119	2192.
.2650	7572.	-1303.	-1432.	614.	5206.	2475.	.0119	-.0147	-.0101	-.0408	.0564	-.0149	2326.
.2660	8106.	-1327.	-1757.	799.	5501.	2468.	.0125	-.0158	-.0112	-.0436	.0722	-.0176	2441.
.2670	8461.	-1403.	-1933.	970.	5784.	2451.	.0127	-.0168	-.0122	-.0458	.0777	-.0199	2551.
.2680	8739.	-1430.	-2071.	1114.	5905.	2309.	.0122	-.0171	-.0123	-.0474	.0828	-.0215	2583.
.2690	7922.	-1414.	-2250.	1217.	5747.	1955.	.0105	-.0167	-.0146	-.0484	.0872	-.0220	2485.
.2700	6885.	-1307.	-2379.	1280.	5285.	1467.	.0078	-.0157	-.0160	-.0486	.0907	-.0215	2298.
.2710	5698.	-1292.	-2312.	1309.	4996.	1009.	.0049	-.0144	-.0171	-.0479	.0930	-.0204	2112.
.2720	4405.	-1324.	-2095.	1301.	4602.	604.	.0020	-.0128	-.0170	-.0463	.0938	-.0186	1934.
.2730	3041.	-1237.	-1907.	1248.	4079.	142.	-.0012	-.0107	-.0183	-.0436	.0933	-.0158	1713.

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DIS/ADLPIPE

ADLPIPE STRESS ANALYSIS

83/12/02.

18.28.59.

S/RV PIPING KEWAUNEE GKW08F 2 RUP DISK
2 SAFETY COLD FKW24F--2 PSV

CONDITION 24
LOADS
SHOCK
PRESSURE
ENGLISH UNITS

INTERNAL FORCES IN THE PIPING
FORCES AND MOMENTS ACT ON THE PIPING

SECTION	MEMBER	SEQUENCE	LOCATION	BEG	TYPE	EL	TIME (SEC)	FX (LB)	FY (LB)	FZ (LB)	MX (FT-LB)	MY (FT-LB)	MZ (FT-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (DEG)	RY (DEG)	PZ (DEG)	STRESS (PSI)
48	1	66					.2740	1659.	-1015.	-1774.	-1152.	3725.	-372.	-.0044	-.0083	-.0185	-.0400	.0912	-.0122	1458.
							.2750	429.	-790.	-1577.	1025.	2807.	-781.	-.0072	-.0057	-.0181	-.0355	.0874	-.0082	1240.
							.2760	-431.	-654.	-1251.	381.	2379.	-948.	-.0088	-.0035	-.0170	-.0303	.0819	-.0040	1087.
							.2770	-849.	-540.	-897.	720.	2107.	-903.	-.0092	-.0017	-.0153	-.0247	.0749	.0002	964.
							.2780	-911.	-343.	-635.	543.	1865.	-766.	-.0088	-.0001	-.0132	-.0190	.0567	.0044	838.
							.2790	-692.	-74.	-480.	357.	1630.	-570.	-.0079	.0013	-.0109	-.0133	.0576	.0086	708.
							.2800	-170.	120.	-346.	177.	1497.	-258.	-.0063	.0023	-.0083	-.0078	.0479	.0123	614.
							.2810	659.	542.	-158.	17.	1546.	209.	-.0037	.0028	-.0054	-.0025	.0380	.0153	626.
							.2820	1650.	429.	70.	-122.	1721.	754.	-.0006	.0029	-.0024	.0023	.0284	.0173	755.
							.2830	2571.	526.	241.	-246.	1862.	1220.	.0023	.0029	.0003	.0065	.0194	.0186	899.
							.2840	3283.	677.	301.	-355.	1881.	1516.	.0045	.0029	.0025	.0097	.0117	.0193	980.
							.2850	3771.	860.	316.	-439.	1838.	1691.	.0061	.0028	.0041	.0119	.0053	.0191	1017.
							.2860	4037.	779.	405.	-487.	1831.	1827.	.0073	.0024	.0052	.0128	.0095	.0179	1056.
							.2870	4015.	624.	565.	-501.	1833.	1895.	.0080	.0019	.0051	.0126	-.0028	.0158	1077.
							.2880	3644.	484.	662.	-493.	1712.	1766.	.0077	.0014	.0058	.0114	-.0042	.0131	1007.
							.2890	2970.	440.	630.	-474.	1436.	1405.	.0064	.0012	.0050	.0095	-.0039	.0101	828.
							.2900	2137.	394.	588.	-441.	1150.	944.	.0046	.0011	.0038	.0071	-.0020	.0067	623.
							.2910	1288.	228.	662.	-391.	1002.	570.	.0030	.0007	.0025	.0042	.0010	.0027	482.
							.2920	497.	-2.	779.	-332.	957.	174.	.0014	.0001	.0012	.0009	.0049	-.0016	413.
							.2930	-205.	-145.	771.	-274.	888.	-225.	-.0001	-.0005	-.0004	-.0029	.0097	-.0058	384.
							.2940	-751.	-185.	619.	-217.	799.	-643.	-.0017	-.0011	-.0022	-.0071	.0152	-.0097	421.
							.2950	-1036.	-245.	467.	-156.	839.	-946.	-.0026	-.0019	-.0038	-.0113	.0209	-.0135	511.
							.2960	-1003.	-382.	399.	-88.	1092.	-1069.	-.0027	-.0031	-.0051	-.0154	.0268	-.0175	614.
							.2970	-700.	-508.	342.	-21.	1476.	-1095.	-.0022	-.0044	-.0061	-.0192	.0327	-.0213	737.
							.2980	-251.	-527.	204.	78.	1885.	-1138.	-.0016	-.0056	-.0071	-.0226	.0388	-.0249	877.
							.2990	251.	-473.	5.	91.	2235.	-1211.	-.0010	-.0067	-.0080	-.0257	.0450	-.0282	1021.
							.3000	768.	-448.	-164.	149.	2638.	-1254.	-.0003	-.0078	-.0090	-.0288	.0514	-.0315	1174.
							.3010	1249.	-504.	-267.	221.	3082.	-1254.	.0004	-.0090	-.0099	-.0320	.0578	-.0349	1338.
							.3020	1577.	-601.	-346.	305.	3489.	-1286.	.0008	-.0102	-.0109	-.0354	.0644	-.0382	1497.
							.3030	1627.	-677.	-450.	396.	3764.	-1444.	.0005	-.0110	-.0123	-.0388	.0713	-.0415	1626.
							.3040	1367.	-716.	-576.	491.	3898.	-1754.	-.0005	-.0116	-.0140	-.0421	.0784	-.0447	1726.
							.3050	857.	-767.	-665.	593.	3954.	-2157.	-.0021	-.0119	-.0158	-.0452	.0858	-.0480	1823.
							.3060	166.	-886.	-667.	706.	4001.	-2583.	-.0040	-.0122	-.0176	-.0481	.0931	-.0513	1932.
							.3070	-671.	-1055.	-620.	827.	4016.	-3025.	-.0061	-.0124	-.0194	-.0510	.1002	-.0547	2045.
							.3080	-1611.	-1201.	-621.	952.	3934.	-3510.	-.0085	-.0124	-.0214	-.0538	.1070	-.0577	2150.
							.3090	-2549.	-1294.	-706.	1077.	3760.	-4013.	-.0109	-.0124	-.0234	-.0567	.1133	-.0603	2249.
							.3100	-3743.	-1395.	-801.	1109.	3604.	-4426.	-.0130	-.0124	-.0252	-.0594	.1188	-.0625	2341.
							.3110	-3880.	-1549.	-836.	1316.	3558.	-4667.	-.0144	-.0127	-.0266	-.0616	.1231	-.0642	2413.

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DIS/ADLPIPE

ADLPIPE STRESS ANALYSIS

83/12/02.

18.28.59.

S/RV PIPING KEWAUNEE GKW08F 2 RUP DISK
2 SAFETY COLD FKW24F--2 PSV

CONDITION 24
LOADS
SHOCK
PRESSURE
ENGLISH UNITS

.3020	1577.	-601.	-346.	305.	3489.	-1286.	.0008	-.0102	-.0109	-.0354	.0544	-.0349	1338.
.3030	1627.	-677.	-450.	396.	3764.	-1444.	.0005	-.0110	-.0123	-.0388	.0713	-.0415	1626.
.3040	1767.	-716.	-576.	401.	3606.	-1754.	-.0005	-.0116	-.0140	-.0421	.0784	-.0447	1726.
.3050	857.	-767.	-665.	593.	3554.	-2157.	-.0021	-.0119	-.0158	-.0452	.0958	-.0480	1823.
.3060	166.	-886.	-697.	706.	4001.	-2583.	-.0040	-.0122	-.0176	-.0481	.0931	-.0513	1932.
.3070	-671.	-1055.	-620.	827.	4016.	-3025.	-.0061	-.0124	-.0194	-.0510	.1002	-.0547	2045.
.3080	-1611.	-1201.	-621.	952.	3934.	-3510.	-.0085	-.0124	-.0214	-.0538	.1070	-.0577	2150.
.3090	-2549.	-1294.	-706.	1077.	3760.	-4013.	-.0109	-.0124	-.0234	-.0567	.1137	-.0603	2249.
.3100	-3343.	-1395.	-801.	1199.	3604.	-4426.	-.0130	-.0124	-.0252	-.0594	.1188	-.0625	2341.
.3110	-3862.	-1548.	-936.	1316.	3558.	-4867.	-.0144	-.0127	-.0266	-.0616	.1231	-.0642	2413.

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DIS/ADLPIPE

ADLPIPE STRESS ANALYSIS

83/12/02.

12.28.59.

S/RV PIPING KEWAUNEE GKW08F 2 RUP DISK
2 SAFETY COLL FKW24F--2 PSV

CONDITION 24

LOADS

SHOCK

PRESSURE

ENGLISH UNITS

INTERNAL FORCES IN THE PIPING
FORCES AND MOMENTS ACT ON THE PIPING

SECTION	48	MEMBER	1	SEQUENCE	66	LOCATION	BEG	TYPE	EL					
TIME	FX	FY	FZ	HX	HY	MZ	DX	DY	DZ	FX	RY	RZ	STRESS	
(SEC)	(LB)	(LB)	(LB)	(FT-LB)	(FT-LB)	(FT-LB)	(IN)	(IN)	(IN)	(DEG)	(DEG)	(DEG)	(PSI)	
.3120	-4128.	-1693.	-852.	1415.	3595.	-4756.	-.0151	-.0130	-.0274	-.0631	.1262	-.0654	2459.	
.3130	-4086.	-1734.	-938.	1486.	3636.	-4758.	-.0151	-.0132	-.0278	-.0639	.1279	-.0656	2476.	
.3140	-3761.	-1677.	-1089.	1525.	3678.	-4662.	-.0147	-.0134	-.0278	-.0638	.1282	-.0649	2460.	
.3150	-3155.	-1614.	-1216.	1536.	3783.	-4398.	-.0135	-.0135	-.0273	-.0630	.1269	-.0632	2408.	
.3160	-2312.	-1586.	-1277.	1521.	3962.	-3949.	-.0116	-.0138	-.0263	-.0616	.1240	-.0606	2326.	
.3170	-1342.	-1533.	-1326.	1471.	4129.	-3400.	-.0094	-.0139	-.0248	-.0596	.1196	-.0570	2226.	
.3180	-378.	-1395.	-1403.	1300.	4196.	-2850.	-.0073	-.0137	-.0232	-.0568	.1139	-.0523	2109.	
.3190	487.	-1195.	-1466.	1248.	4163.	-2322.	-.0054	-.0131	-.0214	-.0532	.1069	-.0466	1977.	
.3200	1213.	-994.	-1440.	1082.	4076.	-1797.	-.0036	-.0121	-.0193	-.0488	.0989	-.0401	1840.	
.3210	1759.	-810.	-1314.	890.	3938.	-1286.	-.0022	-.0109	-.0170	-.0436	.0900	-.0332	1700.	
.3220	2067.	-617.	-1134.	675.	3697.	-842.	-.0012	-.0093	-.0147	-.0378	.0804	-.0257	1546.	
.3230	2107.	-397.	-938.	443.	3319.	-499.	-.0008	-.0073	-.0124	-.0317	.0702	-.0180	1359.	
.3240	1919.	-166.	-727.	201.	2833.	-243.	-.0009	-.0051	-.0103	-.0254	.0596	-.0102	1144.	
.3250	1597.	40.	-479.	-41.	2306.	-27.	-.0012	-.0029	-.0081	-.0191	.0487	-.0026	926.	
.3260	1226.	208.	-188.	-275.	1794.	180.	-.0015	-.0007	-.0059	-.0128	.0377	.0044	732.	
.3270	859.	352.	120.	-495.	1309.	372.	-.0016	.0013	-.0037	-.0066	.0268	.0108	581.	
.3280	553.	499.	403.	-693.	854.	541.	-.0016	.0031	-.0014	-.0006	.0161	.0163	492.	
.3290	368.	651.	634.	-862.	458.	703.	-.0013	.0047	.0008	.0050	.0057	.0207	483.	
.3300	434.	775.	827.	-992.	172.	901.	-.0005	.0058	.0030	.0101	-.0040	.0240	542.	
.3310	701.	840.	997.	-1078.	22.	1154.	.0008	.0063	.0051	.0145	-.0130	.0259	634.	
.3320	1155.	856.	1126.	-1119.	-14.	1437.	.0027	.0063	.0072	.0179	-.0211	.0264	731.	
.3330	1747.	854.	1180.	-1115.	28.	1708.	.0047	.0059	.0090	.0205	-.0279	.0257	819.	
.3340	2423.	838.	1159.	-1068.	130.	1940.	.0069	.0051	.0104	.0220	-.0333	.0237	890.	
.3350	3125.	778.	1105.	-978.	304.	2137.	.0091	.0040	.0116	.0226	-.0371	.0205	951.	
.3360	3771.	657.	1043.	-845.	535.	2283.	.0112	.0025	.0124	.0222	-.0393	.0161	1000.	
.3370	4276.	503.	955.	-678.	770.	2335.	.0128	.0010	.0127	.0210	-.0398	.0109	1024.	
.3380	4576.	339.	824.	-483.	964.	2262.	.0139	-.0006	.0124	.0188	-.0385	.0050	1006.	
.3390	4643.	156.	669.	-268.	1113.	2071.	.0143	-.0022	.0116	.0158	-.0356	-.0014	950.	
.3400	4476.	-61.	521.	-39.	1226.	1788.	.0141	-.0037	.0103	.0122	-.0312	-.0079	870.	
.3410	4101.	-306.	386.	196.	1307.	1433.	.0133	-.0052	.0087	.0080	-.0255	-.0145	782.	
.3420	3560.	-549.	250.	422.	1348.	1013.	.0121	-.0064	.0067	.0035	-.0189	-.0208	698.	
.3430	2909.	-765.	99.	648.	1347.	548.	.0105	-.0075	.0045	-.0011	-.0117	-.0266	638.	
.3440	2221.	-948.	-57.	849.	1224.	69.	.0087	-.0084	.0023	-.0055	-.0042	-.0317	632.	
.3450	1591.	-1114.	-195.	1028.	1323.	-357.	.0070	-.0091	.0002	-.0096	.0032	-.0361	687.	
.3460	1100.	-1260.	-312.	1178.	1364.	-696.	.0055	-.0098	-.0017	-.0133	.0101	-.0395	775.	
.3470	788.	-1361.	-431.	1295.	1434.	-940.	.0044	-.0103	-.0033	-.0164	.0163	-.0420	862.	
.3480	667.	-1299.	-576.	1375.	1513.	-1056.	.0037	-.0107	-.0046	-.0189	.0214	-.0434	931.	
.3490	732.	-1390.	-708.	1419.	1610.	-1147.	.0034	-.0110	-.0055	-.0207	.0254	-.0438	977.	

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ADLPIPE STRESS ANALYSIS

83/12/02.

12.28.59.

S/RV PIPING KEWAUNEE GKW08F 2 RUP DISK
2 SAFETY COLL FKW24F--2 PSV

CONDITION 24

LOADS

SHOCK

PRESSURE

ENGLISH UNITS

.3390	4643.	156.	669.	-268.	1113.	2071.	.0143	-.0022	.0116	.0158	-.0356	-.0014	950.
.3400	4476.	-61.	521.	-39.	1226.	1788.	.0141	-.0037	.0103	.0122	-.0312	-.0079	870.
.3410	4101.	-306.	386.	196.	1307.	1433.	.0133	-.0052	.0087	.0080	-.0255	-.0145	782.
.3420	3560.	-549.	250.	422.	1348.	1013.	.0121	-.0064	.0067	.0035	-.0189	-.0208	698.
.3430	2909.	-765.	99.	648.	1347.	546.	.0105	-.0075	.0045	-.0011	-.0117	-.0266	638.
.3440	2221.	-948.	-57.	849.	1324.	69.	.0087	-.0084	.0023	-.0055	-.0042	-.0317	632.
.3450	1591.	-1114.	-195.	1028.	1323.	-357.	.0070	-.0091	.0002	-.0096	.0032	-.0361	687.
.3460	1100.	-1260.	-312.	1178.	1364.	-696.	.0055	-.0098	-.0017	-.0133	.0101	-.0395	775.
.3470	788.	-1361.	-431.	1295.	1434.	-940.	.0044	-.0103	-.0033	-.0164	.0163	-.0420	862.
.3480	667.	-1399.	-570.	1375.	1513.	-1096.	.0037	-.0107	-.0046	-.0189	.0214	-.0434	931.
.3490	732.	-1390.	-708.	1419.	1610.	-1147.	.0034	-.0110	-.0055	-.0207	.0254	-.0438	977.

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ADLPIPE STRESS ANALYSIS

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18.28.59.

S/RV PIPING KEWAUNEE CKW02F 2 RUP DISK
2 SAFETY COLL FKW24F--2 PSV

CONDITION 24
LOADS
SHOCK
PRESSURE
ENGLISH UNITS

INTERNAL FORCES IN THE PIPING
FORCES AND MOMENTS ACT ON THE PIPING

SECTION	MEMBER	SEQUENCE	LOCATION	BEG	TYPE	EL								STRESS
TIME	FX	FY	FZ	MX	MY	MZ	DX	DY	DZ	RX	RY	RZ	(PSI)	
(SEC)	(LB)	(LB)	(LB)	(FT-LB)	(FT-LB)	(FT-LB)	(IN)	(IN)	(IN)	(DEG)	(DEG)	(DEG)		
.3500	988.	-1358.	-817.	1430.	1739.	-1080.	.0035	-.0112	-.0059	-.0217	.0279	-.0432	1002.	
.3510	1389.	-1307.	-887.	1409.	1888.	-911.	.0041	-.0113	-.0059	-.0219	.0291	-.0418	1014.	
.3520	1856.	-1219.	-930.	1355.	2014.	-689.	.0049	-.0111	-.0055	-.0213	.0288	-.0396	1013.	
.3530	2293.	-1082.	-961.	1270.	2066.	-464.	.0057	-.0108	-.0048	-.0198	.0271	-.0367	991.	
.3540	2637.	-925.	-959.	1160.	2036.	-248.	.0063	-.0101	-.0040	-.0177	.0240	-.0333	946.	
.3550	2856.	-793.	-882.	1033.	1947.	-24.	.0069	-.0093	-.0028	-.0149	.0197	-.0295	884.	
.3560	2923.	-697.	-729.	893.	1794.	193.	.0073	-.0084	-.0015	-.0117	.0141	-.0256	808.	
.3570	2808.	-599.	-541.	740.	1540.	358.	.0074	-.0072	-.0000	-.0080	.0074	-.0215	701.	
.3580	2504.	-473.	-352.	578.	1162.	444.	.0072	-.0058	.0014	-.0040	-.0003	-.0174	550.	
.3590	2052.	-339.	-145.	411.	694.	473.	.0067	-.0042	.0030	.0005	-.0088	-.0133	375.	
.3600	1526.	-238.	112.	246.	202.	497.	.0062	-.0026	.0047	.0052	-.0182	-.0095	237.	
.3610	1004.	-174.	419.	85.	-276.	546.	.0059	-.0011	.0066	.0102	-.0283	-.0061	248.	
.3620	535.	-110.	719.	-70.	-754.	606.	.0058	.0003	.0087	.0153	-.0391	-.0029	389.	
.3630	157.	-10.	965.	-219.	-1247.	664.	.0059	.0016	.0108	.0205	-.0503	-.0001	574.	
.3640	-83.	106.	1169.	-357.	-1717.	748.	.0063	.0028	.0130	.0256	-.0818	.0025	765.	
.3650	-138.	194.	1376.	-480.	-2103.	904.	.0072	.0037	.0154	.0307	-.0735	.0045	939.	
.3660	11.	247.	1593.	-586.	-2382.	1141.	.0086	.0043	.0180	.0356	-.0852	.0061	1086.	
.3670	330.	310.	1775.	-678.	-2593.	1411.	.0104	.0047	.0207	.0404	-.0967	.0072	1216.	
.3680	753.	421.	1880.	-758.	-2789.	1657.	.0123	.0049	.0232	.0450	-.1077	.0080	1337.	
.3690	1220.	552.	1932.	-821.	-2968.	1874.	.0142	.0051	.0256	.0492	-.1179	.0083	1447.	
.3700	1689.	640.	1992.	-860.	-3091.	2086.	.0161	.0051	.0278	.0530	-.1272	.0081	1536.	
.3710	2118.	664.	2078.	-874.	-3154.	2291.	.0180	.0050	.0298	.0562	-.1354	.0074	1603.	
.3720	2431.	671.	2143.	-863.	-3220.	2423.	.0195	.0047	.0314	.0587	-.1422	.0061	1654.	
.3730	2547.	712.	2138.	-835.	-3356.	2411.	.0203	.0046	.0325	.0607	-.1474	.0044	1692.	
.3740	2443.	759.	2098.	-786.	-3542.	2267.	.0205	.0046	.0331	.0619	-.1510	.0024	1717.	
.3750	2157.	748.	2089.	-714.	-3710.	2052.	.0203	.0045	.0333	.0625	-.1530	-.0003	1725.	
.3760	1736.	659.	2123.	-616.	-3828.	1801.	.0198	.0042	.0331	.0625	-.1535	-.0035	1715.	
.3770	1202.	548.	2135.	-497.	-3946.	1483.	.0188	.0040	.0326	.0617	-.1524	-.0071	1703.	
.3780	540.	487.	2050.	-363.	-4129.	1049.	.0174	.0037	.0315	.0601	-.1499	-.0108	1716.	
.3790	-210.	467.	1885.	-218.	-4356.	524.	.0156	.0036	.0300	.0580	-.1460	-.0147	1763.	
.3800	-966.	412.	1729.	-61.	-4529.	4.	.0136	.0033	.0283	.0553	-.1409	-.0187	1818.	
.3810	-1639.	257.	1657.	106.	-4563.	-423.	.0120	.0028	.0265	.0523	-.1351	-.0230	1839.	
.3820	-2209.	69.	1599.	275.	-4514.	-787.	.0105	.0021	.0248	.0489	-.1285	-.0271	1842.	
.3830	-2710.	-42.	1441.	434.	-4492.	-1172.	.0090	.0015	.0228	.0453	-.1213	-.0308	1871.	
.3840	-3132.	-90.	1203.	581.	-4486.	-1593.	.0074	.0009	.0207	.0414	-.1136	-.0339	1919.	
.3850	-3418.	-171.	993.	720.	-4398.	-1833.	.0061	.0003	.0186	.0374	-.1057	-.0364	1934.	
.3860	-3529.	-318.	656.	847.	-4182.	-1962.	.0053	-.0005	.0168	.0335	-.0977	-.0383	1885.	
.3870	-3515.	-449.	720.	951.	-3925.	-2013.	.0047	-.0012	.0150	.0296	-.0897	-.0394	1811.	

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DIS/ADLPIPE

ADLPIPE STRESS ANALYSIS

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18.28.59.

S/RV PIPING KEWAUNEE CKW02F 2 RUP DISK
2 SAFETY COLL FKW24F--2 PSV

CONDITION 24
LOADS
SHOCK
PRESSURE
ENGLISH UNITS

.3770	1202.	548.	2135.	-497.	-3946.	1483.	.0188	.0040	.0326	.0617	-.1524	-.0071	1703.
.3780	540.	487.	2050.	-363.	-4129.	1049.	.0174	.0037	.0315	.0601	-.1499	-.0108	1716.
.3790	-210.	467.	1885.	-218.	-4356.	524.	.0156	.0036	.0300	.0580	-.1460	-.0147	1763.
.3800	-966.	412.	1729.	-61.	-4529.	4.	.0136	.0033	.0293	.0553	-.1409	-.0187	1818.
.3810	-1639.	257.	1657.	106.	-4563.	-423.	.0120	.0028	.0285	.0523	-.1351	-.0230	1839.
.3820	-2209.	69.	1599.	275.	-4514.	-787.	.0105	.0021	.0248	.0489	-.1285	-.0271	1842.
.3830	-2710.	-42.	1441.	474.	-4492.	-1172.	.0090	.0015	.0228	.0453	-.1213	-.0308	1871.
.3840	-3132.	-90.	1203.	581.	-4486.	-1553.	.0074	.0009	.0207	.0414	-.1136	-.0339	1919.
.3850	-3418.	-171.	993.	720.	-4398.	-1833.	.0061	.0003	.0186	.0374	-.1057	-.0364	1934.
.3860	-3529.	-318.	856.	847.	-4182.	-1962.	.0053	-.0005	.0168	.0335	-.0977	-.0383	1885.
.3870	-3515.	-449.	720.	951.	-3925.	-2013.	.0047	-.0012	.0150	.0296	-.0897	-.0394	1811.

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ADLPIPE STRESS ANALYSIS

83/12/02. 18.28.59.

S/RV PIPING KEWAUNEE GYK08F 2 RUP DISK
2 SAFETY COLD FKW24F--2 PSV

CONDITION 24
LOADS
SHOCK
PRESSURE
ENGLISH UNITS

INTERNAL FORCES IN THE PIPING
FORCES AND MOMENTS ACT ON THE PIPING

SECTION	48	MEMBER	1	SEQUENCE	66	LOCATION	BEG	TYPE	EL					
TIME	FX	FY	FZ	MX	MY	MZ	DX	DY	DZ	RX	RY	RZ	STRESS	
(SEC)	(LB)	(LB)	(LB)	(FT-LB)	(FT-LB)	(FT-LB)	(IN)	(IN)	(IN)	(DEG)	(DEG)	(DEG)	(PSI)	
.3880	-3474.	-475.	505.	1019.	-3738.	-2078.	.0038	-.0017	.0132	.0260	-.0817	-.0393	1764.	
.3890	-3455.	-422.	249.	1049.	-3619.	-2151.	.0028	-.0018	.0113	.0226	-.0738	-.0381	1741.	
.3900	-3441.	-388.	52.	1046.	-3487.	-2152.	.0017	-.0017	.0096	.0195	-.0662	-.0357	1697.	
.3910	-3427.	-409.	-48.	1014.	-3316.	-2049.	.0007	-.0016	.0080	.0168	-.0590	-.0322	1616.	
.3920	-3476.	-416.	-121.	949.	-3192.	-1918.	-.0005	-.0011	.0064	.0144	-.0522	-.0276	1542.	
.3930	-3661.	-324.	-245.	844.	-3209.	-1845.	-.0021	-.0002	.0048	.0124	-.0459	-.0216	1523.	
.3940	-3968.	-153.	-389.	700.	-3340.	-1817.	-.0042	.0011	.0032	.0110	-.0401	-.0145	1551.	
.3950	-4317.	8.	-459.	525.	-3478.	-1743.	-.0063	.0027	.0019	.0102	-.0351	-.0065	1575.	
.3960	-4651.	119.	-417.	327.	-3572.	-1577.	-.0082	.0044	.0008	.0100	-.0309	.0022	1573.	
.3970	-4979.	243.	-345.	105.	-3690.	-1376.	-.0100	.0062	.0050	.0104	-.0277	.0116	1581.	
.3980	-5307.	453.	-337.	-138.	-3903.	-1203.	-.0120	.0083	-.0007	.0113	-.0254	.0215	1640.	
.3990	-5573.	720.	-373.	-392.	-4170.	-1024.	-.0138	.0105	-.0013	.0125	-.0241	.0317	1730.	
.4000	-5684.	948.	-360.	-644.	-4372.	-748.	-.0150	.0125	-.0014	.0142	-.0238	.0419	1799.	

MAXIMUM VALUE OF STRESS OCCURS AT

TIME	FX	FY	FZ	MX	MY	MZ	DX	DY	DZ	RX	RY	RZ	STRESS
(SEC)	(LB)	(LB)	(LB)	(FT-LB)	(FT-LB)	(FT-LB)	(IN)	(IN)	(IN)	(DEG)	(DEG)	(DEG)	(PSI)
.2680	-8339.	1480.	2071.	-1114.	-5905.	-2309.	.0122	-.0171	-.0133	-.0474	.0928	-.0215	2583.

SECTION	48	MEMBER	1	SEQUENCE	823	LOCATION	END	TYPE	EL					
TIME	FX	FY	FZ	MX	MY	MZ	DX	DY	DZ	RX	RY	RZ	STRESS	
(SEC)	(LB)	(LB)	(LB)	(FT-LB)	(FT-LB)	(FT-LB)	(IN)	(IN)	(IN)	(DEG)	(DEG)	(DEG)	(PSI)	
0.0000	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.	
.0010	0.	-0.	0.	0.	0.	0.	-.0000	.0000	-.0000	.0000	.0000	.0000	0.	
.0020	1.	-0.	0.	0.	0.	0.	-.0000	.0000	-.0000	.0000	.0000	.0000	0.	
.0030	2.	-1.	0.	0.	0.	0.	-.0000	.0000	-.0000	.0000	.0000	.0000	0.	
.0040	4.	-1.	1.	0.	0.	0.	-.0000	.0000	-.0000	.0000	.0000	.0000	0.	
.0050	7.	-1.	0.	0.	0.	1.	-.0000	.0000	-.0000	.0000	.0000	.0000	0.	
.0060	11.	-1.	-0.	0.	0.	1.	-.0000	.0000	-.0000	.0000	.0001	.0001	0.	
.0070	15.	0.	-1.	0.	1.	1.	-.0000	.0000	-.0000	.0000	.0001	.0001	1.	
.0080	15.	2.	-3.	1.	1.	2.	-.0000	.0000	-.0000	-.0000	.0001	.0001	1.	
.0090	11.	4.	-5.	1.	1.	1.	-.0000	.0000	-.0000	-.0000	.0000	.0000	1.	
.0100	8.	4.	-3.	1.	0.	1.	-.0000	-.0000	-.0000	-.0000	.0000	.0000	0.	
.0110	3.	1.	2.	-1.	-0.	-0.	-.0000	-.0000	-.0000	-.0000	.0000	.0000	0.	

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DIS/ADLPIPE

ADLPIPE STRESS ANALYSIS

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S/RV PIPING KEWAUNEE GYK08F 2 RUP DISK
2 SAFETY COLD FKW24F--2 PSV

CONDITION 24
LOADS
SHOCK

.0010	0.	-0.	0.	0.	0.	0.	0.	-.0000	.0000	-.0000	.0000	.0000	.0000	0.
.0020	1.	-0.	0.	0.	0.	0.	0.	-.0000	.0000	-.0000	.0000	.0000	.0000	0.
.0030	2.	-1.	0.	0.	0.	0.	0.	-.0000	.0000	-.0000	.0000	.0000	.0000	0.
.0040	4.	-1.	1.	0.	0.	0.	0.	-.0000	.0000	-.0000	.0000	.0000	.0000	0.
.0050	7.	-1.	0.	0.	0.	0.	1.	-.0000	.0000	-.0000	.0000	.0000	.0000	0.
.0060	11.	-1.	-0.	0.	0.	0.	1.	-.0000	.0000	-.0000	.0000	.0001	.0001	0.
.0070	15.	0.	-1.	0.	0.	1.	1.	-.0000	.0000	-.0000	.0000	.0001	.0001	1.
.0080	15.	2.	-3.	1.	1.	2.	2.	-.0000	.0000	-.0000	-.0000	.0001	.0001	1.
.0090	11.	4.	-5.	1.	1.	1.	1.	-.0000	.0000	-.0000	-.0000	.0000	.0000	1.
.0100	1.	4.	-7.	1.	0.	1.	1.	-.0000	-.0000	-.0000	-.0000	.0000	.0000	0.
.0110	2.	1.	2.	-1.	-0.	-0.	-0.	-.0000	-.0000	-.0000	-.0000	.0000	.0000	0.

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DIS/ADLPIPE

ADLPIPE STRESS ANALYSIS

83/12/02. 18.28.59.

S/RV PIPING KEWAUNEE GKW08F 2 RUP DISK
2 SAFETY COLD FKW24F--2 PSV

CONDITION 24
LOADS
SHOCK
PRESSURE
ENGLISH UNITS

INTERNAL FORCES IN THE PIPING
FORCES AND MOMENTS ACT ON THE PIPING

SECTION	48	MEMBER	1	SEQUENCE	823	LOCATION	END	TYPE	EL						
TIME	FX	FY	FZ	MX	MY	MZ	DX	DY	DZ	FX	RY	RZ	STRESS		
(SEC)	(LB)	(LB)	(LB)	(FT-LB)	(FT-LB)	(FT-LB)	(IN)	(IN)	(IN)	(DEG)	(DEG)	(DEG)	(PSI)		
.0120	-2.	-2.	5.	-3.	-1.	-0.	-.0000	.0000	-.0000	.0000	.0000	.0000	1.		
.0130	-8.	-3.	5.	-6.	-2.	-0.	.0000	.0000	.0000	.0001	-.0000	-.0000	2.		
.0140	-14.	-2.	2.	-10.	-3.	1.	.0000	.0000	.0000	.0001	-.0001	-.0001	4.		
.0150	-16.	-2.	0.	-14.	-4.	2.	.0000	.0000	.0000	.0002	-.0001	-.0001	6.		
.0160	-10.	-6.	3.	-18.	-4.	4.	.0000	.0000	.0000	.0003	-.0001	-.0000	7.		
.0170	1.	-9.	6.	-21.	-4.	6.	-.0000	.0000	.0000	.0003	-.0000	.0000	9.		
.0180	13.	-9.	7.	-25.	-4.	9.	-.0000	.0000	.0000	.0004	.0001	.0001	11.		
.0190	25.	-5.	2.	-28.	-3.	13.	-.0000	.0000	.0000	.0004	.0001	.0001	12.		
.0200	37.	2.	-6.	-32.	-2.	17.	-.0001	.0001	.0000	.0005	.0001	.0001	14.		
.0210	51.	5.	-11.	-37.	-1.	21.	-.0001	.0001	.0000	.0006	.0001	.0002	17.		
.0220	62.	2.	-8.	-45.	-2.	25.	-.0001	.0001	.0000	.0007	.0002	.0002	21.		
.0230	62.	-1.	-5.	-53.	-5.	28.	-.0001	.0001	.0001	.0008	.0002	.0002	24.		
.0240	49.	-5.	-6.	-58.	-7.	29.	-.0001	.0001	.0001	.0009	.0001	.0002	26.		
.0250	31.	-6.	-12.	-56.	-7.	26.	-.0000	.0001	.0001	.0009	-.0000	.0001	25.		
.0260	16.	1.	-17.	-50.	-6.	24.	-.0000	.0001	.0001	.0008	-.0001	-.0000	23.		
.0270	-2.	8.	-6.	-49.	-9.	22.	.0000	.0001	.0001	.0007	-.0002	-.0001	22.		
.0280	-29.	4.	17.	-47.	-13.	18.	.0001	.0000	.0000	.0005	-.0002	-.0002	21.		
.0290	-56.	-2.	23.	-39.	-14.	11.	.0001	.0000	.0000	.0004	-.0003	-.0003	17.		
.0300	-93.	-5.	18.	-32.	-16.	3.	.0002	.0000	.0001	.0004	-.0005	-.0004	14.		
.0310	-153.	-20.	32.	-29.	-25.	-6.	.0002	-.0000	.0001	.0003	-.0007	-.0006	16.		
.0320	-209.	-24.	36.	-21.	-32.	-16.	.0003	-.0000	.0001	.0002	-.0009	-.0009	17.		
.0330	-225.	-2.	16.	-5.	-31.	-20.	.0004	-.0001	.0001	-.0000	-.0010	-.0010	15.		
.0340	-205.	6.	22.	17.	-28.	-25.	.0003	-.0001	.0000	-.0004	-.0008	-.0009	16.		
.0350	-198.	-27.	76.	42.	-30.	-38.	.0003	-.0001	-.0001	-.0009	-.0004	-.0007	26.		
.0360	-237.	-47.	114.	69.	-35.	-56.	.0003	-.0002	-.0001	-.0014	-.0003	-.0006	38.		
.0370	-290.	-2.	82.	91.	-37.	-66.	.0004	-.0003	-.0001	-.0019	-.0007	-.0011	47.		
.0380	-306.	54.	33.	102.	-37.	-66.	.0005	-.0003	-.0001	-.0021	-.0010	-.0014	51.		
.0390	-256.	29.	46.	112.	-34.	-70.	.0004	-.0003	-.0002	-.0022	-.0006	-.0010	55.		
.0400	-182.	-56.	98.	130.	-28.	-83.	.0002	-.0002	-.0002	-.0021	.0002	-.0002	63.		
.0410	-149.	-92.	109.	151.	-21.	-95.	.0001	-.0002	-.0002	-.0022	.0005	.0002	72.		
.0420	-176.	-41.	56.	172.	-14.	-102.	.0002	-.0003	-.0002	-.0025	.0001	-.0002	80.		
.0430	-207.	18.	18.	194.	-9.	-108.	.0003	-.0003	-.0002	-.0030	-.0002	-.0006	89.		
.0440	-148.	39.	21.	212.	3.	-109.	.0002	-.0004	-.0003	-.0034	.0001	-.0004	96.		
.0450	8.	14.	51.	218.	22.	-100.	-.0001	-.0003	-.0004	-.0035	.0010	.0005	97.		
.0460	129.	-57.	93.	214.	35.	-95.	-.0004	-.0002	-.0004	-.0032	.0018	.0015	95.		
.0470	120.	-107.	82.	205.	39.	-100.	-.0004	-.0001	-.0003	-.0026	.0017	.0016	93.		
.0480	66.	-48.	-42.	196.	48.	-92.	-.0002	-.0001	-.0002	-.0021	.0007	.0009	89.		
.0490	126.	54.	-170.	182.	68.	-63.	-.0001	-.0001	-.0001	-.0018	.0002	.0004	82.		

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.0190	-256.	29.	46.	112.	-14.	-70.	.0004	-.0003	-.0002	-.0022	-.0006	-.0010	55.
.0400	-182.	-56.	98.	130.	-28.	-83.	.0002	-.0002	-.0002	-.0021	.0002	-.0002	63.
.0410	-149.	-92.	109.	151.	-21.	-95.	.0001	-.0002	-.0002	-.0022	.0005	.0002	72.
.0420	-176.	-41.	56.	172.	-14.	-102.	.0002	-.0003	-.0002	-.0025	.0001	-.0002	80.
.0430	-207.	18.	18.	194.	-9.	-108.	.0003	-.0003	-.0002	-.0030	-.0002	-.0006	89.
.0440	-145.	39.	21.	212.	3.	-109.	.0002	-.0004	-.0003	-.0034	.0001	-.0004	96.
.0450	8.	14.	51.	218.	22.	-100.	-.0001	-.0003	-.0004	-.0035	.0010	.0005	97.
.0460	129.	-57.	93.	214.	35.	-95.	-.0004	-.0002	-.0004	-.0032	.0018	.0015	95.
.0470	120.	-107.	82.	205.	39.	-100.	-.0004	-.0001	-.0003	-.0026	.0017	.0016	93.
.0480	66.	-48.	-42.	196.	48.	-92.	-.0002	-.0001	-.0002	-.0021	.0007	.0009	89.
.0490	126.	54.	-170.	182.	68.	-83.	-.0001	-.0001	-.0001	-.0018	.0002	.0004	82.

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INTERNAL FORCES IN THE PIPING
FORCES AND MOMENTS ACT ON THE PIPING

SECTION	MEMBER	SEQUENCE	LOCATION	END	TYPE	EL	TIME (SEC)	FX (LB)	FY (LB)	FZ (LB)	MX (FT-LB)	MY (FT-LB)	MZ (FT-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (DEG)	RY (DEG)	RZ (DEG)	STRESS (PSI)
48	1	023					.0500	311.	28.	-121.	161.	82.	-31.	-.0005	-.0000	-.0002	-.0016	.0013	.0014	73.
							.0510	471.	-110.	56.	134.	79.	-11.	-.0009	.0001	-.0003	-.0015	.0029	.0028	62.
							.0520	494.	-128.	89.	101.	72.	15.	-.0010	.0001	-.0003	-.0011	.0030	.0029	50.
							.0530	425.	36.	-104.	59.	74.	60.	-.0006	.0001	-.0001	-.0005	.0015	.0013	45.
							.0540	385.	136.	-247.	10.	72.	107.	-.0004	.0001	.0001	.0004	.0003	.0002	52.
							.0550	437.	20.	-154.	-42.	55.	140.	-.0005	.0003	.0001	.0013	.0010	.0008	63.
							.0560	544.	-114.	-14.	-90.	40.	177.	-.0009	.0004	.0001	.0019	.0021	.0018	81.
							.0570	589.	-61.	-33.	-129.	34.	229.	-.0009	.0004	.0001	.0021	.0020	.0015	106.
							.0580	481.	76.	-112.	-164.	16.	275.	-.0005	.0003	.0001	.0021	.0008	-.0001	129.
							.0590	292.	130.	-96.	-202.	-21.	303.	-.0001	.0001	.0002	.0020	-.0002	-.0015	146.
							.0600	185.	121.	-36.	-245.	-55.	331.	.0001	.0001	.0002	.0022	-.0006	-.0022	167.
							.0610	183.	108.	-6.	-290.	-73.	370.	.0001	.0001	.0002	.0027	-.0006	-.0024	191.
							.0620	135.	61.	40.	-333.	-96.	394.	.0001	.0002	.0003	.0032	-.0007	-.0026	211.
							.0630	-46.	19.	82.	-362.	-130.	396.	.0004	.0002	.0004	.0036	-.0014	-.0034	222.
							.0640	-262.	88.	32.	-368.	-151.	392.	.0009	.0001	.0005	.0035	-.0029	-.0049	224.
							.0650	-405.	194.	-18.	-352.	-156.	385.	.0012	-.0001	.0004	.0029	-.0039	-.0061	218.
							.0660	-500.	168.	102.	-326.	-168.	355.	.0013	-.0002	.0003	.0019	-.0038	-.0062	205.
							.0670	-613.	72.	285.	-300.	-187.	305.	.0013	-.0003	.0002	.0011	-.0034	-.0059	187.
							.0680	-740.	102.	281.	-273.	-185.	259.	.0015	-.0004	.0002	.0006	-.0040	-.0063	168.
							.0690	-851.	201.	133.	-242.	-163.	212.	.0018	-.0005	.0002	.0005	-.0052	-.0071	145.
							.0700	-925.	151.	99.	-202.	-142.	138.	.0019	-.0004	.0003	.0008	-.0056	-.0068	114.
							.0710	-940.	-19.	196.	-149.	-121.	41.	.0017	-.0003	.0003	.0008	-.0049	-.0054	79.
							.0720	-896.	-79.	222.	-78.	-81.	-50.	.0015	-.0003	.0002	.0003	-.0043	-.0042	49.
							.0730	-839.	7.	142.	3.	-27.	-132.	.0014	-.0004	.0001	-.0007	-.0042	-.0037	54.
							.0740	-773.	58.	101.	87.	25.	-221.	.0013	-.0005	-.0000	-.0018	-.0039	-.0029	96.
							.0750	-638.	-0.	124.	166.	79.	-318.	.0009	-.0004	-.0001	-.0024	-.0029	-.0012	148.
							.0760	-409.	-91.	108.	237.	146.	-406.	.0004	-.0003	-.0002	-.0024	-.0015	.0011	198.
							.0770	-166.	-163.	24.	298.	217.	-484.	-.0001	-.0000	-.0002	-.0019	-.0003	.0032	244.
							.0780	27.	-218.	-72.	349.	277.	-555.	-.0005	.0002	-.0001	-.0013	.0005	.0050	286.
							.0790	212.	-236.	-153.	393.	328.	-611.	-.0008	.0003	-.0001	-.0011	.0012	.0065	320.
							.0800	449.	-219.	-202.	427.	374.	-642.	-.0013	.0004	-.0002	-.0012	.0024	.0080	344.
							.0810	701.	-230.	-181.	447.	401.	-656.	-.0018	.0004	-.0003	-.0015	.0039	.0097	358.
							.0820	879.	-278.	-128.	447.	413.	-660.	-.0022	.0005	-.0004	-.0015	.0053	.0110	360.
							.0830	947.	-287.	-148.	423.	404.	-645.	-.0023	.0006	-.0003	-.0010	.0056	.0114	350.
							.0840	938.	-244.	-249.	378.	385.	-606.	-.0022	.0007	-.0002	-.0000	.0051	.0109	326.
							.0850	896.	-236.	-301.	320.	347.	-552.	-.0021	.0008	-.0001	.0009	.0047	.0103	291.
							.0860	823.	-292.	-226.	254.	285.	-489.	-.0020	.0008	-.0000	.0015	.0048	.0098	249.
							.0870	684.	-309.	-108.	185.	203.	-410.	-.0018	.0007	-.0000	.0016	.0047	.0087	198.

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INTERNAL FORCES IN THE PIPING
FORCES AND MOMENTS ACT ON THE PIPING

.0770	-166.	-163.	-24.	298.	217.	-484.	-.0001	-.0000	-.0002	-.0019	-.0003	.0032	244.
.0780	27.	-218.	-72.	349.	277.	-555.	-.0005	.0002	-.0001	-.0013	.0005	.0050	286.
.0790	212.	-236.	-153.	393.	328.	-611.	-.0008	.0003	-.0001	-.0011	.0012	.0065	320.
.0800	449.	-219.	-202.	427.	374.	-642.	-.0013	.0004	-.0002	-.0012	.0024	.0080	344.
.0810	701.	-230.	-181.	447.	404.	-656.	-.0018	.0004	-.0003	-.0015	.0039	.0097	358.
.0820	879.	-278.	-128.	447.	412.	-660.	-.0022	.0005	-.0004	-.0015	.0053	.0110	360.
.0830	947.	-287.	-148.	423.	404.	-645.	-.0023	.0006	-.0003	-.0010	.0056	.0114	350.
.0840	938.	-244.	-249.	378.	385.	-606.	-.0022	.0007	-.0002	-.0000	.0051	.0109	326.
.0850	896.	-236.	-301.	320.	347.	-552.	-.0021	.0008	-.0001	.0009	.0047	.0103	291.
.0860	823.	-292.	-226.	254.	285.	-489.	-.0020	.0008	-.0000	.0015	.0048	.0098	249.
.0870	684.	-309.	-108.	185.	203.	-410.	-.0018	.0007	-.0000	.0016	.0047	.0087	198.

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INTERNAL FORCES IN THE PIPING
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SECTION	48	MEMBER	1	SEQUENCE	823	LOCATION	END	TYPE	EL	DZ	RX	RY	RZ	STRESS
TIME	FX	FY	FZ	MX	MY	MZ	DX	DY	DZ	RX	RY	RZ	STRESS	
(SEC)	(LB)	(LB)	(LB)	(FT-LB)	(FT-LB)	(FT-LB)	(IN)	(IN)	(IN)	(DEG)	(DEG)	(DEG)	(PSI)	
.0880	451.	-212.	-46.	112.	109.	-311.	-.0013	.0005	-.0001	.0011	.0036	.0064	140.	
.0890	144.	-73.	-10.	34.	3.	-199.	-.0006	.0002	-.0001	.0006	.0021	.0034	81.	
.0900	-171.	-10.	78.	-54.	-114.	-85.	.0000	.0000	-.0000	.0003	.0008	.0007	61.	
.0910	-450.	-23.	207.	-150.	-234.	31.	.0005	-.0001	.0000	.0005	-.0000	-.0015	112.	
.0920	-707.	-30.	306.	-240.	-340.	153.	.0010	-.0002	.0001	.0008	-.0009	-.0037	182.	
.0930	-971.	16.	360.	-339.	-454.	274.	.0016	-.0003	.0002	.0010	-.0022	-.0061	253.	
.0940	-1226.	88.	419.	-416.	-551.	386.	.0021	-.0005	.0002	.0008	-.0034	-.0086	317.	
.0950	-1426.	139.	525.	-477.	-633.	481.	.0025	-.0008	.0001	.0002	-.0041	-.0106	371.	
.0960	-1548.	156.	655.	-510.	-691.	556.	.0028	-.0009	.0000	-.0006	-.0043	-.0118	411.	
.0970	-1626.	152.	758.	-530.	-723.	604.	.0029	-.0011	-.0001	-.0011	-.0044	-.0126	434.	
.0980	-1694.	143.	794.	-534.	-727.	623.	.0030	-.0011	-.0001	-.0013	-.0048	-.0132	440.	
.0990	-1734.	139.	758.	-521.	-697.	612.	.0032	-.0011	-.0000	-.0011	-.0054	-.0135	427.	
.1000	-1706.	127.	687.	-483.	-633.	571.	.0032	-.0010	.0001	-.0009	-.0060	-.0133	393.	
.1010	-1615.	86.	634.	-418.	-539.	496.	.0030	-.0010	.0001	-.0009	-.0061	-.0124	338.	
.1020	-1517.	24.	605.	-327.	-426.	384.	.0028	-.0009	.0001	-.0011	-.0060	-.0110	265.	
.1030	-1446.	-7.	537.	-214.	-294.	243.	.0027	-.0009	.0001	-.0015	-.0064	-.0099	176.	
.1040	-1362.	25.	371.	-87.	-141.	88.	.0026	-.0008	.0001	-.0018	-.0071	-.0088	75.	
.1050	-1220.	23.	190.	46.	24.	-78.	.0024	-.0007	.0002	-.0019	-.0075	-.0073	38.	
.1060	-1017.	-103.	91.	177.	185.	-257.	.0019	-.0005	.0002	-.0015	-.0071	-.0047	146.	
.1070	-785.	-281.	25.	306.	336.	-438.	.0014	-.0002	.0003	-.0010	-.0062	-.0017	253.	
.1080	-516.	-320.	-177.	476.	488.	-587.	.0009	.0001	.0004	-.0007	-.0057	.0007	353.	
.1090	-163.	-199.	-502.	565.	640.	-692.	.0004	.0002	.0004	-.0007	-.0055	.0025	441.	
.1100	149.	-356.	-458.	667.	716.	-802.	-.0003	.0004	.0003	-.0011	-.0032	.0057	508.	
.1110	482.	-575.	-308.	744.	749.	-880.	-.0012	.0006	.0001	-.0014	-.0001	.0092	551.	
.1120	931.	-479.	-493.	803.	792.	-866.	-.0019	.0007	-.0000	-.0018	.0018	.0112	571.	
.1130	1413.	-316.	-750.	833.	807.	-793.	-.0027	.0008	-.0001	-.0018	.0037	.0127	564.	
.1140	1810.	-441.	-676.	827.	739.	-712.	-.0035	.0010	-.0003	-.0017	.0072	.0151	529.	
.1150	2141.	-617.	-488.	796.	618.	-599.	-.0044	.0012	-.0005	-.0018	.0109	.0174	471.	
.1160	2476.	-458.	-569.	755.	495.	-404.	-.0049	.0012	-.0006	-.0026	.0133	.0174	397.	
.1170	2758.	-146.	-709.	694.	346.	-156.	-.0052	.0010	-.0009	-.0039	.0149	.0162	317.	
.1180	2821.	-149.	-435.	596.	108.	70.	-.0054	.0007	-.0012	-.0054	.0177	.0157	245.	
.1190	2693.	-238.	-55.	477.	-174.	295.	-.0054	.0005	-.0015	-.0067	.0201	.0145	236.	
.1200	2515.	14.	-69.	355.	-427.	573.	-.0049	.0002	-.0016	-.0078	.0200	.0109	319.	
.1210	2294.	356.	-191.	229.	-658.	864.	-.0042	-.0002	-.0016	-.0087	.0190	.0064	445.	
.1220	1928.	333.	97.	100.	-936.	1091.	-.0037	-.0005	-.0018	-.0097	.0193	.0034	578.	
.1230	1412.	187.	569.	-23.	-1227.	1272.	-.0031	-.0009	-.0020	-.0110	.0197	.0006	709.	
.1240	831.	414.	694.	-129.	-1462.	1465.	-.0019	-.0014	-.0021	-.0129	.0176	-.0046	832.	
.1250	223.	825.	630.	-229.	-1649.	1647.	-.0005	-.0021	-.0022	-.0147	.0141	-.0108	940.	

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.1150	2141.	-617.	-488.	796.	618.	-599.	-0044	.0012	-.0005	-.0018	.0109	.0174	471.
.1160	2476.	-458.	-569.	755.	495.	-484.	-.0049	.0012	-.0006	-.0026	.0133	.0174	397.
.1170	2758.	-146.	-709.	694.	346.	-156.	-.0052	.0010	-.0009	-.0039	.0149	.0162	317.
.1180	2821.	-149.	-435.	596.	108.	70.	-.0054	.0007	-.0012	-.0054	.0177	.0157	245.
.1190	2693.	-238.	-55.	477.	-174.	295.	-.0054	.0005	-.0015	-.0067	.0201	.0145	236.
.1200	2515.	14.	-69.	355.	-422.	573.	-.0049	.0002	-.0016	-.0078	.0200	.0109	319.
.1210	2294.	356.	-191.	229.	-658.	864.	-.0042	-.0002	-.0016	-.0087	.0190	.0064	445.
.1220	1928.	333.	97.	100.	-936.	1091.	-.0037	-.0005	-.0018	-.0097	.0193	.0034	578.
.1230	1412.	187.	569.	-23.	-1227.	1272.	-.0031	-.0009	-.0020	-.0110	.0197	.0006	709.
.1240	831.	414.	694.	-129.	-1462.	1465.	-.0019	-.0014	-.0021	-.0129	.0176	-.0046	832.
.1250	223.	825.	630.	-229.	-1649.	1647.	-.0005	-.0021	-.0022	-.0147	.0141	-.0108	940.

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INTERNAL FORCES IN THE PIPING
FORCES AND MOMENTS ACT ON THE PIPING

SECTION	48	MEMBER	1	SEQUENCE	823	LOCATION	END	TYPE	EL					
TIME (SEC)	FX (LB)	FY (LB)	FZ (LB)	MX (FT-LB)	MY (FT-LB)	MZ (FT-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (DEG)	RY (DEG)	RZ (DEG)	STRESS (PSI)	
.1260	-408.	899.	862.	-338.	-1834.	1750.	.0006	-.0025	-.0022	-.0158	.0119	-.0150	1026.	
.1270	-963.	713.	1235.	-435.	-1979.	1780.	.0014	-.0027	-.0022	-.0159	.0109	-.0172	1082.	
.1280	-1349.	720.	1272.	-497.	-2017.	1790.	.0021	-.0028	-.0021	-.0153	.0086	-.0194	1100.	
.1290	-1618.	877.	1068.	-516.	-1961.	1760.	.0028	-.0029	-.0018	-.0145	.0054	-.0217	1078.	
.1300	-1879.	816.	1090.	-495.	-1872.	1633.	.0033	-.0029	-.0016	-.0140	.0034	-.0222	1016.	
.1310	-2075.	628.	1270.	-438.	-1737.	1426.	.0035	-.0029	-.0016	-.0139	.0023	-.0212	919.	
.1320	-2059.	662.	1192.	-345.	-1501.	1201.	.0035	-.0028	-.0016	-.0139	.0006	-.0201	784.	
.1330	-1841.	784.	921.	-235.	-1179.	950.	.0033	-.0027	-.0014	-.0133	-.0012	-.0183	615.	
.1340	-1558.	599.	813.	-123.	-828.	620.	.0028	-.0023	-.0012	-.0113	-.0018	-.0141	418.	
.1350	-1250.	206.	758.	1.	-444.	224.	.0020	-.0016	-.0009	-.0081	-.0020	-.0086	199.	
.1360	-871.	3.	413.	152.	8.	-181.	.0014	-.0008	-.0004	-.0046	-.0034	-.0037	95.	
.1370	-454.	-49.	-61.	328.	496.	-591.	.0008	-.0002	.0001	-.0016	-.0055	.0007	337.	
.1380	-91.	-258.	-249.	510.	954.	-1036.	.0001	.0003	.0004	.0005	-.0063	.0059	601.	
.1390	234.	-548.	-249.	683.	1380.	-1486.	-.0007	.0008	.0005	.0020	-.0064	.0116	859.	
.1400	581.	-641.	-452.	842.	1809.	-1885.	-.0013	.0012	.0007	.0036	-.0074	.0161	1101.	
.1410	883.	-666.	-800.	969.	2215.	-2239.	-.0017	.0017	.0010	.0060	-.0093	.0196	1322.	
.1420	1014.	-934.	-975.	1060.	2543.	-2585.	-.0020	.0023	.0015	.0093	-.0108	.0233	1516.	
.1430	989.	-1302.	-1038.	1121.	2790.	-2896.	-.0021	.0029	.0020	.0128	-.0122	.0264	1675.	
.1440	921.	-1409.	-1241.	1164.	2986.	-3109.	-.0019	.0032	.0024	.0153	-.0144	.0275	1792.	
.1450	834.	-1314.	-1429.	1182.	3109.	-3220.	-.0016	.0033	.0026	.0162	-.0165	.0271	1858.	
.1460	682.	-1319.	-1294.	1164.	3113.	-3264.	-.0014	.0032	.0025	.0157	-.0171	.0267	1869.	
.1470	395.	-1387.	-994.	1108.	3014.	-3237.	-.0011	.0029	.0023	.0148	-.0170	.0257	1830.	
.1480	65.	-1282.	-890.	1015.	2854.	-3108.	-.0005	.0026	.0023	.0141	-.0179	.0229	1742.	
.1490	-332.	-1088.	-930.	884.	2629.	-2892.	.0004	.0024	.0024	.0139	-.0196	.0186	1608.	
.1500	-788.	-1040.	-807.	721.	2316.	-2625.	.0013	.0021	.0024	.0139	-.0203	.0145	1434.	
.1510	-1217.	-1045.	-520.	542.	1933.	-2304.	.0019	.0018	.0023	.0131	-.0197	.0105	1226.	
.1520	-1557.	-854.	-278.	370.	1522.	-1908.	.0025	.0013	.0020	.0108	-.0188	.0058	991.	
.1530	-1873.	-511.	-52.	212.	1085.	-1468.	.0032	.0005	.0015	.0071	-.0178	.0004	737.	
.1540	-2242.	-240.	296.	65.	613.	-1032.	.0038	-.0003	.0009	.0029	-.0162	-.0049	483.	
.1550	-2611.	-42.	651.	-74.	138.	-609.	.0044	-.0011	.0004	-.0009	-.0144	-.0099	252.	
.1560	-2870.	205.	822.	-208.	-298.	-186.	.0050	-.0017	.0000	-.0038	-.0130	-.0146	164.	
.1570	-2995.	421.	896.	-328.	-686.	213.	.0053	-.0021	-.0003	-.0060	-.0114	-.0184	317.	
.1580	-3035.	479.	1074.	-429.	-1041.	555.	.0053	-.0024	-.0005	-.0077	-.0088	-.0206	503.	
.1590	-3010.	513.	1272.	-494.	-1344.	836.	.0051	-.0027	-.0009	-.0097	-.0059	-.0219	665.	
.1600	-2900.	676.	1331.	-509.	-1566.	1064.	.0049	-.0030	-.0013	-.0122	-.0036	-.0232	787.	
.1610	-2702.	882.	1300.	-475.	-1706.	1227.	.0046	-.0033	-.0016	-.0147	-.0015	-.0238	865.	
.1620	-2412.	943.	1316.	-412.	-1778.	1306.	.0040	-.0034	-.0019	-.0166	.0011	-.0228	901.	
.1630	-1994.	863.	1320.	-328.	-1773.	1310.	.0032	-.0033	-.0021	-.0174	.0042	-.0201	894.	

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S/RV PIPING KEWAUNEE GKW08F 2 RUP DISK
2 SAFETY COLD FKW24F--2 PSV

CONDITION 24
LOADS
SHOCK
PRESSURE
ENGLISH UNITS

INTERNAL FORCES IN THE PIPING
FORCES AND MOMENTS ACT ON THE PIPING

.1530	-1873.	-511.	-52.	212.	1085.	-1468.	.0032	.0005	.0015	.0071	-.0178	.0004	737.
.1540	-2242.	-240.	296.	65.	613.	-1032.	.0038	-.0003	.0009	.0029	-.0162	-.0049	483.
.1550	-2611.	-42.	651.	-74.	138.	-609.	.0044	-.0011	.0004	-.0009	-.0144	-.0099	252.
.1560	-2870.	205.	822.	-208.	-298.	-186.	.0050	-.0017	.0000	-.0038	-.0130	-.0146	164.
.1570	-2995.	421.	896.	-378.	-686.	213.	.0053	-.0021	-.0003	-.0060	-.0114	-.0184	317.
.1580	-3035.	479.	1074.	-429.	-1041.	555.	.0053	-.0024	-.0005	-.0077	-.0088	-.0206	503.
.1590	-3010.	513.	1272.	-494.	-1344.	836.	.0051	-.0027	-.0009	-.0097	-.0059	-.0219	665.
.1600	-2900.	676.	1331.	-509.	-1566.	1064.	.0049	-.0030	-.0013	-.0122	-.0036	-.0232	787.
.1610	-2702.	882.	1300.	-475.	-1706.	1227.	.0046	-.0033	-.0016	-.0147	-.0015	-.0238	865.
.1620	-2412.	943.	1316.	-412.	-1778.	1306.	.0040	-.0034	-.0019	-.0166	.0011	-.0228	901.
.1630	-1954.	863.	1320.	-328.	-1773.	1310.	.0032	-.0033	-.0021	-.0174	.0042	-.0201	894.

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CONDITION 24

LOADS

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ENGLISH UNITS

INTERNAL FORCES IN THE PIPING
FORCES AND MOMENTS ACT ON THE PIPING

SECTION	48	MEMBER	1	SEQUENCE	823	LOCATION	END	TYPE	EL					
TIME	FX	FY	FZ	MX	MY	MZ	DX	DY	DZ	RX	RY	RZ	STRESS	
(SEC)	(LB)	(LB)	(LB)	(FT-LB)	(FT-LB)	(FT-LB)	(IN)	(IN)	(IN)	(DEG)	(DEG)	(DEG)	(PSI)	
.1640	-1447.	773.	1175.	-229.	-1681.	1261.	.0021	-.0029	-.0022	-.0170	.0069	-.0165	848.	
.1650	-845.	682.	922.	-120.	-1520.	1163.	.0011	-.0025	-.0021	-.0158	.0090	-.0124	770.	
.1660	-255.	527.	702.	-1.	-1318.	1009.	-.0000	-.0019	-.0020	-.0142	.0111	-.0078	666.	
.1670	324.	354.	522.	128.	-1085.	817.	-.0012	-.0014	-.0019	-.0127	.0130	-.0029	547.	
.1680	919.	248.	303.	264.	-818.	613.	-.0022	-.0009	-.0018	-.0115	.0146	.0018	424.	
.1690	1514.	168.	68.	395.	-532.	408.	-.0033	-.0005	-.0017	-.0102	.0158	.0064	312.	
.1700	2046.	18.	-110.	507.	-255.	202.	-.0042	.0000	-.0015	-.0085	.0169	.0109	242.	
.1710	2460.	-180.	-258.	589.	-1.	6.	-.0050	.0005	-.0013	-.0063	.0175	.0149	237.	
.1720	2721.	-325.	-445.	636.	223.	-156.	-.0054	.0010	-.0010	-.0038	.0170	.0175	278.	
.1730	2819.	-396.	-639.	649.	404.	-276.	-.0055	.0014	-.0007	-.0015	.0155	.0187	326.	
.1740	2766.	-453.	-732.	631.	526.	-354.	-.0053	.0016	-.0004	.0003	.0138	.0188	359.	
.1750	2580.	-502.	-703.	586.	588.	-385.	-.0049	.0016	-.0002	.0014	.0119	.0179	367.	
.1760	2274.	-489.	-635.	521.	597.	-363.	-.0042	.0015	-.0001	.0019	.0096	.0157	350.	
.1770	1840.	-402.	-574.	435.	556.	-288.	-.0033	.0012	.0001	.0019	.0067	.0122	306.	
.1780	1277.	-305.	-477.	324.	464.	-174.	-.0021	.0009	.0002	.0018	.0034	.0077	237.	
.1790	619.	-226.	-321.	186.	321.	-24.	-.0008	.0005	.0003	.0016	-.0000	.0026	149.	
.1800	-70.	-118.	-154.	27.	146.	162.	.0006	.0001	.0004	.0014	-.0035	-.0030	88.	
.1810	-736.	36.	0.	-142.	-44.	377.	.0020	-.0004	.0005	.0009	-.0069	-.0088	163.	
.1820	-1360.	190.	183.	-311.	-243.	603.	.0033	-.0008	.0005	.0002	-.0098	-.0144	289.	
.1830	-1920.	316.	391.	-469.	-437.	820.	.0044	-.0013	.0005	-.0007	-.0122	-.0195	418.	
.1840	-2383.	450.	557.	-603.	-604.	1020.	.0054	-.0017	.0004	-.0015	-.0142	-.0240	534.	
.1850	-2727.	593.	660.	-712.	-731.	1193.	.0062	-.0021	.0004	-.0023	-.0160	-.0277	630.	
.1860	-2945.	689.	751.	-797.	-818.	1323.	.0067	-.0023	.0004	-.0028	-.0170	-.0302	702.	
.1870	-3025.	728.	832.	-863.	-860.	1406.	.0069	-.0024	.0003	-.0029	-.0174	-.0314	747.	
.1880	-2951.	749.	842.	-903.	-843.	1438.	.0068	-.0024	.0004	-.0025	-.0174	-.0313	761.	
.1890	-2738.	751.	770.	-912.	-764.	1415.	.0065	-.0022	.0004	-.0016	-.0171	-.0301	742.	
.1900	-2433.	681.	674.	-888.	-632.	1323.	.0059	-.0019	.0005	-.0003	-.0163	-.0276	688.	
.1910	-2063.	546.	566.	-827.	-455.	1165.	.0052	-.0015	.0006	.0012	-.0152	-.0241	602.	
.1920	-1626.	417.	402.	-734.	-232.	958.	.0043	-.0011	.0008	.0028	-.0141	-.0199	493.	
.1930	-1132.	302.	195.	-618.	23.	713.	.0034	-.0006	.0009	.0045	-.0129	-.0152	379.	
.1940	-618.	147.	10.	-489.	291.	437.	.0023	-.0000	.0010	.0061	-.0114	-.0100	288.	
.1950	-119.	-55.	-150.	-357.	556.	141.	.0013	.0005	.0012	.0079	-.0098	-.0044	271.	
.1960	341.	-254.	-339.	-227.	810.	-155.	.0003	.0011	.0013	.0100	-.0083	.0009	343.	
.1970	741.	-433.	-553.	-103.	1040.	-438.	-.0006	.0017	.0015	.0120	-.0072	.0057	455.	
.1980	1069.	-610.	-729.	12.	1227.	-694.	-.0013	.0022	.0017	.0137	-.0061	.0101	566.	
.1990	1335.	-765.	-843.	114.	1359.	-907.	-.0020	.0025	.0018	.0148	-.0048	.0138	657.	
.2000	1546.	-859.	-907.	198.	1430.	-1059.	-.0025	.0028	.0018	.0152	-.0033	.0166	718.	
.2010	1682.	-895.	-919.	258.	1431.	-1145.	-.0029	.0028	.0017	.0148	-.0018	.0185	743.	

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2 SAFETY COLD FKW24F--2 PSV

CONDITION 24

LOADS

SHOCK

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ENGLISH UNITS

INTERNAL FORCES IN THE PIPING
FORCES AND MOMENTS ACT ON THE PIPING

.1910	-2067.	546.	566.	-827.	-455.	1165.	.0052	-.0015	.0006	.0012	-.0152	-.0241	602.
.1920	-1626.	417.	402.	-734.	-232.	958.	.0043	-.0011	.0008	.0028	-.0141	-.0199	493.
.1930	-1132.	302.	195.	-618.	23.	713.	.0034	-.0006	.0009	.0045	-.0129	-.0152	379.
.1940	-615.	147.	10.	-429.	291.	437.	.0023	-.0000	.0010	.0061	-.0114	-.0100	288.
.1950	-119.	-55.	-150.	-357.	556.	141.	.0013	.0005	.0012	.0079	-.0098	-.0044	271.
.1960	341.	-254.	-339.	-227.	210.	-155.	.0003	.0011	.0013	.0100	-.0023	.0009	343.
.1970	741.	-433.	-553.	-103.	1040.	-438.	-.0006	.0017	.0015	.0120	-.0072	.0057	455.
.1980	1069.	-610.	-729.	12.	1227.	-694.	-.0013	.0022	.0017	.0137	-.0061	.0101	566.
.1990	1335.	-765.	-843.	114.	1359.	-907.	-.0020	.0025	.0018	.0148	-.0048	.0138	657.
.2000	1546.	-859.	-907.	198.	1430.	-1059.	-.0025	.0028	.0018	.0152	-.0033	.0166	718.
.2010	1682.	-895.	-919.	258.	1431.	-1145.	-.0029	.0028	.0017	.0148	-.0018	.0185	743.

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ADLPIPE STRESS ANALYSIS

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S/RV PIPING KEWAUNEE GKW08F 2 RUP DISK

2 SAFETY COLD FKW24F--2 PSV

CONDITION 24

LOADS

SHOCK

PRESSURE

ENGLISH UNITS

INTERNAL FORCES IN THE PIPING
FORCES AND MOMENTS ACT ON THE PIPING

SECTION	48	MEMBER	1	SEQUENCE	823	LOCATION	END	TYPE	EL					
TIME	FX	FY	FZ	MX	MY	MZ	DX	DY	DZ	RX	RY	RZ	STRESS	
(SEC)	(LB)	(LB)	(LB)	(FT-LB)	(FT-LB)	(FT-LB)	(IN)	(IN)	(IN)	(DEG)	(DEG)	(DEG)	(PSI)	
.2020	1720.	-898.	-876.	290.	1358.	-1154.	-.0032	.0028	.0015	.0139	-.0004	.0193	727.	
.2030	1660.	-871.	-798.	291.	1211.	-1115.	-.0032	.0027	.0014	.0127	.0010	.0191	671.	
.2040	1521.	-804.	-707.	266.	1001.	-1000.	-.0031	.0024	.0012	.0112	.0022	.0178	578.	
.2050	1319.	-707.	-582.	221.	733.	-826.	-.0028	.0021	.0009	.0093	.0035	.0157	452.	
.2060	1065.	-587.	-393.	163.	415.	-604.	-.0025	.0016	.0006	.0068	.0049	.0131	301.	
.2070	769.	-429.	-154.	98.	60.	-345.	-.0021	.0011	.0001	.0036	.0064	.0098	146.	
.2080	441.	-223.	99.	32.	-314.	-82.	-.0016	.0004	-.0003	-.0002	.0078	.0060	129.	
.2090	90.	1.	352.	-34.	-693.	226.	-.0010	-.0003	-.0008	-.0041	.0090	.0019	293.	
.2100	-263.	202.	599.	-98.	-1059.	502.	-.0004	-.0010	-.0013	-.0077	.0102	-.0020	472.	
.2110	-591.	361.	824.	-159.	-1396.	751.	.0001	-.0015	-.0017	-.0109	.0112	-.0055	639.	
.2120	-873.	491.	1004.	-210.	-1686.	961.	.0005	-.0020	-.0020	-.0134	.0122	-.0085	783.	
.2130	-1096.	595.	1139.	-245.	-1918.	1121.	.0008	-.0024	-.0023	-.0155	.0129	-.0107	897.	
.2140	-1251.	669.	1246.	-256.	-2082.	1220.	.0010	-.0027	-.0025	-.0172	.0136	-.0122	974.	
.2150	-1326.	709.	1321.	-240.	-2171.	1251.	.0011	-.0028	-.0027	-.0185	.0143	-.0127	1010.	
.2160	-1314.	718.	1346.	-198.	-2178.	1213.	.0010	-.0029	-.0028	-.0193	.0149	-.0122	1004.	
.2170	-1220.	688.	1308.	-132.	-2104.	1106.	.0008	-.0028	-.0028	-.0194	.0152	-.0108	956.	
.2180	-1053.	603.	1210.	-50.	-1955.	935.	.0004	-.0026	-.0027	-.0187	.0153	-.0085	870.	
.2190	-822.	465.	1063.	43.	-1737.	708.	-.0001	-.0022	-.0025	-.0170	.0153	-.0054	753.	
.2200	-533.	294.	870.	144.	-1462.	437.	-.0006	-.0017	-.0022	-.0148	.0150	-.0016	615.	
.2210	-206.	109.	648.	251.	-1143.	137.	-.0012	-.0011	-.0019	-.0121	.0146	.0025	473.	
.2220	124.	-80.	421.	362.	-799.	-181.	-.0018	-.0006	-.0015	-.0093	.0140	.0068	359.	
.2230	430.	-263.	195.	471.	-446.	-501.	-.0024	.0000	-.0012	-.0066	.0130	.0108	329.	
.2240	703.	-426.	-31.	574.	-97.	-807.	-.0028	.0005	-.0008	-.0039	.0119	.0145	399.	
.2250	940.	-573.	-246.	661.	231.	-1081.	-.0032	.0010	-.0005	-.0013	.0105	.0176	517.	
.2260	1121.	-713.	-427.	727.	521.	-1313.	-.0035	.0015	-.0001	.0012	.0091	.0202	637.	
.2270	1216.	-829.	-575.	766.	759.	-1490.	-.0035	.0018	.0002	.0034	.0074	.0218	738.	
.2280	1213.	-892.	-698.	779.	935.	-1604.	-.0034	.0021	.0005	.0052	.0055	.0222	808.	
.2290	1119.	-898.	-781.	765.	1044.	-1647.	-.0031	.0021	.0007	.0064	.0034	.0216	841.	
.2300	948.	-867.	-796.	727.	1082.	-1620.	-.0026	.0021	.0009	.0069	.0015	.0199	834.	
.2310	715.	-799.	-745.	666.	1048.	-1524.	-.0021	.0019	.0009	.0067	-.0002	.0174	789.	
.2320	419.	-680.	-661.	583.	949.	-1362.	-.0014	.0016	.0009	.0059	-.0019	.0140	706.	
.2330	62.	-519.	-554.	479.	791.	-1143.	-.0005	.0011	.0008	.0047	-.0036	.0097	590.	
.2340	-342.	-346.	-411.	357.	581.	-881.	.0004	.0007	.0007	.0033	-.0051	.0050	447.	
.2350	-766.	-171.	-235.	222.	330.	-588.	.0013	.0002	.0006	.0016	-.0063	-.0000	285.	
.2360	-1185.	19.	-55.	82.	57.	-277.	.0022	-.0004	.0004	-.0002	-.0073	-.0051	118.	
.2370	-1586.	225.	116.	-54.	-225.	39.	.0030	-.0009	.0002	-.0021	-.0082	-.0102	94.	
.2380	-1962.	421.	289.	-179.	-504.	340.	.0038	-.0015	.0000	-.0042	-.0088	-.0149	254.	
.2390	-2296.	586.	466.	-286.	-766.	610.	.0045	-.0020	-.0002	-.0062	-.0091	-.0190	409.	

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S/RV PIPING KEWAUNEE GKW08F 2 RUP DISK

2 SAFETY COLD FKW24F--2 PSV

CONDITION 24

LOADS

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INTERNAL FORCES IN THE PIPING
FORCES AND MOMENTS ACT ON THE PIPING

.2290	1119.	-898.	-781.	765.	1044.	-1647.	-.0071	.0021	.0007	.0064	.0034	.0216	841.
.2300	948.	-867.	-796.	727.	1082.	-1620.	-.0026	.0021	.0009	.0069	.0015	.0199	834.
.2310	715.	-799.	-745.	666.	1048.	-1524.	-.0021	.0019	.0009	.0067	-.0002	.0174	789.
.2320	419.	-680.	-661.	587.	949.	-1362.	-.0014	.0016	.0009	.0059	-.0019	.0140	706.
.2330	62.	-519.	-554.	479.	791.	-1143.	-.0005	.0011	.0008	.0047	-.0036	.0097	590.
.2340	-342.	-346.	-411.	357.	581.	-881.	.0004	.0007	.0007	.0033	-.0051	.0050	447.
.2350	-766.	-171.	-235.	222.	330.	-588.	.0013	.0002	.0006	.0016	-.0063	-.0000	285.
.2360	-1185.	19.	-55.	82.	57.	-277.	.0022	-.0004	.0004	-.0002	-.0073	-.0051	118.
.2370	-1586.	225.	116.	-54.	-225.	39.	.0030	-.0009	.0002	-.0021	-.0082	-.0102	94.
.2380	-1062.	421.	269.	-179.	-504.	340.	.0038	-.0015	.0000	-.0042	-.0088	-.0149	254.
.2390	-2294.	586.	466.	-286.	-766.	610.	.0045	-.0020	-.0002	-.0062	-.0091	-.0190	409.

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DIS/ADLPIPE

ADLPIPE STRESS ANALYSIS

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S/RV PIPING KEWAUNEE GKW08F 2 RUP DISK
2 SAFETY COLD FKW24F--2 PSV

CONDITION 24
LOADS
SHOCK
PRESSURE
ENGLISH UNITS

INTERNAL FORCES IN THE PIPING
FORCES AND MOMENTS ACT ON THE PIPING

SECTION	48	MEMBER	1	SEQUENCE	823	LOCATION	END	TYPE	EL						
TIME (SEC)	FX (LB)	FY (LB)	FZ (LB)	MX (FT-LB)	MY (FT-LB)	MZ (FT-LB)	DX (IN)	DY (IN)	DZ (IN)	RX (DEG)	RY (DEG)	RZ (DEG)	STRESS (PSI)		
.2400	-2574.	724.	621.	-373.	-999.	840.	.0051	-.0024	-.0004	-.0080	-.0091	-.0224	545.		
.2410	-2796.	841.	733.	-437.	-1191.	1020.	.0055	-.0027	-.0006	-.0095	-.0091	-.0251	653.		
.2420	-2969.	934.	794.	-478.	-1339.	1145.	.0058	-.0030	-.0007	-.0106	-.0091	-.0271	733.		
.2430	-3090.	983.	817.	-496.	-1440.	1208.	.0060	-.0031	-.0008	-.0112	-.0090	-.0282	780.		
.2440	-3146.	978.	818.	-487.	-1490.	1208.	.0061	-.0031	-.0008	-.0114	-.0087	-.0283	794.		
.2450	-3138.	927.	792.	-452.	-1493.	1149.	.0059	-.0030	-.0008	-.0113	-.0083	-.0275	777.		
.2460	-3090.	855.	730.	-389.	-1452.	1036.	.0058	-.0029	-.0007	-.0110	-.0079	-.0260	733.		
.2470	-3028.	787.	620.	-303.	-1376.	880.	.0055	-.0027	-.0006	-.0105	-.0077	-.0242	667.		
.2480	-2953.	712.	487.	-201.	-1276.	691.	.0053	-.0025	-.0005	-.0100	-.0075	-.0222	588.		
.2490	-2844.	596.	378.	-89.	-1165.	481.	.0049	-.0022	-.0005	-.0094	-.0070	-.0196	507.		
.2500	-2694.	449.	290.	27.	-1051.	264.	.0045	-.0020	-.0004	-.0087	-.0061	-.0165	435.		
.2510	-2531.	317.	184.	141.	-943.	58.	.0040	-.0017	-.0003	-.0081	-.0052	-.0136	383.		
.2520	-2382.	227.	52.	250.	-853.	-125.	.0036	-.0014	-.0002	-.0076	-.0045	-.0110	360.		
.2530	-2251.	167.	-71.	352.	-792.	-277.	.0032	-.0012	-.0002	-.0074	-.0036	-.0088	365.		
.2540	-2130.	127.	-149.	442.	-770.	-389.	.0029	-.0011	-.0003	-.0076	-.0025	-.0070	389.		
.2550	-2029.	110.	-174.	515.	-794.	-455.	.0026	-.0011	-.0004	-.0084	-.0010	-.0056	421.		
.2560	-1988.	142.	-174.	568.	-868.	-470.	.0024	-.0012	-.0005	-.0096	.0004	-.0050	457.		
.2570	-2083.	268.	-203.	599.	-997.	-437.	.0025	-.0014	-.0007	-.0111	.0010	-.0058	499.		
.2580	-2352.	434.	-215.	606.	-1188.	-367.	.0029	-.0016	-.0009	-.0130	.0010	-.0079	555.		
.2590	-2778.	553.	-117.	590.	-1445.	-272.	.0036	-.0022	-.0011	-.0151	.0010	-.0107	636.		
.2600	-3344.	641.	76.	555.	-1759.	-157.	.0044	-.0027	-.0013	-.0175	.0009	-.0142	743.		
.2610	-4060.	782.	277.	506.	-2119.	-18.	.0055	-.0033	-.0015	-.0203	.0001	-.0188	874.		
.2620	-4940.	992.	463.	444.	-2517.	134.	.0070	-.0040	-.0018	-.0234	-.0015	-.0246	1027.		
.2630	-5921.	1198.	690.	373.	-2946.	289.	.0086	-.0048	-.0020	-.0266	-.0033	-.0310	1197.		
.2640	-6836.	1300.	1026.	294.	-3386.	443.	.0100	-.0055	-.0023	-.0298	-.0041	-.0363	1375.		
.2650	-7572.	1303.	1432.	206.	-3813.	598.	.0109	-.0061	-.0026	-.0326	-.0036	-.0402	1551.		
.2660	-8106.	1327.	1757.	114.	-4202.	763.	.0116	-.0066	-.0029	-.0348	-.0025	-.0432	1714.		
.2670	-8401.	1423.	1933.	22.	-4533.	939.	.0119	-.0069	-.0032	-.0365	-.0011	-.0454	1858.		
.2680	-8339.	1480.	2071.	-67.	-4793.	1113.	.0116	-.0070	-.0035	-.0375	.0018	-.0455	1975.		
.2690	-7822.	1414.	2250.	-146.	-4966.	1277.	.0104	-.0069	-.0038	-.0378	.0070	-.0426	2059.		
.2700	-6885.	1307.	2379.	-213.	-5038.	1431.	.0085	-.0065	-.0042	-.0375	.0138	-.0373	2103.		
.2710	-5698.	1292.	2312.	-264.	-5002.	1569.	.0063	-.0060	-.0044	-.0364	.0205	-.0312	2106.		
.2720	-4405.	1324.	2095.	-301.	-4870.	1667.	.0041	-.0054	-.0046	-.0346	.0264	-.0247	2069.		
.2730	-3041.	1237.	1907.	-328.	-4657.	1702.	.0017	-.0046	-.0046	-.0319	.0323	-.0171	1994.		
.2740	-1659.	1015.	1774.	-343.	-4366.	1668.	-.0008	-.0036	-.0046	-.0285	.0380	-.0086	1881.		
.2750	-429.	790.	1577.	-344.	-4005.	1567.	-.0030	-.0026	-.0044	-.0244	.0420	-.0006	1731.		
.2760	431.	654.	1251.	-331.	-3596.	1395.	-.0044	-.0018	-.0040	-.0201	.0428	.0051	1553.		
.2770	849.	540.	893.	-303.	-3163.	1144.	-.0048	-.0011	-.0034	-.0156	.0407	.0085	1355.		

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2 SAFETY COLD FKW24F--2 PSV

CONDITION 24
LOADS
SHOCK
PRESSURE
ENGLISH UNITS

INTERNAL FORCES IN THE PIPING
FORCES AND MOMENTS ACT ON THE PIPING

.2670	-8401.	1423.	2071.	-67.	-4793.	1113.	.0116	-.0070	-.0035	-.0375	.0018	-.0455	1975.
.2680	-8339.	1420.	2071.	-146.	-4966.	1277.	.0104	-.0069	-.0038	-.0378	.0070	-.0426	2059.
.2690	-7322.	1414.	2250.	-213.	-5038.	1431.	.0085	-.0065	-.0042	-.0375	.0138	-.0373	2103.
.2700	-6885.	1307.	2379.	-264.	-5002.	1569.	.0063	-.0060	-.0044	-.0364	.0205	-.0312	2106.
.2710	-5698.	1292.	2312.	-301.	-4870.	1667.	.0041	-.0054	-.0046	-.0346	.0264	-.0247	2069.
.2720	-4405.	1324.	2095.	-328.	-4657.	1702.	.0017	-.0046	-.0046	-.0319	.0323	-.0171	1994.
.2730	-3041.	1237.	1907.	-343.	-4366.	1668.	-.0008	-.0036	-.0046	-.0285	.0380	-.0086	1881.
.2740	-1659.	1015.	1774.	-344.	-4005.	1567.	-.0030	-.0026	-.0044	-.0244	.0420	-.0006	1731.
.2750	-429.	790.	1577.	-331.	-3596.	1395.	-.0044	-.0018	-.0040	-.0201	.0428	.0051	1553.
.2760	431.	654.	1251.	-303.	-3163.	1144.	-.0048	-.0011	-.0034	-.0156	.0407	.0085	1355.
.2770	849.	540.	893.										

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CONDITION 24

LOADS

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ENGLISH UNITS

INTERNAL FORCES IN THE PIPING
FORCES AND MOMENTS ACT ON THE PIPING

SECTION	48	MEMBER	1	SEQUENCE	823	LOCATION	END	TYPE	EL					
TIME	FX	FY	FZ	MX	MY	MZ	DY	DY	DZ	RX	RY	RZ	STRESS	
(SEC)	(LB)	(LB)	(LB)	(FT-LB)	(FT-LB)	(FT-LB)	(IN)	(IN)	(IN)	(DEG)	(DEG)	(DEG)	(PSI)	
.2780	911.	343.	635.	-260.	-2721.	823.	-.0047	-.0005	-.0028	-.0113	.0367	.0107	1146.	
.2790	692.	74.	480.	-207.	-2279.	454.	-.0042	.0000	-.0021	-.0072	.0315	.0119	936.	
.2800	170.	-180.	346.	-149.	-1851.	61.	-.0031	.0004	-.0013	-.0033	.0247	.0114	746.	
.2810	-659.	-342.	158.	-94.	-1453.	-330.	-.0014	.0006	-.0005	.0002	.0158	.0087	599.	
.2820	-1650.	-429.	-70.	-44.	-1091.	-693.	.0008	.0007	.0004	.0034	.0059	.0045	519.	
.2830	-2571.	-526.	-241.	1.	-768.	-1003.	.0027	.0007	.0012	.0061	-.0031	.0005	507.	
.2840	-3283.	-677.	-301.	43.	-491.	-1244.	.0042	.0007	.0018	.0082	-.0101	-.0024	537.	
.2850	-3771.	-800.	-316.	80.	-265.	-1398.	.0053	.0007	.0022	.0096	-.0153	-.0047	572.	
.2860	-4037.	-779.	-405.	113.	-91.	-1447.	.0061	.0006	.0024	.0100	-.0193	-.0070	584.	
.2870	-4015.	-624.	-565.	139.	37.	-1388.	.0064	.0005	.0025	.0098	-.0216	-.0089	560.	
.2880	-3644.	-484.	-662.	155.	111.	-1236.	.0061	.0004	.0024	.0089	-.0211	-.0092	502.	
.2890	-2970.	-440.	-630.	159.	127.	-1012.	.0050	.0004	.0021	.0078	-.0178	-.0077	414.	
.2900	-2137.	-394.	-588.	152.	90.	-728.	.0036	.0005	.0017	.0064	-.0131	-.0055	300.	
.2910	-1288.	-228.	-662.	141.	8.	-396.	.0023	.0005	.0013	.0049	-.0084	-.0039	169.	
.2920	-497.	2.	-779.	131.	-120.	-44.	.0011	.0004	.0009	.0029	-.0038	-.0030	74.	
.2930	205.	145.	-771.	124.	-300.	296.	-.0001	.0003	.0004	.0007	.0013	-.0019	176.	
.2940	751.	185.	-619.	121.	-530.	607.	-.0011	.0001	-.0002	-.0020	.0067	-.0008	327.	
.2950	1036.	245.	-467.	120.	-798.	887.	-.0018	-.0001	-.0006	-.0048	.0109	-.0009	481.	
.2960	1003.	382.	-399.	117.	-1097.	1136.	-.0018	-.0005	-.0010	-.0075	.0132	-.0029	635.	
.2970	700.	508.	-342.	107.	-1426.	1347.	-.0013	-.0009	-.0012	-.0100	.0142	-.0059	788.	
.2980	251.	527.	-204.	92.	-1778.	1523.	-.0007	-.0013	-.0014	-.0121	.0149	-.0090	940.	
.2990	-251.	473.	-5.	71.	-2144.	1679.	-.0000	-.0016	-.0016	-.0140	.0158	-.0119	1093.	
.3000	-768.	448.	164.	48.	-2512.	1835.	.0006	-.0019	-.0018	-.0158	.0165	-.0149	1249.	
.3010	-1249.	504.	267.	22.	-2879.	2008.	.0013	-.0023	-.0019	-.0179	.0171	-.0182	1409.	
.3020	-1577.	601.	346.	-8.	-3239.	2207.	.0018	-.0027	-.0021	-.0200	.0183	-.0210	1573.	
.3030	-1627.	677.	450.	-46.	-3586.	2443.	.0017	-.0029	-.0025	-.0221	.0212	-.0223	1741.	
.3040	-1367.	716.	576.	-94.	-3915.	2719.	.0010	-.0031	-.0029	-.0239	.0259	-.0221	1913.	
.3050	-857.	767.	665.	-156.	-4225.	3034.	-.0001	-.0031	-.0033	-.0255	.0316	-.0207	2088.	
.3060	-166.	886.	667.	-227.	-4513.	3382.	-.0014	-.0031	-.0037	-.0269	.0378	-.0190	2265.	
.3070	671.	1055.	620.	-302.	-4778.	3752.	-.0029	-.0030	-.0042	-.0282	.0444	-.0168	2441.	
.3080	1611.	1201.	621.	-377.	-5020.	4118.	-.0046	-.0029	-.0047	-.0296	.0517	-.0140	2610.	
.3090	2549.	1214.	706.	-447.	-5243.	4457.	-.0064	-.0029	-.0053	-.0312	.0591	-.0107	2767.	
.3100	3343.	1395.	801.	-510.	-5443.	4751.	-.0079	-.0029	-.0058	-.0328	.0555	-.0080	2907.	
.3110	3882.	1548.	836.	-565.	-5612.	4984.	-.0089	-.0029	-.0062	-.0343	.0699	-.0066	3020.	
.3120	4128.	1693.	852.	-610.	-5748.	5133.	-.0093	-.0030	-.0065	-.0354	.0723	-.0064	3102.	
.3130	4086.	1734.	938.	-644.	-5848.	5181.	-.0093	-.0032	-.0066	-.0361	.0732	-.0067	3146.	
.3140	3761.	1677.	1089.	-664.	-5907.	5120.	-.0089	-.0033	-.0066	-.0364	.0725	-.0074	3148.	
.3150	3155.	1614.	1216.	-664.	-5911.	4959.	-.0080	-.0034	-.0065	-.0363	.0697	-.0092	3108.	

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DIS/ADLPIPE

ADLPIPE STRESS ANALYSIS

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S/RV PIPING KEWAUNEE GKW08F 2 RUP DISK
2 SAFETY COLD FKW24F--2 PSV

CONDITION 24

LOADS

SHOCK

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ENGLISH UNITS

INTERNAL FORCES IN THE PIPING
FORCES AND MOMENTS ACT ON THE PIPING

.3050	-1307.	716.	665.	-156.	-4225.	2034.	-.0010	-.0031	-.0029	-.0255	.0316	-.0207	1913.
.3060	-166.	886.	667.	-227.	-4513.	3382.	-.0014	-.0031	-.0037	-.0269	.0378	-.0190	2265.
.3070	671.	1055.	620.	-302.	-4778.	3752.	-.0029	-.0030	-.0042	-.0282	.0444	-.0168	2441.
.3080	1611.	1201.	621.	-377.	-5020.	4118.	-.0046	-.0029	-.0047	-.0296	.0517	-.0140	2610.
.3090	2549.	1294.	706.	-447.	-5243.	4457.	-.0064	-.0029	-.0053	-.0312	.0591	-.0107	2767.
.3100	3343.	1395.	801.	-510.	-5443.	4751.	-.0079	-.0029	-.0058	-.0328	.0655	-.0080	2907.
.3110	3882.	1548.	836.	-565.	-5612.	4984.	-.0089	-.0029	-.0062	-.0343	.0699	-.0066	3020.
.3120	4128.	1693.	852.	-610.	-5748.	5133.	-.0093	-.0030	-.0065	-.0354	.0723	-.0064	3102.
.3130	4086.	1734.	938.	-644.	-5848.	5181.	-.0093	-.0032	-.0066	-.0361	.0732	-.0067	3146.
.3140	3761.	1677.	1089.	-664.	-5907.	5120.	-.0089	-.0033	-.0066	-.0364	.0725	-.0074	3148.
.3150	3155.	1614.	1216.	-664.	-5911.	4959.	-.0080	-.0034	-.0065	-.0363	.0697	-.0092	3108.

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DIS/ADLPIPE

ADLPIPE STRESS ANALYSIS

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S/RV PIPING KEWAUNEE GKWOBF 2 RUP DISK
2 SAFETY COLD FKW24F--2 PSV

CONDITION 24
LOADS
SHOCK
PRESSURE
ENGLISH UNITS

INTERNAL FORCES IN THE PIPING
FORCES AND MOMENTS ACT ON THE PIPING

SECTION	48	MEMBER	1	SEQUENCE	823	LOCATION	END	TYPE	EL						
TIME	FX	FY	FZ	MX	MY	MZ	PX	DY	DZ	RX	RY	RZ	STRESS		
(SEC)	(LB)	(LB)	(LB)	(FT-LB)	(FT-LB)	(FT-LB)	(IN)	(IN)	(IN)	(DEG)	(DEG)	(DEG)	(PSI)		
.3160	2312.	1586.	1277.	-642.	-5851.	4704.	-.0065	-.0037	-.0062	-.0361	.0648	-.0120	3024.		
.3170	1342.	1533.	1326.	-598.	-5724.	4362.	-.0049	-.0039	-.0059	-.0355	.0587	-.0149	2898.		
.3180	378.	1395.	1403.	-535.	-5525.	3943.	-.0033	-.0040	-.0055	-.0344	.0524	-.0170	2732.		
.3190	-487.	1195.	1466.	-456.	-5246.	3468.	-.0018	-.0040	-.0050	-.0328	.0460	-.0180	2530.		
.3200	-1213.	994.	1440.	-366.	-4887.	2959.	-.0006	-.0038	-.0045	-.0304	.0396	-.0183	2297.		
.3210	-1759.	810.	1314.	-270.	-4453.	2433.	.0004	-.0035	-.0038	-.0273	.0332	-.0177	2039.		
.3220	-2067.	617.	1134.	-168.	-3952.	1904.	.0010	-.0031	-.0032	-.0237	.0275	-.0159	1761.		
.3230	-2107.	397.	938.	-63.	-3393.	1383.	.0012	-.0025	-.0026	-.0198	.0229	-.0127	1470.		
.3240	-1919.	166.	727.	45.	-2791.	881.	.0009	-.0019	-.0020	-.0157	.0191	-.0084	1174.		
.3250	-1597.	-40.	479.	151.	-2164.	405.	.0005	-.0012	-.0015	-.0115	.0157	-.0038	885.		
.3260	-1226.	-208.	188.	252.	-1531.	-41.	.0001	-.0005	-.0009	-.0073	.0122	-.0007	623.		
.3270	-859.	-352.	-120.	342.	-909.	-451.	-.0002	.0002	-.0003	-.0031	.0085	.0046	430.		
.3280	-553.	-499.	-403.	416.	-320.	-824.	-.0005	.0008	.0003	.0011	.0046	.0080	392.		
.3290	-388.	-651.	-634.	473.	217.	-1159.	-.0005	.0013	.0009	.0050	.0004	.0104	510.		
.3300	-434.	-775.	-827.	510.	684.	-1450.	-.0001	.0017	.0014	.0084	-.0046	.0112	675.		
.3310	-701.	-840.	-997.	530.	1072.	-1689.	.0007	.0019	.0020	.0113	-.0104	.0103	831.		
.3320	-1155.	-856.	-1126.	532.	1374.	-1869.	.0019	.0020	.0025	.0134	-.0167	.0078	955.		
.3330	-1747.	-854.	-1180.	515.	1583.	-1984.	.0033	.0019	.0030	.0148	-.0229	.0041	1039.		
.3340	-2423.	-838.	-1159.	479.	1696.	-2028.	.0048	.0016	.0033	.0155	-.0288	-.0003	1078.		
.3350	-3125.	-778.	-1105.	423.	1719.	-1992.	.0063	.0013	.0036	.0156	-.0340	-.0055	1069.		
.3360	-3771.	-657.	-1043.	349.	1658.	-1868.	.0077	.0009	.0037	.0150	-.0384	-.0110	1012.		
.3370	-4276.	-503.	-955.	257.	1522.	-1657.	.0089	.0004	.0038	.0139	-.0414	-.0163	909.		
.3380	-4576.	-339.	-824.	153.	1319.	-1366.	.0096	-.0001	.0036	.0123	-.0424	-.0208	765.		
.3390	-4643.	-156.	-669.	41.	1062.	-1002.	.0099	-.0005	.0033	.0102	-.0415	-.0243	586.		
.3400	-4476.	61.	-521.	-75.	765.	-577.	.0097	-.0009	.0029	.0076	-.0389	-.0270	386.		
.3410	-4101.	306.	-386.	-190.	439.	-109.	.0092	-.0013	.0024	.0048	-.0348	-.0287	197.		
.3420	-3560.	549.	-250.	-303.	95.	378.	.0083	-.0017	.0017	.0018	-.0294	-.0294	198.		
.3430	-2909.	765.	-99.	-409.	-257.	860.	.0071	-.0019	.0011	-.0012	-.0231	-.0293	396.		
.3440	-2221.	948.	57.	-507.	-606.	1315.	.0059	-.0022	.0004	-.0040	-.0163	-.0285	616.		
.3450	-1591.	1114.	195.	-593.	-940.	1720.	.0046	-.0024	-.0002	-.0066	-.0099	-.0276	822.		
.3460	-1100.	1260.	312.	-662.	-1251.	2056.	.0037	-.0025	-.0007	-.0090	-.0044	-.0269	1001.		
.3470	-788.	1361.	431.	-713.	-1531.	2306.	.0030	-.0027	-.0012	-.0110	.0001	-.0265	1147.		
.3480	-663.	1399.	570.	-744.	-1771.	2462.	.0025	-.0029	-.0015	-.0127	.0034	-.0262	1253.		
.3490	-732.	1390.	708.	-756.	-1962.	2524.	.0024	-.0030	-.0018	-.0140	.0054	-.0262	1318.		
.3500	-988.	1358.	817.	-750.	-2096.	2495.	.0027	-.0031	-.0019	-.0148	.0058	-.0267	1342.		
.3510	-1389.	1307.	887.	-728.	-2166.	2387.	.0032	-.0032	-.0018	-.0152	.0048	-.0275	1326.		
.3520	-1856.	1219.	930.	-693.	-2167.	2210.	.0039	-.0033	-.0017	-.0149	.0029	-.0282	1273.		
.3530	-2293.	1082.	961.	-647.	-2094.	1982.	.0045	-.0032	-.0015	-.0141	.0005	-.0284	1186.		

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ADLPIPE STRESS ANALYSIS

83/12/02. 18.29.00.

S/RV PIPING KEWAUNEE GKWOBF 2 RUP DISK
2 SAFETY COLD FKW24F--2 PSV

CONDITION 24
LOADS
SHOCK
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ENGLISH UNITS

INTERNAL FORCES IN THE PIPING
FORCES AND MOMENTS ACT ON THE PIPING

.3430	-2909.	765.	-99.	-409.	-257.	260.	.0071	-.0019	.0011	-.0012	-.0231	-.0293	396.
.3440	-2221.	948.	57.	-507.	-606.	1315.	.0059	-.0022	.0004	-.0040	-.0163	-.0285	616.
.3450	-1591.	1114.	195.	-593.	-940.	1720.	.0046	-.0024	-.0002	-.0066	-.0099	-.0276	822.
.3460	-1100.	1240.	312.	-662.	-1251.	2056.	.0037	-.0025	-.0007	-.0090	-.0044	-.0269	1001.
.3470	-788.	1361.	431.	-713.	-1531.	2306.	.0030	-.0027	-.0012	-.0110	.0001	-.0265	1147.
.3480	-663.	1399.	570.	-744.	-1771.	2462.	.0025	-.0029	-.0015	-.0127	.0034	-.0262	1253.
.3490	-732.	1390.	708.	-756.	-1962.	2524.	.0024	-.0030	-.0018	-.0140	.0054	-.0262	1318.
.3500	-988.	1358.	817.	-750.	-2096.	2495.	.0027	-.0031	-.0019	-.0148	.0058	-.0267	1342.
.3510	-1389.	1307.	887.	-728.	-2166.	2387.	.0032	-.0032	-.0018	-.0152	.0048	-.0275	1326.
.3520	-1856.	1219.	930.	-693.	-2167.	2210.	.0039	-.0033	-.0017	-.0149	.0029	-.0282	1273.
.3530	-2293.	1082.	961.	-647.	-2094.	1982.	.0045	-.0032	-.0015	-.0141	.0005	-.0284	1186.

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ADLPIPE STRESS ANALYSIS

83/12/02.

18.29.00.

S/RV PIPING KEWAUNEE GKW08F 2 RUP DISK
2 SAFETY COLD FKW24F--2 PSV

CONDITION 24

LOADS

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ENGLISH UNITS

INTERNAL FORCES IN THE PIPING
FORCES AND MOMENTS ACT ON THE PIPING

SECTION	48	MEMBER	1	SEQUENCE	823	LOCATION	END	TYPE	EL						
TIME	FX	FY	FZ	MX	MY	MZ	DX	DY	DZ	RX	RY	RZ	STRESS		
(SEC)	(LB)	(LB)	(LB)	(FT-LB)	(FT-LB)	(FT-LB)	(IN)	(IN)	(IN)	(DEG)	(DEG)	(DEG)	(PSI)		
.3540	-2637.	925.	959.	-593.	-1944.	1719.	.0050	-.0031	-.0012	-.0128	-.0021	-.0280	1068.		
.3550	-2856.	793.	882.	-531.	-1712.	1441.	.0054	-.0029	-.0009	-.0110	-.0050	-.0272	923.		
.3560	-2923.	697.	729.	-463.	-1407.	1159.	.0056	-.0026	-.0005	-.0089	-.0080	-.0259	755.		
.3570	-2808.	599.	541.	-393.	-1032.	880.	.0055	-.0022	-.0001	-.0064	-.0107	-.0239	567.		
.3580	-2504.	473.	352.	-324.	-597.	608.	.0052	-.0017	.0003	-.0036	-.0130	-.0209	366.		
.3590	-2052.	339.	145.	-257.	-110.	348.	.0046	-.0012	.0007	-.0005	-.0149	-.0173	179.		
.3600	-1526.	238.	-112.	-193.	421.	101.	.0040	-.0006	.0011	.0029	-.0172	-.0138	190.		
.3610	-1004.	174.	-419.	-133.	980.	-137.	.0035	-.0001	.0015	.0064	-.0201	-.0106	401.		
.3620	-535.	110.	-719.	-78.	1553.	-374.	.0031	.0005	.0020	.0100	-.0235	-.0080	642.		
.3630	-157.	10.	-965.	-27.	2125.	-615.	.0029	.0010	.0026	.0135	-.0273	-.0056	888.		
.3640	83.	-106.	-1169.	18.	2687.	-860.	.0029	.0014	.0031	.0170	-.0318	-.0040	1132.		
.3650	138.	-194.	-1376.	57.	3230.	-1106.	.0033	.0018	.0037	.0203	-.0373	-.0036	1370.		
.3660	-11.	-247.	-1593.	88.	3745.	-1350.	.0041	.0021	.0043	.0235	-.0440	-.0045	1598.		
.3670	-330.	-310.	-1775.	112.	4222.	-1591.	.0051	.0022	.0050	.0266	-.0513	-.0063	1811.		
.3680	-753.	-421.	-1880.	126.	4654.	-1822.	.0063	.0024	.0056	.0295	-.0585	-.0083	2006.		
.3690	-1220.	-552.	-1932.	130.	5039.	-2030.	.0075	.0025	.0062	.0322	-.0654	-.0106	2181.		
.3700	-1689.	-640.	-1992.	124.	5375.	-2196.	.0087	.0026	.0067	.0346	-.0721	-.0133	2330.		
.3710	-2118.	-664.	-2078.	106.	5660.	-2310.	.0098	.0026	.0072	.0366	-.0782	-.0162	2453.		
.3720	-2431.	-671.	-2143.	77.	5889.	-2366.	.0108	.0026	.0076	.0382	-.0832	-.0187	2547.		
.3730	-2547.	-712.	-2138.	35.	6061.	-2359.	.0112	.0026	.0079	.0395	-.0862	-.0202	2610.		
.3740	-2443.	-759.	-2098.	-19.	6177.	-2283.	.0112	.0027	.0080	.0405	-.0873	-.0208	2643.		
.3750	-2157.	-748.	-2089.	-85.	6238.	-2132.	.0110	.0028	.0080	.0411	-.0870	-.0208	2646.		
.3760	-1738.	-659.	-2123.	-161.	6241.	-1914.	.0104	.0028	.0079	.0414	-.0857	-.0208	2620.		
.3770	-1202.	-548.	-2135.	-246.	6184.	-1640.	.0097	.0028	.0077	.0411	-.0831	-.0204	2569.		
.3780	-540.	-487.	-2050.	-376.	6066.	-1325.	.0086	.0029	.0074	.0404	-.0788	-.0190	2495.		
.3790	210.	-467.	-1885.	-432.	5893.	-970.	.0072	.0029	.0070	.0394	-.0731	-.0170	2403.		
.3800	966.	-412.	-1729.	-529.	5672.	-606.	.0058	.0029	.0065	.0379	-.0569	-.0151	2299.		
.3810	1639.	-257.	-1657.	-624.	5412.	-221.	.0046	.0028	.0060	.0362	-.0613	-.0140	2188.		
.3820	2209.	-69.	-1599.	-712.	5116.	157.	.0036	.0027	.0055	.0342	-.0558	-.0135	2074.		
.3830	2710.	42.	-1441.	-792.	4786.	506.	.0025	.0025	.0049	.0319	-.0500	-.0126	1957.		
.3840	3132.	90.	-1203.	-861.	4432.	820.	.0015	.0023	.0043	.0294	-.0438	-.0115	1841.		
.3850	3418.	171.	-993.	-918.	4065.	1094.	.0007	.0021	.0038	.0267	-.0383	-.0109	1729.		
.3860	3529.	318.	-856.	-959.	3694.	1320.	.0003	.0018	.0033	.0239	-.0339	-.0111	1621.		
.3870	3515.	449.	-720.	-982.	3326.	1486.	-.0000	.0015	.0028	.0211	-.0300	-.0115	1514.		
.3880	3474.	475.	-505.	-986.	2969.	1584.	-.0004	.0012	.0023	.0184	-.0257	-.0109	1407.		
.3890	3455.	422.	-249.	-967.	2638.	1617.	-.0009	.0010	.0018	.0159	-.0210	-.0094	1301.		
.3900	3441.	388.	-52.	-926.	2343.	1592.	-.0014	.0009	.0014	.0135	-.0166	-.0075	1196.		
.3910	3427.	409.	48.	-861.	2092.	1511.	-.0019	.0007	.0010	.0113	-.0127	-.0055	1092.		

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ADLPIPE STRESS ANALYSIS

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S/RV PIPING KEWAUNEE GKW08F 2 RUP DISK
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CONDITION 24

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