MITSUBISHI HEAVY INDUSTRIES, LTD.
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TOKYO, JAPAN

December 25, 2008

Document Control Desk
U.S. Nuclear Regulatory Commission
Washington, DC 20555-0001

Attention: Mr. Jeffrey A. Ciocco

Docket No. 52-021
MHI Ref: UAP-HF-08289

Subject: MHI's Response to US-APWR DCD RAI No. 115-788 Revision 0

Reference: 1) "Request for Additional Information No. 115-788 Revision 0, SRP Section: 06.02.01.05, Application Section: 6.2.1.5" dated December 3, 2008.

With this letter, Mitsubishi Heavy Industries, Ltd. ("MHI") transmits to the U.S. Nuclear Regulatory Commission ("NRC") a document entitled "Response to Request for Additional Information No. 115-788 Revision 0."

Enclosed is the response to one RAI contained within Reference 1.

Please contact Dr. C. Keith Paulson, Senior Technical Manager, Mitsubishi Nuclear Energy Systems, Inc. if the NRC has questions concerning any aspect of the submittal. His contact information is below.

Sincerely,

Y. Ogata

Yoshiki Ogata,
General Manager- APWR Promoting Department
Mitsubishi Heavy Industries, LTD.

Enclosure:

1. Response to Request for Additional Information No. 115-788 Revision 0

CC: J. A. Ciocco
C. K. Paulson

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NRO

Docket No. 52-021
MHI Ref: UAP-HF-08289

Enclosure 1

UAP-HF-08289
Docket Number 52-021

Response to Request for Additional Information
No. 115-788 Revision 0

December 2008

RESPONSE TO REQUEST FOR ADDITIONAL INFORMATION

12/25/2008

US-APWR Design Certification

Mitsubishi Heavy Industries

Docket No. 52-021

RAI NO.:	**115-788**
SRP SECTION:	**06.02.01.05- MINIMUM CONTAINMENT PRESSURE ANALYSIS FOR EMERGENCY CORE COOLING SYSTEM PERFORMANCE CAPABILITY STUDIES**
APPLICATION SECTION:	**SRP 6.2.1.5**
DATE OF RAI ISSUE:	**12/3/2008**

QUESTION NO. : 06.02.01.05-1

6.2.1.5: The mass and energy release, as presented in Table 6.2.1-28, is very "irregular", as was discussed during various phone conversations with the staff. MHI personnel committed itself to revise the mass and energy release rates. Please, provide the revised table.

ANSWER:

The values in Table 6.2.1-28 are interpolated by presented time. The contents of Table 6.2.1-28 will be replaced by the data set of all points used for the minimum containment analysis and shown in Attachment in this response.

Impact on DCD

Table 6.2.1-28 will be modified in the next revision.

Impact on COLA

There is no impact on the COLA

Impact on PRA

There is no impact on the PRA

This completes MHI's response to the NRC's question.

Attachment

Table 6.2.1-28 Break Mass and Energy Flow for the Double Ended Guillotine Break Resulting in the Minimum Containment Pressures for use in ECCS Evaluation (Sheet 1 of 22)

Time (sec)	Break Flow		Spilled Flow	
	Mass (lbm/sec)	Enthalpy (Btu/lbm)	Mass (lbm/sec)	Enthalpy (Btu/lbm)
0.0	11753.1	547.4	0.0	0.0
0.5	100200.1	544.0	3780.6	65.3
1.0	96202.0	545.4	3756.4	73.0
1.5	89843.9	548.9	3646.7	66.6
2.0	79462.3	553.7	3545.5	64.5
2.5	69686.1	558.5	3452.8	64.3
3.0	60987.7	562.2	3367.9	64.3
3.5	55742.0	566.7	3289.1	64.3
4.0	51769.8	573.6	3214.0	64.3
4.5	47758.2	584.4	3139.8	64.3
5.0	44970.2	590.6	3068.6	64.3
5.5	42889.6	596.0	3007.7	64.3
6.0	40931.7	602.7	2952.7	64.3
6.5	39019.5	611.1	2901.5	64.3
7.0	37051.6	620.5	2853.1	64.3
7.5	34780.7	634.6	2806.9	64.3
8.0	33446.9	638.7	2761.4	64.3
8.5	32331.0	640.8	2715.5	64.3
9.0	31052.0	645.1	2671.3	64.3
9.5	29155.0	658.9	2630.5	64.3
10.0	28268.4	658.0	2592.6	64.3
10.5	26079.7	674.7	2558.1	64.3
11.0	24460.6	684.3	2525.7	64.3
11.5	23059.2	691.5	2494.5	64.3
12.0	21437.0	706.1	2464.1	64.3
12.5	19806.6	725.0	2433.7	64.3
13.0	18003.3	753.1	2402.9	64.3
13.5	16039.2	793.8	2372.9	64.3
14.0	14579.2	820.8	2345.0	64.3
14.5	13444.5	835.5	2318.8	64.3
15.0	13221.3	802.5	2293.8	64.3
15.5	12892.1	765.2	2271.0	64.3
16.0	12390.8	730.0	2249.5	64.3
16.5	12503.3	668.0	2228.5	64.3
17.0	12375.5	623.0	2207.9	64.2
17.5	12110.8	585.0	2187.0	64.2
18.0	11010.8	570.6	2165.9	64.2

Table 6.2.1-28 Break Mass and Energy Flow for the Double Ended Guillotine Break Resulting in the Minimum Containment Pressures for use in ECCS Evaluation (Sheet 2 of 22)

Time (sec)	Break Flow		Spilled Flow	
	Mass (lbm/sec)	Enthalpy (Btu/lbm)	Mass (lbm/sec)	Enthalpy (Btu/lbm)
18.5	11644.3	511.1	2145.3	64.2
19.0	10786.8	496.6	2126.0	64.2
19.5	10322.3	462.6	2107.8	64.2
20.0	10356.0	423.4	2090.4	64.2
20.5	10109.6	396.7	2074.4	64.2
21.0	10504.5	372.7	2059.1	64.2
21.5	8535.4	378.4	2044.4	64.2
22.0	7454.1	385.2	2029.9	64.2
22.5	11414.7	300.0	2015.5	64.2
23.0	12889.6	274.9	2000.9	64.2
23.5	7085.4	312.4	1986.1	64.2
24.0	5662.4	331.7	1971.7	64.2
24.5	8567.4	268.1	1958.1	64.2
25.0	8613.6	252.9	1945.3	64.2
25.5	5274.6	307.5	1932.9	64.2
26.0	5512.1	255.0	1920.9	64.2
26.5	8431.9	224.5	1909.3	64.2
27.0	9316.0	212.1	1898.0	64.2
27.5	8428.1	202.2	1887.0	64.2
28.0	4521.1	229.8	1876.1	64.2
28.5	2778.1	253.5	1865.1	64.2
29.0	4791.4	216.9	1853.9	64.2
29.5	6989.0	193.0	1842.7	64.2
30.0	7229.5	175.9	1831.7	64.2
30.5	1686.2	201.9	1821.0	64.2
31.0	182.7	502.6	1810.6	64.2
31.5	168.5	618.6	1800.6	64.2
32.0	990.7	230.2	1790.9	64.2
32.5	70.1	1284.5	1781.5	64.1
33.0	77.0	1284.7	1772.3	64.1
33.5	81.7	1283.5	1763.4	64.1
34.0	82.9	1282.4	1754.5	64.1
34.5	79.8	1282.1	1745.6	64.1
35.0	76.4	1282.8	1736.6	64.1
35.5	51.5	1283.0	808.5	64.1
36.0	32.4	1284.9	525.3	64.1
36.5	48.8	1287.9	421.7	64.1

Table 6.2.1-28 Break Mass and Energy Flow for the Double Ended Guillotine Break Resulting in the Minimum Containment Pressures for use in ECCS Evaluation (Sheet 3 of 22)

Time (sec)	Break Flow		Spilled Flow	
	Mass (lbm/sec)	Enthalpy (Btu/lbm)	Mass (lbm/sec)	Enthalpy (Btu/lbm)
37.0	49.2	1287.7	386.2	64.1
37.5	47.4	1287.2	383.6	64.1
38.0	43.6	1287.0	382.7	64.1
38.5	43.6	1287.7	382.5	64.1
39.0	61.9	1287.7	382.2	64.1
39.5	113.4	1282.7	382.0	64.1
40.0	150.6	1190.6	382.0	64.0
40.5	146.1	853.8	381.2	64.0
41.0	69.1	1282.9	380.6	64.0
41.5	58.9	1283.9	380.2	64.0
42.0	82.8	1286.2	379.8	64.0
42.5	182.9	1225.7	379.7	64.0
43.0	235.4	1015.8	379.3	64.0
43.5	8272.8	154.7	379.0	64.0
44.0	6488.3	155.2	378.9	64.0
44.5	4345.1	171.0	378.1	64.0
45.0	1125.5	284.6	377.6	64.0
45.5	814.3	314.8	377.2	64.0
46.0	528.1	358.5	376.9	64.0
46.5	333.7	540.4	376.9	64.0
47.0	909.4	368.4	376.4	64.0
47.5	2534.9	220.3	376.0	64.0
48.0	4381.9	163.6	375.7	64.0
48.5	4221.9	155.9	375.0	64.0
49.0	2741.0	161.3	374.6	64.0
49.5	2131.6	168.5	374.3	64.0
50.0	1677.2	198.5	374.1	64.0
50.5	2407.1	218.4	374.1	64.0
51.0	2439.6	216.7	373.5	64.0
51.5	6025.7	154.0	373.0	64.0
52.0	7972.8	146.8	372.6	64.0
52.5	6247.4	149.9	372.0	64.0
53.0	4671.4	153.3	371.8	64.0
53.5	3037.5	161.6	371.4	64.0
54.0	2276.9	172.4	371.2	64.0
54.5	1189.9	238.9	371.2	64.0
55.0	2692.1	188.2	370.5	64.0

Table 6.2.1-28 Break Mass and Energy Flow for the Double Ended Guillotine Break Resulting in the Minimum Containment Pressures for use in ECCS Evaluation (Sheet 4 of 22)

Time (sec)	Break Flow		Spilled Flow	
	Mass (lbm/sec)	Enthalpy (Btu/lbm)	Mass (lbm/sec)	Enthalpy (Btu/lbm)
55.5	1511.9	242.1	369.9	64.0
56.0	194.8	740.5	369.5	64.0
56.5	452.7	387.3	369.1	64.0
57.0	790.7	276.8	369.0	64.0
57.5	1185.9	243.7	368.4	64.0
58.0	2448.9	218.1	367.9	64.0
58.5	3002.2	232.9	367.8	64.0
59.0	565.2	621.5	367.3	64.0
59.5	1624.6	276.9	366.7	64.0
60.0	5301.0	209.4	366.6	64.0
60.5	1319.6	342.0	366.2	64.0
61.0	453.6	598.3	365.5	64.0
61.5	440.1	642.5	365.4	64.0
62.0	441.3	618.9	365.1	63.9
62.5	395.8	635.3	364.4	63.9
63.0	386.2	580.5	364.2	63.9
63.5	290.3	639.2	364.0	63.9
64.0	305.6	660.7	363.3	63.9
64.5	391.5	767.0	363.1	63.9
65.0	484.4	655.7	362.9	63.9
65.5	2694.2	252.3	362.3	63.9
66.0	1515.0	330.7	361.9	63.9
66.5	467.5	547.6	361.8	63.9
67.0	395.1	569.0	361.3	63.9
67.5	347.1	617.9	360.8	63.9
68.0	340.0	738.4	360.7	63.9
68.5	374.6	781.6	360.2	63.9
69.0	391.7	672.3	359.7	63.9
69.5	1069.7	324.4	359.7	63.9
70.0	1143.6	337.6	359.3	63.9
70.5	442.4	511.2	358.6	63.9
71.0	316.2	667.5	358.6	63.9
71.5	382.0	719.8	358.3	63.9
72.0	361.3	769.2	357.6	63.9
72.5	423.8	578.7	357.5	63.9
73.0	1320.5	318.6	357.3	63.9
73.5	778.4	385.2	356.6	63.9

Table 6.2.1-28 Break Mass and Energy Flow for the Double Ended Guillotine Break Resulting in the Minimum Containment Pressures for use in ECCS Evaluation (Sheet 5 of 22)

Time (sec)	Break Flow		Spilled Flow	
	Mass (lbm/sec)	Enthalpy (Btu/lbm)	Mass (lbm/sec)	Enthalpy (Btu/lbm)
74.0	398.9	553.0	356.4	63.9
74.5	363.1	660.7	356.3	63.9
75.0	362.8	716.4	355.7	63.9
75.5	357.9	751.3	355.3	63.9
76.0	493.7	527.9	355.3	63.9
76.5	968.8	358.9	354.7	63.9
77.0	647.1	430.2	354.3	63.9
77.5	366.3	601.2	354.3	63.9
78.0	348.0	653.6	353.8	63.9
78.5	373.2	709.1	353.3	63.9
79.0	372.0	701.8	353.3	63.9
79.5	552.5	494.1	352.9	63.9
80.0	742.1	410.3	352.3	63.8
80.5	491.9	502.6	352.2	63.8
81.0	362.2	604.9	352.0	63.8
81.5	367.7	640.6	351.3	63.8
82.0	368.1	718.7	351.2	63.8
82.5	498.0	545.9	351.0	63.8
83.0	1061.8	355.2	350.4	63.8
83.5	845.3	394.1	350.2	63.8
84.0	432.7	563.7	350.1	63.8
84.5	402.3	594.2	349.4	63.8
85.0	417.6	622.3	349.1	63.8
85.5	368.8	688.6	349.1	63.8
86.0	573.0	500.3	348.5	63.8
86.5	524.2	521.9	348.1	63.8
87.0	521.5	511.0	348.0	63.8
87.5	607.6	454.5	347.5	63.8
88.0	619.8	449.6	347.0	63.8
88.5	538.0	497.3	346.9	63.8
89.0	480.3	576.7	346.6	63.8
89.5	426.6	635.3	345.9	63.8
90.0	620.0	495.1	345.8	63.8
90.5	1492.6	297.4	345.5	63.8
91.0	1343.8	329.2	344.9	63.8
91.5	727.7	427.7	344.7	63.8
92.0	588.6	506.7	344.5	63.8

Table 6.2.1-28 Break Mass and Energy Flow for the Double Ended Guillotine Break Resulting in the Minimum Containment Pressures for use in ECCS Evaluation (Sheet 6 of 22)

Time (sec)	Break Flow		Spilled Flow	
	Mass (lbm/sec)	Enthalpy (Btu/lbm)	Mass (lbm/sec)	Enthalpy (Btu/lbm)
92.5	596.5	516.9	343.9	63.8
93.0	667.5	480.0	343.7	63.8
93.5	1009.5	366.9	343.6	63.8
94.0	1462.0	323.1	343.0	63.8
94.5	940.0	387.8	342.6	63.8
95.0	691.6	458.7	342.6	63.8
95.5	705.6	483.0	342.0	63.8
96.0	811.5	435.6	341.6	63.7
96.5	1244.3	342.7	341.6	63.7
97.0	1564.4	316.1	341.2	63.7
97.5	1110.4	364.3	340.6	63.7
98.0	695.6	463.1	340.6	63.7
98.5	655.6	503.8	340.3	63.7
99.0	782.7	454.8	339.7	63.7
99.5	2038.4	279.4	339.6	63.7
100.0	1539.4	323.7	339.4	63.7
100.5	870.6	411.8	338.8	63.7
101.0	707.8	476.1	338.7	63.7
101.5	696.1	490.0	338.5	63.7
102.0	1164.3	357.6	337.9	63.7
102.5	1690.2	312.0	337.7	63.7
103.0	1261.8	347.9	337.6	63.7
103.5	822.7	426.9	337.1	63.7
104.0	731.8	471.5	336.8	63.7
104.5	725.5	471.3	336.8	63.7
105.0	936.2	398.1	336.3	63.7
105.5	1730.6	309.1	335.9	63.7
106.0	1428.2	331.4	335.9	63.7
106.5	845.1	422.3	335.5	63.7
107.0	659.8	488.7	335.0	63.7
107.5	718.2	486.0	335.0	63.7
108.0	848.5	415.3	334.7	63.7
108.5	1798.4	306.6	334.1	63.7
109.0	1303.5	346.1	334.1	63.7
109.5	771.2	432.5	333.9	63.7
110.0	787.8	453.8	333.3	63.7
110.5	761.1	468.0	333.2	63.7

Table 6.2.1-28 Break Mass and Energy Flow for the Double Ended Guillotine Break Resulting in the Minimum Containment Pressures for use in ECCS Evaluation (Sheet 7 of 22)

Time (sec)	Break Flow		Spilled Flow	
	Mass (lbm/sec)	Enthalpy (Btu/lbm)	Mass (lbm/sec)	Enthalpy (Btu/lbm)
111.0	1049.6	375.5	333.1	63.6
111.5	1641.2	312.2	332.5	63.6
112.0	1284.1	346.1	332.3	63.6
112.5	794.6	425.7	332.3	63.6
113.0	696.8	471.8	331.7	63.6
113.5	719.0	468.3	331.5	63.6
114.0	644.6	489.7	331.5	63.6
114.5	933.7	374.5	331.0	63.6
115.0	1550.9	319.8	330.6	63.6
115.5	816.9	417.5	330.6	63.6
116.0	708.4	465.9	330.2	63.6
116.5	726.8	466.4	329.7	63.6
117.0	616.0	510.2	329.7	63.6
117.5	835.9	395.7	329.4	63.6
118.0	1596.1	315.3	328.8	63.6
118.5	931.9	402.8	328.8	63.6
119.0	755.9	446.3	328.5	63.6
119.5	799.1	466.9	327.9	63.6
120.0	1039.7	375.3	327.8	63.6
120.5	1880.9	307.3	327.7	63.6
121.0	1255.2	355.1	327.1	63.6
121.5	1001.4	389.2	326.9	63.6
122.0	1085.7	392.9	326.8	63.6
122.5	925.6	418.4	326.3	63.6
123.0	1127.5	374.7	326.0	63.6
123.5	1189.5	355.4	326.0	63.6
124.0	1377.7	338.5	325.5	63.6
124.5	907.9	419.6	325.2	63.6
125.0	634.9	501.9	325.2	63.6
125.5	1153.9	374.7	324.8	63.6
126.0	780.9	399.5	324.4	63.5
126.5	1831.6	302.0	324.4	63.5
127.0	1450.3	323.4	324.1	63.5
127.5	1344.6	330.1	323.6	63.5
128.0	1357.4	340.5	323.6	63.5
128.5	1225.8	349.8	323.4	63.5
129.0	1393.0	309.8	322.8	63.5

Table 6.2.1-28 Break Mass and Energy Flow for the Double Ended Guillotine Break Resulting in the Minimum Containment Pressures for use in ECCS Evaluation (Sheet 8 of 22)

Time (sec)	Break Flow		Spilled Flow	
	Mass (lbm/sec)	Enthalpy (Btu/lbm)	Mass (lbm/sec)	Enthalpy (Btu/lbm)
129.5	1721.2	300.7	322.7	63.5
130.0	1338.0	324.4	322.6	63.5
130.5	1401.1	321.6	322.1	63.5
131.0	1243.8	343.0	321.9	63.5
131.5	1132.8	341.3	321.9	63.5
132.0	1488.1	306.6	321.4	63.5
132.5	2035.6	271.9	321.1	63.5
133.0	1829.1	295.2	321.1	63.5
133.5	1488.6	312.6	320.6	63.5
134.0	1452.7	315.3	320.3	63.5
134.5	1419.2	325.4	320.3	63.5
135.0	1661.9	289.5	319.9	63.5
135.5	1789.3	292.9	319.5	63.5
136.0	1474.8	311.5	319.5	63.5
136.5	1581.8	322.8	319.2	63.5
137.0	627.4	434.8	318.7	63.5
137.5	1780.2	286.7	318.7	63.5
138.0	1202.9	352.5	318.5	63.5
138.5	1160.6	350.2	317.7	63.5
139.0	1179.1	338.2	317.7	63.5
139.5	2124.3	276.9	317.7	63.5
140.0	1444.4	327.8	317.1	63.5
140.5	856.1	381.3	317.0	63.4
141.0	1384.8	332.9	317.1	63.4
141.5	699.6	422.9	316.6	63.4
142.0	1397.9	319.4	316.3	63.4
142.5	718.2	459.9	316.4	63.4
143.0	1141.2	325.6	316.0	63.4
143.5	1614.3	297.9	315.7	63.4
144.0	1234.0	346.6	315.9	63.4
144.5	616.6	456.8	315.6	63.4
145.0	779.8	435.0	315.2	63.4
145.5	472.9	546.2	315.4	63.4
146.0	886.1	369.0	315.3	63.4
146.5	1154.8	337.0	314.8	63.4
147.0	1536.7	287.5	314.9	63.4
147.5	1725.0	279.9	314.9	63.4

Table 6.2.1-28 Break Mass and Energy Flow for the Double Ended Guillotine Break Resulting in the Minimum Containment Pressures for use in ECCS Evaluation (Sheet 9 of 22)

Time (sec)	Break Flow		Spilled Flow	
	Mass (lbm/sec)	Enthalpy (Btu/lbm)	Mass (lbm/sec)	Enthalpy (Btu/lbm)
148.0	1517.8	316.6	314.0	63.4
148.5	682.6	468.8	314.1	63.4
149.0	617.6	508.6	314.2	63.4
149.5	606.0	475.1	313.7	63.4
150.0	1086.6	330.0	314.0	63.4
150.5	1420.7	291.7	313.8	63.4
151.0	1474.9	299.9	313.3	63.4
151.5	929.2	388.7	313.6	63.4
152.0	556.1	522.5	312.9	63.4
152.5	577.7	520.4	312.7	63.4
153.0	551.1	493.0	312.8	63.4
153.5	889.2	350.9	312.8	63.4
154.0	1700.2	271.0	311.8	63.4
154.5	1376.2	328.9	310.8	63.4
155.0	619.3	489.4	311.0	63.4
155.5	625.8	489.9	310.9	63.4
156.0	605.4	491.1	310.5	63.4
156.5	904.2	352.4	310.3	63.4
157.0	1701.4	261.7	309.6	63.4
157.5	1526.9	286.2	310.3	63.4
158.0	1459.0	305.2	309.7	63.4
158.5	1033.7	384.4	309.3	63.3
159.0	591.4	487.8	308.6	63.3
159.5	1072.3	340.6	307.9	63.3
160.0	1672.2	270.7	307.9	63.3
160.5	1871.2	272.5	308.0	63.3
161.0	1869.9	279.1	307.5	63.3
161.5	1611.6	312.2	307.5	63.3
162.0	795.2	446.8	307.0	63.3
162.5	705.6	445.2	306.5	63.3
163.0	1331.9	315.8	305.2	63.3
163.5	1869.7	277.0	305.0	63.3
164.0	1727.6	288.9	303.7	63.3
164.5	1726.6	301.1	302.3	63.3
165.0	1317.1	348.7	301.0	63.3
165.5	941.3	401.0	298.7	63.3
166.0	1131.7	346.5	297.3	63.3

Table 6.2.1-28 Break Mass and Energy Flow for the Double Ended Guillotine Break Resulting in the Minimum Containment Pressures for use in ECCS Evaluation (Sheet 10 of 22)

Time (sec)	Break Flow		Spilled Flow	
	Mass (lbm/sec)	Enthalpy (Btu/lbm)	Mass (lbm/sec)	Enthalpy (Btu/lbm)
166.5	1671.1	297.3	295.1	63.3
167.0	1573.4	308.9	292.9	63.3
167.5	1544.7	310.8	291.4	63.3
168.0	1977.9	284.9	288.5	63.4
168.5	1692.7	310.3	283.4	63.4
169.0	1131.6	369.4	282.3	63.4
169.5	1035.4	364.1	281.1	63.4
170.0	1528.1	312.1	277.5	63.4
170.5	1330.7	335.1	273.9	63.4
171.0	1224.6	338.6	271.5	63.4
171.5	1390.8	325.9	269.3	63.4
172.0	1169.9	351.2	266.4	63.4
172.5	1197.4	336.5	263.4	63.4
173.0	1388.0	316.1	260.6	63.4
173.5	1302.4	331.8	258.2	63.4
174.0	1288.2	326.9	255.7	63.4
174.5	1618.7	298.9	253.2	63.5
175.0	1417.4	322.7	250.7	63.5
175.5	782.6	451.7	248.5	63.5
176.0	695.3	429.2	246.4	63.5
176.5	1337.2	316.6	244.5	63.5
177.0	1366.5	335.0	242.8	63.5
177.5	558.1	522.0	241.2	63.5
178.0	939.4	364.3	239.9	63.5
178.5	1277.8	328.8	238.8	63.6
179.0	914.1	391.4	238.1	63.6
179.5	956.5	359.5	237.7	63.6
180.0	1472.3	296.2	237.8	63.6
180.5	1398.3	318.2	238.2	63.6
181.0	954.7	378.0	239.2	63.7
181.5	1188.3	324.6	240.8	63.7
182.0	1615.8	299.8	243.1	63.7
182.5	1243.8	338.3	246.1	63.7
183.0	1067.6	364.4	250.1	63.8
183.5	1319.4	316.9	255.2	63.8
184.0	1710.9	295.4	261.5	63.9
184.5	1180.8	364.0	269.3	63.9

Table 6.2.1-28 Break Mass and Energy Flow for the Double Ended Guillotine Break Resulting in the Minimum Containment Pressures for use in ECCS Evaluation (Sheet 11 of 22)

Time (sec)	Break Flow		Spilled Flow	
	Mass (lbm/sec)	Enthalpy (Btu/lbm)	Mass (lbm/sec)	Enthalpy (Btu/lbm)
185.0	535.6	530.9	278.7	63.9
185.5	979.3	362.2	290.1	64.0
186.0	1281.2	333.4	303.4	64.1
186.5	760.8	457.1	319.0	64.2
187.0	775.0	397.5	336.6	64.3
187.5	1449.9	299.7	355.6	64.5
188.0	1379.9	322.2	374.6	64.7
188.5	795.9	423.1	390.7	65.0
189.0	960.3	357.0	398.6	65.5
189.5	1475.2	300.1	390.7	66.5
190.0	1396.3	315.2	358.6	68.2
190.5	1076.7	360.4	298.0	71.8
191.0	954.7	371.2	216.8	79.5
191.5	1181.2	341.3	137.9	93.1
192.0	928.8	405.1	95.4	108.3
192.5	551.9	505.7	102.2	112.7
193.0	1125.1	332.4	112.9	114.1
193.5	1313.6	330.2	121.6	117.2
194.0	854.6	412.8	123.8	123.5
194.5	927.8	379.9	118.1	134.7
195.0	900.6	395.2	106.4	152.3
195.5	970.3	368.1	92.1	177.9
196.0	1203.8	339.1	78.0	212.6
196.5	952.8	390.7	65.8	256.6
197.0	901.3	384.0	55.9	309.6
197.5	1239.0	322.2	48.0	369.9
198.0	1334.6	344.5	41.8	435.4
198.5	549.8	555.8	36.9	503.5
199.0	799.5	429.9	33.1	571.1
199.5	775.6	427.9	30.2	635.2
200.0	933.2	387.3	27.9	693.5
200.5	1015.7	388.9	26.1	744.5
201.0	613.0	551.1	24.8	787.7
201.5	520.9	539.0	23.7	823.2
202.0	806.3	392.1	22.9	851.6
202.5	1123.5	338.9	22.2	874.1
203.0	1151.9	352.1	21.7	891.4

Table 6.2.1-28 Break Mass and Energy Flow for the Double Ended Guillotine Break Resulting in the Minimum Containment Pressures for use in ECCS Evaluation (Sheet 12 of 22)

Time (sec)	Break Flow		Spilled Flow	
	Mass (lbm/sec)	Enthalpy (Btu/lbm)	Mass (lbm/sec)	Enthalpy (Btu/lbm)
203.5	752.1	489.9	16.3	902.4
204.0	605.7	466.2	15.8	910.7
204.5	973.4	350.0	15.7	917.5
205.0	1174.8	337.8	15.5	923.1
205.5	631.4	521.0	15.5	927.8
206.0	770.5	474.1	15.3	931.7
206.5	450.8	628.2	15.1	934.6
207.0	546.1	519.6	15.0	937.1
207.5	771.8	424.1	14.9	938.8
208.0	538.8	560.8	14.8	939.8
208.5	588.1	532.1	14.7	940.3
209.0	567.8	562.0	14.6	940.4
209.5	413.5	642.9	14.5	940.2
210.0	639.3	500.0	14.4	940.0
210.5	477.7	579.8	14.3	939.6
211.0	492.4	567.8	14.3	939.2
211.5	562.8	525.7	14.2	938.7
212.0	507.5	549.4	14.1	938.1
212.5	461.2	588.1	14.0	937.6
213.0	401.3	629.6	13.9	937.0
213.5	465.2	556.8	13.9	936.4
214.0	458.5	555.8	13.8	935.8
214.5	436.1	550.7	13.7	935.2
215.0	463.5	486.8	13.6	934.6
215.5	680.1	363.3	13.6	934.0
216.0	1369.1	258.9	13.5	933.4
216.5	1185.4	318.3	13.4	932.8
217.0	677.3	428.3	13.3	932.2
217.5	516.0	518.9	13.3	931.6
218.0	535.6	520.6	13.2	931.0
218.5	907.8	361.2	13.1	930.5
219.0	1715.6	263.9	13.1	929.9
219.5	784.2	477.2	13.0	929.4
220.0	433.9	720.6	12.9	928.8
220.5	372.3	778.5	12.8	928.3
221.0	1141.0	361.0	12.8	927.8
221.5	583.4	607.1	12.7	927.3

Table 6.2.1-28 Break Mass and Energy Flow for the Double Ended Guillotine Break Resulting in the Minimum Containment Pressures for use in ECCS Evaluation (Sheet 13 of 22)

Time (sec)	Break Flow		Spilled Flow	
	Mass (lbm/sec)	Enthalpy (Btu/lbm)	Mass (lbm/sec)	Enthalpy (Btu/lbm)
222.0	449.6	768.0	12.6	926.8
222.5	439.0	817.5	12.5	926.3
223.0	443.9	807.2	12.5	925.8
223.5	407.2	888.3	12.4	925.4
224.0	405.7	893.6	12.3	924.9
224.5	405.1	917.8	12.2	924.5
225.0	381.1	948.7	12.2	924.1
225.5	614.6	644.0	12.1	923.6
226.0	637.6	623.5	12.0	923.2
226.5	689.7	600.3	12.0	922.8
227.0	525.4	765.1	11.9	922.4
227.5	686.8	571.3	11.8	922.0
228.0	795.8	522.9	11.7	921.6
228.5	833.0	493.2	11.7	921.2
229.0	946.6	442.8	11.6	920.9
229.5	954.7	462.5	11.5	920.5
230.0	844.0	535.3	11.5	920.2
230.5	786.0	520.4	11.4	919.8
231.0	985.5	450.7	11.3	919.5
231.5	792.1	558.5	11.3	919.1
232.0	757.1	566.0	11.2	918.8
232.5	971.7	460.5	11.1	918.5
233.0	737.6	604.3	11.0	918.2
233.5	911.3	470.8	11.0	917.9
234.0	812.8	519.4	10.9	917.6
234.5	708.7	629.9	10.8	917.3
235.0	777.1	549.2	10.8	917.0
235.5	768.5	542.6	10.7	916.7
236.0	1006.0	409.3	10.6	916.4
236.5	1045.7	465.5	10.6	916.1
237.0	781.5	566.1	10.5	915.8
237.5	808.9	543.6	10.4	915.6
238.0	809.6	553.4	10.4	915.3
238.5	968.4	463.0	10.3	915.1
239.0	956.6	495.4	10.2	914.8
239.5	1063.5	436.2	10.2	914.6
240.0	1154.7	419.7	10.1	914.3

Table 6.2.1-28 Break Mass and Energy Flow for the Double Ended Guillotine Break Resulting in the Minimum Containment Pressures for use in ECCS Evaluation (Sheet 14 of 22)

Time (sec)	Break Flow		Spilled Flow	
	Mass (lbm/sec)	Enthalpy (Btu/lbm)	Mass (lbm/sec)	Enthalpy (Btu/lbm)
240.5	1213.1	405.1	10.1	914.1
241.0	1157.4	433.8	10.0	913.9
241.5	1164.3	429.6	9.9	913.6
242.0	1268.7	408.8	9.9	913.4
242.5	1128.5	442.3	9.8	913.2
243.0	1359.2	382.0	9.7	913.0
243.5	1211.8	430.8	9.7	912.7
244.0	1190.3	437.0	9.6	912.5
244.5	1309.1	396.8	9.5	912.3
245.0	1323.1	398.1	9.5	912.1
245.5	1292.2	418.9	9.4	911.9
246.0	961.4	518.1	9.4	911.7
246.5	1180.0	438.8	9.3	911.5
247.0	1154.6	445.9	9.2	911.3
247.5	1039.7	475.7	9.2	911.2
248.0	1048.5	471.1	9.1	911.0
248.5	1107.5	436.7	9.1	910.8
249.0	1149.2	435.2	9.0	910.6
249.5	612.8	666.8	8.9	910.4
250.0	1142.9	447.2	8.9	910.3
250.5	716.0	607.1	8.8	910.1
251.0	824.9	551.5	8.8	909.9
251.5	749.5	569.8	8.7	909.8
252.0	717.7	613.1	8.6	909.6
252.5	647.4	638.3	8.6	909.5
253.0	597.4	699.3	8.5	909.3
253.5	505.5	796.5	8.5	909.1
254.0	484.8	825.9	8.4	909.0
254.5	446.1	860.2	8.3	908.8
255.0	254.6	1218.5	8.3	908.7
255.5	251.3	1209.8	8.2	908.6
256.0	247.0	1211.9	8.2	908.4
256.5	262.7	1188.2	8.1	908.3
257.0	440.0	891.6	8.1	908.1
257.5	380.4	931.0	8.0	908.0
258.0	293.2	1140.6	8.0	907.9
258.5	365.1	984.0	7.9	907.7

Table 6.2.1-28 Break Mass and Energy Flow for the Double Ended Guillotine Break Resulting in the Minimum Containment Pressures for use in ECCS Evaluation (Sheet 15 of 22)

Time (sec)	Break Flow		Spilled Flow	
	Mass (lbm/sec)	Enthalpy (Btu/lbm)	Mass (lbm/sec)	Enthalpy (Btu/lbm)
259.0	977.8	411.0	7.8	907.6
259.5	250.5	1213.1	7.8	907.5
260.0	247.3	1209.1	7.7	907.4
260.5	236.1	1202.6	7.7	907.2
261.0	369.1	918.0	7.6	907.1
261.5	312.0	1034.3	7.6	907.0
262.0	222.8	1207.4	7.5	906.9
262.5	336.0	1042.3	7.5	906.8
263.0	924.2	420.0	7.4	906.6
263.5	241.7	1172.7	7.4	906.5
264.0	229.7	1215.4	7.3	906.4
264.5	236.3	1183.4	7.3	906.3
265.0	376.5	907.8	7.2	906.2
265.5	291.1	1028.1	7.2	906.1
266.0	212.7	1210.4	7.1	906.0
266.5	343.8	979.9	7.1	905.9
267.0	235.4	1197.2	7.0	905.8
267.5	227.8	1214.5	7.0	905.7
268.0	221.6	1213.3	6.9	905.6
268.5	295.1	1072.8	6.9	905.5
269.0	342.3	951.0	6.8	905.4
269.5	310.6	972.4	6.8	905.3
270.0	221.3	1185.4	6.7	905.2
270.5	306.2	1053.1	6.7	905.1
271.0	219.2	1220.2	6.6	905.0
271.5	226.9	1215.6	6.6	904.9
272.0	212.9	1214.3	6.5	904.9
272.5	316.9	976.4	6.5	904.8
273.0	367.8	870.8	6.4	904.7
273.5	488.0	733.4	6.4	904.6
274.0	272.0	1122.1	6.3	904.5
274.5	441.7	798.5	6.3	904.4
275.0	208.6	1226.7	6.2	904.4
275.5	208.4	1219.3	6.2	904.3
276.0	213.1	1187.1	6.1	904.2
276.5	279.1	980.9	6.1	904.1
277.0	309.1	932.3	6.0	904.1

Table 6.2.1-28 Break Mass and Energy Flow for the Double Ended Guillotine Break Resulting in the Minimum Containment Pressures for use in ECCS Evaluation (Sheet 16 of 22)

Time (sec)	Break Flow		Spilled Flow	
	Mass (lbm/sec)	Enthalpy (Btu/lbm)	Mass (lbm/sec)	Enthalpy (Btu/lbm)
277.5	354.3	887.2	6.0	904.0
278.0	291.6	1034.3	5.9	903.9
278.5	234.7	1147.6	5.9	903.8
279.0	213.3	1180.5	5.9	903.8
279.5	201.2	1219.6	5.8	903.7
280.0	212.4	1175.8	5.8	903.6
280.5	290.0	953.5	5.7	903.6
281.0	278.9	986.0	5.7	903.5
281.5	308.5	1025.1	5.6	903.4
282.0	284.4	1039.4	5.6	903.4
282.5	432.4	671.2	5.5	903.3
283.0	334.9	901.3	5.5	903.2
283.5	197.0	1234.6	5.5	903.2
284.0	199.9	1204.0	5.4	903.1
284.5	232.1	1073.8	5.4	903.0
285.0	262.3	1012.9	5.3	903.0
285.5	332.4	887.5	5.3	902.9
286.0	224.5	1147.1	5.2	902.9
286.5	215.4	1183.2	5.2	902.8
287.0	203.9	1221.2	5.2	902.8
287.5	191.3	1218.7	5.1	902.7
288.0	208.2	1150.5	5.1	902.6
288.5	262.0	1005.8	5.0	902.6
289.0	577.6	543.5	5.0	902.5
289.5	214.7	1072.3	4.9	902.5
290.0	201.6	1226.7	4.9	902.4
290.5	194.6	1220.4	4.9	902.4
291.0	192.9	1221.8	4.8	902.3
291.5	189.6	1214.7	4.8	902.3
292.0	245.5	1047.6	4.7	902.2
292.5	339.6	795.7	4.7	902.2
293.0	508.1	602.3	4.6	902.2
293.5	238.7	1145.1	4.6	902.1
294.0	217.2	1179.3	4.6	902.1
294.5	197.7	1220.2	4.5	902.0
295.0	185.7	1221.3	4.5	902.0
295.5	197.7	1171.7	4.4	901.9

Table 6.2.1-28 Break Mass and Energy Flow for the Double Ended Guillotine Break Resulting in the Minimum Containment Pressures for use in ECCS Evaluation (Sheet 17 of 22)

Time (sec)	Break Flow		Spilled Flow	
	Mass (lbm/sec)	Enthalpy (Btu/lbm)	Mass (lbm/sec)	Enthalpy (Btu/lbm)
296.0	249.9	1028.5	4.4	901.9
296.5	423.1	668.0	4.3	901.9
297.0	262.9	1014.1	4.3	901.8
297.5	225.4	1148.6	4.3	901.8
298.0	196.0	1218.0	4.2	901.7
298.5	194.5	1223.5	4.2	901.7
299.0	186.4	1222.6	4.1	901.7
299.5	258.1	1011.0	4.1	901.6
300.0	290.7	940.6	4.1	901.6
300.5	381.6	752.1	4.0	901.6
301.0	228.1	1175.2	4.0	901.5
301.5	262.0	1118.9	3.9	901.5
302.0	259.7	1034.3	3.9	901.5
302.5	182.6	1232.8	3.9	901.4
303.0	181.6	1225.5	3.8	901.4
303.5	239.1	1040.4	3.8	901.4
304.0	348.2	770.3	3.7	901.3
304.5	328.0	881.1	3.7	901.3
305.0	243.3	1097.0	3.7	901.3
305.5	212.9	1152.0	3.6	901.2
306.0	193.6	1228.9	3.6	901.2
306.5	183.8	1223.5	3.6	901.2
307.0	206.4	1155.7	3.5	901.2
307.5	246.0	1024.9	3.5	901.1
308.0	330.0	819.0	3.4	901.1
308.5	232.4	1033.6	3.4	901.1
309.0	193.8	1230.5	3.4	901.0
309.5	194.9	1229.0	3.3	901.0
310.0	187.9	1225.1	3.3	901.0
310.5	181.7	1225.7	3.2	901.0
311.0	223.9	1089.9	3.2	900.9
311.5	248.8	993.8	3.2	900.9
312.0	403.7	773.2	3.1	900.9
312.5	227.9	1130.1	3.1	900.9
313.0	327.6	881.5	3.1	900.8
313.5	254.0	1042.1	3.0	900.8
314.0	177.9	1233.7	3.0	900.8

Table 6.2.1-28 Break Mass and Energy Flow for the Double Ended Guillotine Break Resulting in the Minimum Containment Pressures for use in ECCS Evaluation (Sheet 18 of 22)

Time (sec)	Break Flow		Spilled Flow	
	Mass (lbm/sec)	Enthalpy (Btu/lbm)	Mass (lbm/sec)	Enthalpy (Btu/lbm)
314.5	172.2	1228.3	3.0	900.8
315.0	211.1	1119.5	2.9	900.8
315.5	231.8	1027.2	2.9	900.7
316.0	192.9	1158.1	2.8	900.7
316.5	198.8	1219.0	2.8	900.7
317.0	187.6	1221.1	2.8	900.7
317.5	187.9	1229.7	2.7	900.7
318.0	176.2	1227.2	2.7	900.6
318.5	191.9	1180.8	2.7	900.6
319.0	231.6	1063.2	2.6	900.6
319.5	330.3	803.7	2.6	900.6
320.0	212.1	1183.0	2.5	900.6
320.5	198.5	1226.4	2.5	900.5
321.0	190.5	1227.0	2.5	900.5
321.5	184.0	1228.1	2.5	900.5
322.0	176.5	1226.2	2.4	900.5
322.5	224.8	1099.8	2.4	900.5
323.0	269.8	925.2	2.4	900.4
323.5	229.8	1002.8	2.3	900.4
324.0	205.0	1200.4	2.3	900.4
324.5	707.4	552.0	2.3	900.4
325.0	191.8	1234.9	2.3	900.4
325.5	185.7	1228.8	2.2	900.4
326.0	180.3	1215.5	2.2	900.3
326.5	231.8	1080.0	2.2	900.3
327.0	290.3	899.0	2.1	900.3
327.5	226.8	1179.5	2.1	900.3
328.0	247.5	1147.8	2.1	900.3
328.5	266.3	1032.3	2.0	900.2
329.0	197.1	1236.5	2.0	900.2
329.5	190.9	1230.5	2.0	900.2
330.0	183.6	1221.5	2.0	900.2
330.5	245.9	1060.5	1.9	900.2
331.0	435.1	734.4	1.9	900.2
331.5	229.2	1160.7	1.9	900.1
332.0	300.6	983.5	1.8	900.1
332.5	197.1	1237.2	1.8	900.1

Table 6.2.1-28 Break Mass and Energy Flow for the Double Ended Guillotine Break Resulting in the Minimum Containment Pressures for use in ECCS Evaluation (Sheet 19 of 22)

Time (sec)	Break Flow		Spilled Flow	
	Mass (lbm/sec)	Enthalpy (Btu/lbm)	Mass (lbm/sec)	Enthalpy (Btu/lbm)
333.0	201.4	1231.6	1.8	900.1
333.5	194.3	1228.0	1.8	900.1
334.0	226.5	1097.0	1.7	900.1
334.5	300.1	912.5	1.7	900.1
335.0	220.8	1128.2	1.7	900.1
335.5	218.6	1187.0	1.6	900.1
336.0	441.2	769.4	1.6	900.1
336.5	198.1	1238.5	1.6	900.1
337.0	198.3	1233.0	1.6	900.1
337.5	205.8	1185.5	1.5	900.1
338.0	260.7	1005.2	1.5	900.1
338.5	248.5	1022.9	1.5	900.1
339.0	221.2	1179.8	1.5	900.1
339.5	407.7	757.8	1.4	900.1
340.0	292.1	973.2	1.4	900.1
340.5	203.3	1219.9	1.4	900.1
341.0	198.1	1234.1	1.4	900.1
341.5	192.8	1230.0	1.3	900.1
342.0	234.3	1100.1	1.3	900.1
342.5	252.3	1013.5	1.3	900.1
343.0	228.7	1086.3	1.2	900.2
343.5	204.2	1231.6	1.2	900.2
344.0	271.7	1046.6	1.2	900.2
344.5	506.0	702.5	1.2	900.2
345.0	206.3	1224.6	1.1	900.2
345.5	193.8	1232.8	1.1	900.2
346.0	186.5	1231.7	1.1	900.2
346.5	231.5	1108.0	1.1	900.2
347.0	289.1	948.2	1.0	900.2
347.5	209.7	1190.3	1.0	900.2
348.0	405.2	808.1	1.0	900.2
348.5	411.2	734.7	1.0	900.2
349.0	203.2	1229.7	1.0	900.2
349.5	201.9	1234.9	0.9	900.2
350.0	190.5	1231.0	0.9	900.2
350.5	222.0	1122.7	0.9	900.2
351.0	236.0	1089.2	0.9	900.2

Table 6.2.1-28 Break Mass and Energy Flow for the Double Ended Guillotine Break Resulting in the Minimum Containment Pressures for use in ECCS Evaluation (Sheet 20 of 22)

Time (sec)	Break Flow		Spilled Flow	
	Mass (lbm/sec)	Enthalpy (Btu/lbm)	Mass (lbm/sec)	Enthalpy (Btu/lbm)
351.5	296.6	912.2	0.8	900.2
352.0	271.0	1082.0	0.8	900.2
352.5	335.8	904.5	0.8	900.2
353.0	306.6	983.5	0.8	900.2
353.5	199.4	1236.6	0.8	900.2
354.0	197.1	1234.8	0.7	900.2
354.5	224.7	1154.8	0.7	900.2
355.0	282.5	932.7	0.7	900.3
355.5	223.8	1123.4	0.7	900.3
356.0	288.9	1061.9	0.6	900.3
356.5	268.7	1043.5	0.6	900.3
357.0	654.8	609.6	0.6	900.3
357.5	205.5	1233.1	0.6	900.3
358.0	205.3	1232.8	0.6	900.3
358.5	215.5	1181.9	0.5	900.3
359.0	237.6	1057.9	0.5	900.3
359.5	255.7	1017.9	0.5	900.3
360.0	232.2	1170.6	0.5	900.3
360.5	364.2	867.0	0.5	900.3
361.0	987.3	421.3	0.5	900.3
361.5	210.5	1227.4	0.4	900.3
362.0	207.2	1229.4	0.4	900.3
362.5	205.1	1232.8	0.4	900.3
363.0	211.0	1183.8	0.4	900.3
363.5	230.0	1073.6	0.4	900.3
364.0	209.5	1207.5	0.4	900.3
364.5	216.1	1208.2	0.4	900.3
365.0	207.3	1235.3	0.3	900.3
365.5	208.2	1234.9	0.3	900.3
366.0	203.3	1235.0	0.3	900.3
366.5	192.5	1233.1	0.3	900.3
367.0	228.5	1112.1	0.3	900.3
367.5	195.8	1232.6	0.3	900.4
368.0	207.2	1234.2	0.3	900.4
368.5	210.3	1234.7	0.3	900.4
369.0	206.5	1236.3	0.3	900.4
369.5	193.3	1234.1	0.3	900.4

Table 6.2.1-28 Break Mass and Energy Flow for the Double Ended Guillotine Break Resulting in the Minimum Containment Pressures for use in ECCS Evaluation (Sheet 21 of 22)

Time (sec)	Break Flow		Spilled Flow	
	Mass (lbm/sec)	Enthalpy (Btu/lbm)	Mass (lbm/sec)	Enthalpy (Btu/lbm)
370.0	190.2	1234.4	0.3	900.4
370.5	186.5	1233.1	0.3	900.4
371.0	232.1	1134.3	0.3	900.4
371.5	210.8	1235.7	0.3	900.4
372.0	211.5	1233.8	0.2	900.4
372.5	210.1	1235.7	0.2	900.4
373.0	197.0	1233.0	0.2	900.4
373.5	184.0	1233.4	0.2	900.4
374.0	210.8	1234.8	0.2	900.4
374.5	218.3	1234.1	0.2	900.4
375.0	220.1	1233.7	0.2	900.4
375.5	215.8	1231.5	0.2	900.4
376.0	214.6	1231.1	0.2	900.4
376.5	197.7	1228.0	0.2	900.4
377.0	219.1	1231.2	0.2	900.4
377.5	214.2	1228.6	0.2	900.4
378.0	226.4	1230.0	0.2	900.4
378.5	227.2	1228.8	0.2	900.4
379.0	216.0	1227.8	0.2	900.4
379.5	232.2	1229.2	0.2	900.5
380.0	224.9	1226.1	0.2	900.5
380.5	215.1	1226.5	0.2	900.5
381.0	239.9	1226.6	0.2	900.5
381.5	232.8	1225.3	0.2	900.5
382.0	231.0	1225.5	0.2	900.5
382.5	227.7	1225.5	0.2	900.5
383.0	237.0	1226.3	0.2	900.5
383.5	227.8	1224.3	0.2	900.5
384.0	236.5	1220.6	0.2	900.5
384.5	238.0	1226.1	0.2	900.5
385.0	242.5	1221.9	0.2	900.5
385.5	236.8	1224.4	0.2	900.5
386.0	240.9	1224.5	0.2	900.5
386.5	242.2	1225.1	0.2	900.5
387.0	235.0	1224.9	0.2	900.5
387.5	240.7	1226.3	0.2	900.5
388.0	236.0	1225.2	0.2	900.5

Table 6.2.1-28 Break Mass and Energy Flow for the Double Ended Guillotine Break Resulting in the Minimum Containment Pressures for use in ECCS Evaluation (Sheet 22 of 22)

Time (sec)	Break Flow		Spilled Flow	
	Mass (lbm/sec)	Enthalpy (Btu/lbm)	Mass (lbm/sec)	Enthalpy (Btu/lbm)
388.5	237.3	1221.9	0.2	900.5
389.0	246.9	1226.9	0.2	900.5
389.5	236.4	1225.8	0.2	900.5
390.0	241.2	1227.7	0.2	900.5
390.5	234.0	1227.4	0.2	900.5
391.0	242.6	1229.4	0.2	900.5
391.5	232.9	1228.8	0.2	900.6
392.0	226.5	1229.4	0.2	900.6
392.5	251.4	1217.1	0.2	900.6
393.0	239.5	1231.0	0.2	900.6
393.5	232.9	1230.9	0.2	900.6
394.0	241.3	1232.0	0.2	900.6
394.5	228.7	1230.1	0.2	900.6
395.0	249.6	1232.5	0.2	900.6
395.5	241.5	1229.4	0.2	900.6
396.0	239.6	1229.3	0.2	900.6
396.5	245.9	1229.0	0.2	900.6
397.0	248.8	1227.7	0.2	900.6
397.5	242.9	1225.4	0.2	900.6
398.0	245.9	1224.0	0.2	900.6
398.5	245.1	1222.9	0.2	900.6
399.0	259.7	1209.5	0.2	900.6
399.5	254.0	1217.8	0.2	900.6