

50-305

RESPONSE TO NUREG-0737 ITEM II.D.1

Docket # *50-305*

Control # *8403280048*

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





.3770	-.1298E+01	-.2388E+01	.7938E-01	-.2680E+00	.6994E-01	.2072E-01	-.1694E+00	-.3120E+00	-.4564E-01	-.1147E-03
.3800	-.1408E+00	-.2590E+00	.7938E-01	-.2680E+00	.6994E-01	.2072E-01	-.1694E+00	-.3120E+00	-.4564E-01	-.1147E-03
.3810	.1012E+01	.1861E+01	.1017E+00	-.3433E+00	.4113E-01	.1218E-01	-.1508E+01	-.2777E+01	-.9089E-01	-.2692E-01
.3820	-.1298E+01	-.2388E+01	.6220E-01	-.2100E+00	.3365E-01	.9968E-02	.1141E+01	.2100E+01	-.1678E+00	-.4970E-01
.3830	.1012E+01	.1861E+01	.1071E+00	-.3615E+00	.4458E-01	.1321E-01	-.1637E+01	-.3014E+01	.5887E-02	.1744E-02
.3840	-.1298E+01	-.2388E+01	.7938E-01	-.2694E+00	.5609E-01	.1661E-01	-.1222E+01	.2250E+01	-.2896E+00	-.8577E-01
.3850	-.1455E+00	-.2677E+00	.6972E-01	-.2354E+00	.7742E-01	.2293E-01	-.1479E+00	-.2724E+00	-.1844E+00	-.5461E-01
.3860	.1007E+01	.1852E+01	.5964E-01	-.2013E+00	.9876E-01	.2925E-01	-.1517E+01	-.2795E+01	-.7920E-01	-.2346E-01
.3870	-.1298E+01	-.2388E+01	.1108E+00	-.3739E+00	.4132E-01	.1224E-01	.1040E+01	.1916E+01	.5590E-01	.1656E-01
.3880	.1002E+01	.1847E+01	.8690E-01	-.2934E+00	.4708E-01	.1394E-01	-.1532E+01	-.2821E+01	-.1725E+00	-.5112E-01
.3890	-.1298E+01	-.2388E+01	.1059E+00	-.3576E+00	.5043E-01	.1494E-01	.1141E+01	.2100E+01	-.2608E-01	-.7725E-02
.3900	-.1432E+00	-.2633E+00	.9628E-01	-.3250E+00	.5834E-01	.1728E-01	-.2481E+00	-.4570E+00	-.1655E+00	-.4902E-01
.3910	.1012E+01	.1861E+01	.8662E-01	-.2924E+00	.6625E-01	.1962E-01	-.1637E+01	-.3014E+01	-.3049E+00	-.9031E-01
.3920	-.1303E+01	-.2396E+01	.9031E-01	-.3049E+00	.4967E-01	.1471E-01	.1203E+01	.2215E+01	-.2052E+00	-.6078E-01
.3930	.1007E+01	.1852E+01	.9230E-01	-.3116E+00	.9233E-01	.2735E-01	-.1613E+01	-.2970E+01	-.2416E-01	-.7157E-02
.3940	-.1303E+01	-.2396E+01	.8321E-01	-.2809E+00	.3413E-01	.1011E-01	.1141E+01	.2100E+01	-.1237E+00	-.3664E-01

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DIS/ADLPIPE

ADLPIPE STRESS ANALYSIS

8/31/2/02. 17.46.55.

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

CONDITION 24  
LOADS  
SHOCK  
PRESSURE

FORCING FUNCTIONS AT NETWORK POINTS

(TIME IN SECS, FORCE (X,Y,Z DOFS) IN LBS , MOMENT (RX,RY,RZ DOFS) IN IN-LBS)

TIME	806 X	806 Z	841 X	841 Z	843 X	843 Z	807 X	807 Z	852 X	852 Z
.3950	-.1479E+00	-.2721E+00	.8776E-01	-.2963E+00	.3509E-01	.1039E-01	-.2219E+00	-.4086E+00	-.1175E+00	-.3479E-01
.3960	.1007E+01	.1852E+01	.9230E-01	-.3116E+00	.3605E-01	.1068E-01	-.1584E+01	-.2918E+01	-.1112E+00	-.3294E-01
.3970	-.1298E+01	-.2388E+01	.9713E-01	-.3279E+00	.1400E-01	.4146E-02	.1226E+01	.2259E+01	-.2972E+00	-.8804E-01
.3980	.1012E+01	.1861E+01	.9173E-01	-.3097E+00	.4631E-01	.1372E-01	-.1613E+01	-.2970E+01	-.1515E+00	-.4487E-01
.3990	-.1298E+01	-.2388E+01	.1014E+00	-.3423E+00	.6021E-01	.1784E-01	.1117E+01	.2056E+01	-.1026E+00	-.3039E-01
.4000	-.1455E+00	-.2677E+00	.8548E-01	-.2886E+00	.6678E-01	.1978E-01	-.2076E+00	-.3823E+00	-.1395E+00	-.4132E-01

ADLPIPE PAGE 66

DIS/ADLPIPE

ADLPIPE STRESS ANALYSIS

8/31/2/02. 17.46.55.

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

CONDITION 24  
LOADS  
SHOCK  
PRESSURE

FORCING FUNCTIONS AT NETWORK POINTS

(TIME IN SECS, FORCE (X,Y,Z DOFS) IN LBS , MOMENT (RX,RY,RZ DOFS) IN IN-LBS)

TIME	806 X	806 Z	841 X	841 Z	843 X	843 Z	807 X	807 Z	852 X	852 Z
.3950	-.1479E+00	-.2721E+00	.8776E-01	-.2963E+00	.3509E-01	.1039E-01	-.2219E+00	-.4086E+00	-.1175E+00	-.3479E-01
.3960	.1007E+01	.1852E+01	.9230E-01	-.3116E+00	.3605E-01	.1068E-01	-.1584E+01	-.2918E+01	-.1112E+00	-.3294E-01
.3970	-.1298E+01	-.2388E+01	.9713E-01	-.3279E+00	.1400E-01	.4146E-02	.1226E+01	.2259E+01	-.2972E+00	-.8804E-01
.3980	.1012E+01	.1861E+01	.9173E-01	-.3097E+00	.4631E-01	.1372E-01	-.1613E+01	-.2970E+01	-.1515E+00	-.4487E-01
.3990	-.1298E+01	-.2388E+01	.1014E+00	-.3423E+00	.6021E-01	.1784E-01	.1117E+01	.2056E+01	-.1026E+00	-.3039E-01
.4000	-.1455E+00	-.2677E+00	.8548E-01	-.2886E+00	.6678E-01	.1978E-01	-.2076E+00	-.3823E+00	-.1395E+00	-.4132E-01

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

CONDITION 24

LOADS  
SHOCK  
PRESSURE

FORCING FUNCTIONS AT NETWORK POINTS

(TIME IN SECS, FORCE (X,Y,Z DOFS) IN LBS, MOMENT (RX,RY,RZ DOFS) IN IN-LBS)

TIME	52 X	52 Z	55 X	55 Z	161 Y	265 X	265 Z	66 X	66 Z	67 X
0.0000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
.0010	.8456E+02	-.4592E+02	-.1866E+01	-.3437E+01	.4356E+00	.1688E-01	-.6924E-02	-.4157E+01	.4149E+00	-.6599E+00
.0020	.1691E+03	-.9183E+02	-.3733E+01	-.6874E+01	.8711E+00	.3376E-01	-.1385E-01	-.8315E+01	.8297E+00	-.1320E+01
.0030	.2537E+03	-.1378E+03	-.5599E+01	-.1031E+02	.1307E+01	.5064E-01	-.2077E-01	-.1247E+02	.1245E+01	-.1980E+01
.0040	.3382E+03	-.1837E+03	-.7466E+01	-.1375E+02	.1742E+01	.6752E-01	-.2770E-01	-.1663E+02	.1659E+01	-.2640E+01
.0050	.3573E+03	-.1940E+03	-.5069E+01	-.9335E+01	.2436E+01	.7174E-01	-.2943E-01	-.2145E+02	.2141E+01	-.2540E+01
.0060	.5006E+03	-.2718E+03	.6204E-01	.1142E+00	.4580E+01	.4589E-02	-.1882E-02	-.2013E+02	.2009E+01	-.1446E+01
.0070	.1213E+04	-.6585E+03	.6060E+00	.1116E+01	.1030E+02	-.2387E+00	.9791E-01	.1622E+01	-.1619E+00	.3510E+00
.0080	.2042E+04	-.1109E+04	-.4384E+01	-.8073E+01	.1726E+02	-.1713E+01	.7027E+00	.2628E+02	-.2622E+01	.1789E+01
.0090	.2766E+04	-.1502E+04	-.3564E+01	-.6563E+01	.1432E+02	-.5324E+01	.2184E+01	.3035E+02	-.3029E+01	.1407E+01
.0100	.3389E+04	-.1840E+04	.7731E+00	.1424E+01	.7742E+01	-.1007E+02	.4131E+01	.2469E+02	-.2463E+01	.4917E+00
.0110	.3915E+04	-.2126E+04	.5080E+01	.9356E+01	.3662E+01	-.1277E+02	.5240E+01	.1735E+02	-.1732E+01	-.2063E-01
.0120	.4368E+04	-.2372E+04	.5631E+01	.1037E+02	.6200E+01	-.9715E+01	.3985E+01	.1284E+02	-.1281E+01	.2359E+00
.0130	.4558E+04	-.2475E+04	.6148E+01	.1132E+02	.7058E+01	.3793E+01	-.1556E+01	-.1824E+01	.1821E+00	.3271E+00
.0140	.4039E+04	-.2193E+04	.6516E+01	.1200E+02	.7359E+01	.1406E+02	-.5765E+01	-.1353E+02	.1350E+01	.2987E+00
.0150	.2552E+04	-.1386E+04	.7914E+01	.1457E+02	.9048E+01	.1755E+02	-.7198E+01	-.1772E+02	.1768E+01	.2617E+00
.0160	.4124E+03	-.2239E+03	.1119E+02	.2061E+02	.1211E+02	.1360E+02	-.5580E+01	-.1399E+02	.1396E+01	.2164E+00
.0170	-.1406E+04	.7635E+03	.1637E+02	.3014E+02	.1480E+02	.6208E+01	-.2546E+01	-.7543E+01	.7527E+00	.1025E+00
.0180	-.2130E+04	.1156E+04	.4036E+02	.7432E+02	.1857E+02	.1934E+01	-.7932E+00	-.4375E+01	.4366E+00	-.1389E-01
.0190	.2975E+04	-.1615E+04	.8168E+02	.1504E+03	.2033E+02	.1833E+01	-.7520E+00	-.3917E+01	.3909E+00	-.2015E-01
.0200	.1258E+05	-.6833E+04	.1998E+03	.3679E+03	.2333E+02	.1556E+01	-.6382E+00	-.2353E+01	.3346E+00	-.2594E-01
.0210	.1072E+05	-.5822E+04	.4647E+03	.8557E+03	.2636E+02	.7711E+00	-.3163E+00	-.2402E+01	.2397E+00	-.2253E-01
.0220	.1227E+05	-.6665E+04	.9719E+03	.1790E+04	.3132E+02	-.5909E-01	.2424E-01	-.1322E+01	.1320E+00	-.5090E-03
.0230	.8235E+04	-.4472E+04	.1977E+04	.3641E+04	.3540E+02	-.8271E+00	.3393E+00	-.1244E+00	.1242E-01	.8339E-02
.0240	.4844E+04	-.2630E+04	.3431E+04	.6319E+04	.4840E+02	-.1734E+01	.7112E+00	.9661E+00	-.9640E-01	.2133E-02
.0250	.8696E+04	-.4722E+04	.4704E+04	.8664E+04	.5793E+02	-.1833E+01	.7520E+00	.1315E+01	-.1312E+00	-.6394E-02
.0260	.2302E+04	-.1250E+04	.5520E+04	.1016E+05	.7135E+02	-.1494E+01	.6129E+00	.1075E+01	-.1072E+00	-.2051E-01
.0270	-.7538E+03	.4093E+03	.5720E+04	.1053E+05	.8926E+02	-.1323E+01	.5427E+00	.8875E+00	-.8856E-01	-.3952E-01
.0280	-.3682E+04	.1999E+04	.5917E+04	.1090E+05	.1120E+03	-.1184E+01	.4858E+00	.8090E+00	-.8073E-01	-.5019E-01
.0290	-.5197E+04	.2822E+04	.5822E+04	.1072E+05	.1250E+03	-.9141E+00	.3749E+00	.7735E+00	-.7719E-01	-.4079E-01
.0300	-.1365E+05	.7414E+04	.5317E+04	.9791E+04	.1230E+03	-.6098E+00	.2501E+00	.7994E+00	-.7978E-01	-.2992E-01
.0310	-.1286E+05	.6985E+04	.4356E+04	.8023E+04	.1138E+03	-.1731E+00	.7100E-01	.8213E+00	-.8196E-01	-.9526E-02
.0320	-.1151E+05	.6251E+04	.4037E+04	.7435E+04	.1300E+03	.2924E+00	-.1199E+00	.1025E+01	-.1023E+00	.1137E-01
.0330	-.9755E+04	.5297E+04	.3186E+04	.5867E+04	.1375E+03	.1460E+01	-.5987E+00	.1100E+01	-.1097E+00	.3021E-01
.0340	-.7391E+04	.4014E+04	.2220E+04	.4088E+04	.1427E+03	.2986E+01	-.1225E+01	.1102E+01	-.1100E+00	.2689E-01
.0350	-.4545E+04	.2468E+04	.1147E+04	.2113E+04	.1479E+03	.4618E+01	-.1894E+01	.1037E+01	-.1035E+00	.2416E-01
.0360	-.1260E+04	.6843E+03	-.4390E+02	-.8085E+02	.1613E+03	.6156E+01	-.2525E+01	.9128E+00	-.9109E-01	.2656E-01
.0370	-.3429E+04	.1862E+04	-.2925E+03	-.5386E+03	.1689E+03	.5654E+01	-.2319E+01	.6775E+00	-.6761E-01	.2269E-01
.0380	-.1415E+05	.7683E+04	.1016E+04	.1872E+04	.1410E+03	.2489E+01	-.1021E+01	.3115E+00	-.3108E-01	.1292E-01
.0390	-.7250E+03	.3937E+03	-.3632E+04	-.6689E+04	.1743E+03	-.6183E+00	.2536E+00	.2634E+00	-.2628E-01	.4504E-02
.0400	.4827E+04	-.2621E+04	-.3680E+04	-.6777E+04	.2210E+03	-.6429E+01	.2637E+01	.1184E+00	-.1182E-01	-.2788E-02
.0410	.3304E+04	-.1794E+04	-.8399E+04	-.1547E+05	.1830E+03	-.7540E+01	.3093E+01	.4966E-02	-.4955E-03	.6072E-02
.0420	.6523E+04	-.3542E+04	.1727E+04	.3180E+04	.2338E+03	-.9362E+01	.3840E+01	.2925E-01	-.2919E-02	.1008E-01

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

CONDITION 24

LOADS  
SHOCK  
PRESSURE

FORCING FUNCTIONS AT NETWORK POINTS

(TIME IN SECS, FORCE (X,Y,Z DOFS) IN LBS, MOMENT (RX,RY,RZ DOFS) IN IN-LBS)



















.3800	.2457E+00	-.1606E+00	-.2295E+01	-.4227E+01	-.2305E+04	-.5028E+04	.2063E+04	.1282E+04	-.1279E+03	-.1825E+03
.3810	.3278E+00	-.1780E+00	-.2281E+01	-.4201E+01	-.2070E+04	-.5098E+04	.2091E+04	.9623E+03	-.9602E+02	-.1994E+03
.3820	.7848E-01	-.4261E-01	-.2442E+01	-.4508E+01	-.1890E+04	-.4978E+04	.2042E+04	.3234E+03	-.3227E+02	-.2183E+03
.3830	.9227E+00	-.5011E+00	-.2314E+01	-.4262E+01	-.1840E+04	-.4737E+04	.1947E+04	-.2985E+03	.2979E+02	-.2373E+03
.3840	-.2858E+00	.1551E+00	-.2062E+01	-.3796E+01	-.1790E+04	-.4515E+04	.1852E+04	-.8876E+03	.8858E+02	-.2534E+03
.3850	-.1145E+00	.6218E-01	-.2107E+01	-.3180E+01	-.1745E+04	-.4413E+04	.1810E+04	-.1160E+04	.1158E+03	-.2604E+03
.3860	.5859E-01	-.3073E-01	-.2152E+01	-.3963E+01	-.1740E+04	-.4311E+04	.1768E+04	-.1433E+04	.1430E+03	-.2675E+03
.3870	.1222E+01	-.6633E+00	-.1637E+01	-.3014E+01	-.1680E+04	-.4136E+04	.1696E+04	-.1930E+04	.1926E+03	-.2780E+03
.3880	.1854E+00	-.1007E+00	-.1412E+01	-.2601E+01	-.1600E+04	-.3978E+04	.1632E+04	-.2378E+04	.2373E+03	-.2857E+03
.3890	.1011E+01	-.5488E+00	-.1136E+01	-.2092E+01	-.1530E+04	-.3849E+04	.1579E+04	-.2766E+04	.2761E+03	-.2906E+03
.3900	.5412E+00	-.2939E+00	-.9258E+00	-.1705E+01	-.1485E+04	-.3793E+04	.1556E+04	-.2926E+04	.2919E+03	-.2913E+03
.3910	.7171E-01	-.3894E-01	-.7158E+00	-.1318E+01	-.1440E+04	-.3738E+04	.1533E+04	-.3085E+04	.3078E+03	-.2920E+03
.3920	-.1837E+00	.9973E-01	-.5679E+00	-.1046E+01	-.1360E+04	-.3655E+04	.1499E+04	-.2363E+04	.2356E+03	-.2906E+03
.3930	.5877E+00	-.3083E+00	.1169E-01	.2153E-01	-.1270E+04	-.3581E+04	.1469E+04	-.3572E+04	.3565E+03	-.2857E+03
.3940	.4631E+00	-.2515E+00	.3698E+00	.6811E+00	-.1170E+04	-.3534E+04	.1450E+04	-.3732E+04	.3724E+03	-.2780E+03

ADLPIPE PAGE 75 DIS/ADLPIPE ADLPIPE STRESS ANALYSIS 83/12/02. 17.46.58.  
 S/RV PIPING KEWAUNEE GKW08F 2 RUP DISK  
 2 SAFETY COLD FKW24F--2 PSV  
 CONDITION 24  
 LOADS  
 SHOCK  
 PRESSURE

FORCING FUNCTIONS AT NETWORK POINTS

TIME	(TIME IN SECS, FORCE (X,Y,Z DOFS) IN LBS, MOMENT (RX,RY,RZ DOFS) IN IN-LBS)										
	52 X	52 Z	55 X	55 Z	161 Y	265 X	265 Z	66 Y	66 Z	67 X	
.3950	.5123E+00	-.2782E+00	.4832E+00	.8898E+00	-.1125E+04	-.3516E+04	.1442E+04	-.3786E+04	.3778E+03	-.2724E+03	
.3960	.5616E+00	-.3049E+00	.5965E+00	.1099E+01	-.1080E+04	-.3497E+04	.1435E+04	-.3841E+04	.3833E+03	-.2668E+03	
.3970	-.5563E-01	.3021E-01	.8828E+00	.1626E+01	-.9960E+03	-.3479E+04	.1427E+04	-.3911E+04	.3902E+03	-.2534E+03	
.3980	.3919E+00	-.2128E+00	.9353E+00	.1722E+01	-.9110E+03	-.3460E+04	.1419E+04	-.3931E+04	.3922E+03	-.2373E+03	
.3990	.6749E+00	-.3665E+00	.1236E+01	.2276E+01	-.8300E+03	-.3460E+04	.1419E+04	-.3911E+04	.3902E+03	-.2169E+03	
.4000	.3756E+00	-.2040E+00	.1219E+01	.2245E+01	-.7920E+03	-.3460E+04	.1419E+04	-.3881E+04	.3873E+03	-.2050E+03	

ADLPIPE PAGE 76 DIS/ADLPIPE ADLPIPE STRESS ANALYSIS 83/12/02. 17.46.58.  
 S/RV PIPING KEWAUNEE GKW08F 2 RUP DISK  
 2 SAFETY COLD FKW24F--2 PSV  
 CONDITION 24  
 LOADS  
 SHOCK  
 PRESSURE

FORCING FUNCTIONS AT NETWORK POINTS

(TIME IN SECS, FORCE (X,Y,Z DOFS) IN LBS, MOMENT (RX,RY,RZ DOFS) IN IN-LBS)

ADLPIPE PAGE 76

DIS/ADLPIPE

ADLPIPE STRESS ANALYSIS

83/12/02. 17.46.58.

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

CONDITION 24  
LOADS  
SHOCK  
PRESSURE

FORCING FUNCTIONS AT NETWORK POINTS

(TIME IN SECS, FORCE (X,Y,Z DOFS) IN LBS , MOMENT (RX,RY,RZ DOFS) IN IN-LBS)

TIME	67 Y	67 Z
0.0000	0.	0.
.0010	.6647E+01	-.6614E+01
.0020	.1329E+02	-.1323E+02
.0030	.1994E+02	-.1984E+02
.0040	.2659E+02	-.2646E+02
.0050	.2558E+02	-.2546E+02
.0060	.1457E+02	-.1449E+02
.0070	-.3536E+01	.3518E+01
.0080	-.1802E+02	.1793E+02
.0090	-.1417E+02	.1410E+02
.0100	-.4953E+01	.4928E+01
.0110	.2078E+00	-.2068E+00
.0120	-.2376E+01	.2364E+01
.0130	-.3295E+01	.3279E+01
.0140	-.3009E+01	.2994E+01
.0150	-.2636E+01	.2623E+01
.0160	-.2180E+01	.2169E+01
.0170	-.1072E+01	.1027E+01
.0180	.1399E+00	-.1392E+00
.0190	.2029E+00	-.2019E+00
.0200	.2613E+00	-.2600E+00
.0210	.2270E+00	-.2259E+00
.0220	.5126E-02	-.5101E-02
.0230	-.8400E-01	.8358E-01
.0240	-.2148E-01	.2138E-01
.0250	.6441E-01	-.6409E-01
.0260	.2066E+00	-.2056E+00
.0270	.3981E+00	-.3961E+00
.0280	.5056E+00	-.5031E+00
.0290	.4108E+00	-.4088E+00
.0300	.3014E+00	-.2999E+00
.0310	.9595E-01	-.9547E-01
.0320	-.1146E+00	.1140E+00
.0330	-.3043E+00	.3028E+00
.0340	-.2709E+00	.2695E+00
.0350	-.2434E+00	.2422E+00
.0360	-.2675E+00	.2662E+00
.0370	-.2286E+00	.2275E+00
.0380	-.1301E+00	.1295E+00
.0390	-.4537E-01	.4515E-01
.0400	.2808E-01	-.2794E-01
.0410	-.6116E-01	.6086E-01
.0420	-.1015E+00	.1010E+00

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DIS/ADLPIPE

ADLPIPE STRESS ANALYSIS

83/12/02. 17.46.58.

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

CONDITION 24  
LOADS  
SHOCK  
PRESSURE

FORCING FUNCTIONS AT NETWORK POINTS

(TIME IN SECS, FORCE (X,Y,Z DOFS) IN LBS , MOMENT (RX,RY,RZ DOFS) IN IN-LBS)

67 67

.0290	.4108E+00	-.4088E+00
.0300	.3014E+00	-.2999E+00
.0310	.9595E-01	-.9547E-01
.0320	-.1146E+00	.1140E+00
.0330	-.3043E+00	.3028E+00
.0340	-.2709E+00	.2695E+00
.0350	-.2434E+00	.2422E+00
.0360	-.2675E+00	.2662E+00
.0370	-.2286E+00	.2275E+00
.0380	-.1301E+00	.1295E+00
.0390	-.4537E-01	.4515E-01
.0400	.2808E-01	-.2794E-01
.0410	-.6116E-01	.6086E-01
.0420	-.1015E+00	.1010E+00

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DIS/ADLPIPE

ADLPIPE STRESS ANALYSIS

83/12/02. 17.46.58.

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

CONDITION 24  
LOADS  
SHOCK  
PRESSURE

FORCING FUNCTIONS AT NETWORK POINTS

(TIME IN SECS, FORCE (X,Y,Z DOFS) IN LBS , MOMENT (RX,RY,RZ DOFS) IN IN-LBS)

TIME	67 Y	67 Z
.0430	-.1428E+00	.1421E+00
.0440	-.2471E+00	.2459E+00
.0450	-.3629E+00	.3611E+00
.0460	-.3897E+00	.3878E+00
.0470	-.3651E+00	.3633E+00
.0480	-.4342E+00	.4320E+00
.0490	-.6439E+00	.6407E+00
.0500	-.9035E+00	.8990E+00
.0510	-.9157E+00	.9112E+00
.0520	-.6587E+00	.6555E+00
.0530	-.3797E+00	.3778E+00
.0540	-.3874E+00	.3855E+00
.0550	-.2536E+00	.2523E+00
.0560	-.1204E+00	.1198E+00
.0570	-.7588E-01	.7550E-01
.0580	-.1541E+00	.1534E+00
.0590	-.2372E+00	.2361E+00
.0600	-.4370E+00	.4349E+00
.0610	-.7372E+00	.7335E+00
.0620	-.1059E+01	.1054E+01
.0630	-.1266E+01	.1259E+01
.0640	-.1283E+01	.1277E+01
.0650	-.1256E+01	.1250E+01
.0660	-.1143E+01	.1137E+01
.0670	-.9093E+00	.9048E+00
.0680	-.5699E+00	.5671E+00
.0690	-.3619E+00	.3601E+00
.0700	-.3151E+00	.3135E+00
.0710	-.4795E+00	.4771E+00
.0720	-.6296E+00	.6265E+00
.0730	-.3479E+00	.3462E+00
.0740	.2556E+00	-.2841E+00
.0750	.3004E+00	-.2989E+00
.0760	.1158E+00	-.1157E+00
.0770	-.3692E-01	.3674E-01
.0780	-.1103E-01	.1098E-01
.0790	.7889E-01	-.7850E-01
.0800	.3619E+00	-.3601E+00
.0810	.8292E+00	-.8251E+00
.0820	.1394E+01	-.1387E+01
.0830	.1867E+01	-.1858E+01
.0840	.2132E+01	-.2121E+01
.0850	.2172E+01	-.2161E+01
.0860	.2011E+01	-.2001E+01

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ADLPIPE STRESS ANALYSIS

83/12/02. 17.46.58.

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

CONDITION 24  
LOADS  
SHOCK  
PRESSURE

FORCING FUNCTIONS AT NETWORK POINTS

(TIME IN SECS, FORCE (X,Y,Z DOFS) IN LBS , MOMENT (RX,RY,RZ DOFS) IN IN-LBS)

67 67



.0720	-.0296E+00	.6265E+00
.0730	-.3479E+00	.3462E+00
.0740	.2856E+00	-.2841E+00
.0750	.3004E+00	-.2989E+00
.0760	.1158E+00	-.1157E+00
.0770	-.3692E-01	.3674E-01
.0780	-.1103E-01	.1098E-01
.0790	.7889E-01	-.7850E-01
.0800	.3619E+00	-.3601E+00
.0810	.8292E+00	-.8251E+00
.0820	.1394E+01	-.1387E+01
.0830	.1867E+01	-.1852E+01
.0840	.2132E+01	-.2121E+01
.0850	.2172E+01	-.2161E+01
.0860	.2011E+01	-.2001E+01

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DIS/ADLPIPE

ADLPIPE STRESS ANALYSIS

83/12/02. 17.46.58.

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

CONDITION 24  
LOADS  
SHOCK  
PRESSURE

FORCING FUNCTIONS AT NETWORK POINTS

(TIME IN SECS, FORCE (X,Y,Z DOFS) IN LBS , MOMENT (RX,RY,RZ DOFS) IN IN-LBS)

TIME	Y	Z
.0870	.1630E+01	-.1622E+01
.0880	.1075E+01	-.1069E+01
.0890	.2354E+00	-.2342E+00
.0900	-.2743E+00	.2729E+00
.0910	-.4293E+00	.4271E+00
.0920	-.1510E+00	.1503E+00
.0930	.5027E+00	-.5003E+00
.0940	.1804E+01	-.1795E+01
.0950	.3453E+01	-.3436E+01
.0960	.6262E+01	-.6231E+01
.0970	.1035E+02	-.1030E+02
.0980	.1492E+02	-.1485E+02
.0990	.1975E+02	-.1965E+02
.1000	.2560E+02	-.2547E+02
.1010	.2786E+02	-.2772E+02
.1020	.3012E+02	-.2997E+02
.1030	.3132E+02	-.3117E+02
.1040	.2800E+02	-.2786E+02
.1050	.2044E+02	-.2033E+02
.1060	.1549E+02	-.1541E+02
.1070	.1054E+02	-.1048E+02
.1080	.1817E+01	-.1808E+01
.1090	-.1365E+01	.1358E+01
.1100	.7637E+00	-.7599E+00
.1110	.8909E+01	-.8865E+01
.1120	.1382E+02	-.1376E+02
.1130	.1874E+02	-.1865E+02
.1140	.2390E+02	-.2378E+02
.1150	.1789E+02	-.1780E+02
.1160	.5975E+01	-.5945E+01
.1170	-.1393E+02	.1386E+02
.1180	-.2418E+02	.2406E+02
.1190	-.3444E+02	.3427E+02
.1200	-.4815E+02	.4792E+02
.1210	-.5247E+02	.5221E+02
.1220	-.4815E+02	.4792E+02
.1230	-.4356E+02	.4334E+02
.1240	-.3896E+02	.3877E+02
.1250	-.2376E+02	.2364E+02
.1260	-.1054E+02	.1048E+02
.1270	.2411E+01	-.2399E+01
.1280	.8913E+01	-.8869E+01
.1290	.1541E+02	-.1534E+02
.1300	.5763E+01	-.5734E+01

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DIS/ADLPIPE

ADLPIPE STRESS ANALYSIS

83/12/02. 17.46.59.

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

CONDITION 24  
LOADS  
SHOCK  
PRESSURE

FORCING FUNCTIONS AT NETWORK POINTS

(TIME IN SECS, FORCE (X,Y,Z DOFS) IN LBS , MOMENT (RX,RY,RZ DOFS) IN IN-LBS)

67 67

.1160	.5975E+01	-.5945E+01
.1170	-.1393E+02	.1386E+02
.1180	-.2418E+02	.2406E+02
.1190	-.3444E+02	.3427E+02
.1200	-.4415E+02	.4392E+02
.1210	-.5247E+02	.5221E+02
.1220	-.4815E+02	.4792E+02
.1230	-.4356E+02	.4334E+02
.1240	-.3896E+02	.3877E+02
.1250	-.2376E+02	.2364E+02
.1260	-.1054E+02	.1048E+02
.1270	.2411E+01	-.2399E+01
.1280	.8913E+01	-.8869E+01
.1290	.1541E+02	-.1534E+02
.1300	.5763E+01	-.5734E+01

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DIS/ADLPIPE

ADLPIPE STRESS ANALYSIS

83/12/02. 17.46.59.

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

CONDITION 24  
LOADS  
SHOCK  
PRESSURE

FORCING FUNCTIONS AT NETWORK POINTS

(TIME IN SECS, FORCE (X,Y,Z DOFS) IN LBS , MOMENT (RX,RY,RZ DOFS) IN IN-LBS)

TIME	67 Y	67 Z
.1310	-.4837E+01	.4813E+01
.1320	-.3387E+01	.3370E+01
.1330	-.2528E+01	.2515E+01
.1340	-.1669E+01	.1660E+01
.1350	.2143E+01	-.2132E+01
.1360	.6661E+01	-.6628E+01
.1370	.8414E+01	-.8373E+01
.1380	.8273E+01	-.8232E+01
.1390	.8132E+01	-.8091E+01
.1400	.9637E+01	-.9639E+01
.1410	.6300E+01	-.6269E+01
.1420	.4709E+01	-.4686E+01
.1430	.3960E+01	-.3940E+01
.1440	.3210E+01	-.3194E+01
.1450	.1591E+01	-.1583E+01
.1460	.5961E-01	-.5931E-01
.1470	-.1025E+01	.1020E+01
.1480	-.1305E+01	.1298E+01
.1490	-.1584E+01	.1576E+01
.1500	-.1761E+01	.1752E+01
.1510	-.1541E+01	.1534E+01
.1520	-.4681E+00	.4658E+00
.1530	.2963E+00	-.2948E+00
.1540	.1061E+01	-.1055E+01
.1550	.2503E+01	-.2491E+01
.1560	.4533E+01	-.4510E+01
.1570	.4575E+01	-.4552E+01
.1580	.7425E+01	-.7388E+01
.1590	.6329E+01	-.6297E+01
.1600	.8414E+01	-.8373E+01
.1610	.9617E+01	-.9569E+01
.1620	.1018E+02	-.1013E+02
.1630	.1032E+02	-.1027E+02
.1640	.1047E+02	-.1041E+02
.1650	.1032E+02	-.1027E+02
.1660	.9687E+01	-.9639E+01
.1670	.8697E+01	-.8654E+01
.1680	.8096E+01	-.8056E+01
.1690	.7495E+01	-.7458E+01
.1700	.6435E+01	-.6403E+01
.1710	.5834E+01	-.5805E+01
.1720	.5904E+01	-.5875E+01
.1730	.6360E+01	-.6329E+01
.1740	.6816E+01	-.6783E+01

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ADLPIPE STRESS ANALYSIS

83/12/02. 17.46.59.

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

CONDITION 24  
LOADS  
SHOCK  
PRESSURE

FORCING FUNCTIONS AT NETWORK POINTS

(TIME IN SECS, FORCE (X,Y,Z DOFS) IN LBS , MOMENT (RX,RY,RZ DOFS) IN IN-LBS)

67 67

.1600	.8414E+01	-.8373E+01
.1610	.9617E+01	-.9589E+01
.1620	.1018E+02	-.1013E+02
.1630	.1032E+02	-.1027E+02
.1640	.1047E+02	-.1041E+02
.1650	.1032E+02	-.1027E+02
.1660	.9687E+01	-.9639E+01
.1670	.8697E+01	-.8654E+01
.1680	.8096E+01	-.8056E+01
.1690	.7495E+01	-.7458E+01
.1700	.6435E+01	-.6403E+01
.1710	.5834E+01	-.5805E+01
.1720	.5904E+01	-.5875E+01
.1730	.6360E+01	-.6329E+01
.1740	.6816E+01	-.6783E+01

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DIS/ADLPIPE

ADLPIPE STRESS ANALYSIS

83/12/02. 17.46.59.

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

CONDITION 24  
LOADS  
SHOCK  
PRESSURE

FORCING FUNCTIONS AT NETWORK POINTS

(TIME IN SECS, FORCE (X,Y,Z DOFS) IN LBS , MOMENT (RX,RY,RZ DOFS) IN IN-LBS)

TIME	67 Y	67 Z
.1750	.8627E+01	-.8584E+01
.1760	.1153E+02	-.1147E+02
.1770	.1556E+02	-.1548E+02
.1780	.1842E+02	-.1833E+02
.1790	.2128E+02	-.2118E+02
.1800	.2913E+02	-.2899E+02
.1810	.4009E+02	-.3989E+02
.1820	.5494E+02	-.5467E+02
.1830	.6424E+02	-.6392E+02
.1840	.7354E+02	-.7317E+02
.1850	.9334E+02	-.9288E+02
.1860	.1082E+03	-.1077E+03
.1870	.1103E+03	-.1098E+03
.1880	.1029E+03	-.1024E+03
.1890	.9546E+02	-.9499E+02
.1900	.6371E+02	-.6339E+02
.1910	.2489E+02	-.2477E+02
.1920	-.1435E+02	.1428E+02
.1930	-.2437E+02	.2425E+02
.1940	-.3439E+02	.3422E+02
.1950	-.4441E+02	.4419E+02
.1960	-.4928E+02	.4904E+02
.1970	-.5416E+02	.5390E+02
.1980	-.4672E+02	.4648E+02
.1990	-.3927E+02	.3907E+02
.2000	-.3182E+02	.3166E+02
.2010	-.2291E+02	.2280E+02
.2020	-.1400E+02	.1393E+02
.2030	-.1140E+02	.1134E+02
.2040	-.8792E+01	.8748E+01
.2050	-.6187E+01	.6157E+01
.2060	-.4207E+01	.4186E+01
.2070	-.2227E+01	.2216E+01
.2080	-.1615E+01	.1607E+01
.2090	-.1002E+01	.9968E+00
.2100	-.3889E+00	.3870E+00
.2110	-.1347E+01	.1340E+01
.2120	-.2305E+01	.2294E+01
.2130	-.4082E+01	.4062E+01
.2140	-.5860E+01	.5830E+01
.2150	-.7637E+01	.7599E+01
.2160	-.1008E+02	.1003E+02
.2170	-.1252E+02	.1245E+02
.2180	-.1336E+02	.1330E+02

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ADLPIPE STRESS ANALYSIS

83/12/02. 17.46.59.

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

CONDITION 24  
LOADS  
SHOCK  
PRESSURE

FORCING FUNCTIONS AT NETWORK POINTS

(TIME IN SECS, FORCE (X,Y,Z DOFS) IN LBS , MOMENT (RX,RY,RZ DOFS) IN IN-LBS)

67 67

.2030	-.1140E+02	.1134E+01
.2040	-.8792E+01	.8748E+01
.2050	-.6187E+01	.6157E+01
.2060	-.4207E+01	.4186E+01
.2070	-.2227E+01	.2216E+01
.2080	-.1615E+01	.1607E+01
.2090	-.1002E+01	.9988E+00
.2100	-.3889E+00	.3870E+00
.2110	-.1347E+01	.1340E+01
.2120	-.2305E+01	.2294E+01
.2130	-.4082E+01	.4062E+01
.2140	-.5860E+01	.5820E+01
.2150	-.7637E+01	.7599E+01
.2160	-.1008E+02	.1003E+02
.2170	-.1252E+02	.1245E+02
.2180	-.1336E+02	.1330E+02

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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

FORCING FUNCTIONS AT NETWORK POINTS

(TIME IN SECS, FORCE (X,Y,Z DOFS) IN LBS , MOMENT (RX,RY,RZ DOFS) IN IN-LBS)

TIME	67 Y	67 Z
.2190	-.1421E+02	.1414E+02
.2200	-.1506E+02	.1499E+02
.2210	-.1496E+02	.1488E+02
.2220	-.1485E+02	.1478E+02
.2230	-.1369E+02	.1363E+02
.2240	-.1254E+02	.1248E+02
.2250	-.1138E+02	.1133E+02
.2260	-.8552E+01	.8510E+01
.2270	-.5720E+01	.5692E+01
.2280	-.3662E+01	.3644E+01
.2290	-.1603E+01	.1595E+01
.2300	.4554E+00	-.4531E+00
.2310	.2642E+01	-.2629E+01
.2320	.4829E+01	-.4806E+01
.2330	.4721E+01	-.4698E+01
.2340	.4613E+01	-.4590E+01
.2350	.4504E+01	-.4482E+01
.2360	.3638E+01	-.3620E+01
.2370	.2772E+01	-.2758E+01
.2380	.4129E+01	-.4109E+01
.2390	.5487E+01	-.5460E+01
.2400	.6845E+01	-.6811E+01
.2410	.1053E+02	-.1048E+02
.2420	.1421E+02	-.1414E+02
.2430	.1541E+02	-.1534E+02
.2440	.1662E+02	-.1653E+02
.2450	.1782E+02	-.1773E+02
.2460	.1884E+02	-.1875E+02
.2470	.1987E+02	-.1977E+02
.2480	.2166E+02	-.2155E+02
.2490	.2345E+02	-.2334E+02
.2500	.2524E+02	-.2512E+02
.2510	.2814E+02	-.2800E+02
.2520	.3104E+02	-.3089E+02
.2530	.3168E+02	-.3152E+02
.2540	.3231E+02	-.3215E+02
.2550	.3295E+02	-.3279E+02
.2560	.3185E+02	-.3170E+02
.2570	.3076E+02	-.3061E+02
.2580	.2927E+02	-.2913E+02
.2590	.2779E+02	-.2765E+02
.2600	.2630E+02	-.2617E+02
.2610	.2637E+02	-.2624E+02
.2620	.2645E+02	-.2631E+02

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ADLPIPE STRESS ANALYSIS

83/12/02. 17.46.59.

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

CONDITION 24  
LOADS  
SHOCK  
PRESSURE

FORCING FUNCTIONS AT NETWORK POINTS

(TIME IN SECS, FORCE (X,Y,Z DOFS) IN LBS , MOMENT (RX,RY,RZ DOFS) IN IN-LBS)

.2470	.1987E+02	-.1977E+02
.2480	.2166E+02	-.2155E+02
.2490	.2345E+02	-.2334E+02
.2500	.2524E+02	-.2512E+02
.2510	.2814E+02	-.2800E+02
.2520	.3104E+02	-.3089E+02
.2530	.3168E+02	-.3152E+02
.2540	.3231E+02	-.3215E+02
.2550	.3295E+02	-.3279E+02
.2560	.3185E+02	-.3170E+02
.2570	.3076E+02	-.3061E+02
.2580	.2927E+02	-.2913E+02
.2590	.2779E+02	-.2765E+02
.2600	.2630E+02	-.2617E+02
.2610	.2637E+02	-.2624E+02
.2620	.2645E+02	-.2631E+02

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DIS/ADLPIPE

ADLPIPE STRESS ANALYSIS

83/12/02. 17.46.59.

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

CONDITION 24  
LOADS  
SHOCK  
PRESSURE

FORCING FUNCTIONS AT NETWORK POINTS

(TIME IN SECS, FORCE (X,Y,Z DOFS) IN LBS , MOMENT (RX,RY,RZ DOFS) IN IN-LBS)

TIME	67 Y	67 Z
------	---------	---------

.2630	.2376E+02	-.2364E+02
.2640	.2461E+02	-.2449E+02
.2650	.2454E+02	-.2441E+02
.2660	.2447E+02	-.2434E+02
.2670	.2284E+02	-.2273E+02
.2680	.2093E+02	-.2083E+02
.2690	.2058E+02	-.2047E+02
.2700	.2128E+02	-.2118E+02
.2710	.2199E+02	-.2188E+02
.2720	.4872E+02	-.4848E+02
.2730	.1082E+03	-.1077E+03
.2740	.1138E+03	-.1133E+03
.2750	.1032E+03	-.1027E+03
.2760	.9263E+02	-.9217E+02
.2770	.4228E+02	-.4208E+02
.2780	-.1018E+02	.1013E+02
.2790	-.4278E+02	.4257E+02
.2800	-.4561E+02	.4538E+02
.2810	-.4844E+02	.4820E+02
.2820	-.2779E+02	.2765E+02
.2830	-.1393E+02	.1386E+02
.2840	-.1343E+02	.1337E+02
.2850	-.1474E+02	.1467E+02
.2860	-.1605E+02	.1597E+02
.2870	-.2086E+02	.2076E+02
.2880	-.2715E+02	.2702E+02
.2890	-.3147E+02	.3131E+02
.2900	-.3154E+02	.3138E+02
.2910	-.3161E+02	.3145E+02
.2920	-.2793E+02	.2779E+02
.2930	-.2192E+02	.2181E+02
.2940	-.1442E+02	.1435E+02
.2950	-.9281E+01	.9235E+01
.2960	-.4137E+01	.4116E+01
.2970	.8414E+01	-.8373E+01
.2980	.2121E+02	-.2111E+02
.2990	.3345E+02	-.3328E+02
.3000	.3811E+02	-.3792E+02
.3010	.4278E+02	-.4257E+02
.3020	.5027E+02	-.5003E+02
.3030	.5416E+02	-.5390E+02
.3040	.5409E+02	-.5383E+02
.3050	.5356E+02	-.5330E+02
.3060	.5303E+02	-.5277E+02

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DIS/ADLPIPE

ADLPIPE STRESS ANALYSIS

83/12/02. 17.46.59.

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

CONDITION 24  
LOADS  
SHOCK  
PRESSURE

FORCING FUNCTIONS AT NETWORK POINTS

(TIME IN SECS, FORCE (X,Y,Z DOFS) IN LBS , MOMENT (RX,RY,RZ DOFS) IN IN-LBS)

.2910	-.3161E+02	.3145E+02
.2920	-.2793E+02	.2779E+02
.2930	-.2192E+02	.2181E+02
.2940	-.1442E+02	.1435E+02
.2950	-.9281E+01	.9235E+01
.2960	-.4137E+01	.4116E+01
.2970	.8414E+01	-.8373E+01
.2980	.2121E+02	-.2111E+02
.2990	.3345E+02	-.3328E+02
.3000	.3811E+02	-.3792E+02
.3010	.4278E+02	-.4257E+02
.3020	.5027E+02	-.5003E+02
.3030	.5416E+02	-.5390E+02
.3040	.5409E+02	-.5383E+02
.3050	.5356E+02	-.5330E+02
.3060	.5303E+02	-.5277E+02

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DIS/ADLPIPE

ADLPIPE STRESS ANALYSIS

83/12/02. 17.46.59.

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

CONDITION 24  
LOADS  
SHOCK  
PRESSURE

FORCING FUNCTIONS AT NETWORK POINTS

(TIME IN SECS, FORCE (X,Y,Z DOFS) IN LBS , MOMENT (RX,RY,RZ DOFS) IN IN-LBS)

TIME	67 Y	67 Z
.3070	.4716E+02	-.4693E+02
.3080	.4158E+02	-.4137E+02
.3090	.3818E+02	-.3799E+02
.3100	.3560E+02	-.3543E+02
.3110	.3302E+02	-.3286E+02
.3120	.2857E+02	-.2843E+02
.3130	.2305E+02	-.2294E+02
.3140	.2341E+02	-.2329E+02
.3150	.2358E+02	-.2347E+02
.3160	.2376E+02	-.2364E+02
.3170	.2616E+02	-.2603E+02
.3180	.2708E+02	-.2695E+02
.3190	.2588E+02	-.2575E+02
.3200	.2652E+02	-.2638E+02
.3210	.2715E+02	-.2702E+02
.3220	.1796E+02	-.1787E+02
.3230	.1952E+02	-.1942E+02
.3240	.2015E+02	-.2005E+02
.3250	.1725E+02	-.1717E+02
.3260	.1435E+02	-.1428E+02
.3270	.2058E+02	-.2047E+02
.3280	.8556E+01	-.8514E+01
.3290	.1273E+02	-.1266E+02
.3300	.1538E+02	-.1530E+02
.3310	.1803E+02	-.1794E+02
.3320	.6809E+01	-.6776E+01
.3330	.1881E+02	-.1872E+02
.3340	-.7007E+01	.6973E+01
.3350	-.6516E+01	.6484E+01
.3360	-.6024E+01	.5995E+01
.3370	.1739E+02	-.1731E+02
.3380	.1294E+02	-.1288E+02
.3390	.6116E+02	-.6086E+02
.3400	.5611E+02	-.5583E+02
.3410	.5105E+02	-.5080E+02
.3420	.5225E+02	-.5200E+02
.3430	.1167E+03	-.1161E+03
.3440	.1011E+03	-.1006E+03
.3450	.8476E+02	-.8436E+02
.3460	.6845E+02	-.6811E+02
.3470	.2001E+02	-.1991E+02
.3480	-.7425E+02	.7388E+02
.3490	-.4921E+02	.4897E+02
.3500	-.7389E+01	.7353E+01

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DIS/ADLPIPE

ADLPIPE STRESS ANALYSIS

83/12/02. 17.47.00.

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

CONDITION 24  
LOADS  
SHOCK  
PRESSURE

FORCING FUNCTIONS AT NETWORK POINTS

.3350	-.6510E+01	.5484E+01
.3360	-.6024E+01	.5995E+01
.3370	.1739E+02	-.1731E+02
.3380	.1294E+02	-.1288E+02
.3390	.6116E+02	-.6086E+02
.3400	.5611E+02	-.5583E+02
.3410	.5105E+02	-.5080E+02
.3420	.5225E+02	-.5200E+02
.3430	.1167E+03	-.1161E+03
.3440	.1011E+03	-.1006E+03
.3450	.8478E+02	-.8436E+02
.3460	.6845E+02	-.6811E+02
.3470	.2001E+02	-.1991E+02
.3480	-.7425E+02	.7388E+02
.3490	-.4921E+02	.4897E+02
.3500	-.7389E+01	.7353E+01

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DIS/ADLPIPE

ADLPIPE STRESS ANALYSIS

83/12/02. 17.47.00.

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

CONDITION 24

LOADS

SHOCK

PRESSURE

FORCING FUNCTIONS AT NETWORK POINTS

(TIME IN SECS, FORCE (X,Y,Z DOFS) IN LBS , MOMENT (RX,RY,RZ DOFS) IN IN-LBS)

TIME	67 Y	67 Z
.3510	.3444E+02	-.3427E+02
.3520	.2058E+03	-.2047E+03
.3530	.2659E+03	-.2646E+03
.3540	.2786E+03	-.2772E+03
.3550	.3065E+03	-.3050E+03
.3560	.3345E+03	-.3328E+03
.3570	.3168E+03	-.3152E+03
.3580	.3125E+03	-.3110E+03
.3590	.3790E+03	-.3771E+03
.3600	.3560E+03	-.3543E+03
.3610	.3330E+03	-.3314E+03
.3620	.3719E+03	-.3701E+03
.3630	.2885E+03	-.2871E+03
.3640	.3033E+03	-.3018E+03
.3650	.3270E+03	-.3254E+03
.3660	.3507E+03	-.3490E+03
.3670	.4179E+03	-.4158E+03
.3680	.5176E+03	-.5150E+03
.3690	.6435E+03	-.6403E+03
.3700	.7142E+03	-.7106E+03
.3710	.7849E+03	-.7810E+03
.3720	.9334E+03	-.9288E+03
.3730	.1068E+04	-.1062E+04
.3740	.1188E+04	-.1182E+04
.3750	.1248E+04	-.1242E+04
.3760	.1308E+04	-.1302E+04
.3770	.1457E+04	-.1449E+04
.3780	.1626E+04	-.1618E+04
.3790	.1810E+04	-.1801E+04
.3800	.1909E+04	-.1900E+04
.3810	.2008E+04	-.1998E+04
.3820	.2199E+04	-.2188E+04
.3830	.2390E+04	-.2378E+04
.3840	.2553E+04	-.2540E+04
.3850	.2623E+04	-.2610E+04
.3860	.2694E+04	-.2681E+04
.3870	.2800E+04	-.2786E+04
.3880	.2878E+04	-.2864E+04
.3890	.2927E+04	-.2913E+04
.3900	.2934E+04	-.2920E+04
.3910	.2942E+04	-.2927E+04
.3920	.2927E+04	-.2913E+04
.3930	.2878E+04	-.2864E+04
.3940	.2800E+04	-.2786E+04

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DIS/ADLPIPE

ADLPIPE STRESS ANALYSIS

83/12/02. 17.47.00.

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

CONDITION 24

LOADS

SHOCK

PRESSURE

FORCING FUNCTIONS AT NETWORK POINTS

.3800	.1909E+04	-.1900E+04
.3810	.2008E+04	-.1998E+04
.3820	.2199E+04	-.2188E+04
.3830	.2390E+04	-.2378E+04
.3840	.2553E+04	-.2540E+04
.3850	.2623E+04	-.2610E+04
.3860	.2694E+04	-.2681E+04
.3870	.2800E+04	-.2786E+04
.3880	.2878E+04	-.2864E+04
.3890	.2927E+04	-.2913E+04
.3900	.2934E+04	-.2920E+04
.3910	.2942E+04	-.2927E+04
.3920	.2927E+04	-.2913E+04
.3930	.2878E+04	-.2864E+04
.3940	.2800E+04	-.2786E+04

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DIS/ADLPIPE

ADLPIPE STRESS ANALYSIS

83/12/02. 17.47.00.

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

CONDITION 24  
LOADS  
SHOCK  
PRESSURE

FORCING FUNCTIONS AT NETWORK POINTS

(TIME IN SECS, FORCE (X,Y,Z DOFS) IN LBS , MOMENT (RX,RY,RZ DOFS) IN IN-LBS)

TIME	67 Y	67 Z
.3950	.2744E+04	-.2730E+04
.3960	.2687E+04	-.2674E+04
.3970	.2553E+04	-.2540E+04
.3980	.2390E+04	-.2378E+04
.3990	.2185E+04	-.2174E+04
.4000	.2065E+04	-.2055E+04

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DIS/ADLPIPE

ADLPIPE STRESS ANALYSIS

83/12/02. 17.48.10.

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

CONDITION 24  
LOADS  
SHOCK  
PRESSURE  
ENGLISH UNITS

FINAL BOUNDARY CONDITIONS AT TIME .4000E+00



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

CONDITION 24  
LOADS  
SHOCK  
PRESSURE  
ENGLISH UNITS

FINAL BOUNDARY CONDITIONS AT TIME .4000D+00  
( UNITS ARE IN INCHES, RAD., IN/SEC AND RAD/SEC )

ID	0	801	-.281552E-01	.383817E-02	-.689058E-01	0.	0.	0.
IV	0	801	-.318506E+01	.176200E+00	.176619E+01	0.	0.	0.
ID	0	802	-.188957E-01	.349830E-01	-.763323E-01	0.	0.	0.
IV	0	802	-.272693E+01	.936877E+00	.123261E+01	0.	0.	0.
ID	0	803	.524860E-01	.537656E-01	-.251327E-01	0.	0.	0.
IV	0	803	.181684E+00	.130300E+01	.328150E-01	0.	0.	0.
ID	0	804	.582844E-01	.107658E+00	-.351348E-01	0.	0.	0.
IV	0	804	.865180E+00	.197978E+01	-.886338E+00	0.	0.	0.
ID	0	24	.135314E-01	.119551E+00	-.775281E-01	0.	0.	0.
IV	0	24	.551100E+00	.207180E+01	-.103423E+01	0.	0.	0.
ID	0	805	-.411418E-01	.123840E+00	-.126126E+00	0.	0.	0.
IV	0	805	.291087E+00	.207796E+01	-.100327E+01	0.	0.	0.
ID	0	228	-.256359E-01	.184522E+00	-.111548E+00	0.	0.	0.
IV	0	228	.117096E+01	.208356E+01	-.146345E+01	0.	0.	0.
ID	0	806	-.261505E-01	.195809E+00	-.111381E+00	0.	0.	0.
IV	0	806	.130829E+01	.204389E+01	-.151131E+01	0.	0.	0.
ID	0	841	-.235989E-01	.203551E+00	-.110485E+00	0.	0.	0.
IV	0	841	.139414E+01	.158488E+01	-.150136E+01	0.	0.	0.
ID	0	842	-.182337E-01	.207985E+00	-.108962E+00	0.	0.	0.
IV	0	842	.145308E+01	.123863E+01	-.148752E+01	0.	0.	0.
ID	0	843	-.250584E-01	.170753E+00	-.103844E+00	0.	0.	0.
IV	0	843	.137427E+01	.126405E+01	-.143542E+01	0.	0.	0.

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

CONDITION 24  
LOADS  
SHOCK  
PRESSURE  
ENGLISH UNITS

FINAL BOUNDARY CONDITIONS AT TIME .4000D+00  
( UNITS ARE IN INCHES, RAD., IN/SEC AND RAD/SEC )

ID	0	841	-.235989E-01	.203551E+00	-.110485E+00	0.	0.	0.
IV	0	841	.139414E+01	.158488E+01	-.150136E+01	0.	0.	0.
ID	0	842	-.182337E-01	.207985E+00	-.108962E+00	0.	0.	0.
IV	0	842	.145308E+01	.123863E+01	-.148752E+01	0.	0.	0.
ID	0	843	-.250584E-01	.170753E+00	-.103844E+00	0.	0.	0.
IV	0	843	.137427E+01	.126405E+01	-.143542E+01	0.	0.	0.

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DIS/ADLPIPE

ADLPIPE STRESS ANALYSIS

83/12/02. 17.48.11.

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

CONDITION 24  
LOADS  
SHOCK  
PRESSURE  
ENGLISH UNITS

FINAL BOUNDARY CONDITIONS AT TIME .4000D+00  
( UNITS ARE IN INCHES, RAD., IN/SEC AND RAD/SEC )

ID	0	807	.101923E-01	.714570E-01	-.387482E-01	0.	0.	0.
IV	0	807	.156970E+01	-.872353E+00	-.110919E+01	0.	0.	0.
ID	0	852	.211513E-01	.899063E-01	-.458423E-01	0.	0.	0.
IV	0	852	.166410E+01	-.115641E+01	-.116385E+01	0.	0.	0.
ID	0	853	.264649E-01	.107086E+00	-.597146E-01	0.	0.	0.
IV	0	853	.167305E+01	-.123997E+01	-.118075E+01	0.	0.	0.
ID	0	35	.431312E-02	.512980E-01	-.355527E-01	0.	0.	0.
IV	0	35	.137879E+01	-.871067E+00	-.100631E+01	0.	0.	0.
ID	0	808	-.768467E-02	.343705E-01	-.379091E-01	0.	0.	0.
IV	0	808	.955905E+00	-.999236E+00	-.850242E+00	0.	0.	0.
ID	0	138	.326980E-01	.327270E-01	-.177635E-01	0.	0.	0.
IV	0	138	.191025E+01	-.101077E+01	-.105414E+01	0.	0.	0.
ID	0	809	.423207E-01	.288158E-01	-.118484E-01	0.	0.	0.
IV	0	809	.208506E+01	-.101017E+01	-.113057E+01	0.	0.	0.
ID	0	810	.360880E-01	.126769E-01	-.776914E-02	0.	0.	0.
IV	0	810	.152964E+01	-.778011E+00	-.777025E+00	0.	0.	0.
ID	0	811	.651043E-02	.793729E-02	-.167395E-01	0.	0.	0.
IV	0	811	.357476E+00	-.566598E+00	.101602E+01	0.	0.	0.
ID	0	812	.870240E-03	.102846E-02	-.145972E-01	0.	0.	0.
IV	0	812	-.971297E-01	-.797150E-01	.131534E+01	0.	0.	0.
ID	0	52	.140719E-01	.601066E-01	-.316526E-01	0.	0.	0.
IV	0	52	.161897E+01	-.107595E+01	-.102427E+01	0.	0.	0.
ID	0	53	.870415E-02	.257553E-01	-.126162E-01	0.	0.	0.
IV	0	53	.131490E+01	-.282243E+00	-.461086E+00	0.	0.	0.

ID	0	844	.382593E-02	.216607E-01	-.996017E-02	0.	0.	0.
IV	0	844	.986895E+00	.285732E+00	-.282932E+00	0.	0.	0.

ID	C	811	.651043E-02	.793729E-02	-.167395E-01	0.	0.	0.
IV	0	811	.357476E+00	-.566598E+00	.101602E+01	0.	0.	0.
ID	0	812	.870240E-03	.102846E-02	-.145972E-01	0.	0.	0.
IV	0	812	-.971297E-01	-.797150E-01	.131534E+01	0.	0.	0.
ID	0	52	.140719E-01	.601066E-01	-.316526E-01	0.	0.	0.
IV	0	52	.161897E+01	-.107595E+01	-.102427E+01	0.	0.	0.
ID	0	53	.870415E-02	.257553E-01	-.126162E-01	0.	0.	0.
IV	0	53	.131490E+01	-.282243E+00	-.461086E+00	0.	0.	0.

ID	0	844	.382593E-02	.216607E-01	-.996017E-02	0.	0.	0.
IV	0	844	.986895E+00	.285732E+00	-.282932E+00	0.	0.	0.

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DIS/ADLPIPE

ADLPIPE STRESS ANALYSIS

83/12/02. 17.48.11.

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

CONDITION 24  
LOADS  
SHOCK  
PRESSURE  
ENGLISH UNITS

FINAL BOUNDARY CONDITIONS AT TIME .4000D+00  
( UNITS ARE IN INCHES, RAD., IN/SEC AND RAD/SEC )

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

CONDITION 24

LOADS

SHOCK

PRESSURE

ENGLISH UNITS

FINAL BOUNDARY CONDITIONS AT TIME .4000D+00  
( UNITS ARE IN INCHES, RAD., IN/SEC AND RAD/SEC )

ID	0	55	-.312338E-01	-.209843E-02	.912124E-02	0.	0.	0.
IV	0	55	-.166461E+01	.431273E+01	.116546E+01	0.	0.	0.
ID	0	56	-.304008E-01	-.856724E-02	.158277E-01	0.	0.	0.
IV	0	56	-.238797E+01	.531823E+01	.675811E+00	0.	0.	0.
ID	0	815	-.132546E-01	-.851881E-02	.161111E-01	0.	0.	0.
IV	0	815	-.127054E+01	.531489E+01	-.836007E+00	0.	0.	0.
ID	0	816	.485581E-01	-.828941E-02	.150251E-01	0.	0.	0.
IV	0	816	.539635E+01	.526685E+01	-.558561E+01	0.	0.	0.
ID	0	817	.350163E-01	-.790060E-02	.146362E-01	0.	0.	0.
IV	0	817	.528577E+01	.514156E+01	.248118E+01	0.	0.	0.
ID	0	850	-.614650E-02	-.736496E-02	.125729E-01	0.	0.	0.
IV	0	850	.242290E+01	.495246E+01	.625697E+01	0.	0.	0.
ID	0	818	.651980E-02	-.713216E-02	-.125680E-01	0.	0.	0.
IV	0	818	-.953163E+00	.489959E+01	-.216788E+01	0.	0.	0.
ID	0	851	.247071E-01	-.700806E-02	-.547116E-01	0.	0.	0.
IV	0	851	-.409186E+01	.488479E+01	-.700385E+01	0.	0.	0.
ID	0	161	-.138888E-01	-.680701E-02	-.330145E-02	0.	0.	0.
IV	0	161	-.226285E+01	.481584E+01	-.869588E+00	0.	0.	0.
ID	0	62	-.121042E-01	.111884E-01	.479731E-01	0.	0.	0.
IV	0	62	-.106555E+01	.374852E+01	.499001E+00	0.	0.	0.
ID	0	820	.786929E-01	.870849E-01	.271540E+00	0.	0.	0.
IV	0	820	-.195435E+01	-.242454E+01	-.157233E+01	0.	0.	0.
ID	0	821	.769141E-01	.103408E+00	.269863E+00	0.	0.	0.
IV	0	821	-.155542E+01	.219739E+01	-.640783E+00	0.	0.	0.
ID	0	265	-.879681E-02	.618181E-01	.612816E-01	0.	0.	0.
IV	0	265	-.833139E+00	.142364E+02	.100662E+01	0.	0.	0.

ID	0	10	-.138888E-01	-.680701E-02	-.330145E-02	0.	0.	0.
IV	0	161	-.226285E+01	.481584E+01	-.869588E+00	0.	0.	0.
ID	0	62	-.121042E-01	.111884E-01	.479731E-01	0.	0.	0.
IV	0	62	-.106555E+01	.374852E+01	.499001E+00	0.	0.	0.
ID	0	820	.786929E-01	.870849E-01	.271540E+00	0.	0.	0.
IV	0	820	-.195435E+01	-.242454E+01	-.157233E+01	0.	0.	0.
ID	0	821	.769141E-01	.103408E+00	.269863E+00	0.	0.	0.
IV	0	821	-.155542E+01	.219739E+01	-.640783E+00	0.	0.	0.

ID	0	265	-.879681E-02	.618181E-01	.612816E-01	0.	0.	0.
IV	0	265	-.833139E+00	.142364E+02	.100662E+01	0.	0.	0.

ADLPIPE PAGE 89

DIS/ADLPIPE

ADLPIPE STRESS ANALYSIS

83/12/02. 17.48.11.

S/RV PIPING KEWAUNEE GW08F 2 RUP DISK

2 SAFETY COLD FKW24F--2 PSV

CONDITION 24

LOADS

SHOCK

PRESSURE

ENGLISH UNITS

FINAL BOUNDARY CONDITIONS AT TIME .40000+00

( UNITS ARE IN INCHES, RAD., IN/SEC AND RAD/SEC )

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

CONDITION 24

LOADS

SHOCK

PRESSURE

ENGLISH UNITS

FINAL BOUNDARY CONDITIONS AT TIME .4000D+00  
( UNITS ARE IN INCHES, RAD., IN/SEC AND RAD/SEC )

ID	0	266	-.102228E-01	.594403E-01	.555793E-01	0.	0.	0.
IV	0	266	-.837477E+00	.139318E+02	.980807E+00	0.	0.	0.
ID	0	66	-.150479E-01	.124818E-01	-.142791E-02	0.	0.	0.
	0	66	-.917150E+00	.188330E+01	.831459E-01	0.	0.	0.
ID	0	67	-.295813E-02	-.399123E-04	.182722E-03	0.	0.	0.
IV	0	67	-.562058E-01	.348018E-01	.355512E-01	0.	0.	0.
ID	0	71	-.243803E-01	-.214337E-02	.888134E-02	0.	0.	0.
IV	0	71	-.214207E+01	.626592E+01	-.398693E+00	0.	0.	0.
ID	0	72	-.264737E-01	-.134118E-02	.820872E-02	0.	0.	0.
IV	0	72	-.266608E+01	.655113E+01	.254338E+00	0.	0.	0.
ID	0	173	-.270871E-01	-.132373E-02	.826554E-02	0.	0.	0.
IV	0	173	-.327060E+01	.654646E+01	.125544E+01	0.	0.	0.
ID	0	174	-.273794E-01	-.183257E-02	.747864E-02	0.	0.	0.
IV	0	174	-.355410E+01	.664193E+01	.212057E+01	0.	0.	0.
ID	0	826	-.269581E-01	-.250383E-02	.823351E-02	0.	0.	0.
IV	0	826	-.363054E+01	.628307E+01	.199356E+01	0.	0.	0.
ID	0	827	.348931E-01	-.238905E-01	-.997589E-02	0.	0.	0.
IV	0	827	-.543522E+01	.255981E+01	-.559813E+00	0.	0.	0.
ID	0	828	-.144874E-01	-.566871E-01	.721263E-02	0.	0.	0.
IV	0	828	-.585249E+01	-.198051E+01	-.129895E+01	0.	0.	0.
ID	0	85	-.136642E-01	-.608548E-01	.226943E-01	0.	0.	0.
IV	0	85	-.280603E+01	-.178660E+01	.257241E+01	0.	0.	0.
ID	0	86	-.142296E-01	-.576253E-01	.240870E-01	0.	0.	0.
IV	0	86	-.270271E+01	-.199324E+00	.246572E+01	0.	0.	0.
ID	0	830	-.155579E-01	-.211110E-01	.248435E-01	0.	0.	0.
IV	0	830	.213848E+01	.326341E+01	-.951790E-01	0.	0.	0.

1D	0	827	.348931E-01	-.238905E-01	-.997589E-02	0.	0.	0.
1V	0	827	-.543522E+01	.255981E+01	-.559813E+00	0.	0.	0.
1D	0	828	-.144874E-01	-.566871E-01	.721263E-02	0.	0.	0.
1V	0	828	-.585249E+01	-.198051E+01	-.129895E+01	0.	0.	0.
1D	0	85	-.136642E-01	-.608548E-01	.226943E-01	0.	0.	0.
1V	0	85	-.280603E+01	-.178660E+01	.257241E+01	0.	0.	0.
1D	0	86	-.142296E-01	-.576253E-01	.240870E-01	0.	0.	0.
1V	0	86	-.270271E+01	-.199324E+00	.246572E+01	0.	0.	0.

1D	0	830	-.155578E-01	-.211110E-01	.248435E-01	0.	0.	0.
1V	0	830	.213848E+01	.326341E+01	-.951790E-01	0.	0.	0.

ADLPIPE PAGE 90

DIS/ADLPIPE

ADLPIPE STRESS ANALYSIS

83/12/02. 17.48.11.

S/RV PIPING KEWAUNEE GKW08F 2 RUP DISK  
2 SAFETY COLD FKW24F--2 PSVCONDITION 24  
LOADS  
SHOCK  
PRESSURE  
ENGLISH UNITSFINAL BOUNDARY CONDITIONS AT TIME .4000D+00  
( UNITS ARE IN INCHES, RAD., IN/SEC AND RAD/SEC )

ID	0	90	.749513E-03	-.344567E-03	.158785E-01	0.	0.	0.
IV	0	90	.440196E+01	.295437E+00	-.132050E+01	0.	0.	0.
ID	0	91	.284517E-02	-.153981E-03	.140839E-01	0.	0.	0.
IV	0	91	.379069E+01	-.190099E-01	-.129828E+01	0.	0.	0.
ID	0	832	-.394818E-02	-.965899E-02	.206527E-01	0.	0.	0.
IV	0	832	.389263E+01	.277471E+01	.390341E+01	0.	0.	0.
ID	0	833	-.463636E-02	.276001E-01	.523555E-01	0.	0.	0.
IV	0	833	-.717615E+00	-.376219E+01	-.342314E+01	0.	0.	0.
ID	0	104	-.271611E-01	.300973E-01	.137755E-01	0.	0.	0.
IV	0	104	.167759E+01	-.462570E+01	-.246924E+01	0.	0.	0.
ID	0	105	-.270879E-01	.270873E-01	.112658E-01	0.	0.	0.
IV	0	105	.122663E+01	-.346217E+01	-.188211E+01	0.	0.	0.
ID	0	106	-.279510E-01	.545219E-02	.116411E-01	0.	0.	0.
IV	0	106	-.280038E+01	.236351E+01	.296770E+00	0.	0.	0.
ID	0	107	-.278247E-01	.180662E-02	.113628E-01	0.	0.	0.
IV	0	107	-.327631E+01	.349368E+01	.839695E+00	0.	0.	0.

ADLPIPE PAGE 91

DIS/ADLPIPE

ADLPIPE STRESS ANALYSIS

83/12/02. 18.25.44.

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



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	1	MEMBER	1	SEQUENCE	10	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)										
0.0000	0.	0.	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.
.0010	0.	0.	0.	-0.	-0.	-0.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.
.0020	2.	1.	0.	-1.	-3.	-1.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2.
.0030	5.	12.	0.	-0.	-8.	-3.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	6.
.0040	13.	49.	1.	4.	-19.	-5.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	13.
.0050	23.	120.	5.	10.	-39.	-2.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	27.
.0060	31.	206.	10.	14.	-66.	13.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	46.
.0070	33.	295.	19.	13.	-102.	46.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	76.
.0080	32.	429.	32.	14.	-151.	102.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	123.
.0090	34.	653.	46.	21.	-216.	185.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	192.
.0100	37.	939.	53.	11.	-317.	297.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	293.
.0110	20.	1203.	53.	-37.	-464.	451.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	437.
.0120	-37.	1404.	64.	-108.	-639.	657.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	622.
.0130	-125.	1575.	90.	-186.	-844.	903.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	842.
.0140	-229.	1719.	127.	-261.	-1099.	1160.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1092.
.0150	-345.	1811.	185.	-302.	-1391.	1410.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1350.
.0160	-468.	1907.	292.	-240.	-1677.	1644.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1591.
.0170	-568.	2119.	447.	-53.	-2008.	1842.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1837.
.0180	-644.	2468.	645.	257.	-2440.	2017.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2141.
.0190	-751.	2850.	910.	718.	-2877.	2241.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2505.
.0200	-922.	3100.	1216.	1295.	-3247.	2573.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2925.
.0210	-1121.	3043.	1446.	1852.	-3526.	2983.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	3354.
.0220	-1296.	2516.	1486.	2228.	-3777.	3369.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	3727.
.0230	-1519.	1462.	1483.	2549.	-3890.	3705.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4008.
.0240	-1797.	230.	1647.	3126.	-3552.	3953.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4156.
.0250	-1891.	-739.	1804.	3730.	-3346.	3808.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4242.
.0260	-1713.	-1239.	1864.	4184.	-3742.	3149.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4338.
.0270	-1542.	-1288.	2198.	5053.	-3668.	2387.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4506.
.0280	-1429.	-1365.	2692.	6219.	-2776.	1710.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4733.
.0290	-1078.	-2076.	2609.	6538.	-2502.	805.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4749.
.0300	-673.	-3072.	2202.	6341.	-2441.	-62.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4580.
.0310	-474.	-3218.	2185.	6601.	-1635.	-414.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4592.
.0320	-405.	-2711.	2351.	6851.	-912.	-345.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4665.
.0330	-405.	-2595.	2235.	6466.	-559.	-4.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4375.
.0340	-501.	-2737.	1921.	5704.	8.	715.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	3875.
.0350	-669.	-2496.	1636.	4838.	662.	1813.	0.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	3511.

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

.0260	-1713.	-1239.	1864.	4184.	-3742.	3149.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4242.
.0270	-1542.	-1288.	2198.	5053.	-3668.	2337.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4338.
.0280	-1429.	-1365.	2692.	6219.	-2776.	1710.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4504.
.0290	-1078.	-2076.	2609.	6538.	-2502.	605.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4733.
.0300	-673.	-3072.	2202.	6341.	-2441.	-62.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4749.
.0310	-474.	-7218.	2185.	6601.	-1635.	-414.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4580.
.0320	-405.	-2711.	2351.	6851.	-912.	-345.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4592.
.0330	-405.	-2595.	2235.	6466.	-559.	-4.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4665.
.0340	-501.	-2737.	1921.	5704.	8.	715.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4375.
.0350	-669.	-2496.	1636.	4838.	662.	1813.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	3875.
														3511.

ADLPIPE PAGE 92 DIS/ADLPIPE ADLPIPE STRESS ANALYSIS 83/12/02. 18.25.45.

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	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)
.0360								-953.	-2174.	1422.	3868.	1192.	3170.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	3465.
.0370								-1311.	-1814.	1251.	2958.	2028.	4658.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	3963.
.0380								-1418.	-613.	943.	2042.	2958.	6002.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4716.
.0390								-1248.	926.	390.	756.	3443.	7028.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	5300.
.0400								-1256.	1350.	-150.	-716.	4241.	7916.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	6072.
.0410								-1246.	1530.	-732.	-2180.	5760.	8509.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	7080.
.0420								-555.	3007.	-1849.	-4266.	6515.	8236.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	7640.
.0430								383.	4239.	-3258.	-7040.	6613.	7257.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	8143.
.0440								848.	3563.	-4380.	-9827.	7652.	6061.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	9337.
.0450								1478.	2909.	-5608.	-12856.	8593.	4204.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	10801.
.0460								2809.	3715.	-7257.	-16476.	7896.	1318.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	12347.
.0470								3890.	3827.	-8501.	-19760.	7049.	-1808.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	14194.
.0480								4229.	2449.	-8891.	-21915.	7250.	-4603.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	15865.
.0490								4787.	2082.	-9203.	-23496.	6651.	-7539.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	17226.
.0500								5692.	2759.	-9630.	-24692.	4601.	-10524.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	18356.
.0510								5755.	1514.	-9282.	-24481.	3347.	-12519.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	18671.
.0520								5003.	-1061.	-8092.	-22559.	3133.	-13386.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	17807.
.0530								4616.	-1607.	-6889.	-19673.	1849.	-13885.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	16279.
.0540								4369.	-1071.	-5597.	-15908.	-34.	-13859.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	14221.
.0550								3224.	-2877.	-3648.	-10960.	-533.	-12698.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	11312.
.0560								1721.	-5667.	-1473.	-5418.	-582.	-10931.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	8233.
.0570								926.	-5853.	364.	157.	-1759.	-9359.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	6420.
.0580								347.	-4679.	2231.	5940.	-2803.	-7712.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	6828.
.0590								-747.	-5402.	4251.	11502.	-2688.	-5719.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	8846.
.0600								-1715.	-6902.	5740.	15777.	-2932.	-4017.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	11150.
.0610								-1992.	-6446.	6802.	18757.	-4151.	-2939.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	13099.
.0620								-2201.	-4984.	7458.	21066.	-4895.	-1995.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	14639.
.0630								-2710.	-4627.	8217.	22230.	-5075.	-1069.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	15386.
.0640								-3000.	-4635.	8296.	21522.	-6004.	-559.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	15065.
.0650								-2952.	-3657.	7907.	19539.	-7356.	-338.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	14074.
.0660								-3045.	-2408.	7584.	17133.	-7991.	76.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	12743.
.0670								-3277.	-1659.	7150.	14171.	-8340.	659.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	11092.
.0680								-3286.	-703.	6330.	10637.	-9012.	1241.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	9434.
.0690								-3154.	786.	5398.	7277.	-9274.	2063.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	8067.
.0700								-3112.	2043.	4527.	4452.	-8732.	3299.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	6970.
.0710								-3027.	2916.	3538.	1964.	-8028.	4757.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	6428.
.0720								-2791.	4115.	2530.	71.	-7241.	6370.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	6501.
.0730								-2591.	5710.	1821.	-805.	-5874.	8273.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	6861.

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.0630	-2710.	-4627.	8217.	22230.	-5075.	-1069.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	15386.
.0640	-3000.	-4635.	8296.	21522.	-6004.	-559.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	15065.
.0650	-2952.	-3657.	7907.	19539.	-7356.	-338.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	14074.
.0660	-3045.	-2408.	7584.	17123.	-7991.	76.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	12743.
.0670	-3277.	-1659.	7150.	14171.	-3340.	659.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	11092.
.0680	-3286.	-703.	6330.	10637.	-9012.	1241.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	9434.
.0690	-3154.	786.	5398.	7277.	-9274.	2063.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	8067.
.0700	-3112.	2043.	4527.	4452.	-8732.	3299.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	6970.
.0710	-3027.	2916.	3538.	1964.	-8028.	4757.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	6428.
.0720	-2791.	4115.	2530.	71.	-7241.	6370.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	6501.
.0730	-2591.	5710.	1821.	-805.	-5874.	8273.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	6861.

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SECTION	1	MEMBER	1	SEQUENCE	10	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)		
.0740	-2512.	7058.	1334.	-938.	-4136.	10390.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	7558.		
.0750	-2424.	7923.	795.	-828.	-2515.	12442.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	8574.		
.0760	-2322.	8425.	247.	-522.	-925.	14370.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	9713.		
.0770	-2337.	8469.	-122.	34.	757.	16122.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	10879.		
.0780	-2450.	8124.	-305.	688.	2309.	17506.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	11911.		
.0790	-2484.	7790.	-427.	1267.	3609.	18282.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	12590.		
.0800	-2350.	7330.	-619.	1538.	4650.	18285.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	12759.		
.0810	-2129.	6068.	-926.	1257.	5335.	17441.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	12323.		
.0820	-1867.	4243.	-1217.	582.	5768.	15771.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	11326.		
.0830	-1416.	3043.	-1399.	-170.	6104.	13315.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	9873.		
.0840	-675.	2525.	-1644.	-1168.	6170.	10112.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	8023.		
.0850	156.	1301.	-2120.	-2743.	5934.	6368.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	6151.		
.0860	890.	-954.	-2714.	-4672.	5770.	2406.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	5260.		
.0870	1690.	-2786.	-3306.	-6511.	5699.	-1604.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	5932.		
.0880	2664.	-3602.	-3916.	-8186.	5375.	-5573.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	7595.		
.0890	3518.	-4583.	-4471.	-9703.	4972.	-9220.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	9625.		
.0900	4064.	-6139.	-4844.	-10878.	4842.	-12287.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	11533.		
.0910	4551.	-7061.	-5092.	-11639.	4635.	-14807.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	13074.		
.0920	5054.	-6954.	-5242.	-12040.	4032.	-16777.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	14182.		
.0930	5226.	-6856.	-5101.	-11998.	3473.	-17946.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	14738.		
.0940	4980.	-6958.	-4625.	-11495.	3169.	-18219.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	14677.		
.0950	4641.	-6384.	-4074.	-10788.	2644.	-17811.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	14148.		
.0960	4269.	-5342.	-3598.	-10090.	1849.	-16826.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	13283.		
.0970	3624.	-4908.	-3106.	-9386.	1288.	-15218.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	12083.		
.0980	2803.	-4857.	-2593.	-8656.	918.	-13172.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	10642.		
.0990	2135.	-4062.	-2146.	-7889.	346.	-11026.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	9141.		
.1000	1622.	-2611.	-1721.	-6999.	-235.	-8899.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	7633.		
.1010	1097.	-1474.	-1292.	-6037.	-528.	-6804.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	6142.		
.1020	650.	-700.	-974.	-5175.	-805.	-4883.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4827.		
.1030	401.	360.	-758.	-4331.	-1234.	-3207.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	3727.		
.1040	222.	1712.	-482.	-3266.	-1497.	-1637.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2661.		
.1050	-8.	2800.	-159.	-2067.	-1547.	-88.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1742.		
.1060	-245.	3345.	49.	-1015.	-1718.	1396.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1641.		
.1070	-508.	3432.	188.	-33.	-1947.	2848.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2325.		
.1080	-873.	3290.	445.	1157.	-2008.	4334.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	3313.		
.1090	-1278.	3230.	841.	2599.	-2019.	5776.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4481.		
.1100	-1538.	3364.	1174.	4032.	-2273.	6981.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	5646.		
.1110	-1821.	3101.	1548.	5419.	-2794.	7995.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	6777.		

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.1010	1097.	-1474.	-1292.	-6037.	-528.	-6804.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	6142.
.1020	650.	-700.	-974.	-5175.	-805.	-4883.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4827.
.1030	401.	360.	-758.	-4331.	-1234.	-3207.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	3727.
.1040	222.	1712.	-482.	-3266.	-1497.	-1637.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2661.
.1050	-8.	2300.	-159.	-2067.	-1547.	-88.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1742.
.1060	-245.	3345.	49.	-1015.	-1712.	1396.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1641.
.1070	-508.	3432.	188.	-33.	-1947.	2848.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2325.
.1080	-873.	3290.	445.	1157.	-2008.	4334.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	3313.
.1090	-1278.	3230.	841.	2599.	-2019.	5776.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4481.
.1100	-1538.	3364.	1174.	4032.	-2273.	6981.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	5646.
.1110	-1821.	3101.	1548.	5419.	-2794.	7995.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	6777.

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SECTION	MEMBR	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)	RX (DEG)	RY (DEG)	RZ (DEG)	STRESS (PSI)	
.1120	-2316.	2548.	2260.	7162.	-3074.	9006.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	8028.	
.1130	-2752.	2767.	3170.	9274.	-3223.	9920.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	9408.	
.1140	-2930.	3641.	3904.	11235.	-3781.	10599.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	10718.	
.1150	-3213.	3645.	4527.	12908.	-4361.	11293.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	11928.	
.1160	-3812.	2642.	5273.	14606.	-4322.	12224.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	13165.	
.1170	-4275.	2272.	5926.	16197.	-4328.	13092.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	14338.	
.1180	-4453.	2793.	6368.	17515.	-4585.	13735.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	15318.	
.1190	-4719.	2662.	6757.	18454.	-4844.	14275.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	16061.	
.1200	-5215.	1767.	7277.	19287.	-4457.	14808.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	16663.	
.1210	-5439.	1750.	7643.	19913.	-3734.	15002.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	16992.	
.1220	-5064.	2607.	7388.	19530.	-3922.	14458.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	16591.	
.1230	-4787.	2400.	7009.	18541.	-3721.	13628.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	15712.	
.1240	-4717.	1363.	6723.	17256.	-2699.	12626.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	14527.	
.1250	-4153.	1578.	6046.	15281.	-2028.	10978.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	12756.	
.1260	-3112.	2544.	4856.	12435.	-1722.	8688.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	10290.	
.1270	-2225.	1931.	3451.	8798.	-1169.	6140.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	7274.	
.1280	-1551.	197.	2056.	4871.	129.	3482.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4037.	
.1290	-358.	-161.	308.	514.	835.	270.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	686.	
.1300	1209.	462.	-1658.	-4093.	937.	-3353.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	3622.	
.1310	2340.	-217.	-3270.	-8302.	1903.	-6727.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	7316.	
.1320	3267.	-1668.	-4731.	-12281.	2875.	-9948.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	10828.	
.1330	4467.	-1851.	-6209.	-15870.	3191.	-13143.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	14055.	
.1340	5631.	-1267.	-7420.	-18659.	3342.	-15931.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	16690.	
.1350	6210.	-1794.	-8113.	-20452.	4073.	-17852.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	18503.	
.1360	6423.	-3072.	-8540.	-21469.	4972.	-19004.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	19614.	
.1370	6751.	-3601.	-8996.	-21982.	4987.	-19714.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	20184.	
.1380	6811.	-3758.	-9002.	-21361.	5241.	-19660.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	19884.	
.1390	6388.	-4463.	-8466.	-19677.	5952.	-18813.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	18783.	
.1400	5882.	-5162.	-7796.	-17523.	6227.	-17600.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	17258.	
.1410	5442.	-5147.	-7015.	-14869.	6232.	-16152.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	15382.	
.1420	4896.	-4880.	-6002.	-11750.	6214.	-14435.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	13227.	
.1430	4143.	-4887.	-4777.	-8344.	6420.	-12466.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	10998.	
.1440	3488.	-4739.	-3694.	-5212.	6149.	-10559.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	8954.	
.1450	2946.	-4216.	-2738.	-2408.	5497.	-8744.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	7148.	
.1460	2240.	-3780.	-1656.	310.	5202.	-6825.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	5788.	
.1470	1520.	-3493.	-693.	2484.	4622.	-5014.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4892.	
.1480	930.	-3048.	36.	4033.	3710.	-3426.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4356.	
.1490	407.	-2480.	640.	5105.	2643.	-2014.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4106.	

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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

.1380	6811.	-3758.	9002.	-21361.	5241.	-19650.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	19884.
.1390	6388.	-4463.	-2466.	-19677.	5952.	-12813.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	18783.
.1400	5882.	-5162.	-7796.	-17523.	6227.	-17600.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	17258.
.1410	5442.	-5147.	-7015.	-14869.	6232.	-16152.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	15382.
.1420	4896.	-4880.	-6002.	-11750.	6214.	-14435.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	13227.
.1430	4143.	-4887.	-4777.	-8344.	6420.	-12466.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	10998.
.1440	3488.	-4739.	-3694.	-5212.	6149.	-10559.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	8954.
.1450	2946.	-4216.	-2738.	-2408.	5497.	-8744.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	7148.
.1460	2240.	-3780.	-1656.	310.	5202.	-6825.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	5788.
.1470	1520.	-3493.	-693.	2484.	4622.	-5014.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4892.
.1480	930.	-3048.	36.	4033.	3710.	-3426.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4356.
.1490	407.	-2480.	640.	5105.	2643.	-2014.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4106.

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S/RV PIPING KEWAUNEE GKW08F 2 RUP DISK  
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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	1	MEMBER	1	SEQUENCE	10	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)	
.1500	-179.	-1971.	1281.	5920.	1642.	-681.		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4166.	
.1510	-757.	-1284.	1975.	6597.	792.	566.		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4495.	
.1520	-1129.	-251.	2373.	6905.	-430.	1582.		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4784.	
.1530	-1483.	626.	2743.	7117.	-1489.	2560.		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	5196.	
.1540	-1907.	1145.	3125.	7360.	-2300.	3586.		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	5732.	
.1550	-2255.	1824.	3453.	7668.	-3031.	4584.		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	6359.	
.1560	-2479.	2792.	3699.	8093.	-3549.	5533.		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	7027.	
.1570	-2648.	3395.	3809.	8386.	-4170.	6379.		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	7638.	
.1580	-2937.	3386.	3988.	8801.	-4395.	7225.		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	8227.	
.1590	-3172.	3548.	4208.	9388.	-4335.	7935.		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	8785.	
.1600	-3146.	4175.	4265.	9799.	-4662.	8272.		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	9198.	
.1610	-3127.	4384.	4309.	10119.	-4877.	8387.		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	9449.	
.1620	-3259.	3882.	4465.	10531.	-4408.	8397.		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	9552.	
.1630	-3133.	3538.	4363.	10526.	-4370.	7951.		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	9367.	
.1640	-2798.	3441.	4096.	10223.	-4572.	7105.		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	8940.	
.1650	-2594.	2866.	3957.	9952.	-4228.	6142.		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	8382.	
.1660	-2379.	1950.	3762.	9408.	-3946.	4934.		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	7639.	
.1670	-1980.	1338.	3416.	8589.	-3875.	3436.		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	6761.	
.1680	-1501.	881.	3012.	7627.	-3820.	1795.		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	5876.	
.1690	-1163.	31.	2701.	6726.	-3311.	242.		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	5056.	
.1700	-811.	-953.	2316.	5688.	-2847.	-1300.		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4376.	
.1710	-309.	-1575.	1778.	4471.	-2771.	-2868.		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4039.	
.1720	88.	-2050.	1387.	3591.	-2091.	-4149.		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	3958.	
.1730	441.	-2647.	965.	2700.	-1355.	-5237.		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4075.	
.1740	831.	-3266.	417.	1637.	-853.	-6204.		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4363.	
.1750	1171.	-3684.	-71.	680.	-176.	-6940.		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4702.	
.1760	1470.	-3804.	-490.	-219.	525.	-7475.		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	5053.	
.1770	1734.	-3740.	-894.	-1159.	1261.	-7839.		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	5409.	
.1780	2011.	-3654.	-1407.	-2386.	1715.	-8118.		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	5819.	
.1790	2191.	-3644.	-1888.	-3692.	2306.	-8206.		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	6261.	
.1800	2312.	-3533.	-2343.	-5056.	2944.	-8148.		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	6761.	
.1810	2504.	-3163.	-2896.	-6662.	3125.	-8085.		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	7369.	
.1820	2618.	-2727.	-3364.	-8158.	3489.	-7867.		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	7993.	
.1830	2679.	-2352.	-3794.	-9597.	3858.	-7535.		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	8626.	
.1840	2754.	-1967.	-4244.	-11007.	4014.	-7156.		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	9254.	
.1850	2807.	-1465.	-4616.	-12187.	4089.	-6680.		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	9765.	
.1860	2801.	-828.	-4832.	-13001.	4116.	-6060.		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	10059.	
.1870	2697.	-146.	-4859.	-13346.	4258.	-5241.		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	10082.	

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

.1770	1734.	-3740.	-894.	-1159.	1261.	-7839.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	5409.
.1780	2011.	-3654.	-1407.	-2386.	1715.	-8118.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	5819.
.1790	2191.	-3644.	-1888.	-3692.	2306.	-8206.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	6261.
.1800	2312.	-3533.	-2343.	-5056.	2944.	-8148.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	6761.
.1810	2504.	-3163.	-2896.	-6662.	3125.	-8085.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	7369.
.1820	2618.	-2727.	-3364.	-8158.	3489.	-7867.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	7993.
.1830	2679.	-2352.	-3794.	-9597.	3858.	-7535.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	8626.
.1840	2754.	-1967.	-4244.	-11007.	4014.	-7156.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	9254.
.1850	2807.	-1465.	-4616.	-12187.	4089.	-6680.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	9765.
.1860	2801.	-828.	-4832.	-13001.	4116.	-6060.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	10059.
.1870	2697.	-146.	-4859.	-13346.	4258.	-5241.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	10082.

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CONDITION 24

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ENGLISH UNITS

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

SECTION	1	MEMBER	1	SEQUENCE	10	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)		
.1880	2560.	477.	-4829.	-13426.	4132.	-4295.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	9901.		
.1890	2308.	933.	-4658.	-13081.	4038.	-3132.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	9466.		
.1900	1925.	1270.	-4304.	-12223.	4127.	-1733.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	8774.		
.1910	1533.	1562.	-3913.	-11096.	3963.	-257.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	7944.		
.1920	1085.	1704.	-3429.	-9628.	3822.	1291.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	7036.		
.1930	585.	1696.	-2840.	-7840.	3786.	2845.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	6173.		
.1940	134.	1672.	-2238.	-5920.	3649.	4243.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	5491.		
.1950	-233.	1626.	-1664.	-3995.	3379.	5381.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	5059.		
.1960	-555.	1496.	-1079.	-2096.	3098.	6237.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4902.		
.1970	-813.	1394.	-494.	-315.	2751.	6770.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4930.		
.1980	-970.	1403.	31.	1214.	2238.	6949.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4988.		
.1990	-1063.	1350.	468.	2410.	1627.	6823.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4999.		
.2000	-1138.	1078.	814.	3236.	964.	6461.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4914.		
.2010	-1190.	724.	1082.	3719.	192.	5912.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4710.		
.2020	-1220.	485.	1317.	3973.	-652.	5247.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4458.		
.2030	-1257.	336.	1552.	4090.	-1495.	4546.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4243.		
.2040	-1315.	164.	1779.	4096.	-2361.	3865.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4116.		
.2050	-1396.	5.	2016.	4079.	-3226.	3264.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4138.		
.2060	-1505.	9.	2307.	4182.	-3990.	2813.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4333.		
.2070	-1635.	213.	2647.	4449.	-4637.	2553.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4661.		
.2080	-1792.	479.	2998.	4835.	-5195.	2504.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	5072.		
.2090	-1993.	679.	3343.	5321.	-5589.	2688.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	5508.		
.2100	-2219.	849.	3662.	5888.	-5772.	3082.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	5933.		
.2110	-2423.	1056.	3910.	6452.	-5823.	3606.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	6342.		
.2120	-2596.	1246.	4080.	6945.	-5751.	4187.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	6701.		
.2130	-2744.	1356.	4181.	7327.	-5502.	4752.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	6957.		
.2140	-2813.	1458.	4176.	7503.	-5151.	5186.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	7060.		
.2150	-2761.	1608.	4034.	7383.	-4795.	5392.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	6958.		
.2160	-2618.	1725.	3783.	6959.	-4384.	5349.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	6613.		
.2170	-2407.	1754.	3441.	6231.	-3883.	5058.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	6009.		
.2180	-2098.	1748.	2970.	5157.	-3386.	4503.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	5149.		
.2190	-1700.	1695.	2368.	3758.	-2911.	3721.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4069.		
.2200	-1271.	1484.	1680.	2171.	-2358.	2800.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2855.		
.2210	-828.	1096.	926.	354.	-1730.	1797.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1698.		
.2220	-351.	653.	114.	-1486.	-1103.	744.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1345.		
.2230	143.	238.	-697.	-3237.	-432.	-292.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2210.		
.2240	617.	-162.	-1451.	-4766.	338.	-1242.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	3328.		
.2250	1071.	-545.	-2144.	-6038.	1131.	-2080.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4372.		

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S/RV PIPING KEWAUNEE GKW08F 2 RUP DISK  
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CONDITION 24

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

.2140	-2813.	1451.	4176.	7503.	-5151.	5186.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	7060.
.2150	-2761.	1608.	4034.	7383.	-4795.	5392.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	6958.
.2160	-2618.	1725.	3783.	6959.	-4384.	5349.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	6613.
.2170	-2407.	1754.	3441.	6231.	-3883.	5058.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	6009.
.2180	-2098.	1748.	2970.	5157.	-3386.	4503.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	5149.
.2190	-1700.	1695.	2368.	3758.	-2911.	3721.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4069.
.2200	-1271.	1484.	1680.	2131.	-2358.	2806.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2855.
.2210	-828.	1096.	926.	354.	-1730.	1797.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1698.
.2220	-351.	653.	114.	-1486.	-1103.	744.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1345.
.2230	143.	238.	-697.	-3237.	-432.	-292.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2210.
.2240	617.	-162.	-1451.	-4766.	338.	-1242.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	3328.
.2250	1071.	-545.	-2144.	-6038.	1131.	-2080.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4372.

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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	1	MEMBER	1	SEQUENCE	10	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)		
.2260	1498.	-861.	-2758.	-7010.	1898.	-2771.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	5239.		
.2270	1861.	-1068.	-3235.	-7602.	2685.	-3257.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	5861.		
.2280	2137.	-1163.	-3565.	-7821.	3471.	-3508.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	6233.		
.2290	2329.	-1198.	-3781.	-7765.	4158.	-3534.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	6397.		
.2300	2417.	-1246.	-3893.	-7505.	4730.	-3340.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	6390.		
.2310	2382.	-1318.	-3883.	-7071.	5210.	-2944.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	6244.		
.2320	2250.	-1341.	-3760.	-6525.	5541.	-2408.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	5994.		
.2330	2053.	-1276.	-3551.	-5938.	5681.	-1815.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	5673.		
.2340	1805.	-1168.	-3270.	-5357.	5665.	-1228.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	5320.		
.2350	1532.	-1057.	-2947.	-4832.	5507.	-714.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4951.		
.2360	1274.	-915.	-2619.	-4409.	5191.	-343.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4596.		
.2370	1060.	-717.	-2307.	-4096.	4750.	-152.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4229.		
.2380	896.	-486.	-2022.	-3888.	4237.	-152.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	3877.		
.2390	789.	-278.	-1786.	-3801.	3664.	-345.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	3566.		
.2400	741.	-127.	-1616.	-3835.	3042.	-715.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	3334.		
.2410	745.	-28.	-1504.	-3951.	2410.	-1228.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	3227.		
.2420	791.	30.	-1434.	-4104.	1775.	-1843.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	3260.		
.2430	861.	49.	-1384.	-4244.	1133.	-2512.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	3411.		
.2440	929.	35.	-1319.	-4303.	507.	-3175.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	3620.		
.2450	981.	11.	-1219.	-4222.	-93.	-3772.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	3817.		
.2460	1004.	-22.	-1077.	-3969.	-685.	-4253.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	3948.		
.2470	977.	-91.	-875.	-3507.	-1257.	-4561.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	3970.		
.2480	878.	-188.	-590.	-2790.	-1774.	-4644.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	3842.		
.2490	707.	-263.	-217.	-1798.	-2238.	-4472.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	3582.		
.2500	466.	-305.	236.	-546.	-2653.	-4036.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	3277.		
.2510	154.	-363.	755.	939.	-2987.	-3336.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	3084.		
.2520	-217.	-444.	1315.	2609.	-3227.	-2400.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	3231.		
.2530	-615.	-496.	1893.	4401.	-3395.	-1280.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	3845.		
.2540	-1025.	-485.	2481.	6265.	-3480.	-30.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4831.		
.2550	-1432.	-414.	3059.	8129.	-3454.	1288.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	6016.		
.2560	-1800.	-294.	3575.	9869.	-3352.	2590.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	7239.		
.2570	-2101.	-142.	3983.	11357.	-3221.	3794.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	8358.		
.2580	-2337.	16.	4279.	12521.	-3039.	4847.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	9279.		
.2590	-2503.	198.	4461.	13302.	-2803.	5701.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	9936.		
.2600	-2574.	437.	4500.	13616.	-2580.	6297.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	10260.		
.2610	-2549.	696.	4382.	13414.	-2394.	6608.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	10208.		
.2620	-2454.	898.	4125.	12707.	-2213.	6642.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	9779.		
.2630	-2292.	1059.	3744.	11538.	-2047.	6412.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	9003.		

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.2520	-217.	-444.	1215.	2609.	-3227.	-2400.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	3231.
.2530	-615.	-496.	1893.	4401.	-3395.	-1280.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	3845.
.2540	-1025.	-485.	2481.	6265.	-3480.	-50.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4831.
.2550	-1432.	-414.	3059.	8129.	-3454.	1288.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	6016.
.2560	-1800.	-294.	3575.	9869.	-3352.	2590.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	7239.
.2570	-2101.	-142.	3933.	11357.	-3221.	3794.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	8358.
.2580	-2337.	16.	4279.	12521.	-3039.	4847.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	9279.
.2590	-2503.	198.	4461.	13302.	-2803.	5701.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	9936.
.2600	-2574.	437.	4500.	13616.	-2580.	6297.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	10260.
.2610	-2549.	696.	4382.	13414.	-2394.	6608.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	10208.
.2620	-2454.	898.	4125.	12707.	-2213.	6642.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	9779.
.2630	-2292.	1059.	3744.	11538.	-2047.	6412.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	9003.

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SECTION	1	MEMBER	1	SEQUENCE	10	LOCATION	BEG	TYPE	RU						
TIME	FX	FY	FZ	MX	MY	MZ									STRESS
(SEC)	(LB)	(LB)	(LB)	(FT-LB)	(FT-LB)	(FT-LB)	(IN)	(IN)	(IN)	(DEG)	(DEG)	(DEG)	(DEG)	(DEG)	(PSI)
.2640	-2057.	1246.	3254.	9978.	-1925.	5935.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	7932.
.2650	-1768.	1446.	2691.	8146.	-1813.	5267.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	6652.
.2660	-1453.	1600.	2086.	6167.	-1665.	4475.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	5257.
.2670	-1119.	1699.	1457.	4153.	-1490.	3614.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	3844.
.2680	-772.	1767.	832.	2230.	-1282.	2740.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2533.
.2690	-439.	1802.	254.	534.	-992.	1918.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1499.
.2700	-133.	1793.	-249.	-850.	-613.	1188.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1068.
.2710	144.	1744.	-674.	-1891.	-177.	566.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1335.
.2720	384.	1640.	-1011.	-2576.	319.	58.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1750.
.2730	575.	1453.	-1254.	-2924.	879.	-341.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2071.
.2740	727.	1188.	-1419.	-3001.	1461.	-668.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2295.
.2750	858.	868.	-1531.	-2890.	2033.	-973.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2470.
.2760	978.	488.	-1611.	-2680.	2585.	-1305.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2659.
.2770	1100.	22.	-1687.	-2475.	3088.	-1719.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2908.
.2780	1241.	-520.	-1785.	-2364.	3506.	-2267.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	3234.
.2790	1416.	-1073.	-1912.	-2393.	3831.	-2982.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	3648.
.2800	1636.	-1586.	-2071.	-2587.	4055.	-3873.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4162.
.2810	1896.	-2059.	-2268.	-2961.	4164.	-4925.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4784.
.2820	2182.	-2516.	-2498.	-3504.	4164.	-6091.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	5505.
.2830	2474.	-2934.	-2743.	-4155.	4074.	-7299.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	6292.
.2840	2758.	-3259.	-2980.	-4838.	3900.	-8469.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	7081.
.2850	3007.	-3486.	-3185.	-5474.	3654.	-9509.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	7795.
.2860	3189.	-3650.	-3330.	-5980.	3361.	-10329.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	8358.
.2870	3281.	-3754.	-3392.	-6282.	3035.	-10855.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	8698.
.2880	3274.	-3748.	-3346.	-6312.	2672.	-11040.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	8759.
.2890	3159.	-3603.	-3170.	-6020.	2283.	-10856.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	8507.
.2900	2929.	-3337.	-2855.	-5391.	1881.	-10295.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	7935.
.2910	2590.	-2977.	-2411.	-4458.	1459.	-9383.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	7071.
.2920	2156.	-2529.	-1859.	-3267.	1014.	-8164.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	5966.
.2930	1646.	-1996.	-1219.	-1876.	559.	-6695.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4702.
.2940	1083.	-1414.	-526.	-369.	97.	-5051.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	3414.
.2950	493.	-827.	181.	1158.	-778.	-3317.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2382.
.2960	-97.	-261.	871.	2628.	-854.	-1577.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2145.
.2970	-660.	289.	1519.	3982.	-1317.	88.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2828.
.2980	-1167.	815.	2096.	5161.	-1770.	1601.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	3833.
.2990	-1599.	1285.	2583.	6125.	-2207.	2905.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4805.
.3000	-1950.	1680.	2976.	6866.	-2605.	3970.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	5627.
.3010	-2213.	2016.	3275.	7393.	-2952.	4780.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	6259.

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.2910	2590.	-2977.	2411.	-4458.	1459.	-9383.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	7071.
.2920	2156.	-2529.	-1859.	-3267.	1014.	-8164.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	5966.
.2930	1646.	-1996.	-1219.	-1876.	550.	-6695.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4702.
.2940	1083.	-1414.	-526.	-369.	97.	-5051.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	3414.
.2950	492.	-827.	181.	1158.	-378.	-3317.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2382.
.2960	-97.	-261.	871.	2628.	-854.	-1577.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2145.
.2970	-660.	289.	1510.	3982.	-1317.	88.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2828.
.2980	-1167.	815.	2096.	5161.	-1770.	1601.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	3833.
.2990	-1599.	1285.	2583.	6125.	-2207.	2905.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4805.
.3000	-1950.	1680.	2976.	6866.	-2605.	3970.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	5627.
.3010	-2213.	2016.	3275.	7393.	-2952.	4750.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	6259.

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INTERNAL FORCES IN THE PIPING  
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SECTION	1	MEMBER	1	SEQUENCE	10	LOCATION	BEG	TYPE	RU						
TIME	FX	FY	FZ	MX	MY	MZ									
(SEC)	(LB)	(LB)	(LB)	(FT-LB)	(FT-LB)	(FT-LB)	(IN)	(IN)	(IN)	(DEG)	(DEG)	(DEG)	(PSI)		
.3020	-2384.	2289.	3476.	7717.	-3247.	5337.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	6692.		
.3030	-2475.	2461.	3581.	7859.	-3474.	5666.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	6938.		
.3040	-2503.	2508.	3604.	7856.	-3614.	5804.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	7020.		
.3050	-2474.	2451.	3557.	7745.	-3665.	5785.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	6969.		
.3060	-2397.	2314.	3452.	7562.	-3634.	5642.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	6815.		
.3070	-2287.	2093.	3305.	7337.	-3512.	5405.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	6583.		
.3080	-2153.	1793.	3129.	7089.	-3304.	5097.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	6293.		
.3090	-1994.	1457.	2929.	6824.	-3026.	4729.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	5956.		
.3100	-1813.	1114.	2712.	6538.	-2694.	4308.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	5581.		
.3110	-1616.	767.	2481.	6216.	-2312.	3839.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	5165.		
.3120	-1406.	418.	2233.	5828.	-1897.	3324.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4700.		
.3130	-1179.	91.	1959.	5342.	-1469.	2760.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4172.		
.3140	-938.	-209.	1655.	4726.	-1040.	2147.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	3569.		
.3150	-687.	-495.	1315.	3953.	-619.	1486.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2877.		
.3160	-426.	-769.	936.	3003.	-218.	777.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2096.		
.3170	-154.	-1006.	520.	1880.	152.	23.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1272.		
.3180	129.	-1190.	73.	601.	491.	-770.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	737.		
.3190	420.	-1328.	-399.	-808.	795.	-1589.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1315.		
.3200	714.	-1428.	-888.	-2311.	1063.	-2414.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2364.		
.3210	1007.	-1480.	-1381.	-3855.	1299.	-3221.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	3498.		
.3220	1292.	-1476.	-1862.	-5380.	1509.	-3980.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4624.		
.3230	1557.	-1425.	-2316.	-6827.	1695.	-4656.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	5686.		
.3240	1791.	-1348.	-2728.	-8145.	1862.	-5217.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	6639.		
.3250	1984.	-1258.	-3087.	-9289.	2012.	-5633.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	7447.		
.3260	2128.	-1160.	-3381.	-10219.	2142.	-5886.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	8079.		
.3270	2215.	-1055.	-3595.	-10902.	2253.	-5960.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	8511.		
.3280	2242.	-942.	-3721.	-11318.	2343.	-5852.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	8732.		
.3290	2210.	-827.	-3759.	-11469.	2407.	-5570.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	8746.		
.3300	2122.	-720.	-3713.	-11367.	2436.	-5129.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	8564.		
.3310	1982.	-621.	-3586.	-11028.	2432.	-4547.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	8206.		
.3320	1798.	-521.	-3387.	-10477.	2396.	-3847.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	7695.		
.3330	1581.	-415.	-3129.	-9751.	2320.	-3055.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	7063.		
.3340	1337.	-317.	-2828.	-8890.	2207.	-2195.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	6349.		
.3350	1073.	-233.	-2495.	-7930.	2063.	-1290.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	5591.		
.3360	800.	-150.	-2144.	-6905.	1885.	-362.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4831.		
.3370	525.	-55.	-1782.	-5843.	1671.	572.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4114.		
.3380	248.	56.	-1412.	-4762.	1431.	1500.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	3501.		
.3390	-27.	183.	-1038.	-3683.	1167.	2414.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	3070.		

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.3290	2210.	-827.	-2759.	-11469.	2407.	-5570.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	8746.
.3300	2122.	-720.	-3713.	-11367.	2436.	-5129.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	8564.
.3310	1982.	-621.	-3586.	-11028.	2432.	-4547.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	8206.
.3320	1798.	-521.	-3387.	-10477.	2396.	-3847.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	7695.
.3330	1561.	-415.	-3129.	-9751.	2320.	-3055.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	7063.
.3340	1337.	-317.	-2828.	-8890.	2207.	-2195.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	6349.
.3350	1073.	-273.	-2495.	-7930.	2063.	-1290.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	5591.
.3360	800.	-150.	-2144.	-6905.	1885.	-352.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4831.
.3370	525.	-55.	-1782.	-5843.	1671.	572.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4114.
.3380	248.	56.	-1412.	-4762.	1431.	1500.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	3501.
.3390	-27.	183.	-1038.	-3683.	1167.	2414.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	3070.

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ENGLISH UNITS

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

SECTION	1	MEMBER	1	SEQUENCE	10	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)
.3400	-298.	332.	-667.	-2623.	874.	3305.		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2904.
.3410	-564.	507.	-298.	-1591.	557.	4173.		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	3034.
.3420	-831.	707.	72.	-591.	227.	5018.		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	3409.
.3430	-1097.	931.	441.	367.	-117.	5838.		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	3944.
.3440	-1360.	1174.	802.	1267.	-477.	6626.		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4559.
.3450	-1621.	1426.	1155.	2098.	-843.	7375.		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	5200.
.3460	-1878.	1679.	1494.	2848.	-1209.	8073.		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	5827.
.3470	-2121.	1935.	1812.	3499.	-1574.	8699.		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	6409.
.3480	-2344.	2188.	2101.	4038.	-1934.	9235.		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	6918.
.3490	-2541.	2429.	2356.	4454.	-2275.	9660.		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	7332.
.3500	-2701.	2648.	2563.	4731.	-2591.	9954.		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	7631.
.3510	-2814.	2838.	2714.	4862.	-2879.	10100.		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	7801.
.3520	-2877.	2985.	2803.	4847.	-3124.	10090.		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	7833.
.3530	-2886.	3084.	2830.	4695.	-3313.	9919.		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	7727.
.3540	-2838.	3133.	2790.	4417.	-3442.	9587.		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	7484.
.3550	-2732.	3125.	2684.	4025.	-3509.	9103.		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	7114.
.3560	-2576.	3045.	2518.	3541.	-3503.	8483.		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	6631.
.3570	-2375.	2894.	2303.	2992.	-3421.	7745.		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	6053.
.3580	-2135.	2688.	2046.	2402.	-3267.	6911.		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	5401.
.3590	-1863.	2432.	1757.	1795.	-3044.	6004.		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4696.
.3600	-1570.	2117.	1445.	1189.	-2753.	5051.		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	3959.
.3610	-1263.	1746.	1118.	598.	-2403.	4075.		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	3214.
.3620	-950.	1340.	783.	37.	-2005.	3098.		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2488.
.3630	-636.	921.	451.	-482.	-1566.	2140.		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1817.
.3640	-329.	497.	126.	-955.	-1098.	1219.		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1280.
.3650	-33.	75.	-187.	-1384.	-615.	349.		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1048.
.3660	247.	-328.	-484.	-1770.	-127.	-457.		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1235.
.3670	507.	-694.	-761.	-2115.	355.	-1186.		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1652.
.3680	743.	-1012.	-1015.	-2421.	821.	-1830.		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2120.
.3690	952.	-1279.	-1247.	-2697.	1264.	-2382.		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2571.
.3700	1134.	-1494.	-1459.	-2950.	1677.	-2838.		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2982.
.3710	1286.	-1656.	-1651.	-3186.	2052.	-3197.		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	3342.
.3720	1411.	-1761.	-1823.	-3407.	2386.	-3466.		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	3649.
.3730	1510.	-1807.	-1975.	-3612.	2673.	-3651.		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	3903.
.3740	1585.	-1791.	-2106.	-3802.	2910.	-3764.		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4105.
.3750	1640.	-1715.	-2215.	-3976.	3090.	-3819.		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4260.
.3760	1676.	-1600.	-2302.	-4131.	3210.	-3828.		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4369.
.3770	1694.	-1440.	-2362.	-4256.	3268.	-3804.		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4434.

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.3670	247.	-328.	-714.	-1770.	-127.	-457.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1235.
.3680	507.	-694.	-761.	-2115.	355.	-1186.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1652.
.3690	743.	-1012.	-1015.	-2421.	821.	-1830.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2120.
.3700	952.	-1279.	-1247.	-2657.	1264.	-2382.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2571.
.3710	1134.	-1494.	-1459.	-2950.	1677.	-2838.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2982.
.3720	1266.	-1656.	-1651.	-3116.	2052.	-3197.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	3342.
.3730	1411.	-1761.	-1523.	-3407.	2386.	-3466.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	3649.
.3740	1510.	-1807.	-1975.	-3612.	2673.	-3651.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	3903.
.3750	1585.	-1791.	-2106.	-3802.	2910.	-3764.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4105.
.3760	1640.	-1719.	-2215.	-3976.	3090.	-3819.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4260.
.3770	1676.	-1600.	-2302.	-4171.	3210.	-3828.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4369.
.3780	1694.	-1440.	-2362.	-4256.	3268.	-3804.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4434.

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

SECTION	1	MEMBER	1	SEQUENCE	10	LOCATION	BEG	TYPE	RU						
TIME	FX	FY	FZ	MX	MY	MZ									
(SEC)	(LB)	(LB)	(LB)	(FT-LB)	(FT-LB)	(FT-LB)	(IN)	(IN)	(IN)	(DEG)	(DEG)	(DEG)	(PSI)		
.3760	1695.	-1241.	-2393.	-4343.	3262.	-3754.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4451.		
.3790	1678.	-1015.	-2390.	-4380.	3190.	-3685.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4417.		
.3800	1641.	-781.	-2350.	-4352.	3054.	-3598.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4327.		
.3810	1581.	-555.	-2268.	-4243.	2857.	-3494.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4176.		
.3820	1496.	-342.	-2138.	-4034.	2602.	-3371.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	3954.		
.3830	1385.	-145.	-1954.	-3704.	2296.	-3225.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	3654.		
.3840	1246.	30.	-1713.	-3236.	1950.	-3052.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	3274.		
.3850	1080.	170.	-1418.	-2624.	1574.	-2851.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2819.		
.3860	891.	265.	-1073.	-1868.	1179.	-2621.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2310.		
.3870	681.	316.	-684.	-971.	779.	-2367.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1803.		
.3880	459.	326.	-261.	51.	389.	-2095.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1436.		
.3890	234.	294.	180.	1169.	18.	-1818.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1457.		
.3900	14.	212.	621.	2345.	-326.	-1555.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1909.		
.3910	-189.	82.	1047.	3535.	-635.	-1323.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2580.		
.3920	-366.	-79.	1442.	4697.	-907.	-1146.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	3315.		
.3930	-508.	-256.	1795.	5784.	-1145.	-1041.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4036.		
.3940	-609.	-440.	2093.	6752.	-1349.	-1025.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4692.		
.3950	-666.	-632.	2328.	7559.	-1526.	-1106.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	5251.		
.3960	-682.	-824.	2494.	8176.	-1681.	-1284.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	5692.		
.3970	-659.	-1001.	2594.	8587.	-1820.	-1550.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	6008.		
.3980	-604.	-1152.	2634.	8792.	-1943.	-1887.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	6201.		
.3990	-525.	-1272.	2617.	8797.	-2054.	-2271.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	6278.		
.4000	-433.	-1370.	2551.	8614.	-2153.	-2675.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	6251.		

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)
.1370	-6751.	3601.	8996.	21982.	-4987.	19714.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	20184.

SECTION	1	MEMBER	1	SEQUENCE	12	LOCATION	END	TYPE	RU						
TIME	FX	FY	FZ	MX	MY	MZ									
(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.	-0.0000	.0000	-0.0000	.0000	.0000	.0000	0.		

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