

WCAP8651 - Flecht Cosine Test Data Report - Parts 1 - 4

This report is archived in ADAMS in 4 ML numbers with the following sequence:

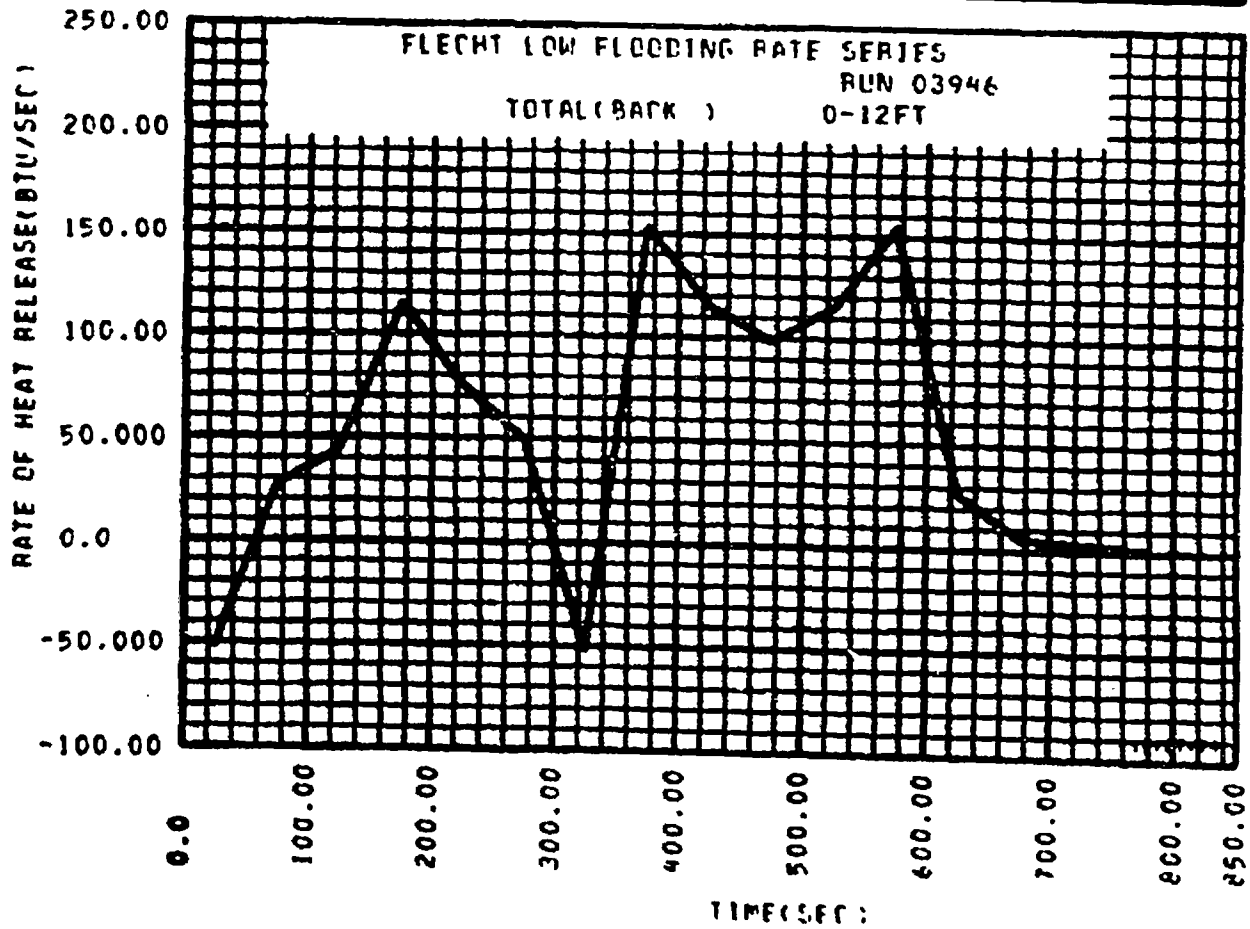
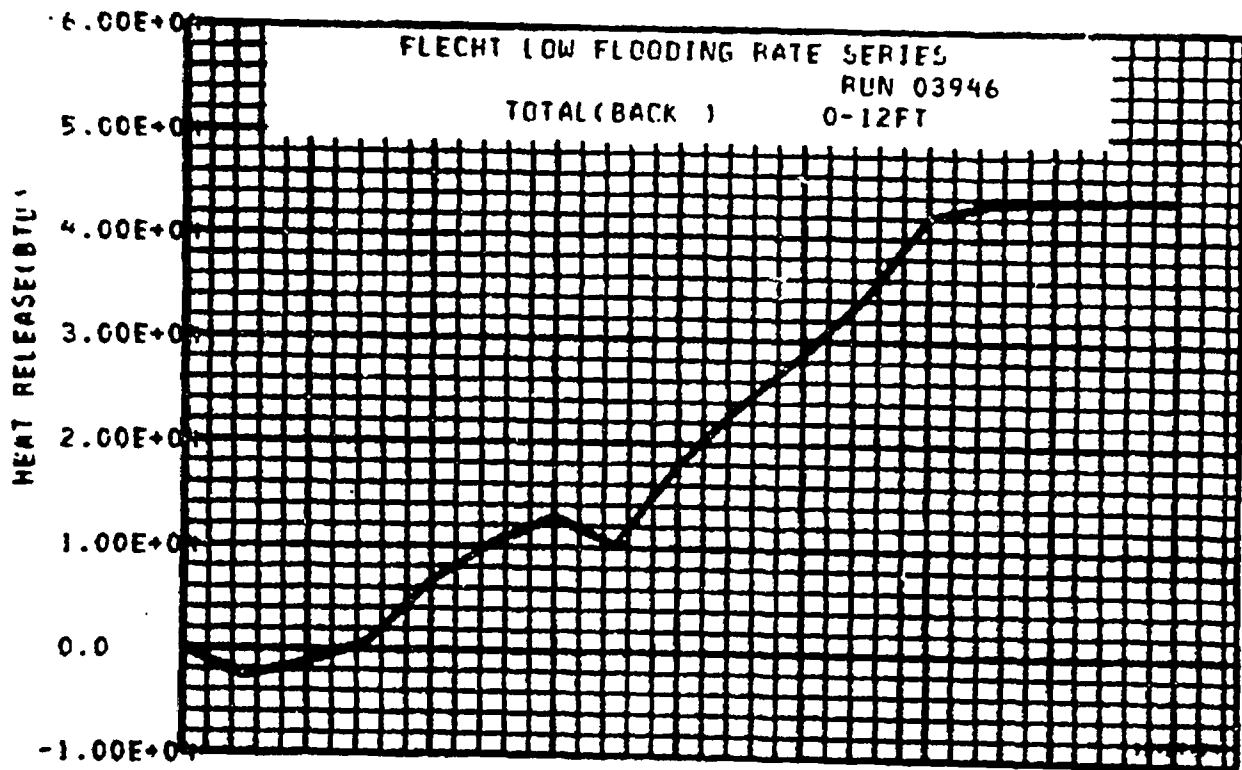
ML050380247 for the first part of the report,

ML050380208 for the second part of the report,

ML050380261 for the third part of the report, and

ML050380146 for the last part of the report.

**FLECHT Low Flooding Rate Cosine Test Series Data Report
Appendix E, Section 2**



FLECHT - LOW FLOODING RATE TEST

SUMMARY SHEET

COSINE AXIAL POWER PROFILE

RUN NO. 04019

DATE: 4/22/75

A. RUN CONDITIONS

Upper Plenum Pressure, psia	<u>39</u>	
Initial Clad Temperature (6 Ft)°F At Flood	<u>1,602</u>	Rod T/C <u>4B6</u>
Rod Peak Power, kw/ft	<u>0.89</u>	
Flooding Rate, in/sec	<u>1.6 (5 sec)</u>	
	<u>1.5</u>	
	<u>-----</u>	
Coolant Temperature, °F	<u>131</u>	
Bundle Radial Power Profile	<u>FLECHT</u>	
Disconnected Rods	<u>7F</u>	

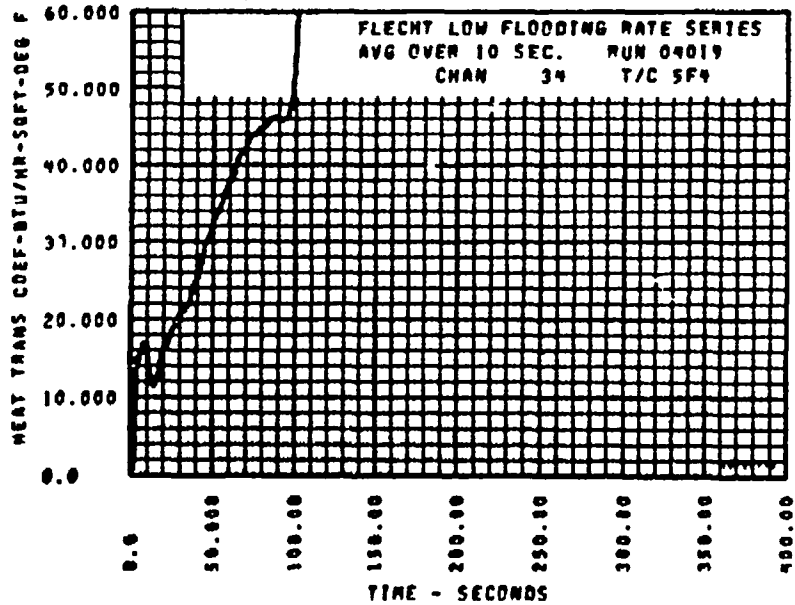
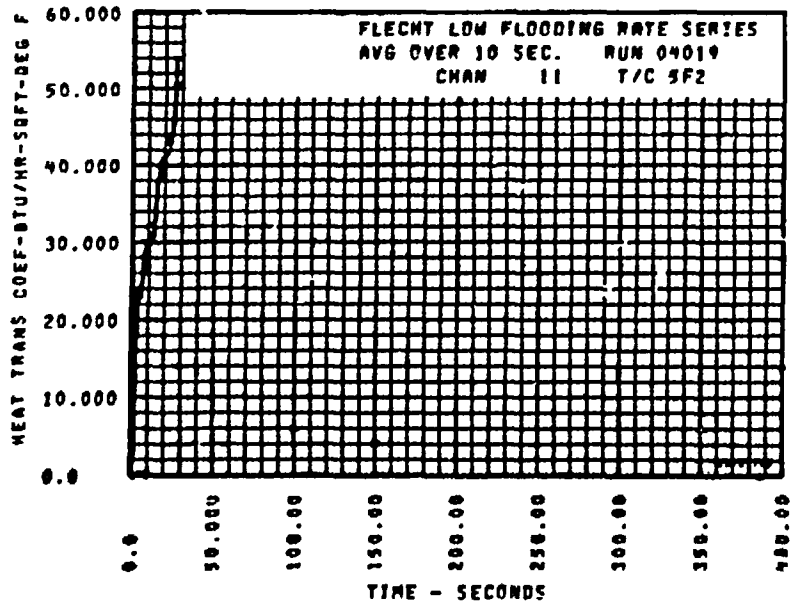
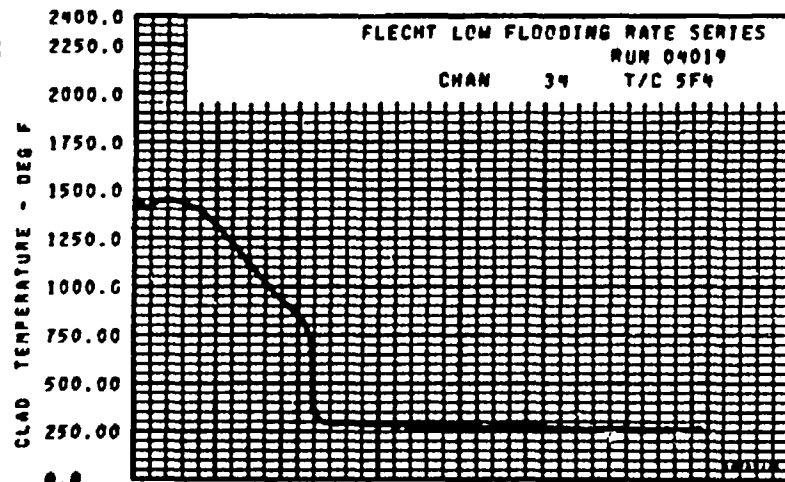
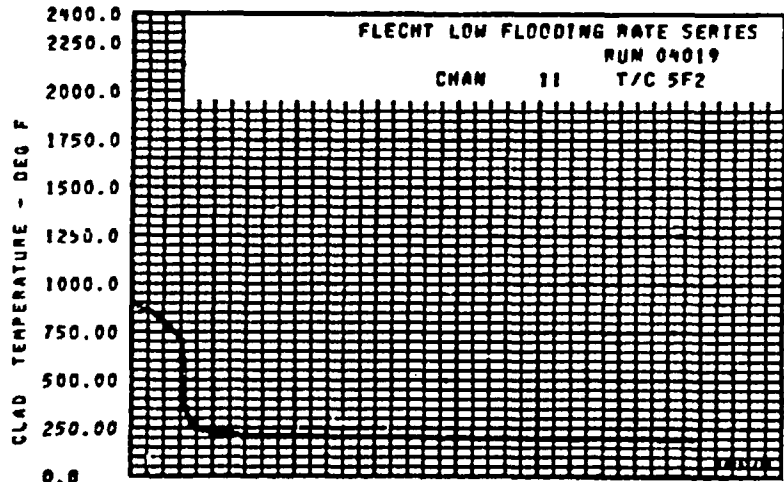
B. INITIAL HOUSING TEMPERATURE

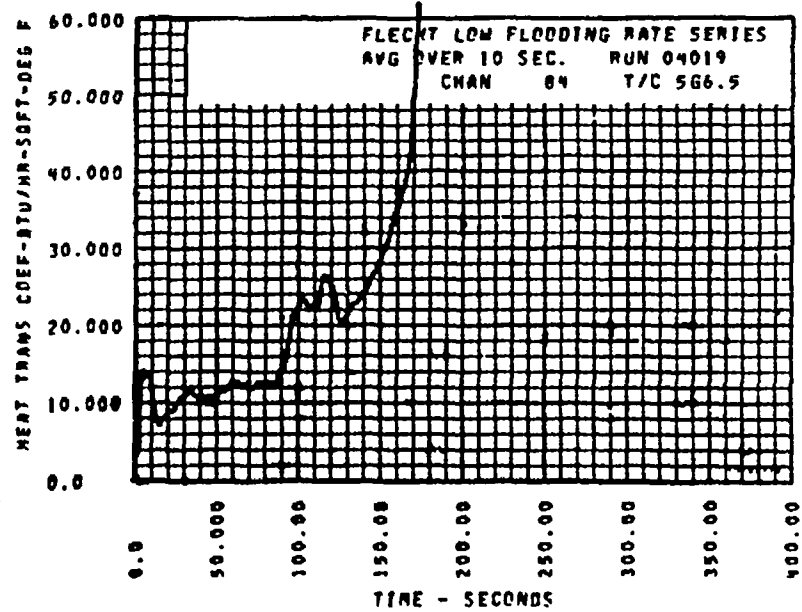
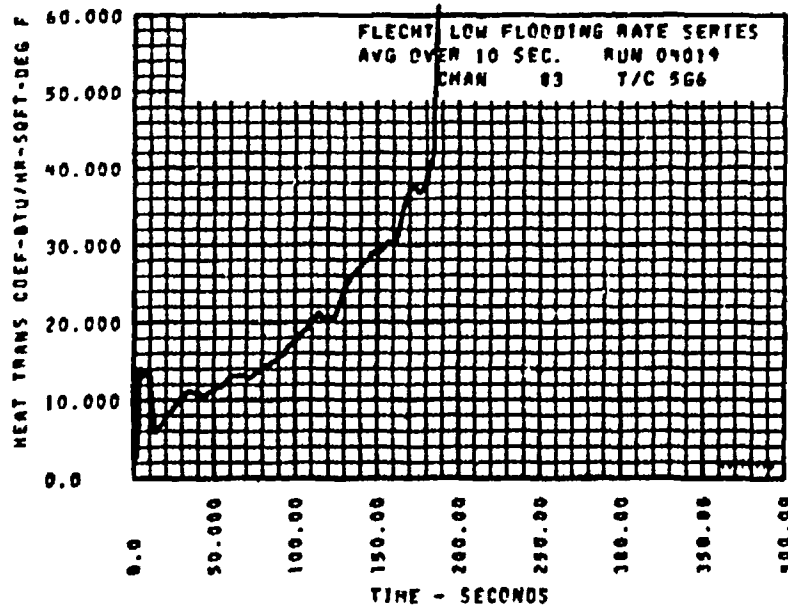
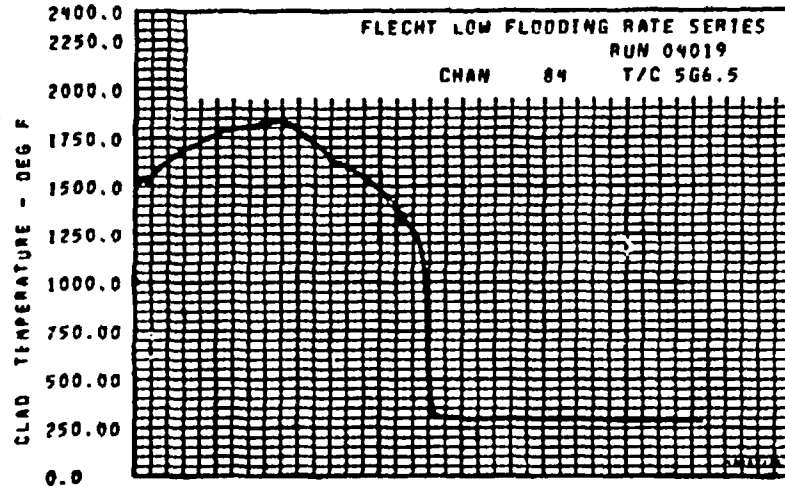
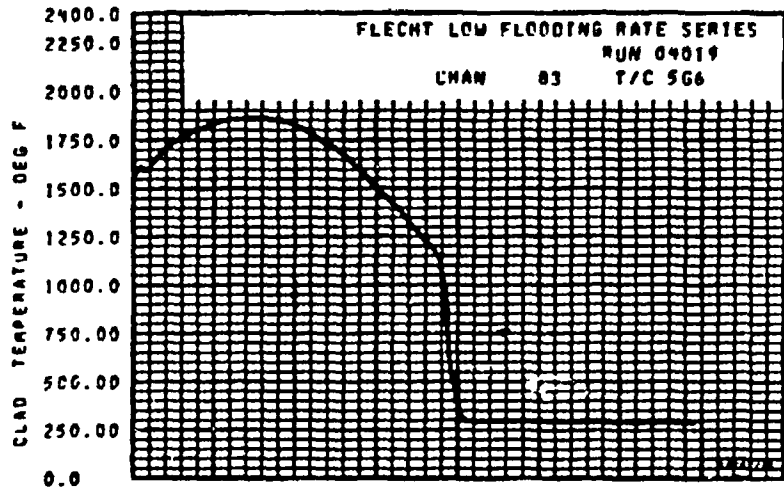
Back Side Elevation, Ft.	Temperature, °F
0	<u>259</u>
2	<u>429</u>
4	<u>573</u>
5.5	<u>659</u>
6	<u>652</u>
6.5	<u>539</u>
7	<u>532</u>
7.5	<u>533</u>
8	<u>554</u>
10	<u>423</u>
12	<u>271</u>
Average	<u>493</u>
Lower Plenum	<u>112</u>
Upper Plenum	<u>280</u>

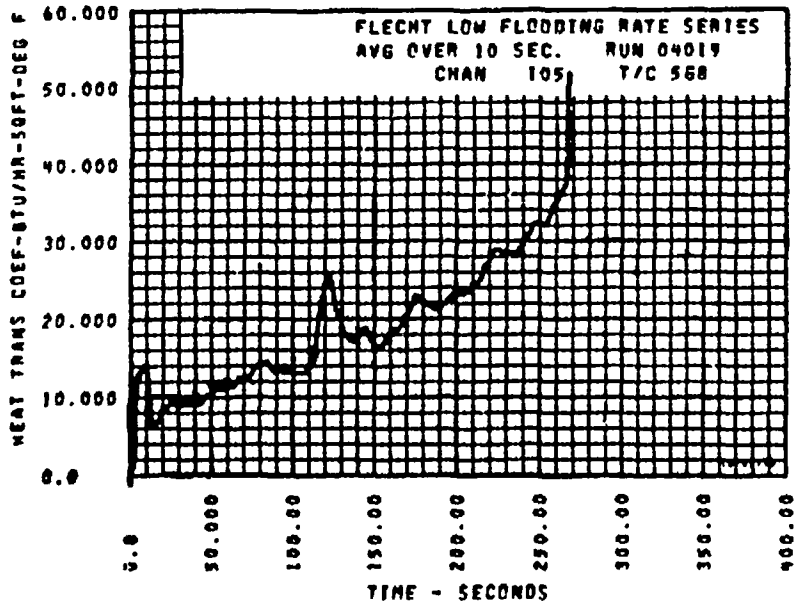
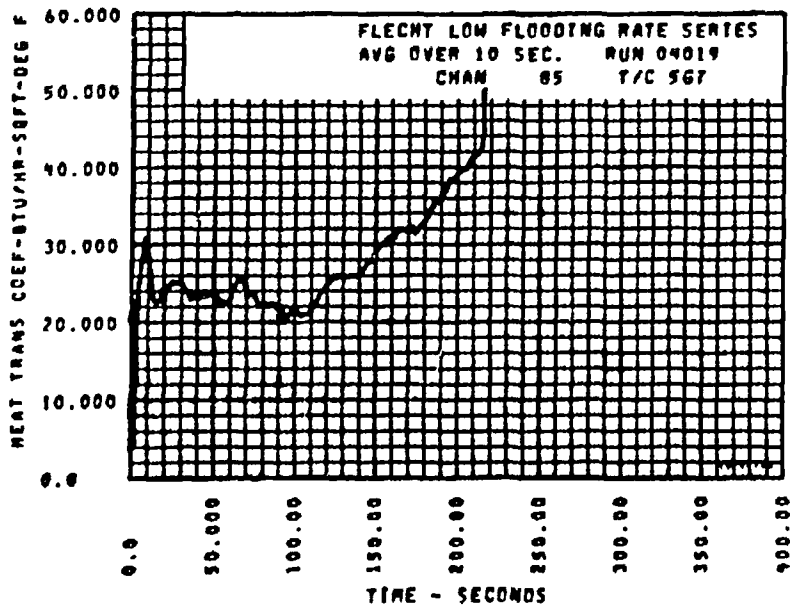
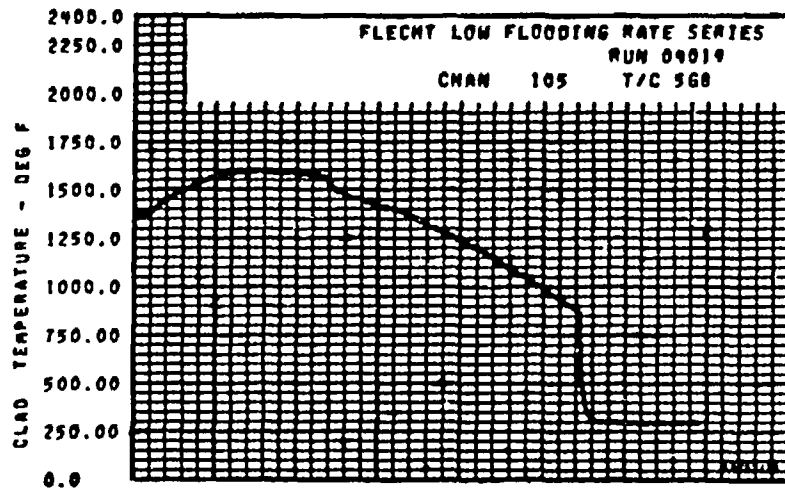
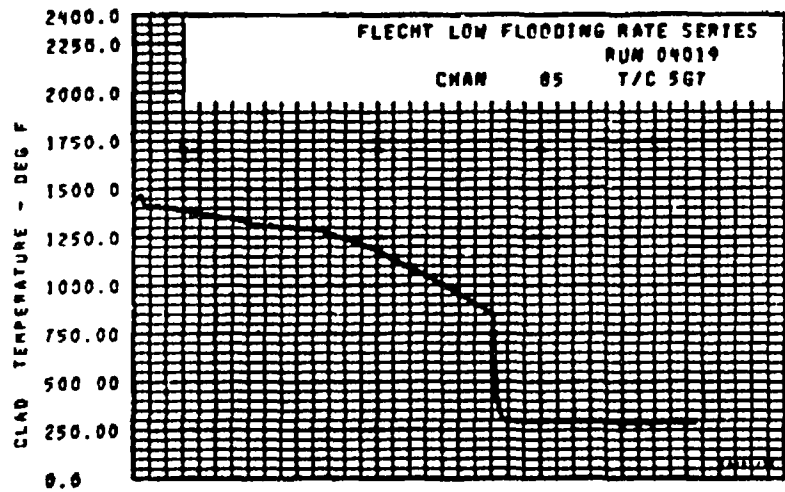
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FLECHT-LOW FLOODING RATE ROD THERMOCOUPLE DATA

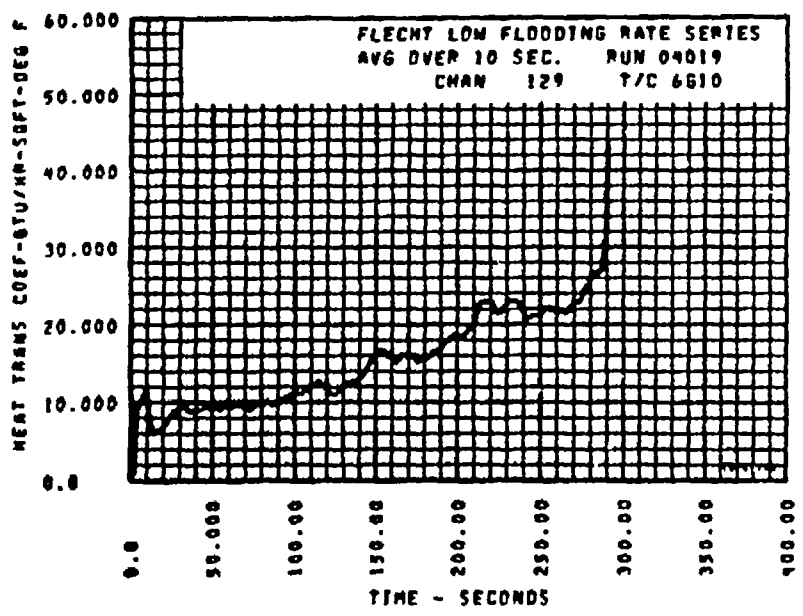
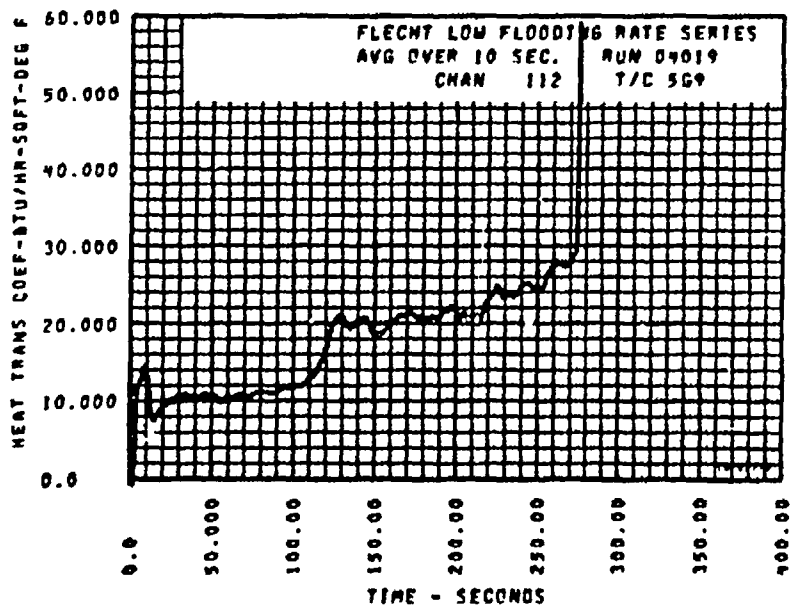
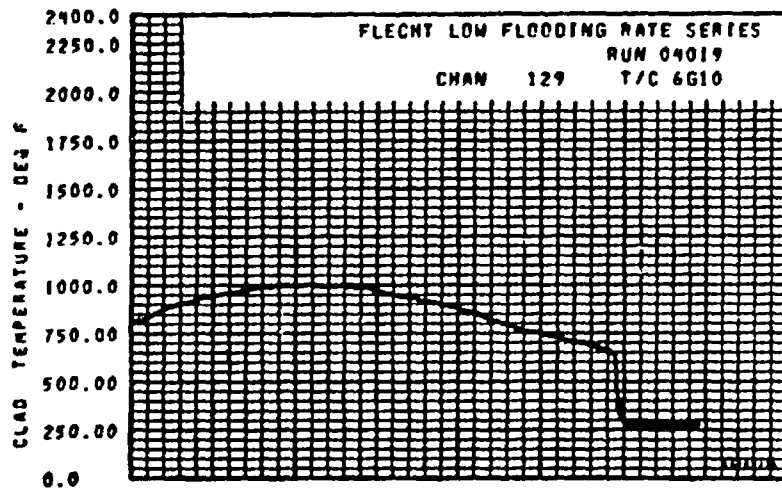
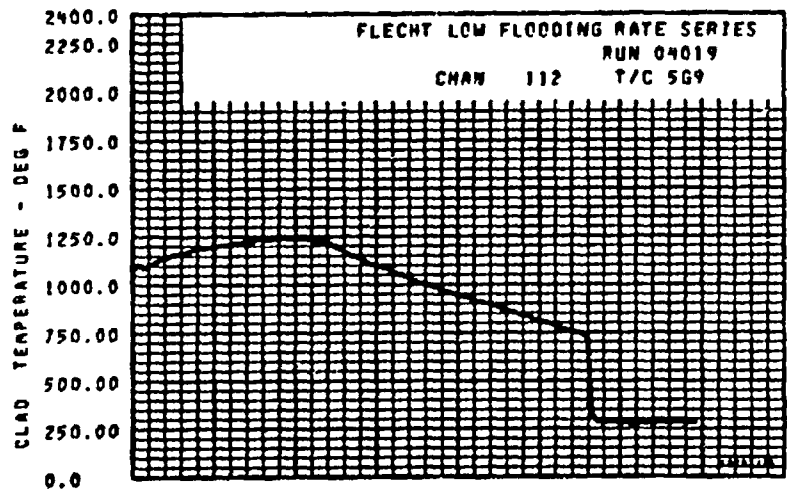
ROD/ELEV	TEMPERATURE AT POWER ON (DEG.F)	TIME OF POWER ON (SEC.)	INITIAL TEMPERATURE AT FLOOD (DEG.F)	RUN NUMBER 04019		TURNAROUND TIME (SEC.)	QUENCH TEMPERATURE (DEG.F)	QUENCH TIME (SEC.)
				MAXIMUM TEMPERATURE (DEG.F)	TEMPERATURE RISE (DEG.F)			
4H0.5	269.	-69.4	621.	627.	6.	1.2	583.	3.9
4H1	291.	-70.4	651.	662.	10.	2.2	588.	8.5
4H1.5	355.	-69.4	688.	699.	11.	2.2	610.	21.6
4H2	414.	-70.4	913.	929.	16.	2.8	708.	34.5
4H4	557.	-70.4	1414.	1472.	58.	23.6	745.	112.5
4H6	559.	-70.4	1602.	1604.	202.	59.2	980.	192.0
806	430.	-69.4	1513.	1740.	226.	66.6	873.	200.7
806.5	433.	-69.4	1459.	1761.	302.	75.6	850.	220.5
807	408.	-69.4	1381.	1425.	44.	4.4	832.	246.9
808	411.	-69.4	1253.	1471.	218.	47.6	703.	284.0
809	335.	-63.4	1059.	1141.	82.	41.0	605.	303.0
8010	349.	-63.4	831.	1031.	199.	105.0	668.	282.1
8011	269.	-63.4	619.	934.	215.	113.0	625.	249.8
8012	272.	-63.4	491.	617.	126.	154.0	582.	181.1
SF0	253.	-69.4	432.	432.	0.	0.0	424.	1.0
SF0.5	264.	-70.4	619.	624.	4.	1.0	594.	4.6
SF1	269.	-70.4	622.	631.	9.	2.0	569.	10.4
SF1.5	357.	-67.4	665.	680.	16.	4.6	284.	36.8
SF2	332.	-70.4	846.	902.	16.	2.9	709.	31.3
SF3	436.	-63.4	1155.	1179.	24.	3.3	777.	62.5
SF4	544.	-70.4	1397.	1451.	54.	20.3	712.	108.3
SF6	419.	-69.4	1552.	1781.	229.	60.6	842.	195.5
5G6	516.	-63.4	1565.	1467.	101.	76.6	955.	182.9
5G6.5	411.	-63.4	1495.	1530.	343.	91.4	1066.	177.8
5G7	456.	-63.4	1430.	1471.	41.	4.0	845.	221.5
5G8	494.	-63.4	1338.	1598.	260.	78.2	671.	272.0
5G9	409.	-63.4	1071.	1235.	164.	90.6	645.	240.6
5G11	269.	-70.4	623.	780.	158.	109.2	705.	174.0
5G12	272.	-63.4	593.	695.	102.	104.4	661.	114.9
1G4	556.	-63.4	1321.	1344.	23.	3.4	810.	95.3
1G6	608.	-70.4	1528.	1591.	64.	40.6	945.	199.0
1G10	272.	-63.4	740.	944.	105.	77.3	283.	318.0
JH2	434.	-63.4	923.	941.	18.	2.9	704.	30.6
JH6	140.	-63.4	1587.	1904.	221.	61.0	924.	188.8
JH8	314.	-63.4	1351.	1544.	197.	52.4	858.	267.0
JH10	332.	-73.4	821.	1103.	292.	97.0	597.	310.6

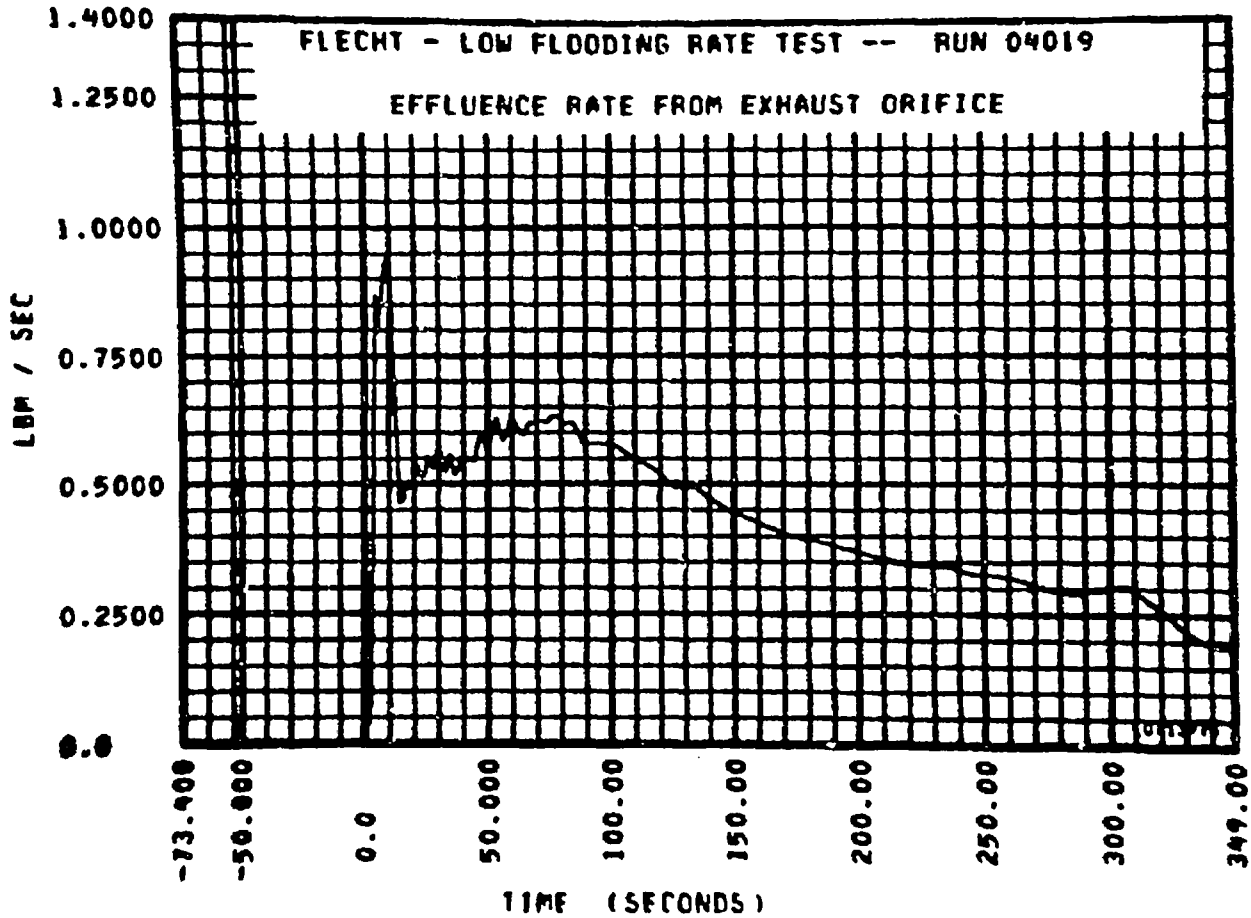
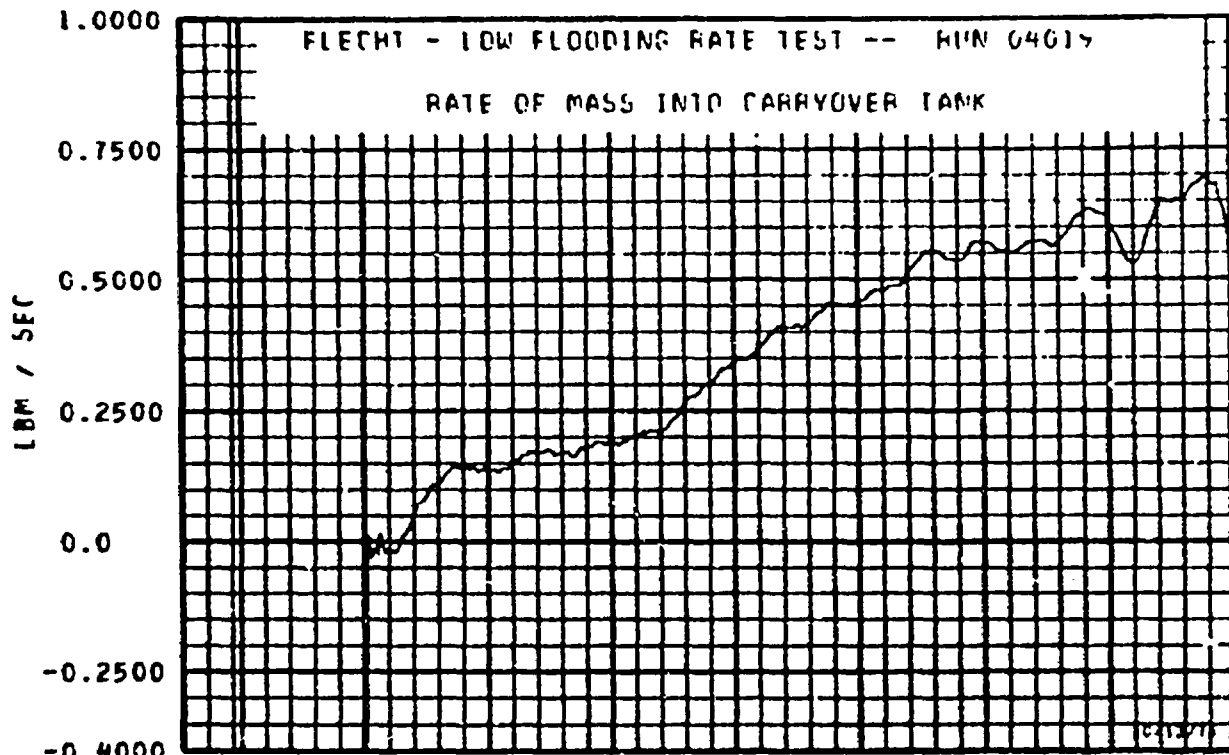


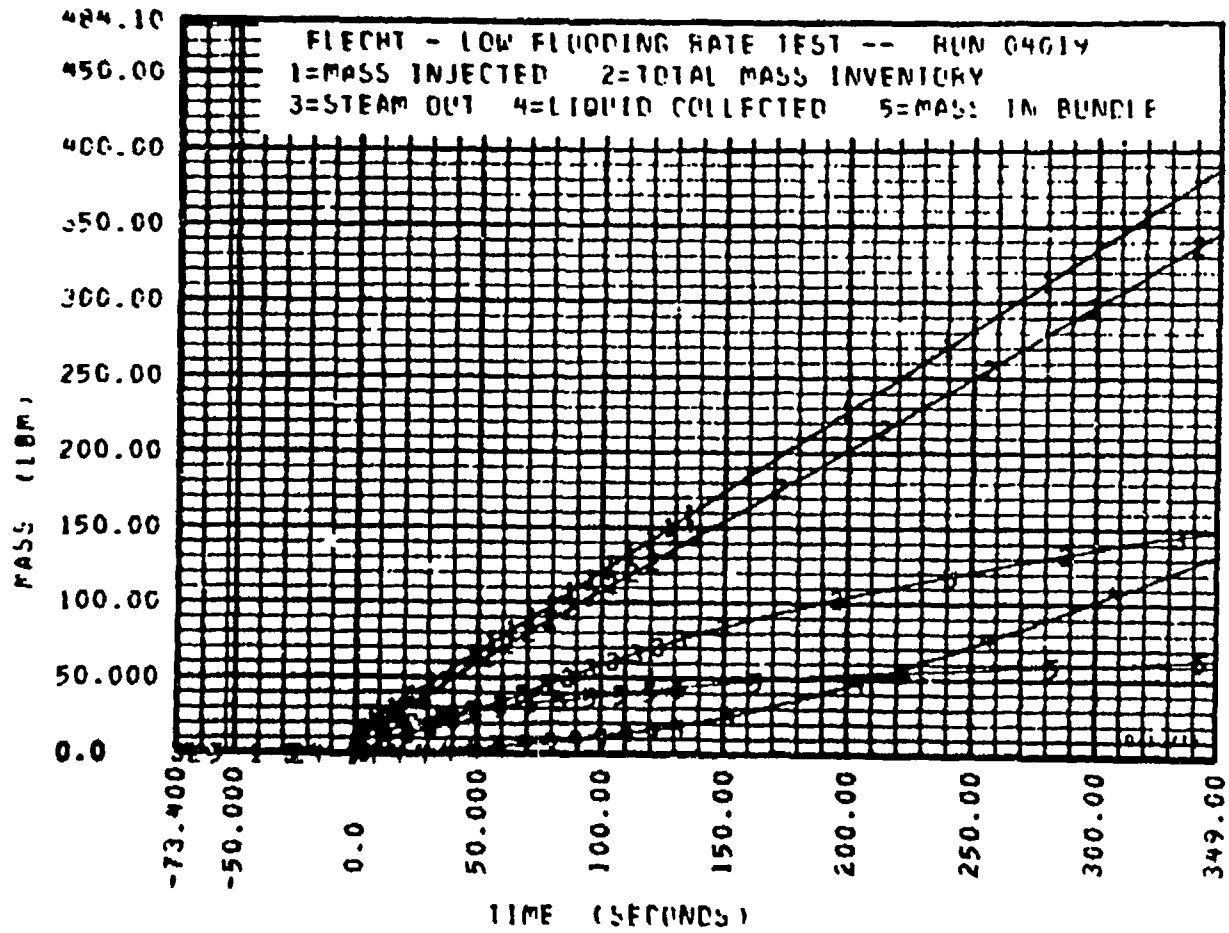


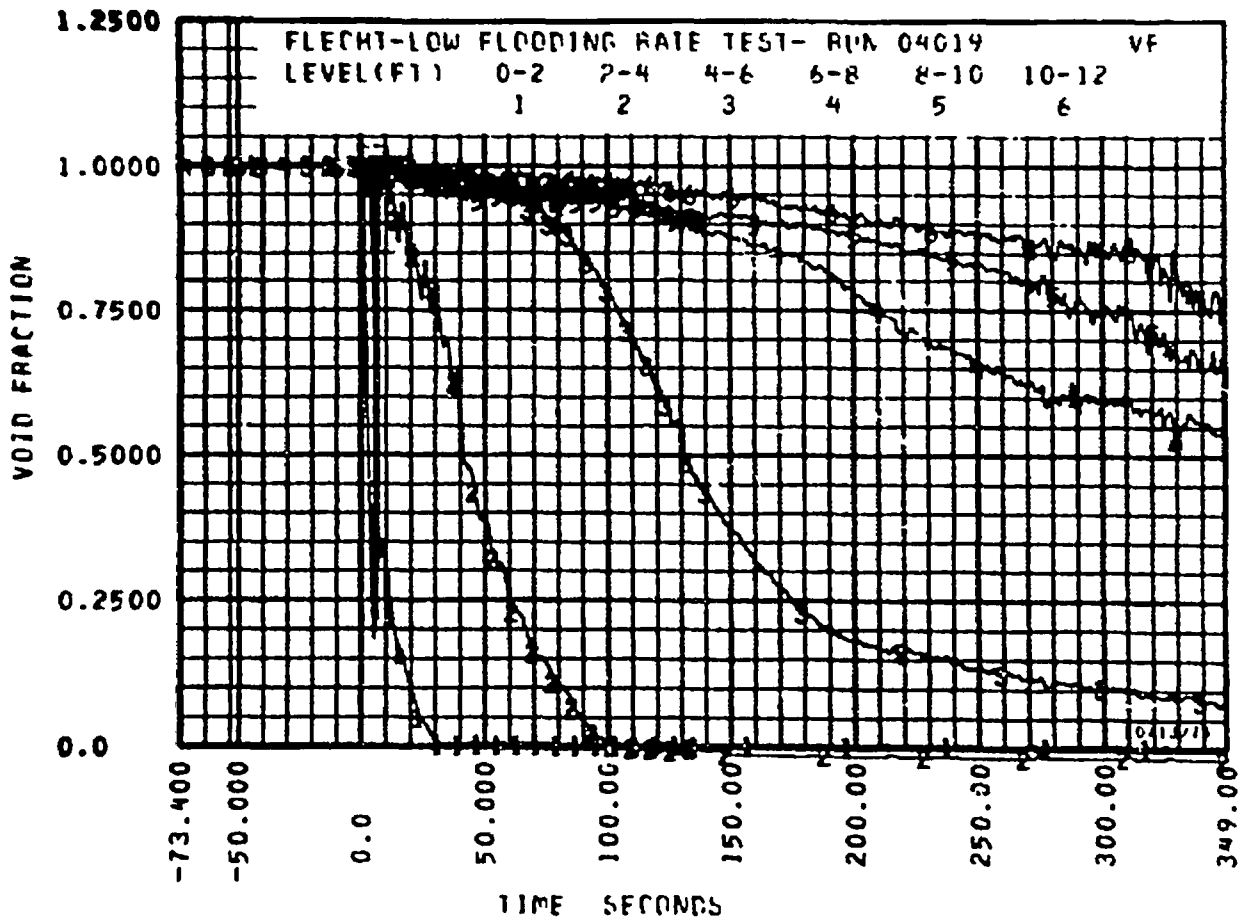
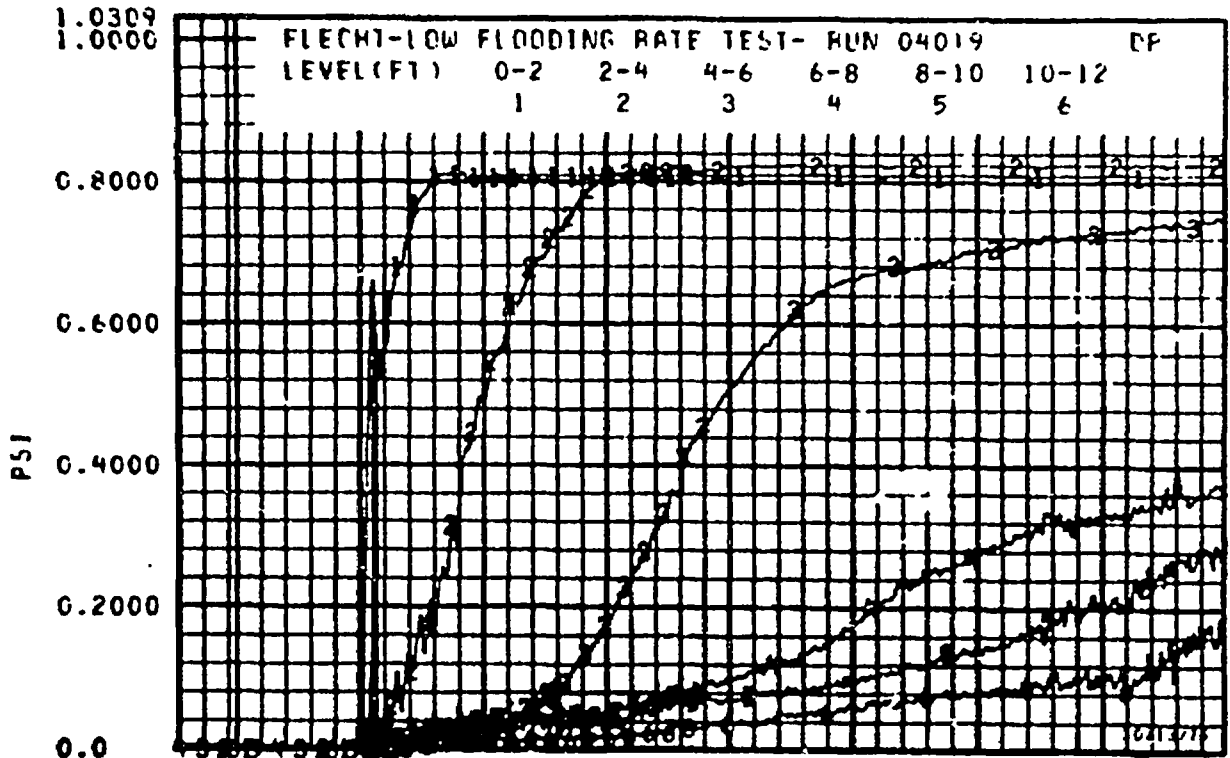


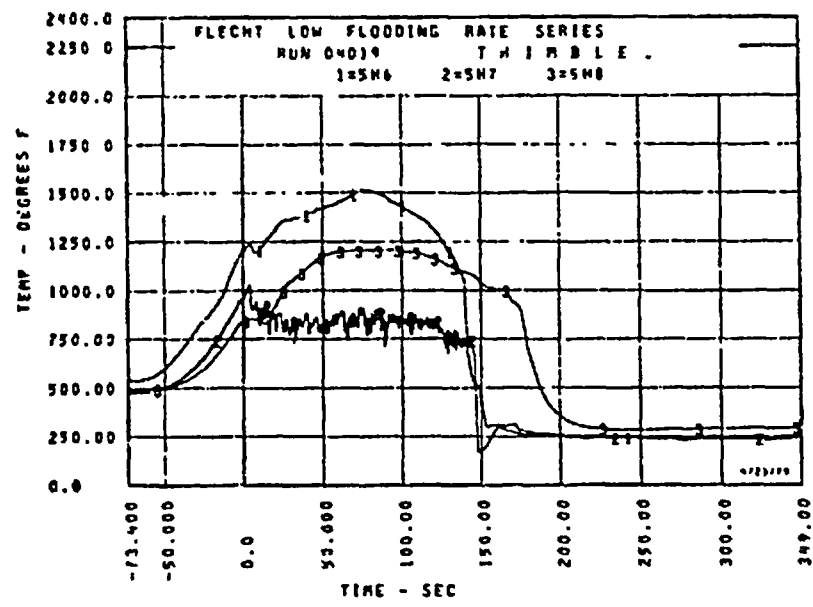
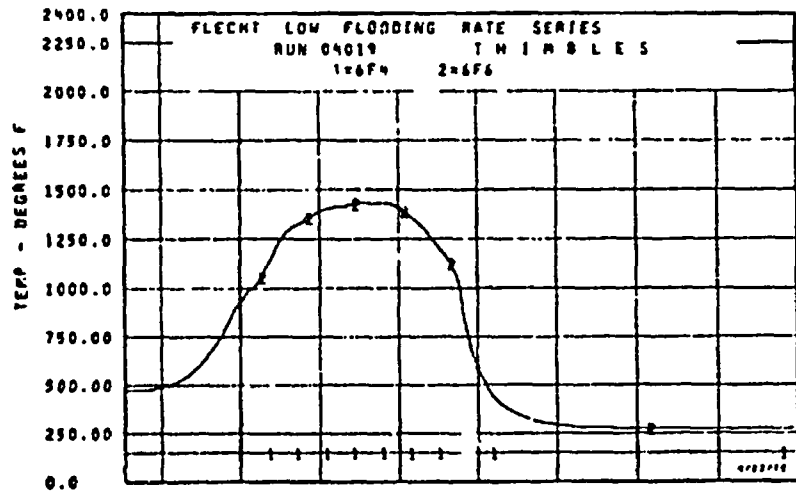
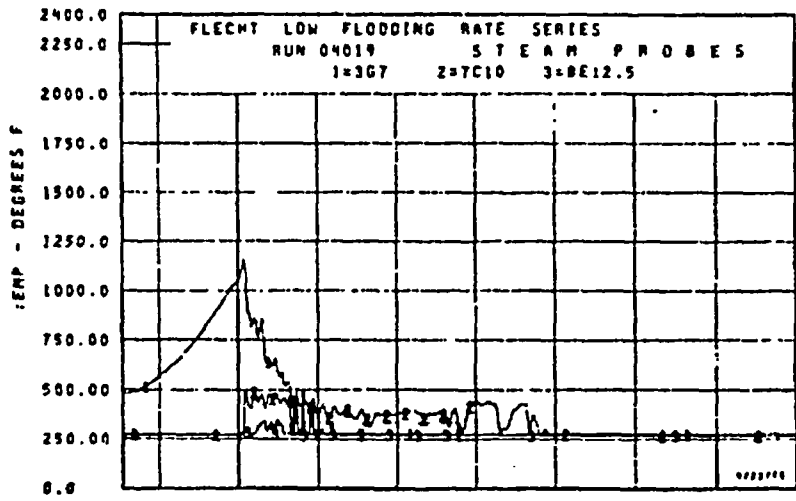
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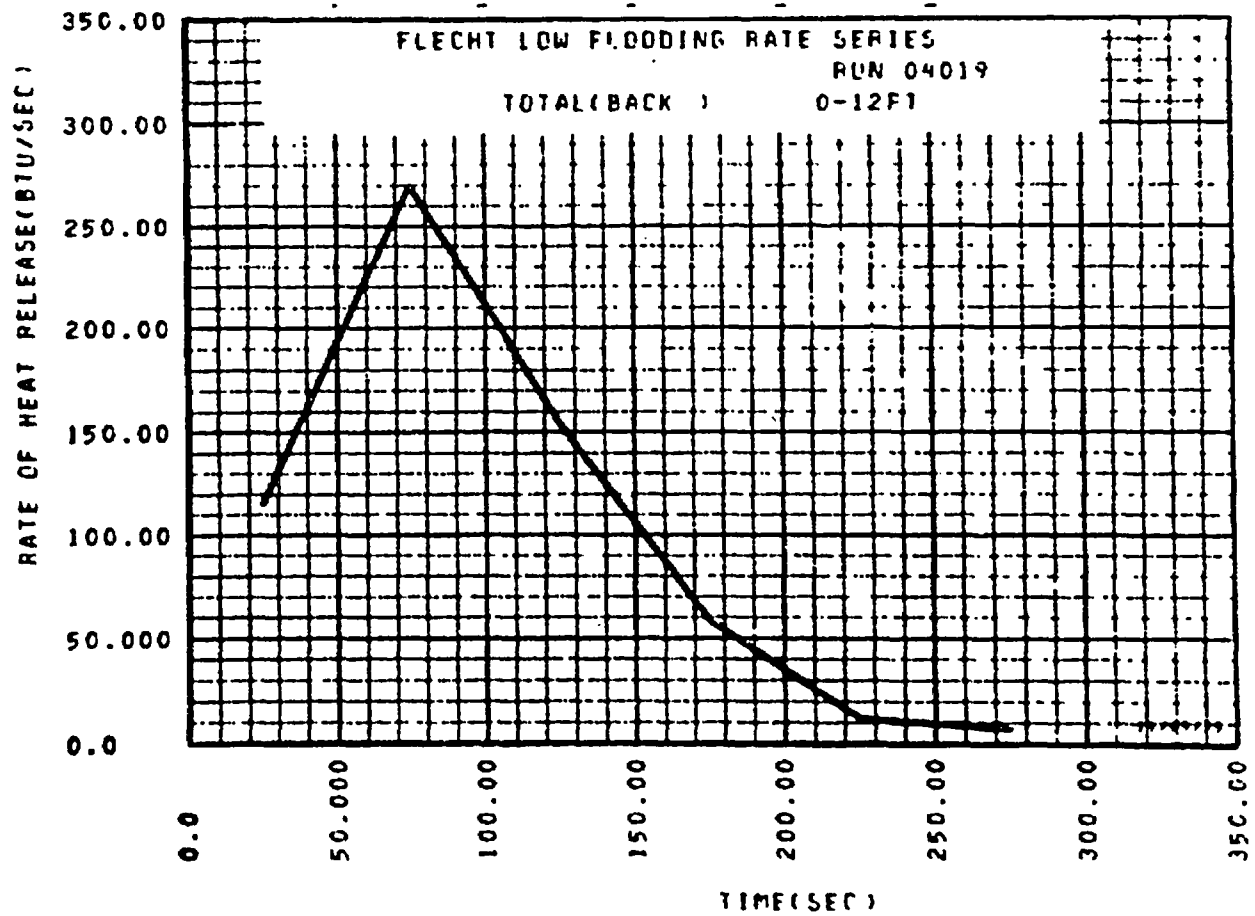
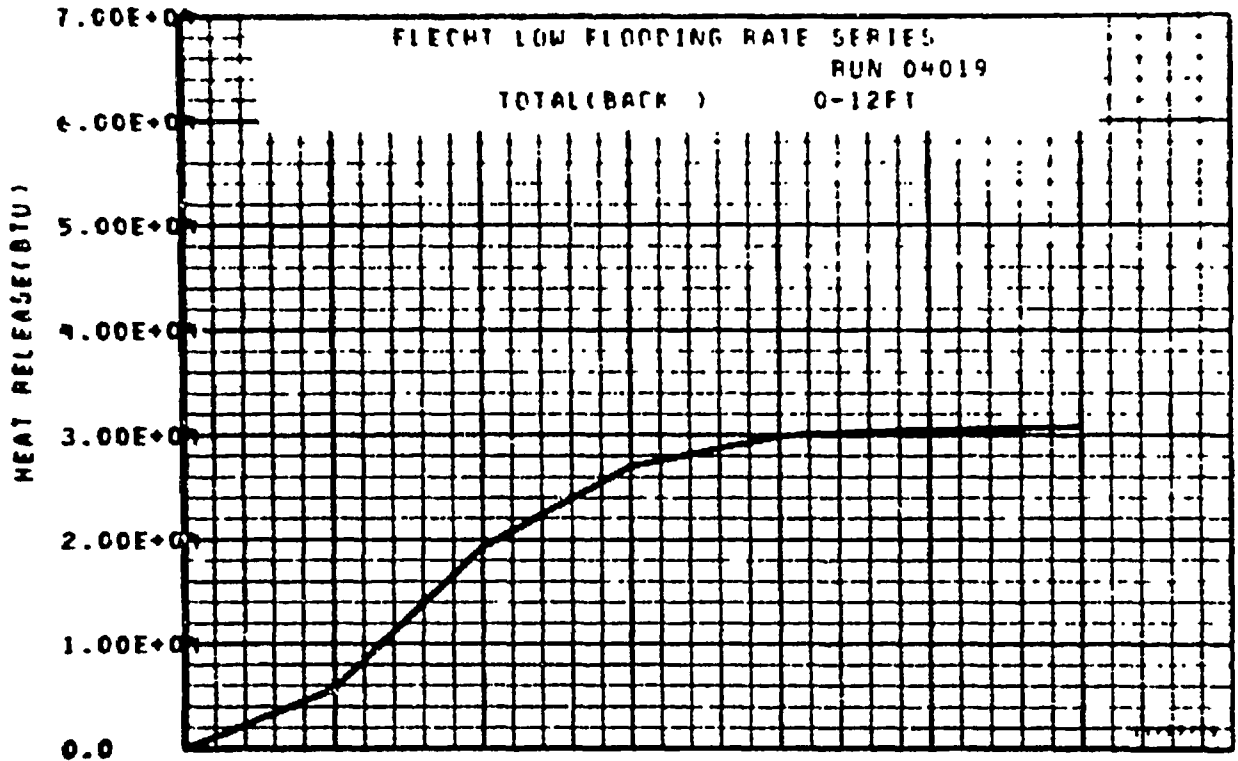












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FLECHT - LOW FLOODING RATE TEST

SUMMARY SHEET

COSINE AXIAL POWER PROFILE

RUN NO. 04220

DATE: 4/25/75

A. RUN CONDITIONS

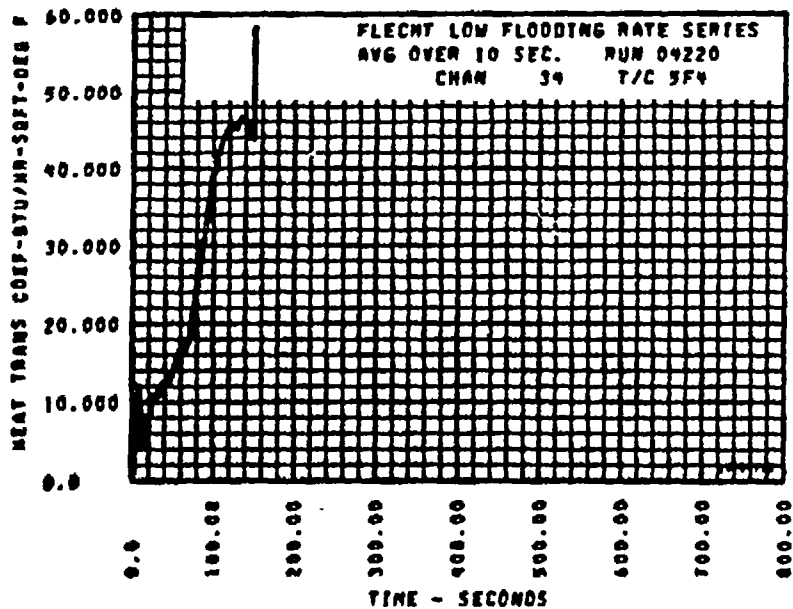
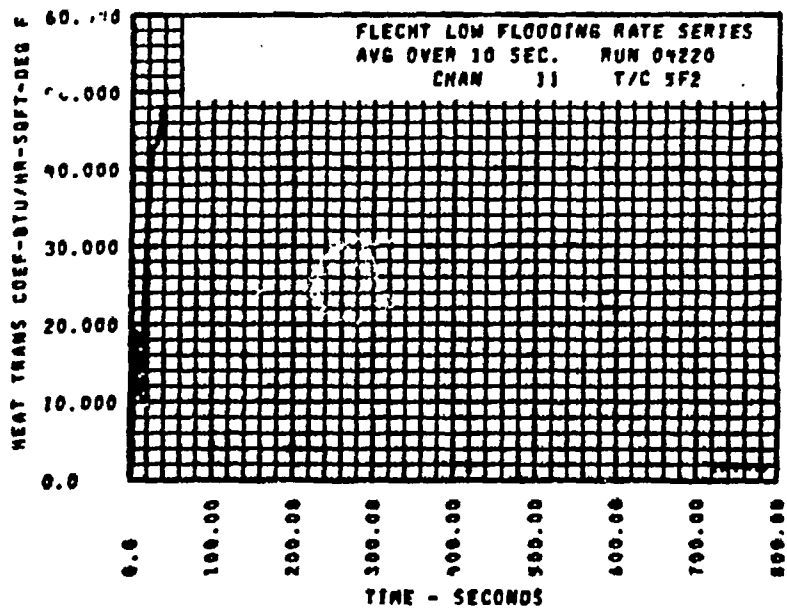
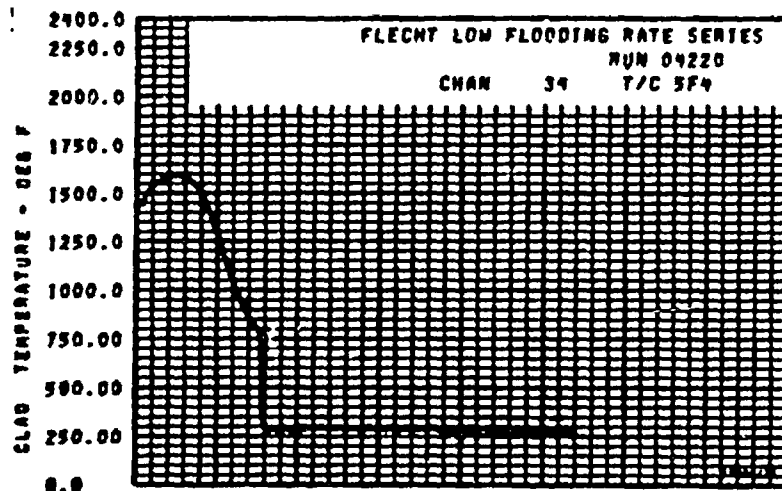
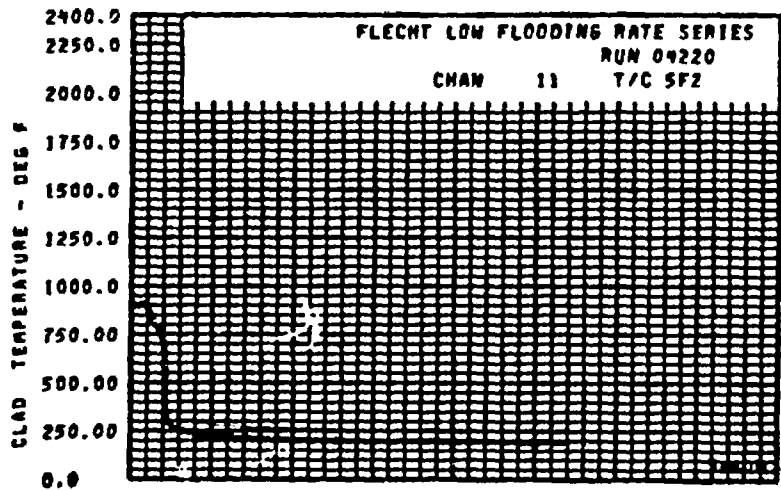
Upper Plenum Pressure, psia	<u>39</u>	
Initial Clad Temperature (6 ft)°F At Flood	<u>1,601</u>	Rod T/C <u>486</u>
Rod Peak Power, kw/ft	<u>0.89</u>	
Flooding Rate, in/sec	<u>6 (5 sec)</u>	
	<u>0.4 (5 sec)</u>	
	<u>1.0</u>	
Coolant Temperature, °F	<u>124</u>	
Bundle Radial Power Profile	<u>FLECHT</u>	
Disconnected Rods	<u>7F</u>	

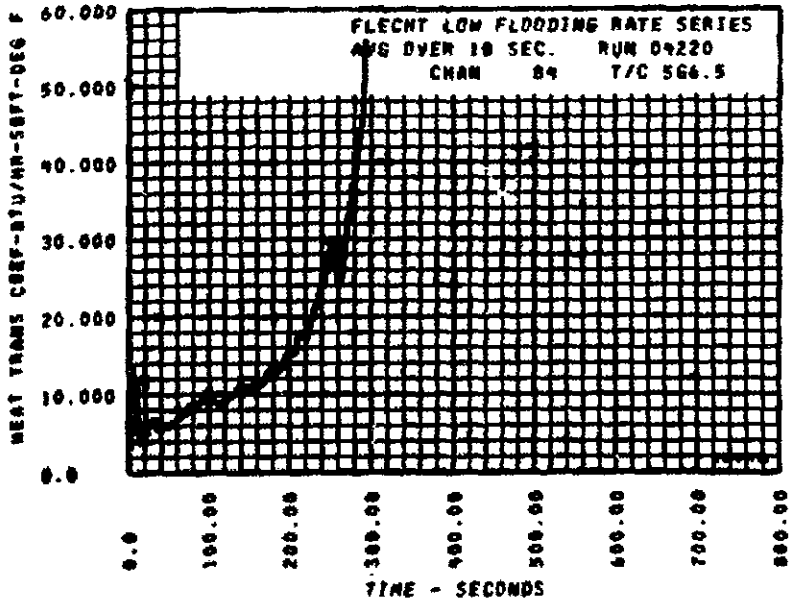
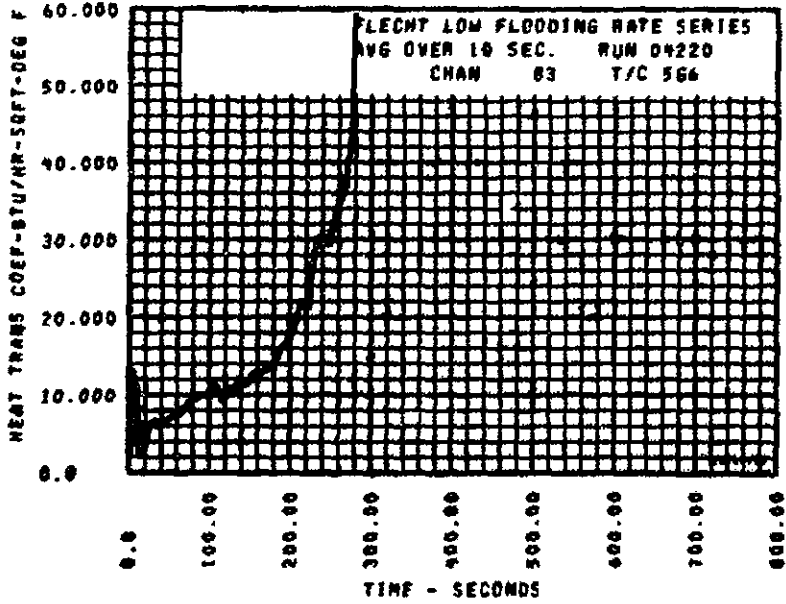
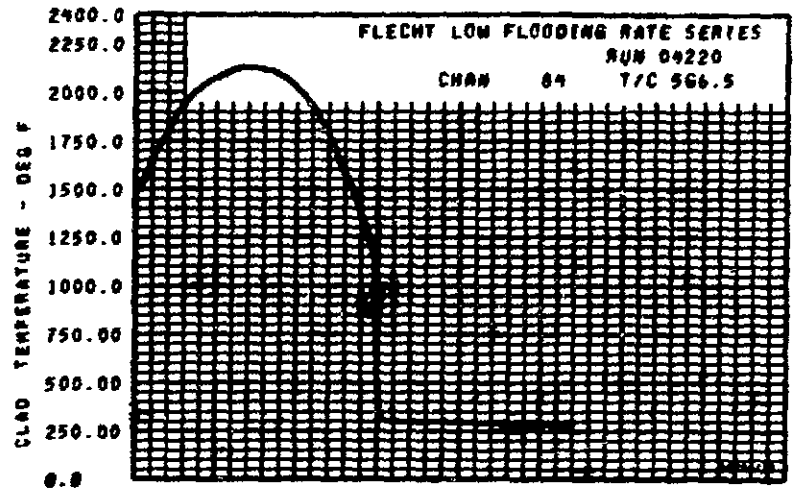
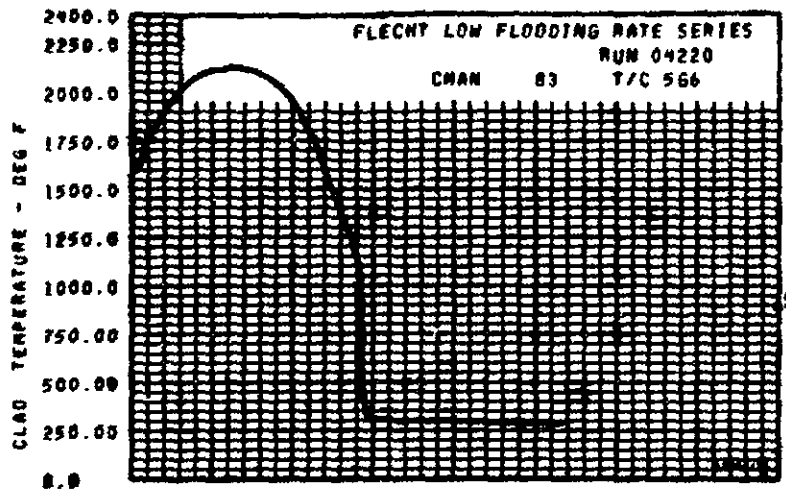
B. INITIAL HOUSING TEMPERATURE

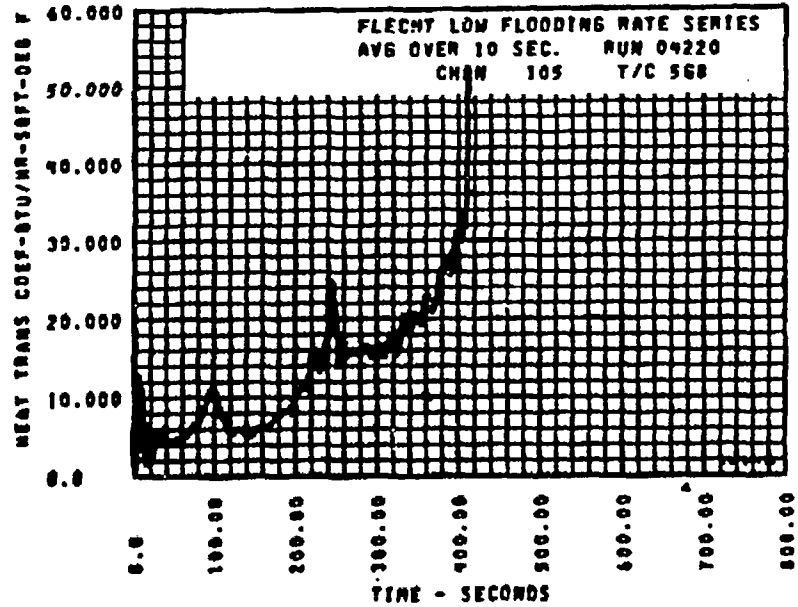
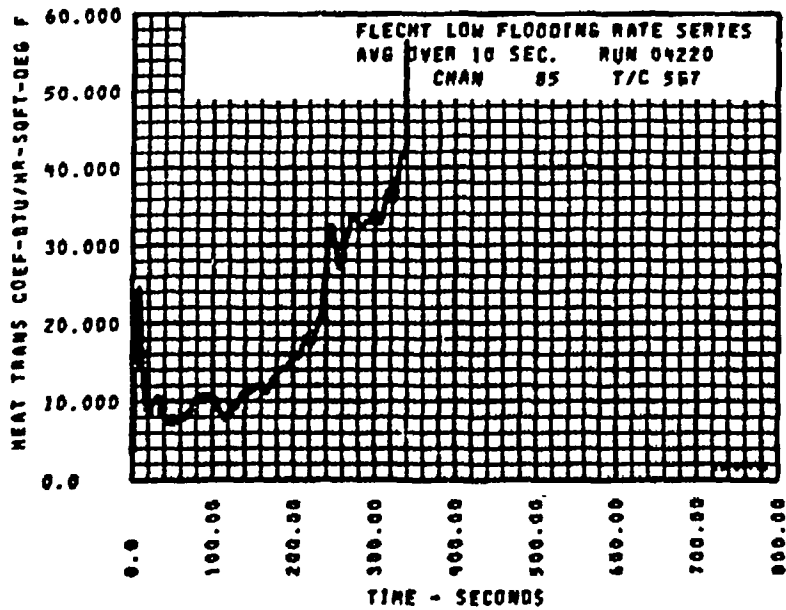
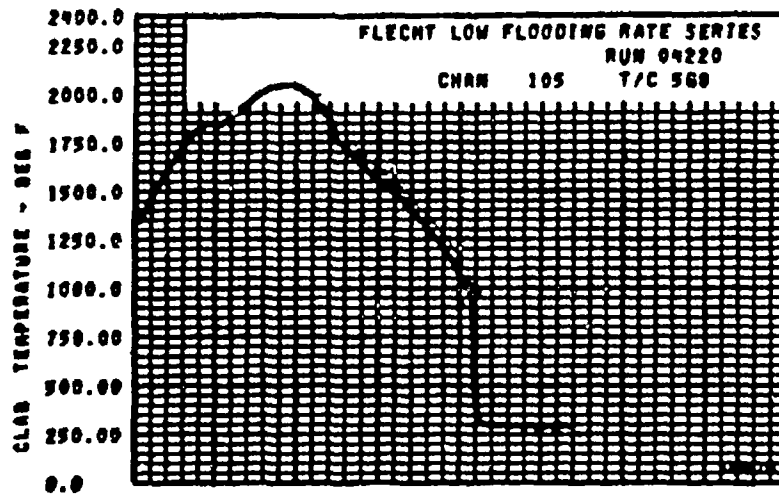
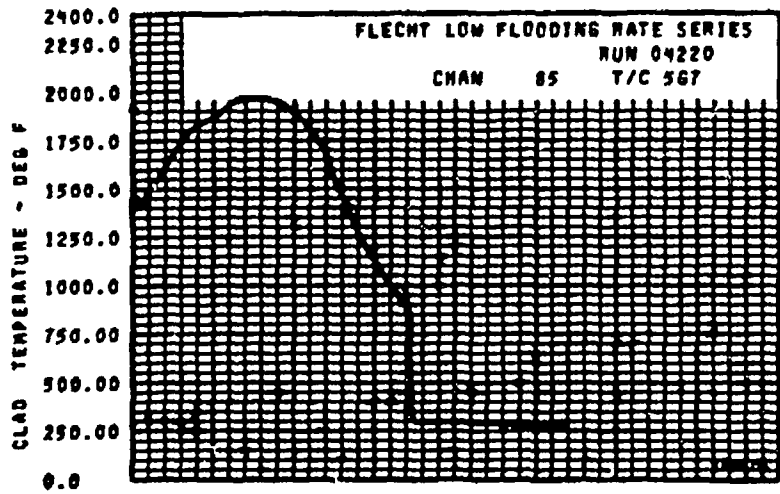
Back Side Elevation, Ft.	Temperature, °F
0	<u>255</u>
2	<u>498</u>
4	<u>674</u>
5.5	<u>774</u>
6	<u>789</u>
6.5	<u>604</u>
7	<u>606</u>
7.5	<u>616</u>
8	<u>685</u>
10	<u>482</u>
12	<u>270</u>
Average	<u>568</u>
Lower Plenum	<u>111</u>
Upper Plenum	<u>343</u>

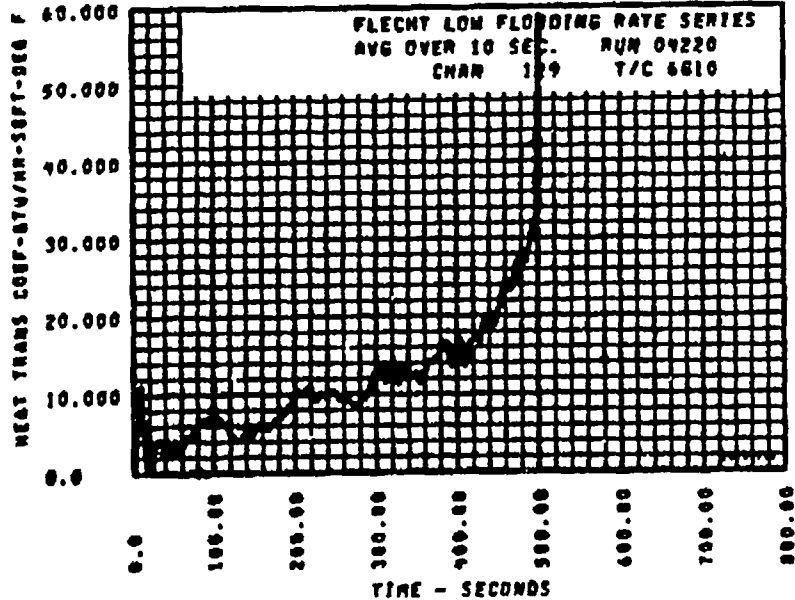
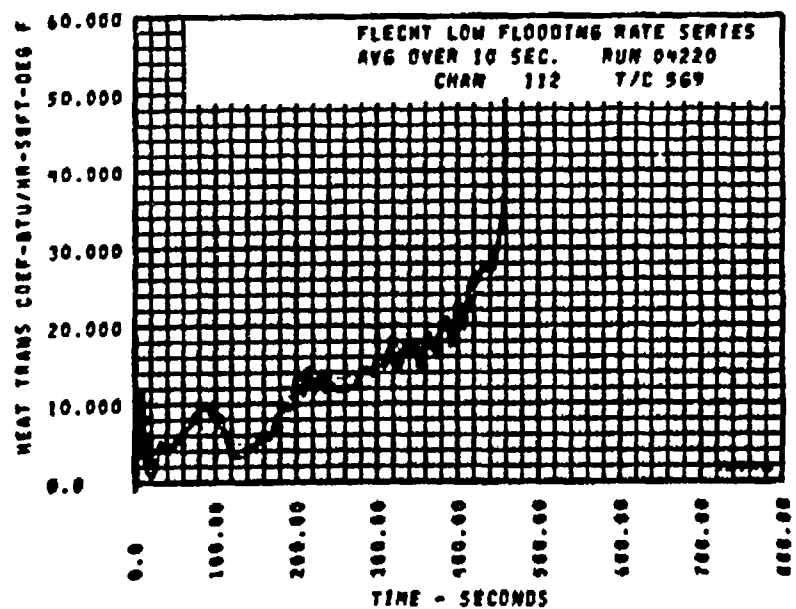
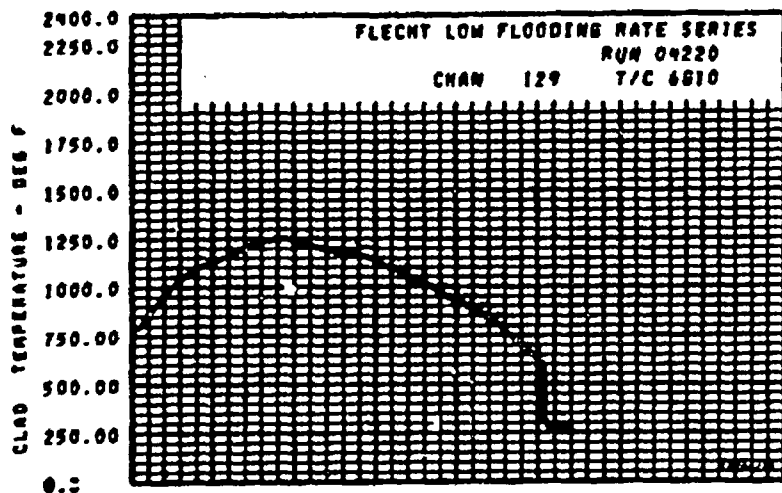
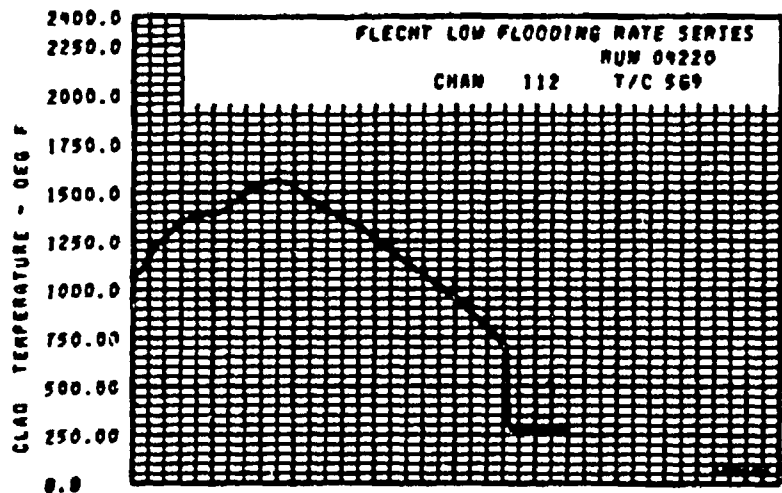
FLIGHT-LOG FLECCING RATE ROD THROUGHPUT DATA

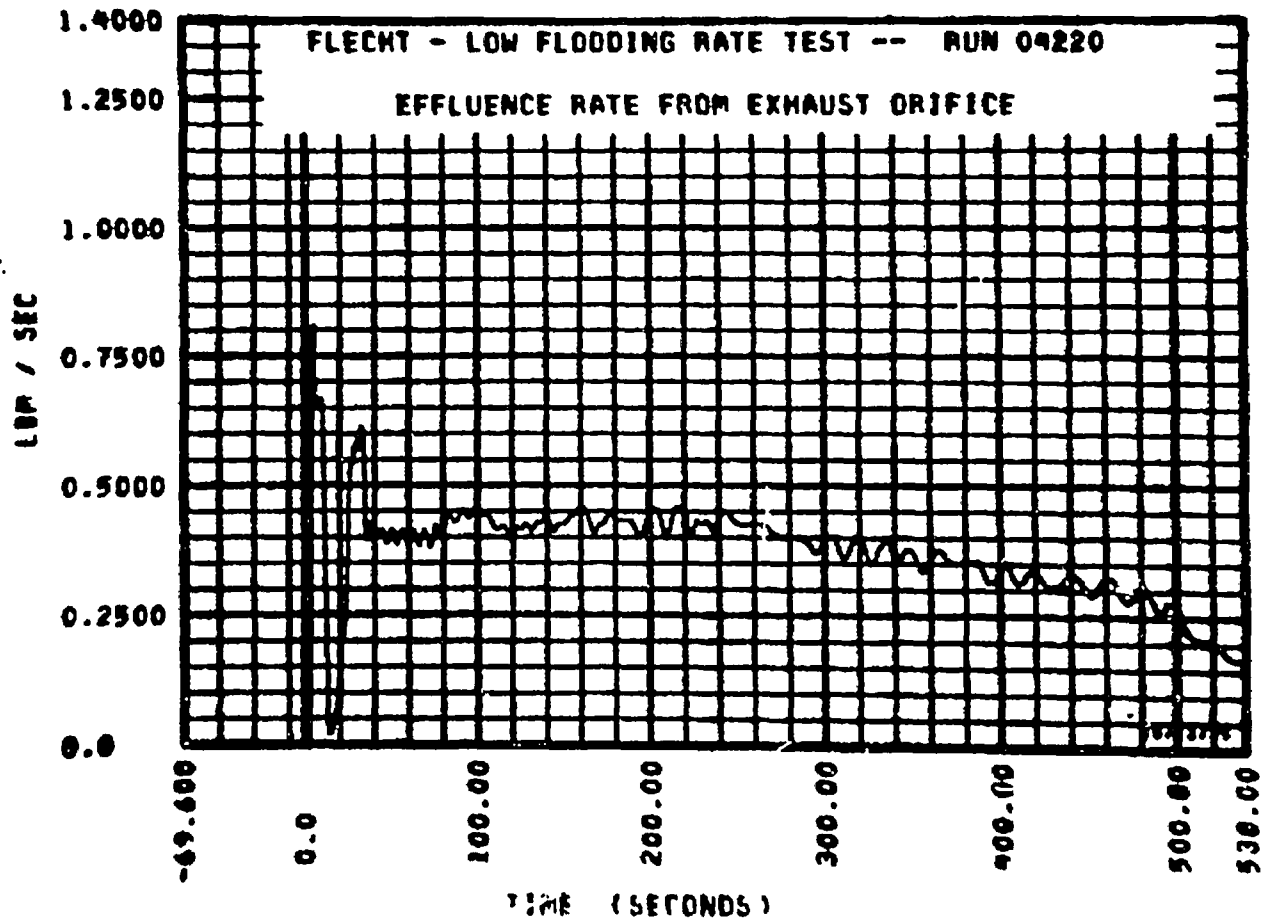
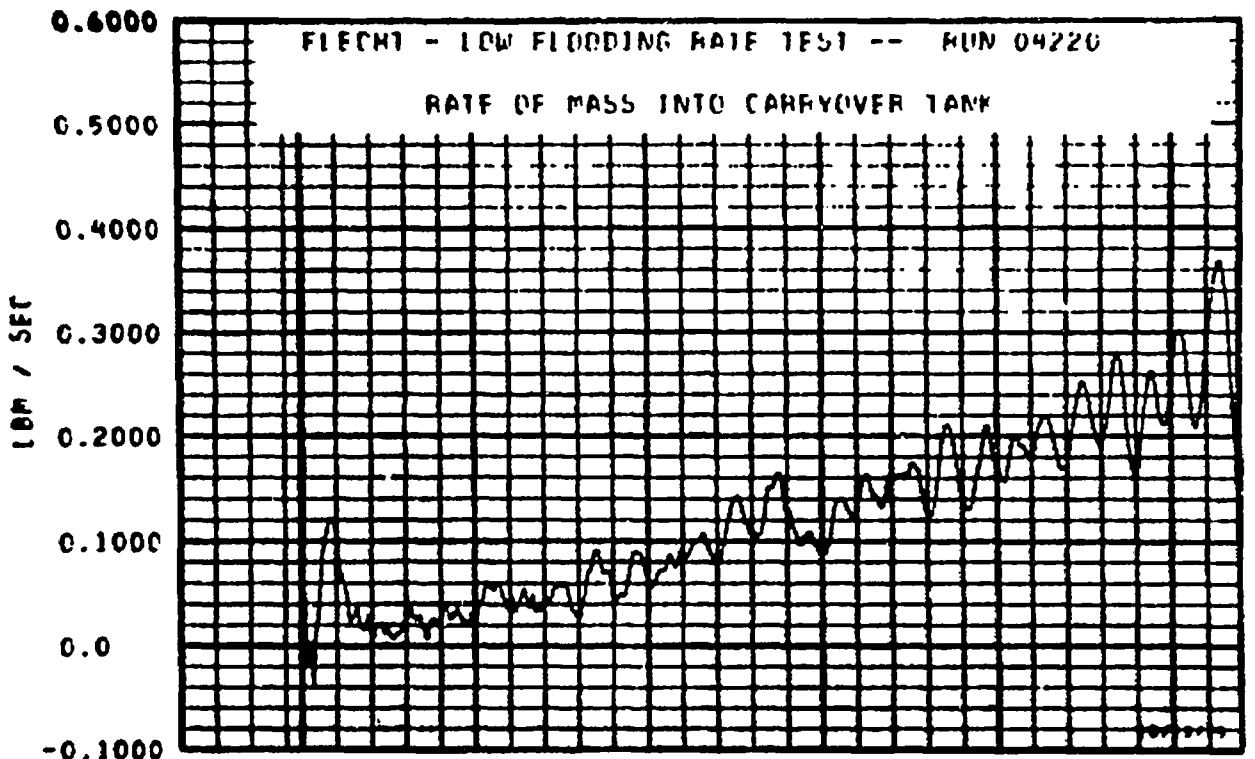
ROD/ELEV	TEMPERATURE AT 30 MIN. (DEG.F)	TYPE OF FLECC	INITIAL TEMPERATURE AT FLECC (DEG.F)	MINIMUM TEMPERATURE (DEG.F)	MAXIMUM TEMPERATURE (DEG.F)	THROUGHPUT TIME (SEC.)	QUENCH TEMPERATURE (DEG.F)	QUENCH TIME (SEC.)
4M0.5	346.	0500F	1030.	430.	7.	1.5	579.	3.1
4M1	337.	0530F	1060.	450.	11.	2.2	572.	13.8
4M1.5	347.	0500F	990.	700.	12.	2.4	565.	27.6
4M2	354.	0550F	910.	750.	24.	18.2	727.	43.8
4M4	339.	0530F	1463.	1410.	169.	80.3	991.	154.9
4M6	340.	0500F	1401.	2050.	456.	121.2	1054.	291.9
805	317.	0530F	1478.	1376.	499.	99.9	953.	279.1
806.5	300.	0500F	1404.	1390.	591.	122.8	916.	320.0
807	303.	0500F	1367.	1420.	451.	122.8	823.	363.9
808	310.	0500F	1214.	1414.	600.	145.2	819.	425.0
809	316.	0530F	706.	1156.	193.	105.2	618.	469.0
8010	310.	0530F	749.	1217.	429.	195.2	788.	640.7
8011	301.	0500F	612.	1310.	404.	197.9	911.	373.8
8012	304.	0530F	478.	464.	366.	194.2	427.	24.4
SF0	303.	0530F	641.	447.	7.	1.2	440.	0.7
SF0.5	301.	0530F	595.	400.	5.	1.2	460.	4.6
SF1	307.	0530F	626.	431.	8.	2.3	451.	14.6
SF1.5	304.	0530F	779.	799.	16.	21.2	497.	59.0
SF2	310.	0530F	999.	117.	13.	15.4	459.	41.8
SF3	309.	0530F	1239.	1373.	73.	23.8	489.	97.9
SF4	317.	0530F	1437.	1467.	173.	48.0	749.	155.7
SF6	312.	0500F	1476.	2049.	375.	133.3	1049.	277.8
SG6	317.	0500F	1574.	2131.	553.	222.0	974.	295.5
SG6.5	310.	0530F	1447.	2117.	653.	133.3	1024.	297.5
SG7	313.	0500F	1421.	1900.	567.	146.3	951.	344.0
SG8	314.	0500F	1324.	2145.	721.	195.3	949.	416.4
SG9	307.	0550F	1300.	1959.	404.	172.3	489.	464.0
SG11	325.	0530F	611.	714.	375.	173.2	603.	504.0
SG12	322.	0500F	575.	113.	385.	177.3	600.	510.0
1G4	311.	0500F	1160.	1427.	67.	72.0	449.	121.2
1G6	313.	0530F	1541.	1721.	170.	76.4	504.	275.4
1G10	310.	0530F	779.	1371.	312.	115.2	463.	500.0
3M2	314.	0500F	301.	349.	13.	3.2	725.	18.9
3M6	310.	0530F	1537.	2018.	471.	71.4	374.	242.0
3M9	317.	0530F	1173.	1914.	590.	133.6	493.	416.0
3M10	307.	0530F	443.	1410.	549.	131.2	1037.	373.7

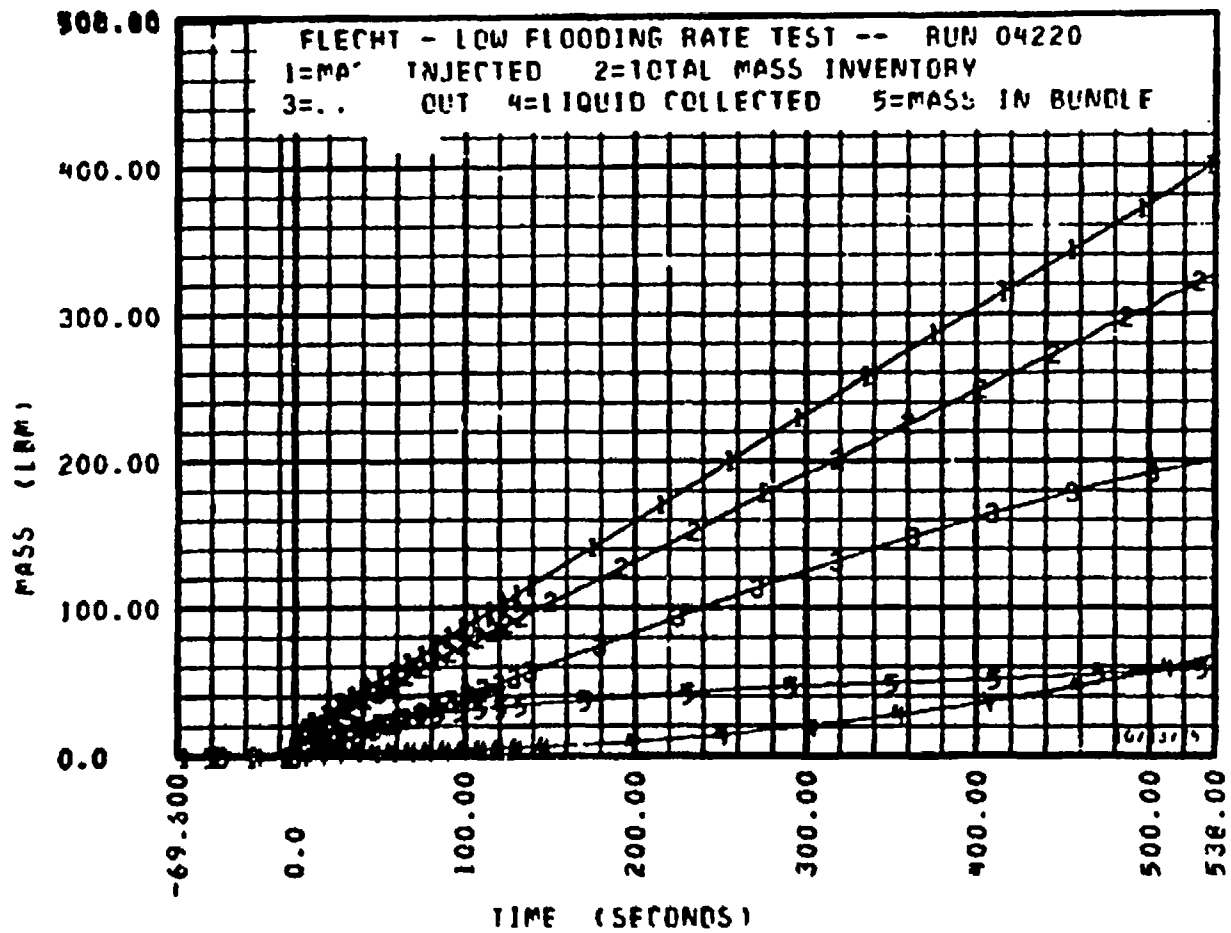










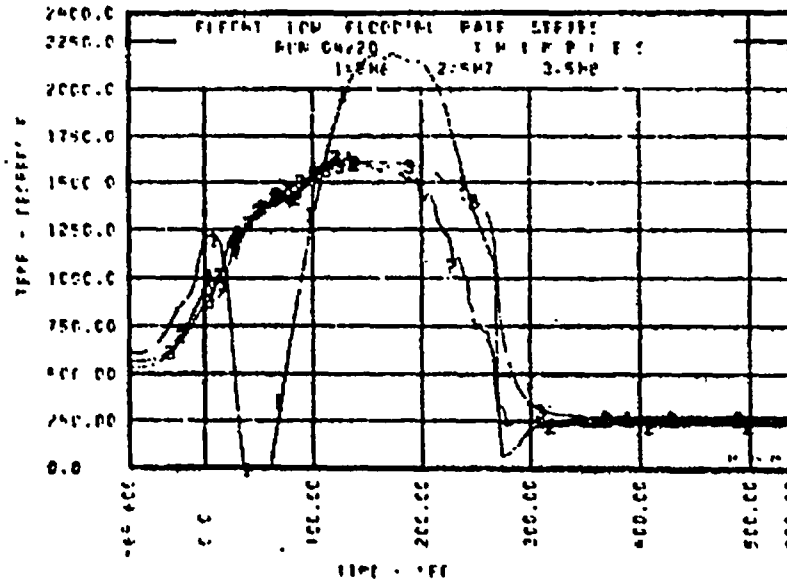
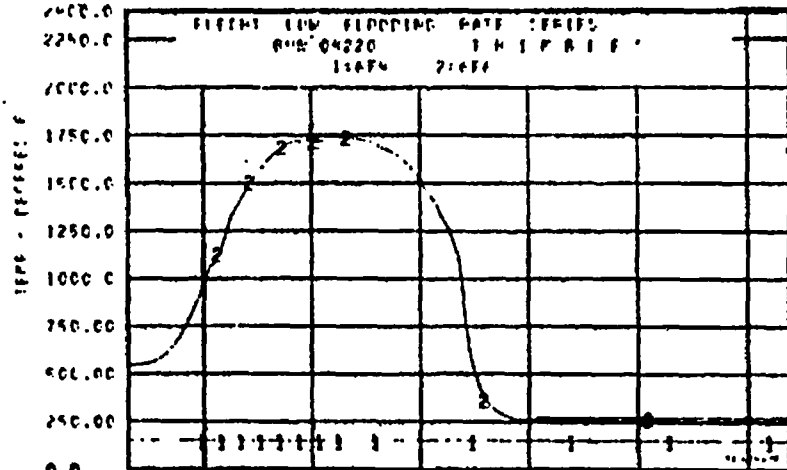
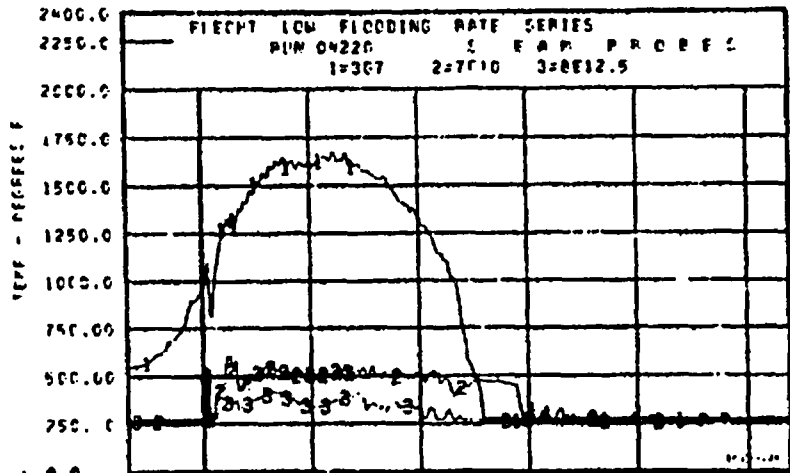


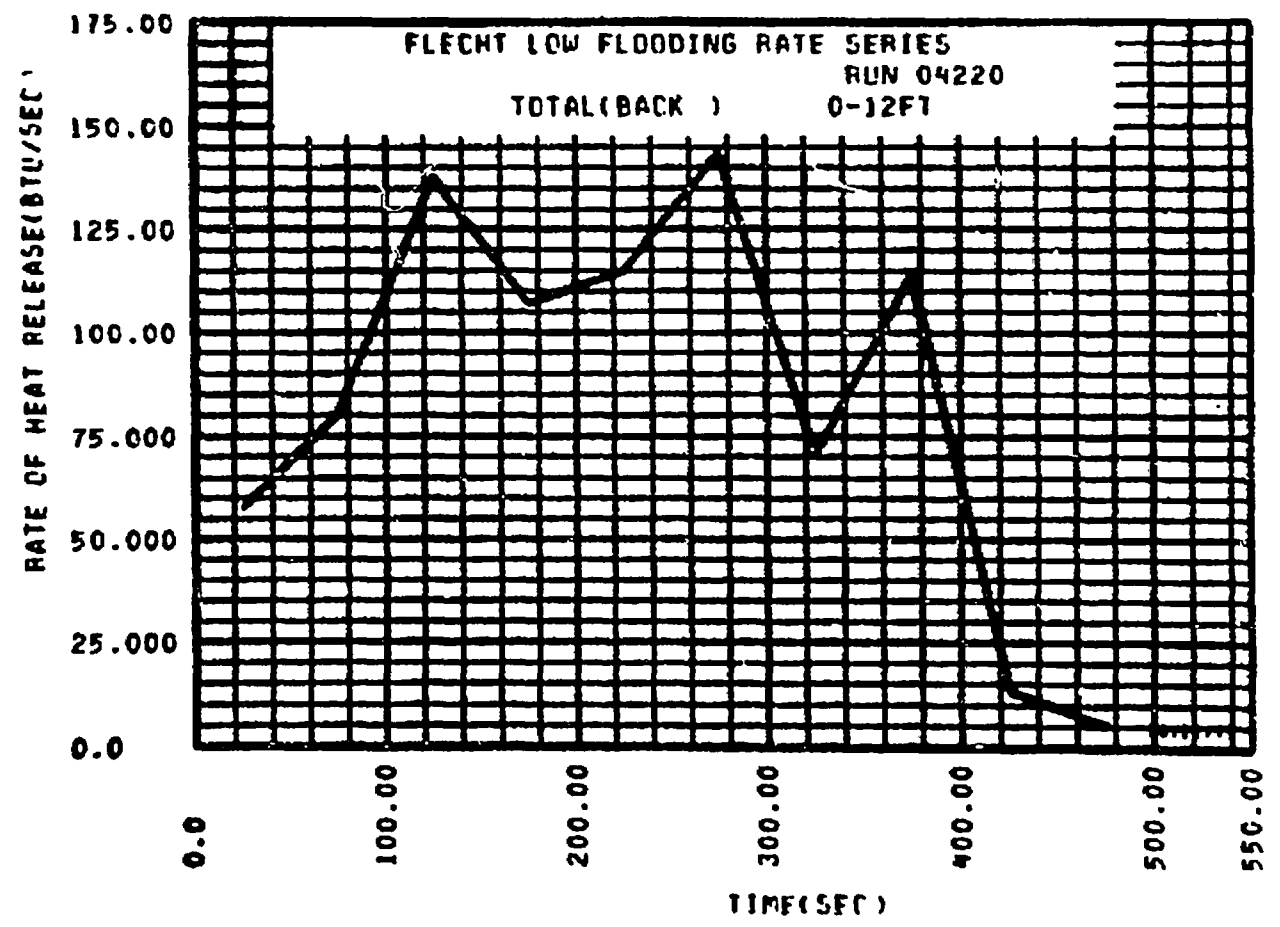
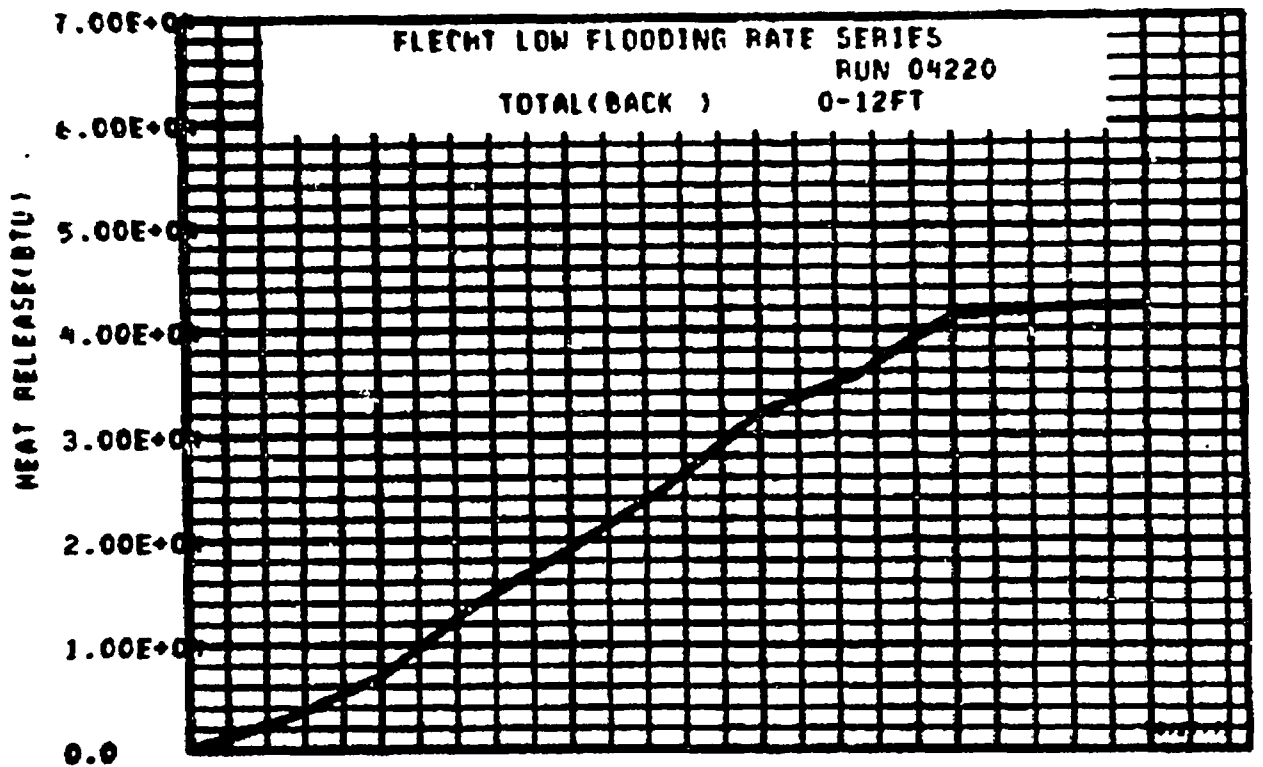
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@PJL USTATUS DEVICE = ON

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FLECHT - LOW FLOODING RATE TEST

SUMMARY SHEET

COSINE AXIAL POWER PROFILE

RUN NO. 04444

DATE: 5/2/75

A. RUN CONDITIONS

Upper Plenum Pressure, psia	<u>58</u>	
Initial Clad Temperature (6 Ft)°F At Flood	<u>1,815</u>	Rod T/C <u>4H6</u>
Rod Peak Power, kw/ft	<u>1.22</u>	
Flooding Rate, in/sec	<u>5.8</u>	
	<u>----</u>	
	<u>----</u>	
Coolant Temperature, °F	<u>1.55</u>	
Bundle Radial Power Profile	<u>FLECHT</u>	
Disconnected Rods	<u>7F</u>	

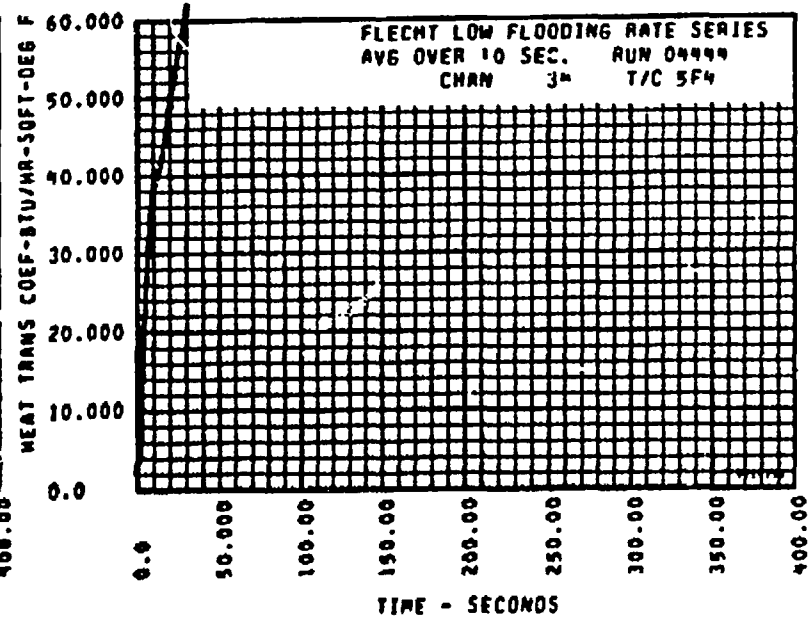
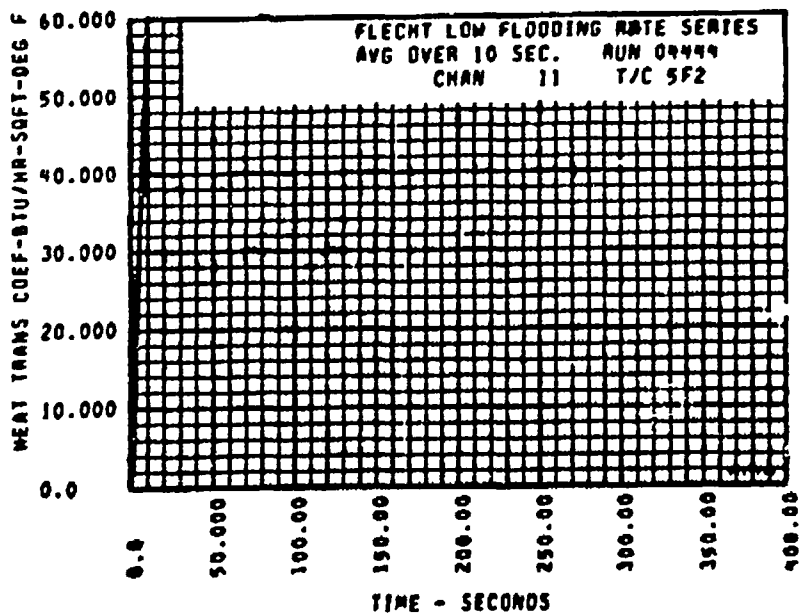
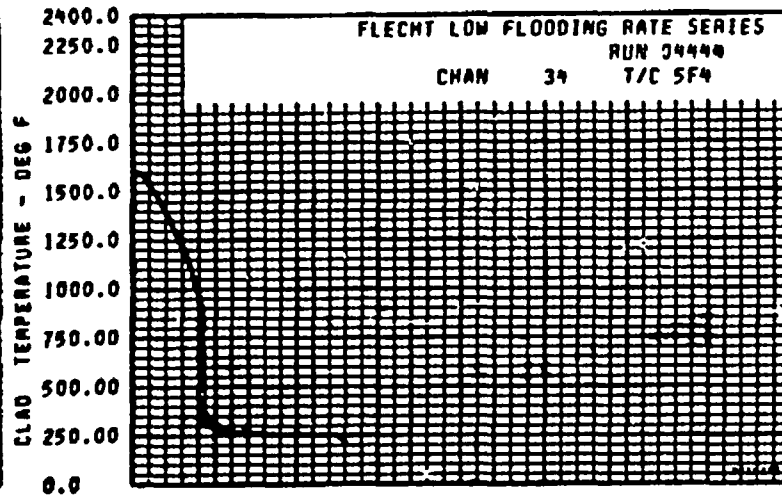
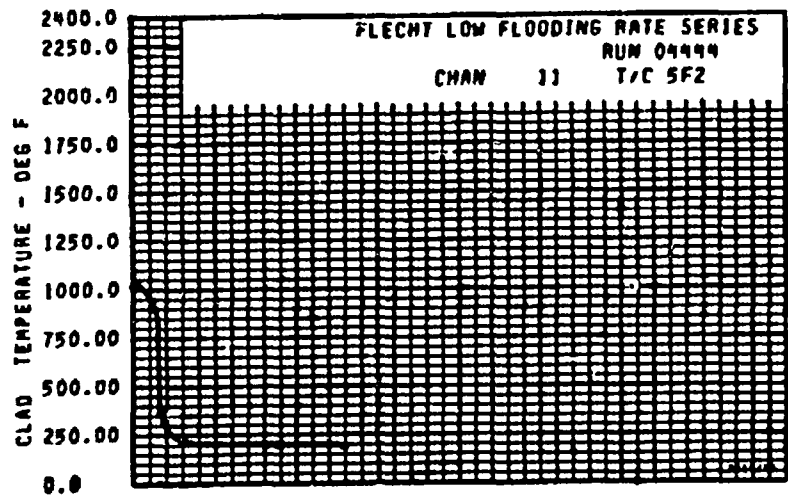
B. INITIAL HOUSING TEMPERATURE

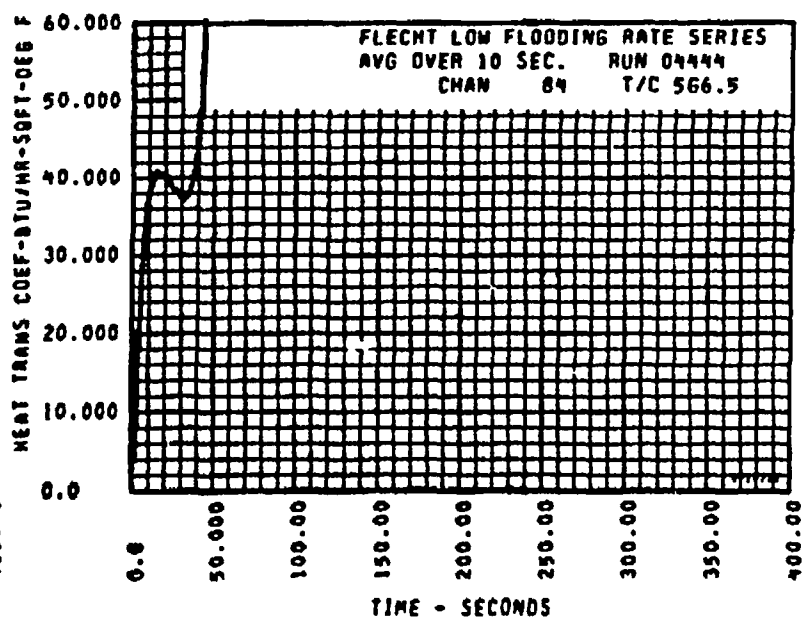
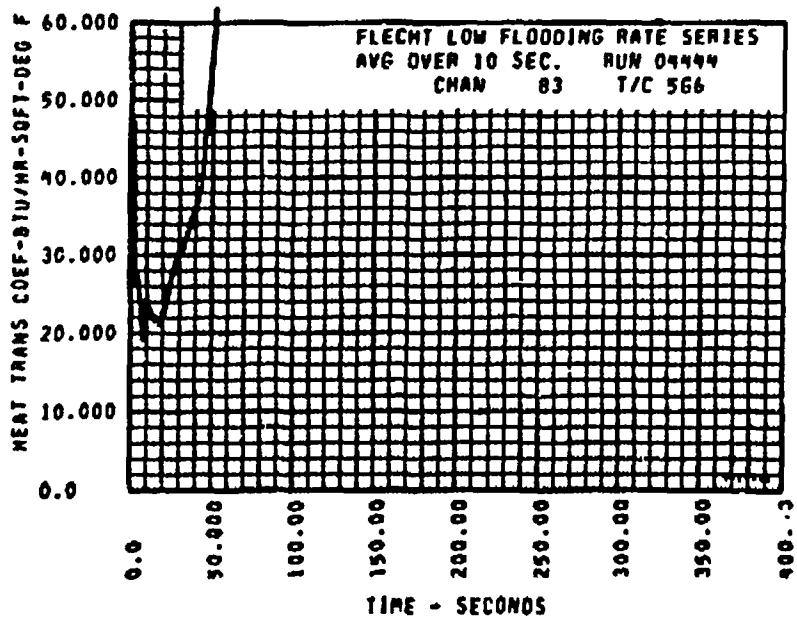
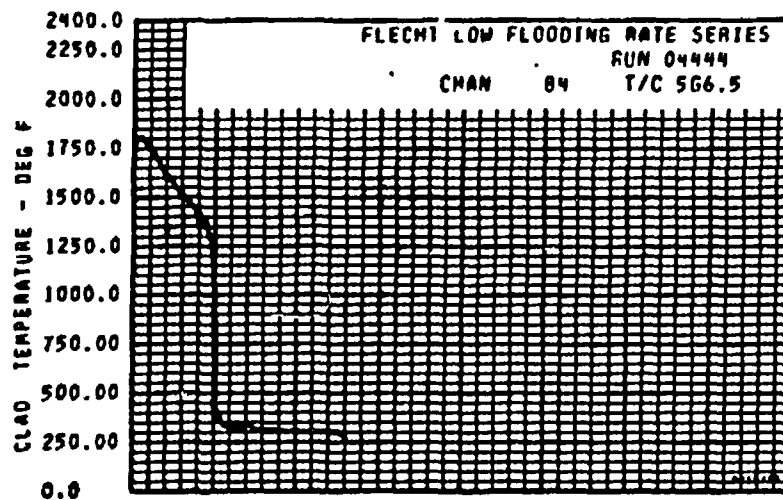
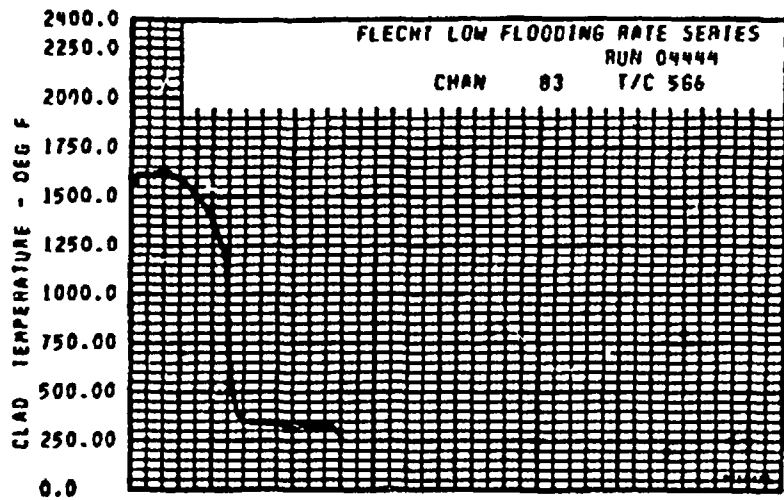
Back Side Elevation, Ft.	Temperature, °F
0	<u>273</u>
2	<u>433</u>
4	<u>533</u>
5.5	<u>555</u>
6	<u>617</u>
6.5	<u>509</u>
7	<u>510</u>
7.5	<u>506</u>
8	<u>504</u>
10	<u>441</u>
12	<u>295</u>
Average	<u>471</u>
Lower Plenum	<u>150</u>
Upper Plenum	<u>358</u>

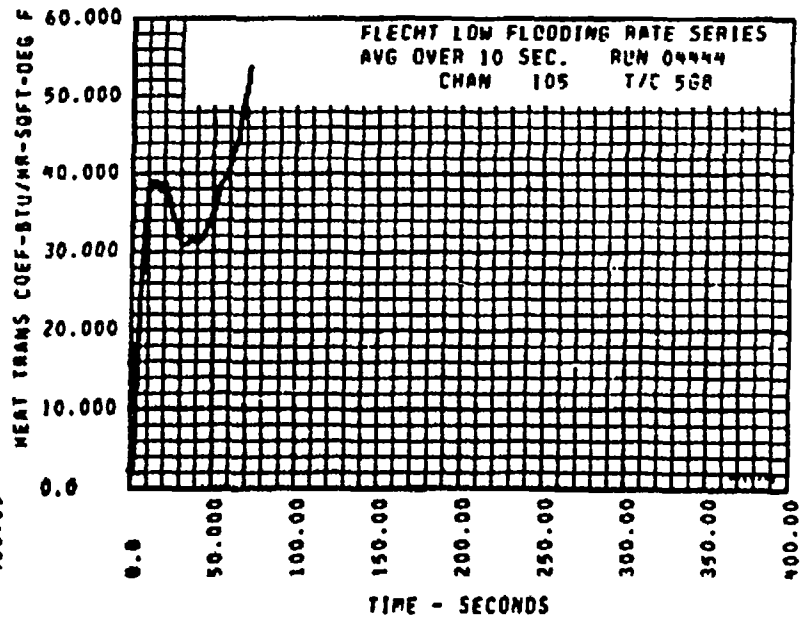
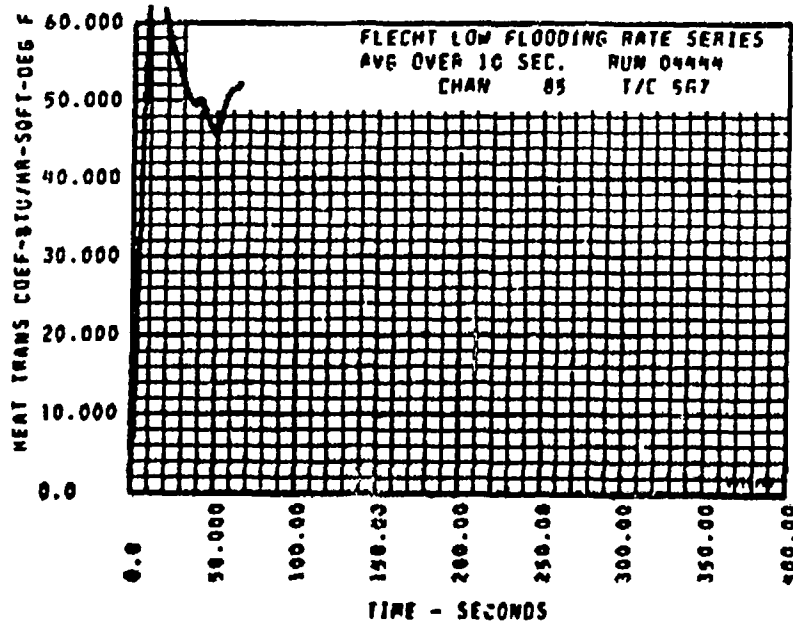
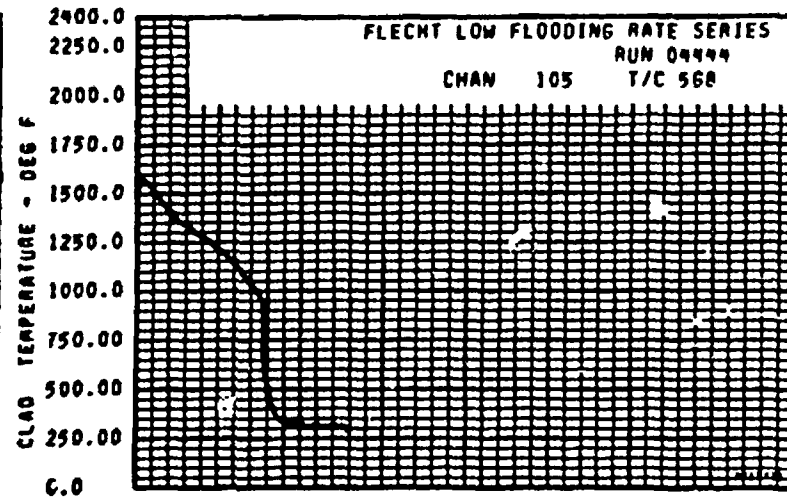
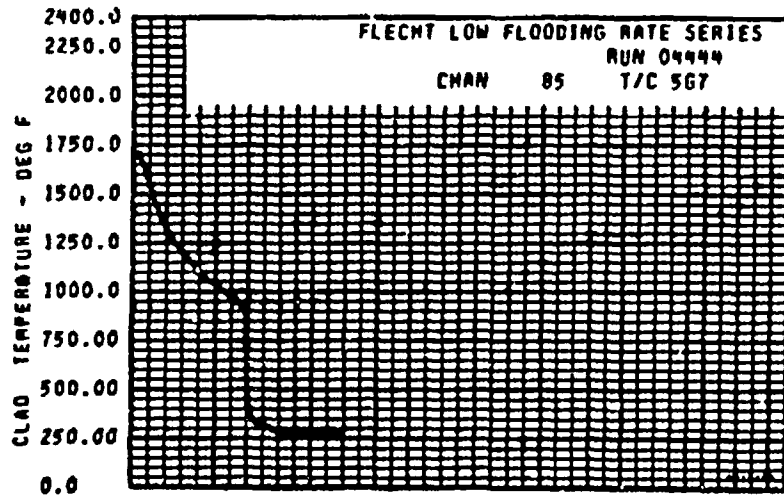
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FLEIGHT-LOW FLEIGHTING RATE ROD THERMOCOUPLE DATA

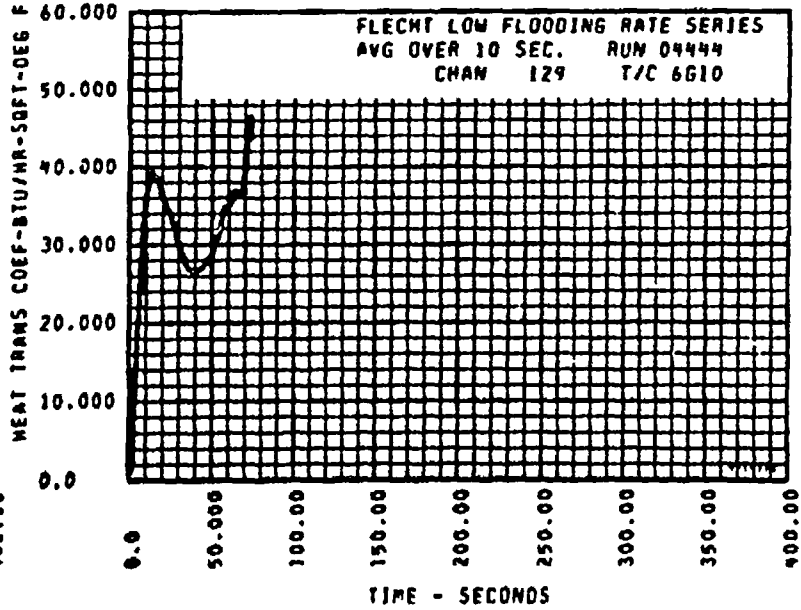
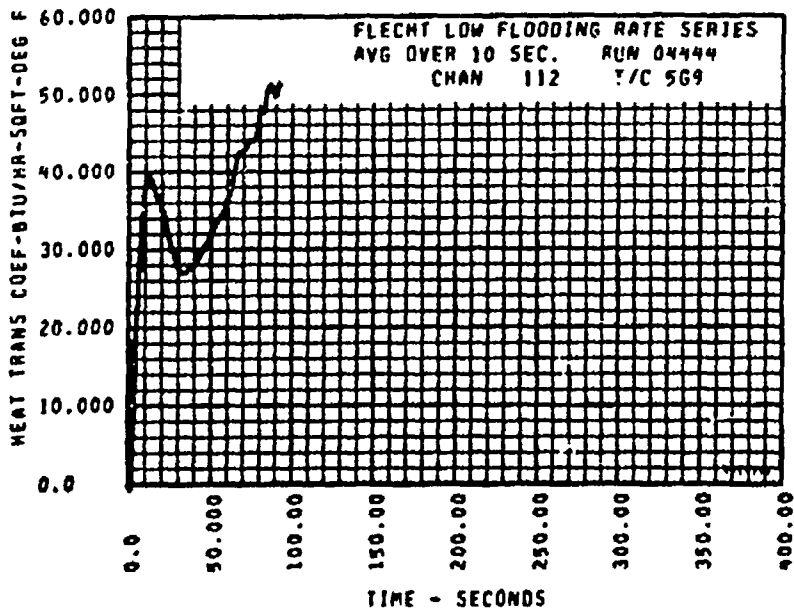
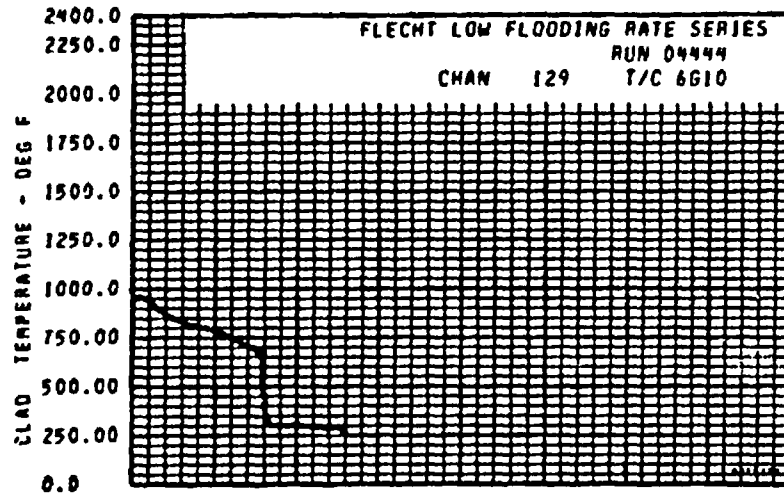
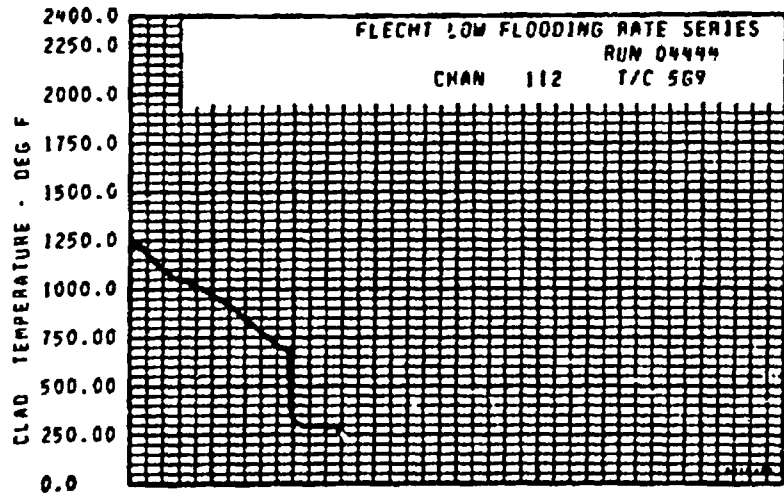
ROD/ELEV	TEMP AT (DEG.F)	TEMP (DEG.F)	INITIAL TEMPERATURE AT FLCCO (DEG.F)	DIJN NUMBER MAXIMUM TEMPERATURE (DEG.F)	8444 TEMPERATURE DISP (DEG.F)	TURNAROUND TIME (SEC.)	QUENCH TEMPERATURE (DEG.F)	QUENCH TIME (SEC.)
4M0.5	114.	-42.4	779.	739.	9.	1.4	692.	4.2
4M1	111.	-41.4	759.	773.	14.	2.2	710.	7.4
4M1.5	114.	-52.6	767.	746.	17.	2.5	789.	11.3
4M2	114.	-61.4	1024.	1049.	25.	3.1	833.	16.8
4M4	119.	-71.4	1570.	1414.	45.	3.6	958.	49.6
4M6	174.	-47.4	1415.	1471.	56.	4.0	1859.	62.8
806	117.	-52.4	1747.	1404.	47.	3.9	952.	69.7
806.5	112.	-62.6	1667.	1727.	61.	4.2	984.	76.5
807	112.	-57.4	1602.	1553.	51.	3.4	919.	81.7
808	114.	-57.4	1414.	1444.	52.	3.9	773.	91.0
809	115.	-61.6	1141.	1182.	47.	3.4	824.	102.4
8010	115.	-61.6	897.	729.	13.	3.9	647.	71.1
8011	114.	-61.6	719.	742.	23.	3.3	673.	15.3
8012	111.	-61.6	572.	591.	19.	3.6	586.	4.3
5F0	114.	-62.6	516.	516.	0.	0.2	514.	0
5F0.5	111.	-61.6	732.	740.	4.	1.2	482.	5.1
5F1	114.	-61.6	760.	772.	12.	2.0	780.	7.6
5F1.5	114.	-52.6	771.	746.	15.	5.4	677.	133.4
5F2	114.	-61.6	1010.	1033.	22.	3.3	975.	14.7
5F3	114.	-61.6	1293.	1326.	32.	3.4	913.	27.2
5F4	114.	-61.6	1568.	1612.	49.	4.0	971.	42.4
5F6	175.	-61.6	1611.	1651.	39.	5.2	1158.	55.3
5G6	175.	-61.6	1600.	1639.	27.	19.6	1155.	59.1
5G6.5	174.	-62.6	1765.	1823.	57.	3.9	1221.	49.1
5G7	111.	-62.6	1674.	1723.	49.	3.6	913.	59.4
5G8	108.	-62.6	1526.	1582.	58.	4.0	949.	77.3
5G9	111.	-61.6	1198.	1242.	46.	3.9	670.	97.8
5G11	111.	-61.6	719.	743.	24.	3.8	672.	16.9
5G12	112.	-62.6	609.	700.	22.	4.2	571.	26.5
1C4	110.	-62.6	1466.	1496.	31.	3.4	945.	38.1
1C6	114.	-61.6	1708.	1748.	40.	3.6	869.	78.5
1C10	122.	-61.6	884.	911.	27.	4.0	535.	59.9
3M2	111.	-62.6	1070.	1062.	24.	3.0	879.	14.5
3M6	179.	-61.6	1600.	1662.	62.	4.0	1063.	62.9
3M8	110.	-61.6	1926.	1983.	57.	4.2	922.	76.0
3M10	140.	-61.6	971.	1008.	37.	4.0	654.	91.1
4G2	116.	-62.6	1054.	1080.	26.	3.0	884.	15.1
4G4	112.	-62.6	1623.	1667.	44.	3.4	884.	41.5
4G6	110.	-62.6	1987.	1983.	59.	3.9	1116.	56.8
4G8	109.	-62.6	1663.	1619.	38.	4.2	1132.	38.9
4G10	126.	-62.6	974.	1009.	34.	4.0	663.	78.2

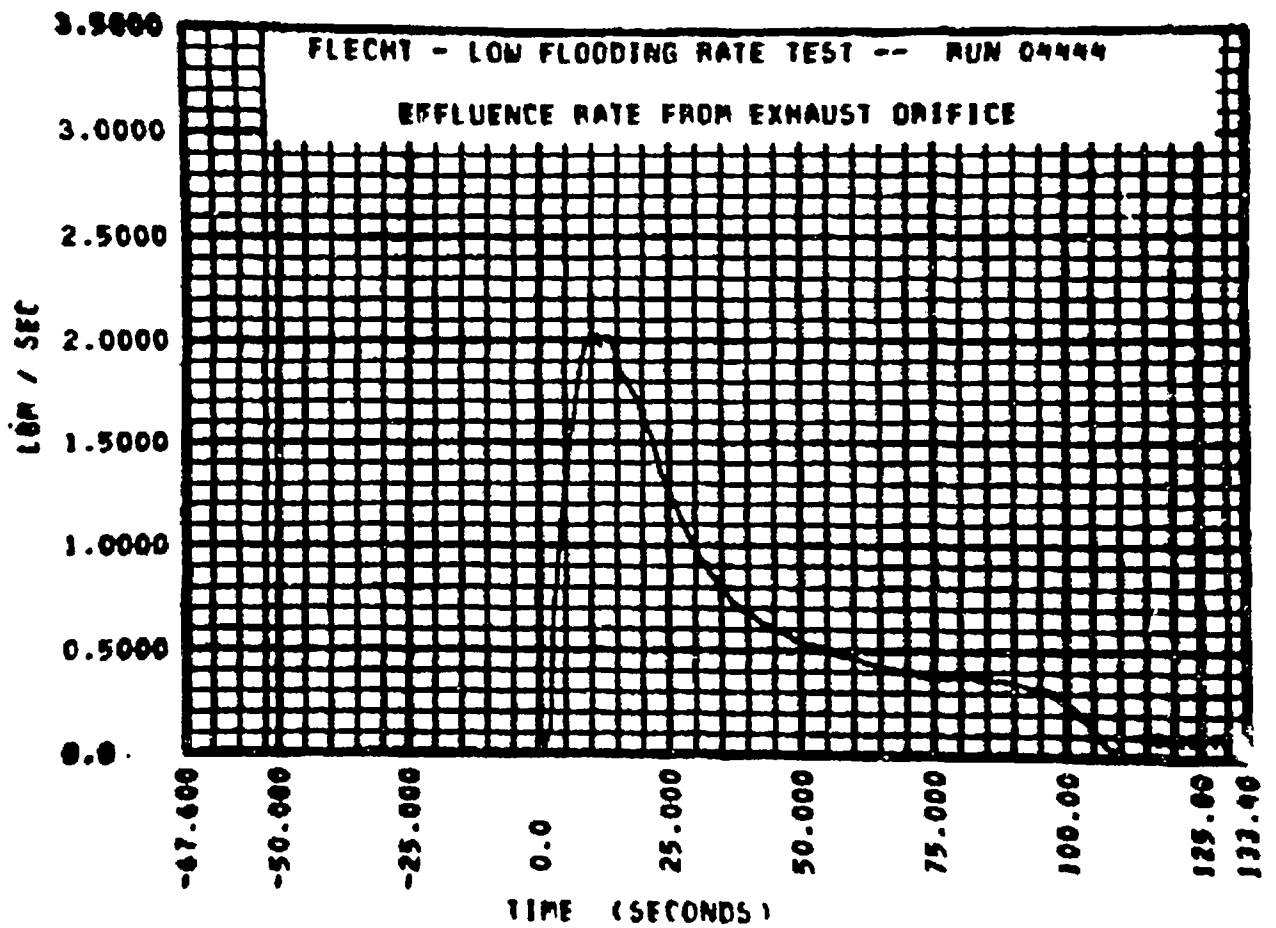
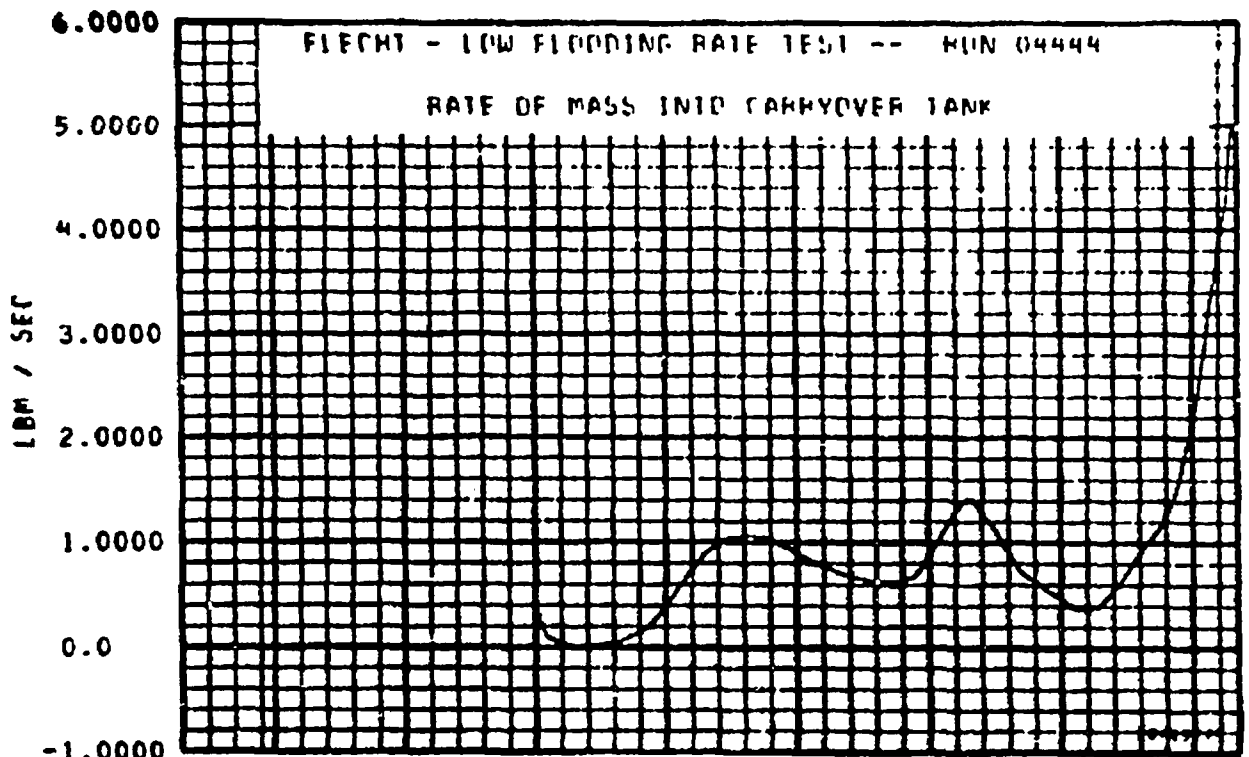


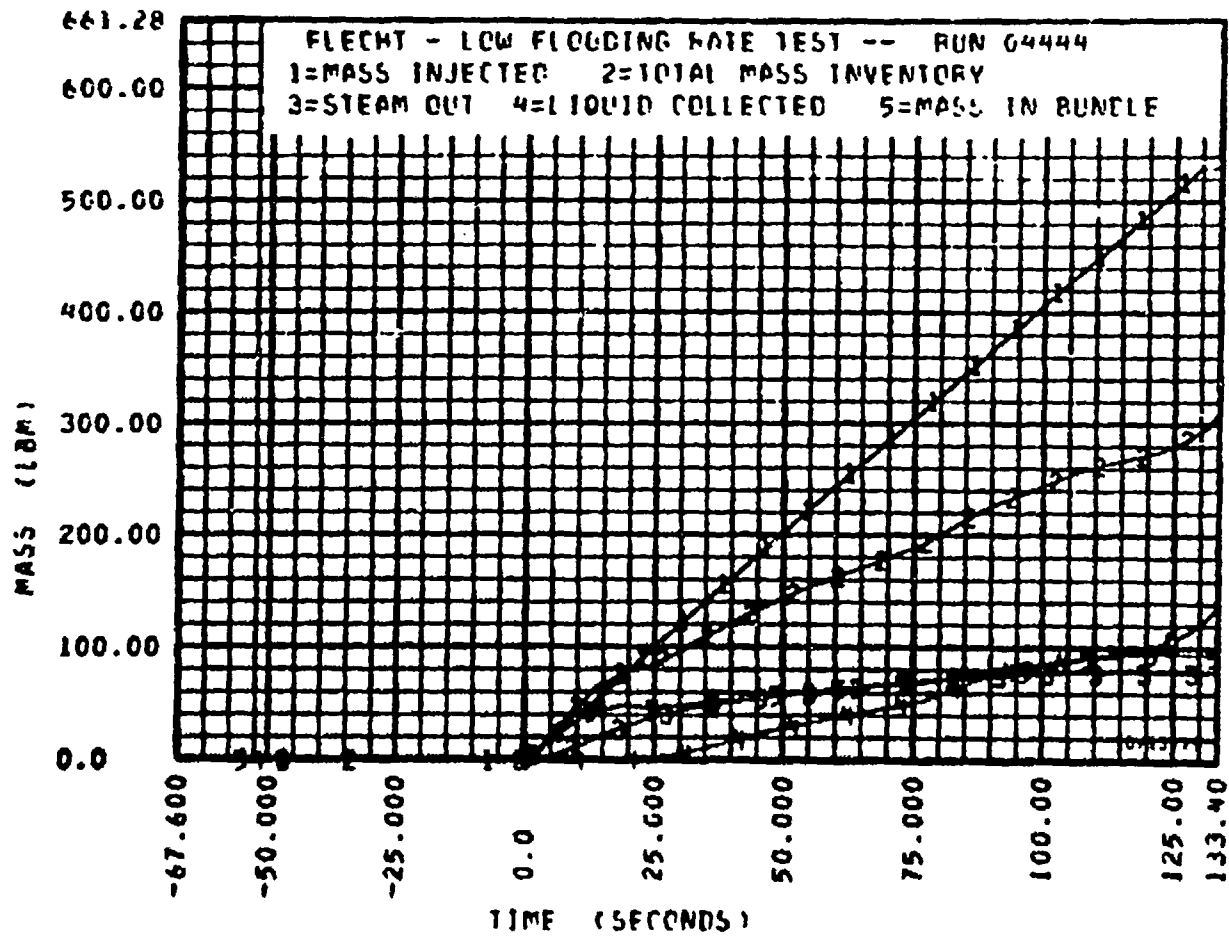




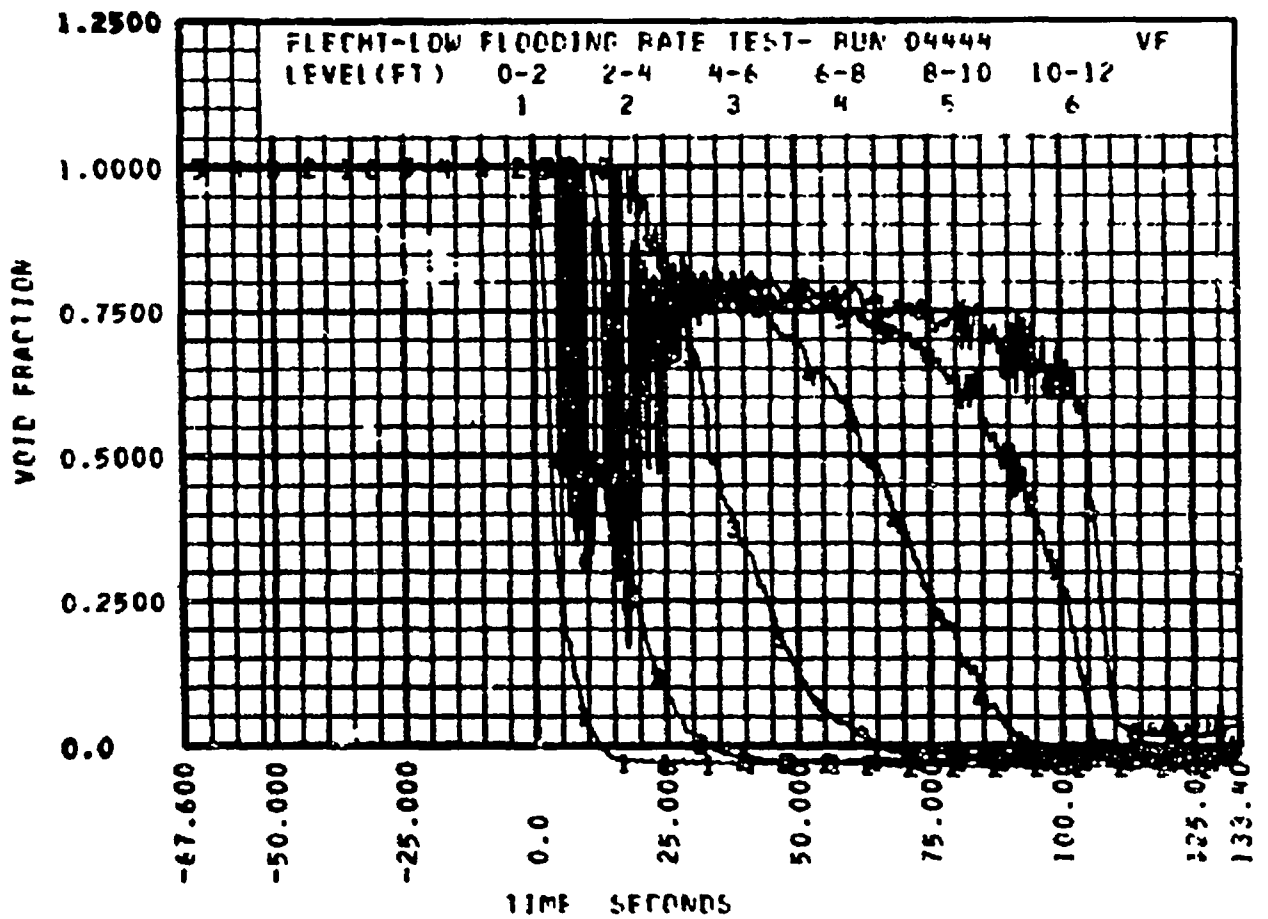
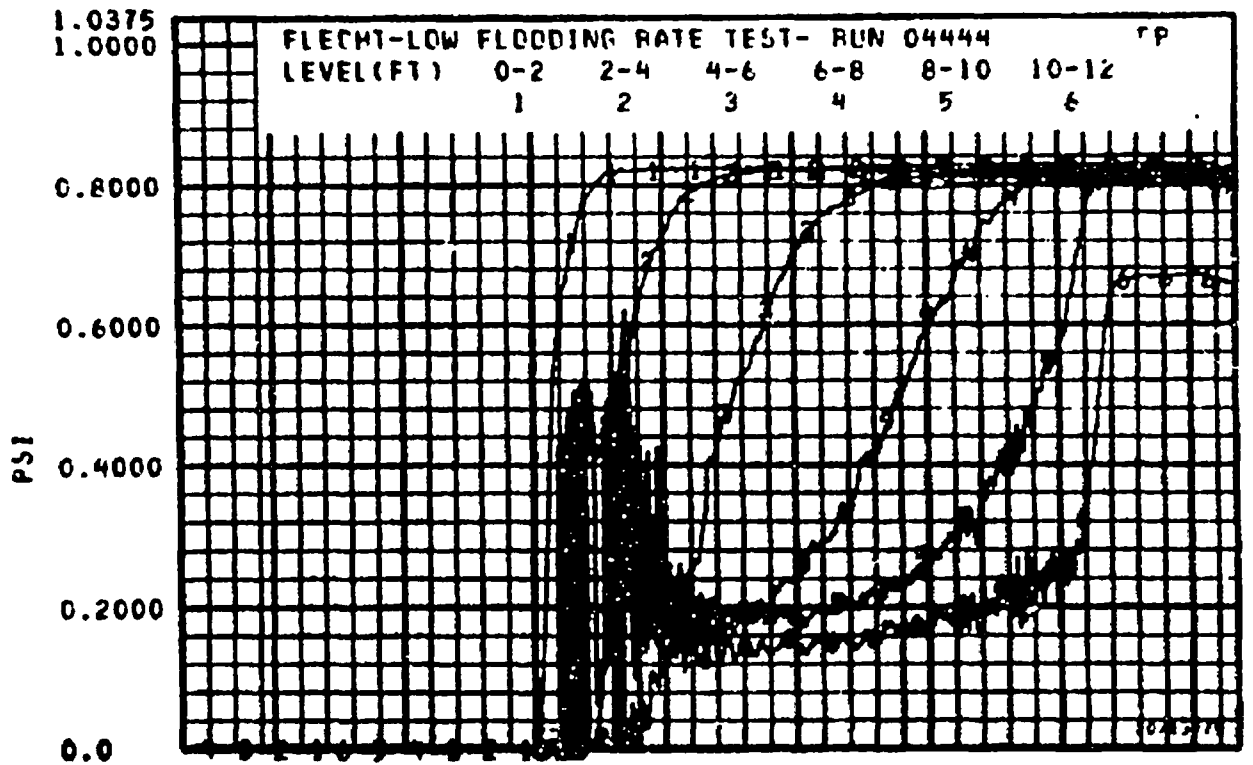
This report was prepared by the Health, Safety, and Environment Division of the U.S. Nuclear Energy Research Administration, Office of Biological and Environmental Research, under contract number DE-AC02-76SF00080.

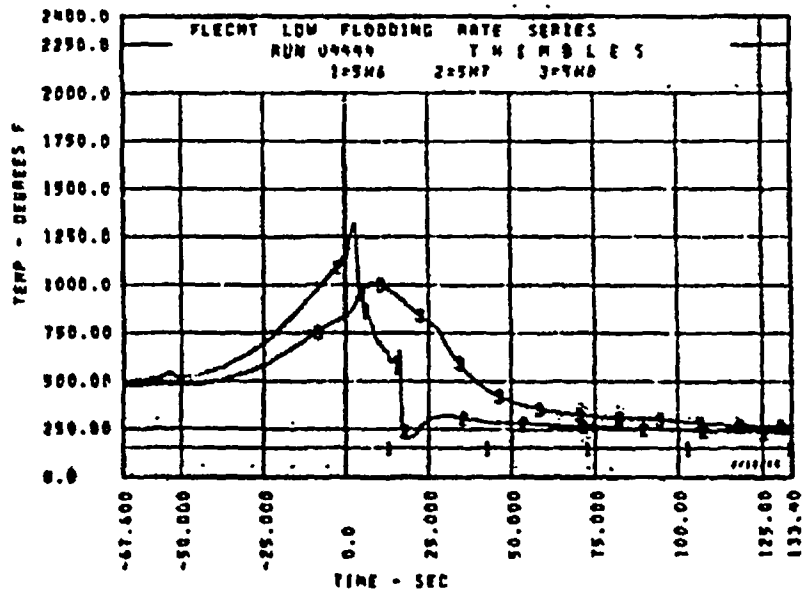
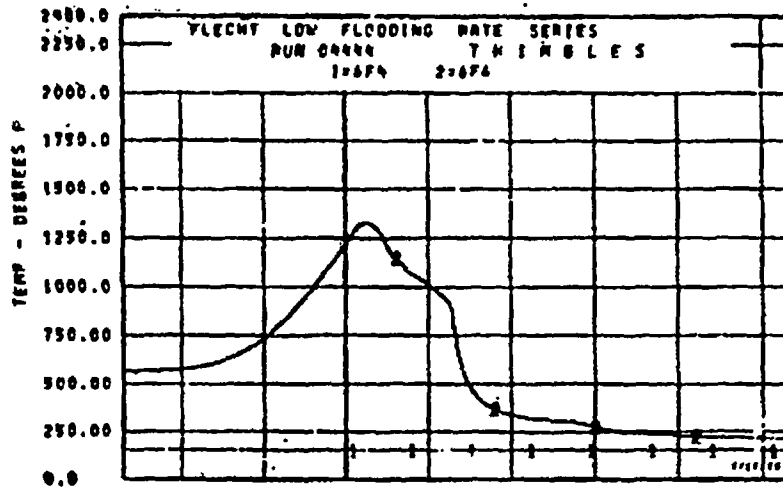
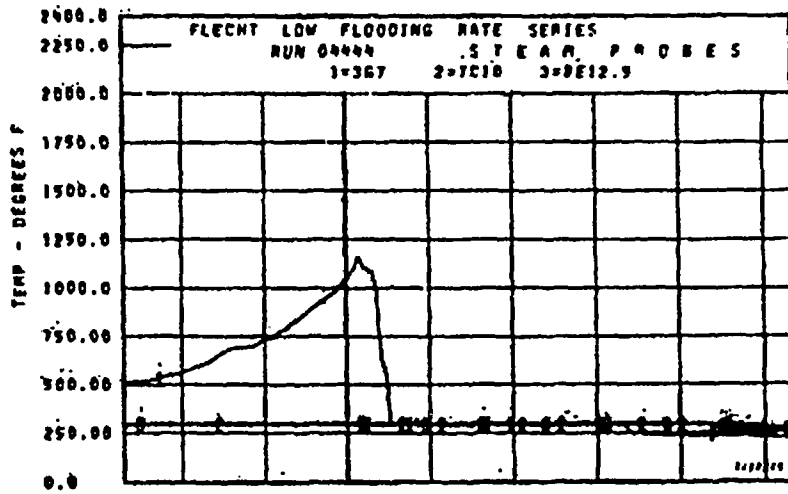


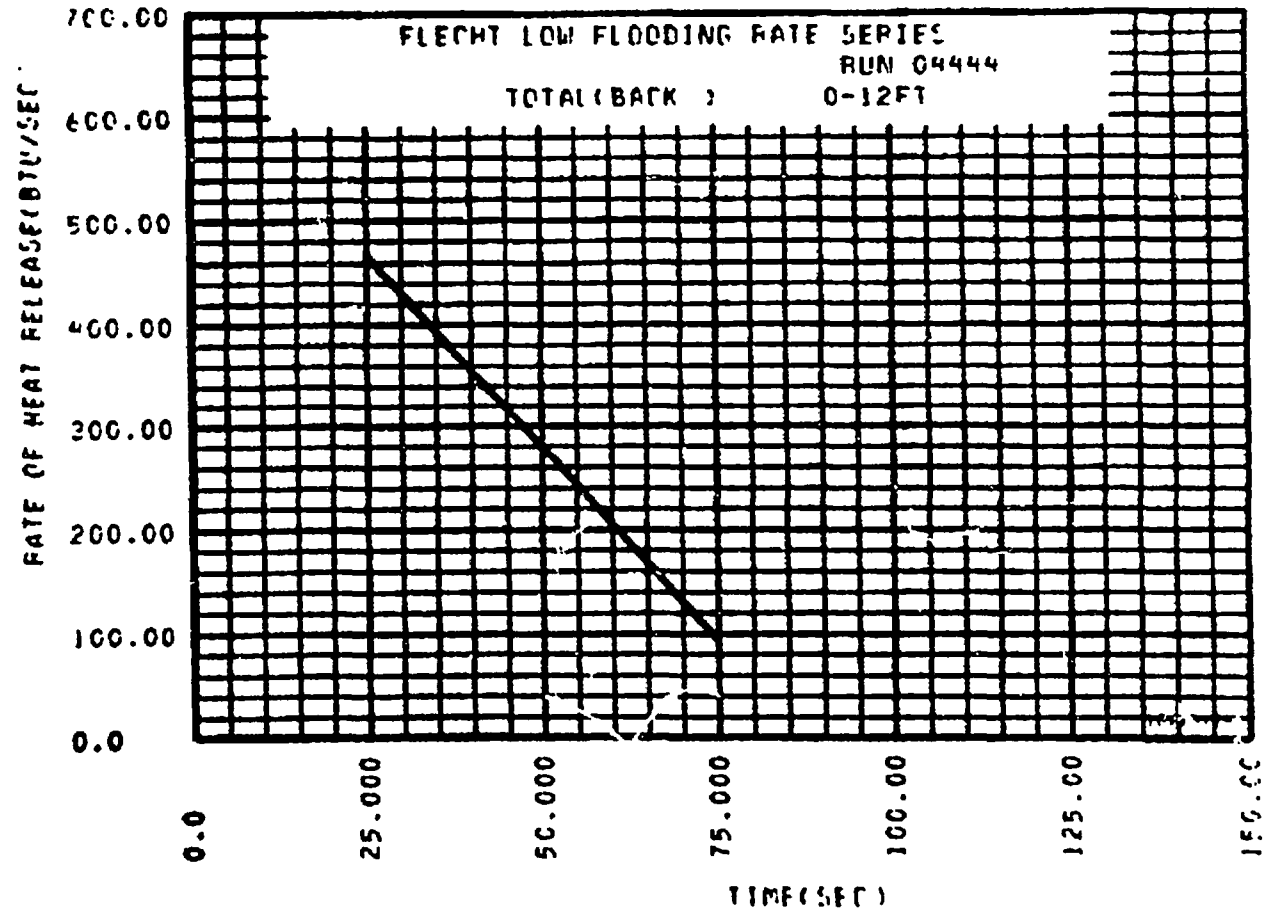
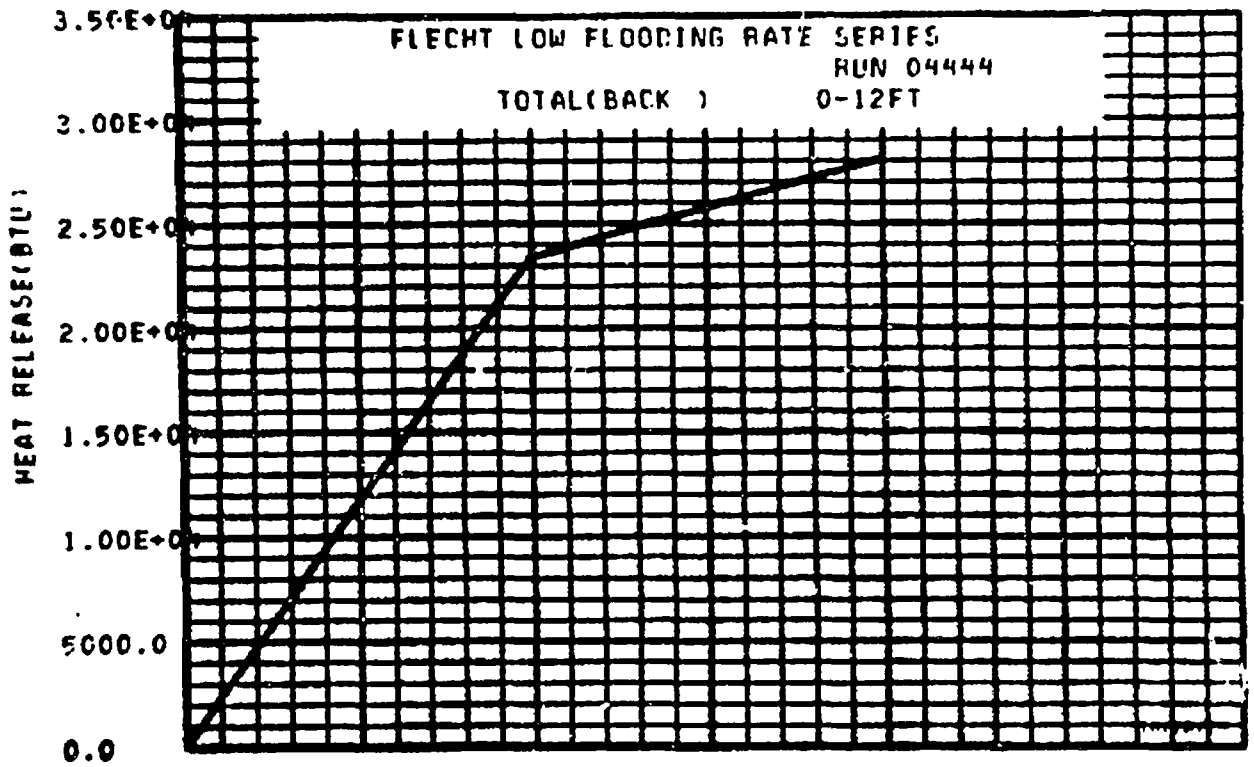




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FLECHT - LOW FLOODING RATE TEST

SUMMARY SHEET

COSINE AXIAL POWER PROFILE

RUN NO. 04516

DATE: 5/5/75

A. RUN CONDITIONS

Upper Plenum Pressure, psia	<u>39</u>	
Initial Clad Temperature (6 Ft) ^{°F} At Flood	<u>1,601</u>	Rod T/C .. <u>4H6</u>
Rod Peak Power, kw/ft	<u>0.95</u>	
Flooding Rate, in/sec	<u>6 (5 sec)</u>	
	<u>0.8</u>	
	<u>----</u>	
Coolant Temperature, °F	<u>131</u>	
Bundle Radial Power Profile	<u>FLECHT</u>	
Disconnected Rods	<u>7F</u>	

B. INITIAL HOUSING TEMPERATURE

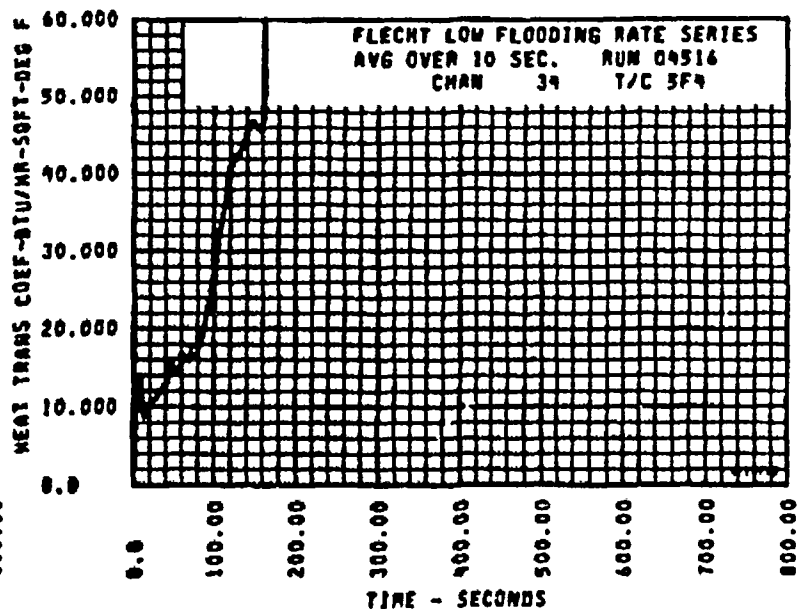
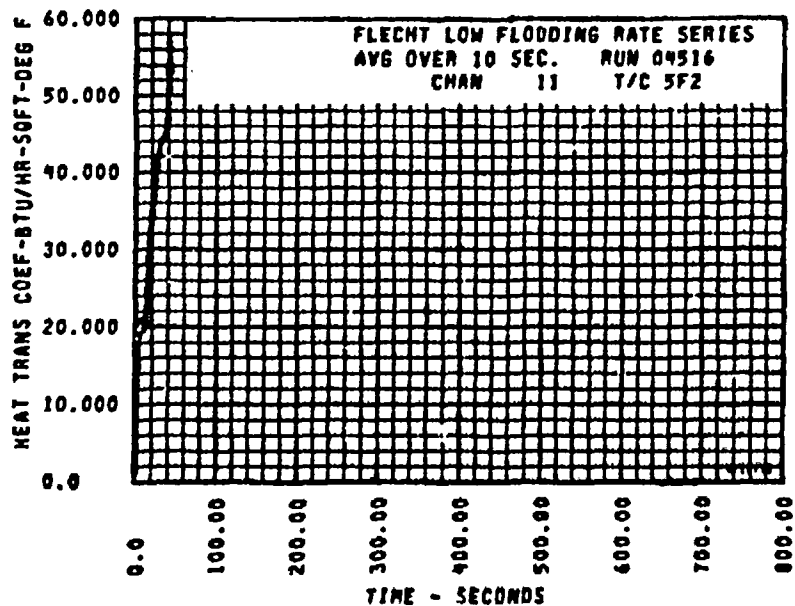
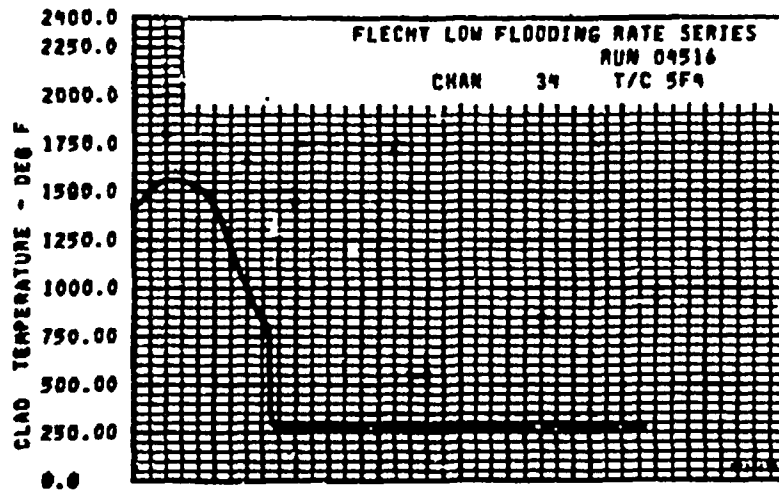
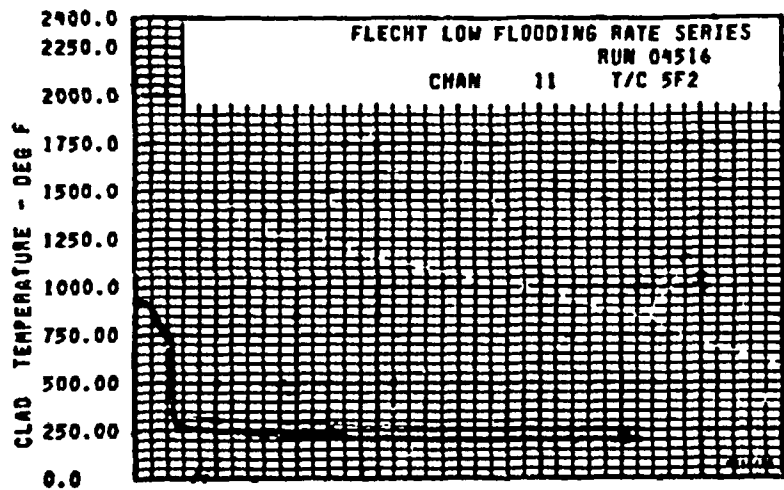
Back Side Elevation, Ft.	Temperature, °F
0	<u>248</u>
2	<u>570</u>
4	<u>735</u>
5.5	<u>819</u>
6	<u>820</u>
6.5	<u>676</u>
7	<u>684</u>
7.5	<u>702</u>
8	<u>750</u>
10	<u>588</u>
12	<u>278</u>
Average	<u>625</u>
Lower Plenum	<u>124</u>
Upper Plenum	<u>366</u>

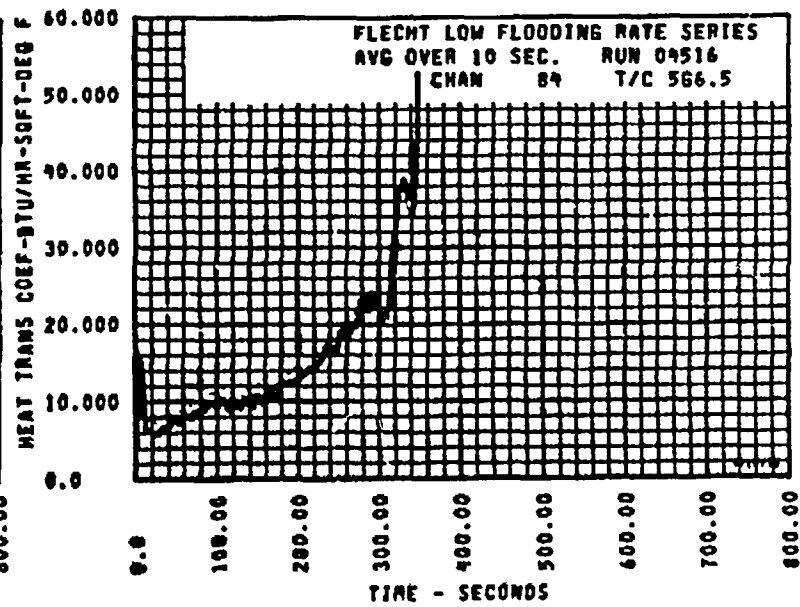
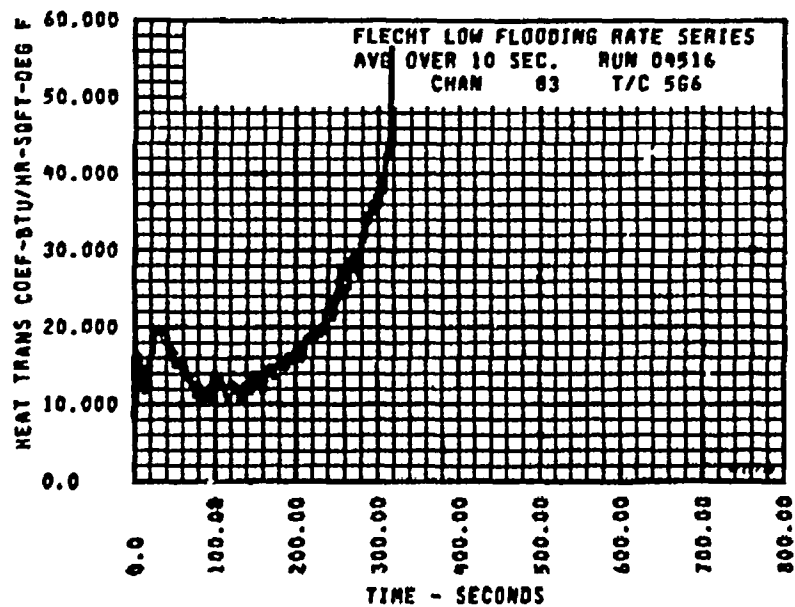
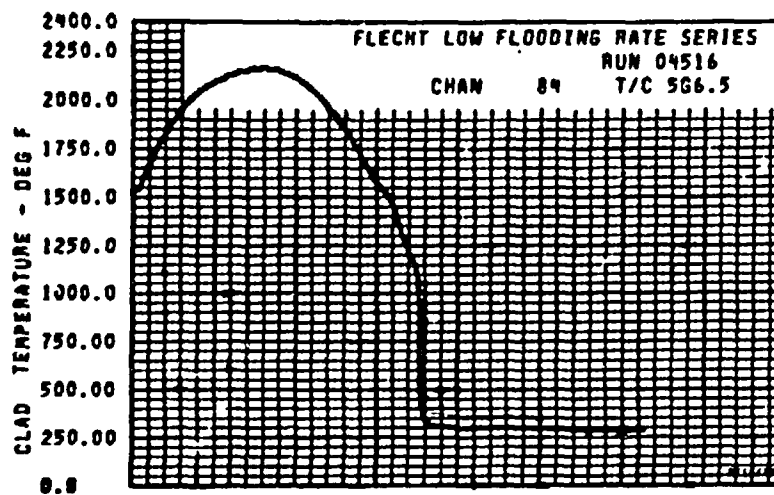
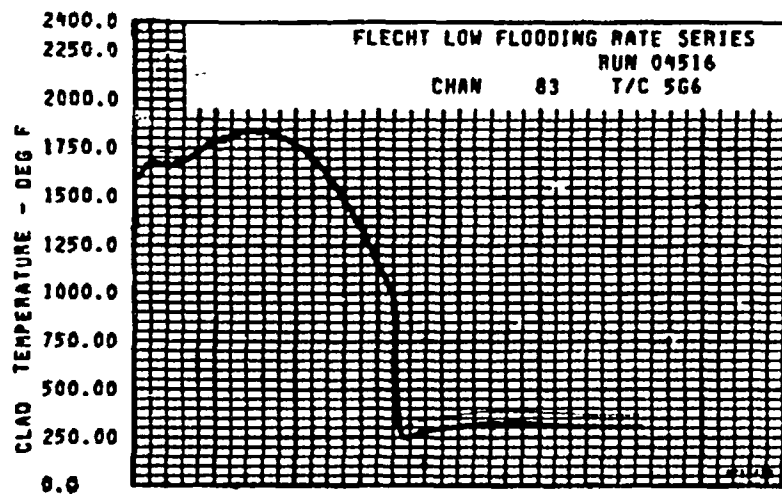
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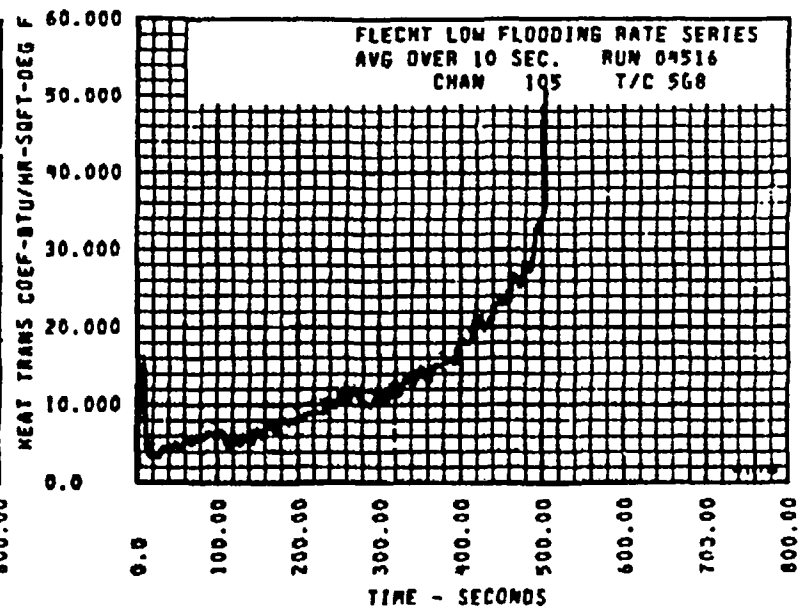
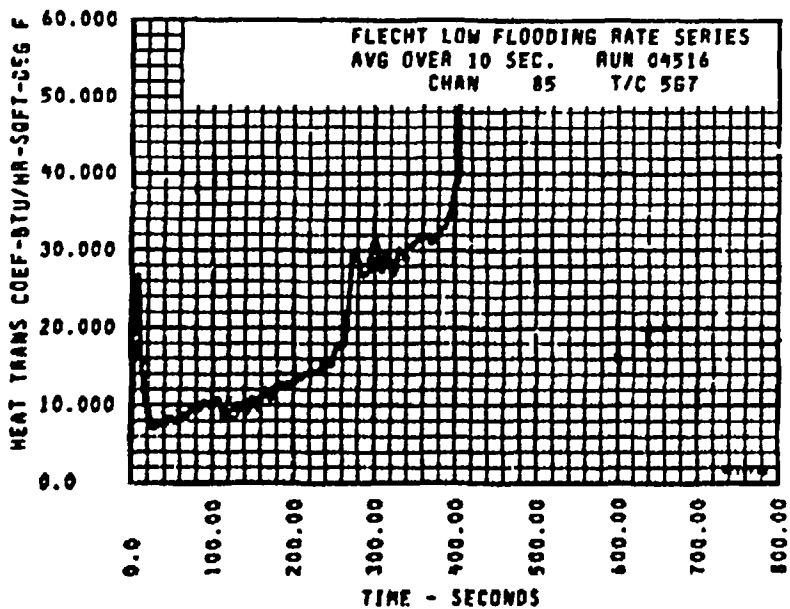
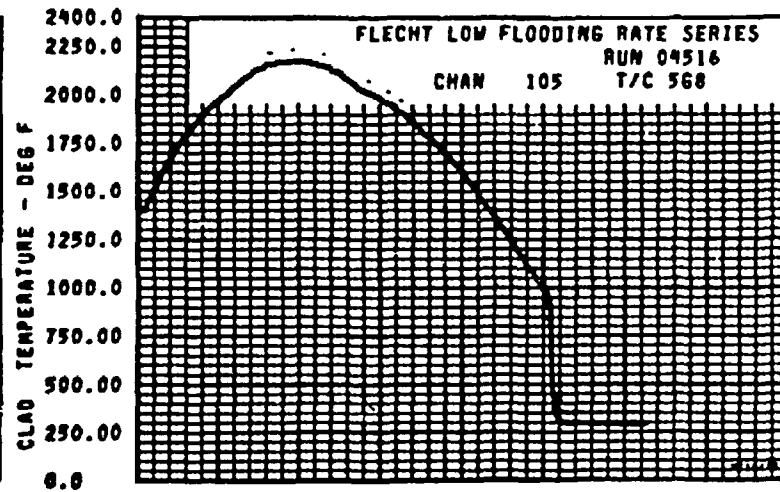
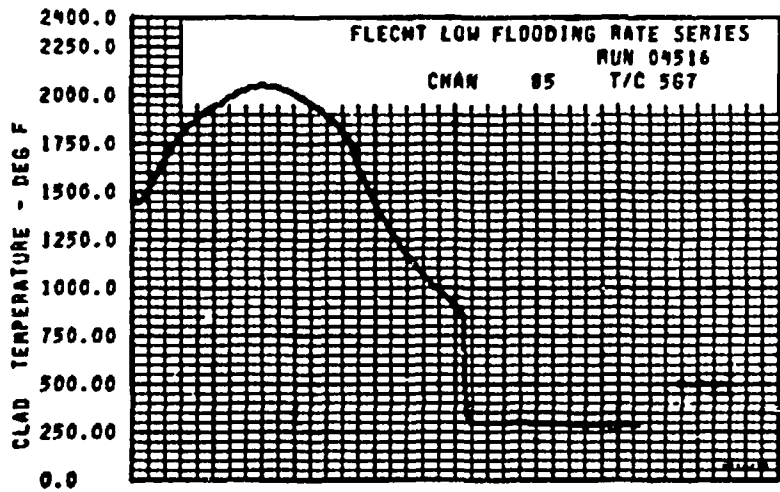
FLECHT-LOW FLOODING RATE ROD THERMOCOUPLE DATA

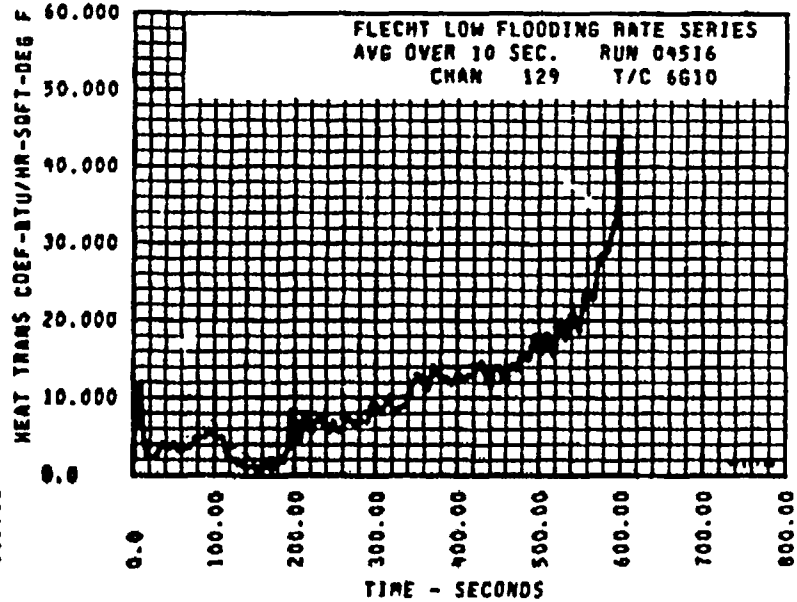
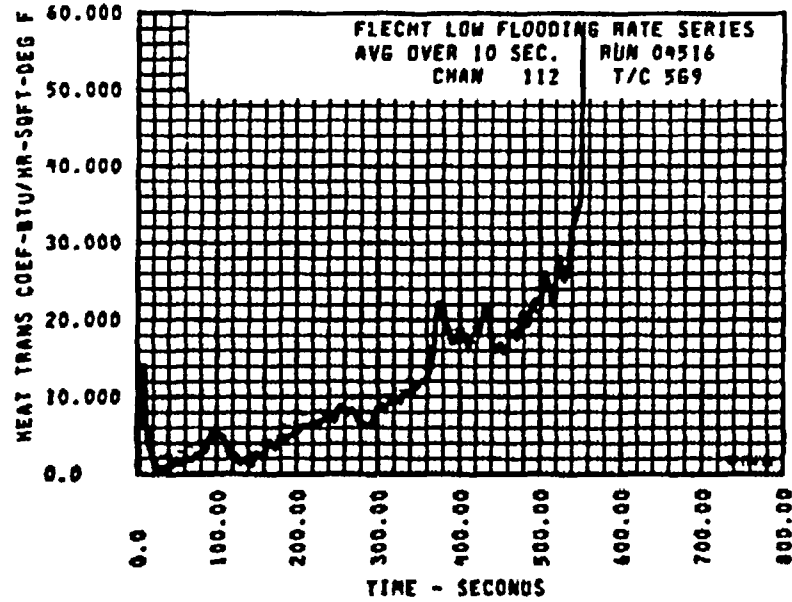
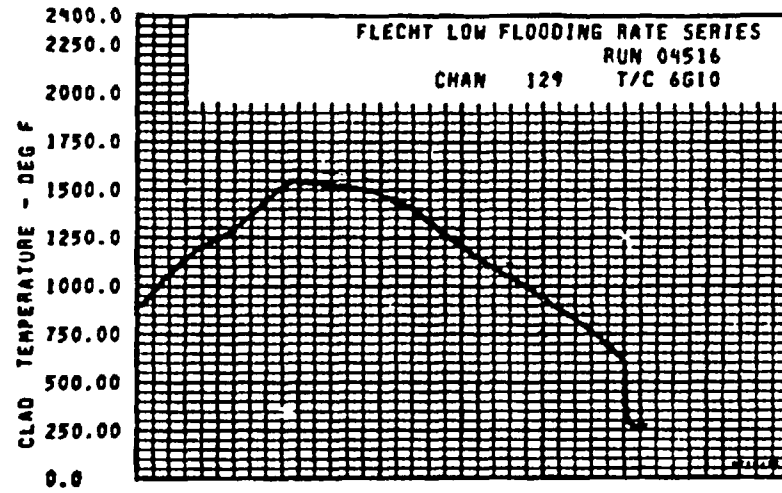
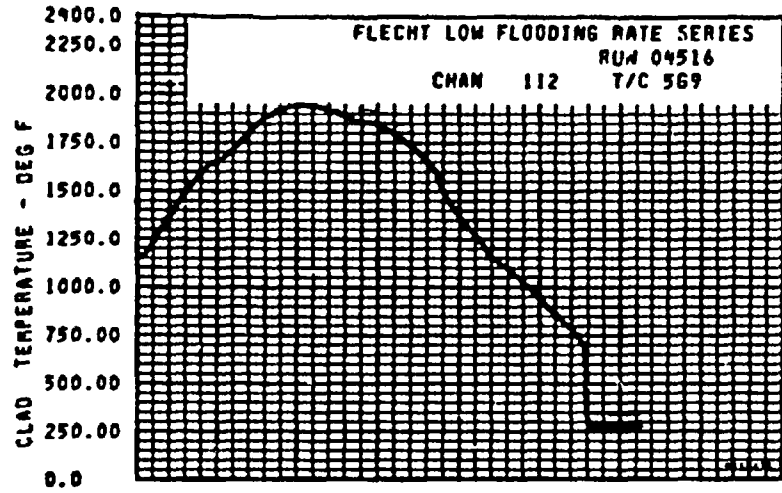
ROD/ELEV	TEMPERATURE AT POWER ON (DEG.F)	TIME OF POWER ON (SEC.)	INITIAL TEMPERATURE AT FLOOD (DEG.F)	MAXIMUM TEMPERATURE (DEG.F)	04516 TEMPERATURE RISE (DEG.F)	TURNAROUND TIME (SEC.)	QUENCH TEMPERATURE (DEG.F)	QUENCH TIME (SEC.)
4M0.5	120.	-78.8	619.	625.	6.	1.2	587.	4.0
4M1	134.	-53.4	645.	693.	4.	1.6	618.	11.1
4M1.5	474.	-57.4	743.	749.	9.	2.0	649.	23.9
4M2	560.	-71.8	965.	979.	14.	2.2	744.	43.9
4M4	717.	-79.8	1429.	1896.	169.	55.9	871.	165.9
4M6	744.	-83.4	1401.	2097.	496.	117.2	975.	333.5
806	667.	-79.8	1510.	2111.	501.	119.5	941.	421.7
806.5	452.	-77.4	1451.	2032.	581.	133.0	844.	390.8
807	444.	-79.4	1424.	1997.	473.	145.7	787.	431.7
808	419.	-55.4	1342.	1994.	654.	174.0	856.	514.6
809	417.	-74.4	1048.	1704.	654.	201.7	840.	498.6
8010	345.	-79.8	769.	1493.	714.	213.3	956.	397.7
8011	275.	-79.4	574.	893.	315.	147.3	763.	165.6
8012	172.	-74.4	459.	495.	437.	176.7	733.	262.8
5F0	213.	-79.8	401.	402.	0.	0.2	402.	0.5
5F0.5	133.	-74.4	404.	514.	6.	1.2	440.	4.0
5F1	174.	-71.4	665.	672.	7.	1.6	594.	10.9
5F1.5	4	0	0	0	0	0	0	0
5F2	511.	-74.4	932.	946.	14.	2.6	675.	46.0
5F3	477.	-74.4	1133.	1243.	51.	19.6	729.	96.1
5F4	747.	-74.4	1426.	1570.	144.	55.7	779.	169.7
5F6	724.	-57.4	1557.	1717.	174.	160.3	1053.	316.3
5G6	724.	-71.4	1597.	1955.	264.	141.0	938.	321.9
5G6.5	549.	-77.4	1520.	2171.	456.	141.0	1048.	353.9
5G7	671.	-74.4	1484.	2057.	591.	161.0	865.	418.0
5G8	734.	-77.4	1397.	2147.	750.	194.0	929.	389.9
5G9	123.	-71.4	1131.	1744.	704.	201.3	862.	457.4
5G11	174.	-74.4	673.	1170.	500.	191.3	508.	403.6
5G12	174.	-74.4	554.	1227.	473.	138.0	570.	483.9
1G4	714.	-74.4	1341.	1734.	44.	77.4	902.	125.9
1G6	717.	-74.4	1571.	1774.	224.	94.4	945.	312.3
1G10	577.	-74.4	904.	1127.	217.	117.3	641.	446.0
3M2	344.	-74.4	407.	441.	14.	2.4	724.	30.9
3M6	704.	-74.4	1505.	2070.	435.	118.3	984.	325.6
3M8	707.	-74.4	1377.	2077.	479.	178.3	873.	402.9
3M10	577.	-74.4	907.	1541.	414.	174.3	1012.	449.7
4F2	711.	-71.4	497.	606.	12.	2.2	657.	42.9
4F4	712.	-71.4	1374.	1573.	139.	55.4	825.	152.2
4F6	717.	-71.4	1573.	2120.	551.	146.7	1039.	378.6
4F8	717.	-71.4	1863.	2321.	455.	207.7	1265.	459.7
4F10	577.	-74.4	919.	1747.	224.	215.3	677.	484.9

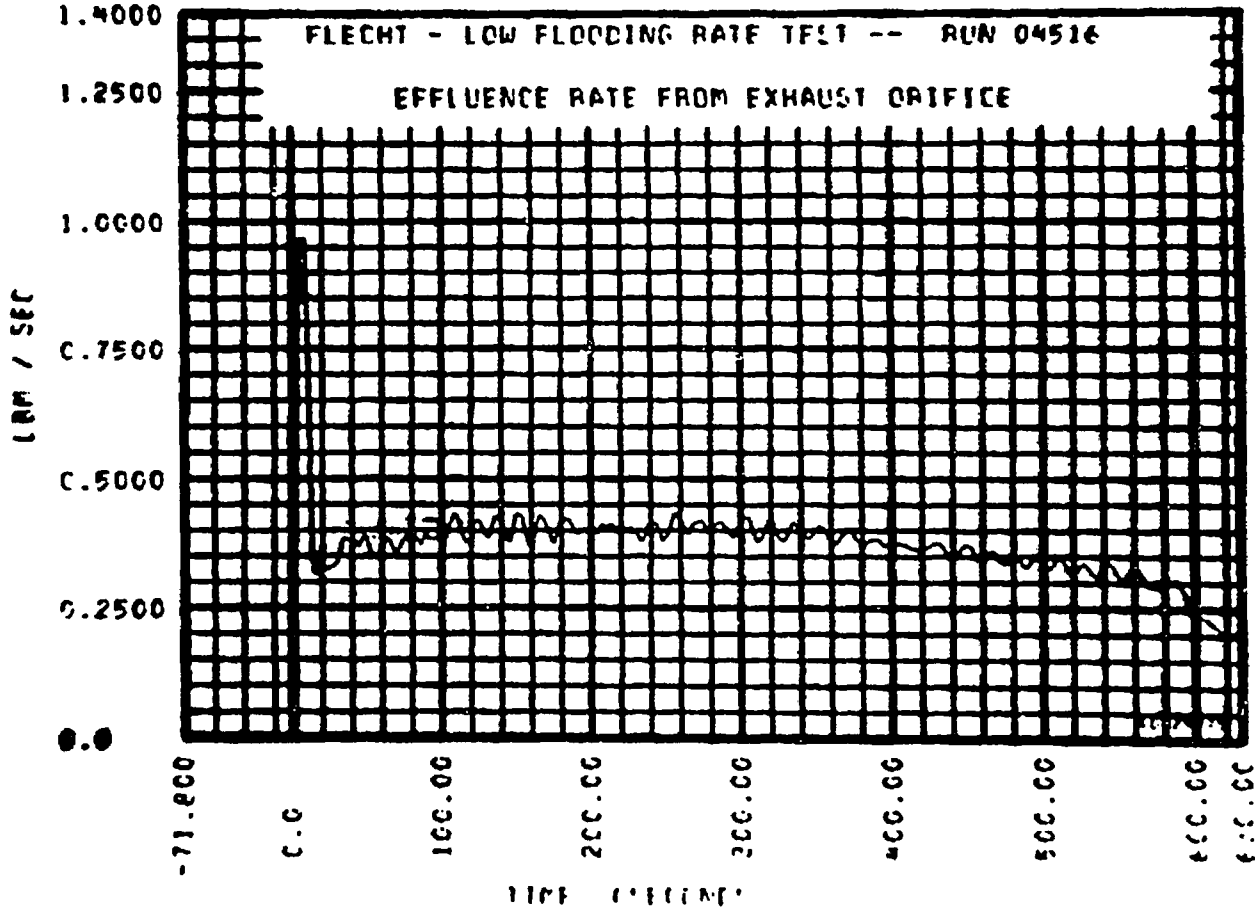
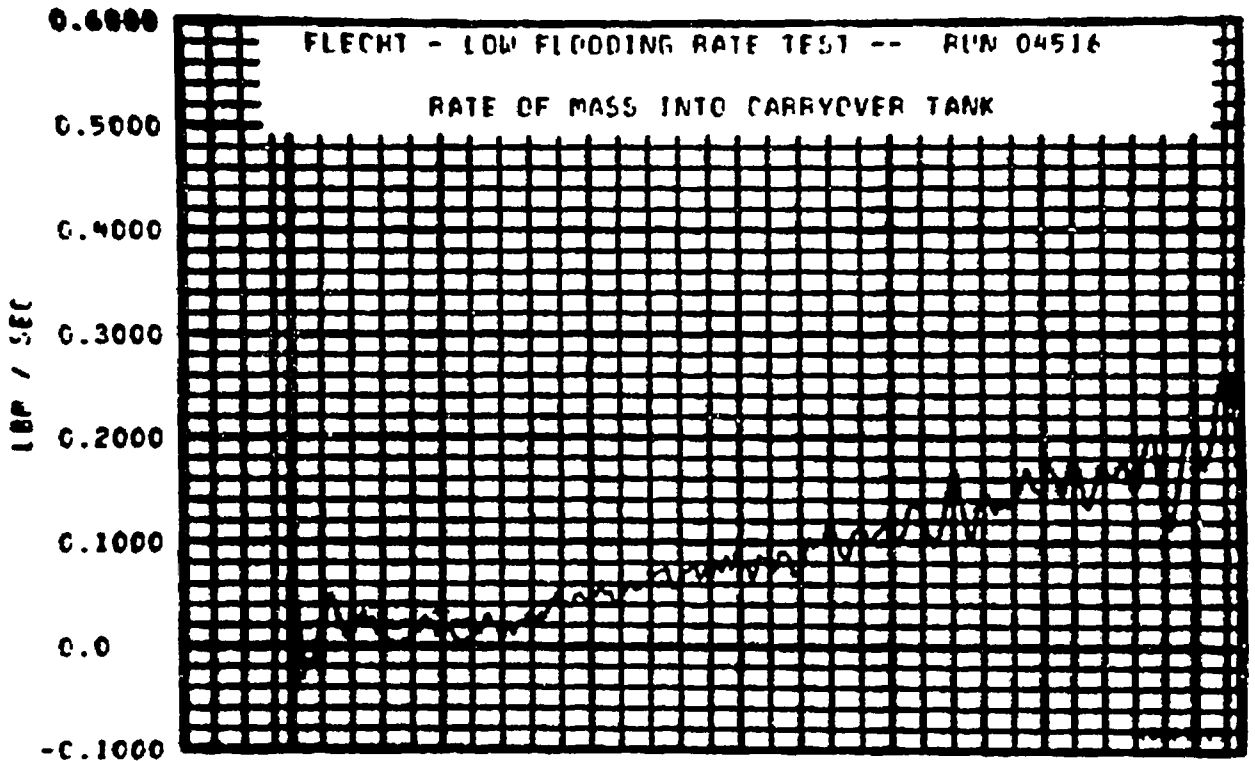


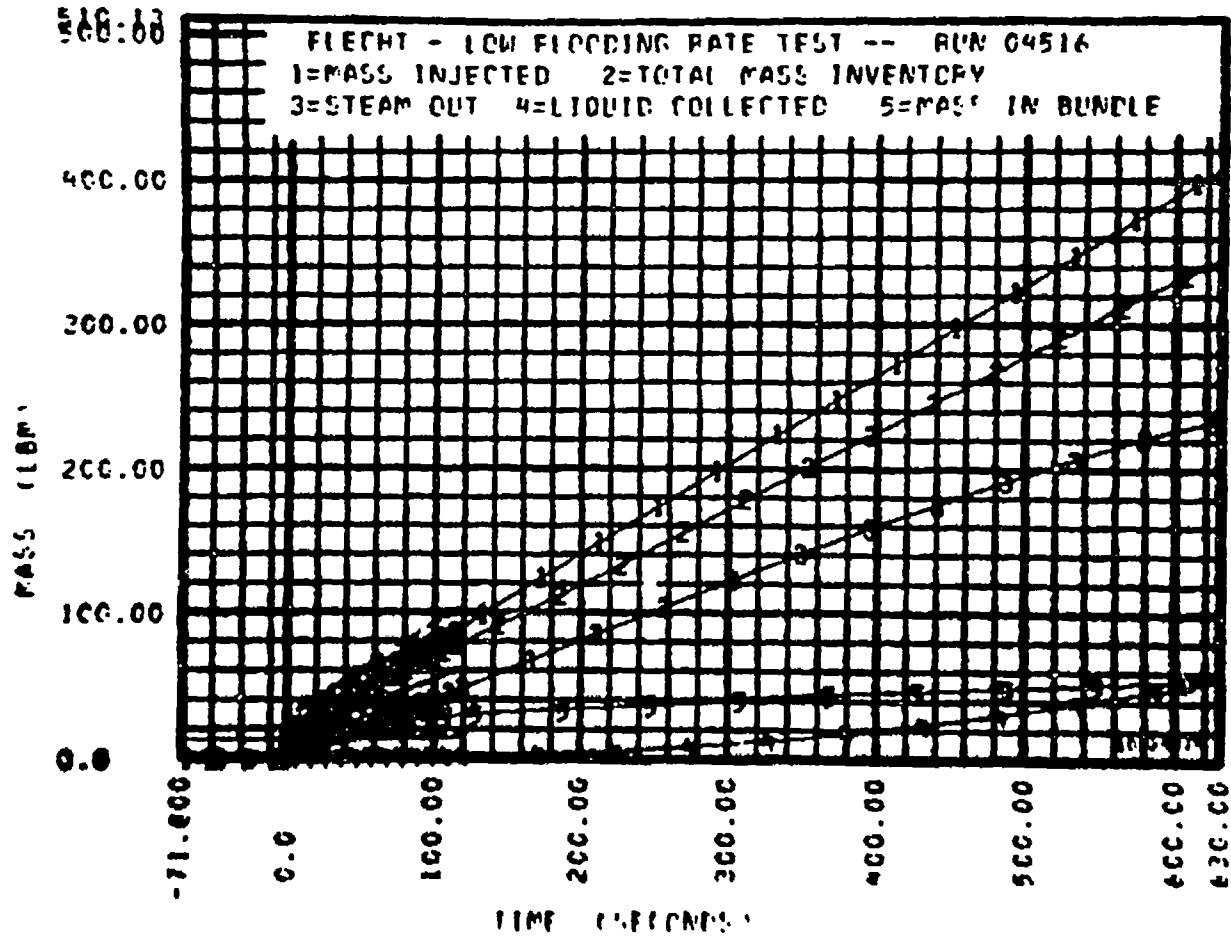


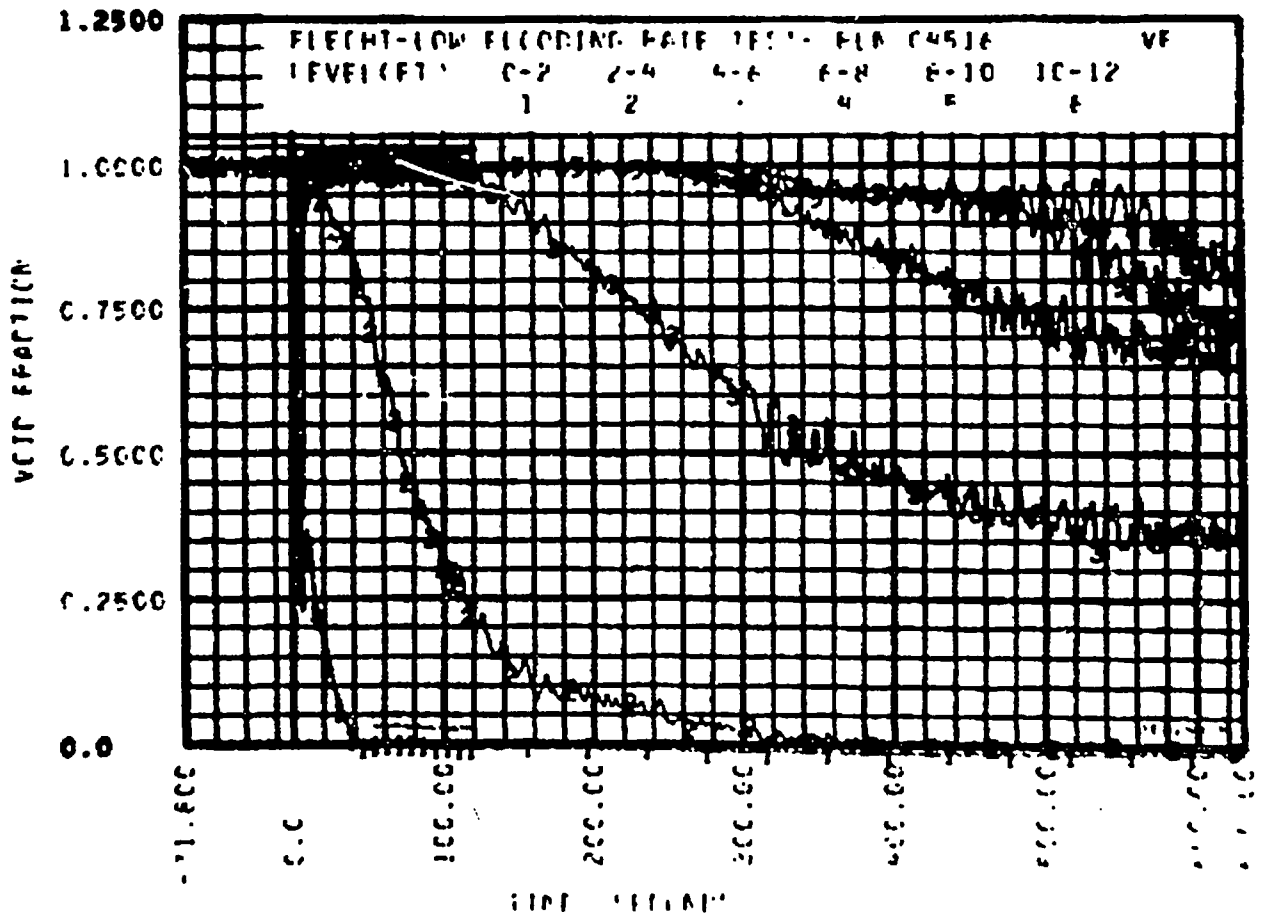
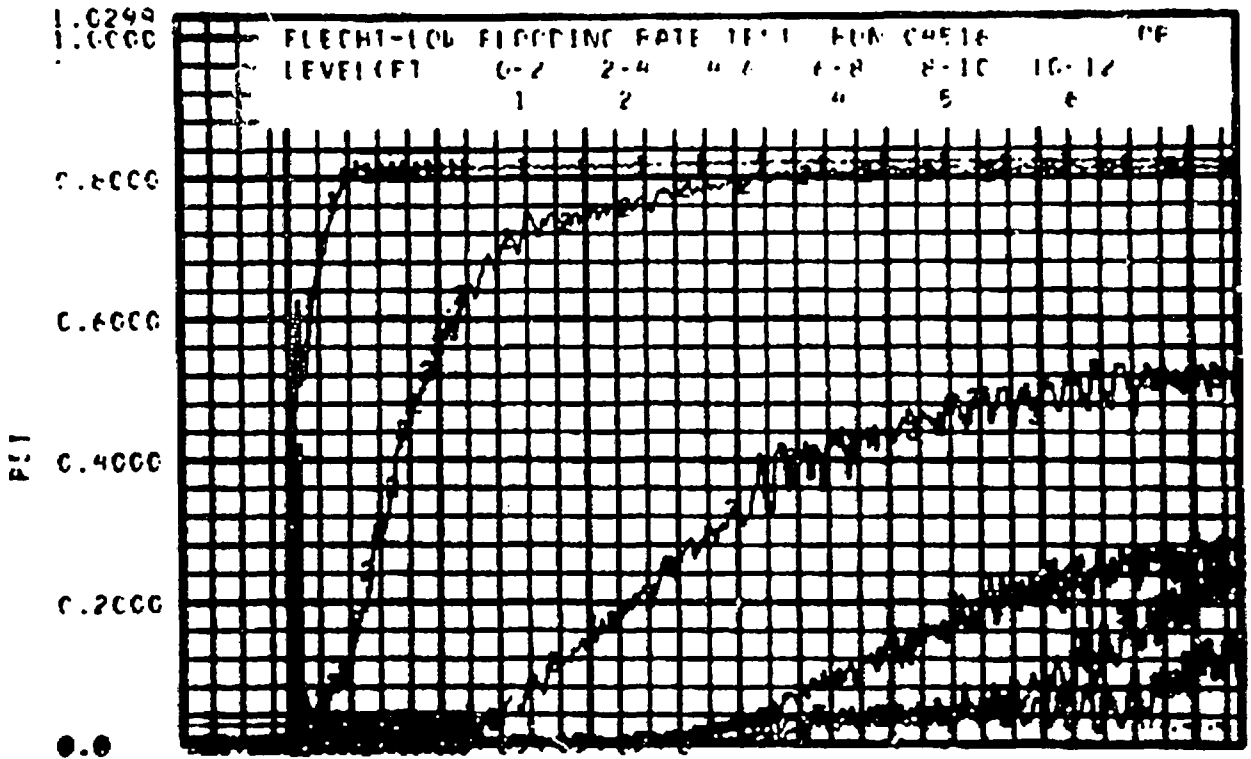




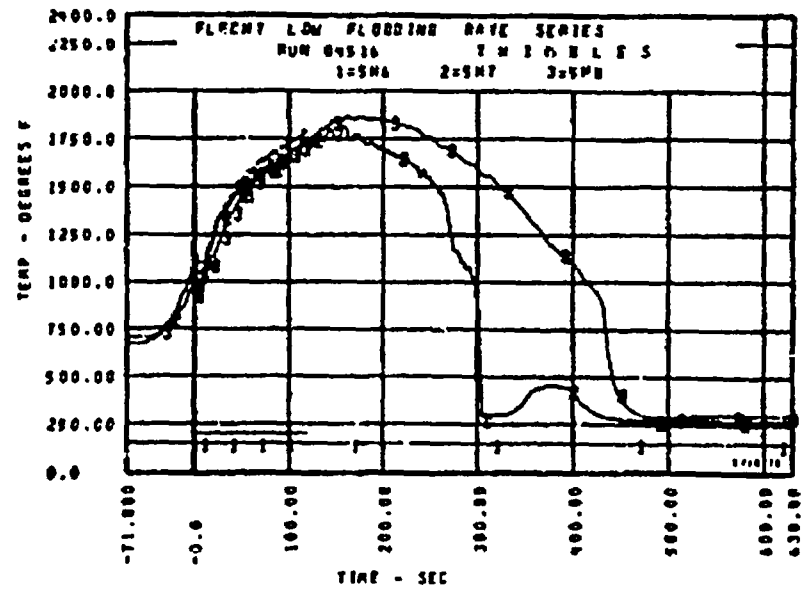
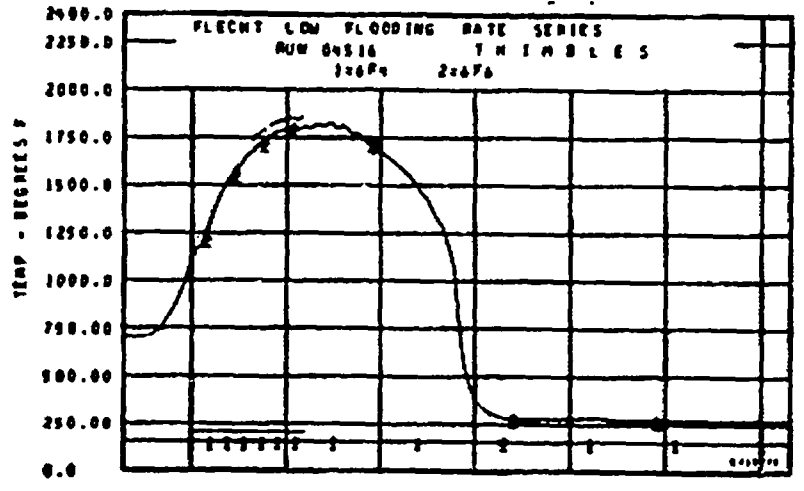
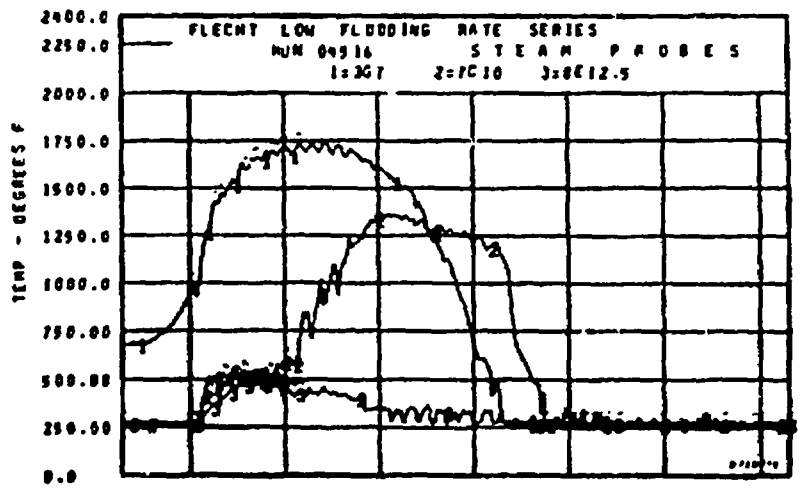


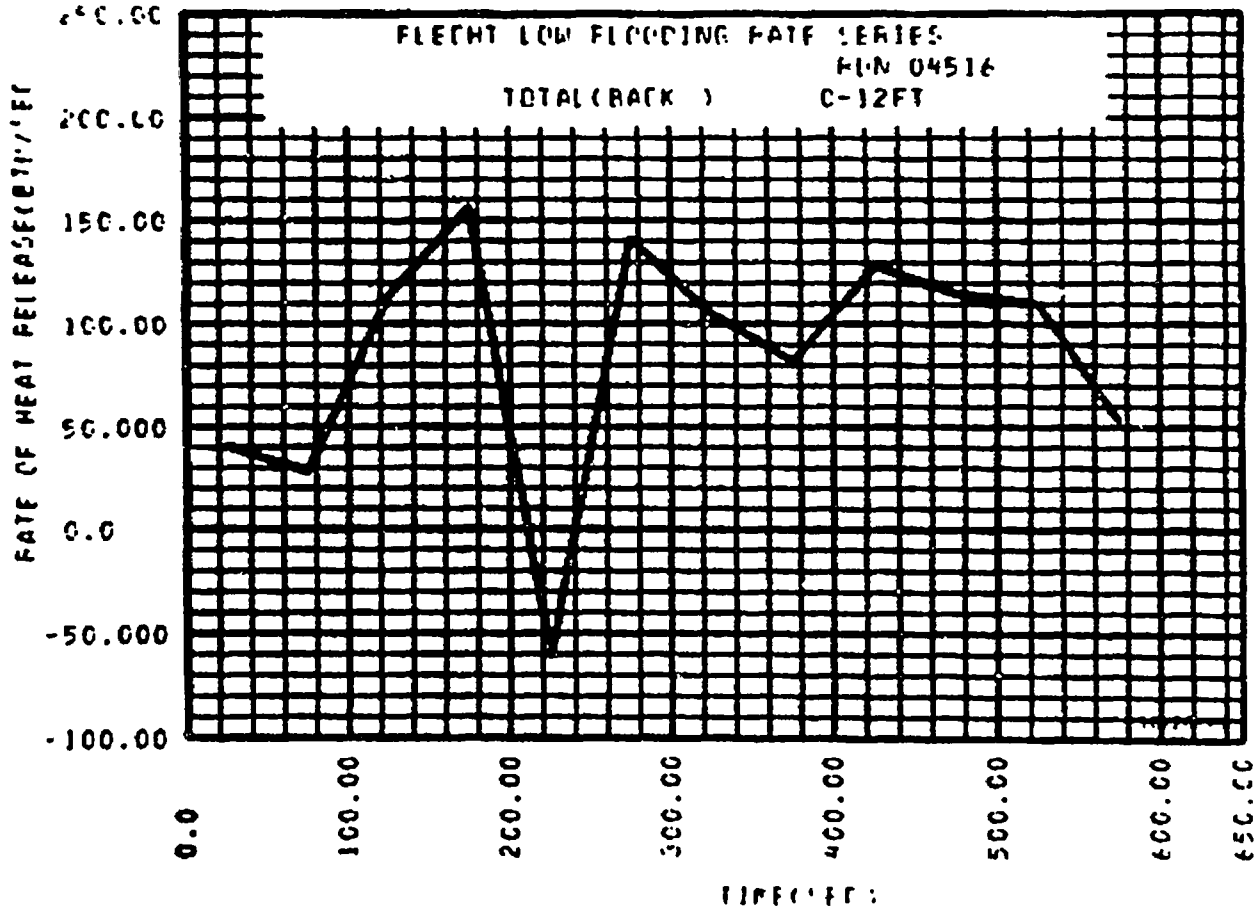
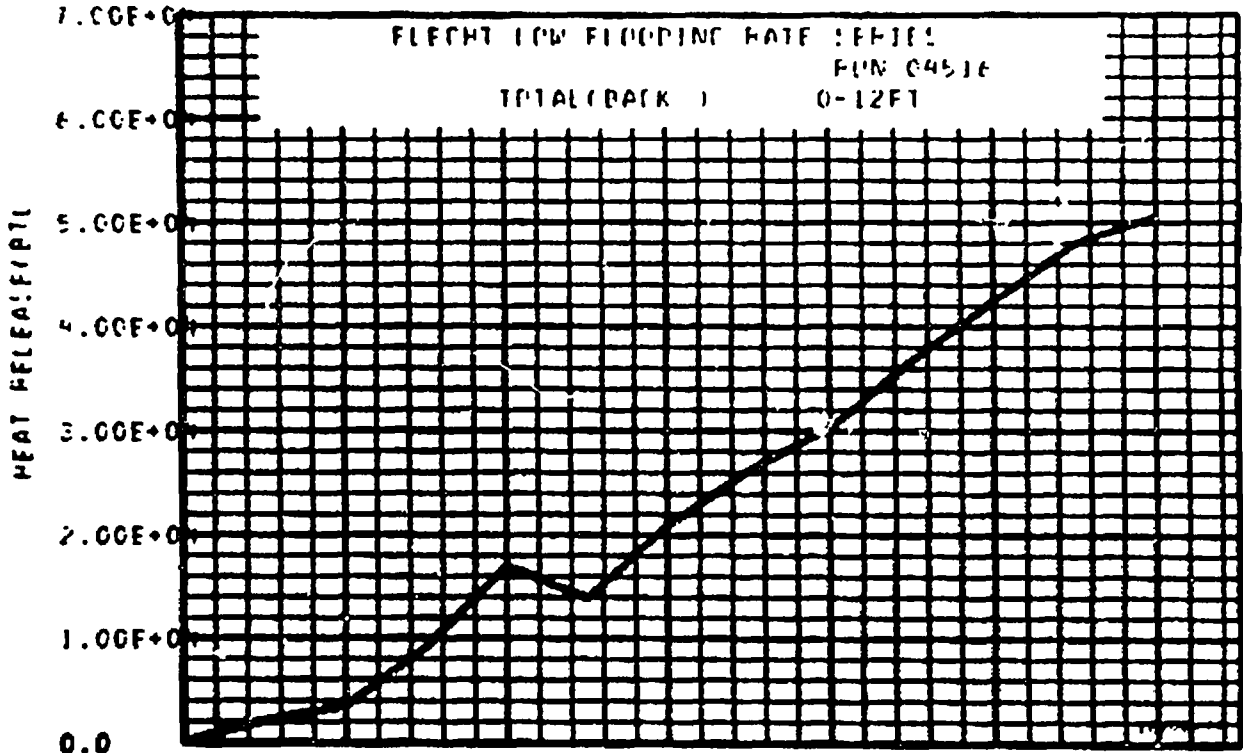


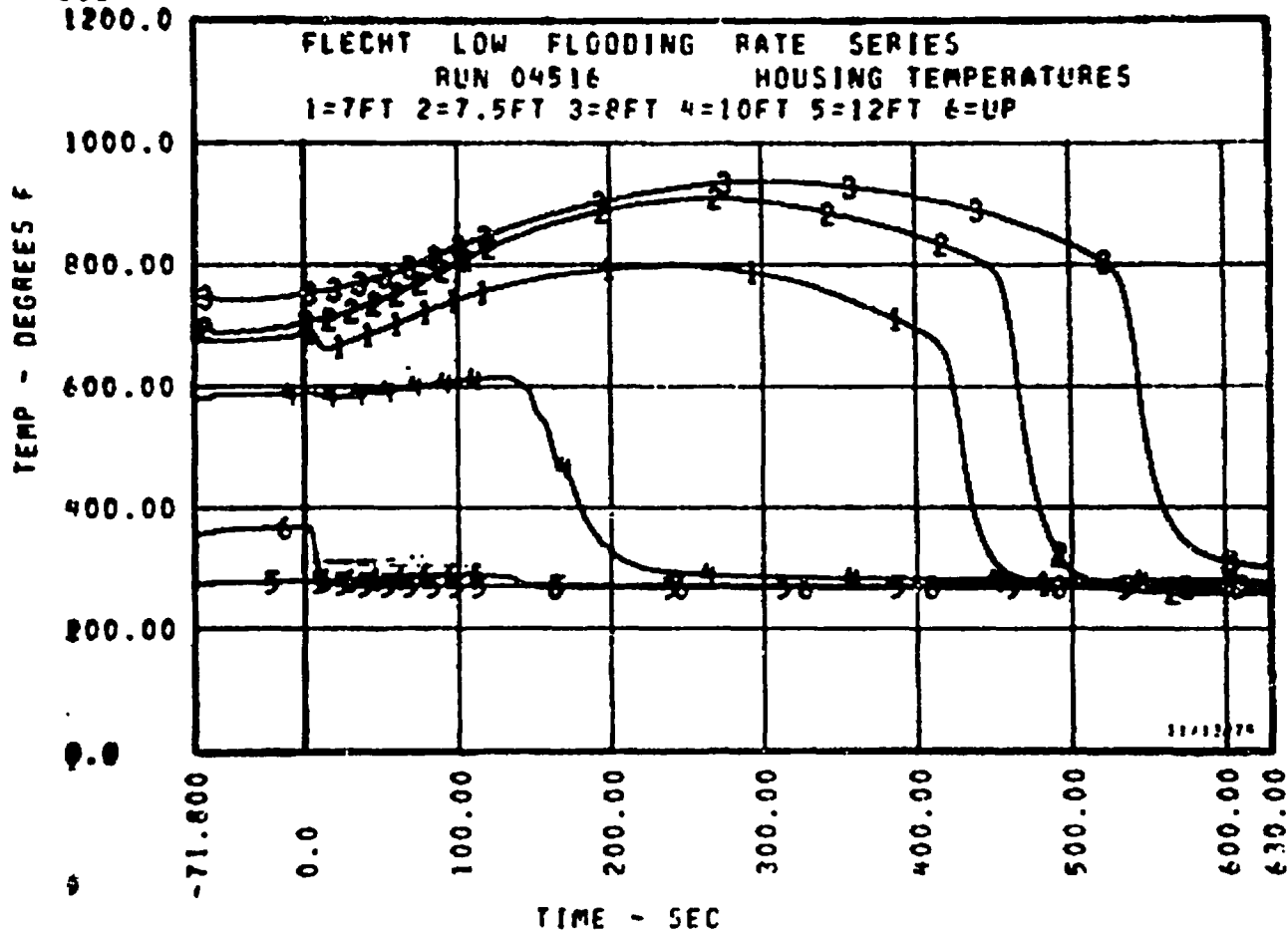
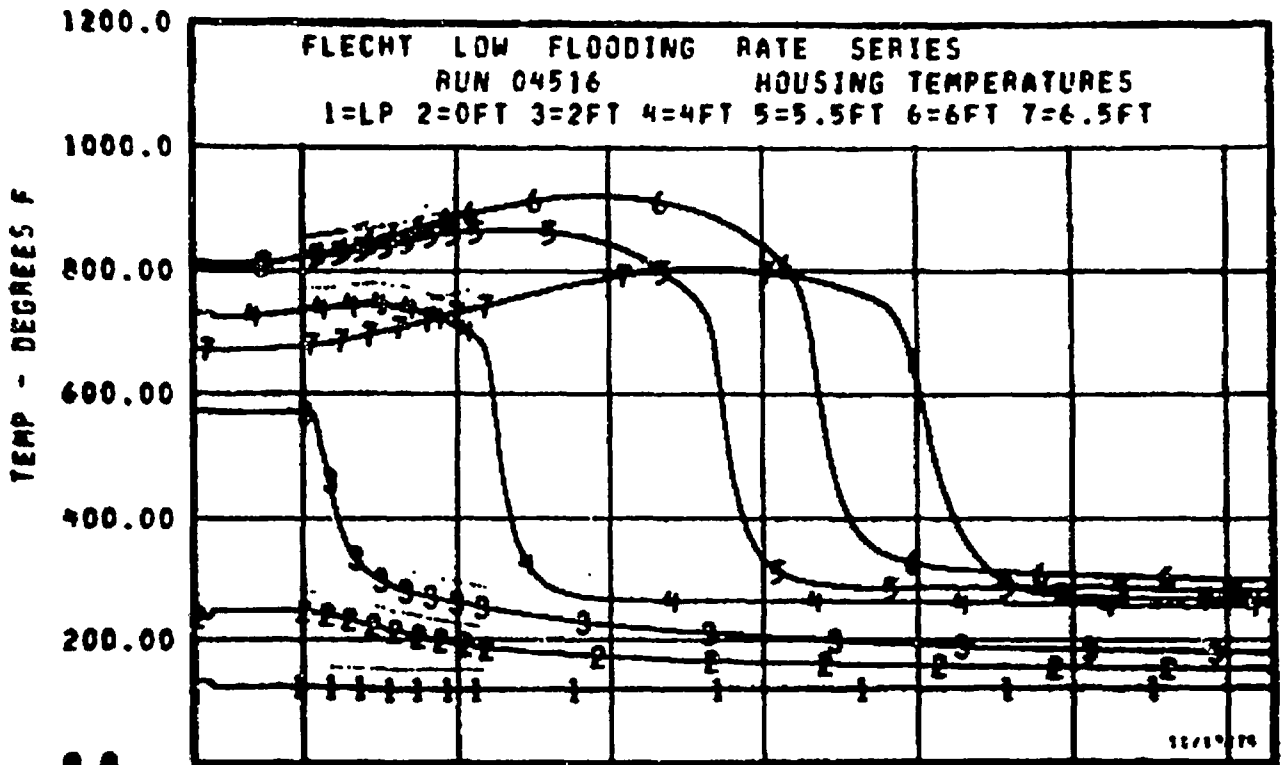


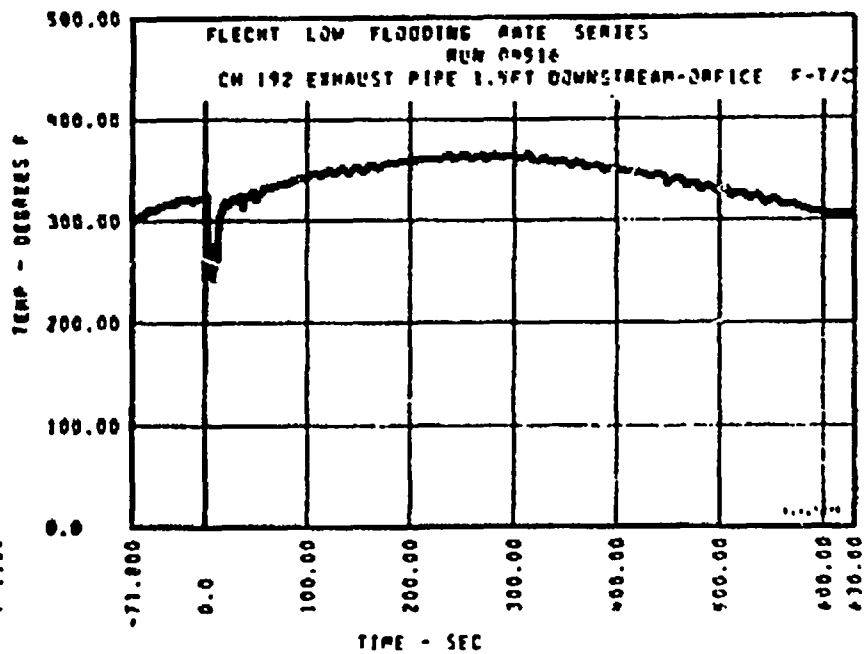
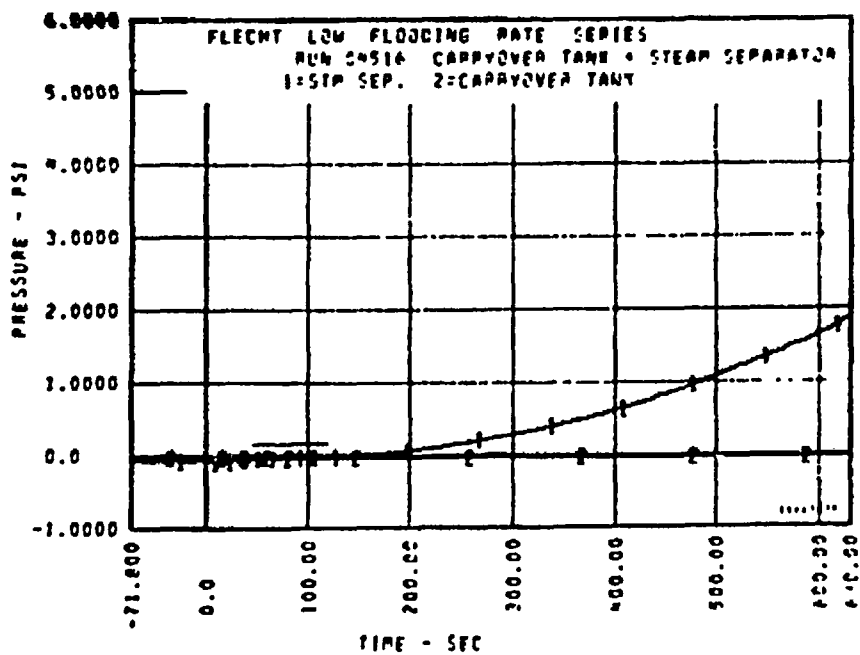
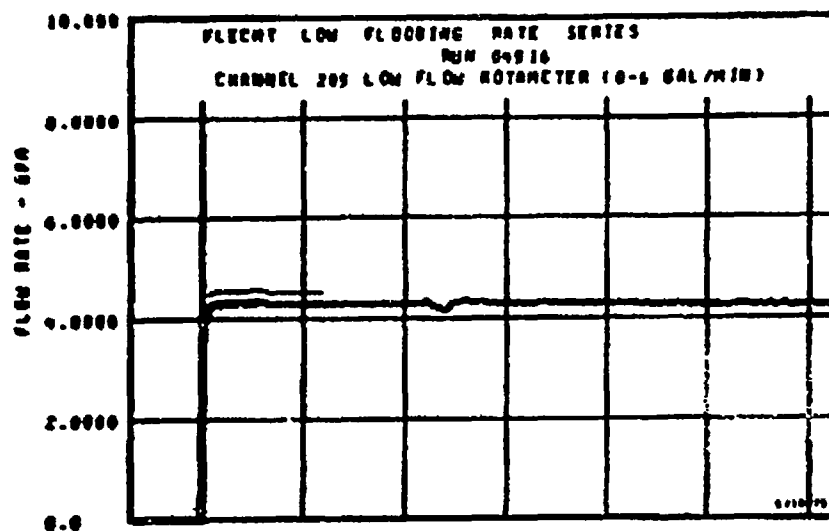
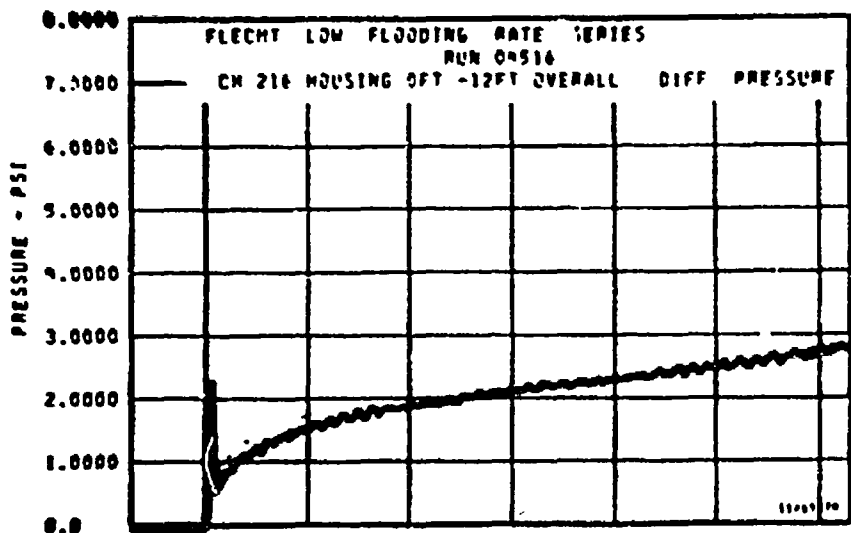


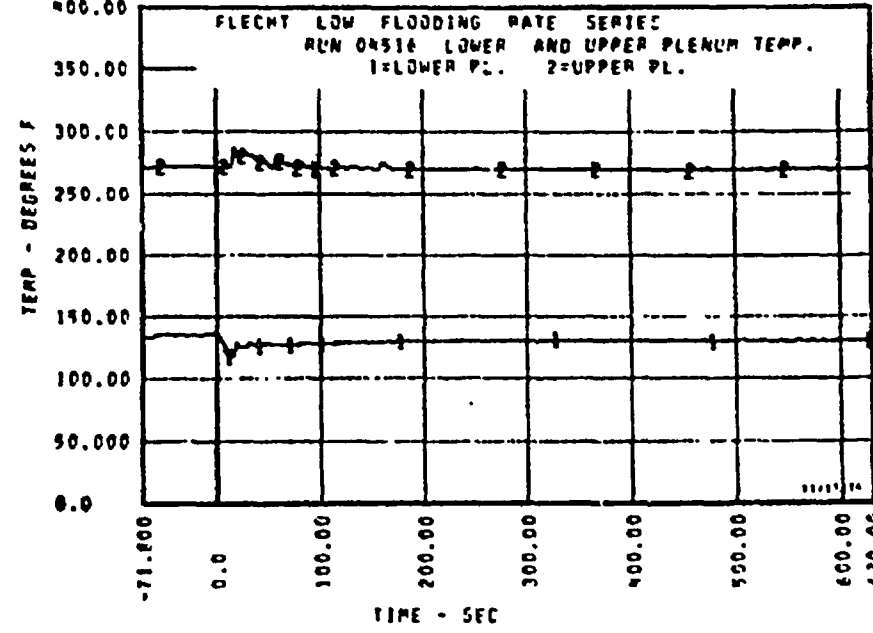
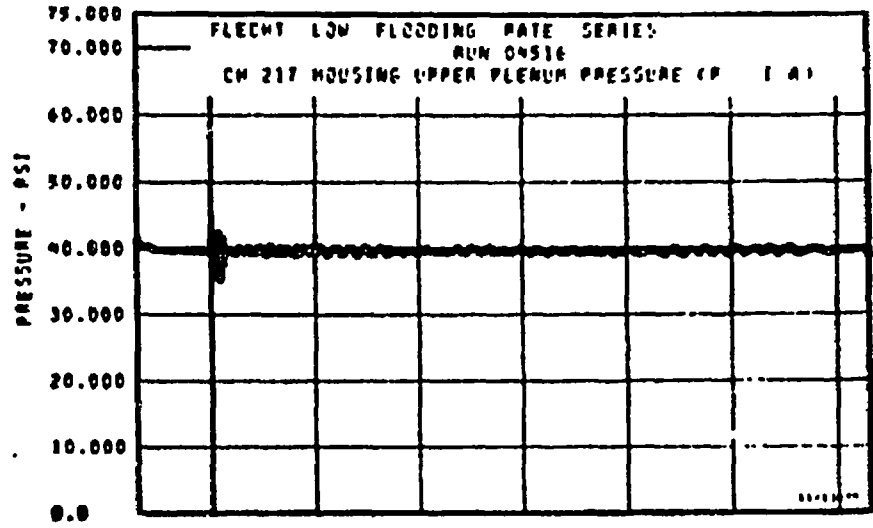
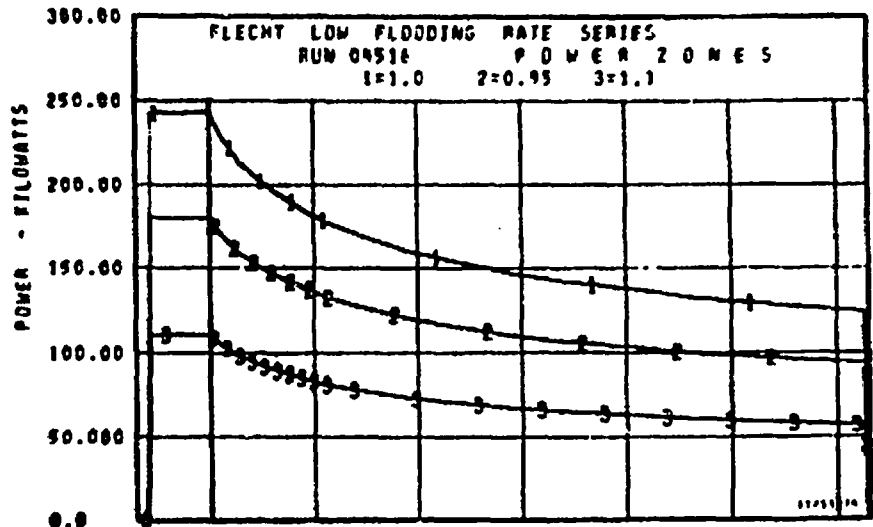
TIME



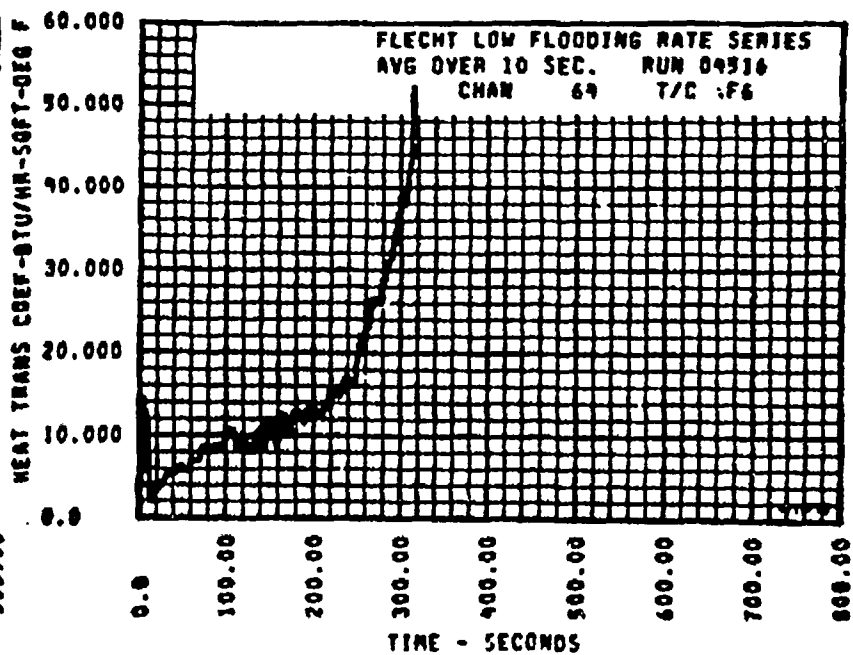
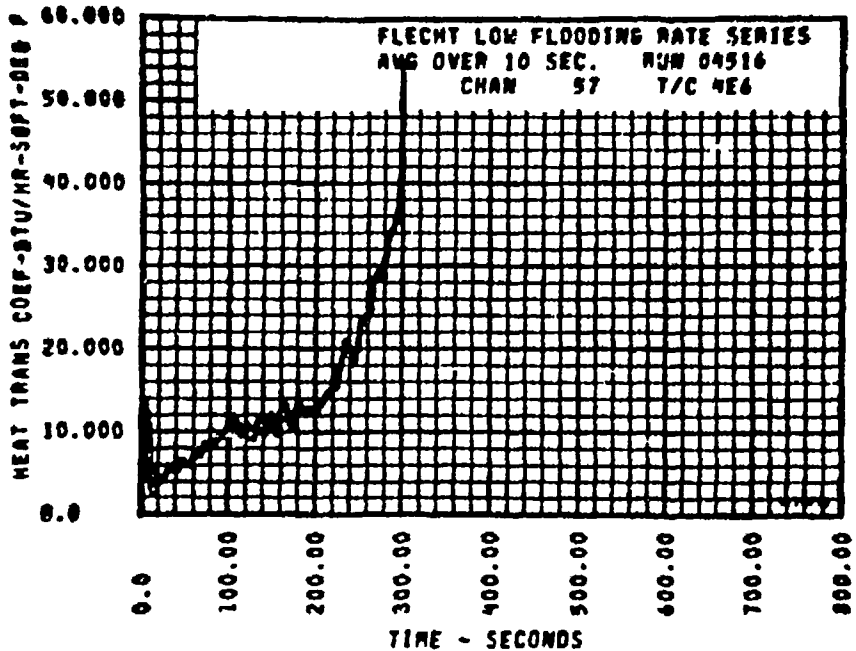
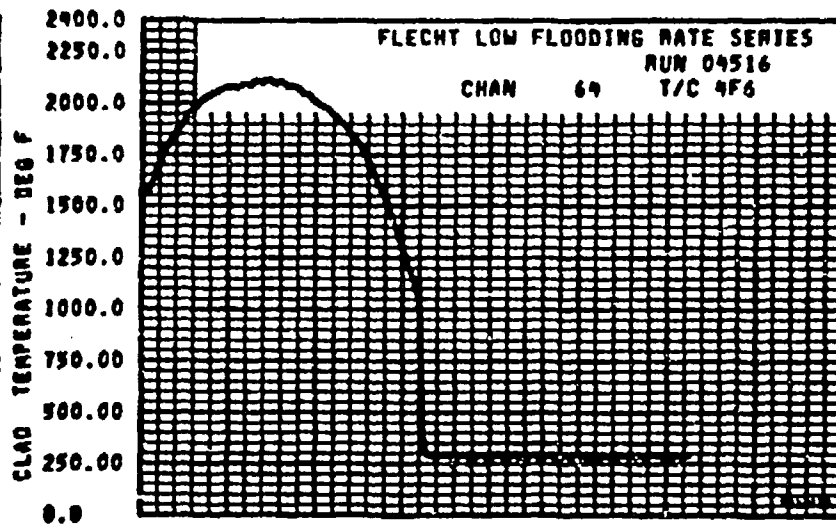
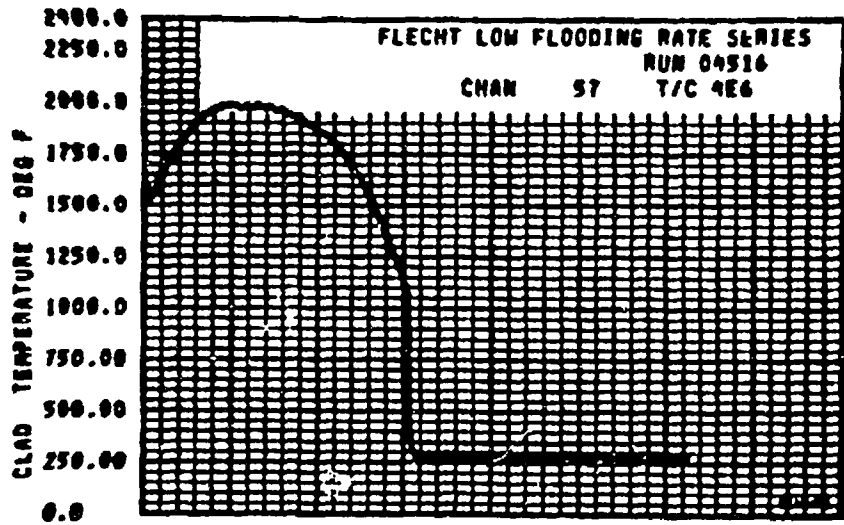








TIME - SEC



FLECHT - LOW FLOODING RATE TEST

SUMMARY SHEET

COSINE AXIAL POWER PROFILE

RUN NO. 04641

DATE: 5/6/75

A. RUN CONDITIONS

Upper Plenum Pressure, psia	<u>20</u>	
Initial Clad Temperature (6 Ft)°F At Flood	<u>1,601</u>	Rod T/C <u>4H6</u>
Rod Peak Power, kw/ft	<u>0.95</u>	
Flooding Rate, in/sec	<u>1.0</u>	
	<u>----</u>	
	<u>----</u>	
Coolant Temperature, °F	<u>89</u>	
Bundle Radial Power Profile	<u>FLECHT</u>	
Disconnected Rods	<u>7F</u>	

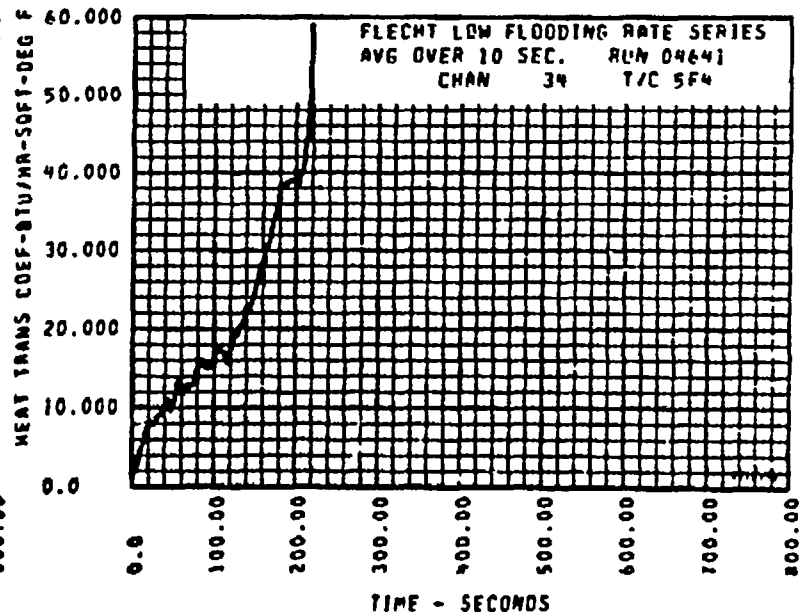
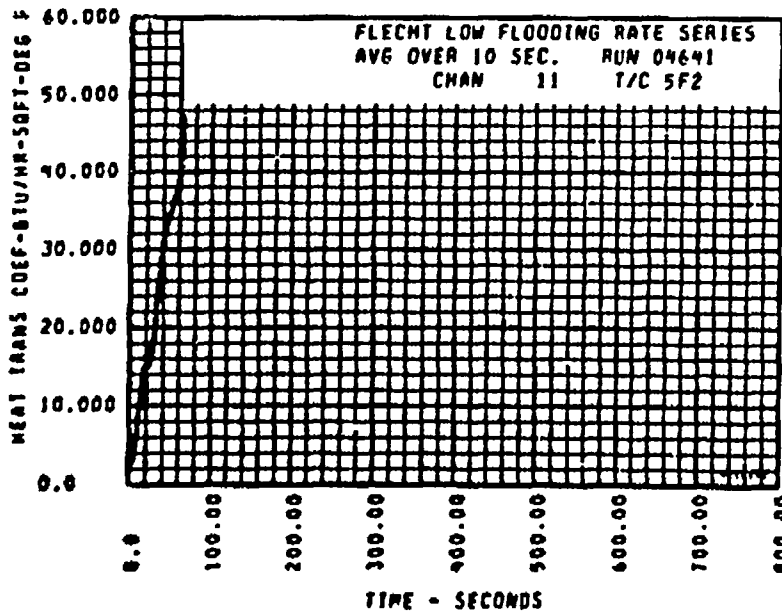
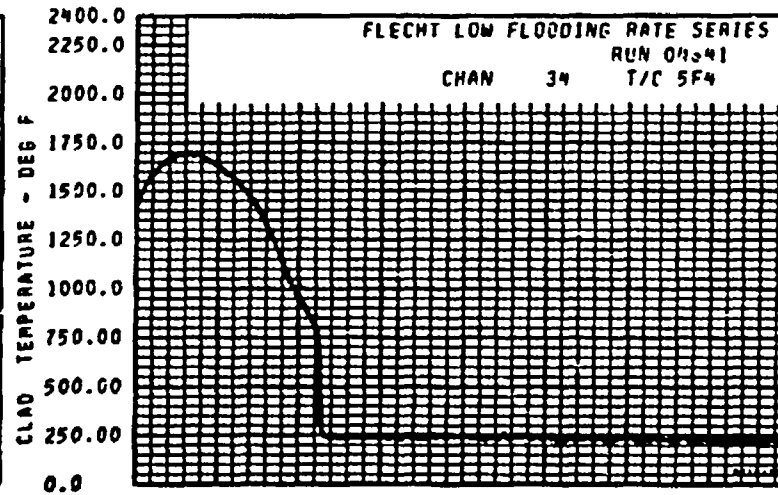
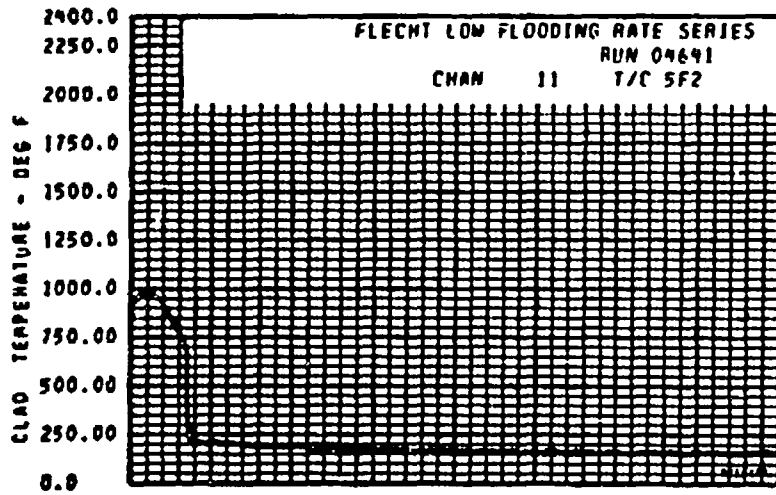
B. INITIAL HOUSING TEMPERATURE

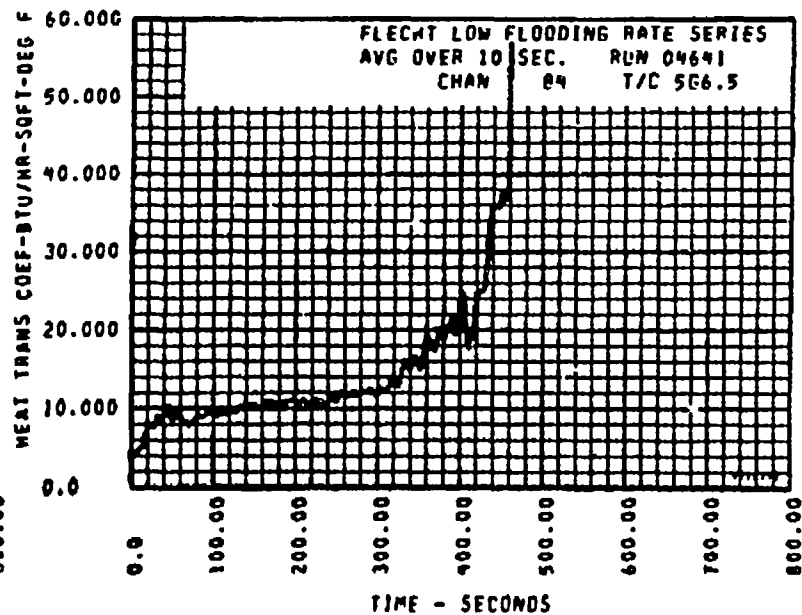
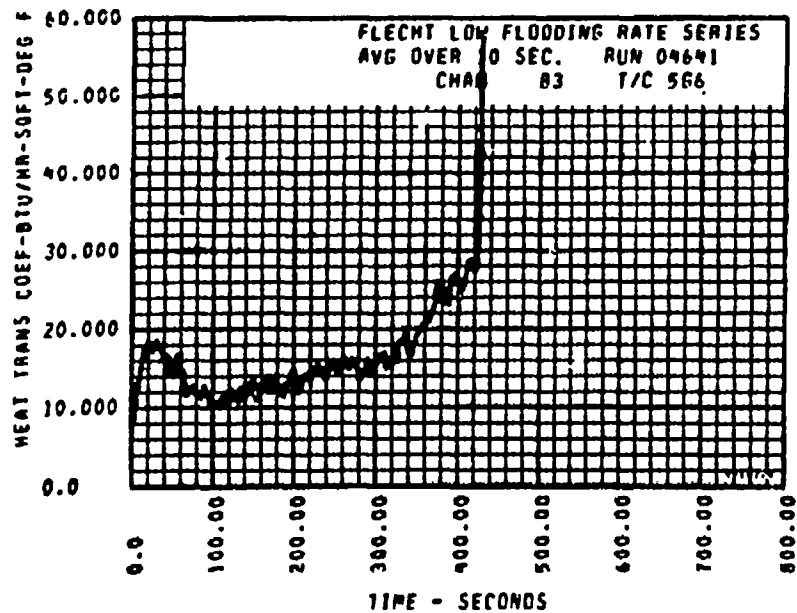
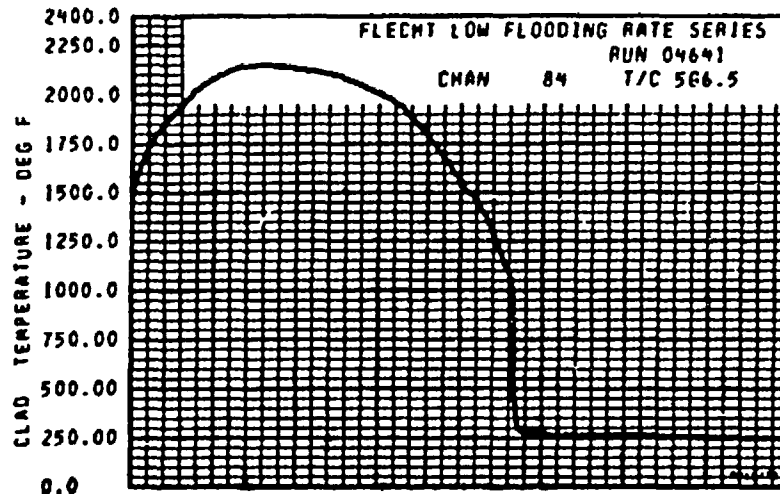
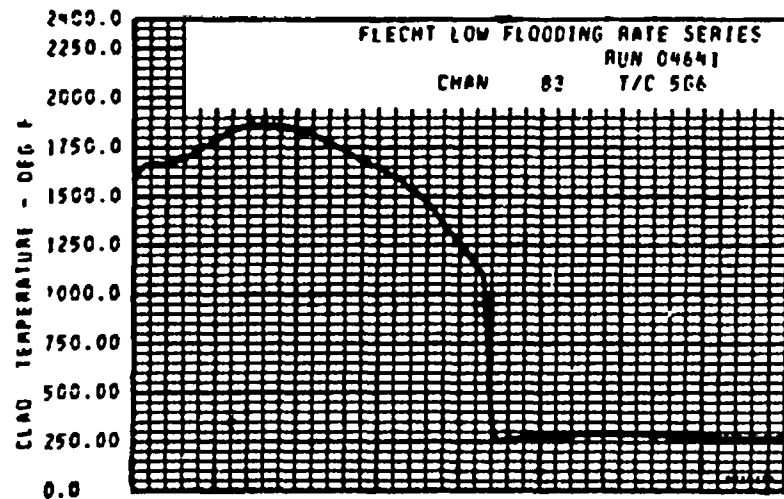
Back Side Elevation, Ft.	Temperature, °F
0	<u>205</u>
2	<u>548</u>
4	<u>736</u>
5.5	<u>736</u>
6	<u>814</u>
6.5	<u>820</u>
7	<u>673</u>
7.5	<u>680</u>
8	<u>695</u>
10	<u>742</u>
12	<u>548</u>
	<u>610</u>
Average	<u>610</u>
Lower Plenum	<u>86</u>
Upper Plenum	<u>238</u>

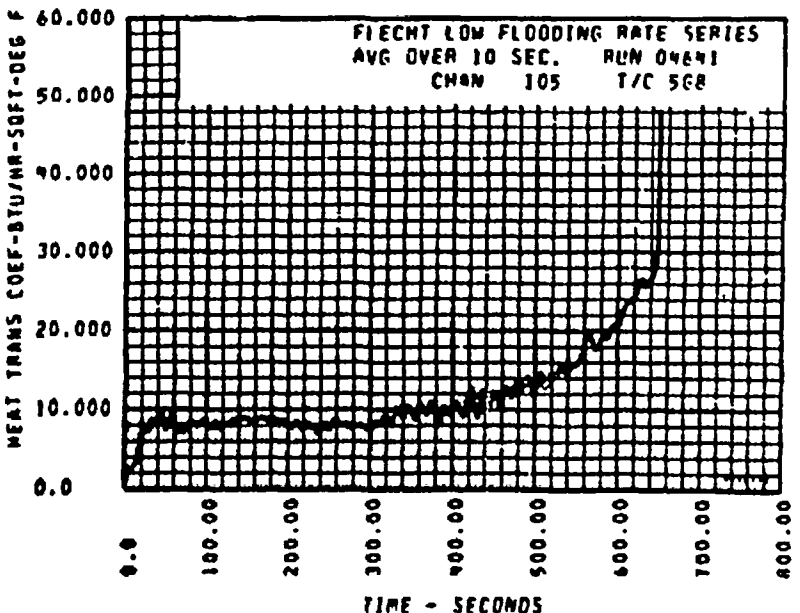
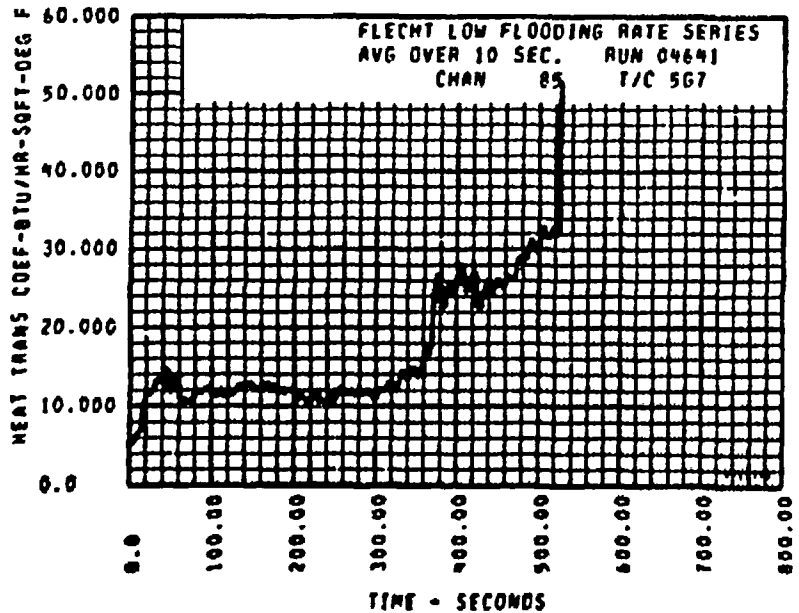
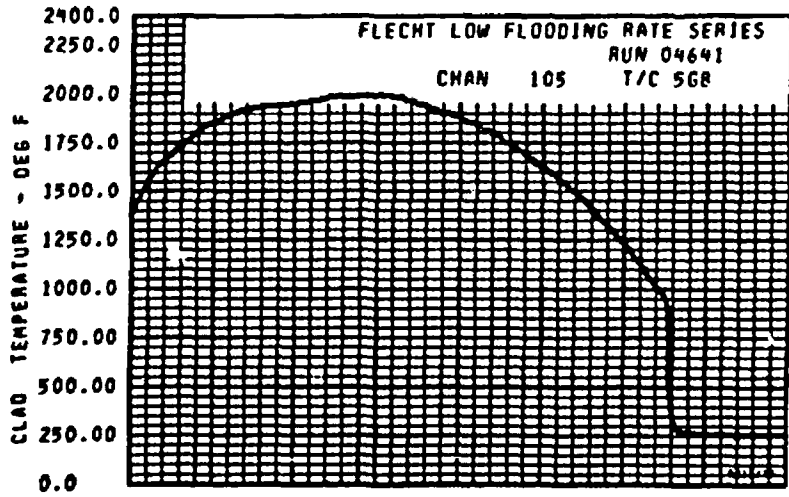
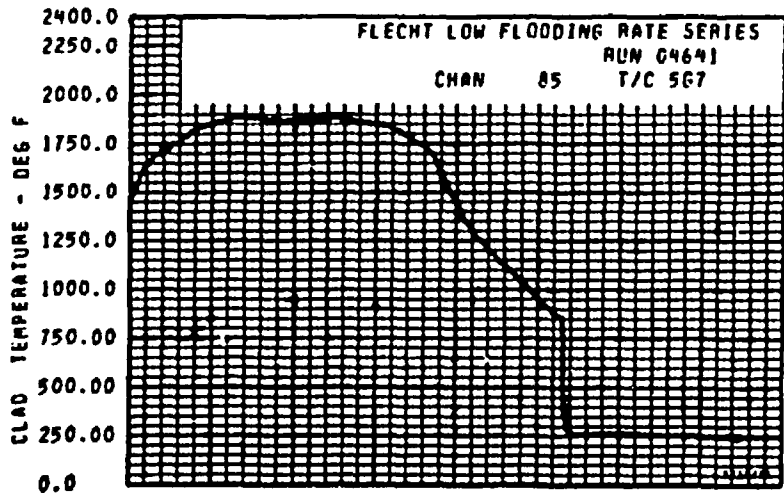
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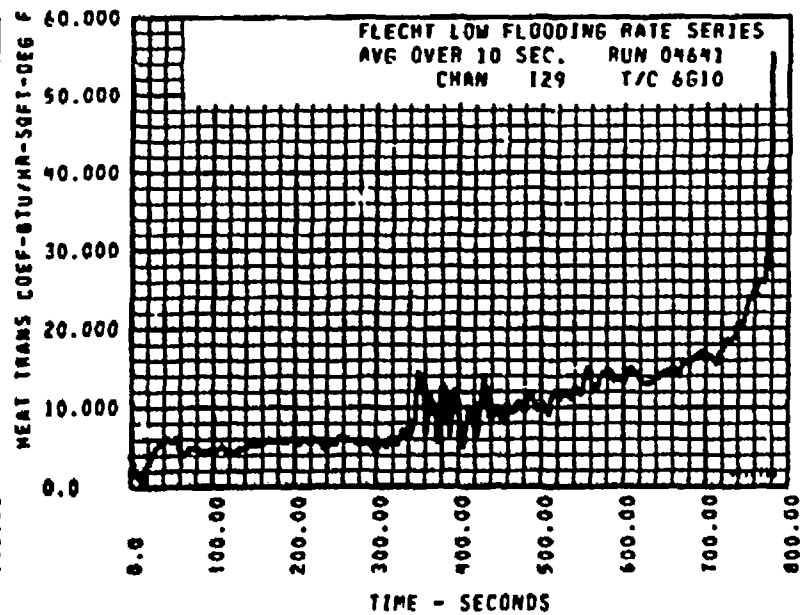
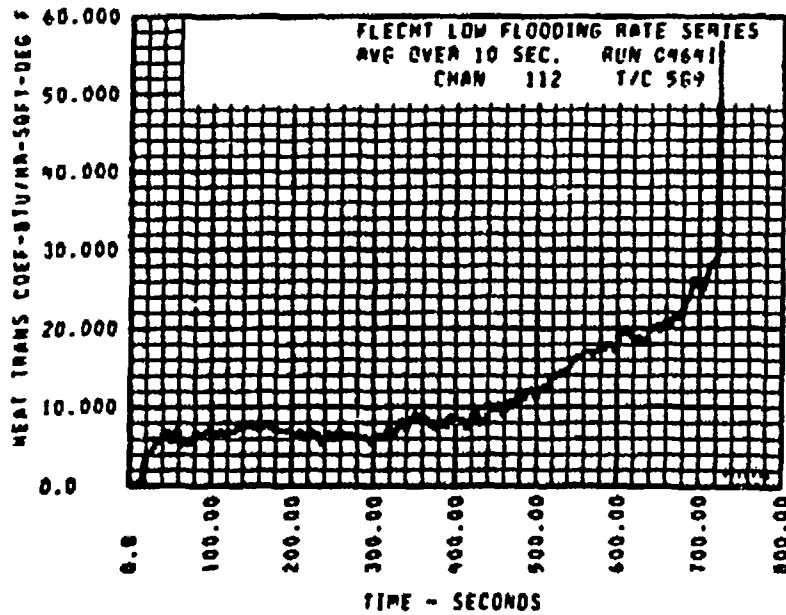
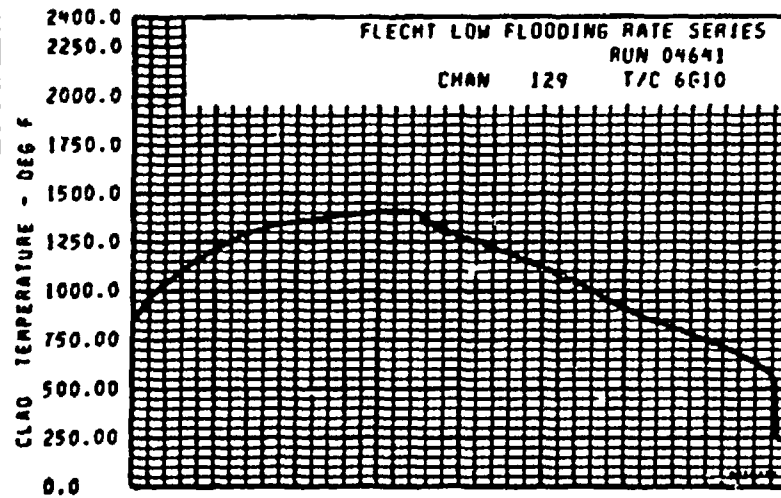
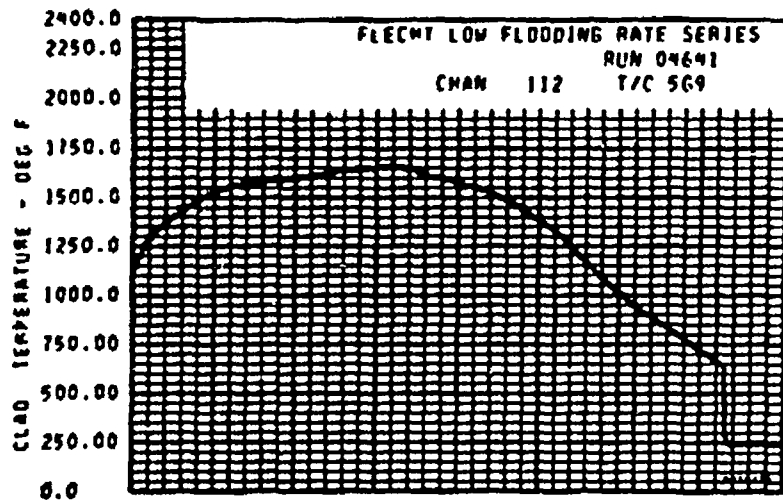
FLESHI-LOI FLOODING RATE AND THERMOCOUPLE DATA

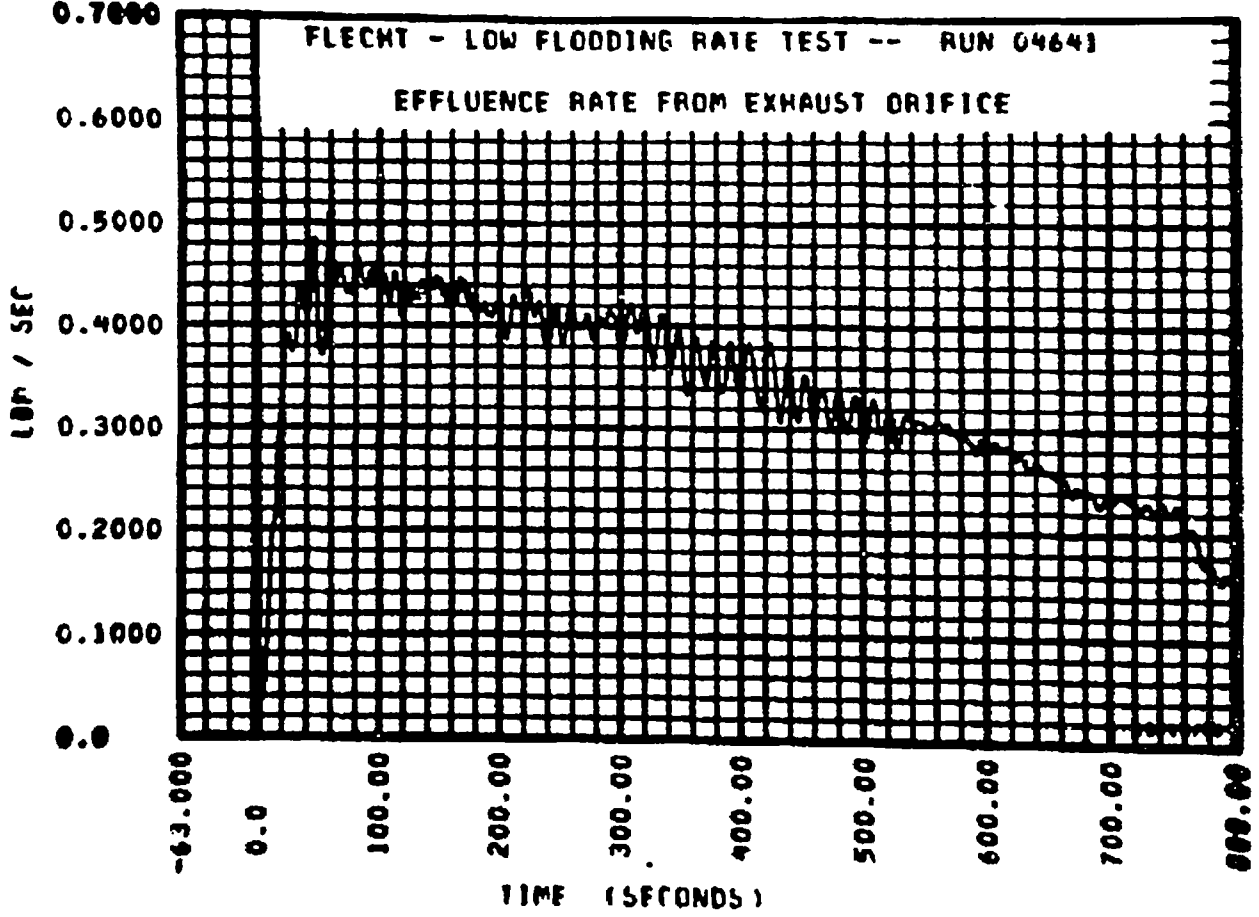
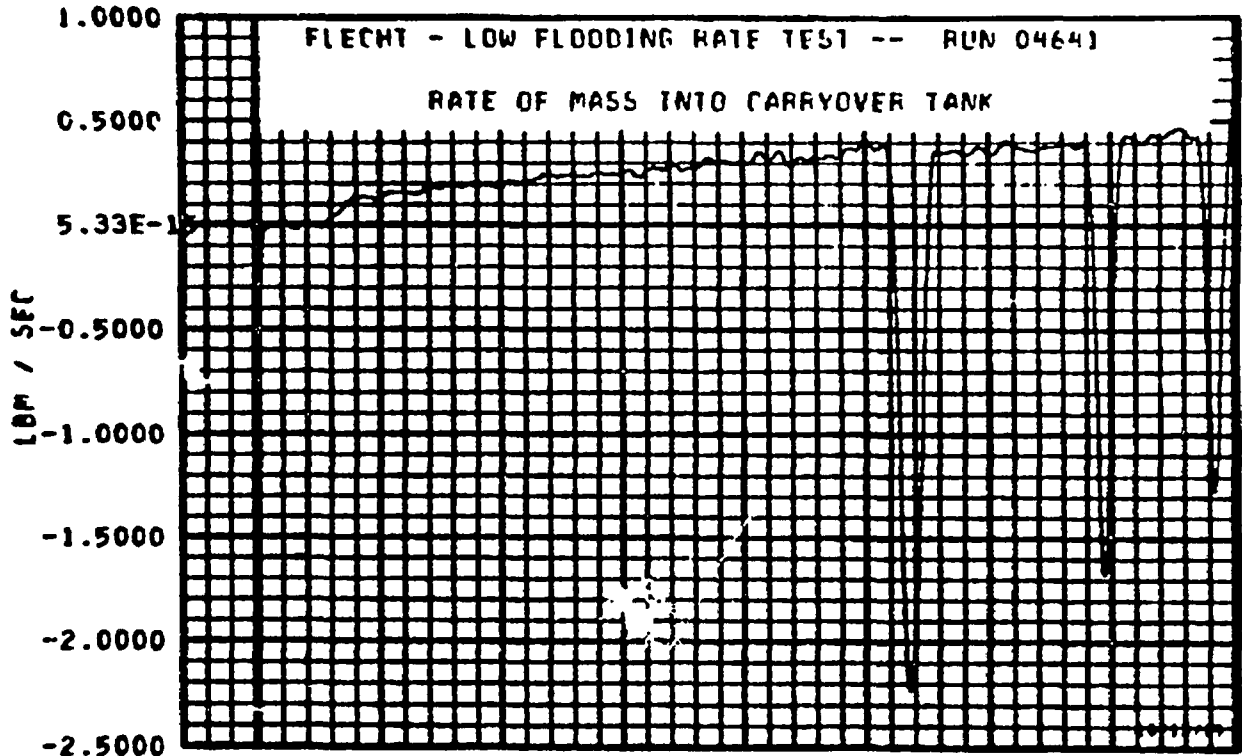
ROD/CLPV	TEMP. RATE AT FLOOD (°C/F)	TIME OF FLOOD (SEC.)	INITIAL TEMPERATURE AT FLOOD (°C/F)	MINIMUM MAXIMUM TEMPERATURE (°C/F)	QUENCH TEMPERATURE (°C/F)	TURNAROUND TIME (SEC.)	QUENCH TEMPERATURE (°C/F)	QUENCH TIME (SEC.)
4M0.5	210.	-13.0	641.	620.	27.	6.5	572.	16.5
4M1	171.	-13.0	677.	705.	37.	8.0	627.	25.6
4M1.5	211.	-13.0	721.	789.	77.	8.5	672.	44.1
4M2	130.	-13.0	404.	1370.	72.	17.0	723.	71.6
4M4	224.	-13.0	1620.	1717.	281.	75.0	764.	227.7
4M6	114.	-13.0	1631.	2142.	349.	133.0	809.	452.2
806	276.	-13.0	1927.	3070.	373.	117.0	885.	478.6
806.5	200.	-13.0	1641.	2044.	625.	169.0	814.	588.4
807	114.	-13.0	1407.	1481.	424.	209.0	751.	472.2
808	417.	-13.0	1340.	1327.	542.	237.0	696.	668.7
809	211.	-13.0	1024.	1473.	443.	97.0	575.	738.0
8010	101.	-13.0	779.	1710.	573.	242.0	572.	733.1
8011	101.	-13.0	843.	941.	197.	315.0	546.	641.6
8012	110.	-13.0	416.	717.	275.	129.0	240.	443.0
SF0	170.	-13.0	334.	307.	1.	0.2	334.	0.5
SF0.5	203.	-13.0	678.	504.	21.	5.0	538.	14.2
SF1	110.	-13.0	605.	470.	36.	9.0	650.	24.8
SF1.5	321.	-13.0	913.	970.	64.	17.0	650.	53.9
SF2	300.	-13.0	1144.	1139.	151.	18.4	712.	133.9
SF4	210.	-13.0	1414.	1702.	281.	65.0	706.	224.4
SF6	120.	-13.0	1513.	1373.	413.	173.0	1010.	426.8
506	220.	-13.0	1542.	1403.	301.	145.0	1763.	87.4
506.5	178.	-13.0	1415.	2151.	640.	160.0	1080.	464.6
507	214.	-13.0	1400.	1494.	433.	241.0	840.	530.9
509	211.	-13.0	1374.	1554.	622.	132.0	900.	653.0
509	144.	-13.0	1173.	1660.	937.	114.0	632.	728.0
5011	147.	-13.0	554.	1002.	441.	315.0	649.	766.1
5012	200.	-13.0	520.	900.	170.	251.0	452.	744.0
106	210.	-13.0	1341.	1440.	131.	38.0	789.	192.3
106	210.	-13.0	1504.	1401.	261.	136.0	899.	426.7
1010	270.	-13.0	314.	114.	263.	208.0	515.	760.5
3M2	134.	-13.0	973.	1011.	67.	17.0	736.	63.0
3M6	200.	-13.0	1571.	2102.	509.	127.0	981.	443.4
3M8	234.	-13.0	1170.	1134.	554.	209.0	795.	654.2
3M10	149.	-13.0	493.	1413.	410.	219.0	411.	610.4
6E6	211.	-13.0	1476.	2104.	624.	171.0	974.	459.6
6E6.5	101.	-13.0	1406.	2174.	571.	168.0	924.	519.9
6E7	110.	-13.0	1394.	1344.	391.	140.0	443.	572.6
6E8	170.	-13.0	1120.	1342.	657.	251.0	410.	681.1
6E9	144.	-13.0	472.	1610.	641.	129.0	724.	743.1
6E10	211.	-13.0	702.	1640.	714.	310.0	654.	756.9
6E11	210.	-13.0	573.	1080.	515.	123.0	651.	621.7

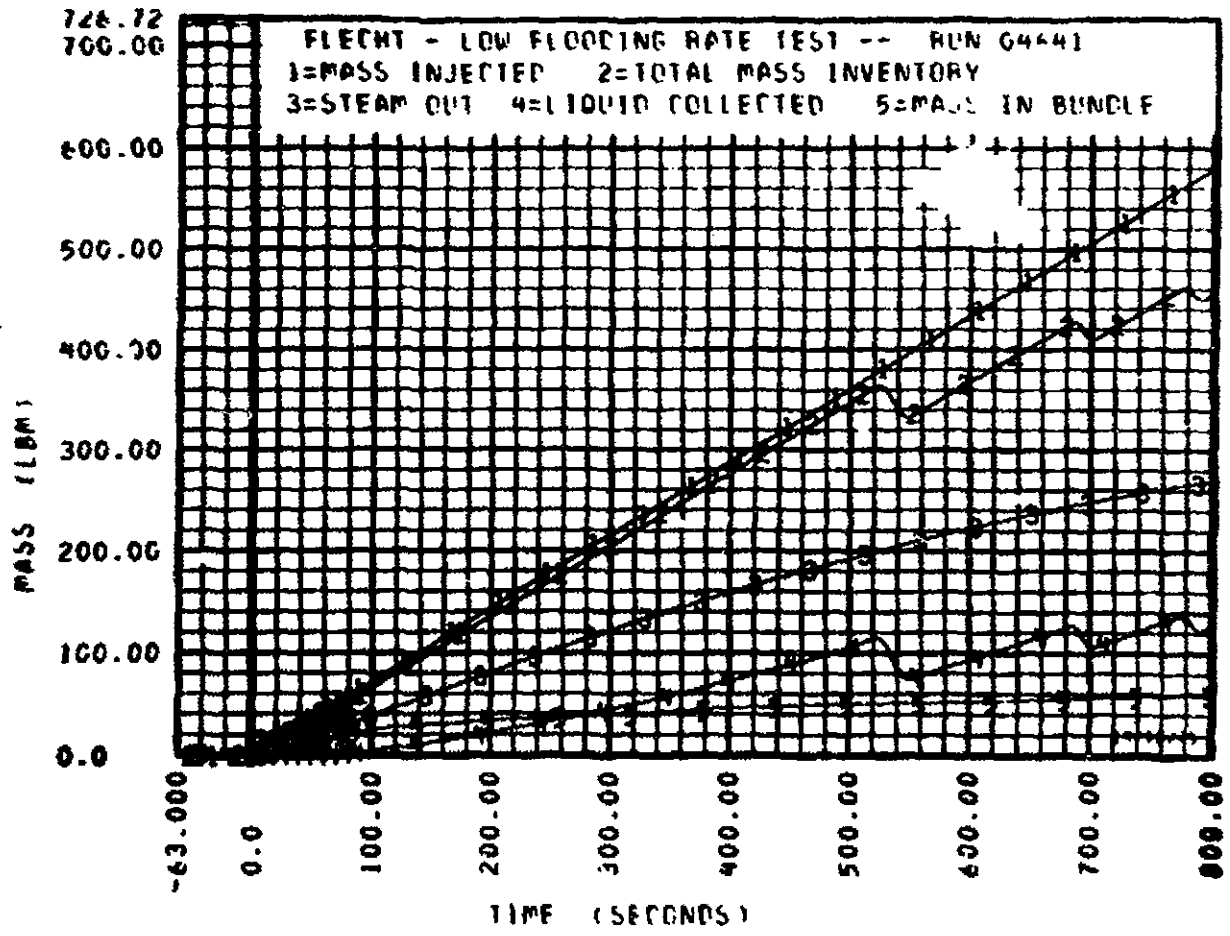


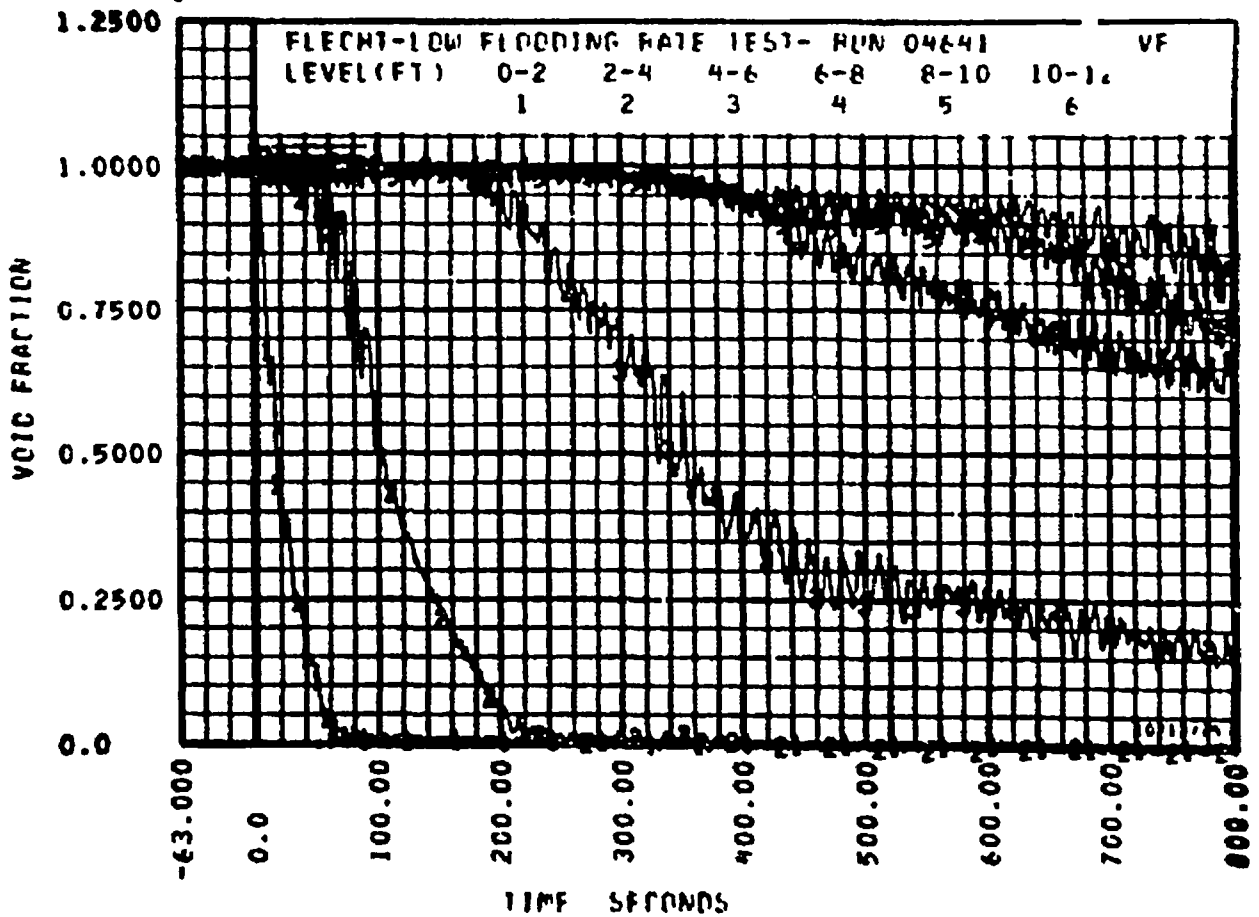
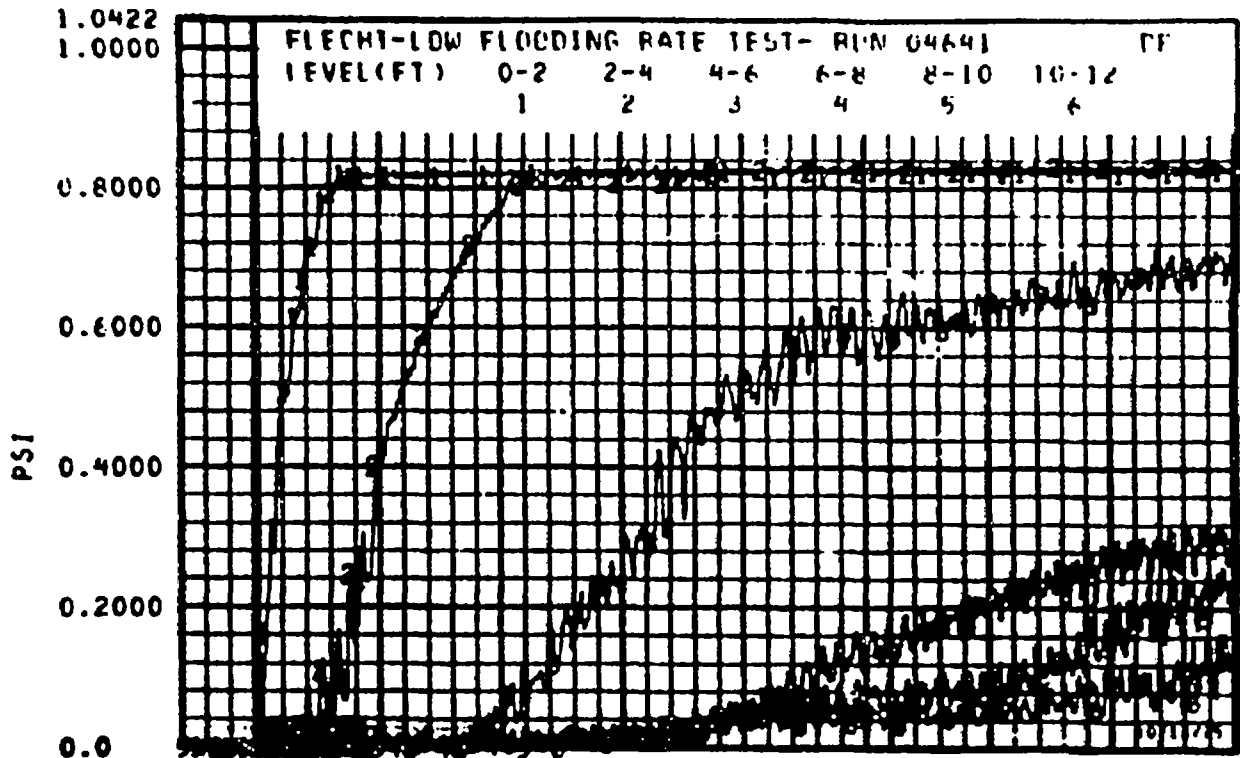


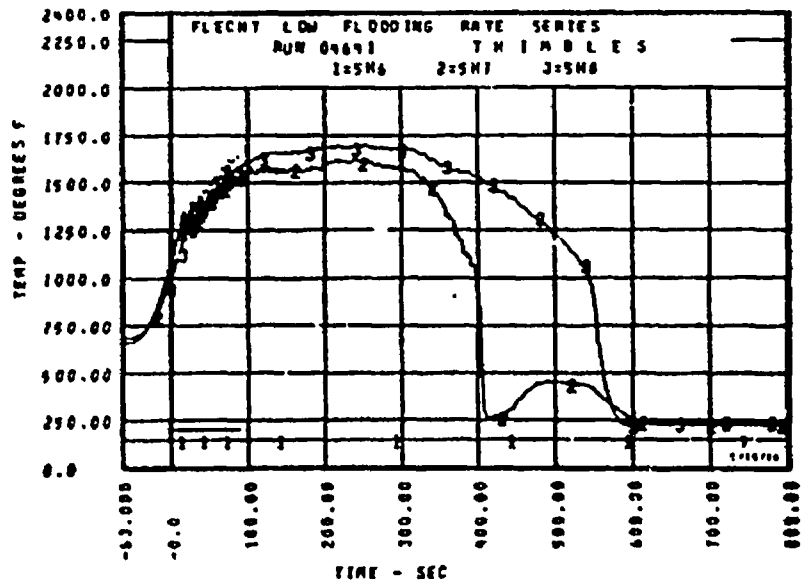
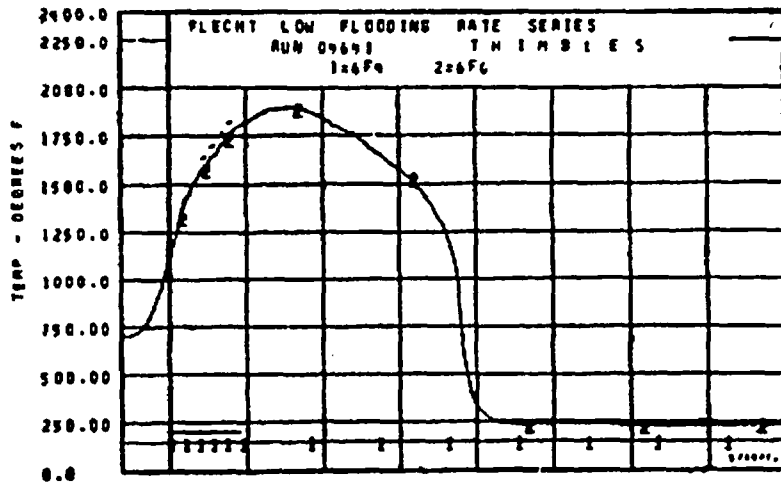
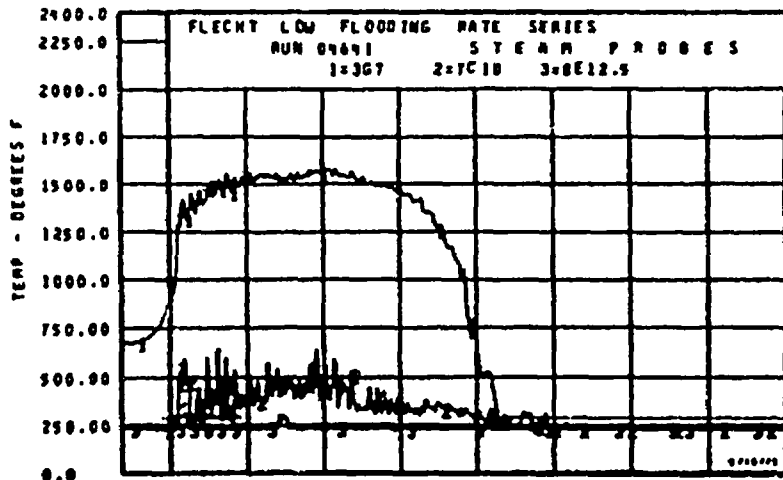


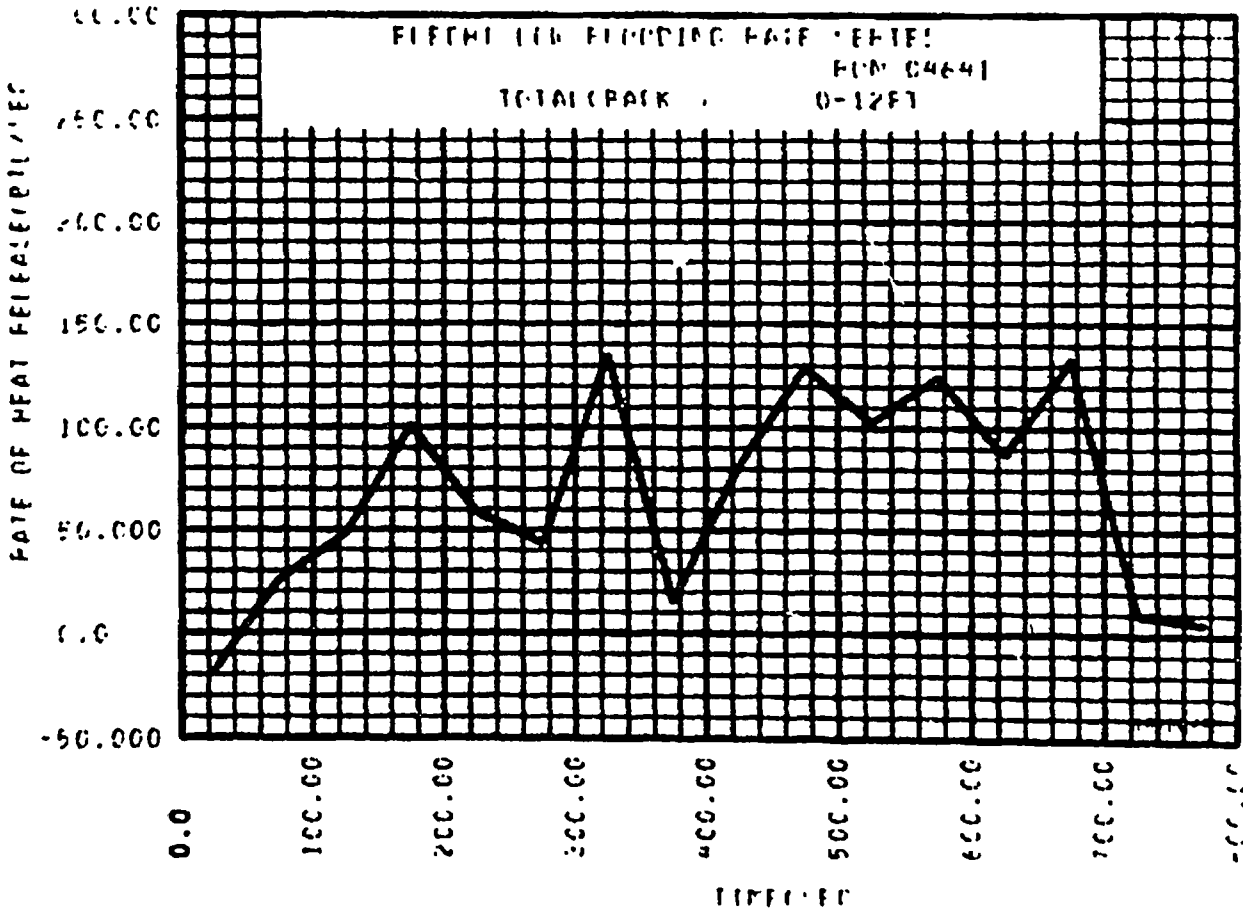
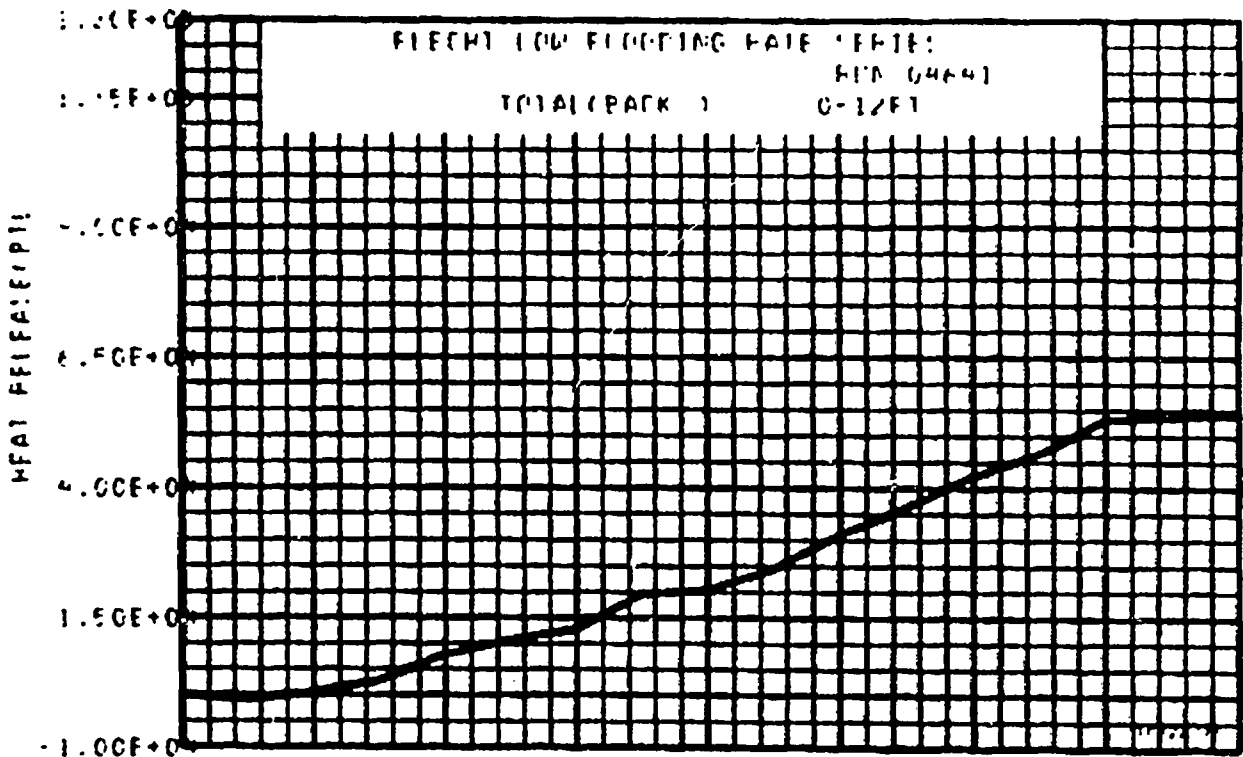












FLECHT - LOW FLOODING RATE TEST

SUMMARY SHEET

COSINE AXIAL POWER PROFILE

RUN NO. 04748

DATE: 5/7/75

A. RUN CONDITIONS

Upper Plenum Pressure, psia	<u>40</u>	
Initial Clad Temperature (6 Ft)°F At Flood	<u>1,600</u>	Rod T/C <u>4H6</u>
Rod Peak Power, kw/ft	<u>0.95</u>	
Flooding Rate, in/sec	<u>1.51</u>	
	<u>----</u>	
	<u>----</u>	
Coolant Temperature, °F	<u>131</u>	
Bundle Radial Power Profile	<u>FLECHT</u>	
Disconnected Rods	<u>7F</u>	

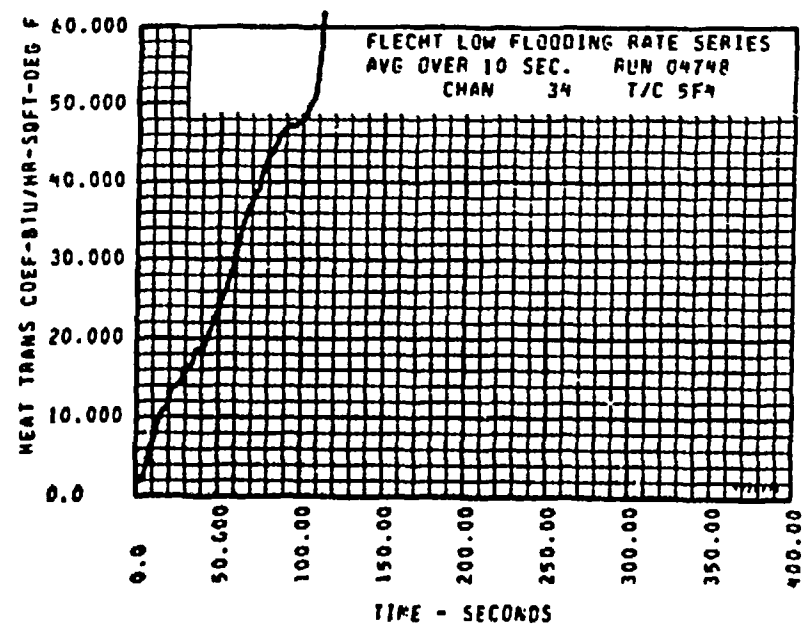
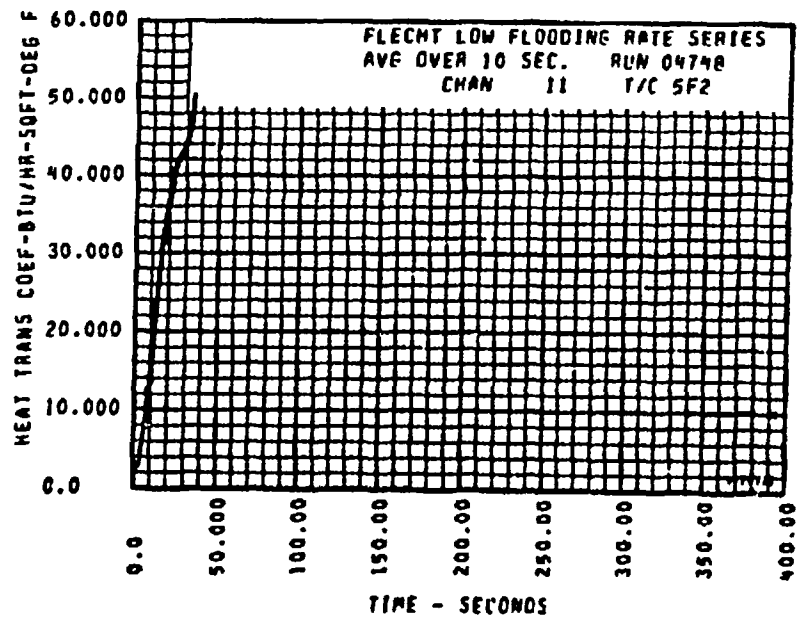
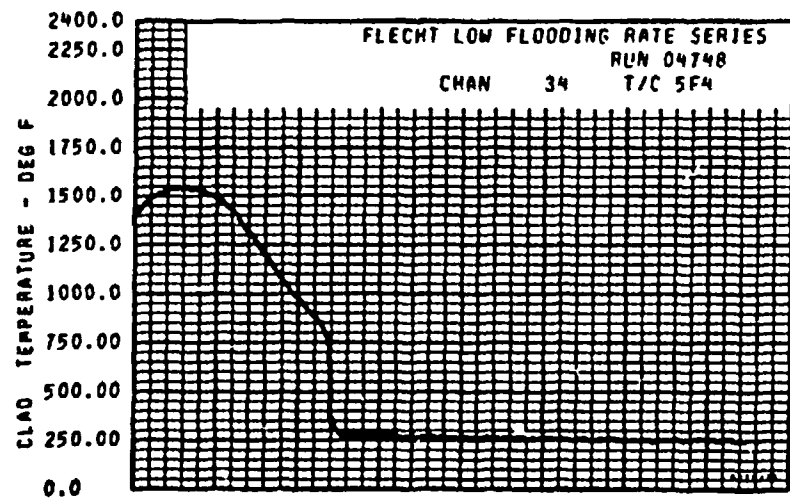
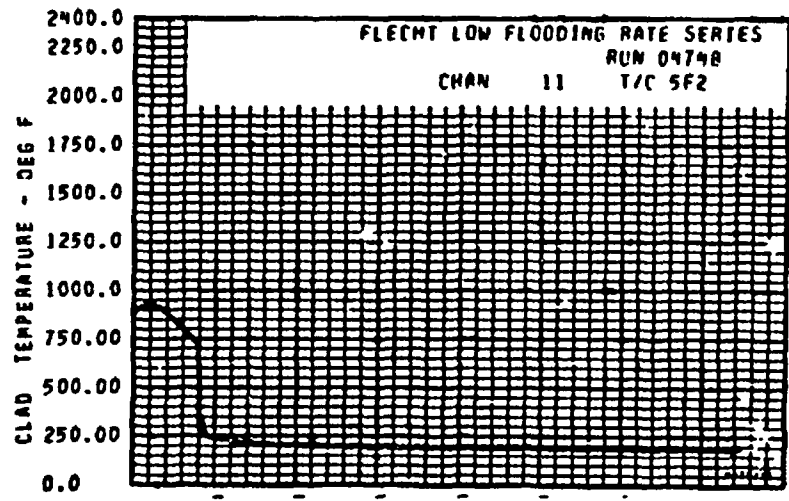
B. INITIAL HOUSING TEMPERATURE

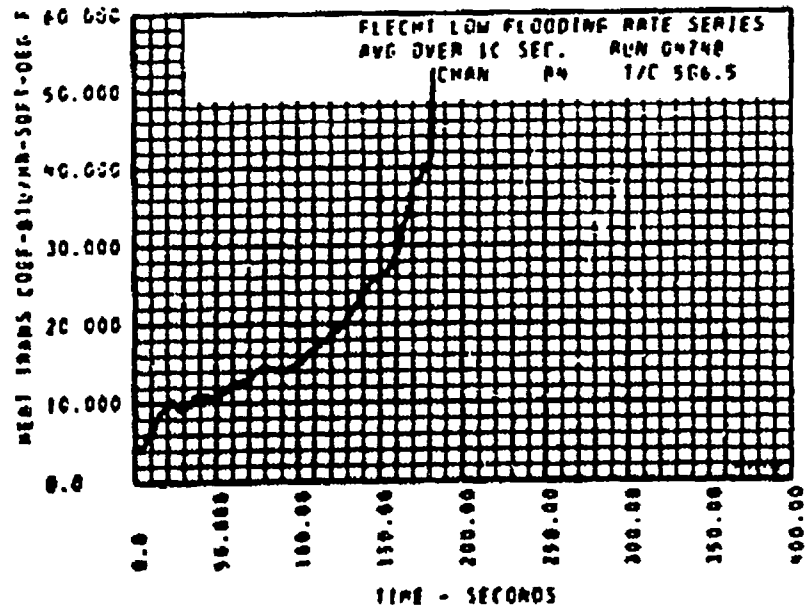
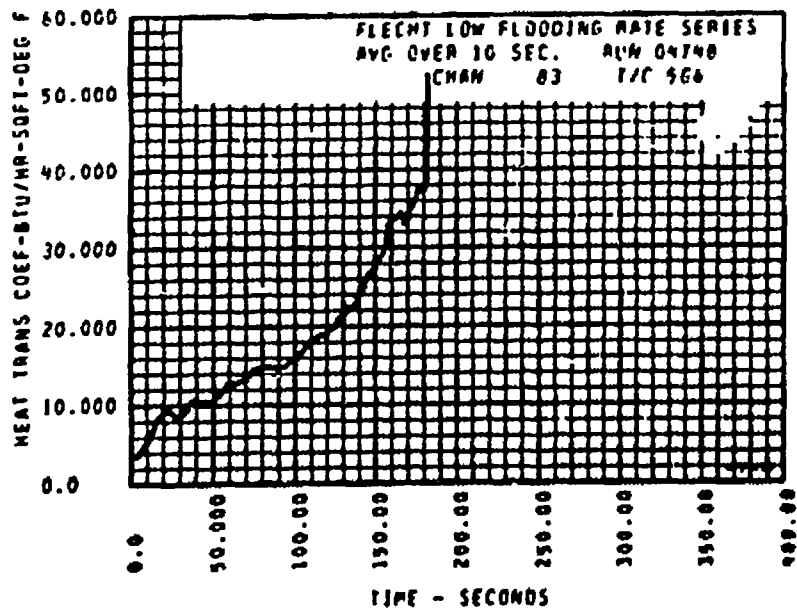
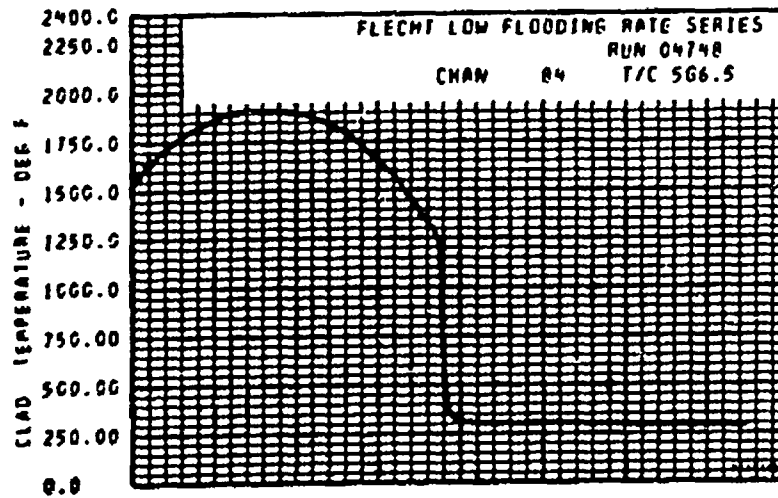
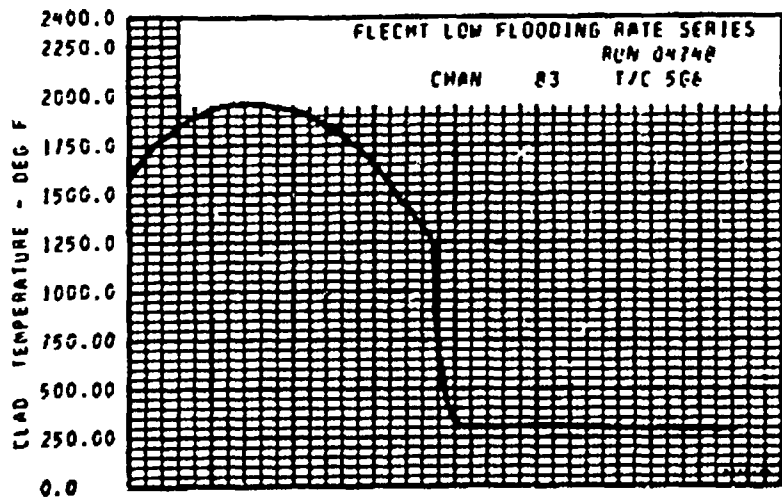
Back Side Elevation, Ft.	Temperature, °F
0	<u>220</u>
2	<u>448</u>
4	<u>592</u>
5.5	<u>661</u>
6	<u>674</u>
6.5	<u>557</u>
7	<u>554</u>
7.5	<u>563</u>
8	<u>594</u>
10	<u>440</u>
12	<u>271</u>
Average	<u>507</u>
Lower Plenum	<u>120</u>
Upper Plenum	<u>271</u>

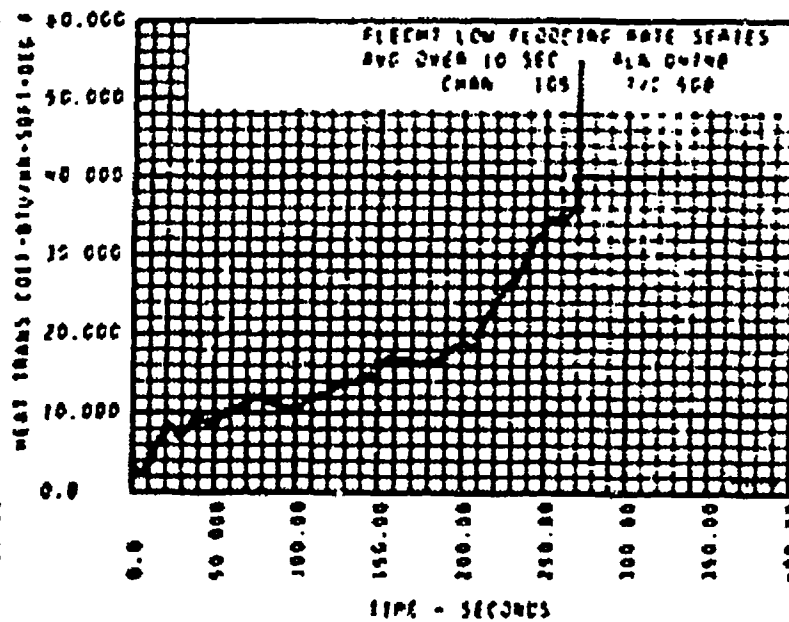
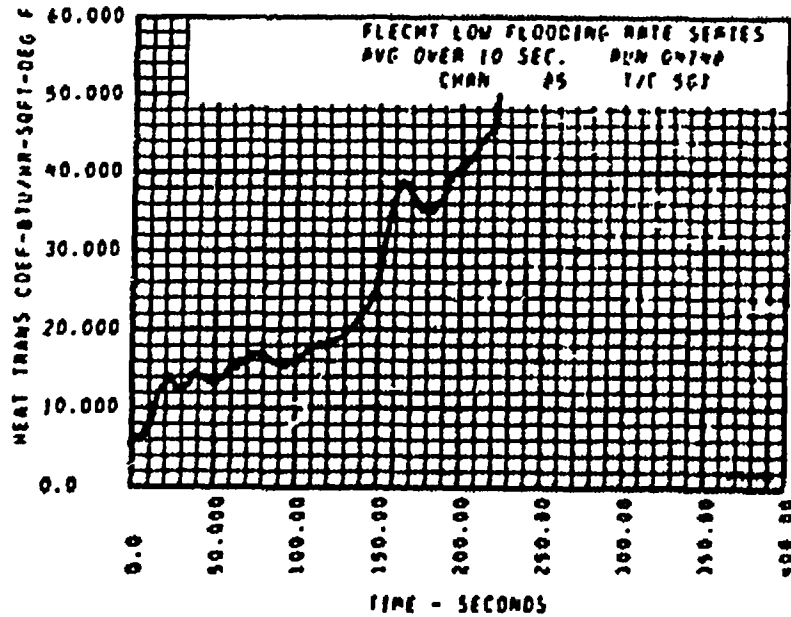
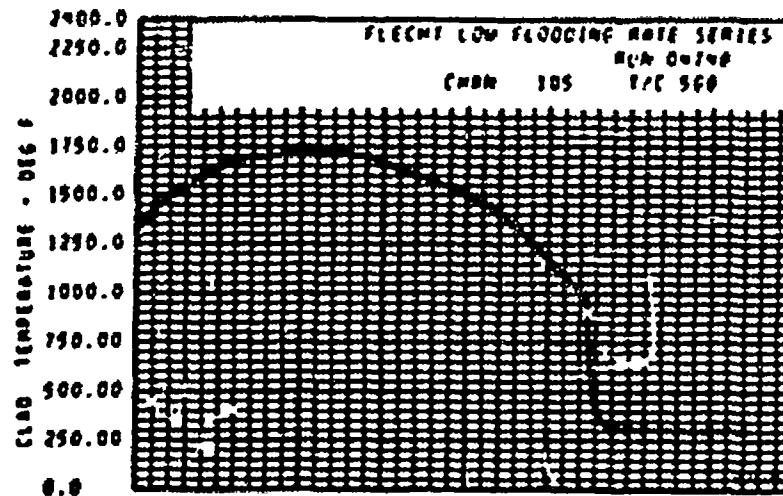
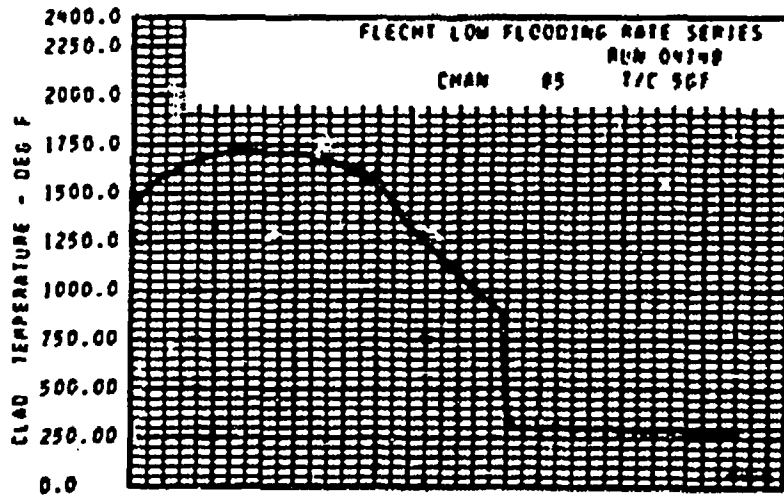
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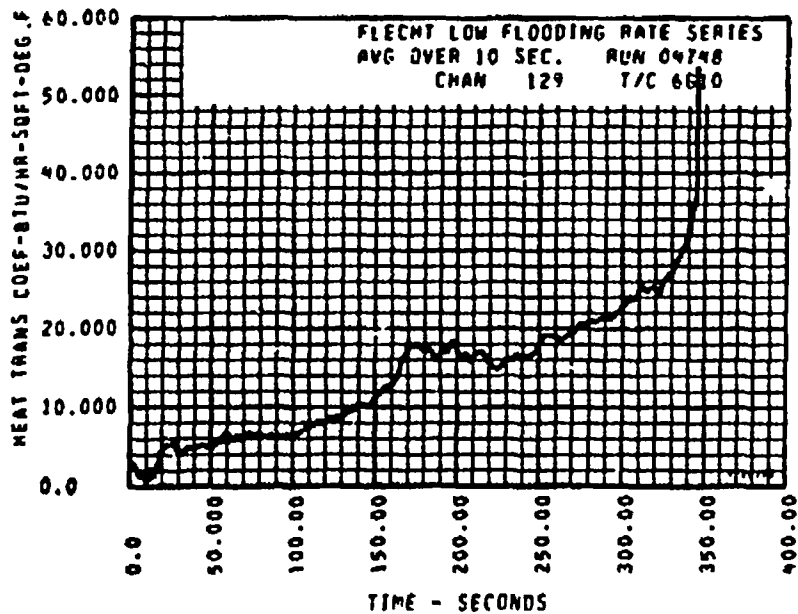
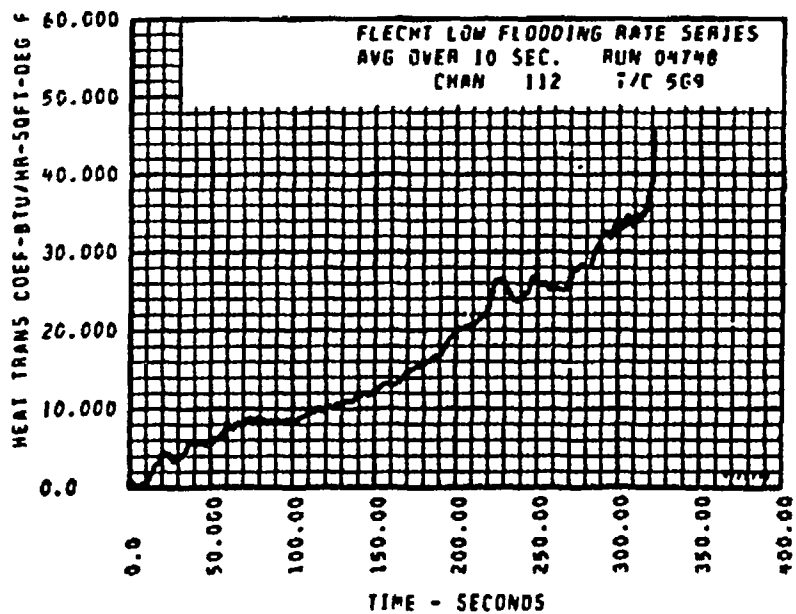
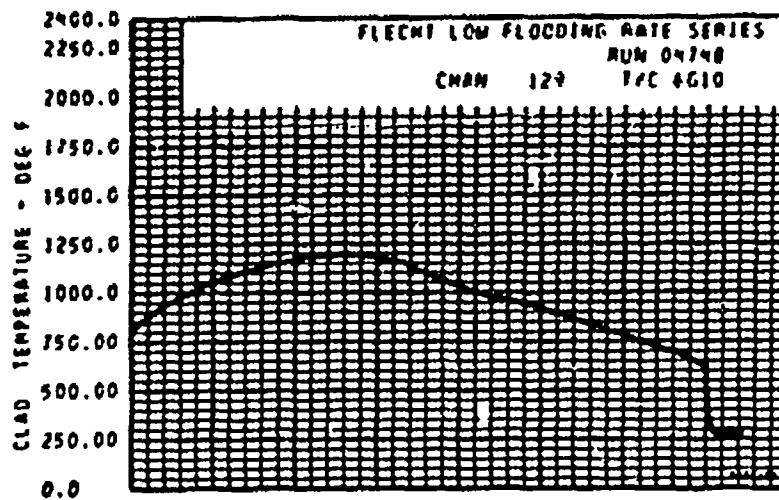
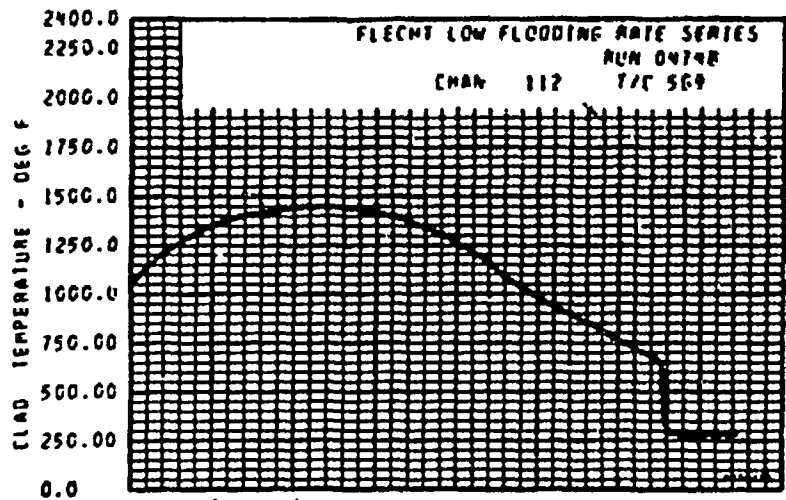
FLIGHT-LOW FLEWING DATA ROD THERMOCOUPLE DATA

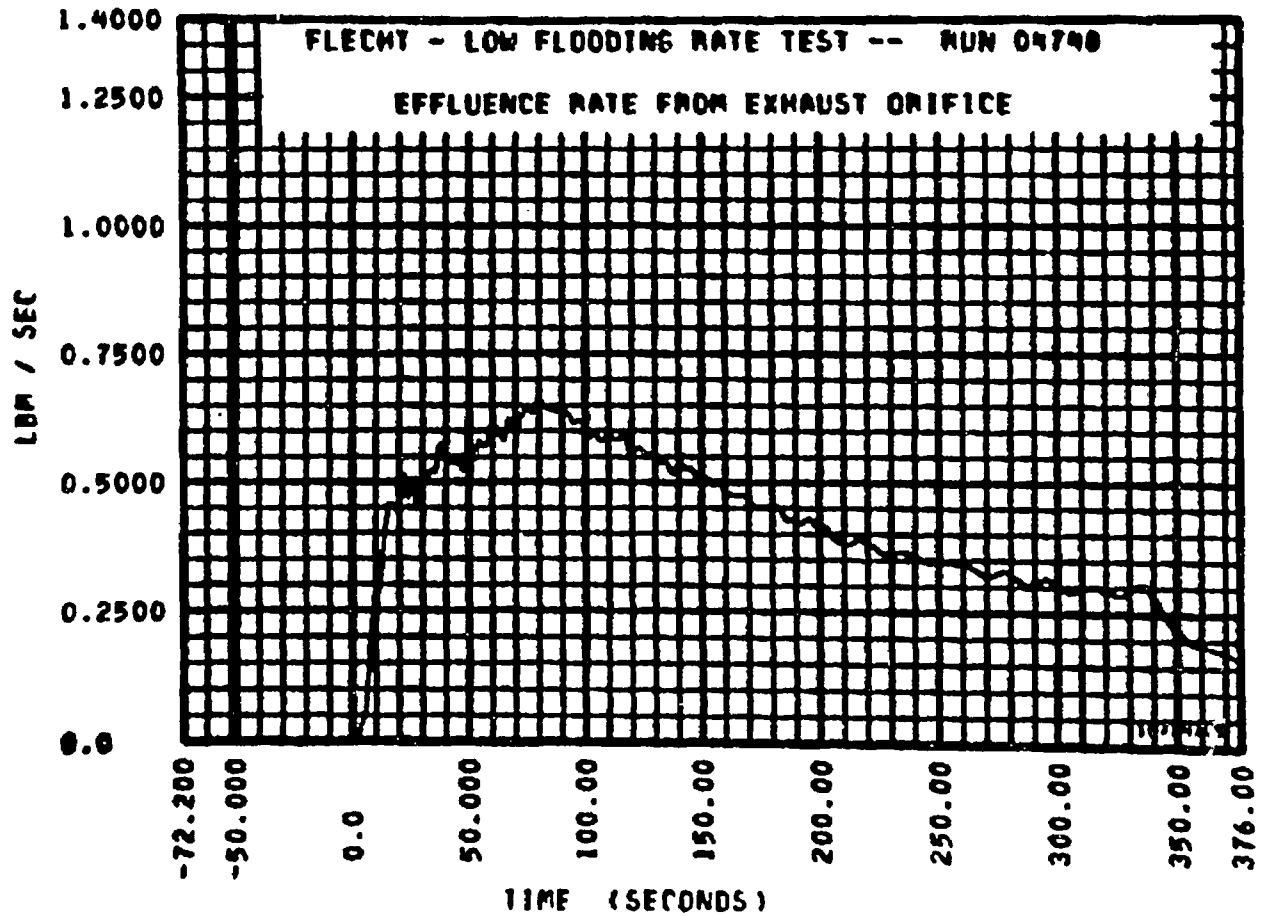
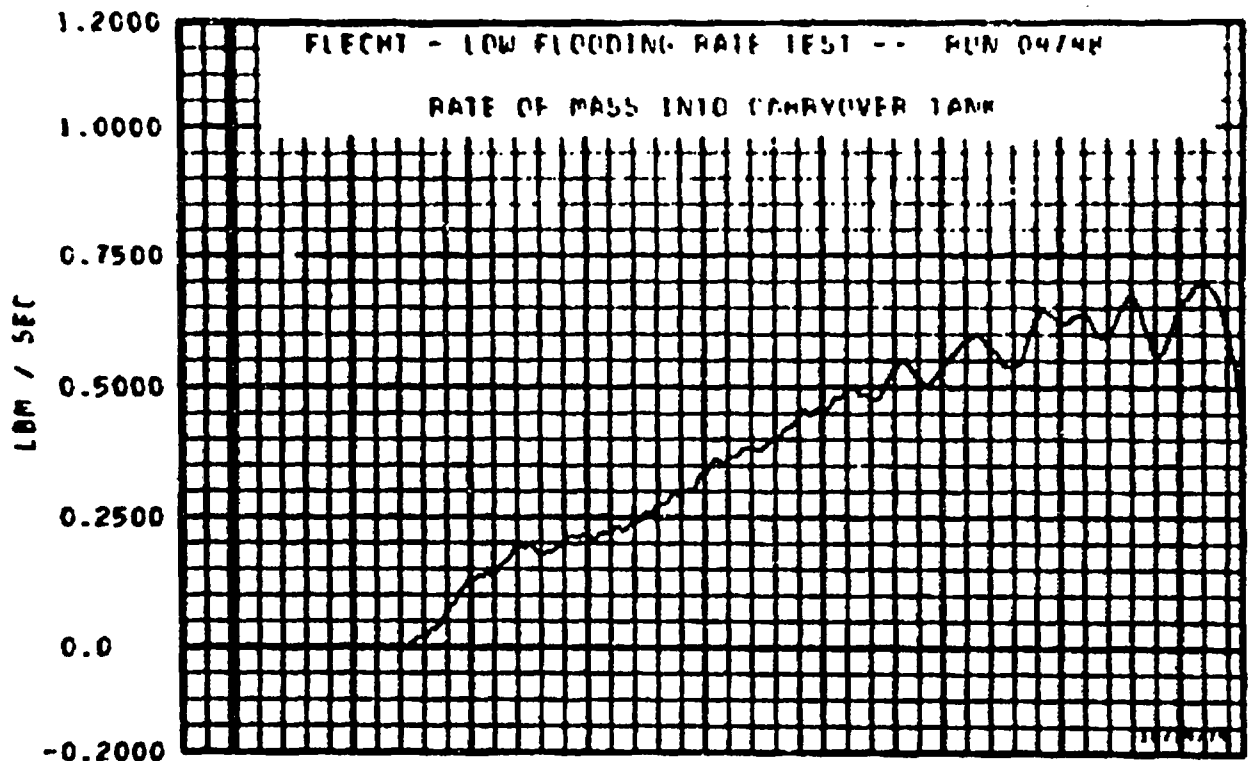
ROD/ELEV	TIME OF AT 214-2 ON (SEC.)	TIME OF PUNCH ON (SEC.)	INITIAL TEMPERATURE AT FLCCO (DEG.F)	RUN NUMBER MAXIMUM TEMPERATURE (DEG.F)	04744 TEMPERATURE RISE (DEG.F)	TURNAROUND TIME (SEC.)	QUENCH TEMPERATURE (DEG.F)	QUENCH TIME (SEC.)
4M0.5	274.	-67.2	618.	639.	21.	6.6	618.	6.5
4M1	337.	-67.2	691.	682.	31.	7.2	617.	18.3
4M1.5	304.	-67.2	642.	716.	34.	8.5	634.	27.6
4M2	334.	-68.2	911.	961.	53.	10.0	732.	41.5
4M4	533.	-67.2	1401.	1560.	159.	32.2	804.	119.1
4M6	533.	-67.2	1600.	1924.	323.	67.6	469.	213.9
8D6	412.	-67.2	1500.	1870.	370.	61.6	805.	219.9
8D6.5	478.	-67.2	1412.	1357.	439.	41.4	899.	233.0
8D7	423.	-67.2	1359.	1658.	299.	74.2	825.	261.4
8D8	433.	-67.2	1162.	1655.	473.	37.4	653.	295.7
8D9	334.	-67.2	975.	1265.	290.	74.3	569.	327.0
8D10	274.	-67.2	761.	1093.	333.	106.8	677.	311.9
8D11	274.	-67.2	610.	928.	219.	98.4	649.	277.8
8D12	269.	-67.2	497.	677.	190.	149.4	579.	206.1
9F0	293.	-67.2	346.	386.	0.	.2	386.	.8
9F0.5	302.	-67.2	613.	629.	16.	3.8	594.	8.3
9F1	293.	-68.2	617.	665.	28.	8.6	597.	17.6
9F1.5		* B A D T H E R M O C O U P L E						
9F2	410.	-67.2	882.	932.	50.	9.4	789.	39.8
9F3	520.	-67.2	1156.	1338.	82.	15.4	761.	72.7
9F4	584.	-67.2	1394.	1550.	156.	31.8	741.	118.9
9F6	574.	-68.2	1579.	1907.	329.	68.6	943.	198.7
9G6	578.	-67.2	1531.	1365.	384.	69.0	1238.	187.4
9G6.5	548.	-67.2	1521.	1910.	389.	73.8	1174.	188.6
9G7	498.	-67.2	1429.	1724.	296.	68.5	897.	227.9
9G8	520.	-66.2	1322.	1731.	409.	108.0	979.	274.7
9G9	409.	-67.2	1052.	1448.	397.	116.8	651.	326.9
9G11	273.	-67.2	616.	866.	250.	107.4	485.	342.9
9G12	270.	-67.2	580.	799.	219.	109.0	274.	328.0
1G4	599.	-67.2	1316.	1396.	80.	15.6	820.	186.2
1G6	645.	-68.2	1530.	1671.	141.	43.4	862.	214.8
1G10	399.	-67.2	826.	974.	148.	73.8	564.	342.9
3M2	425.	-67.2	922.	972.	50.	9.2	744.	38.8
3M6	618.	-67.2	1580.	1881.	301.	67.2	894.	215.8
3M8	547.	-67.2	1333.	1710.	376.	78.8	1027.	248.0
3M10	615.	-67.2	894.	1251.	256.	118.8	749.	386.8

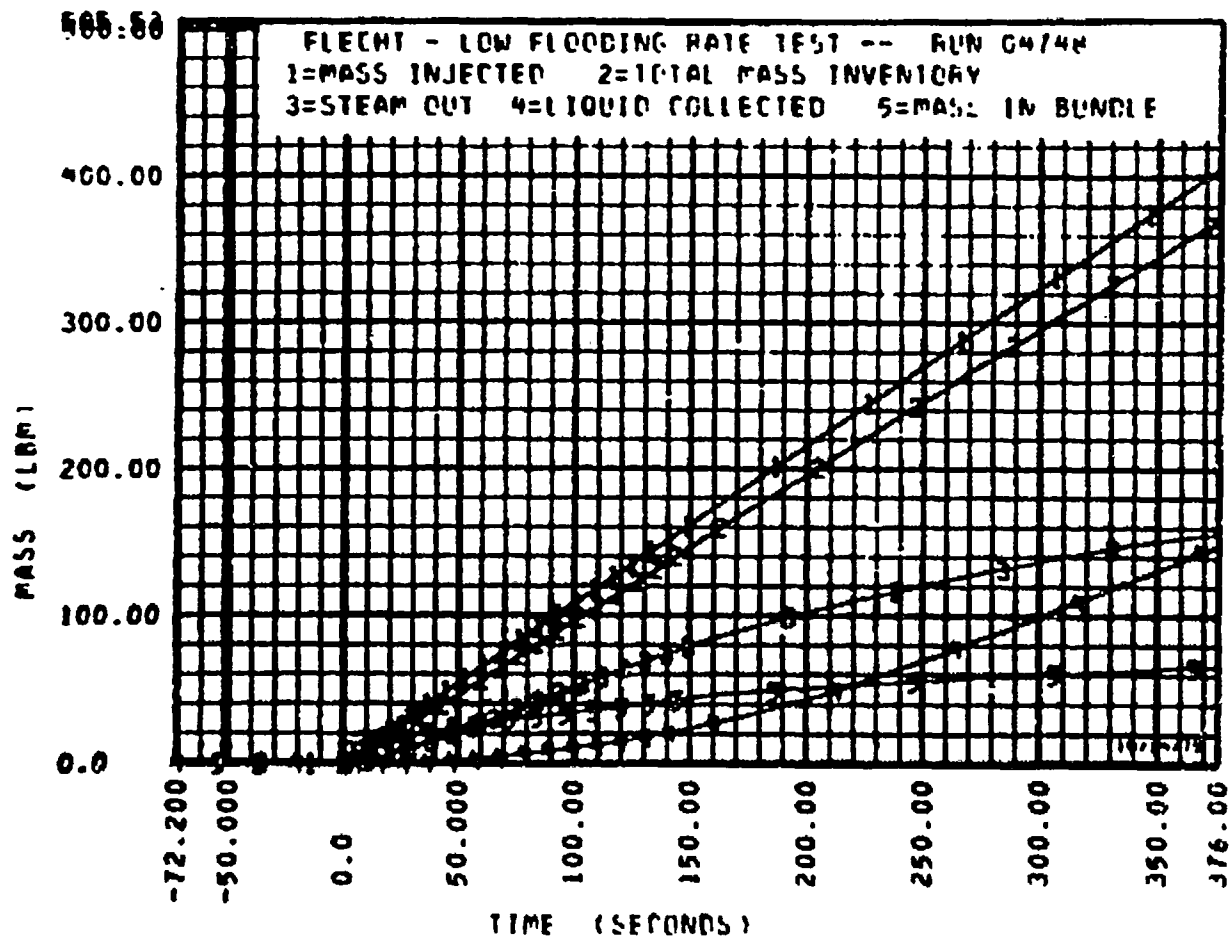


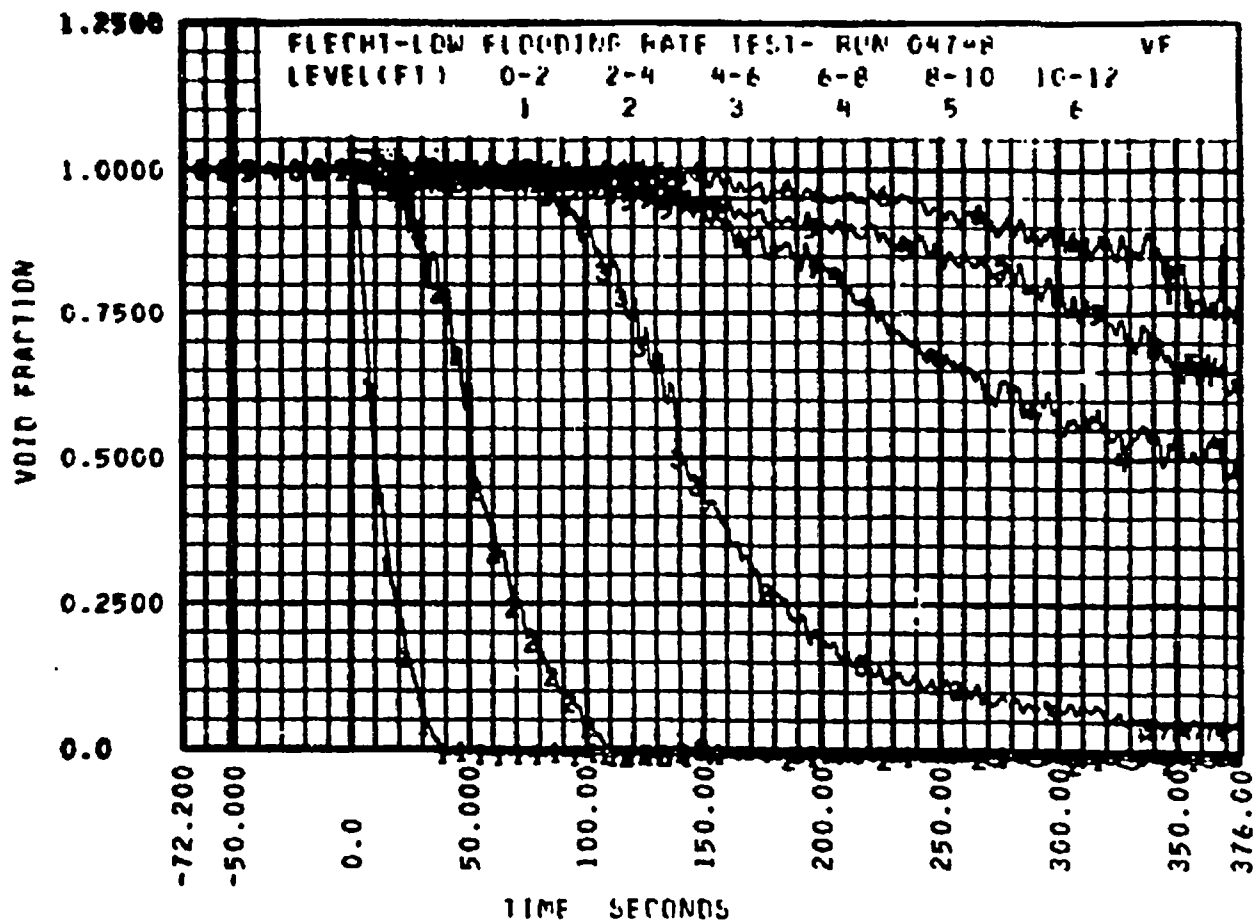
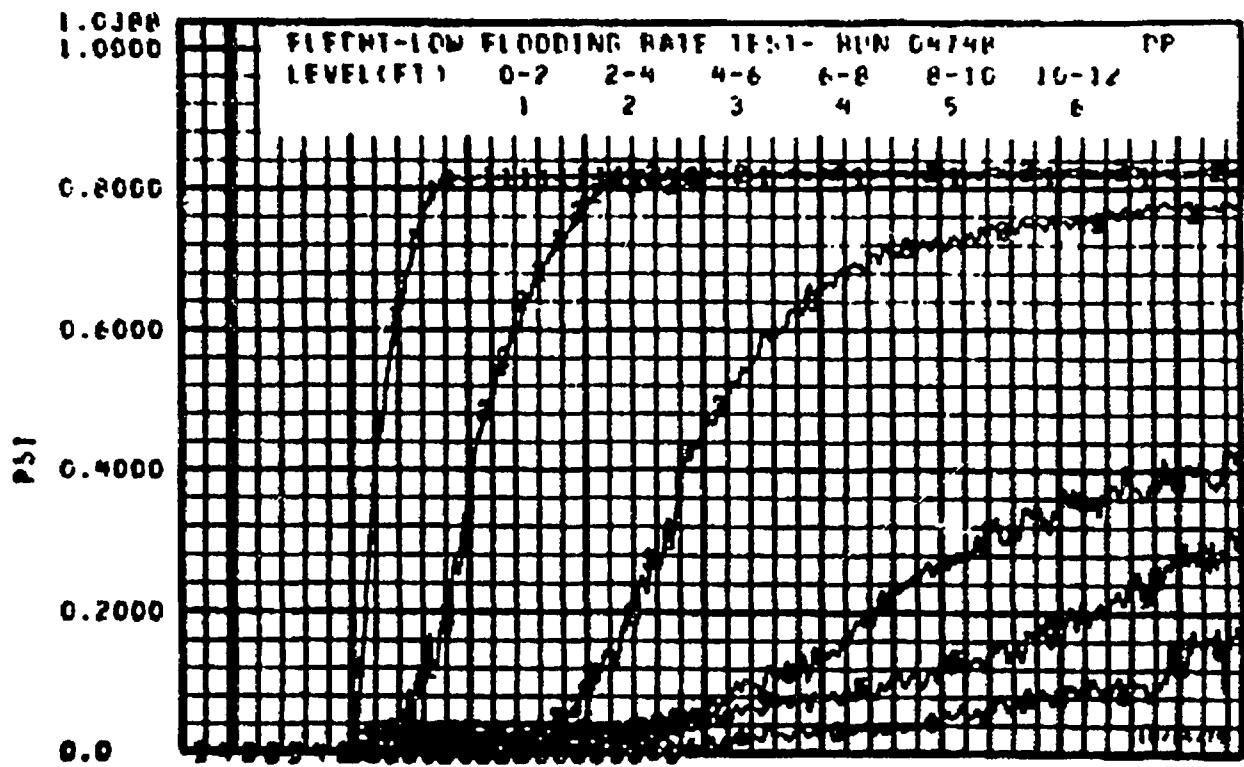


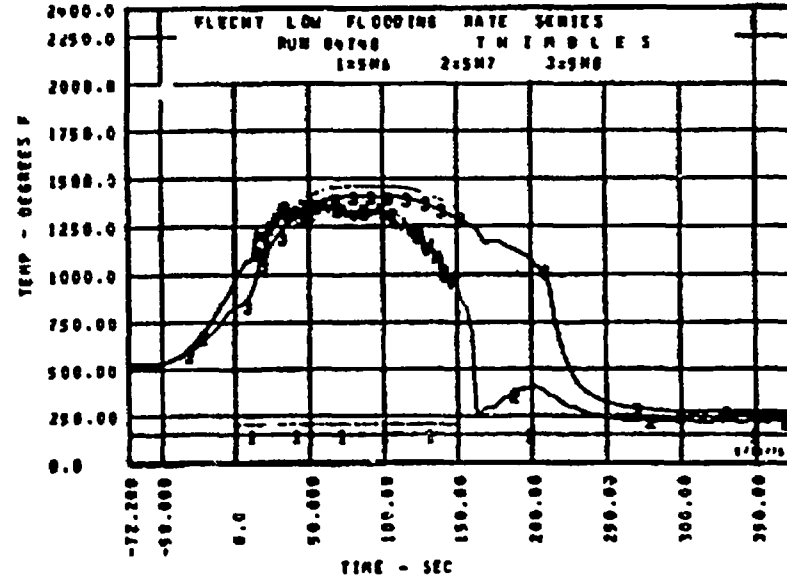
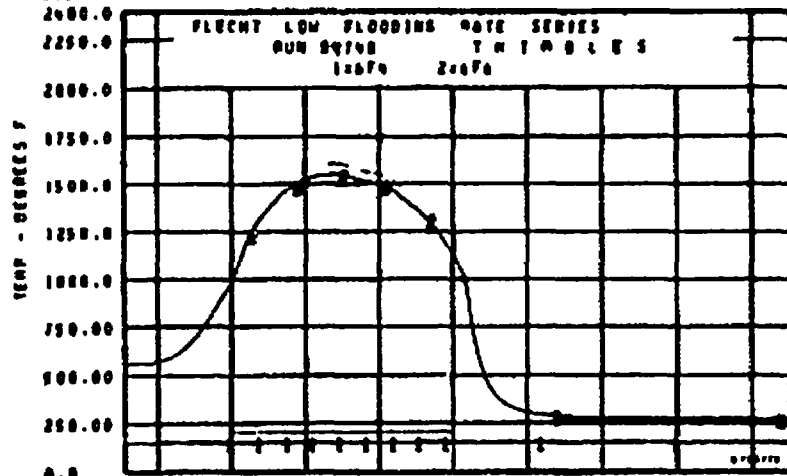
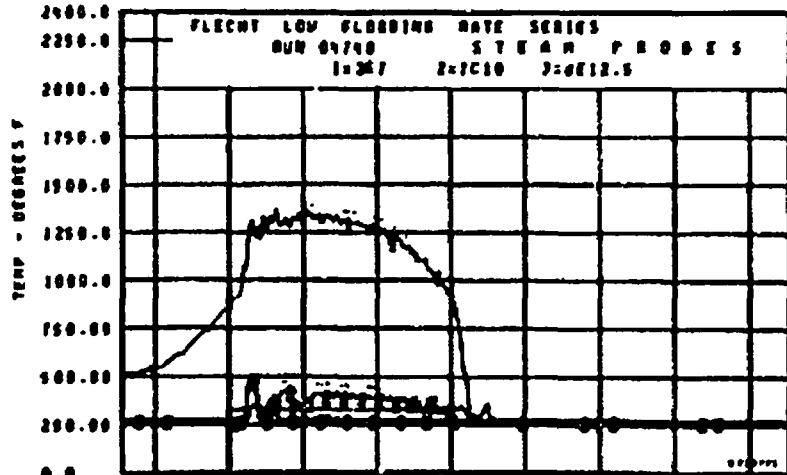


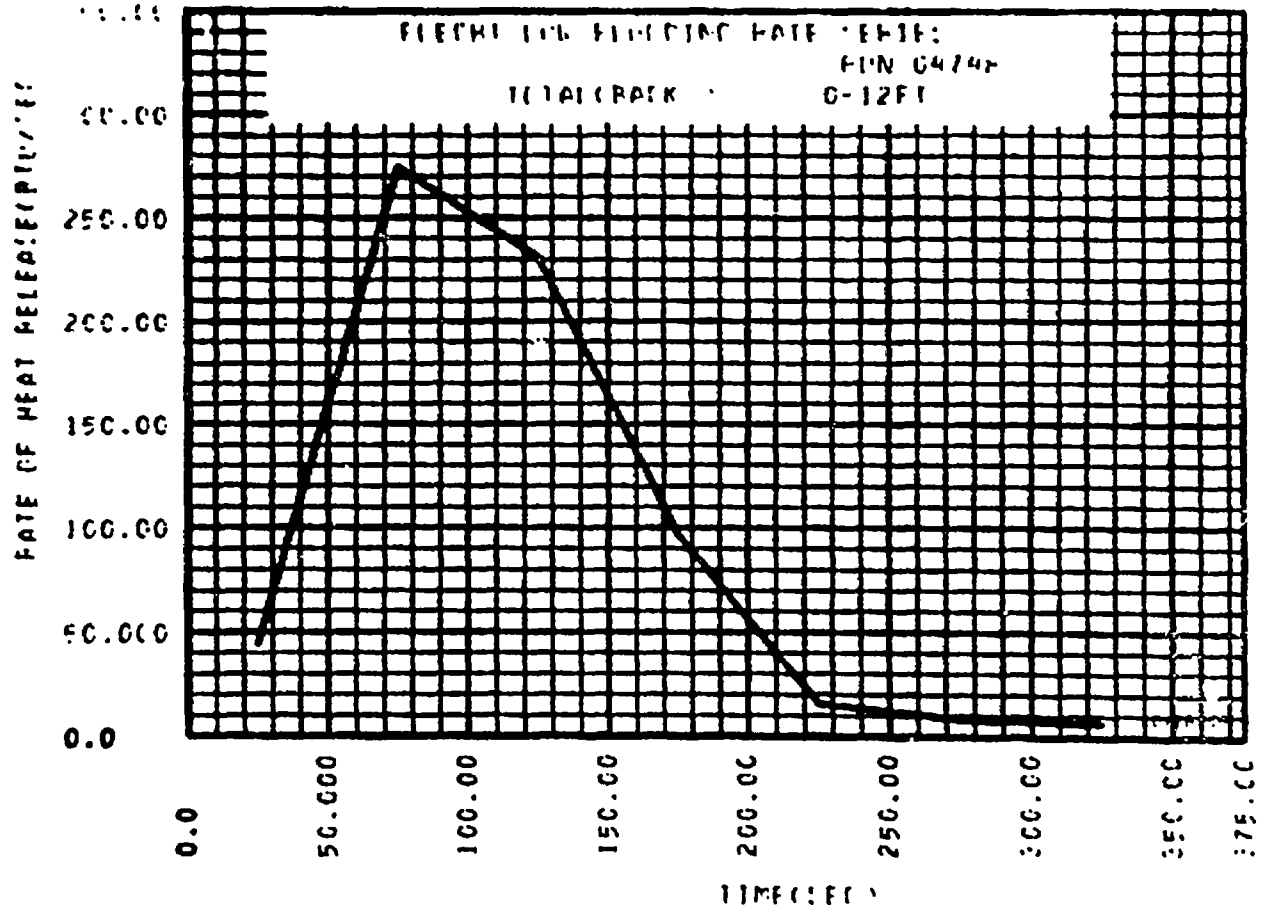
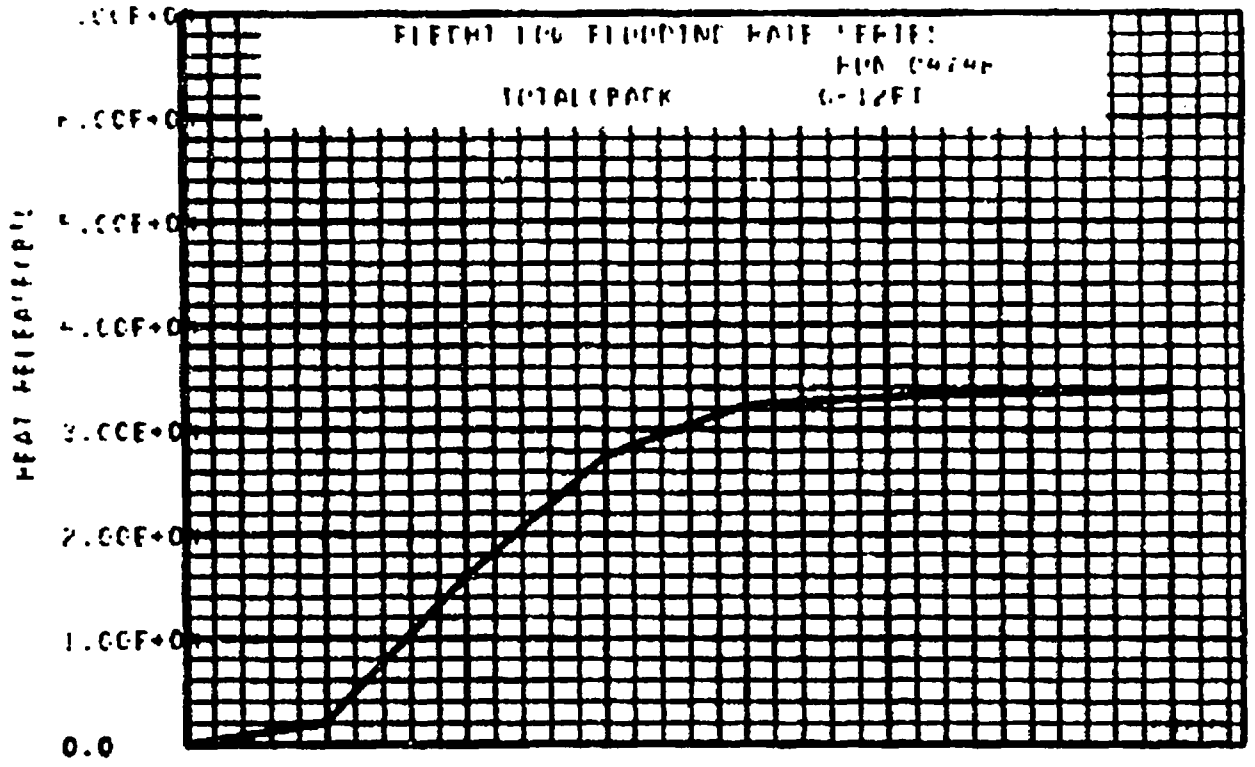












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FLECHT - LOW FLOODING RATE TEST

SUMMARY SHEET

COSINE AXIAL POWER PROFILE

RUN NO. 04831

DATE: 5/8/75

A. RUN CONDITIONS

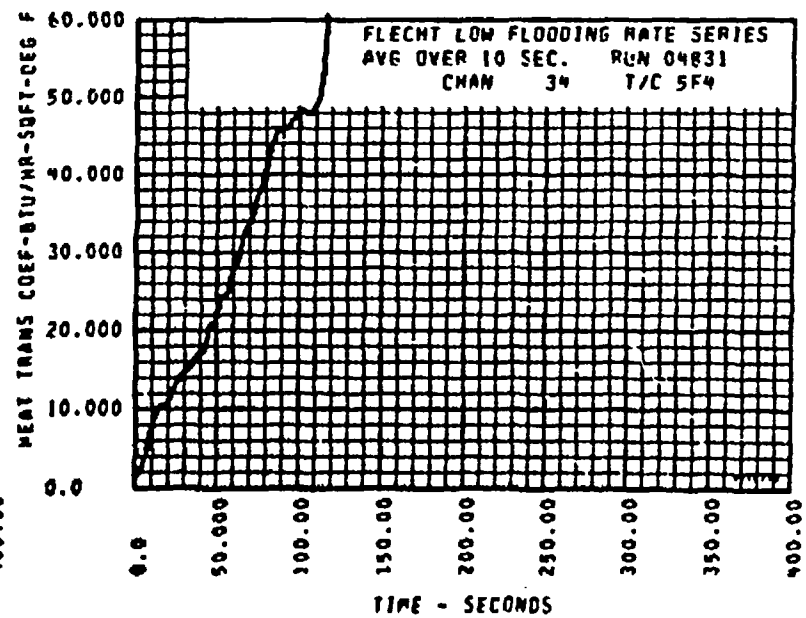
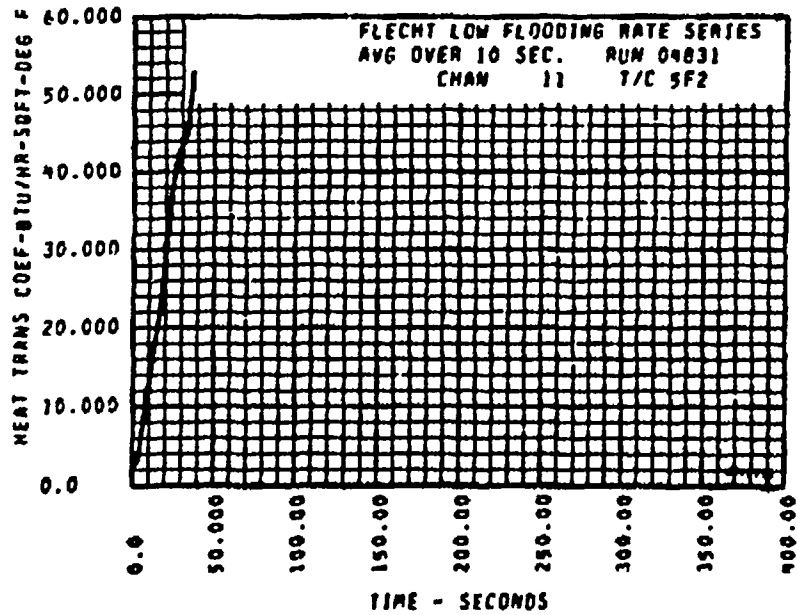
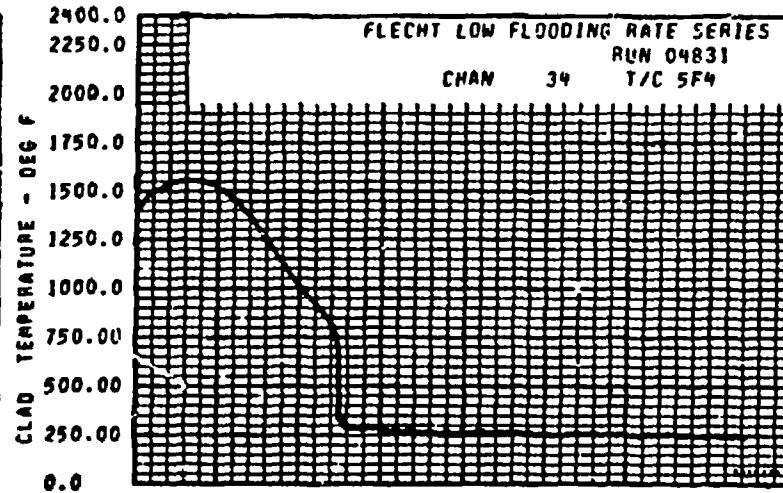
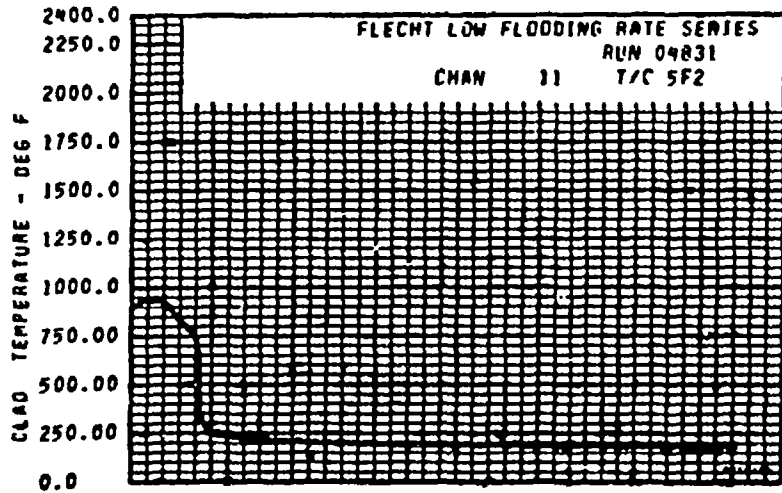
Upper Plenum Pressure, psia	<u>40</u>	
Initial Clad Temperature (6 Ft) ^o F At Flood	<u>1,600</u>	Rod T/C <u>4H6</u>
Rod Peak Power, kw/ft	<u>0.95</u>	
Flooding Rate, in/sec	<u>1.50</u>	
	<u>----</u>	
	<u>----</u>	
Coolant Temperature, ^o F	<u>125</u>	
Bundle Radial Power Profile	<u>FLECHT</u>	
Disconnected Rods	<u>7F</u>	

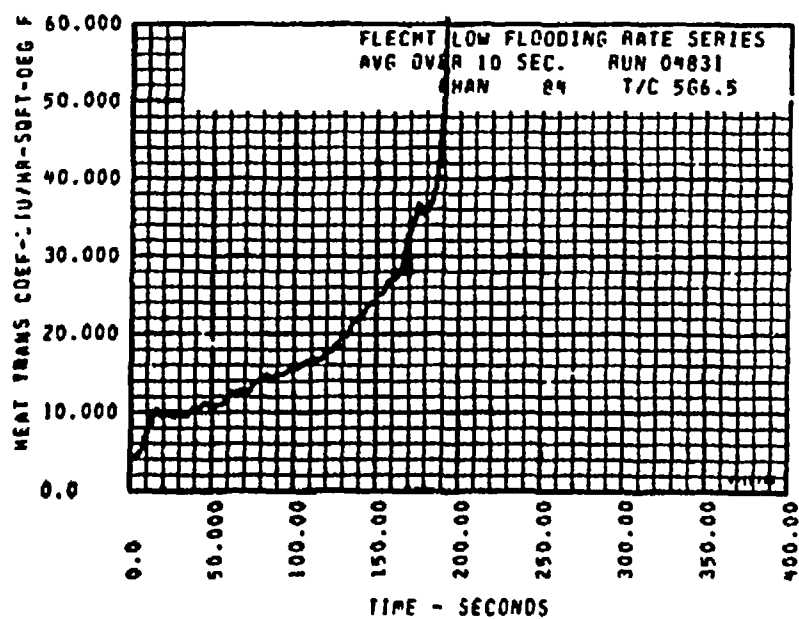
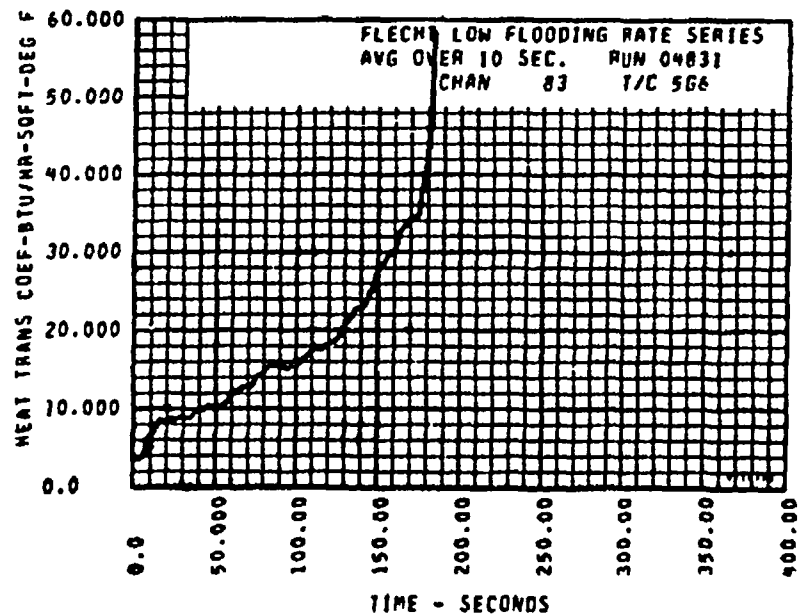
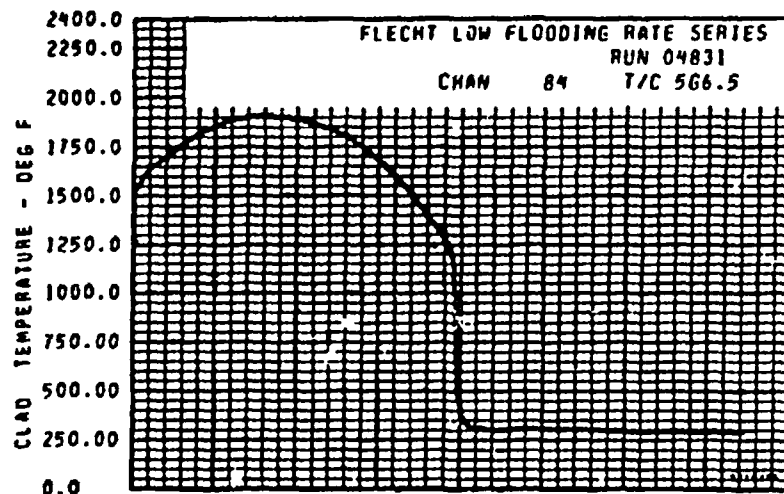
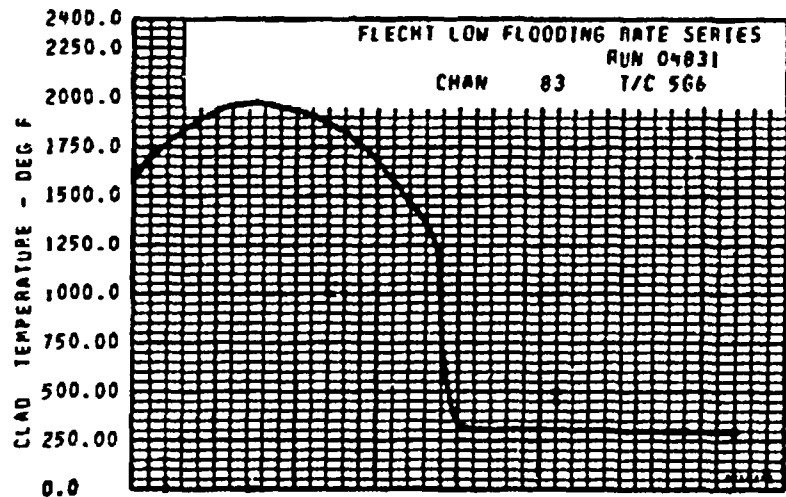
B. INITIAL HOUSING TEMPERATURE

Back Side Elevation, Ft.	Temperature, ^o F
0	<u>233</u>
2	<u>451</u>
4	<u>600</u>
5.5	<u>650</u>
6	<u>668</u>
6.5	<u>555</u>
7	<u>549</u>
7.5	<u>550</u>
8	<u>564</u>
10	<u>429</u>
12	<u>271</u>
Average	<u>502</u>
Lower Plenum	<u>122</u>
Upper Plenum	<u>358</u>

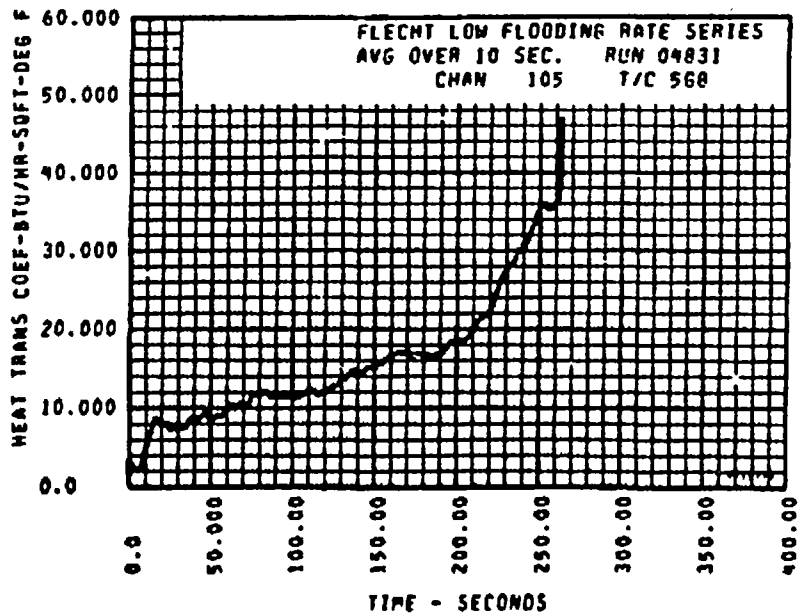
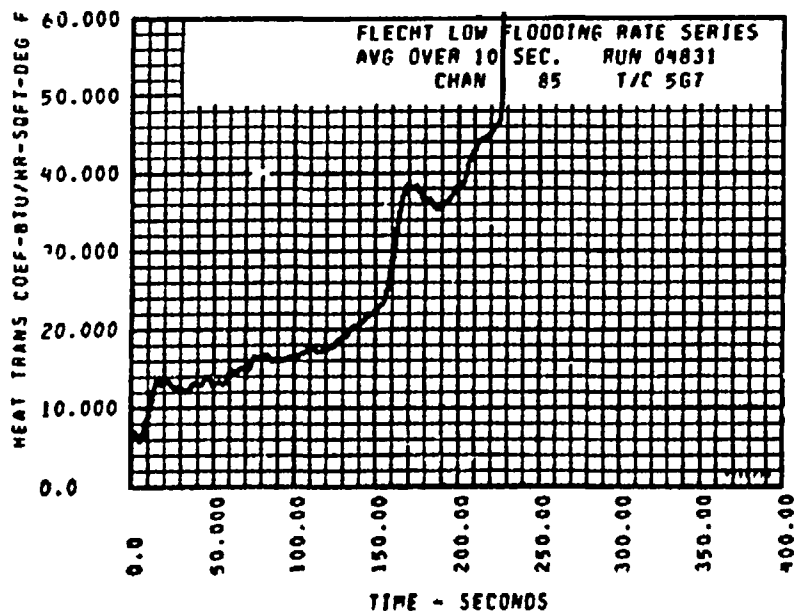
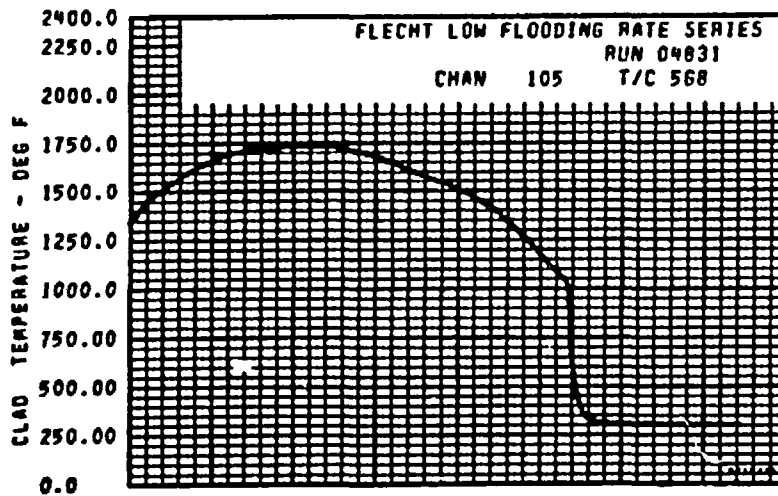
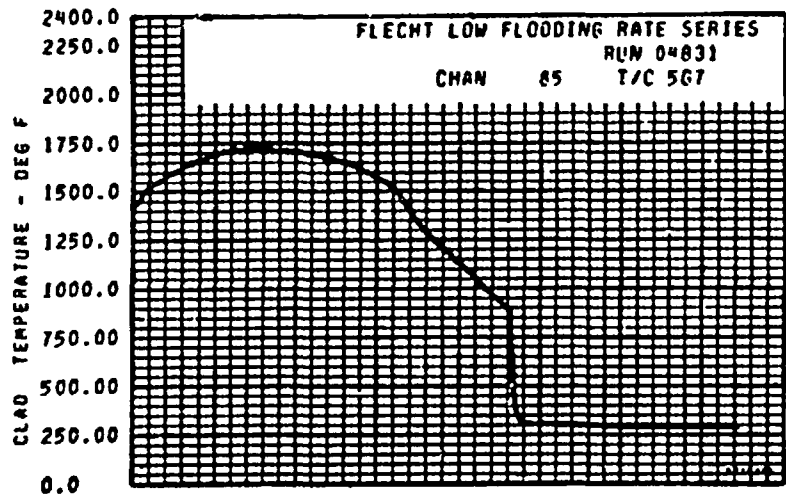
FLECHT-LOW FLOCCING RATE PCC THERMOCOUPLE DATA

ROD/ELV	TEMP RATING AT 11M ? (DEG.F)	TEMP OF MIM. ON (DEG.F)	INITIAL TEMPERATURE AT FLOCC (DEG.F)	MINIMUM TEMPERATURE (DEG.F)	MAXIMUM TEMPERATURE (DEG.F)	TURNAROUND TIME (SEC.)	QUENCH TEMPERATURE (DEG.F)	QUENCH TIME (SEC.)
4M0.5	274.	-44.4	627.	644.	71.	4.4	616.	9.9
4M1	274.	-44.4	656.	647.	31.	7.4	633.	17.2
4M1.5	270.	-43.4	645.	719.	15.	2.3	674.	28.0
4M2	277.	-43.4	925.	977.	40.	9.4	766.	47.2
4M4	277.	-43.4	1616.	1582.	165.	11.0	403.	123.3
4M6	277.	-44.4	1637.	1940.	339.	74.6	454.	219.0
806	277.	-44.4	1511.	1340.	370.	43.0	754.	217.7
806.5	277.	-44.4	1671.	1340.	449.	43.2	918.	234.0
807	277.	-44.4	1477.	1644.	106.	75.2	433.	262.9
804	270.	-43.4	1226.	1645.	459.	91.4	755.	277.1
809	275.	-43.4	1019.	1312.	294.	71.2	60.	116.0
8010	275.	-43.4	813.	1114.	311.	103.9	44.	102.4
8011	275.	-44.4	673.	459.	275.	110.2	470.	249.3
8012	270.	-44.4	497.	593.	196.	171.5	492.	296.8
9F0	277.	-44.4	134.	174.	2.	4	42.	0.7
9F0.5	277.	-44.4	671.	447.	17.	4.3	44.	9.5
9F1	277.	-44.4	140.	547.	27.	5.4	49.	17.4
9F1.5	277.	-44.4	140.	547.	27.	5.4	49.	17.4
9F2	277.	-44.4	491.	717.	46.	8.4	71.	41.4
9F3	277.	-44.4	114.	174.	55.	71.2	741.	74.6
9F4	277.	-44.4	1616.	1741.	155.	12.5	743.	123.9
9F6	277.	-44.4	1534.	1915.	314.	72.5	910.	233.5
9G6	277.	-44.4	1122.	1374.	404.	75.2	1233.	142.6
9G6.5	277.	-44.4	1117.	1417.	396.	76.2	1180.	194.7
9G7	277.	-44.4	1417.	1715.	313.	75.2	445.	232.0
9G4	277.	-44.4	1347.	1717.	394.	104.7	1022.	267.9
9G9	277.	-44.4	1044.	1457.	388.	179.2	451.	223.0
9G11	277.	-44.4	844.	474.	250.	118.2	432.	326.8
9G12	277.	-44.4	594.	423.	297.	193.5	767.	381.8
1G4	277.	-44.4	1511.	1416.	44.	20.4	818.	105.4
1G6	277.	-44.4	1534.	1677.	141.	31.2	459.	216.9
1G10	277.	-44.4	734.	744.	146.	70.4	242.	145.0
3M2	277.	-44.4	413.	674.	44.	8.4	744.	14.5
3M6	277.	-44.4	1504.	1446.	292.	40.2	443.	219.0
3M8	277.	-44.4	1344.	1715.	373.	43.6	1032.	250.4
3M10	277.	-44.4	444.	174.	157.	113.2	744.	308.7

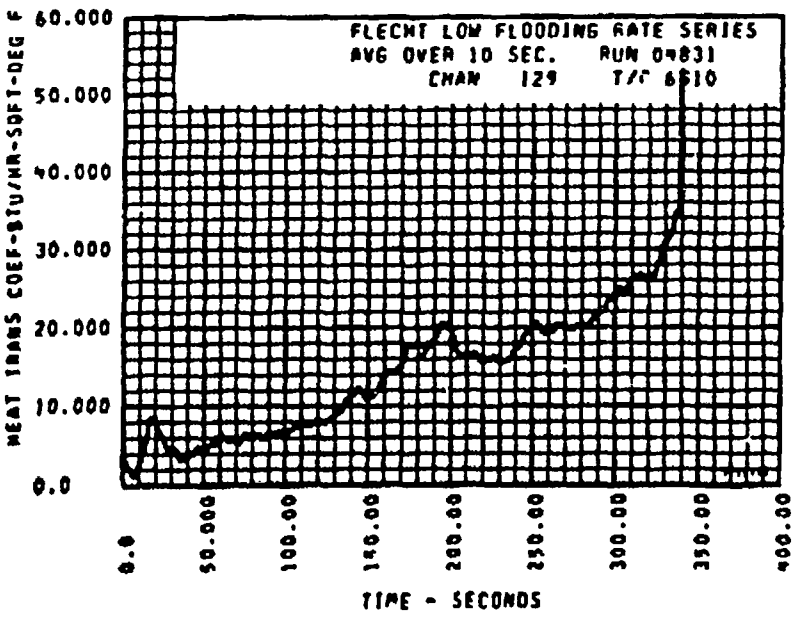
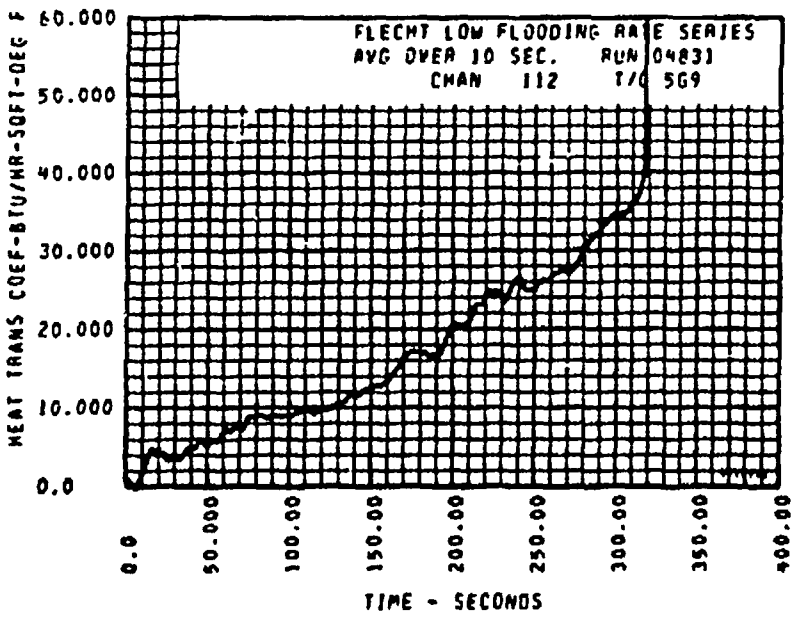
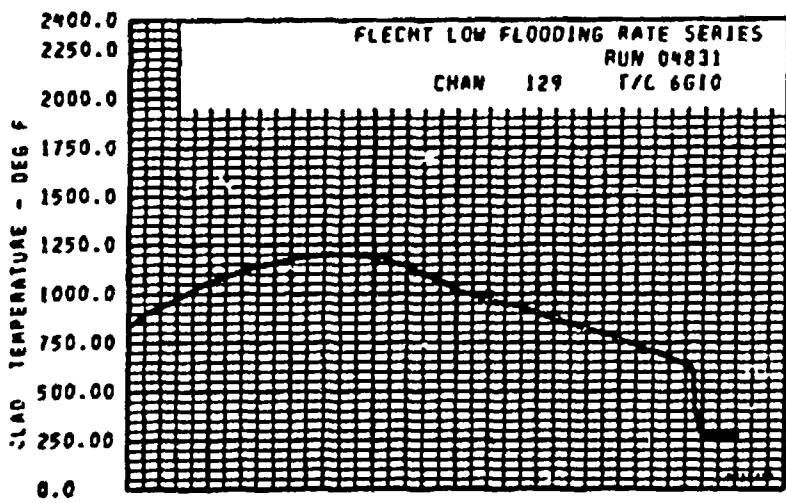
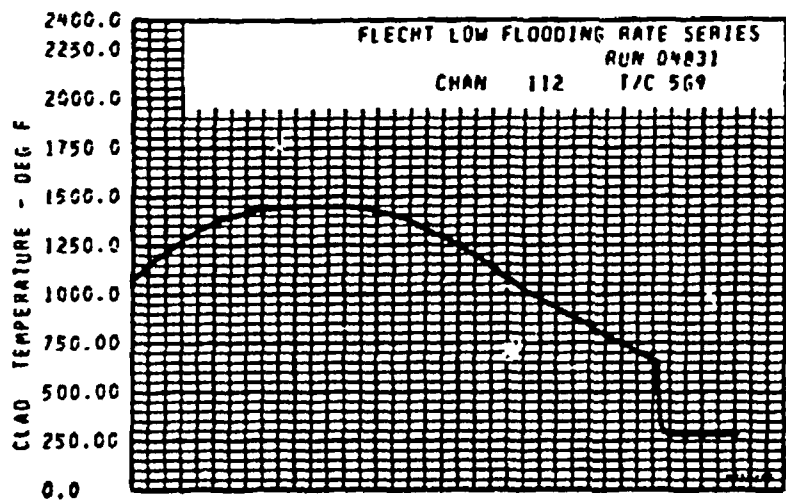


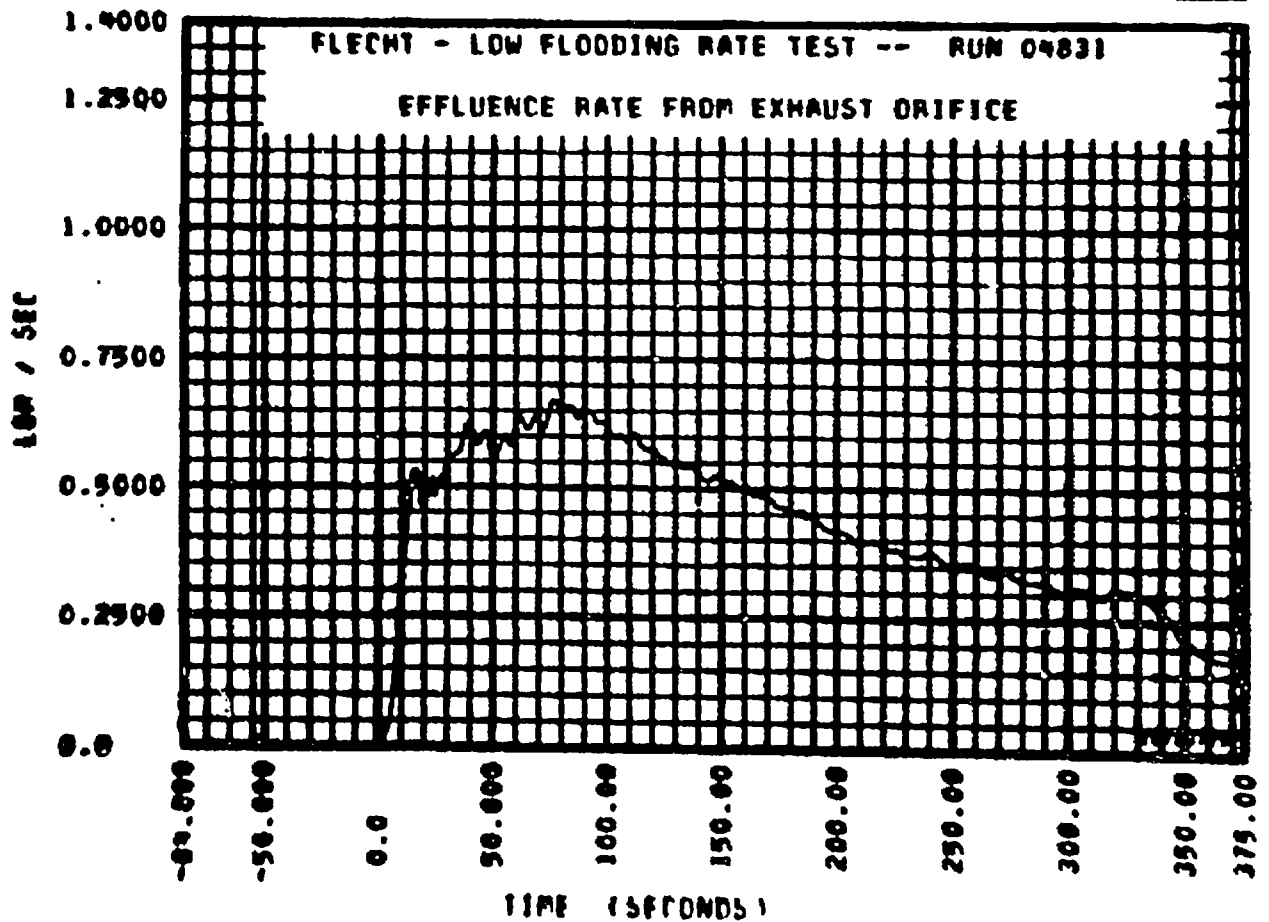
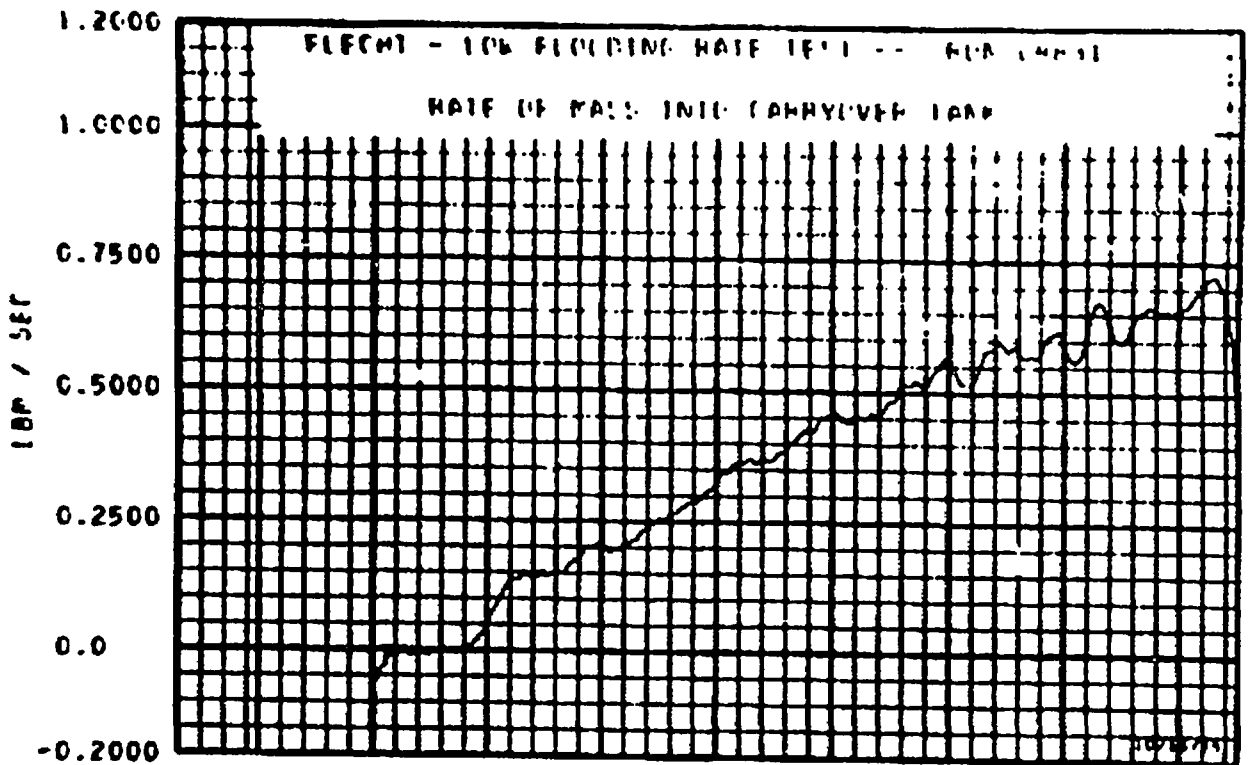


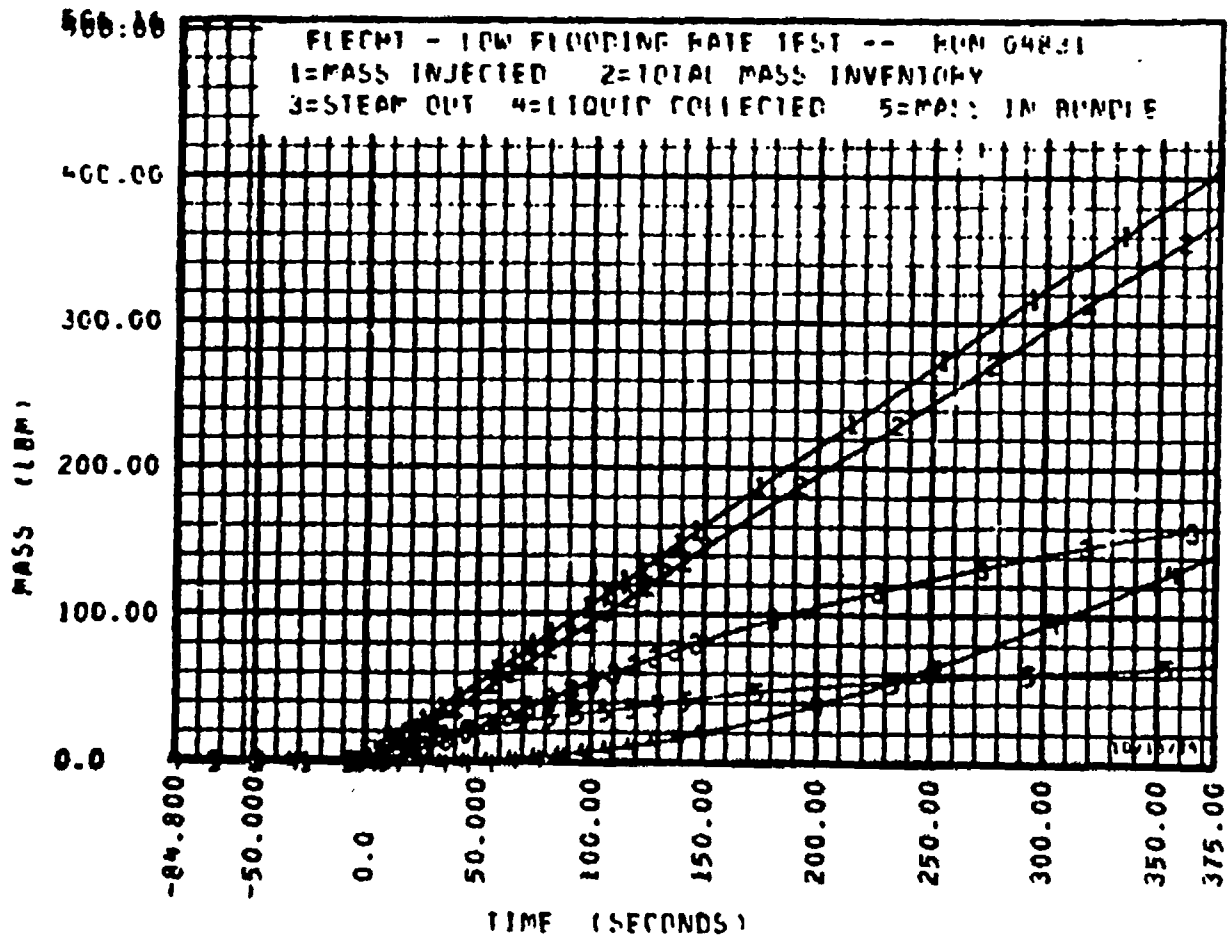
This document contains information that is classified "Secret" under Executive Order 13526, Section 1.4, because it is information that is specifically identified by the classification authority as being subject to this classification.

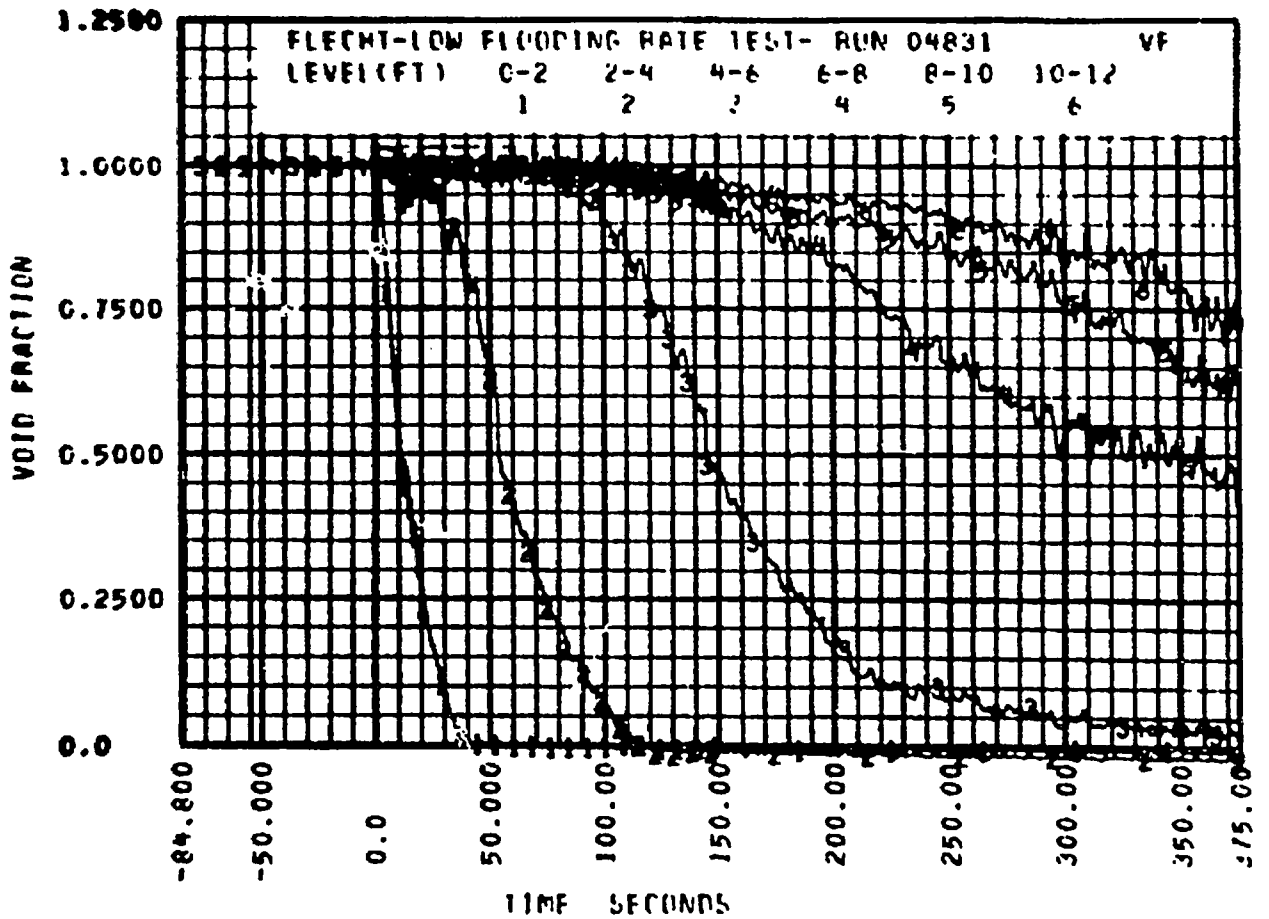
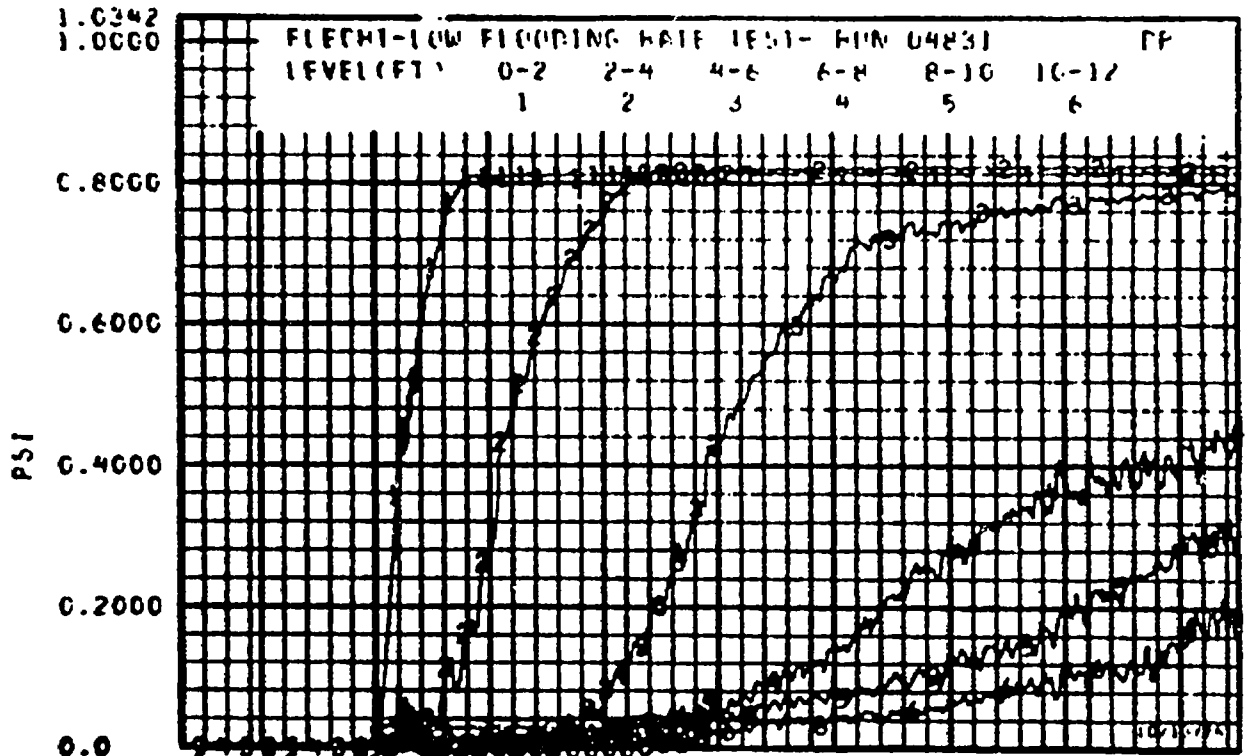


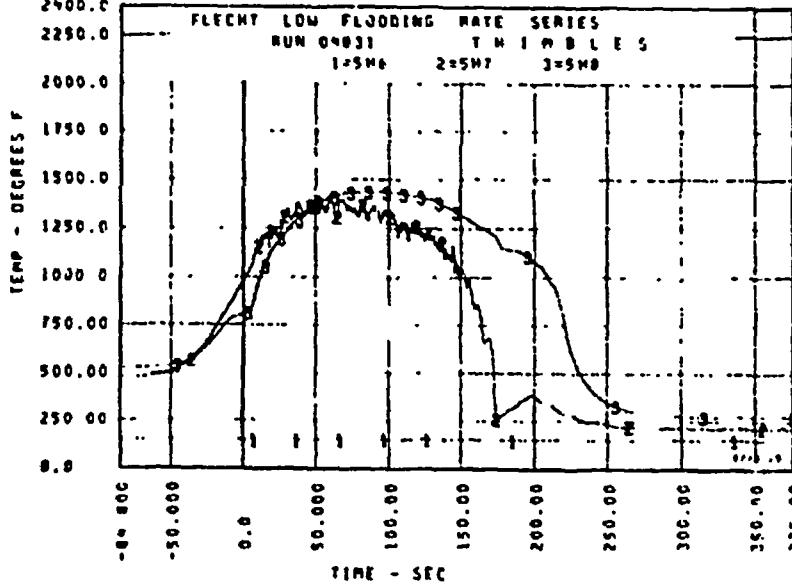
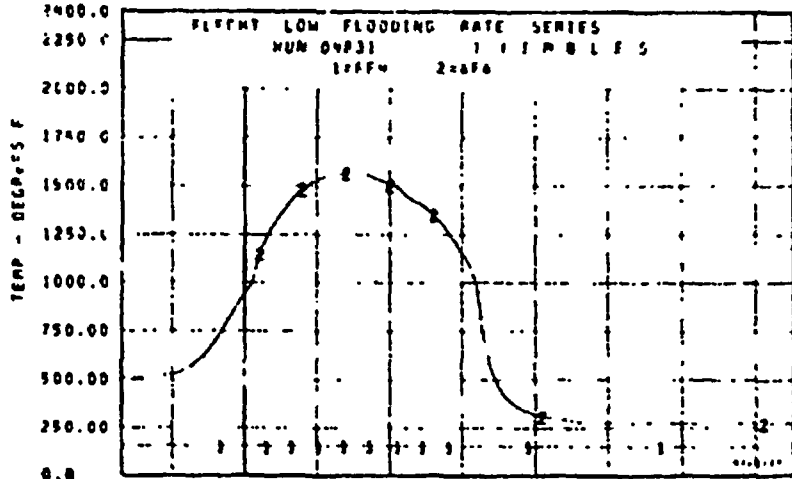
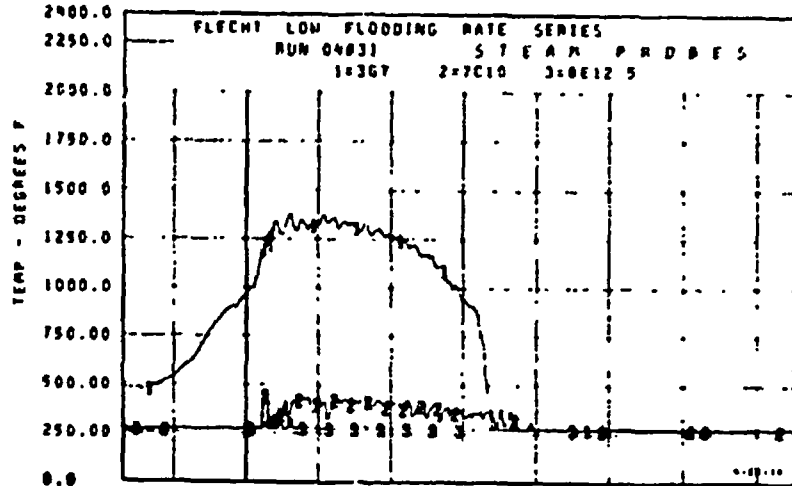
This document contains information that is unclassified but may contain information that is exempt from release under the Freedom of Information Act (5 U.S.C. 552).

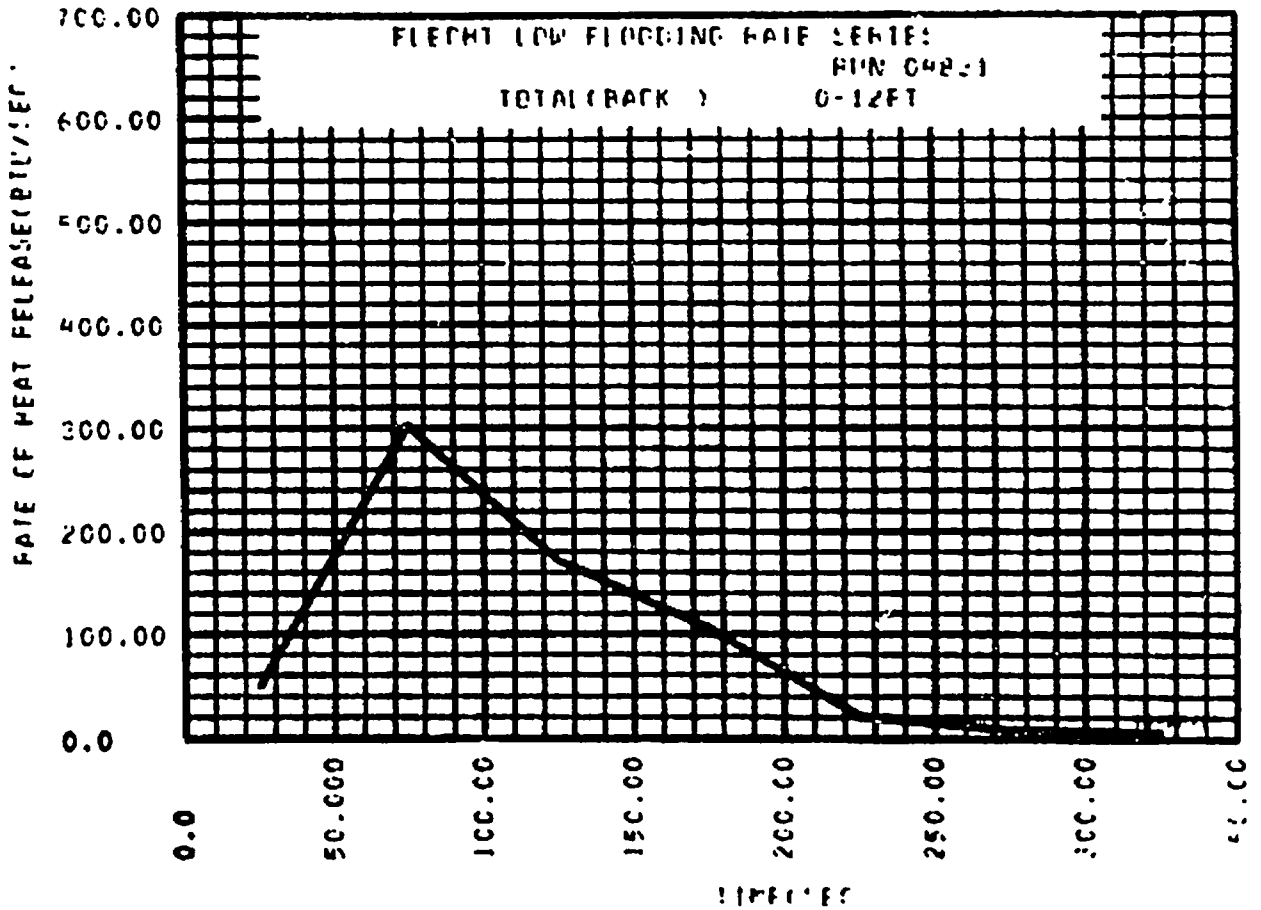
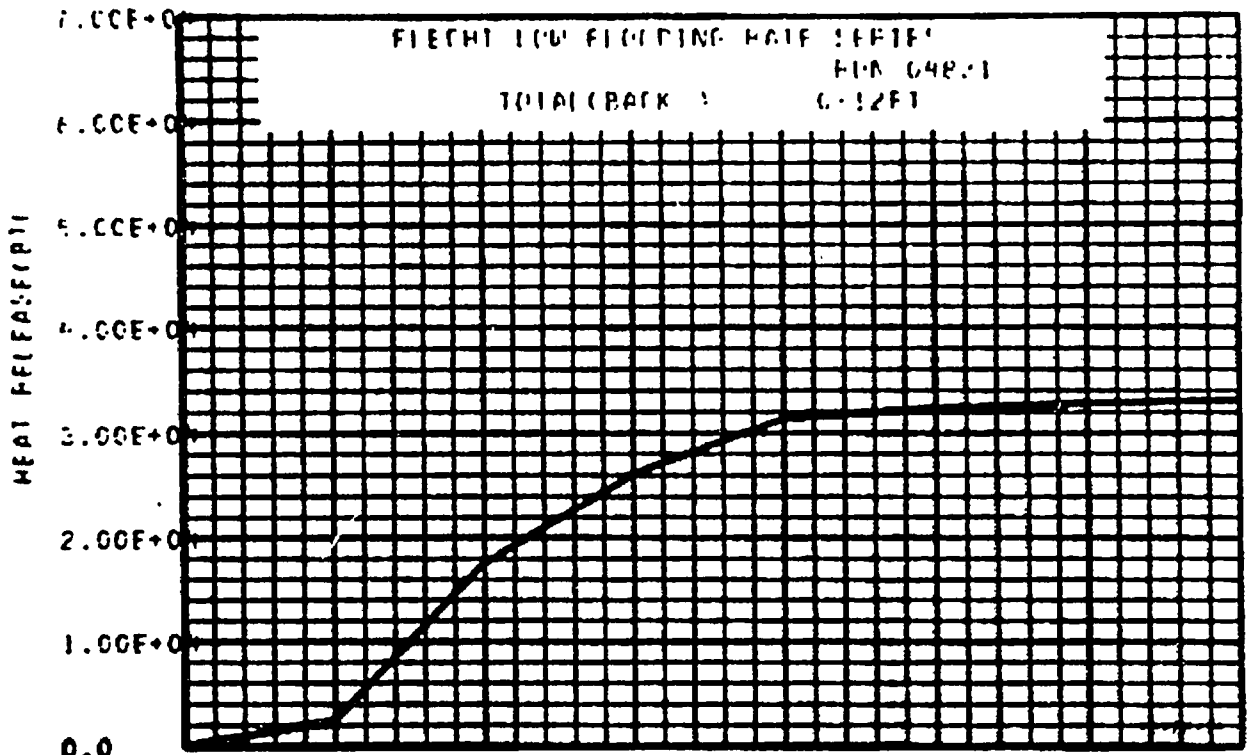


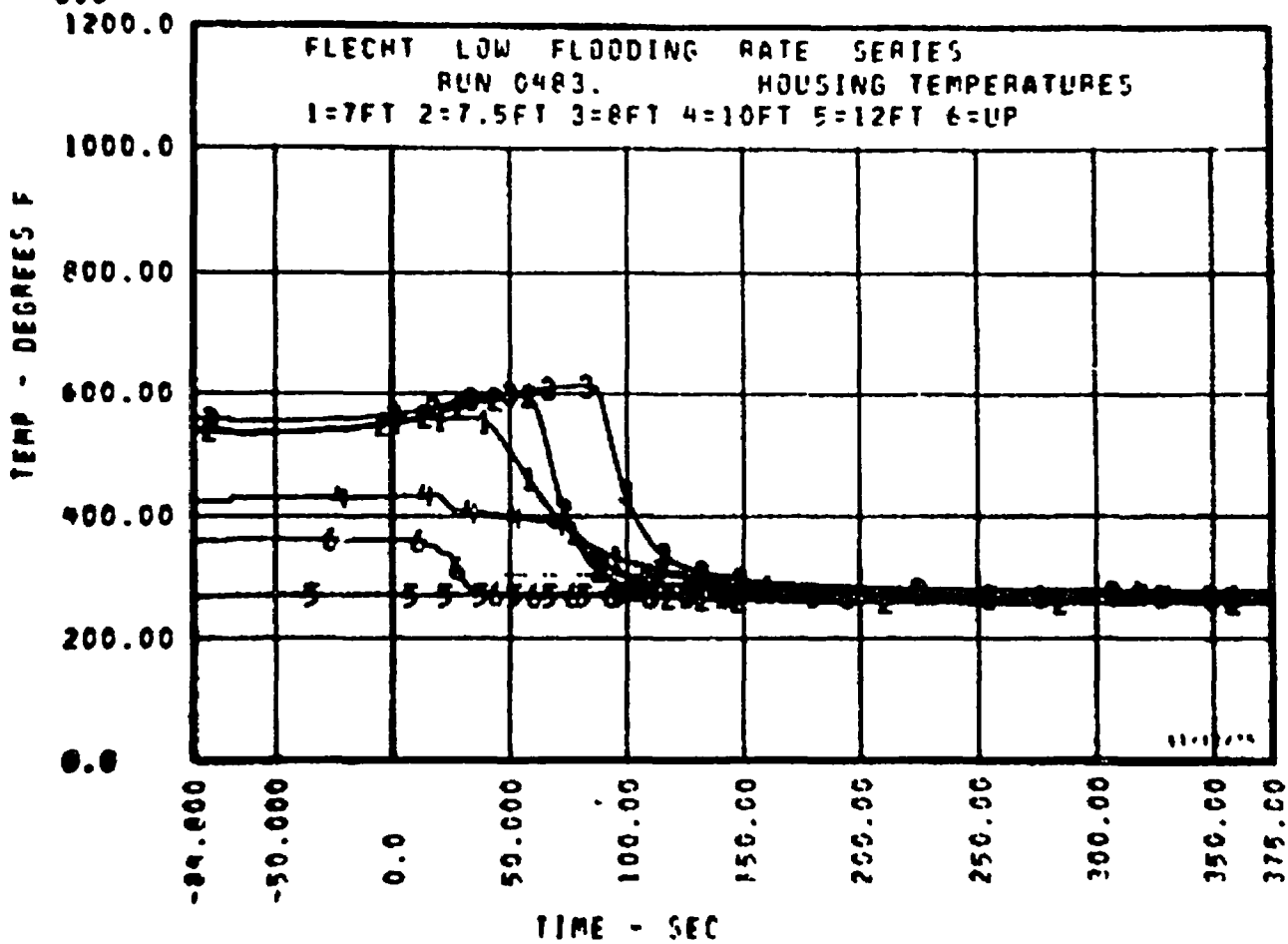
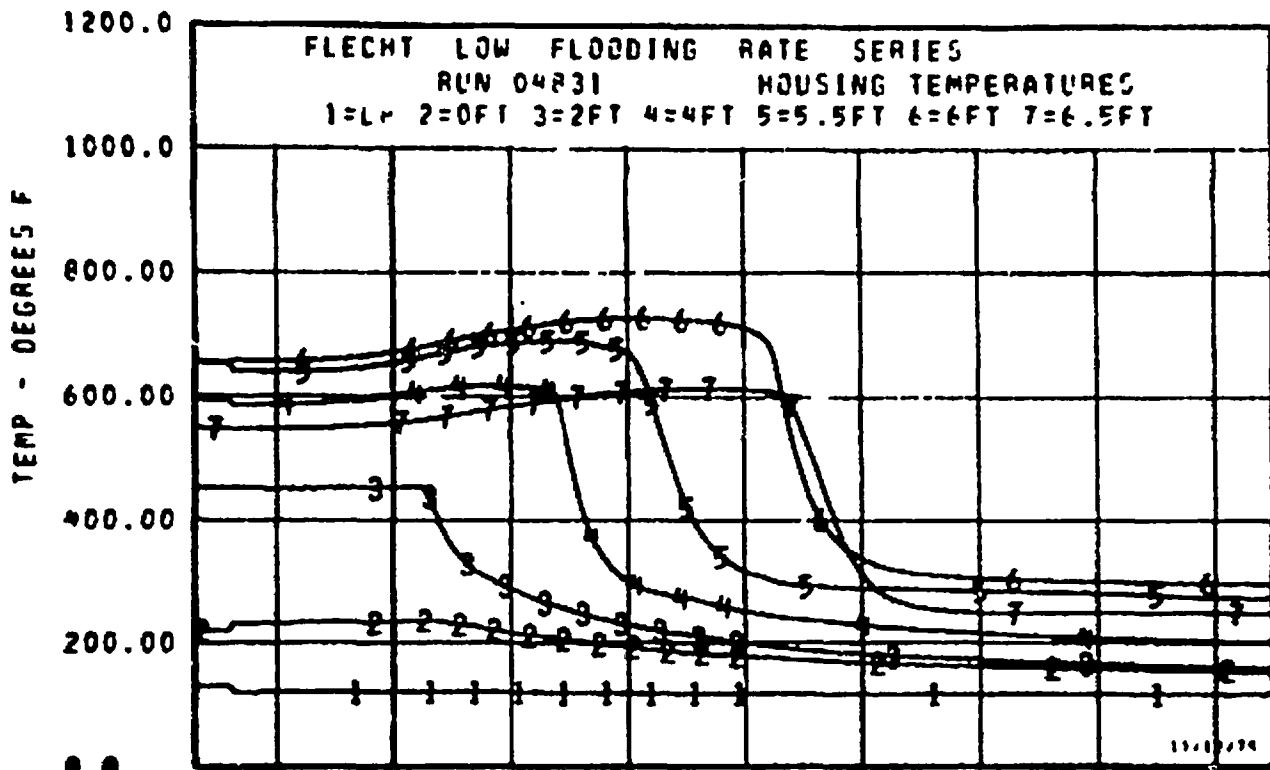


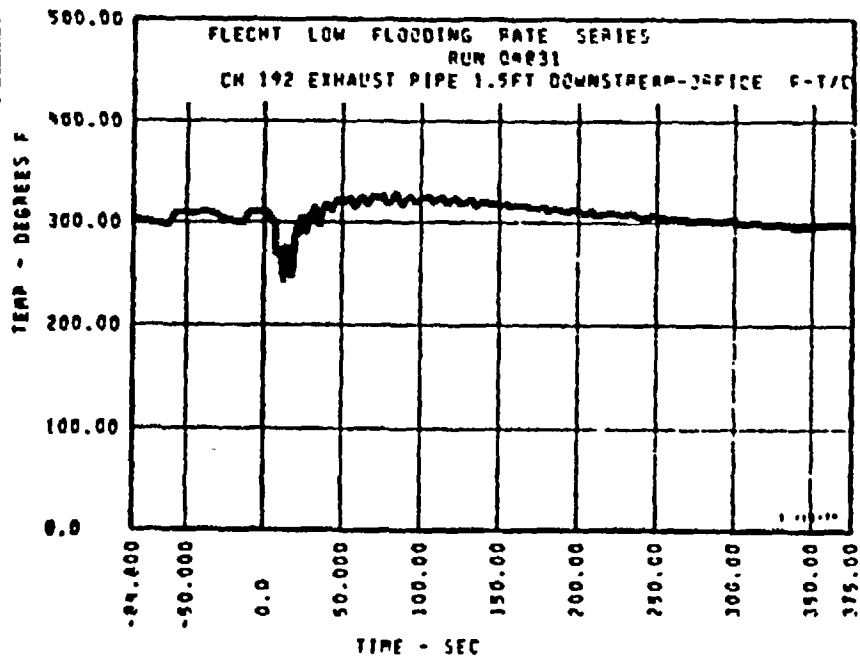
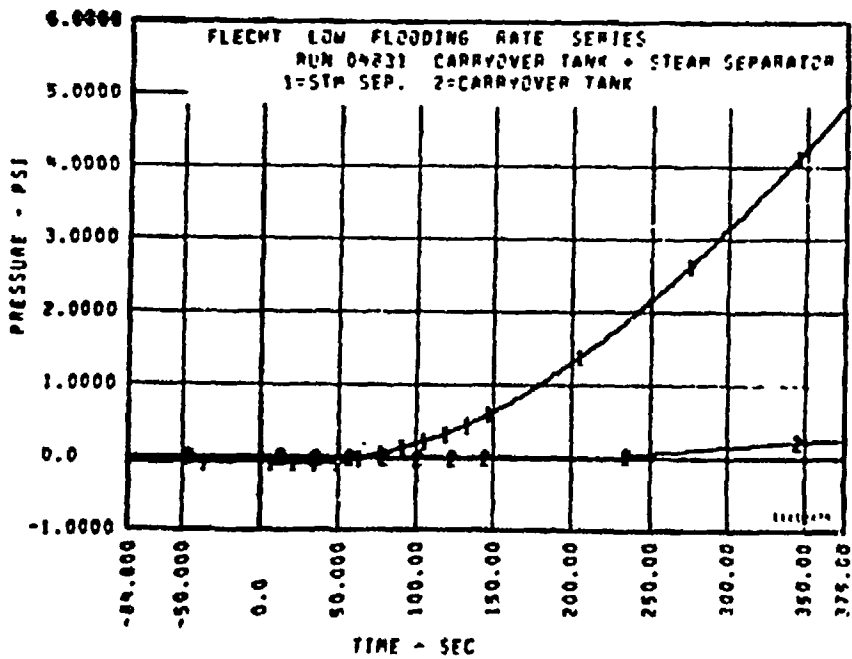
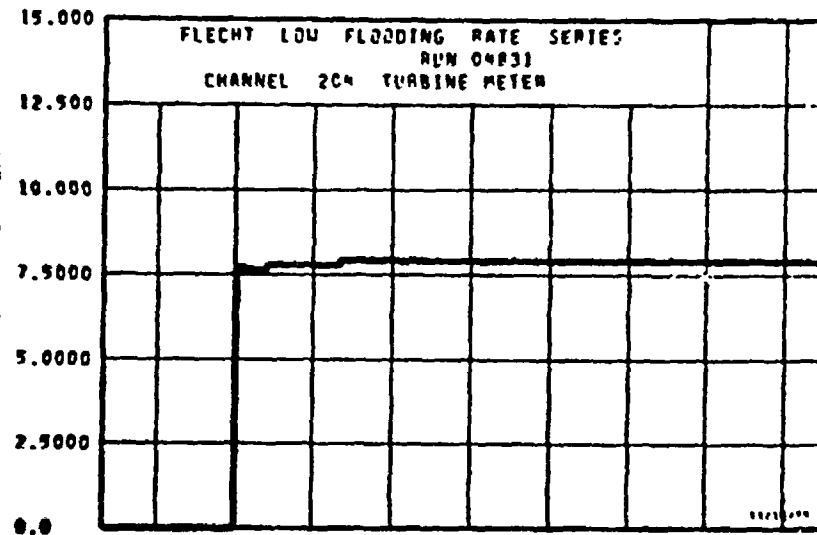
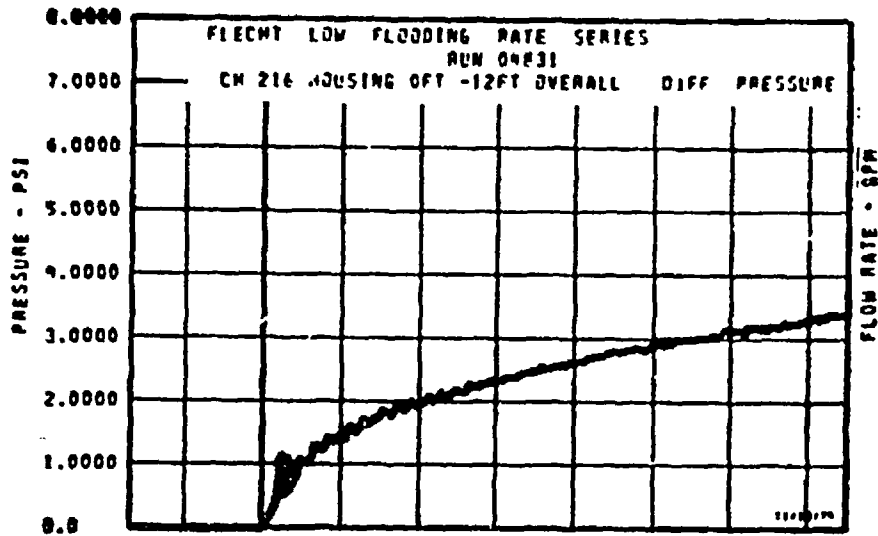




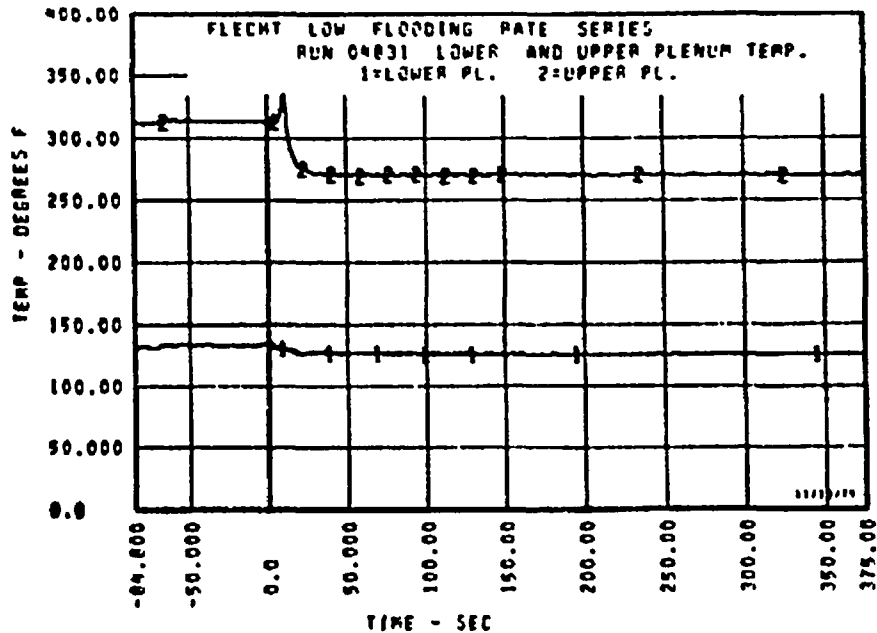
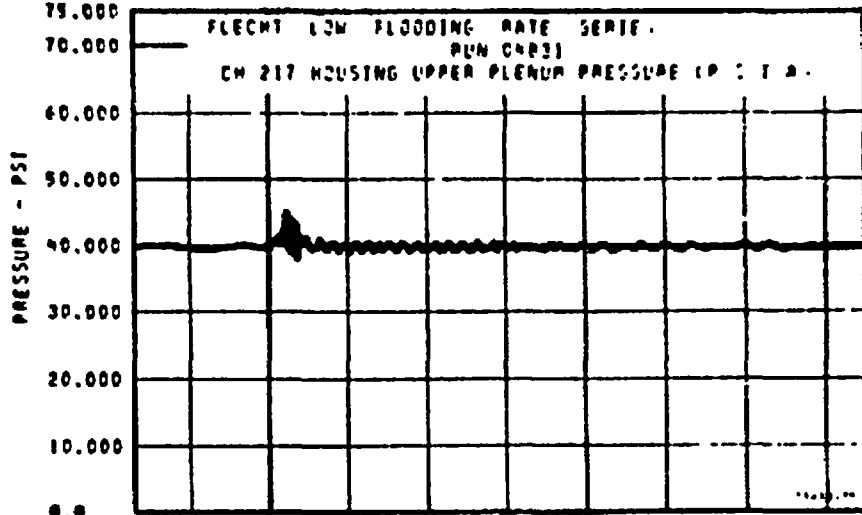
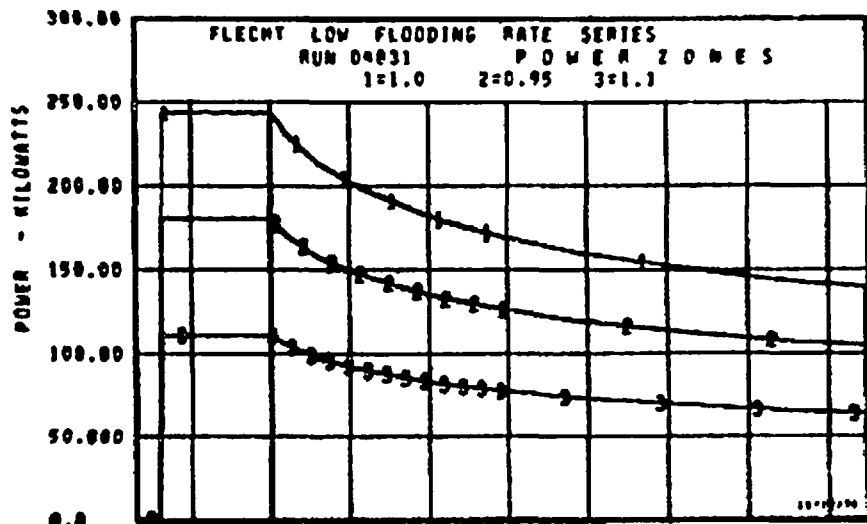


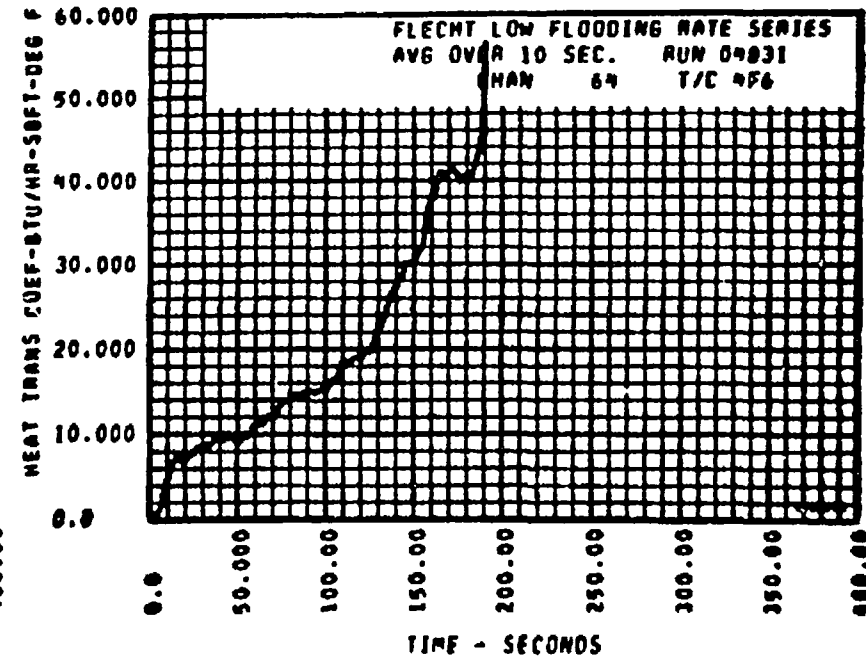
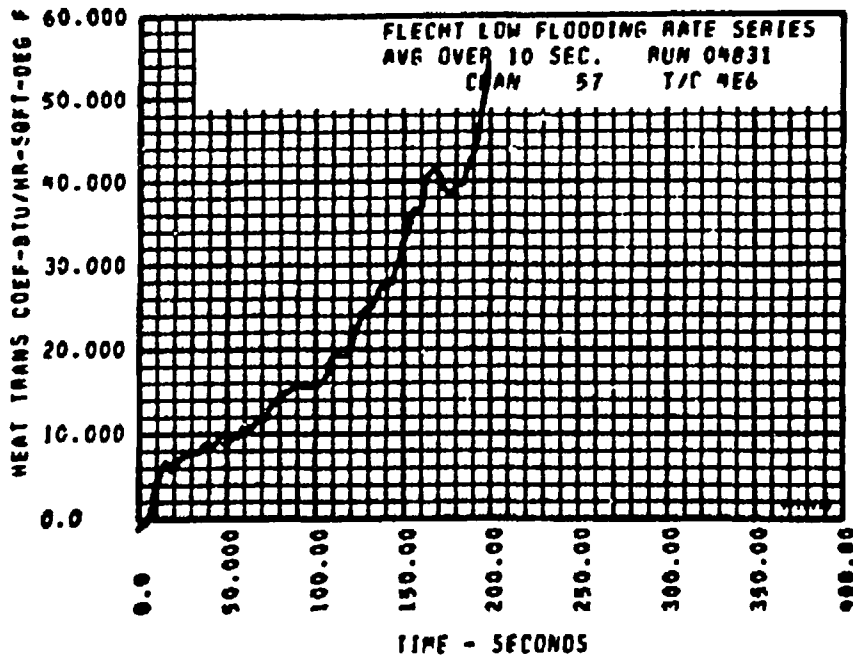
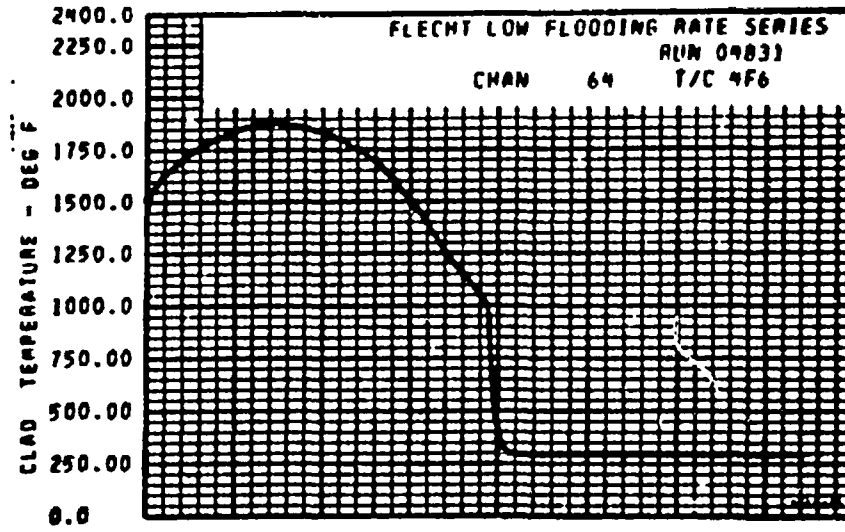
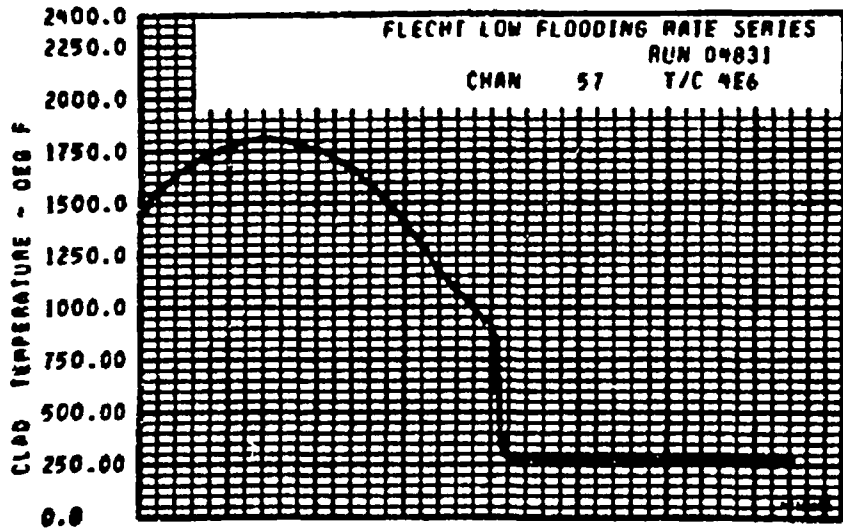






This report was prepared by the Health, Safety, and Environment Division of the Lawrence Livermore National Laboratory under contract number W-7400-ENG-48 with the U.S. Department of Energy.





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FLECHT - LOW FLOODING RATE TEST

SUMMARY SHEET

COSINE AXIAL POWER PROFILE

RUN NO. 04930

DATE: 5/12/75

A. RUN CONDITIONS

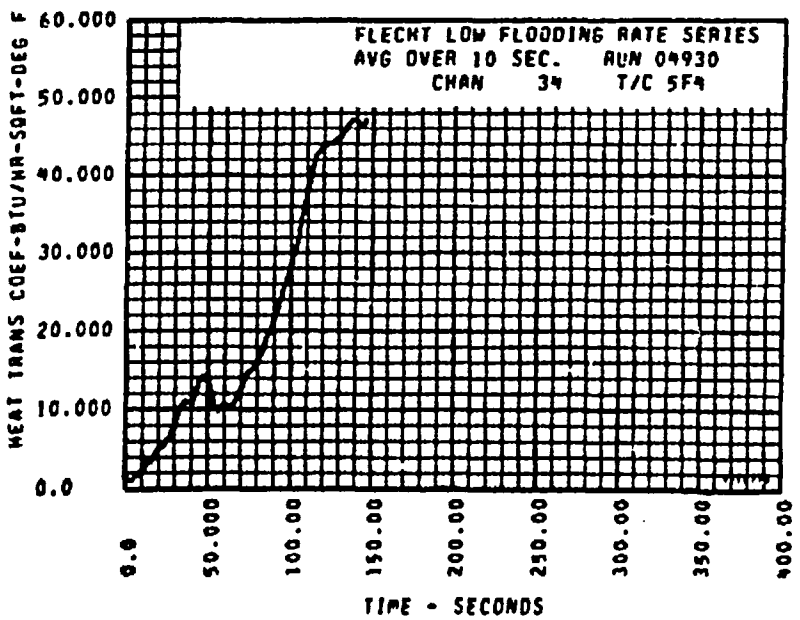
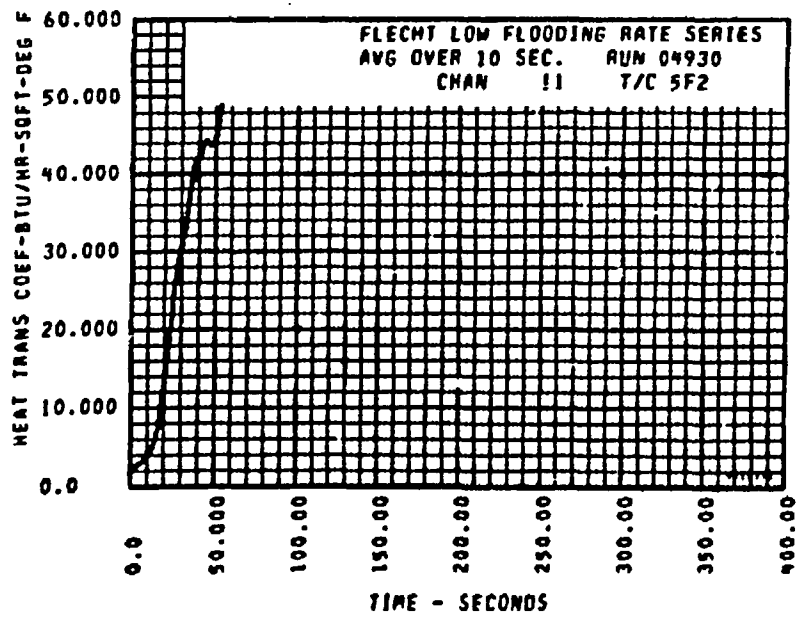
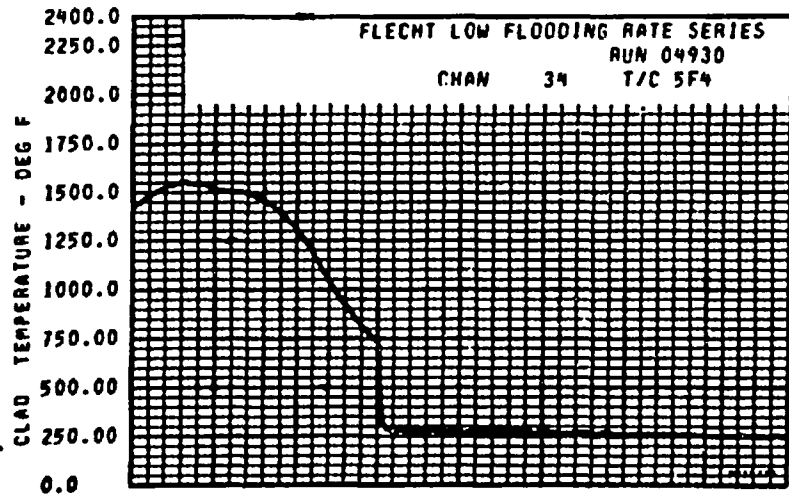
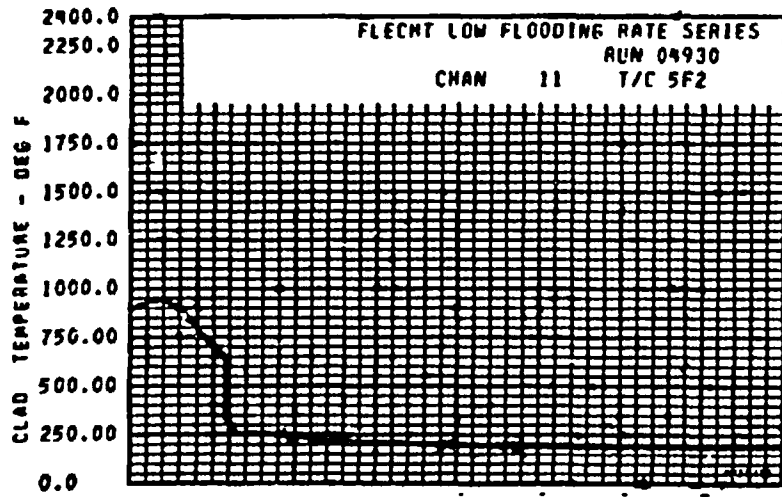
Upper Plenum Pressure, psia	<u>40</u>	
Initial Clad Temperature (6 Ft)°F At Flood	<u>1,601</u>	Rod T/C <u>3H6</u>
Rod Peak Power, kw/ft	<u>0.51</u>	
Flooding Rate, in/sec	<u>0.8</u>	
	<u>----</u>	
	<u>----</u>	
Coolant Temperature, °F	<u>129</u>	
Bundle Radial Power Profile	<u>FLECHT</u>	
Disconnected Rods	<u>7F</u>	

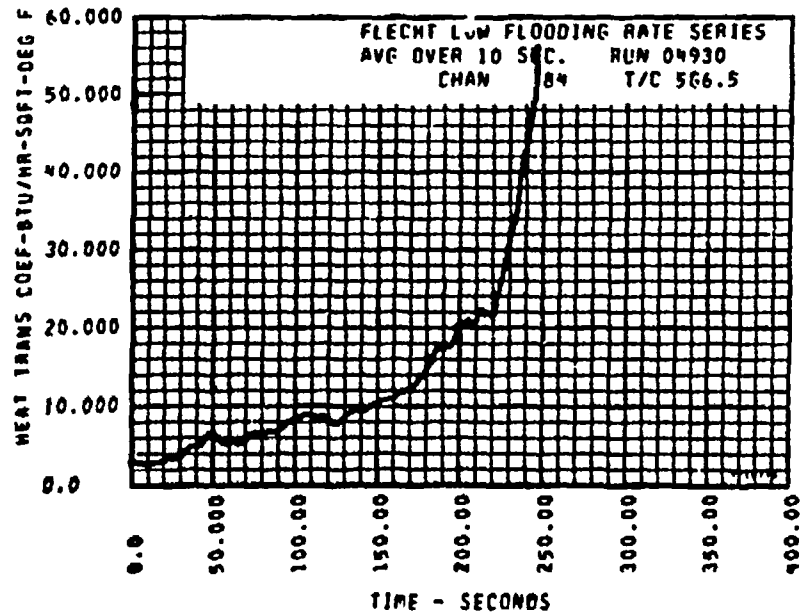
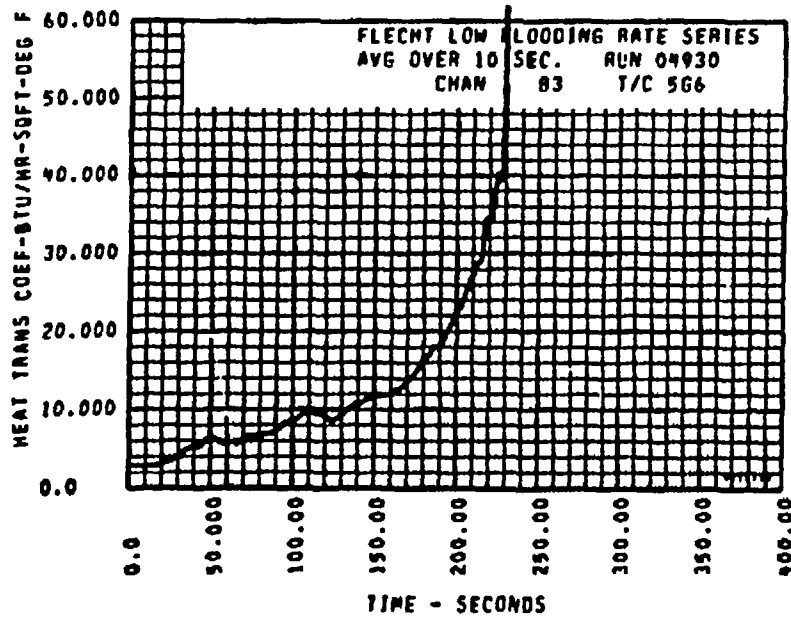
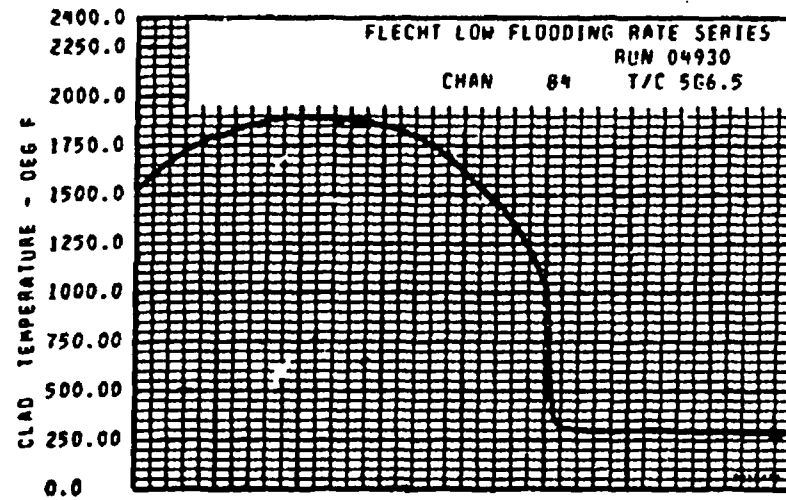
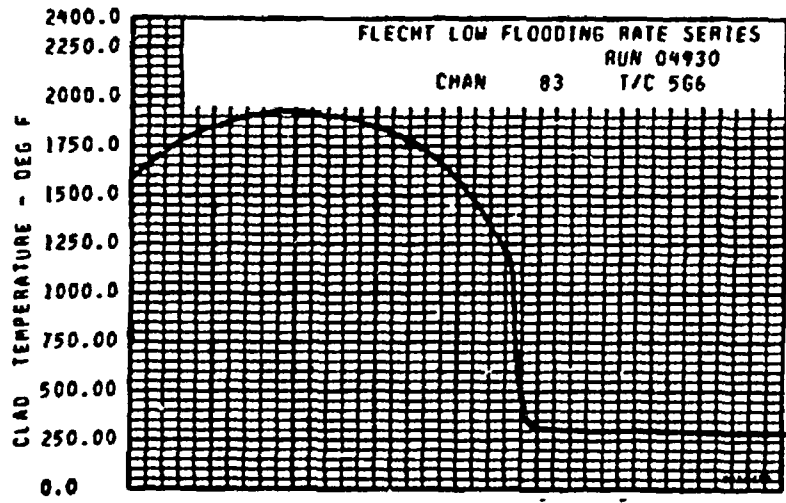
B. INITIAL HOUSING TEMPERATURE

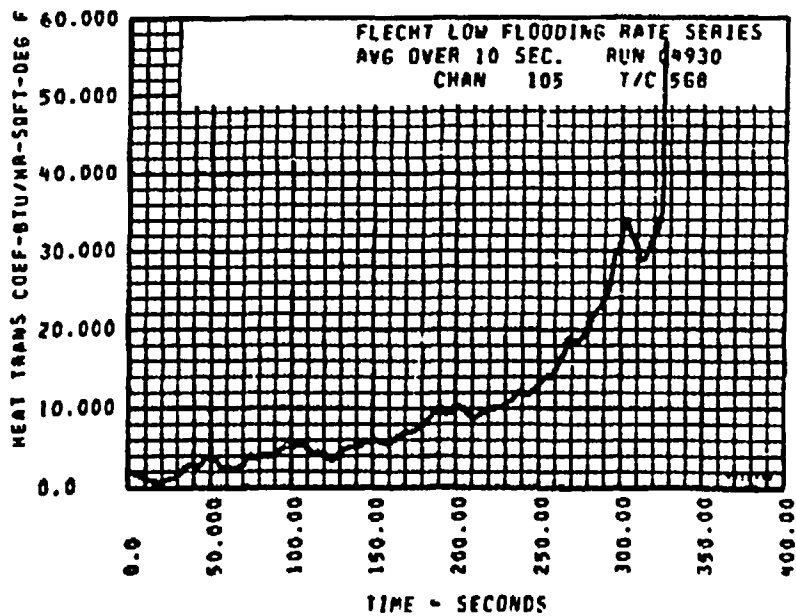
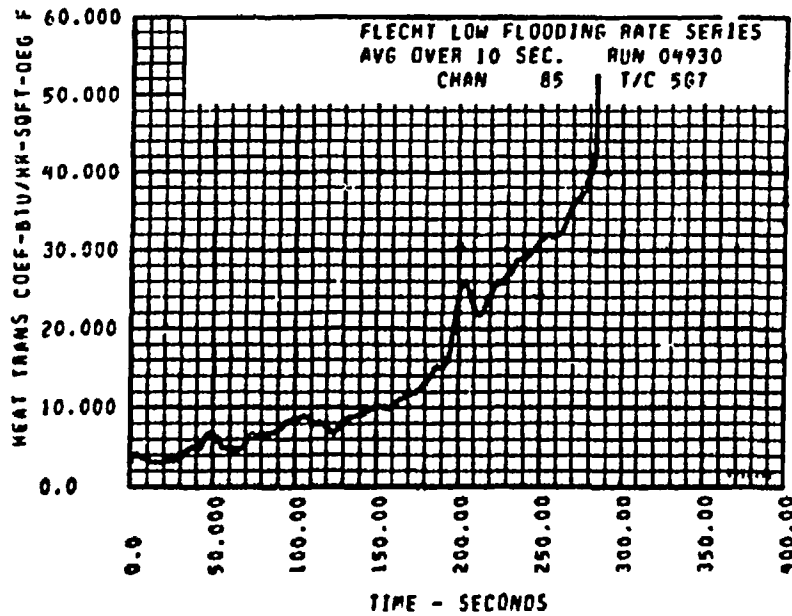
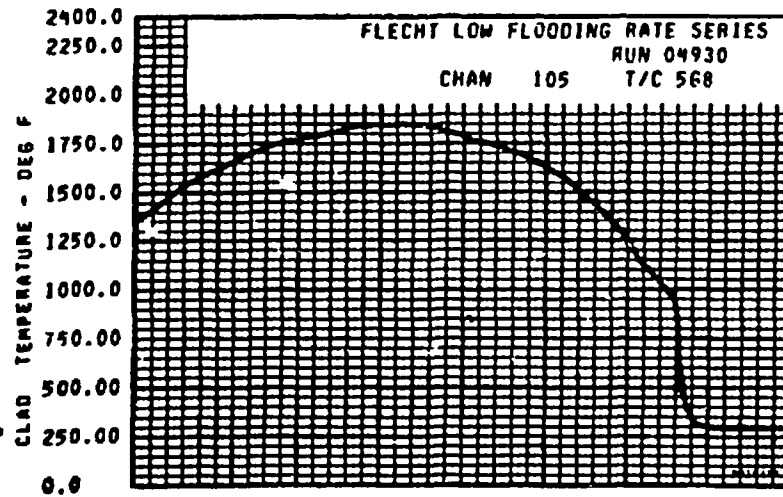
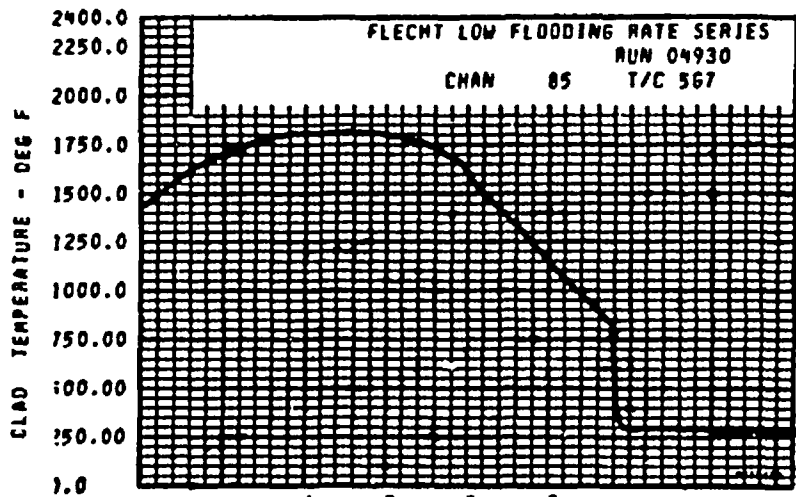
Back Side Elevation, Ft.	Temperature, °F
0	<u>245</u>
2	<u>451</u>
4	<u>617</u>
5.5	<u>673</u>
6	<u>694</u>
6.5	<u>572</u>
7	<u>570</u>
7.5	<u>574</u>
8	<u>595</u>
10	<u>442</u>
12	<u>276</u>
Average	<u>519</u>
Lower Plenum	<u>122</u>
Upper Plenum	<u>269</u>

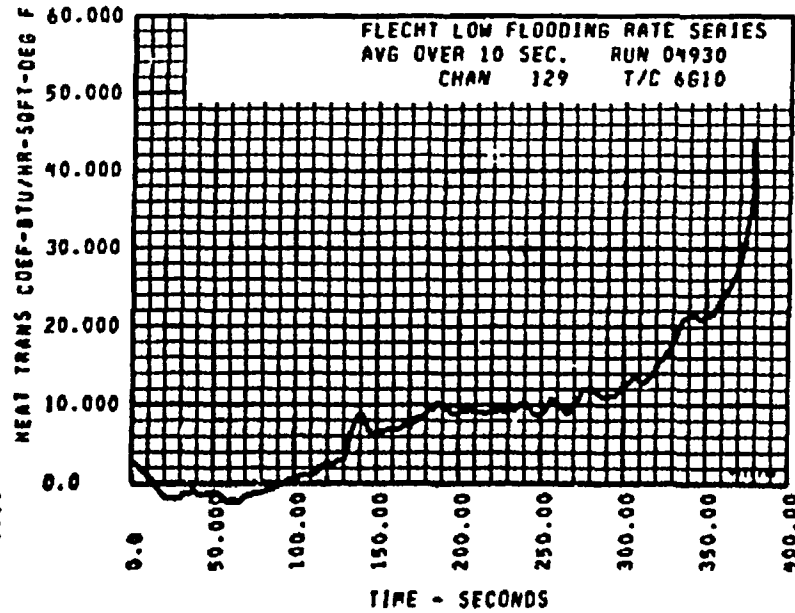
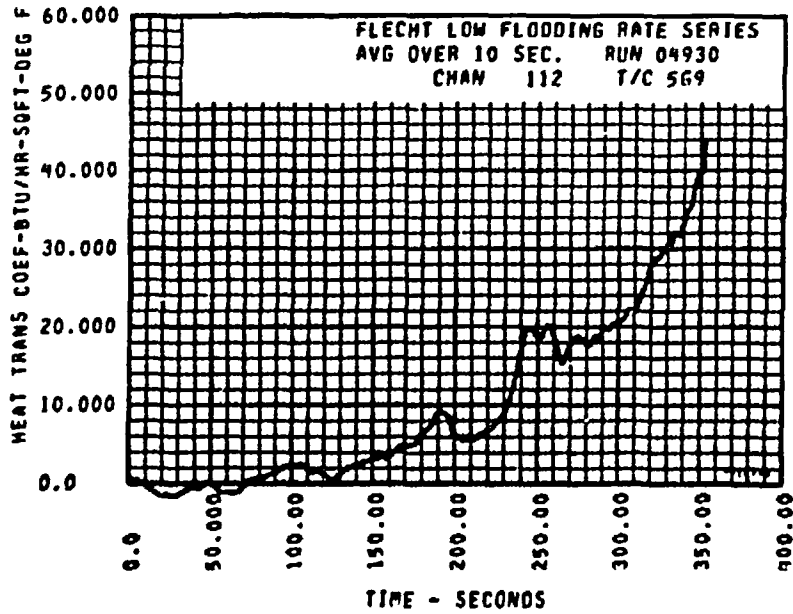
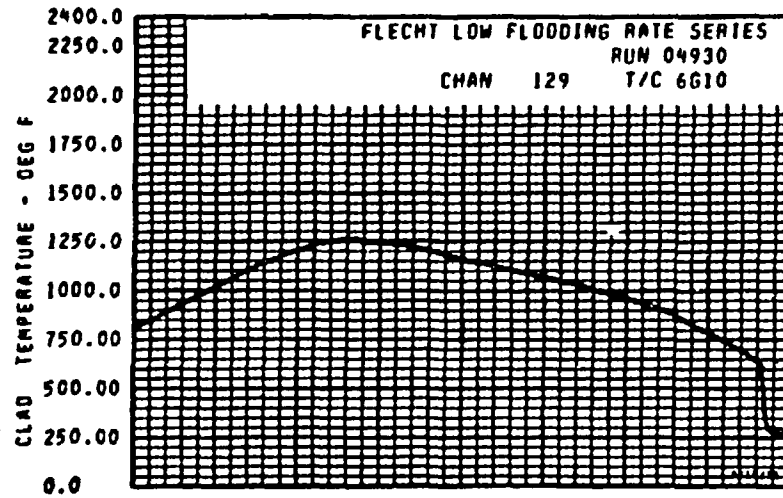
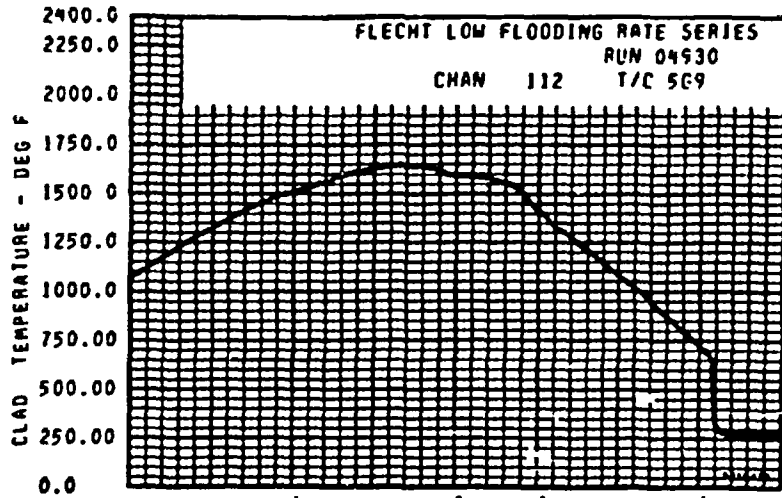
FLECHT-LOW FLOODING RATE ROD THERMOCOUPLE DATA

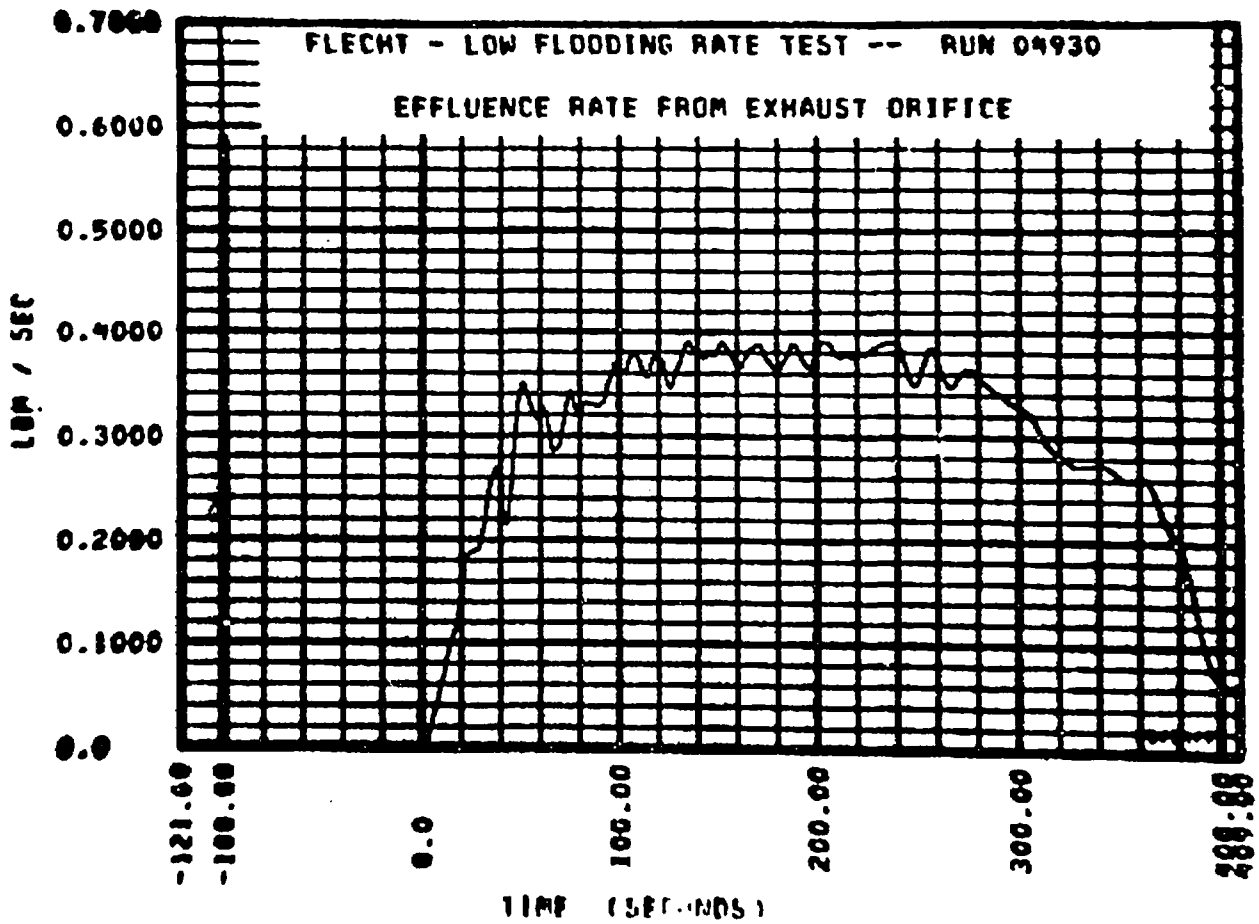
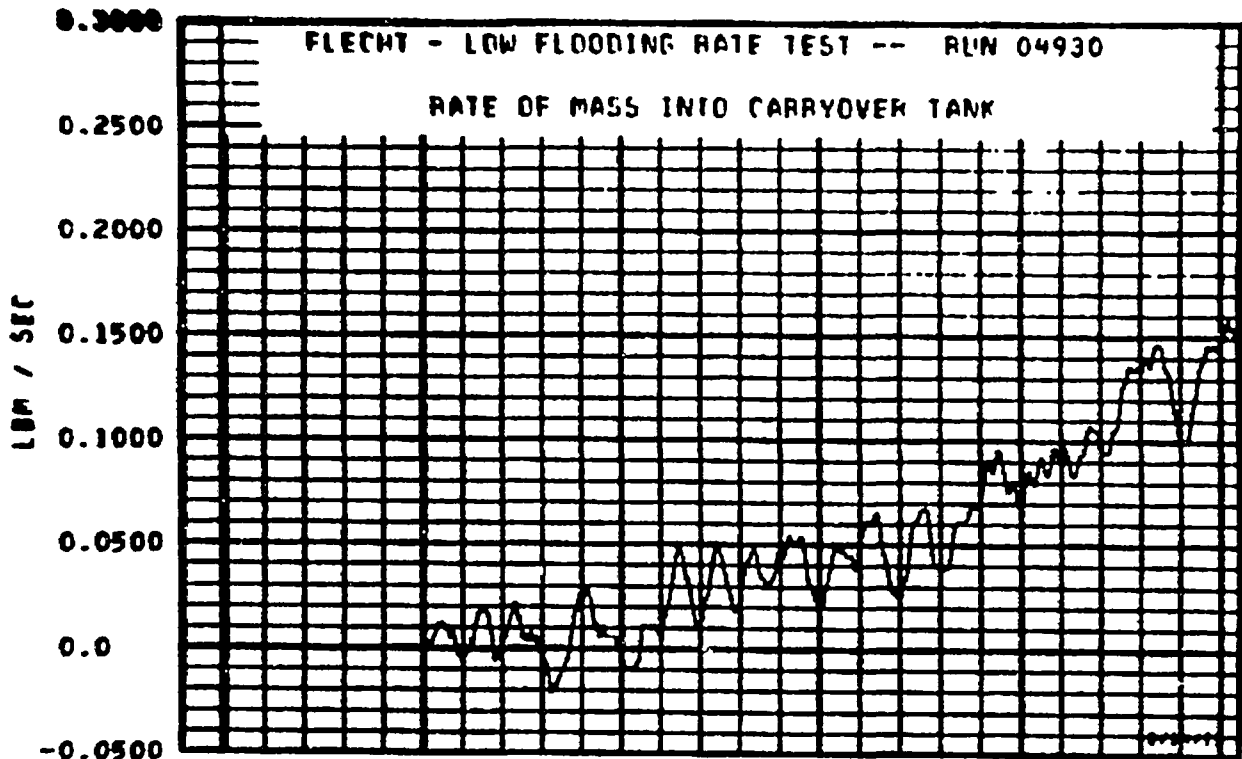
ROD/ELEV	TEMPERATURE AT POWER ON (DEG.F)	TIME OF POWER ON (SEC.)	INITIAL TEMPERATURE AT FLOOD (DEG.F)	RUN NUMBER MAXIMUM TEMPERATURE (DEG.F)	04930 TEMPERATURE RISE (DEG.F)	TURNAROUND TIME (SEC.)	QUENCH TEMPERATURE (DEG.F)	QUENCH TIME (SEC.)
4M0.5	27E.	-115.6	637.	656.	19.	7.4	563.	18.0
4M1	307.	-116.6	669.	696.	31.	13.1	580.	28.9
4M1.5	351.	-115.6	687.	721.	34.	14.1	606.	39.2
4M2	434.	-115.6	927.	978.	51.	21.6	692.	56.4
4M4	588.	-116.6	1418.	1552.	134.	42.0	776.	150.0
4M6	599.	-115.6	1600.	1990.	291.	92.0	858.	250.0
806	430.	-115.6	1494.	1912.	318.	92.3	656.	245.9
806.5	419.	-115.6	1409.	1790.	381.	102.4	660.	280.4
807	390.	-115.6	1356.	1679.	322.	103.4	723.	309.9
808	359.	-113.6	1196.	1721.	525.	149.6	68E.	346.0
809	281.	-115.6	990.	1508.	518.	162.0	694.	357.0
8010	275.	-115.6	777.	12E3.	466.	154.0	812.	322.6
8011	276.	-115.6	636.	95A.	323.	152.3	845.	257.9
8012	272.	-115.6	497.	671.	174.	87.6	659.	99.2
9F0	271.	-116.6	391.	392.	1.	1.4	393.	1.9
9F0.5	271.	-115.6	636.	653.	17.	6.9	567.	17.7
9F1	24E.	-115.6	654.	693.	29.	12.3	549.	29.2
9F1.5	409.	-115.6	1172.	1247.	75.	29.2	783.	96.7
9F2	409.	-115.6	1419.	1565.	145.	79.4	724.	151.0
9F3	377.	-115.6	1554.	1970.	316.	101.4	924.	241.0
9F4	31E.	-115.6	1554.	1970.	316.	101.4	924.	241.0
9G6	5EJ.	-116.6	1546.	1930.	384.	91.4	111E.	236.6
9G6.5	511.	-115.6	1574.	1994.	420.	91.4	1004.	251.7
9G7	452.	-115.6	1426.	1978.	552.	179.2	820.	249.0
9G8	437.	-115.6	1345.	1949.	604.	163.1	970.	210.6
9G9	417.	-115.6	1066.	1641.	575.	163.3	657.	257.9
9G11	275.	-115.6	670.	742.	311.	126.2	520.	375.9
9G12	274.	-115.6	544.	670.	246.	151.3	664.	399.0
1G4	333.	-115.6	1133.	1370.	237.	71.3	818.	122.0
1G6	41E.	-116.6	1534.	1937.	403.	45.6	85E.	236.2
1G10	31E.	-115.6	744.	974.	230.	101.6	64E.	349.0
3M2	414.	-115.6	128.	372.	44.	15.2	671.	52.7
3M6	410.	-116.6	1071.	1477.	265.	73.3	667.	246.0
3M8	444.	-115.6	1367.	1780.	413.	126.6	672.	229.3
3M10	477.	-115.6	910.	1459.	449.	150.3	1080.	254.7

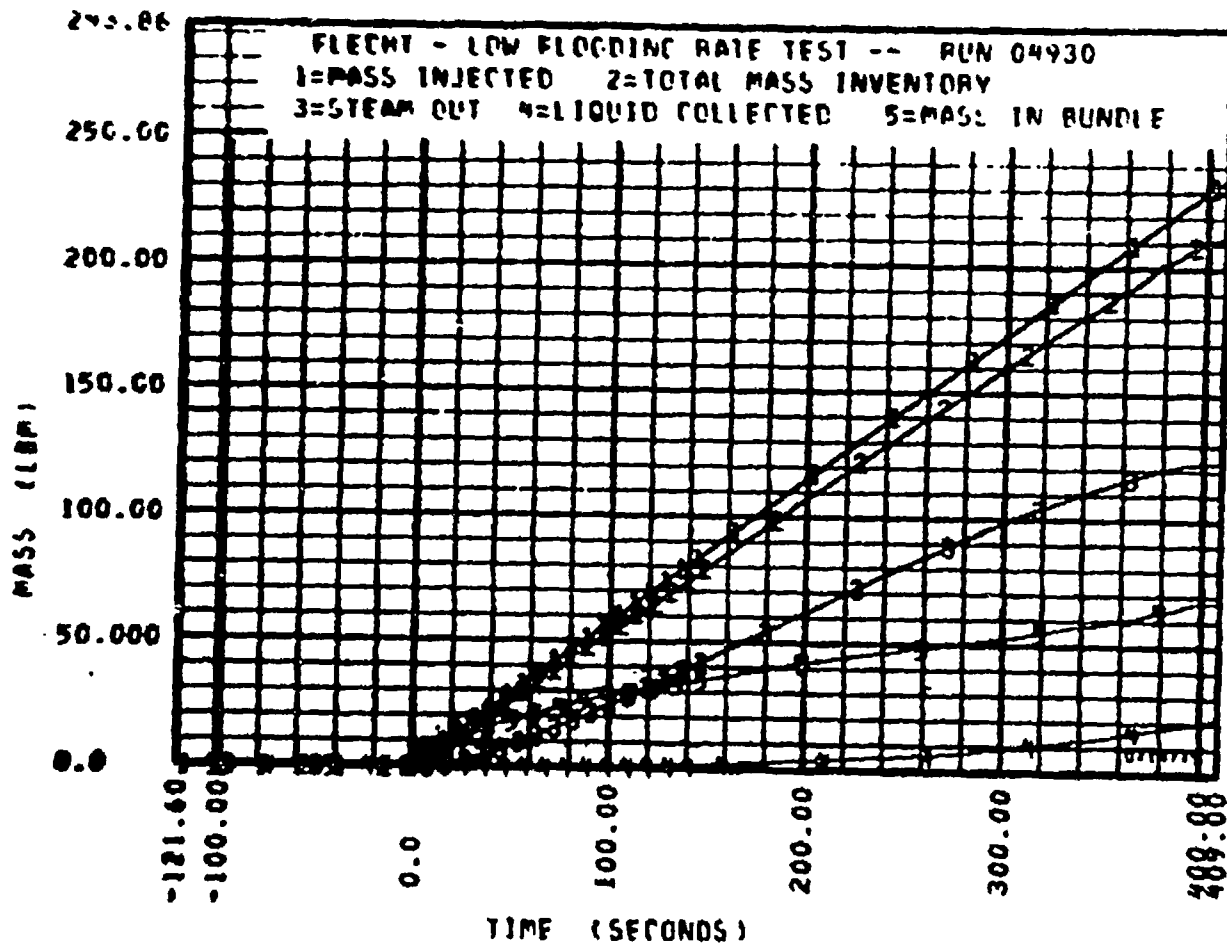


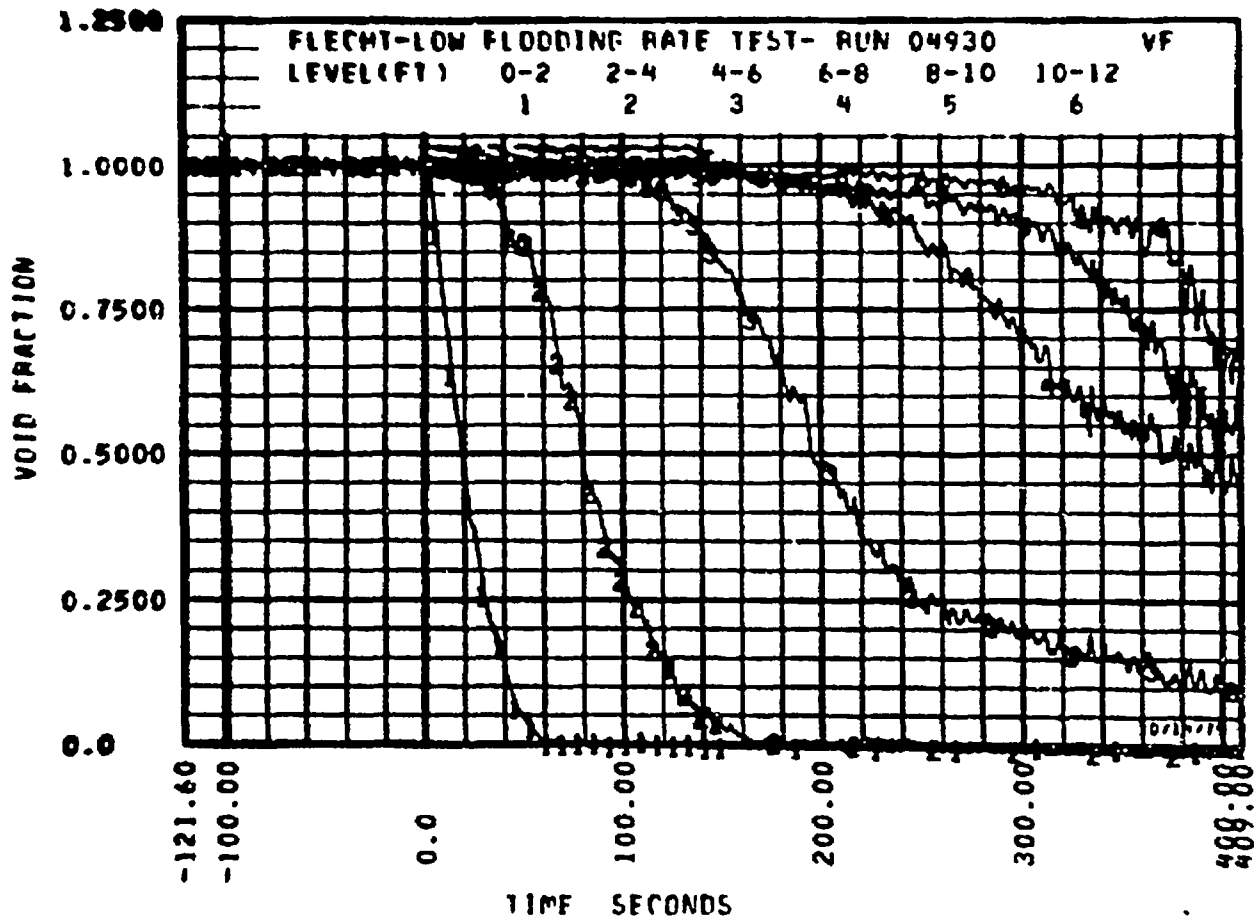
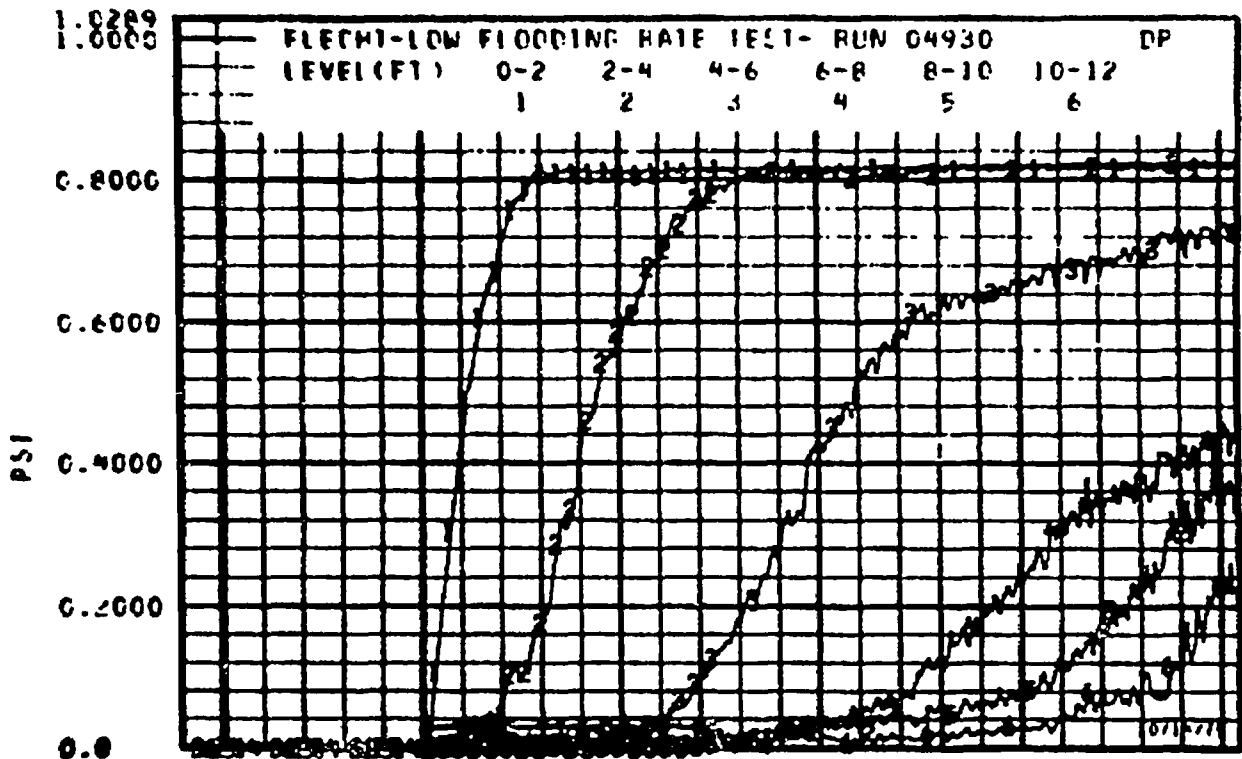


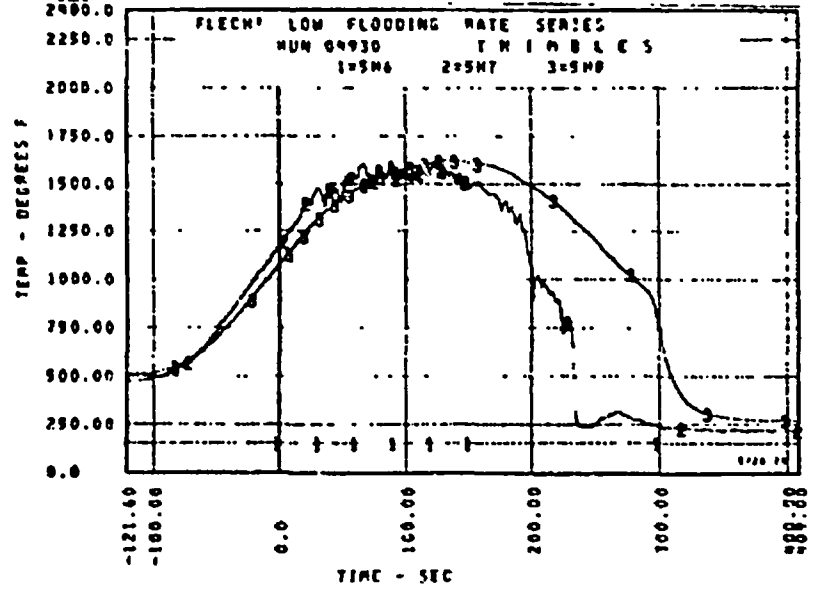
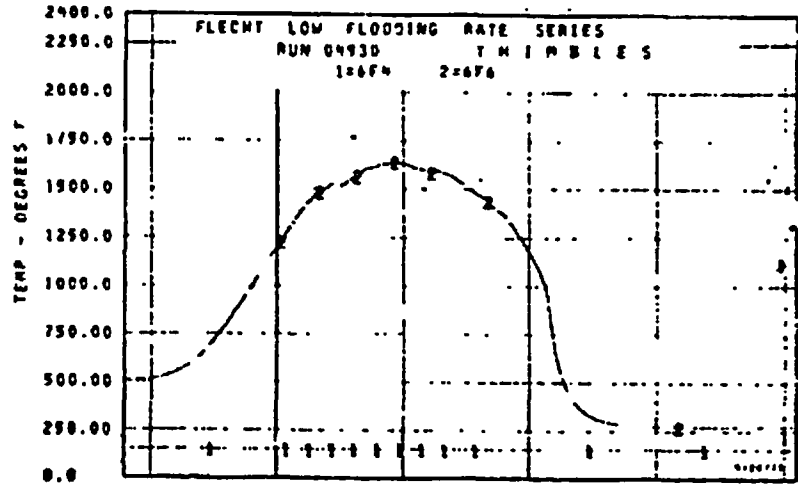
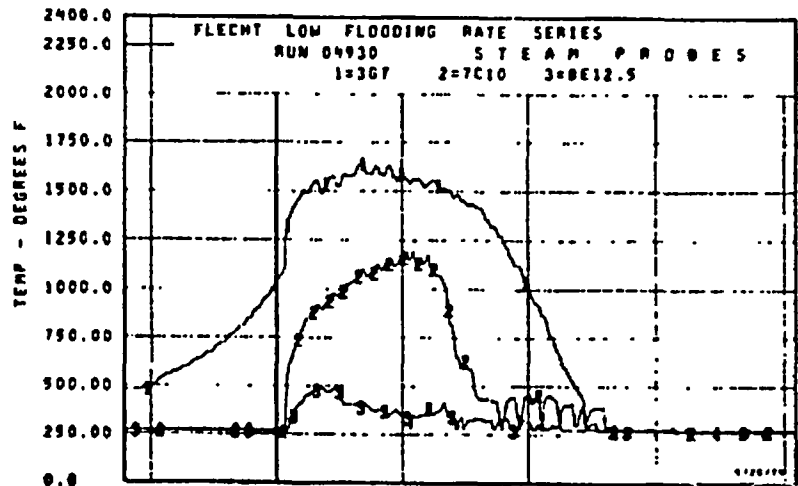


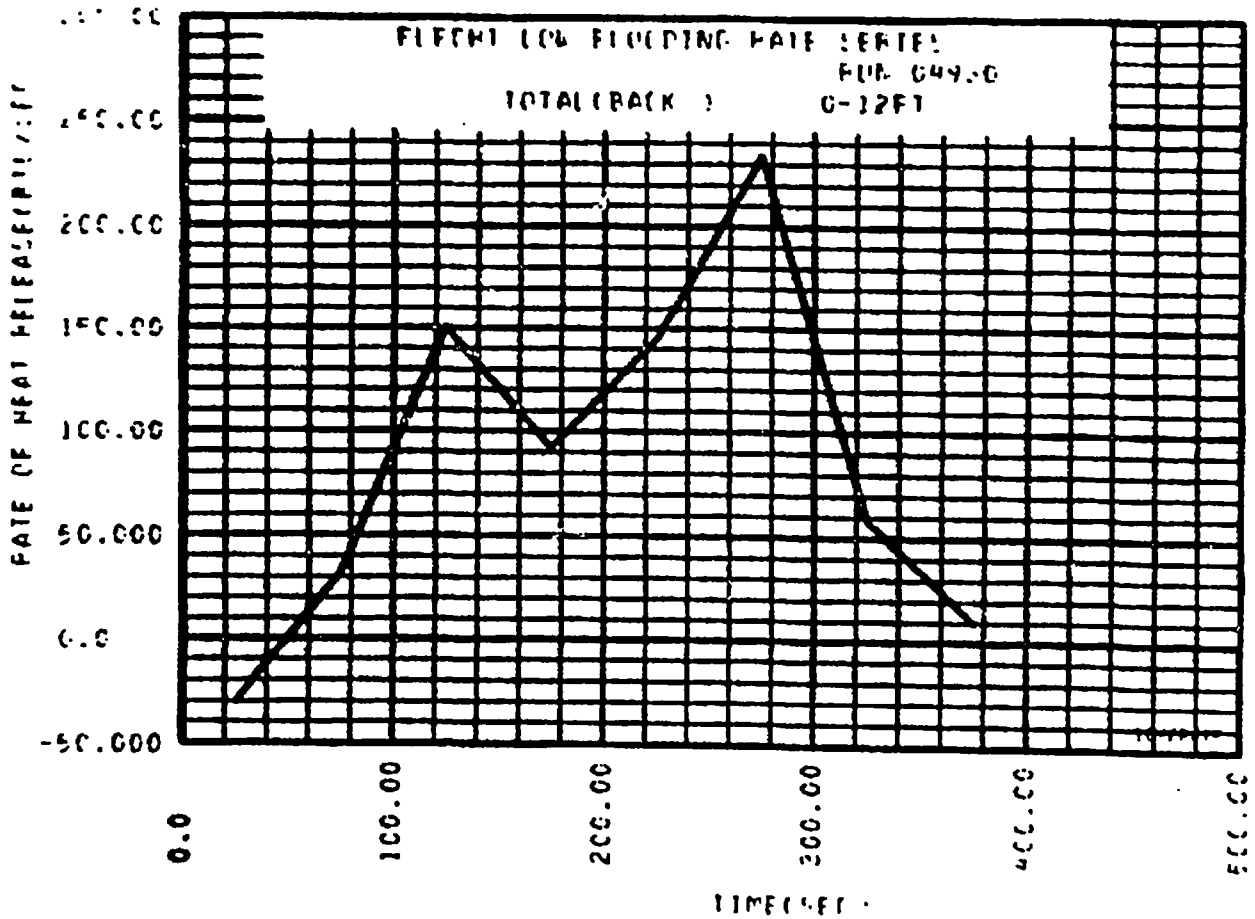
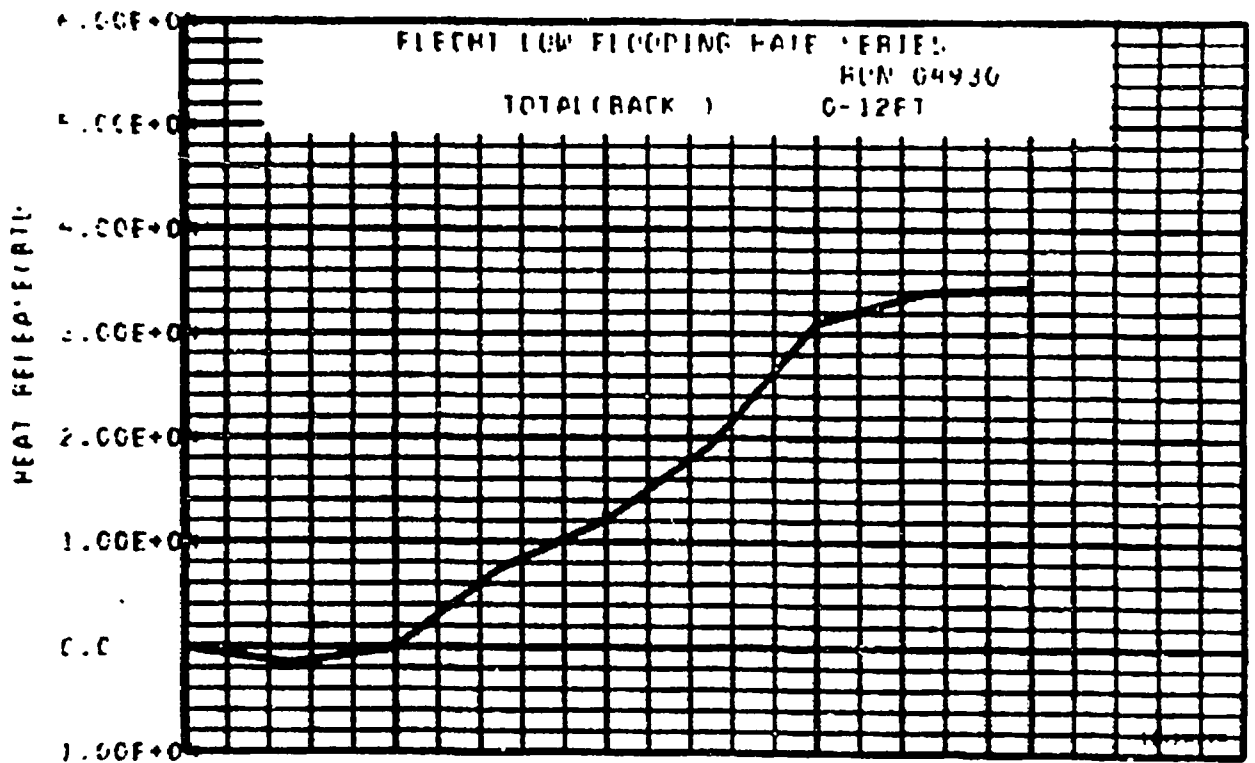












FLECHT - LOW FLOODING RATE TEST

SUMMARY SHEET

COSINE AXIAL POWER PROFILE

RUN NO. 05029

DATE: 5/13/75

A. RUN CONDITIONS

Upper Plenum Pressure, psia	<u>40</u>	
Initial Clad Temperature (6 Ft) ^{°F} At Flood	<u>1,600</u>	Rod T/C <u>4H6</u>
Rod Peak Power, kw/ft	<u>0.73</u>	
Flooding Rate, in/sec	<u>0.85</u>	
	<u>----</u>	
	<u>----</u>	
Coolant Temperature, ^{°F}	<u>126</u>	
Bundle Radial Power Profile	<u>FLECHT</u>	
Disconnected Rods	<u>7F</u>	

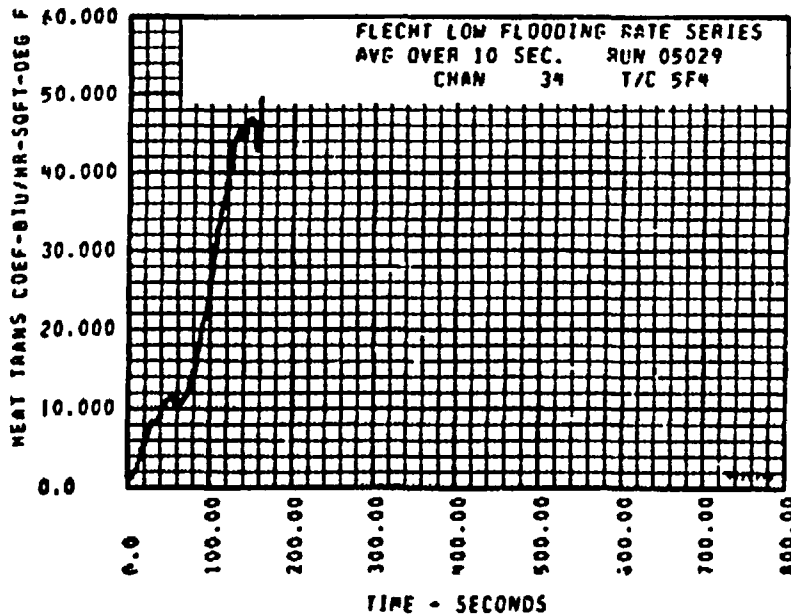
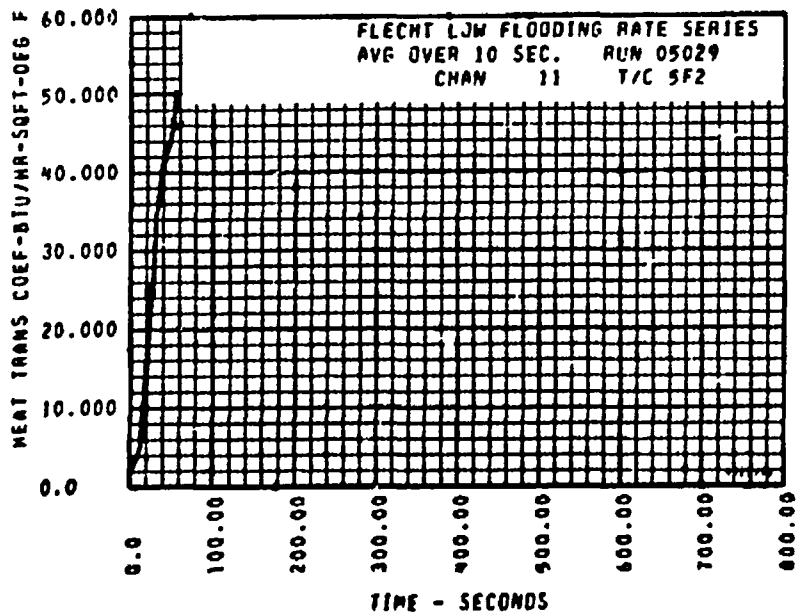
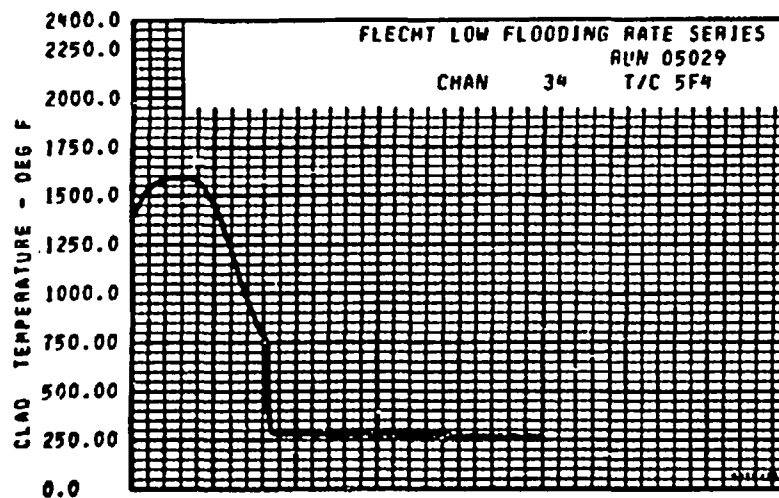
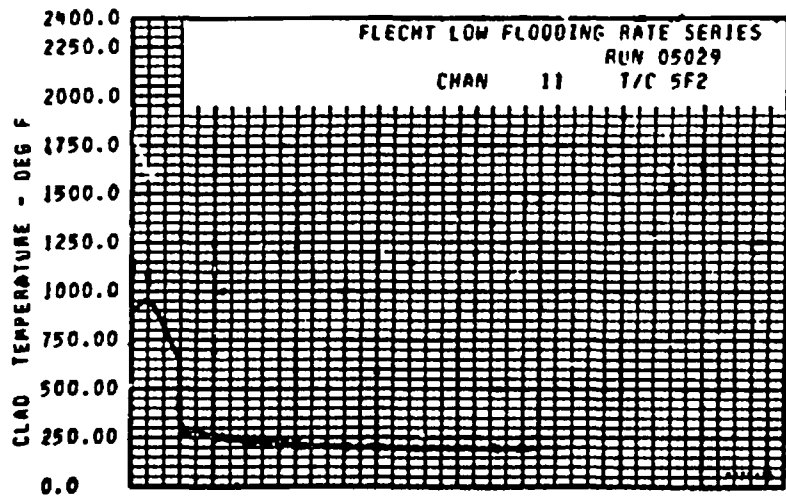
B. INITIAL HOUSING TEMPERATURE

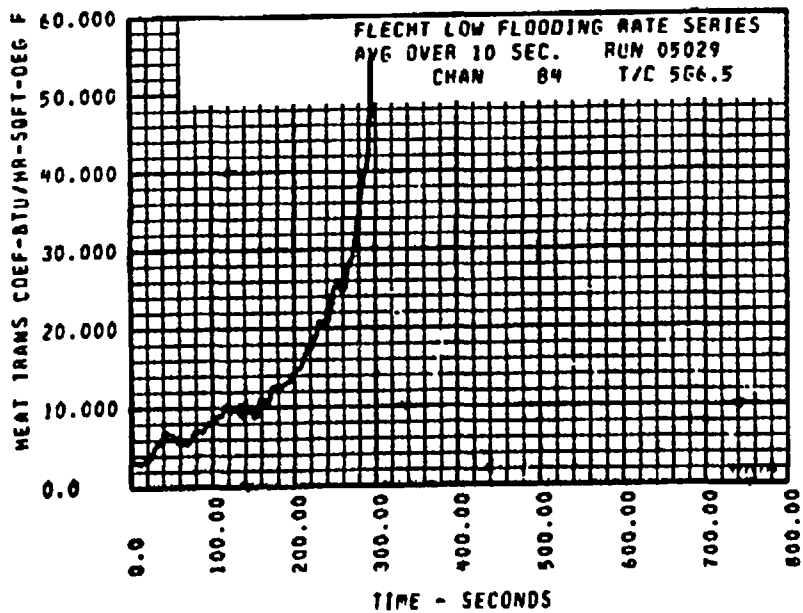
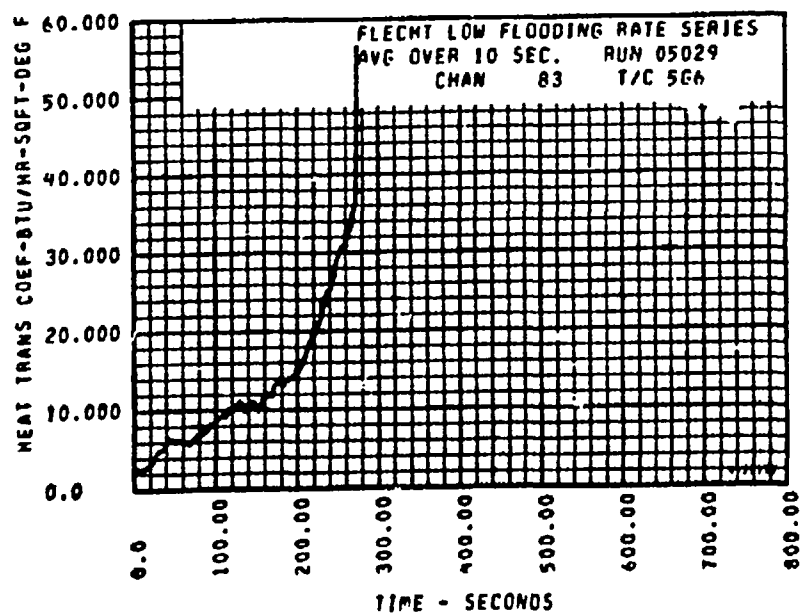
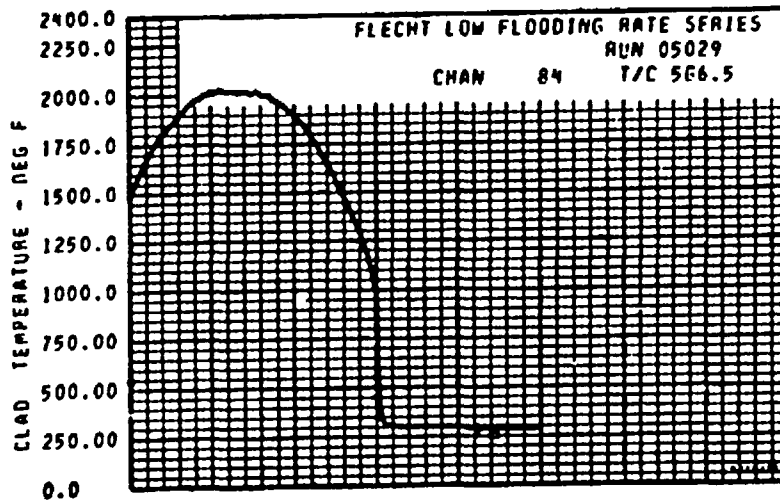
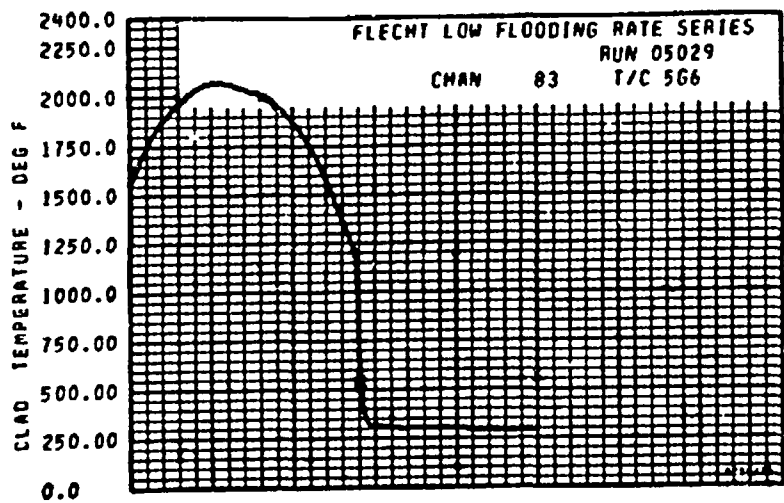
Back Side Elevation, Ft.	Temperature, ^{°F}
0	<u>246</u>
2	<u>487</u>
4	<u>641</u>
5.5	<u>748</u>
6	<u>770</u>
6.5	<u>614</u>
7	<u>609</u>
7.5	<u>611</u>
8	<u>649</u>
10	<u>488</u>
12	<u>276</u>
Average	<u>558</u>
Lower Plenum	<u>125</u>
Upper Plenum	<u>269</u>

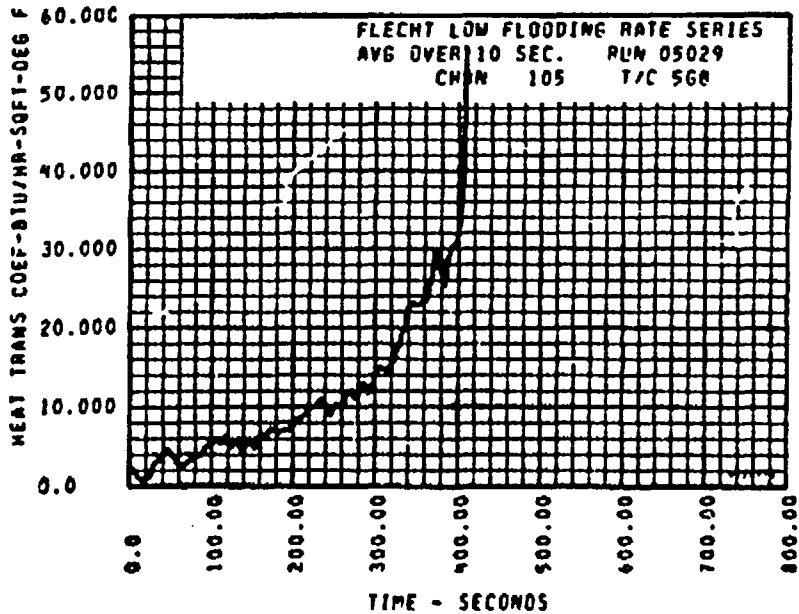
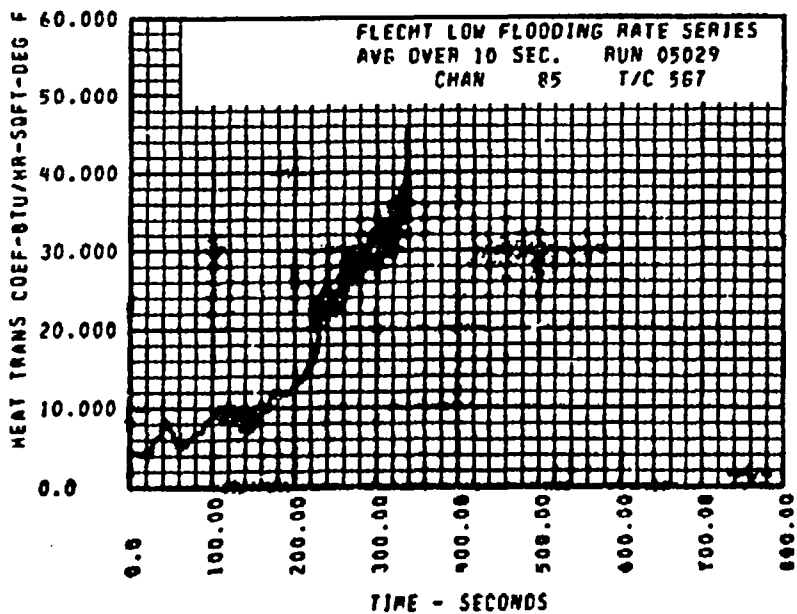
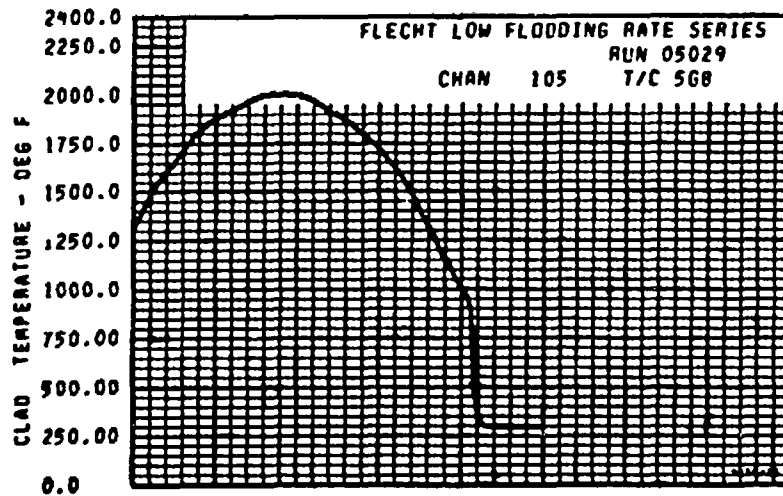
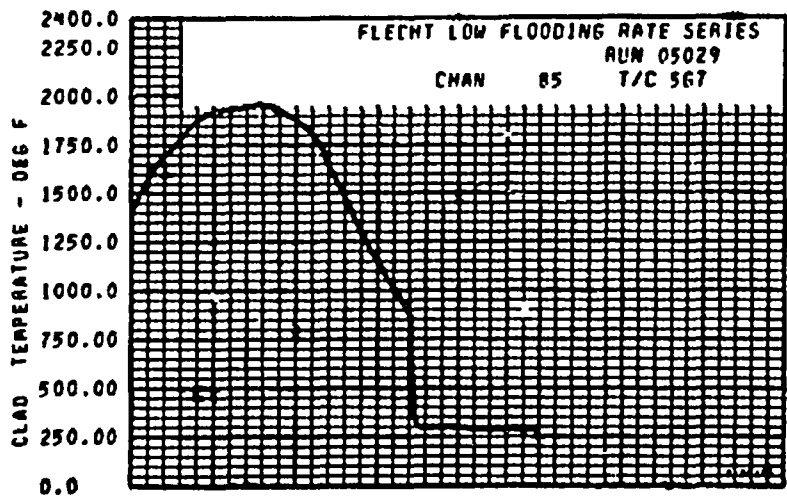
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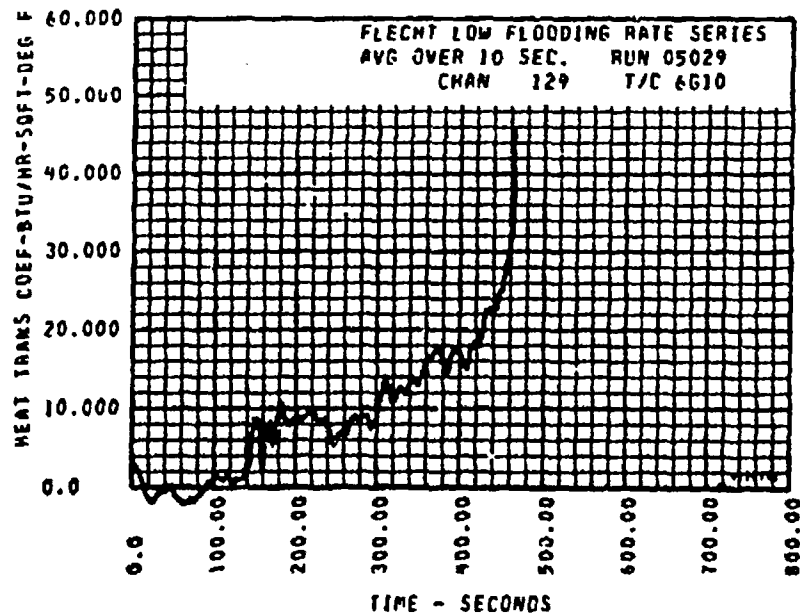
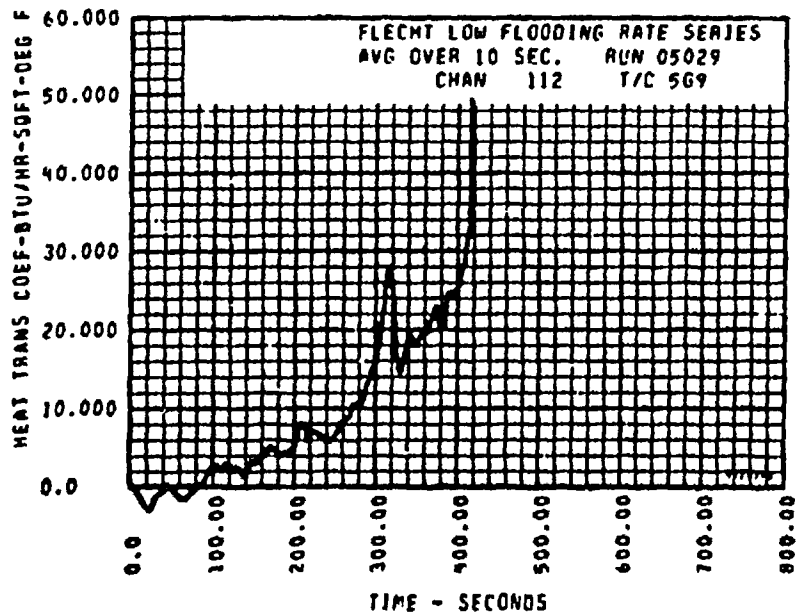
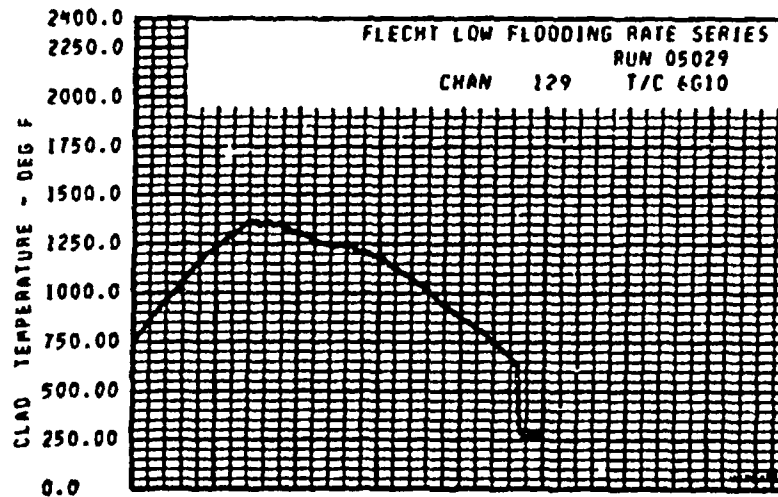
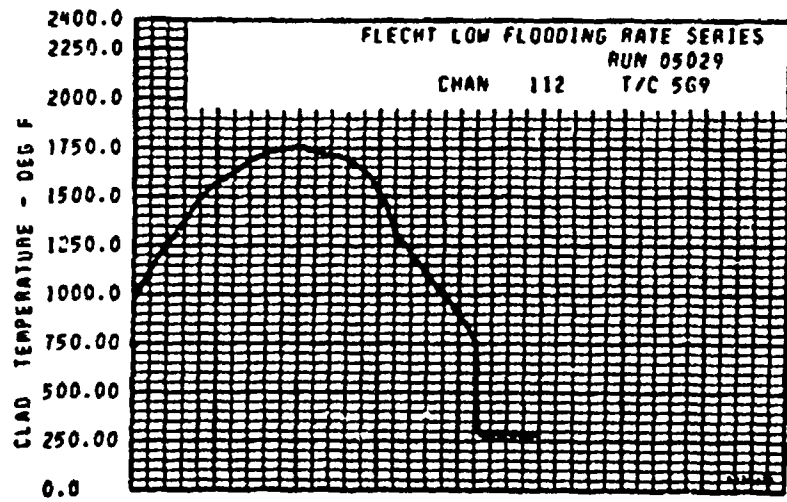
FLECHT-LOW FLOODING RATE ROD THERMOCOUPLE DATA

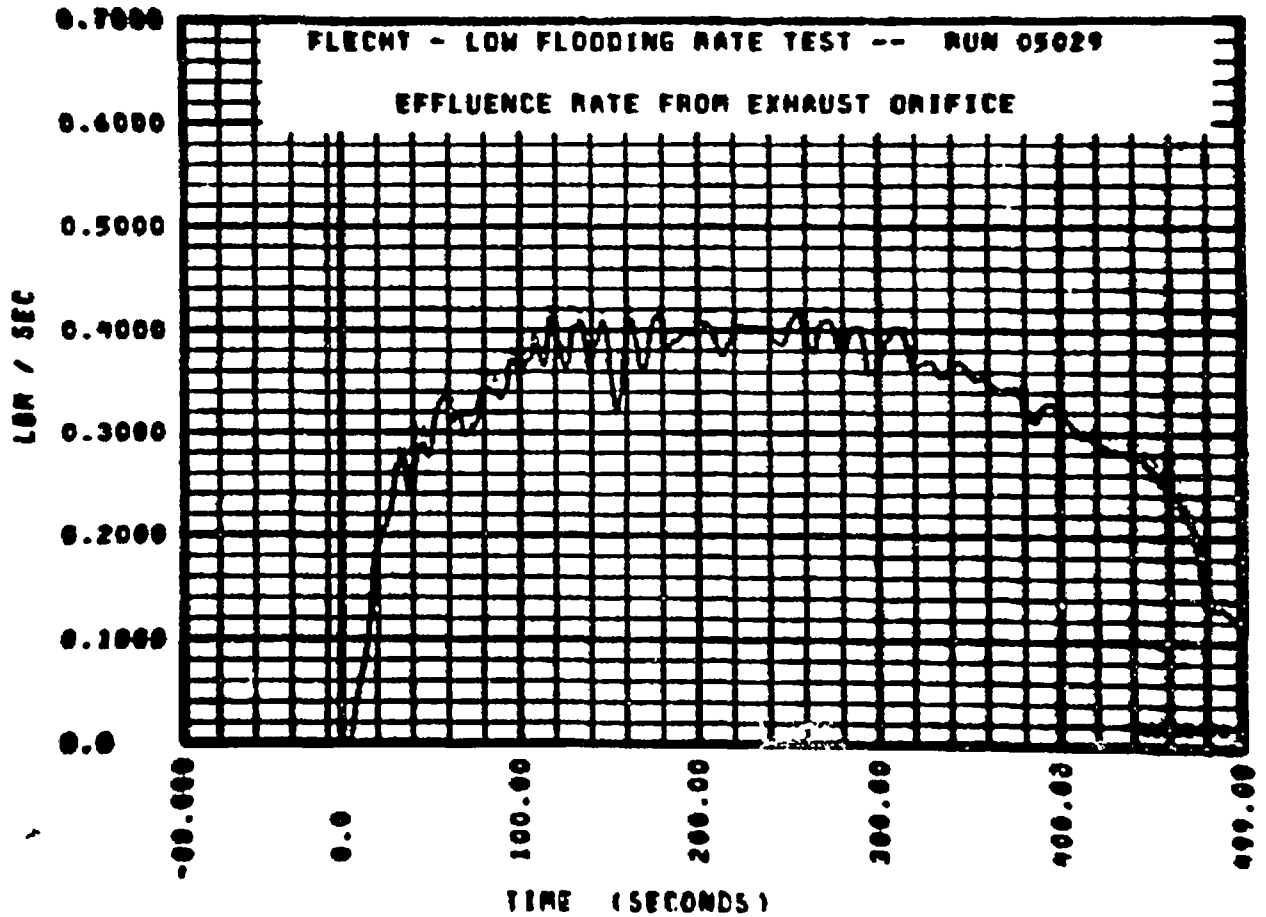
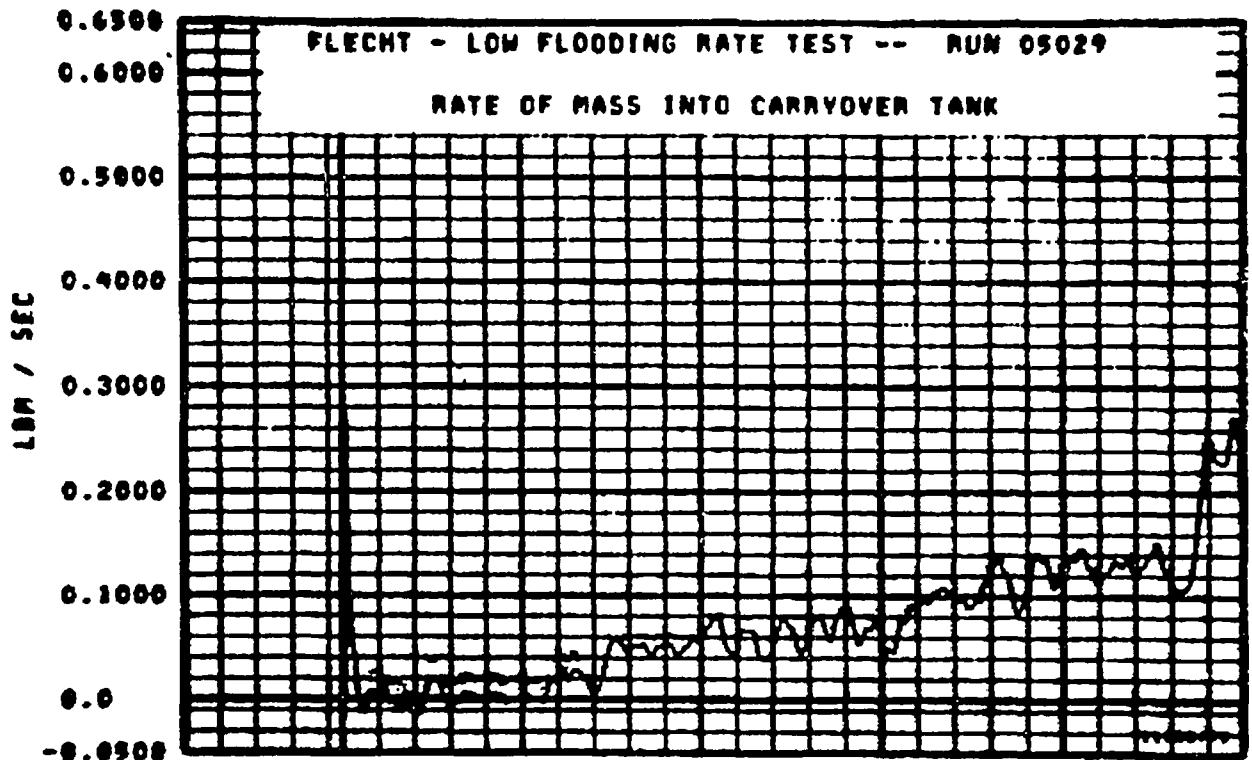
ROD/ELEV	TEMPERATURE AT POWER ON (DEG.F)	TIME OF POWER ON (SEC.)	INITIAL TEMPERATURE AT FLOOD (DEG.F)	RUN NUMBER MAXIMUM TEMPERATURE (DEG.F)	05029 TEMPERATURE RISE (DEG.F)	TURNAROUND TIME (SEC.)	QUENCH TEMPERATURE (DEG.F)	QUENCH TIME (SEC.)
4M0.5	232.	-83.0	616.	643.	26.	7.1	563.	17.5
4M1	227.	-84.0	657.	693.	36.	11.4	579.	30.5
4M1.5	192.	-83.0	687.	733.	46.	15.4	605.	39.9
4M2	251.	-84.0	917.	984.	67.	17.6	712.	57.4
4M4	324.	-84.0	1400.	1507.	207.	59.8	803.	163.9
4M6	336.	-84.0	1600.	2024.	423.	101.4	917.	291.9
8D6	419.	-83.0	1444.	1558.	470.	131.4	914.	283.9
8D6.5	414.	-83.0	1400.	1955.	554.	172.9	907.	310.1
8D7	465.	-83.0	1359.	1824.	464.	112.5	750.	367.9
8D8	314.	-83.0	1174.	1890.	716.	168.3	744.	419.0
8D9	376.	-84.0	946.	1651.	704.	172.3	764.	453.0
8D10	376.	-83.0	746.	1430.	684.	193.0	718.	435.0
8D11	273.	-83.0	606.	1127.	521.	169.3	775.	393.0
8D12	273.	-83.0	484.	823.	339.	102.6	716.	137.8
9F0	222.	-84.0	405.	407.	2.	.9	404.	1.6
9F0.5	273.	-84.0	612.	635.	23.	7.2	624.	19.9
9F1	315.	-84.0	643.	677.	35.	11.6	531.	32.5
9F1.5	*	* B A D T H E R M O C O U P L E .						
9F2	437.	-84.0	839.	952.	63.	17.4	645.	59.6
9F3	325.	-84.0	1140.	1257.	117.	37.2	702.	103.2
9F4	414.	-84.0	1391.	1599.	207.	48.4	747.	165.9
9F6	325.	-84.0	1537.	2018.	481.	101.4	984.	279.2
9G6	574.	-83.0	1556.	2075.	519.	102.2	1156.	278.8
9G6.5	549.	-83.0	1489.	2030.	540.	112.4	987.	300.7
9G7	497.	-84.0	1403.	1961.	558.	156.0	862.	342.8
9G8	529.	-83.0	1310.	2004.	694.	168.0	865.	412.8
9G9	316.	-84.0	971.	1756.	786.	198.0	755.	421.6
9G11	270.	-84.0	604.	485.	382.	157.0	528.	453.0
9G12	272.	-83.0	571.	921.	351.	169.0	541.	475.0
1G4	629.	-83.0	1307.	1410.	103.	27.6	846.	129.7
1G6	720.	-84.0	1536.	1732.	196.	71.6	986.	274.0
1G10	368.	-84.0	786.	1047.	261.	110.4	579.	457.0
3M2	449.	-83.0	922.	985.	63.	17.4	783.	53.2
3M6	684.	-84.0	1600.	1980.	387.	80.8	919.	283.8
3M8	575.	-83.0	1337.	1914.	577.	196.0	849.	406.8
3M10	299.	-84.0	809.	1426.	617.	176.0	918.	394.5

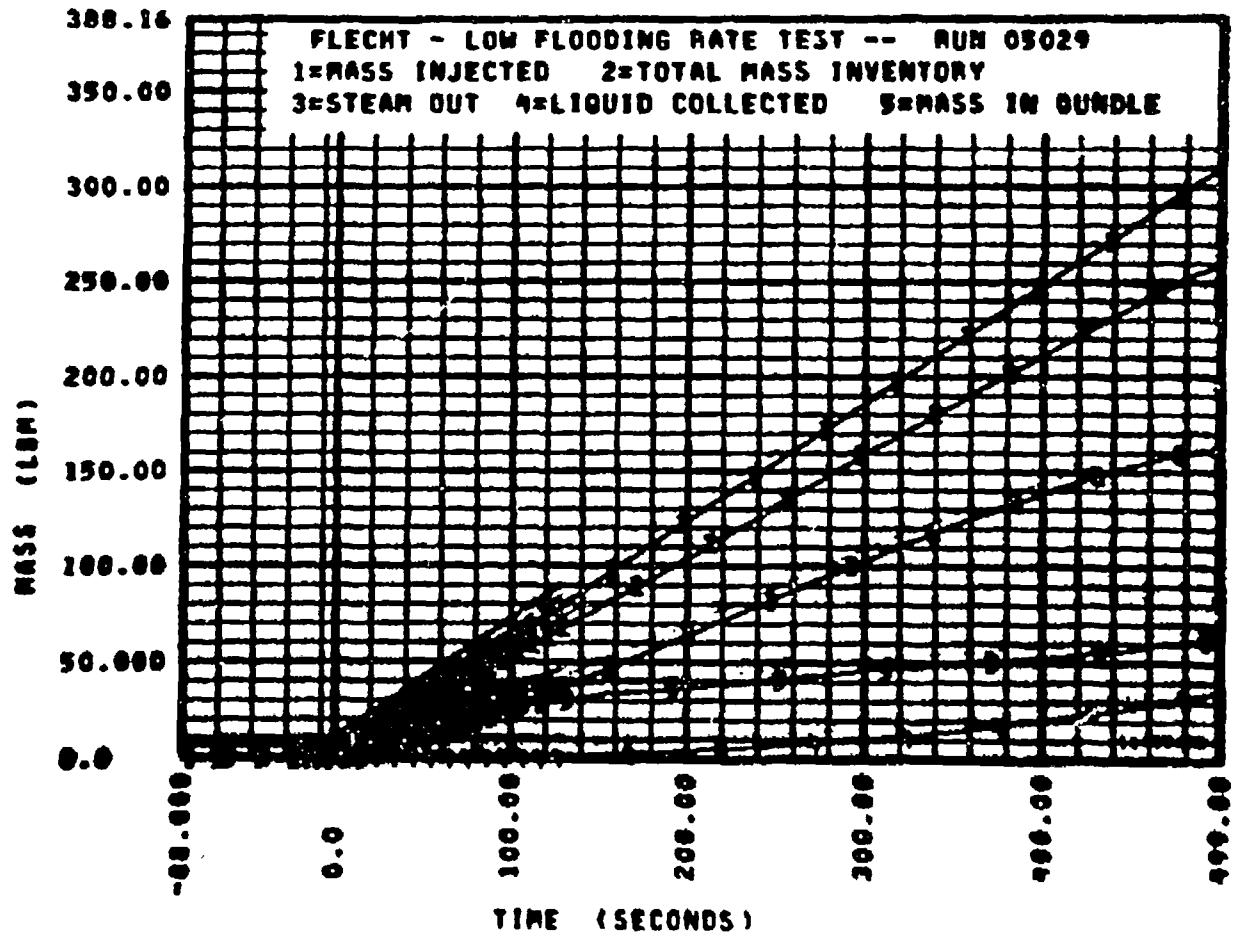


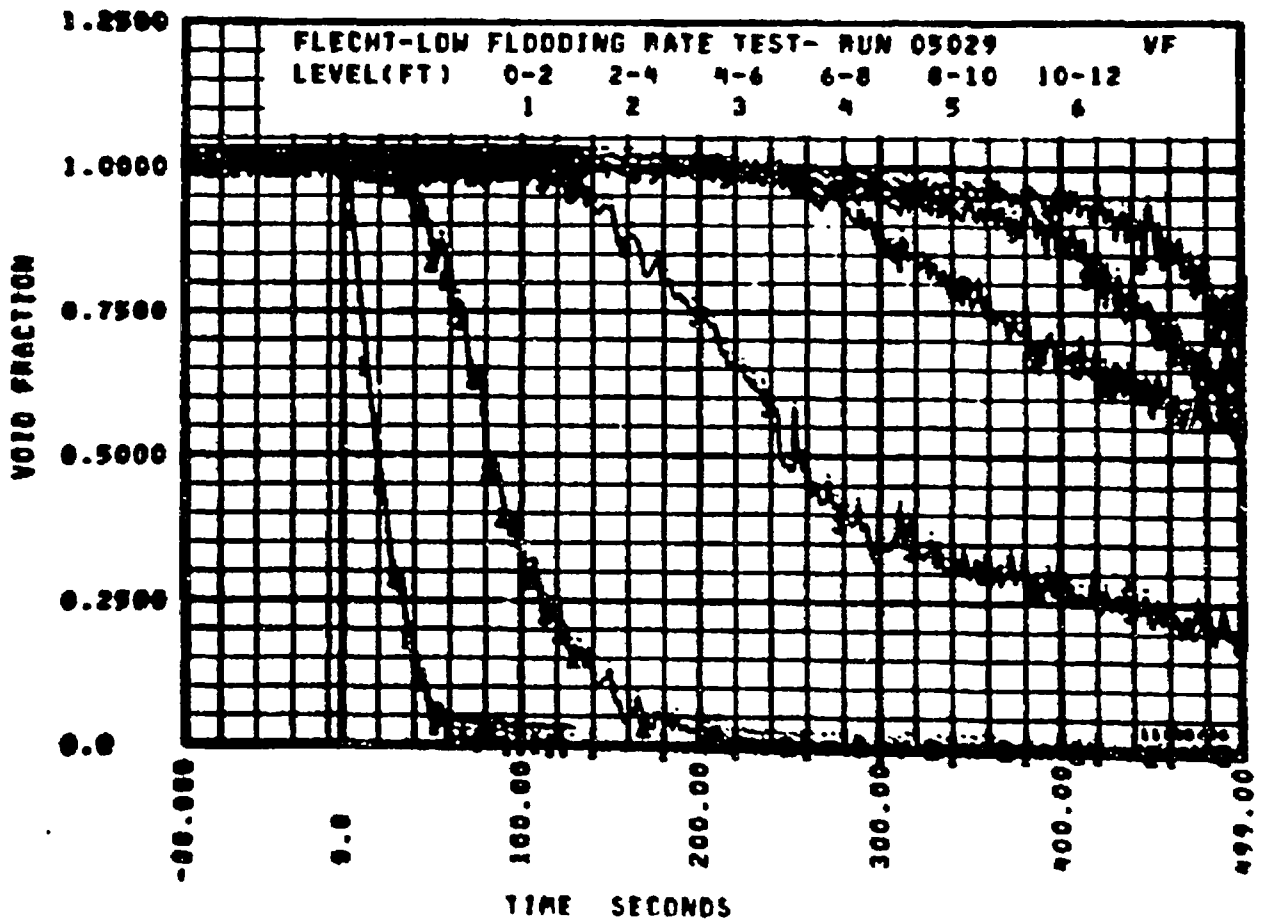
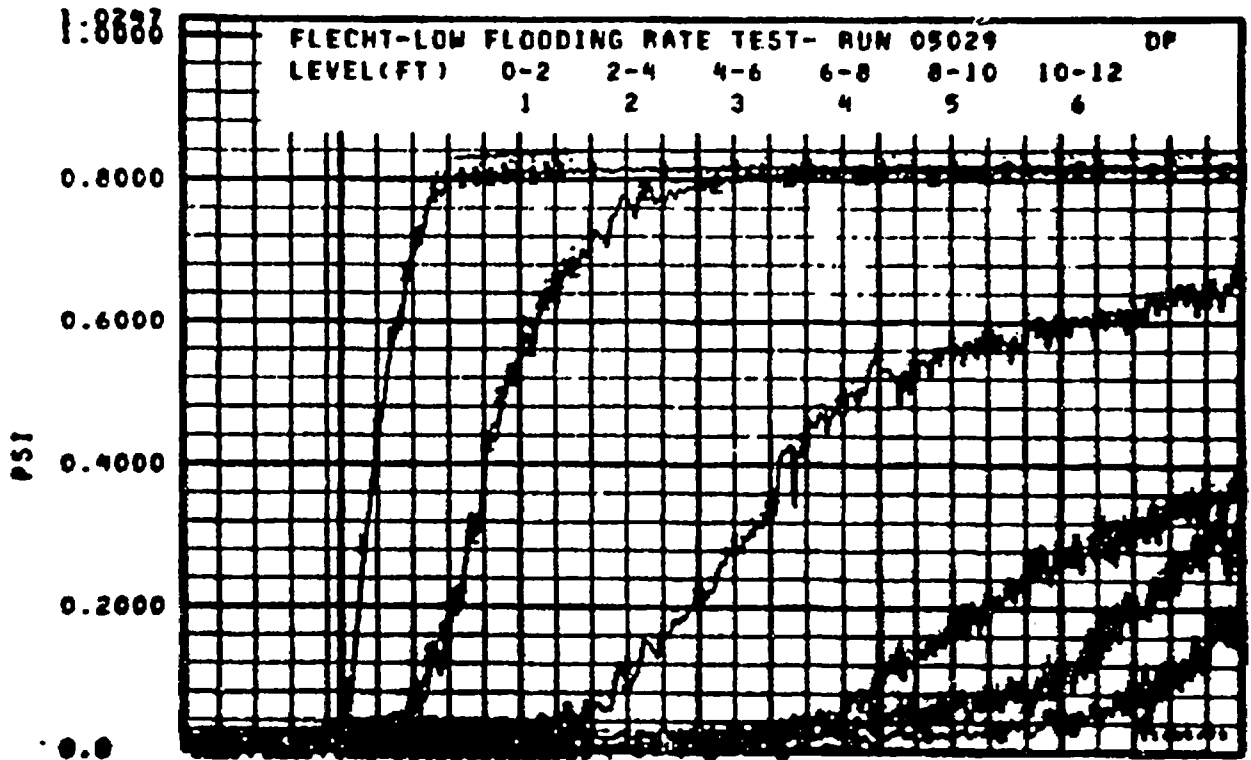


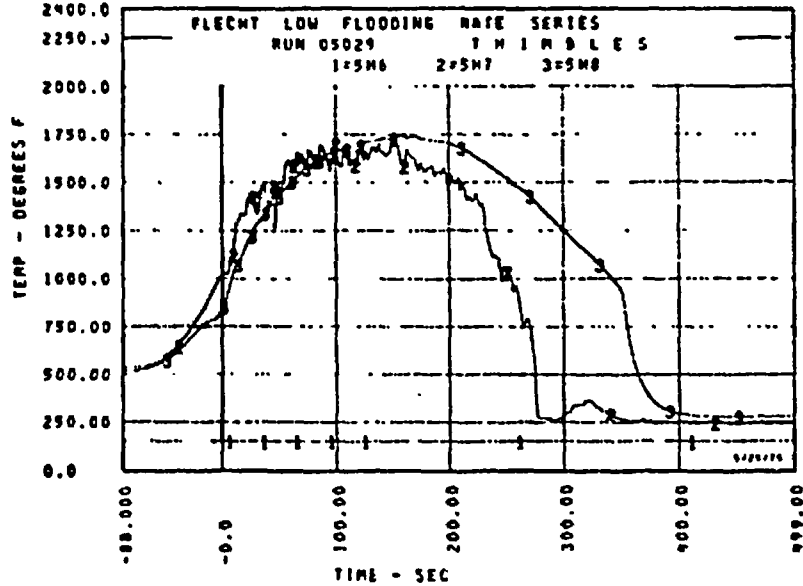
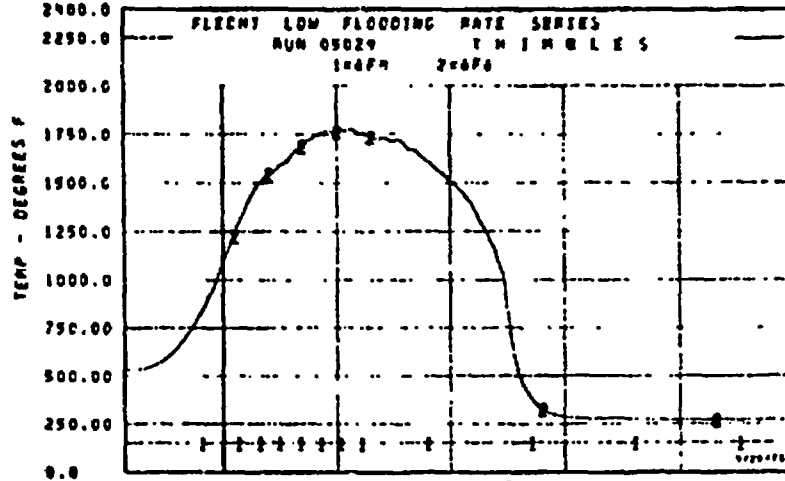
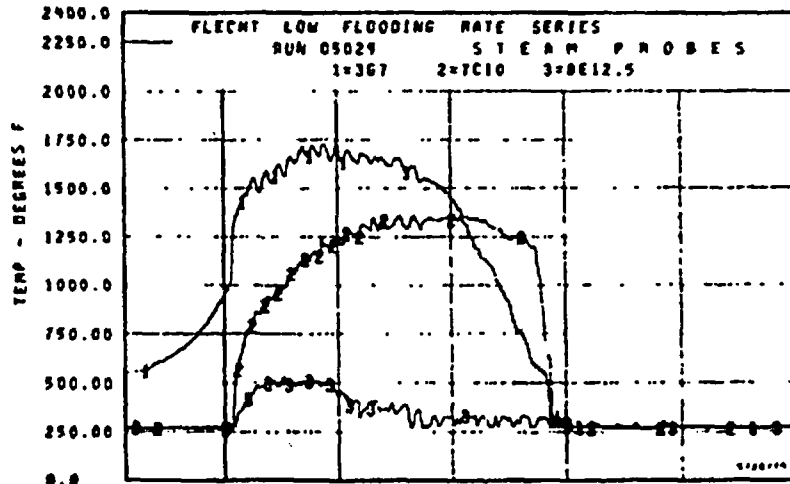


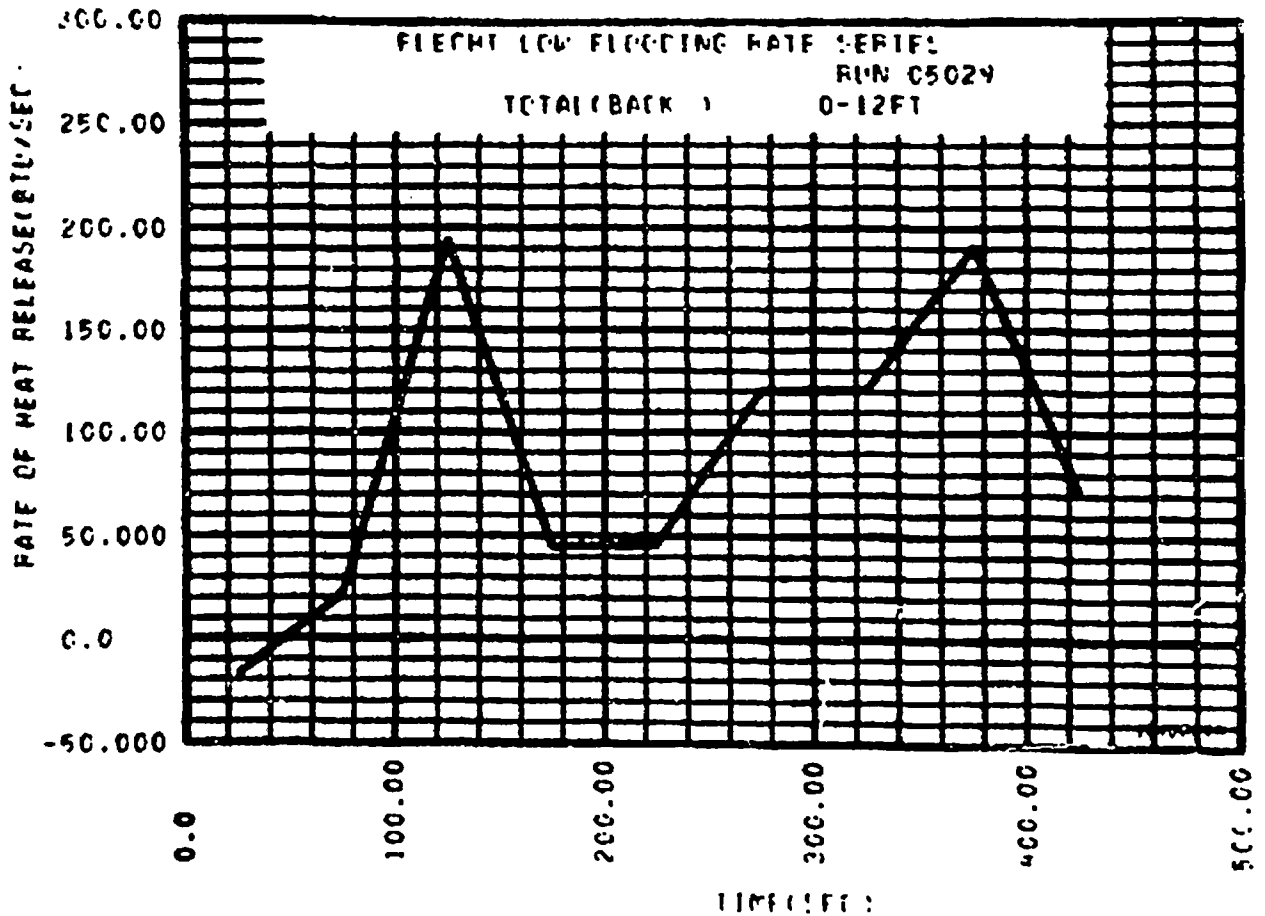
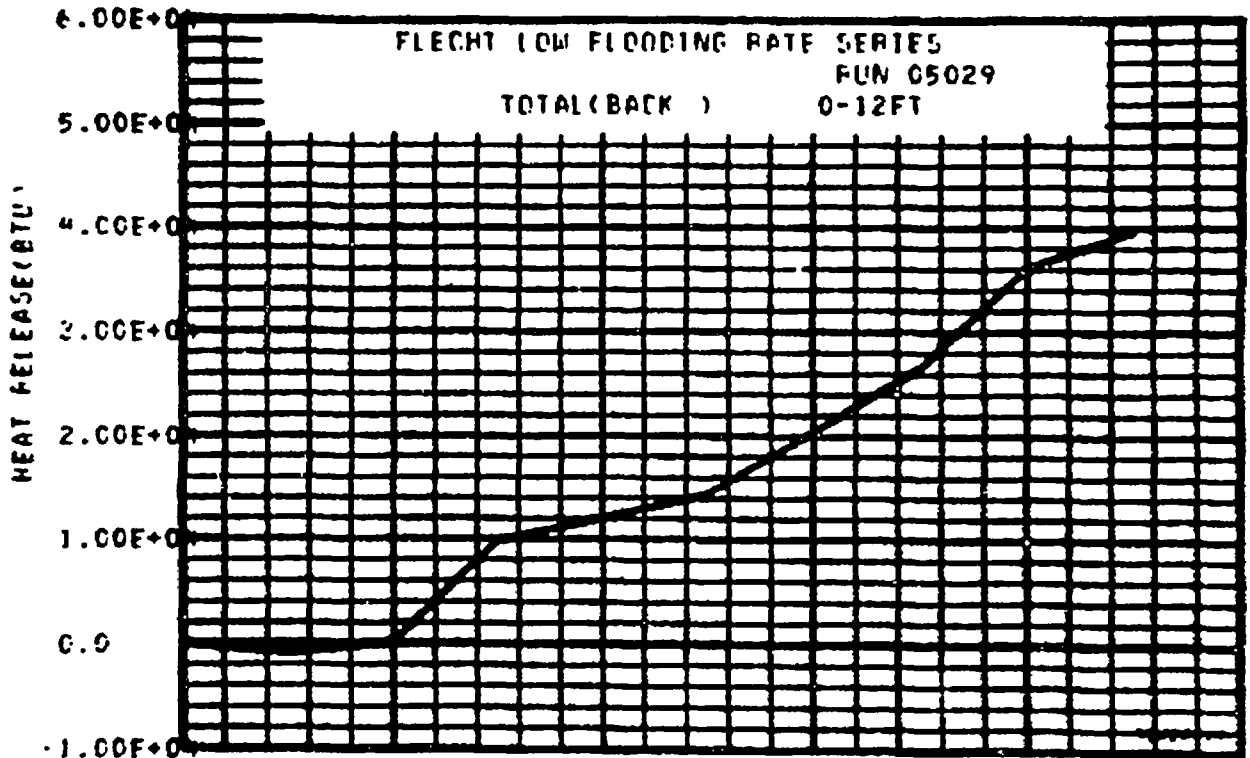












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FLECHT - LOW FLOODING RATE TEST

SUMMARY SHEET

COSINE AXIAL POWER PROFILE

RUN NO. 05132

DATE: 5/16/75

A. RUN CONDITIONS

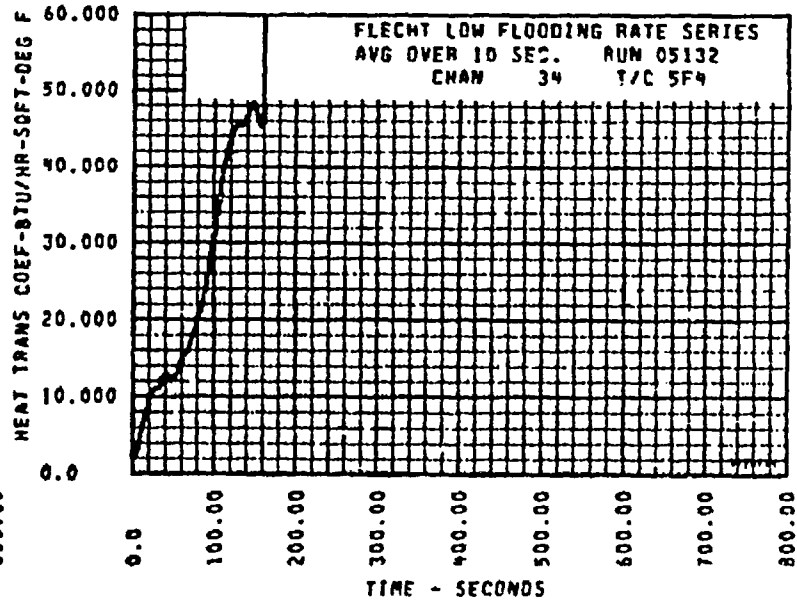
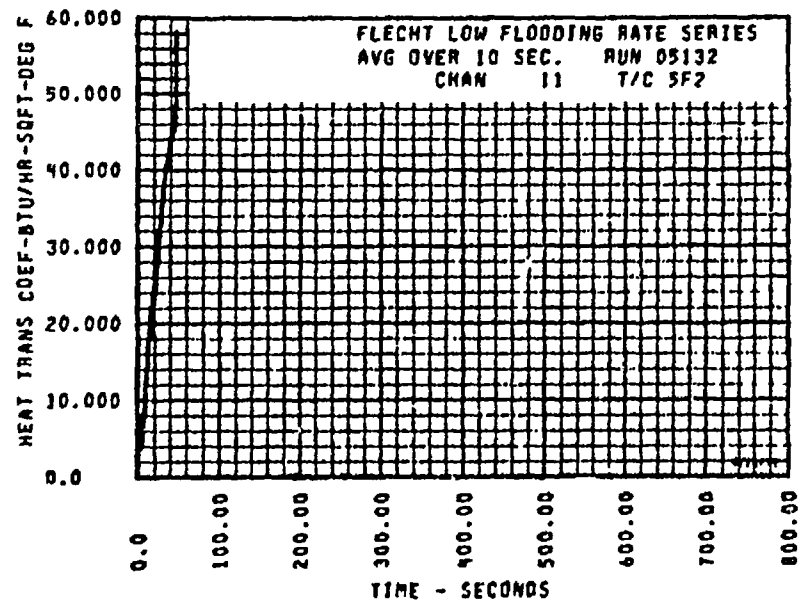
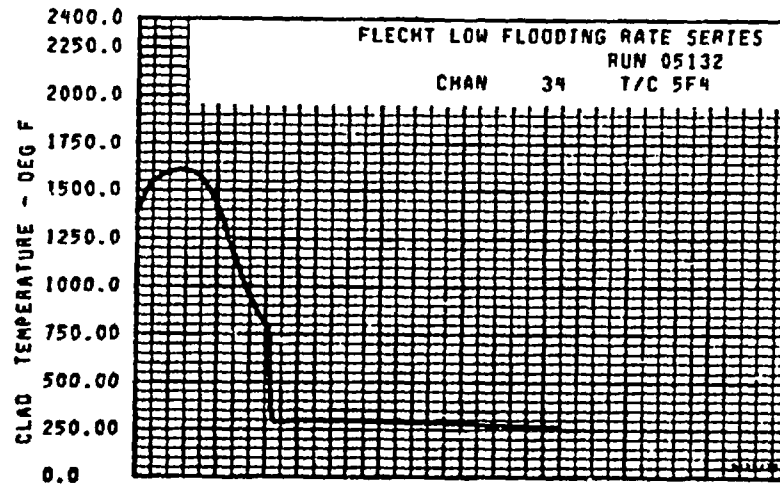
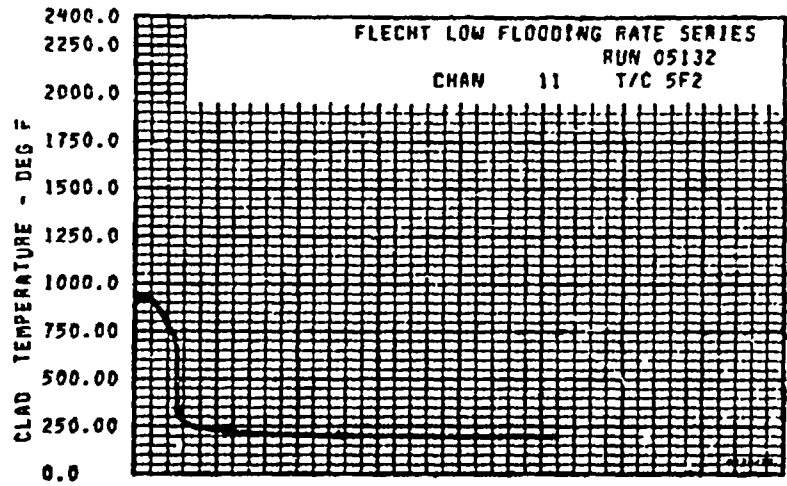
Upper Plenum Pressure, psia	<u>40</u>	
Initial Clad Temperature (6 Ft)°F At Flood	<u>1,601</u>	Rod T/C <u>4H6</u>
Rod Peak Power, kw/ft	<u>0.95</u>	
Flooding Rate, in/sec	<u>0.99</u>	
	<u>----</u>	
	<u>----</u>	
Coolant Temperature, °F	<u>127</u>	
Bundle Radial Power Profile	<u>FLECHT</u>	
Disconnected Rods	<u>7F</u>	

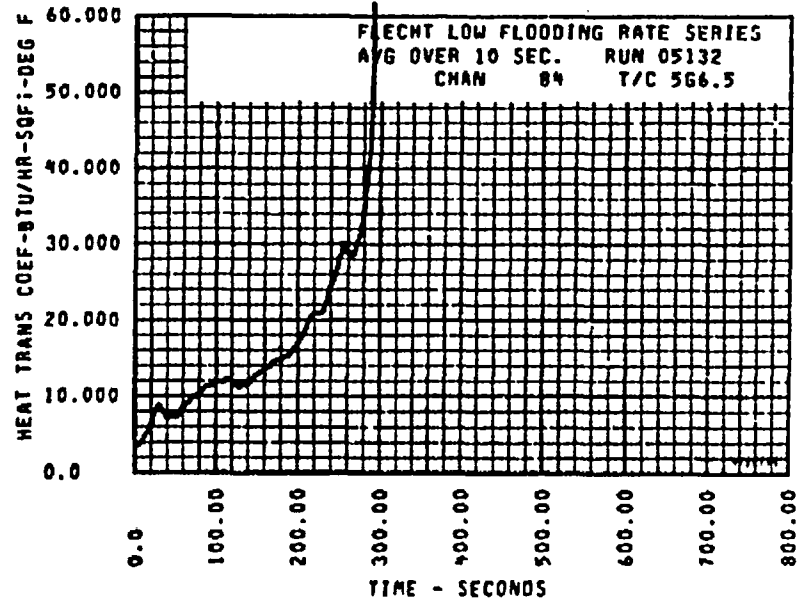
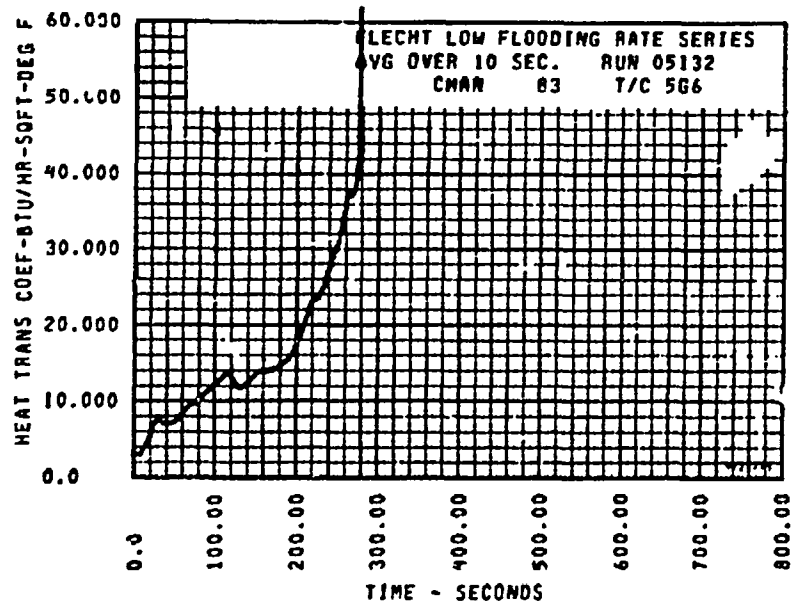
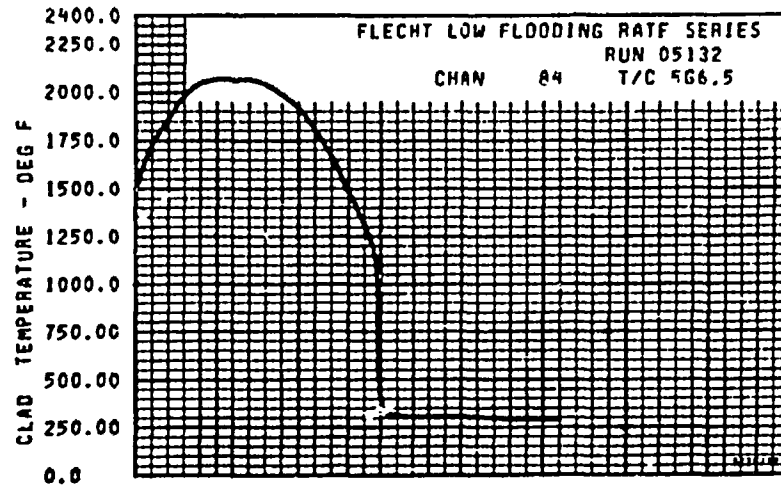
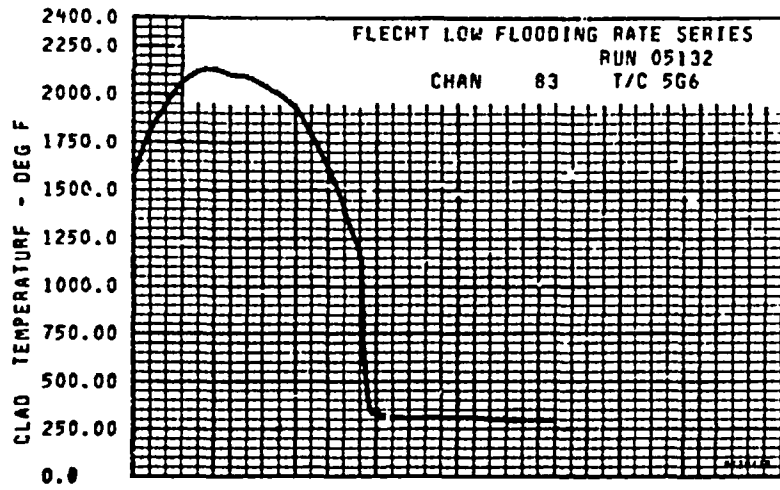
B. INITIAL HOUSING TEMPERATURE

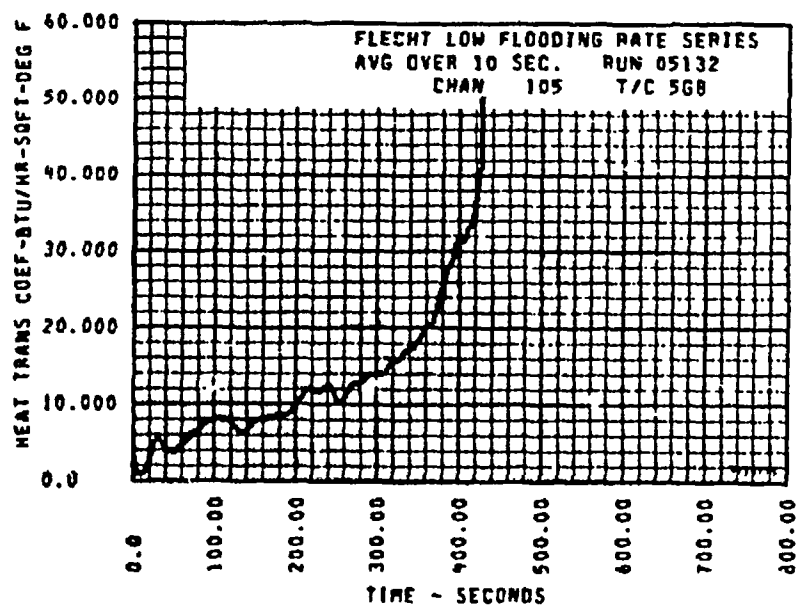
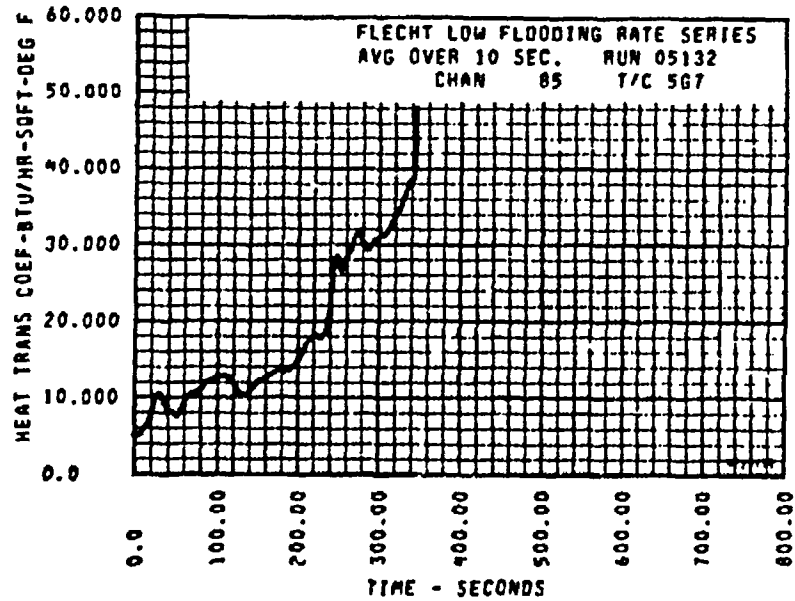
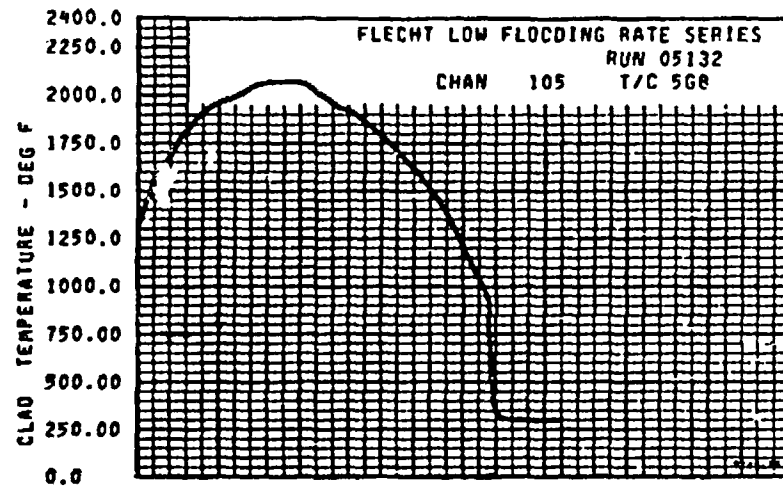
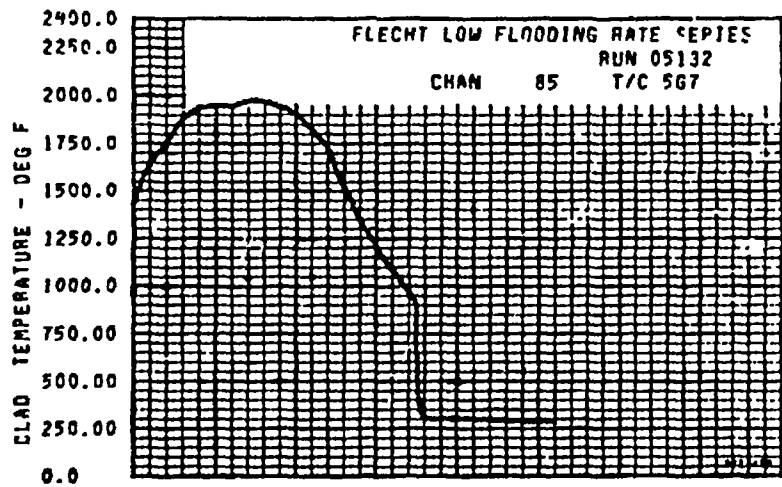
Back Side Elevation, Ft.	Temperature, °F
0	<u>271</u>
2	<u>495</u>
4	<u>668</u>
5.5	<u>764</u>
6	<u>778</u>
6.5	<u>632</u>
7	<u>633</u>
7.5	<u>637</u>
8	<u>665</u>
10	<u>502</u>
12	<u>278</u>
Average	<u>575</u>
Lower Plenum	<u>114</u>
Upper Plenum	<u>270</u>

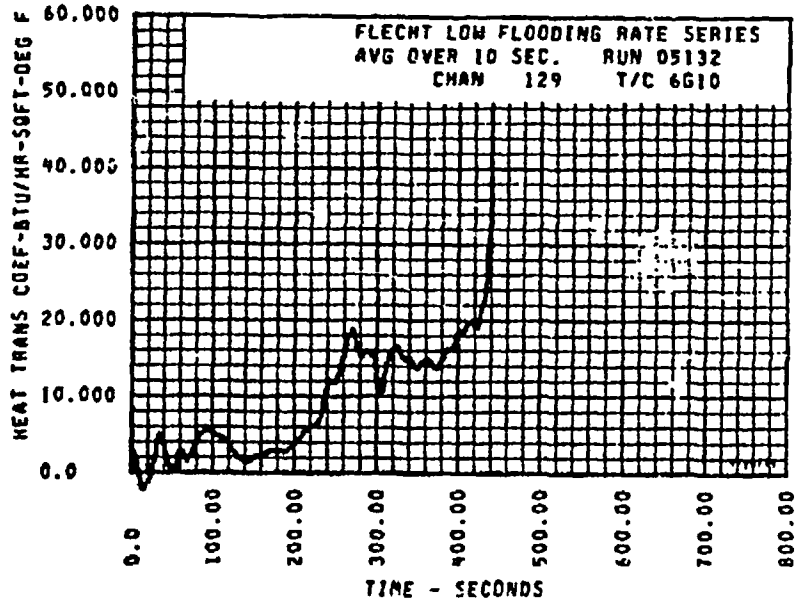
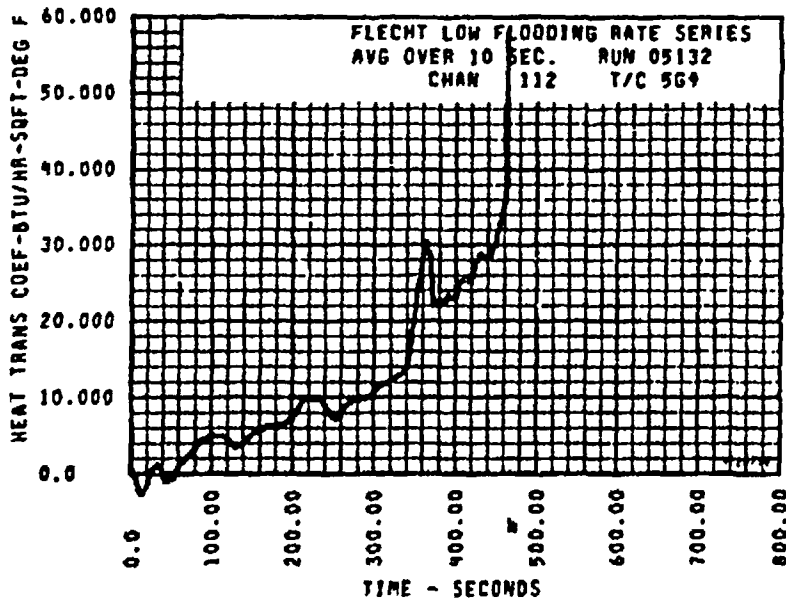
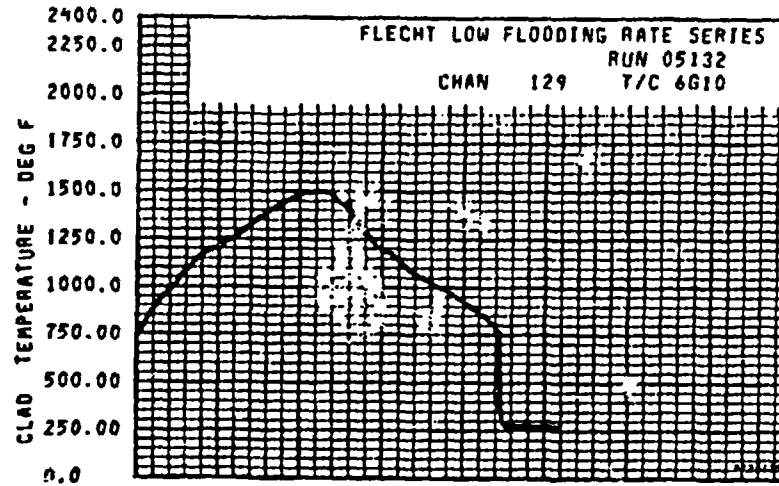
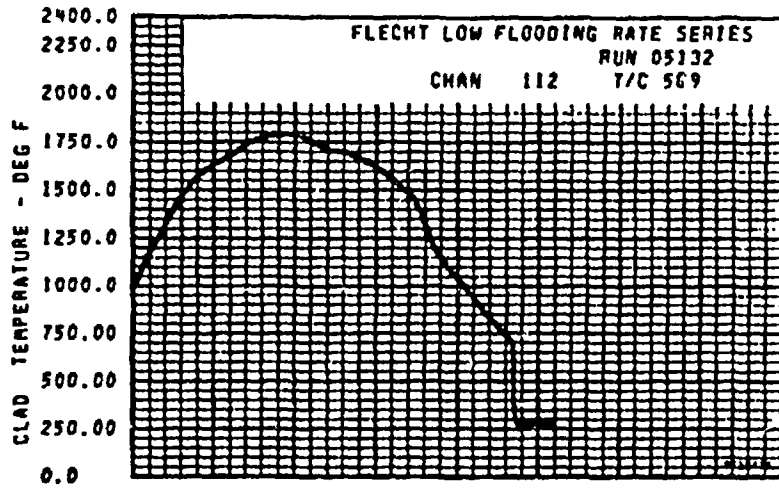
FLEIGHT-LOW FLOOR IS NOT TO BE USED FOR THE PURPOSES OF THIS

RAZELBY	TEMPERATURE AT 3000 FT (EG.F)	TIME OF DAY (EG.F)	TEMPERATURE AT FLOOR (EG.F)	WIND MAXIMUM TEMPERATURE (EG.F)	TEMPERATURE AT 500 FT (EG.F)	TEMPERATURE AT 1000 FT (EG.F)	TEMPERATURE AT 1500 FT (EG.F)	TEMPERATURE AT 2000 FT (EG.F)
647.5	777.	-59.6	617.	674.	21.	6.4	764.	19.5
648	761.	-52.6	657.	685.	11.	0.7	671.	23.6
641.5	797.	-51.6	787.	721.	75.	0.3	611.	30.3
642	544.	-57.6	917.	977.	55.	17.4	776.	52.6
646	563.	-51.6	1646.	1646.	245.	41.5	623.	165.7
646	591.	-51.6	1531.	2999.	407.	97.9	96.	296.4
676	616.	-51.6	1503.	7019.	516.	07.0	127.	219.9
670.5	307.	-51.6	1677.	2367.	617.	113.0	263.	375.3
677	576.	-51.6	1407.	1557.	457.	137.7	717.	180.6
678	551.	-51.6	1377.	1361.	686.	167.0	617.	435.0
67	111.	-51.6	755.	1694.	747.	178.0	679.	478.0
6717	776.	-51.6	737.	1797.	665.	200.0	717.	456.6
6718	772.	-51.6	787.	1835.	497.	117.0	731.	416.7
6719	772.	-51.6	477.	453.	701.	207.0	531.	336.4
678	277.	-51.6	797.	827.	7.	0.9	792.	.4
550.5	796.	-52.6	607.	675.	19.	4.4	577.	18.1
551	777.	-51.6	634.	665.	71.	0.0	547.	25.3
551.5	0	0	0	0	0	0	0	0
557	447.	-51.6	987.	939.	57.	10.6	697.	51.9
557	371.	-51.6	104.	1263.	114.	76.0	714.	97.3
557	457.	-57.6	1791.	1622.	271.	56.4	775.	165.7
558	459.	-57.6	1577.	2087.	576.	97.6	1001.	242.5
558	467.	-57.6	1577.	2138.	563.	93.6	1127.	282.9
558.5	310.	-51.6	1555.	2074.	567.	107.8	1174.	296.8
557	498.	-51.6	1437.	1971.	543.	145.0	915.	349.7
558	491.	-50.6	1323.	2078.	754.	180.0	775.	432.6
559	777.	-51.6	197.	1794.	803.	193.0	699.	468.0
5511	272.	-51.6	597.	1031.	441.	197.0	524.	477.0
5512	278.	-51.6	564.	927.	767.	196.0	677.	497.5
106	647.	-51.6	1324.	1434.	110.	32.6	657.	128.5
106	741.	-57.6	1541.	1769.	229.	60.6	975.	278.6
1010	767.	-51.6	777.	1100.	329.	119.8	566.	488.8
342	466.	-51.6	917.	970.	53.	10.2	714.	48.7
746	714.	-51.6	1531.	2865.	454.	81.8	961.	286.9
748	611.	-51.6	1334.	1975.	635.	134.0	915.	420.9
7410	722.	-51.6	787.	1471.	687.	160.0	1006.	384.6

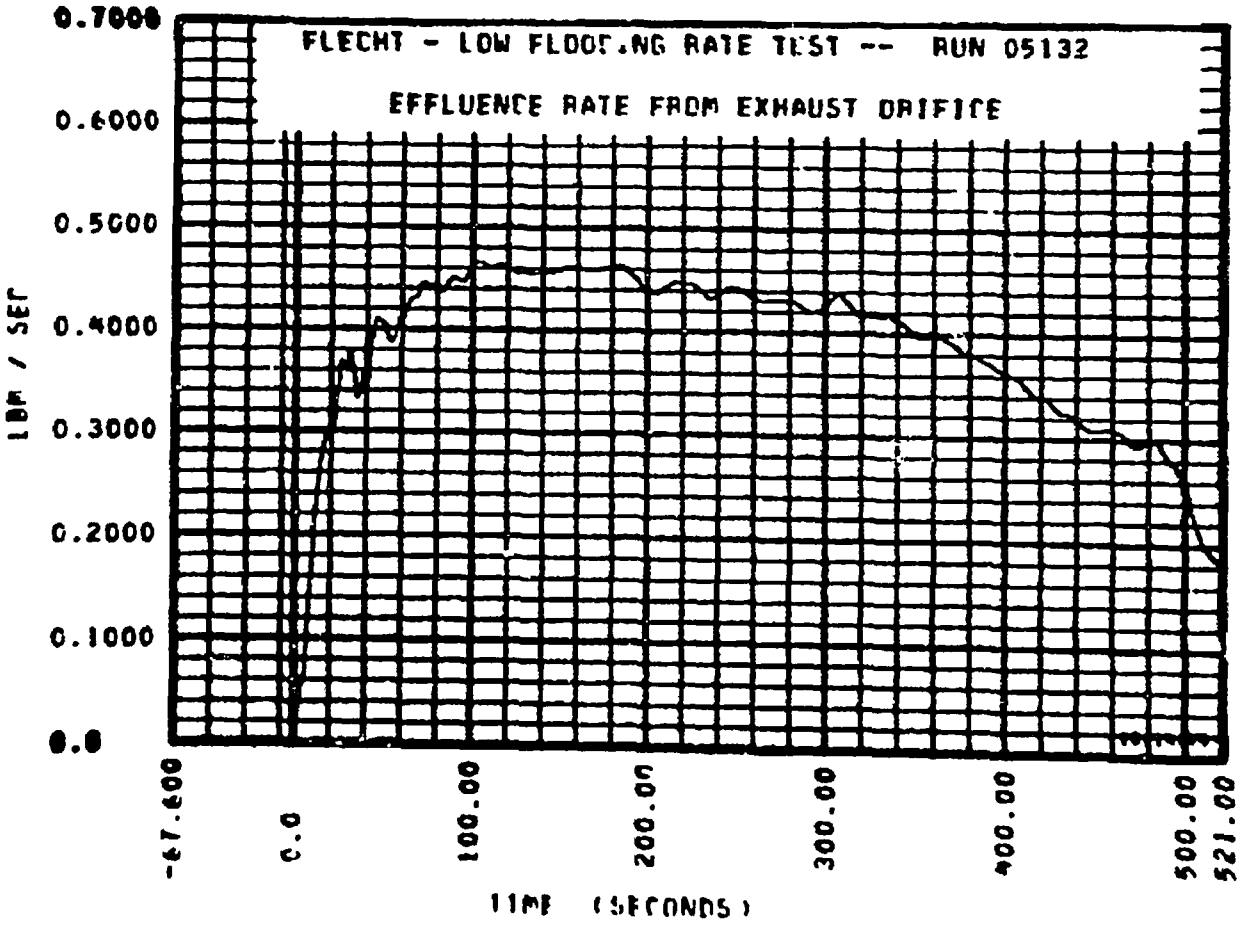
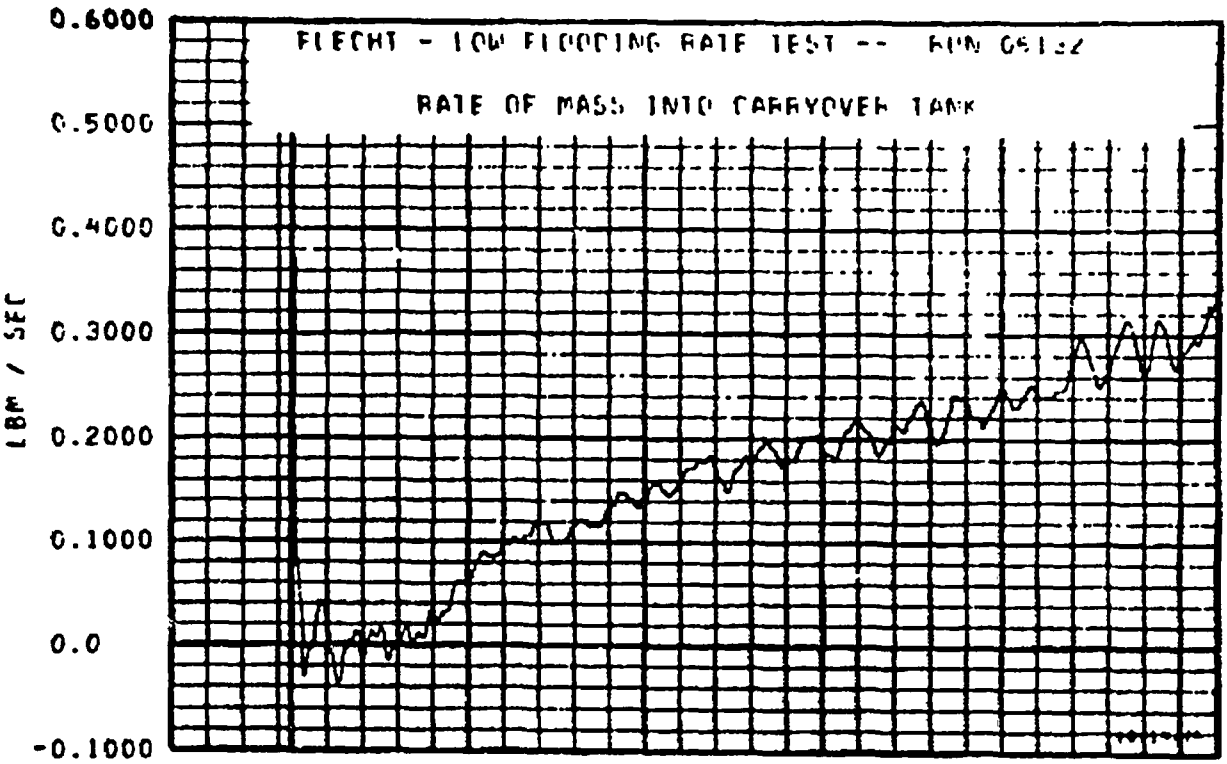




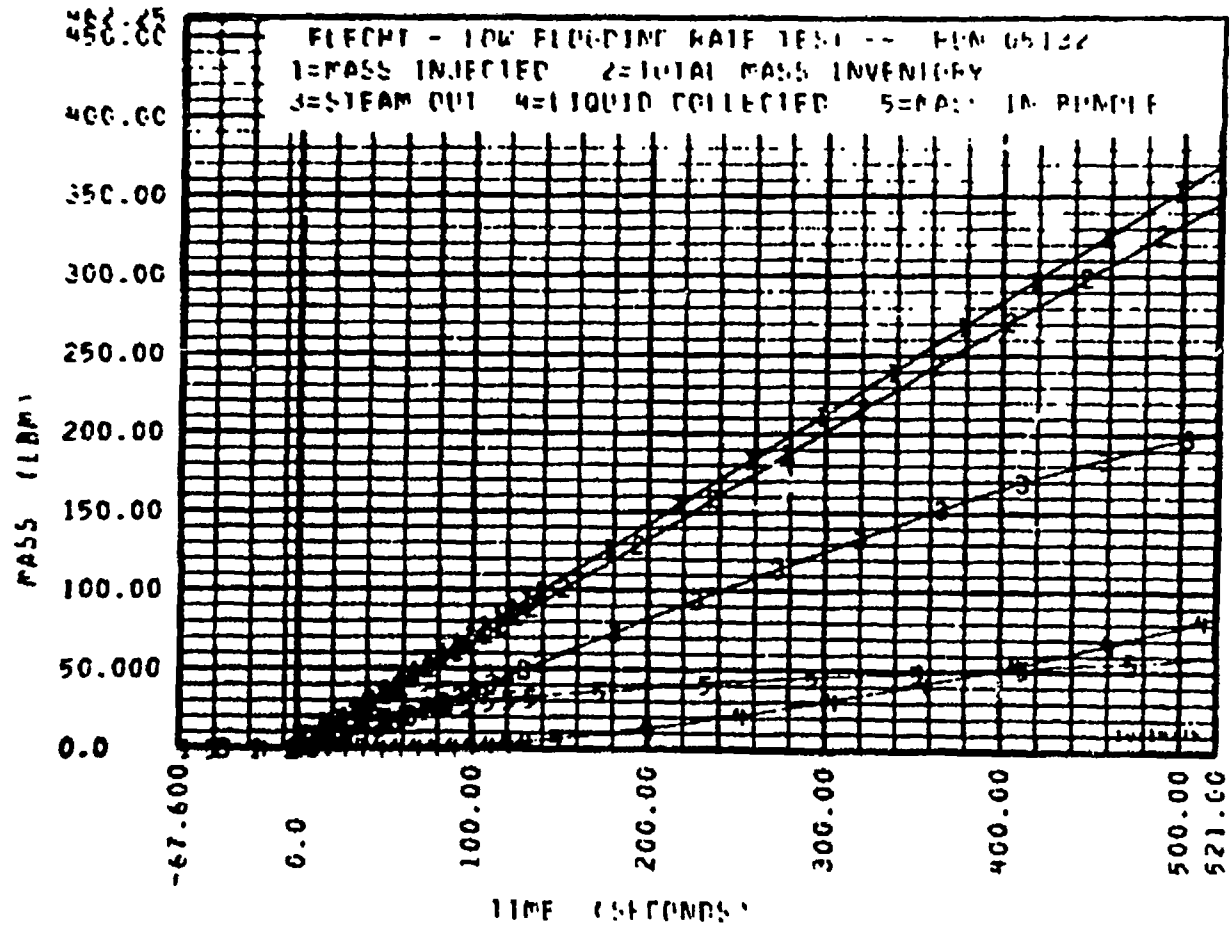




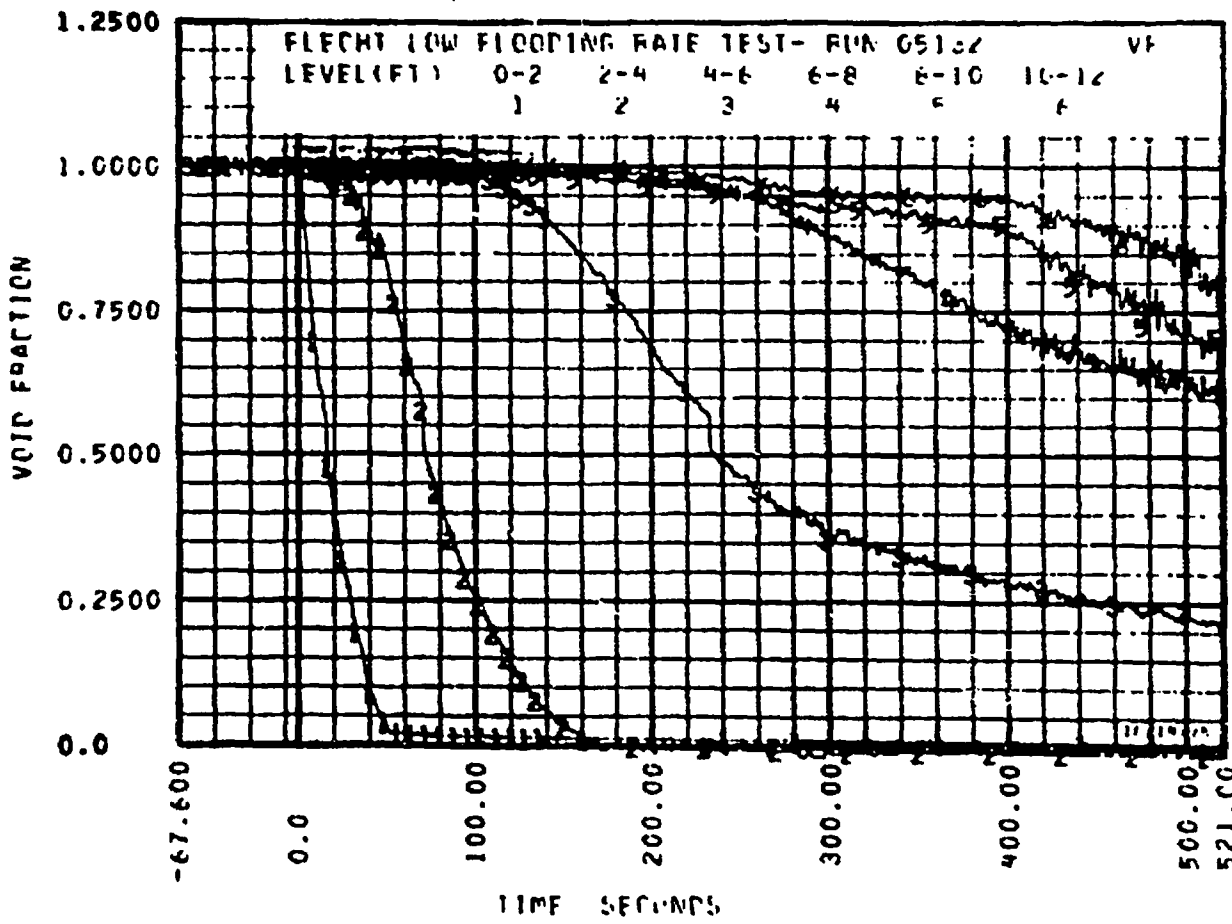
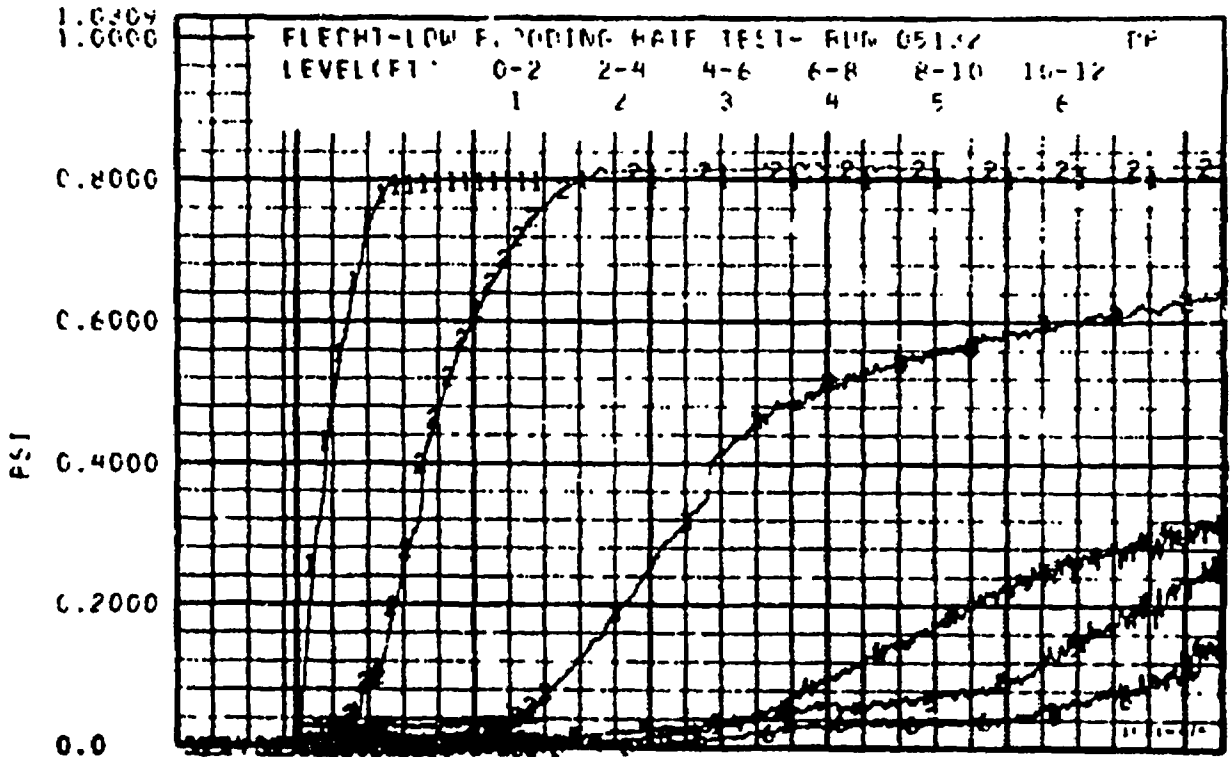
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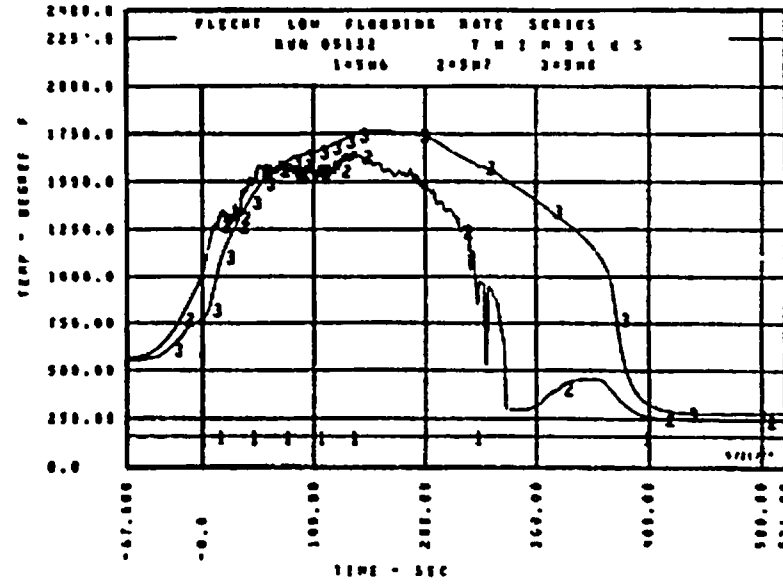
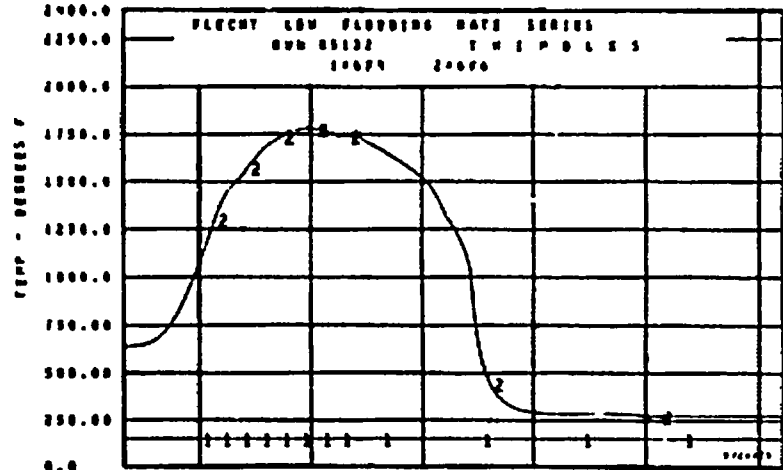
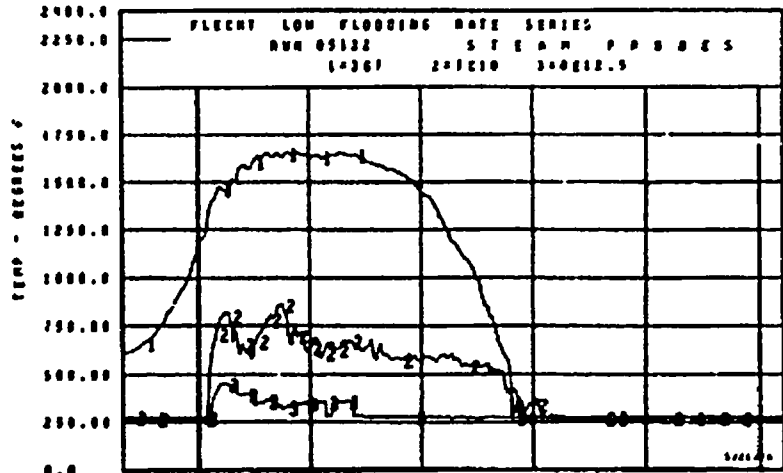


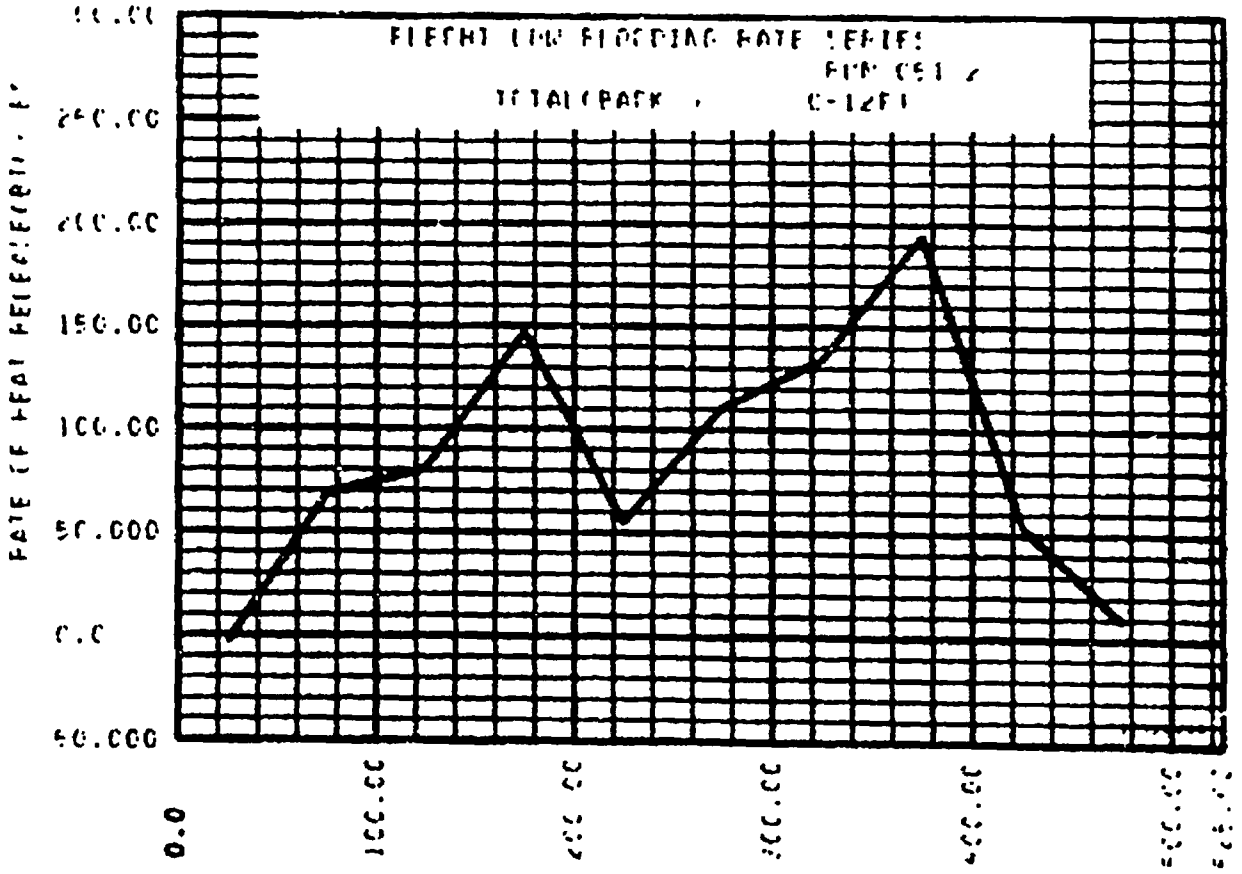
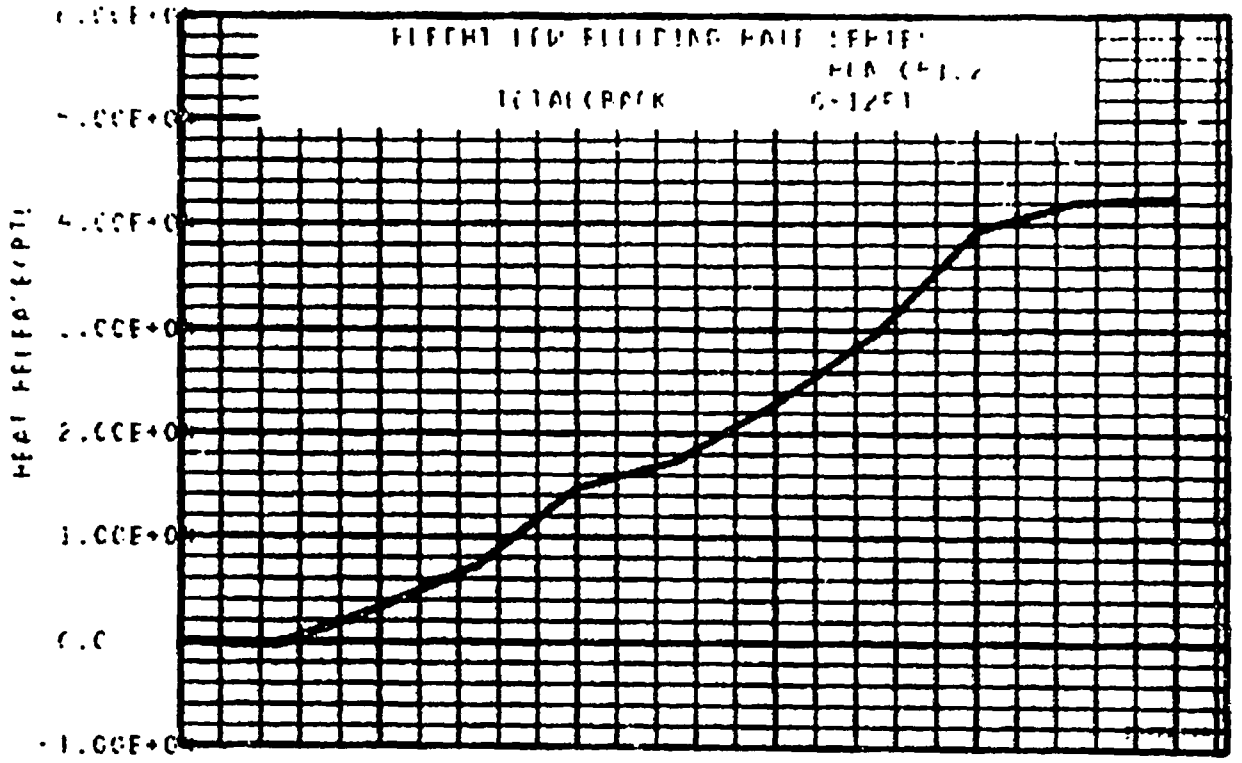
2025 RELEASE UNDER E.O. 14176



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FLECHT - LOW FLOODING RATE TEST

SUMMARY SHEET

COSINE AXIAL POWER PROFILE

RUN NO. 05239

DATE: 5/19/75

A. RUN CONDITIONS

Upper Plenum Pressure, psia	<u>60</u>	
Initial Clad Temperature (6 Ft)°F At Flood	<u>1,600</u>	Rod T/C <u>4H6</u>
Rod Peak Power, kw/ft	<u>0.95</u>	
Flooding Rate, in/sec	<u>0.82</u>	
	<u>---</u>	
	<u>---</u>	
	<u>---</u>	
Coolant Temperature, °F	<u>150</u>	
Bundle Radial Power Profile	<u>FLECHT</u>	
Disconnected Rods	<u>7F & 8C</u>	(Failed During Run)

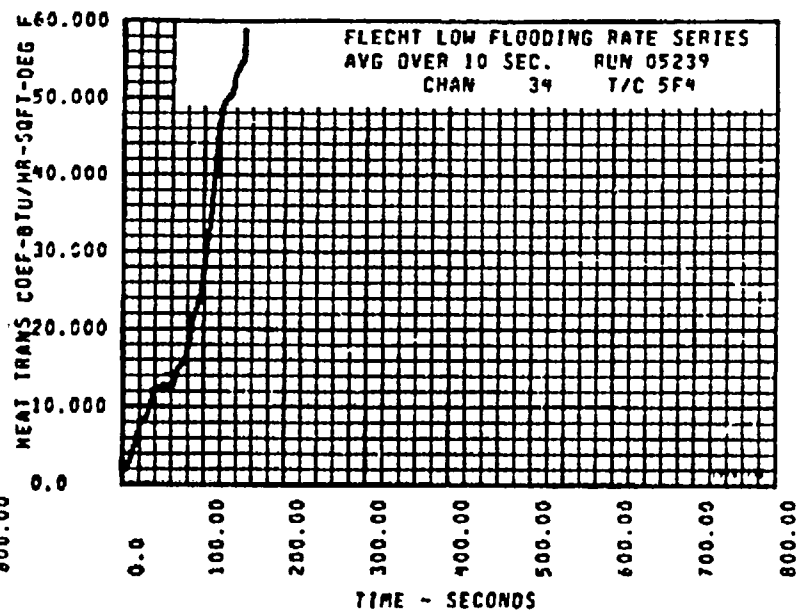
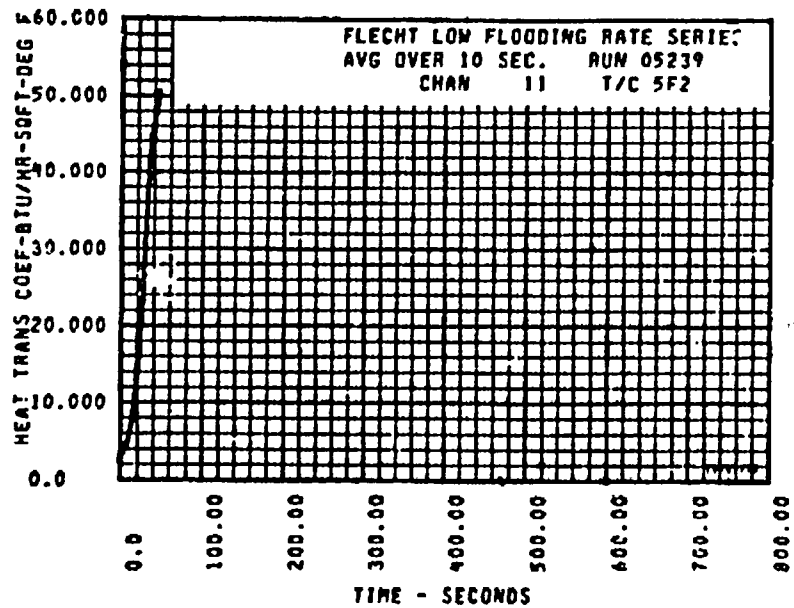
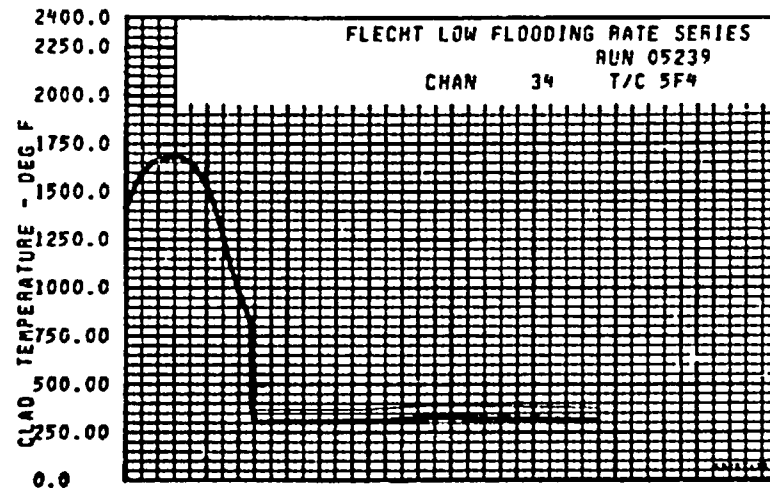
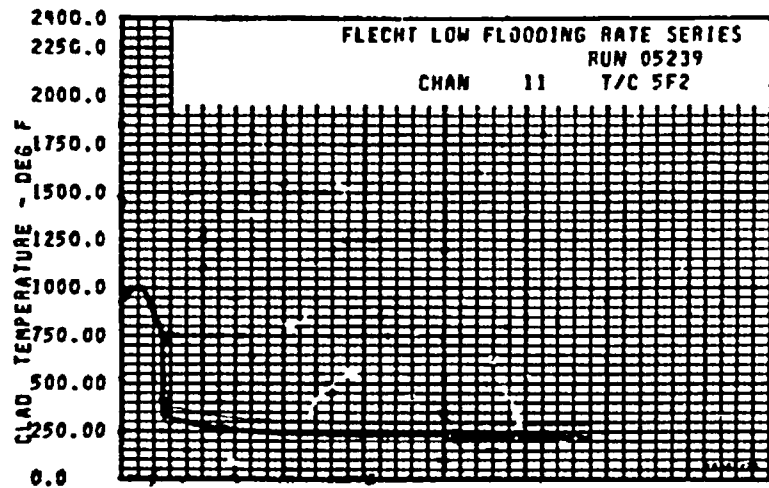
B. INITIAL HOUSING TEMPERATURE

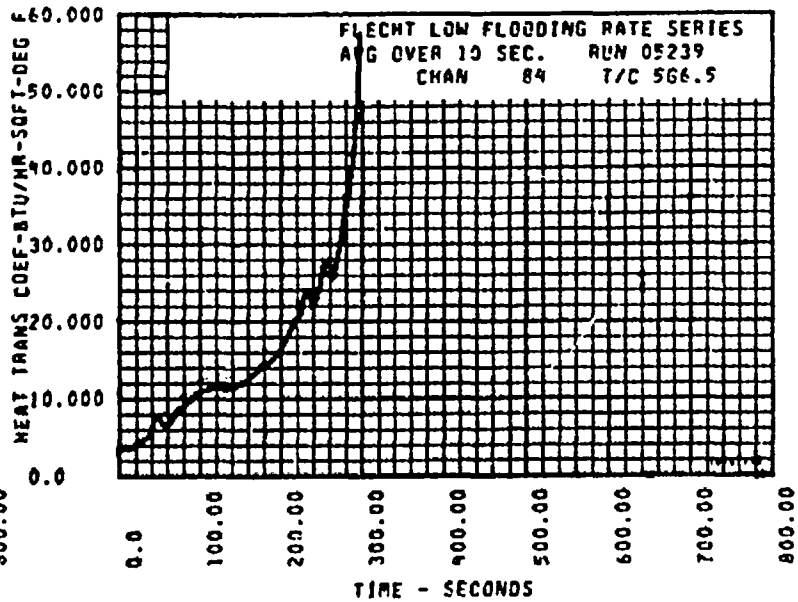
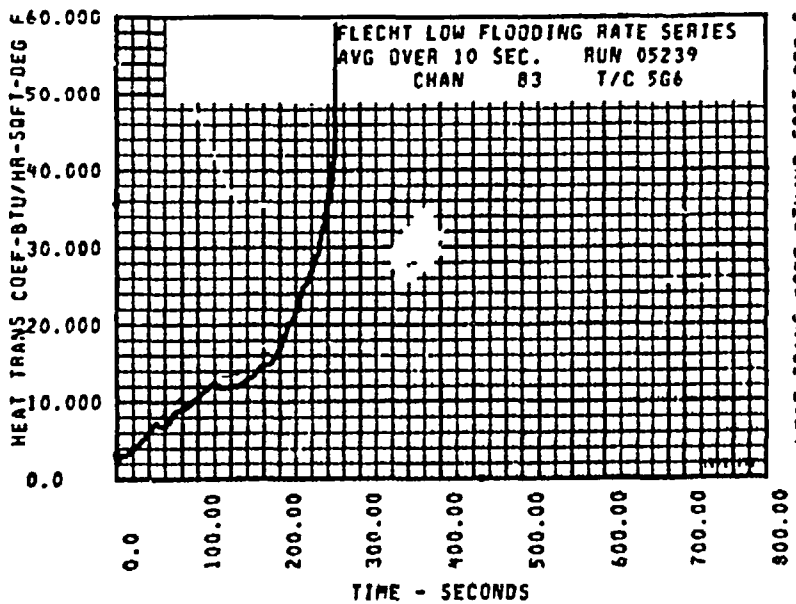
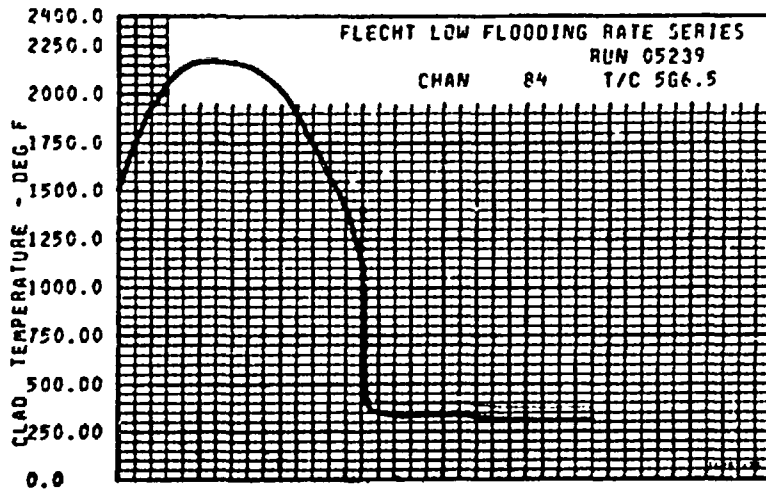
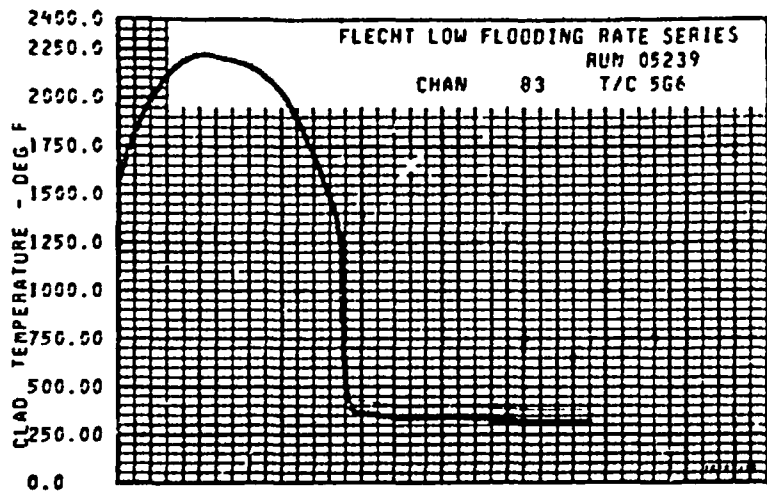
Back Side Elevation, Ft.	Temperature, °F
0	<u>292</u>
2	<u>575</u>
4	<u>731</u>
5.5	<u>806</u>
6	<u>815</u>
6.5	<u>669</u>
7	<u>675</u>
7.5	<u>692</u>
8	<u>742</u>
10	<u>600</u>
12	<u>269</u>
Average	<u>624</u>
Lower Plenum	<u>138</u>
Upper Plenum	<u>295</u>

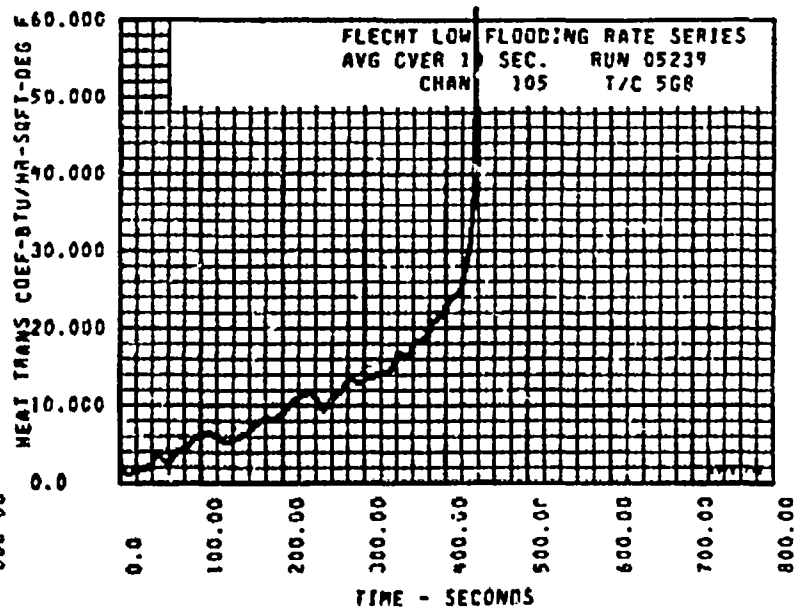
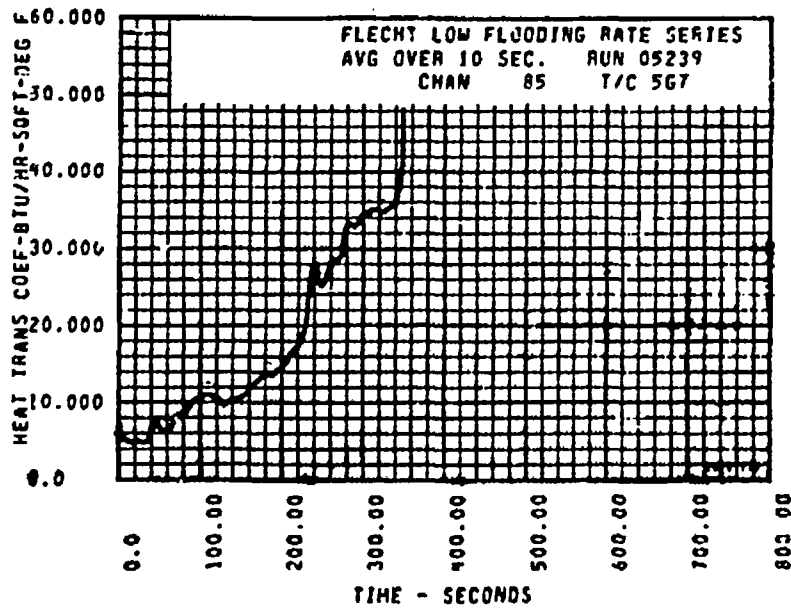
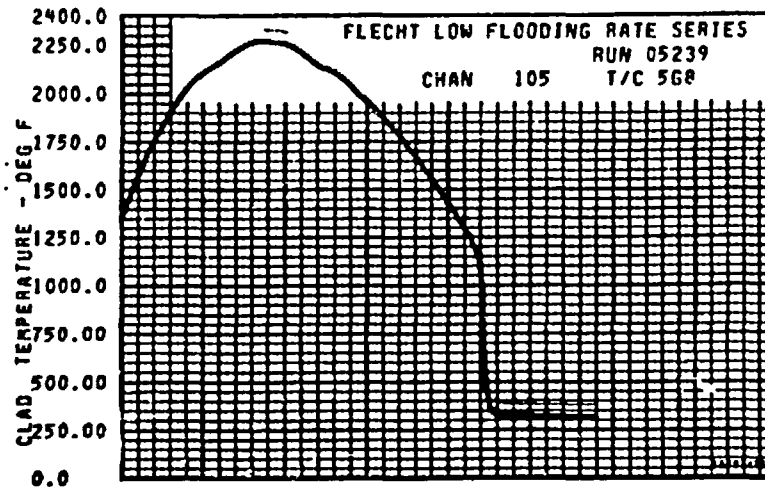
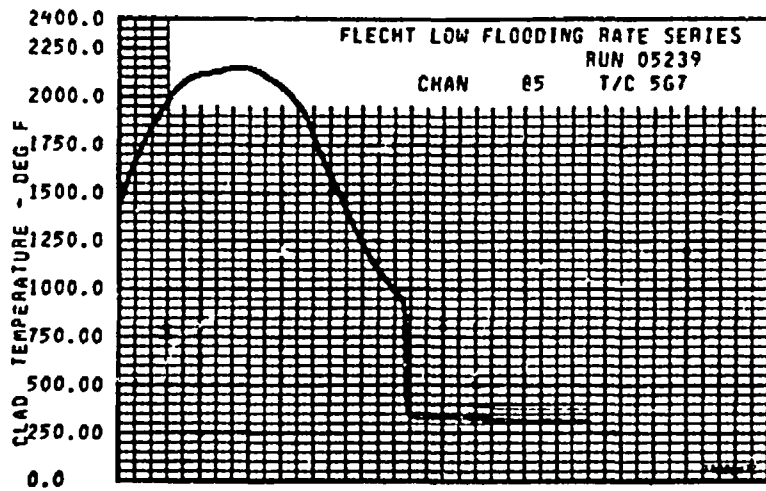
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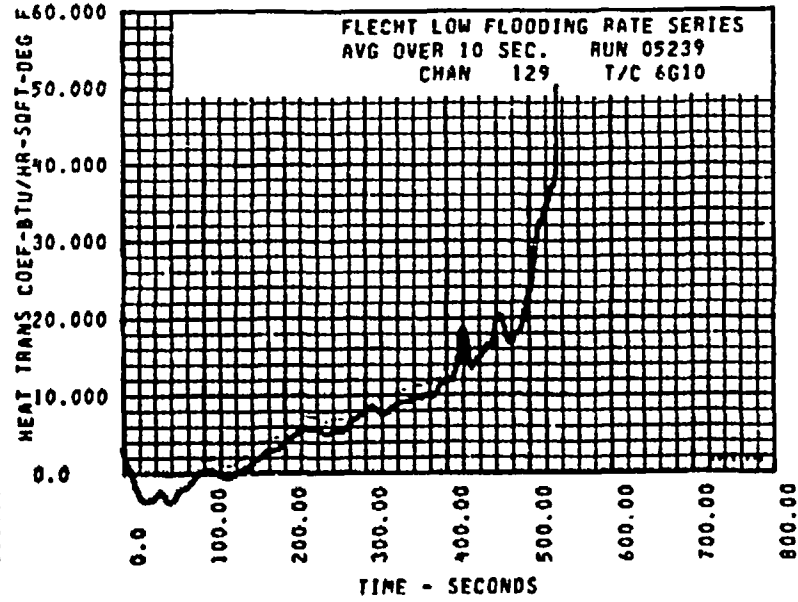
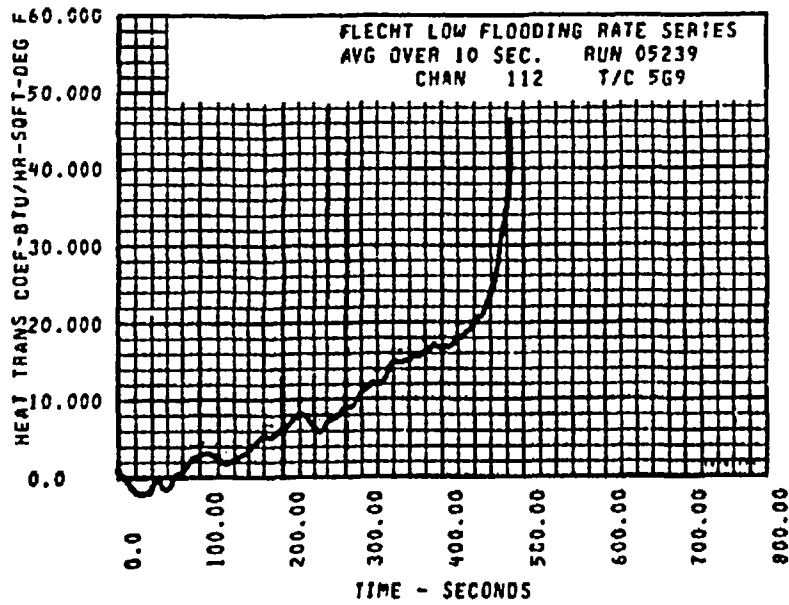
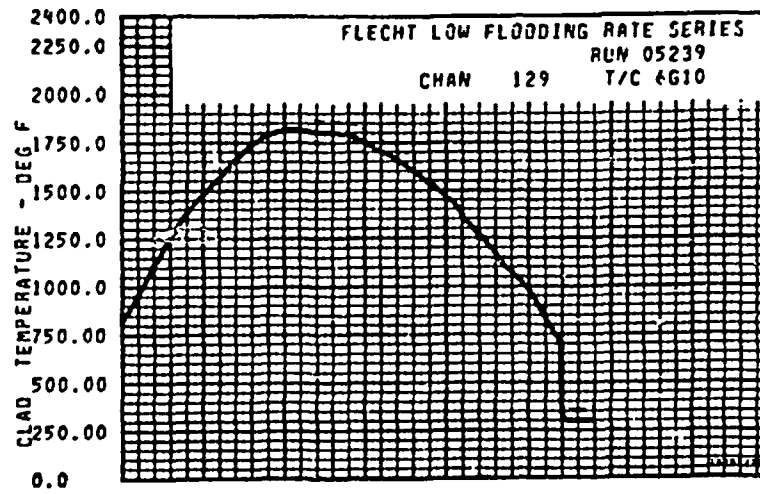
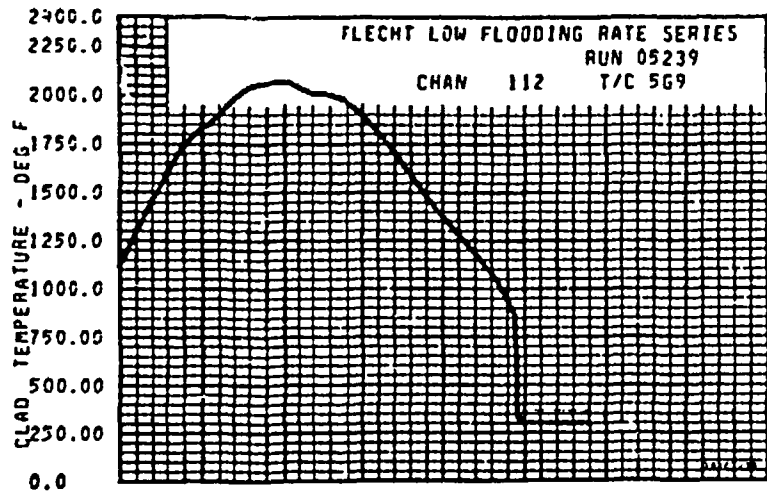
FLECHT-LOW FLOODING RATE ROD THERMOCOUPLE DATA

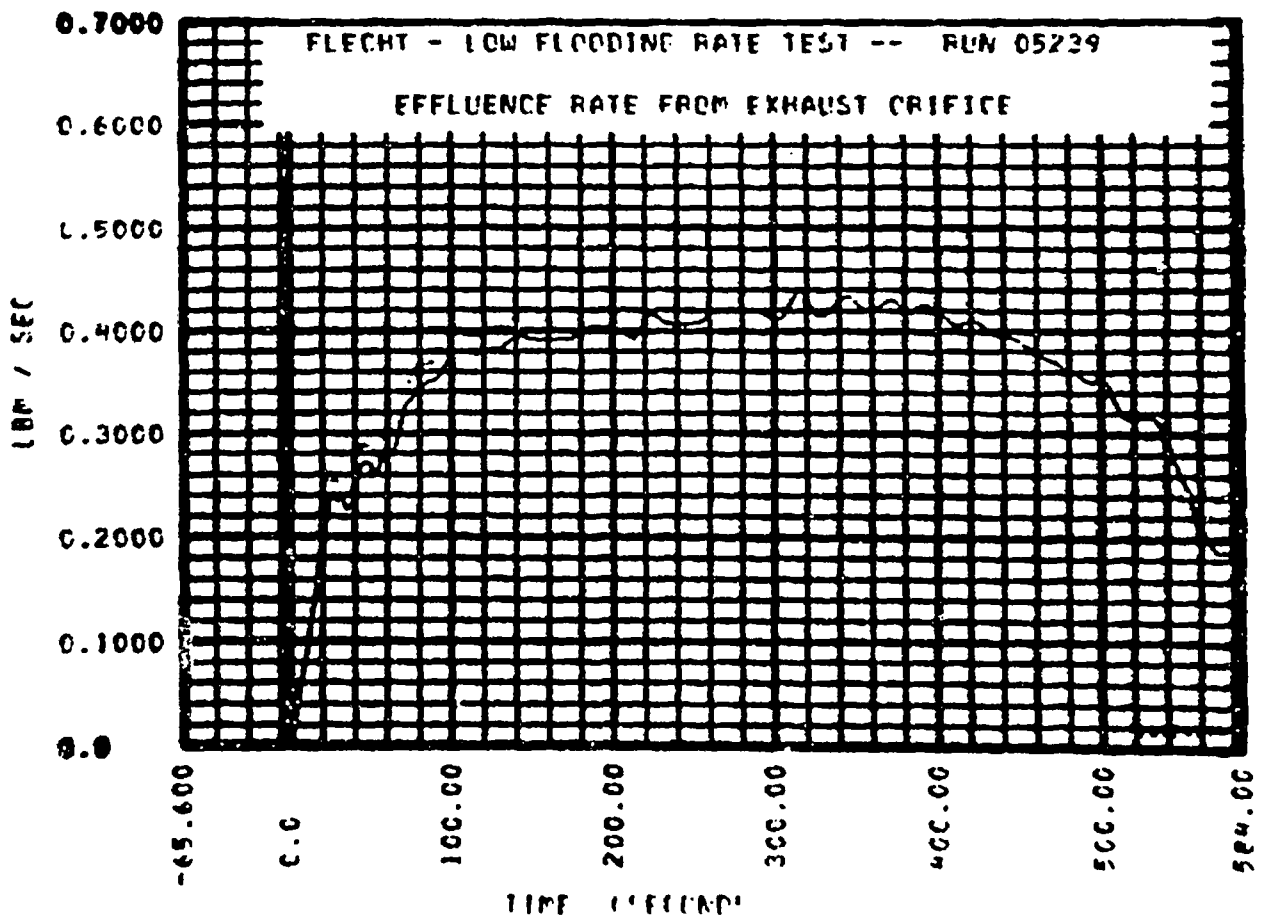
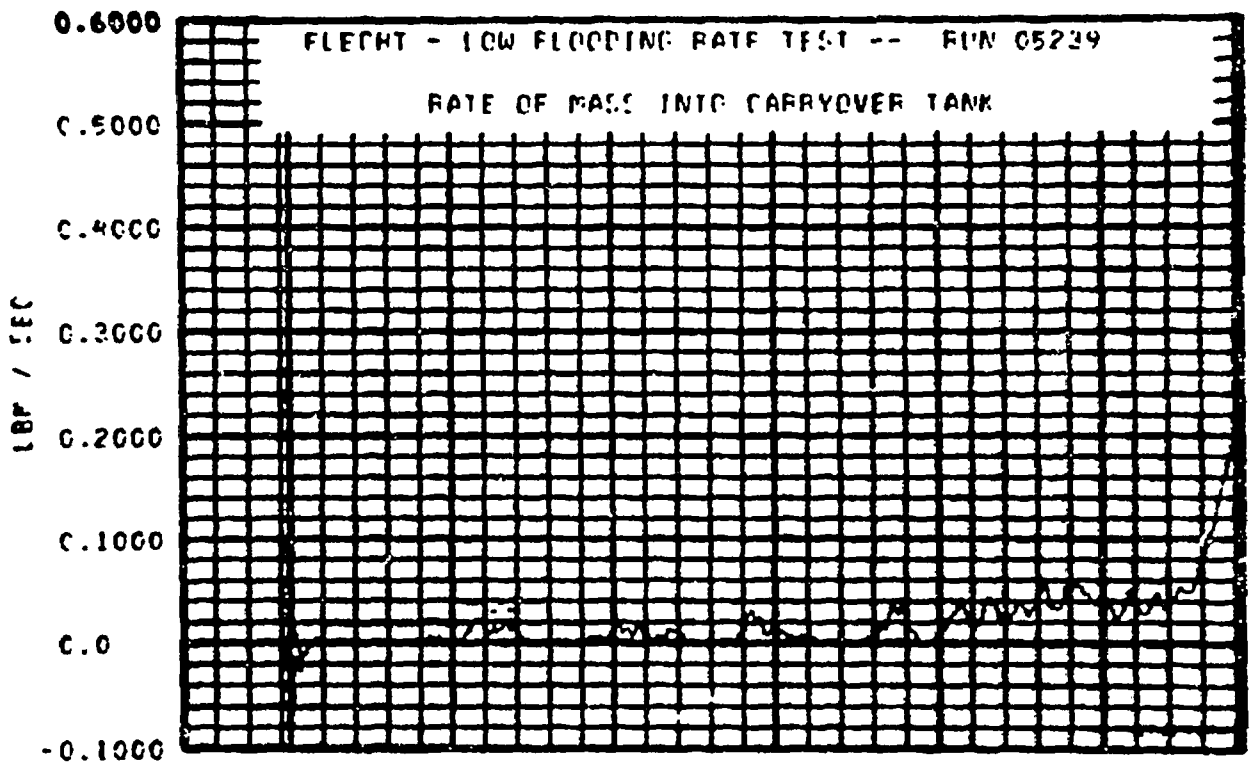
ROD LEVEL	TEMPERATURE AT POWER ON (DEG.F)	TIME OF POWER ON (SEC.)	INITIAL TEMPERATURE OF FLODD (DEG.F)	RUN NUMBER MAXIMUM TEMPERATURE (DEG.F)	05239 TEMPERATURE RISE (DEG.F)	TURNAROUND TIME (SEC.)	QUENCH TEMPERATURE (DEG.F)	QUENCH TIME (SEC.)
440.5	310.	-59.6	415.	647.	29.	7.0	474.	19.0
441	347.	-59.6	677.	717.	55.	12.6	621.	27.6
441.5	448.	-59.6	725.	787.	47.	15.9	678.	36.0
442	567.	-59.6	982.	1090.	84.	20.6	785.	53.0
444	728.	-59.6	1427.	1711.	286.	64.0	936.	153.5
444	777.	-59.6	1607.	2171.	471.	119.2	1073.	205.9
476	643.	-59.6	1497.	2108.	614.	182.8	1476.	275.9
476.5	592.	-57.6	1415.	2173.	718.	190.6	1023.	327.6
477	375.	-59.6	1781.	1987.	601.	186.6	790.	472.4
477	597.	-59.6	1764.	2100.	870.	169.0	456.	446.9
478	474.	-59.6	1007.	1919.	916.	111.9	741.	583.4
478	376.	-59.6	777.	1714.	936.	218.0	649.	535.0
478	797.	-59.6	594.	1564.	974.	355.0	864.	510.5
478	777.	-57.6	417.	945.	674.	267.0	513.	430.8
500	790.	-59.6	637.	437.	0.	0.0	633.	.7
500.5	194.	-59.6	477.	834.	26.	6.6	546.	13.8
501	158.	-59.6	447.	697.	47.	11.6	567.	29.8
501.5	577.	-59.6	927.	1009.	73.	19.6	756.	51.4
502	457.	-59.6	1197.	1349.	150.	34.2	779.	74.1
504	733.	-59.6	1421.	1697.	272.	83.9	435.	155.7
506	713.	-59.6	1567.	2169.	609.	179.0	1096.	278.0
526	711.	-57.6	146.	2277.	667.	102.0	1277.	274.8
526.5	647.	-57.6	1412.	2178.	665.	118.2	1060.	302.0
527	351.	-59.6	1447.	2156.	714.	147.3	924.	353.3
528	474.	-57.6	1758.	2276.	918.	172.0	1017.	441.8
528	347.	-59.6	1117.	2077.	954.	194.0	847.	489.9
528	728.	-59.6	590.	1854.	1084.	272.0	597.	554.0
528	727.	-59.6	377.	1453.	987.	267.0	667.	561.0
546	727.	-59.6	1357.	1712.	161.	41.9	970.	125.7
546	745.	-59.6	147.	1447.	313.	74.8	771.	272.9
546	478.	-59.6	244.	1724.	443.	147.7	459.	524.0
542	565.	-59.6	147.	1047.	00.	20.7	774.	49.1
546	467.	-59.6	1497.	2134.	544.	78.2	1377.	277.7
548	494.	-59.6	1377.	2134.	751.	151.7	950.	443.8
548	347.	-59.6	147.	1742.	787.	179.0	1042.	443.7
566	727.	-59.6	1357.	1597.	747.	51.4	860.	144.6
568	487.	-59.6	1107.	2159.	657.	102.2	1147.	274.0
568	447.	-59.6	177.	2710.	1079.	280.0	1757.	467.7
568	717.	-59.6	714.	1675.	1211.	276.0	774.	510.9

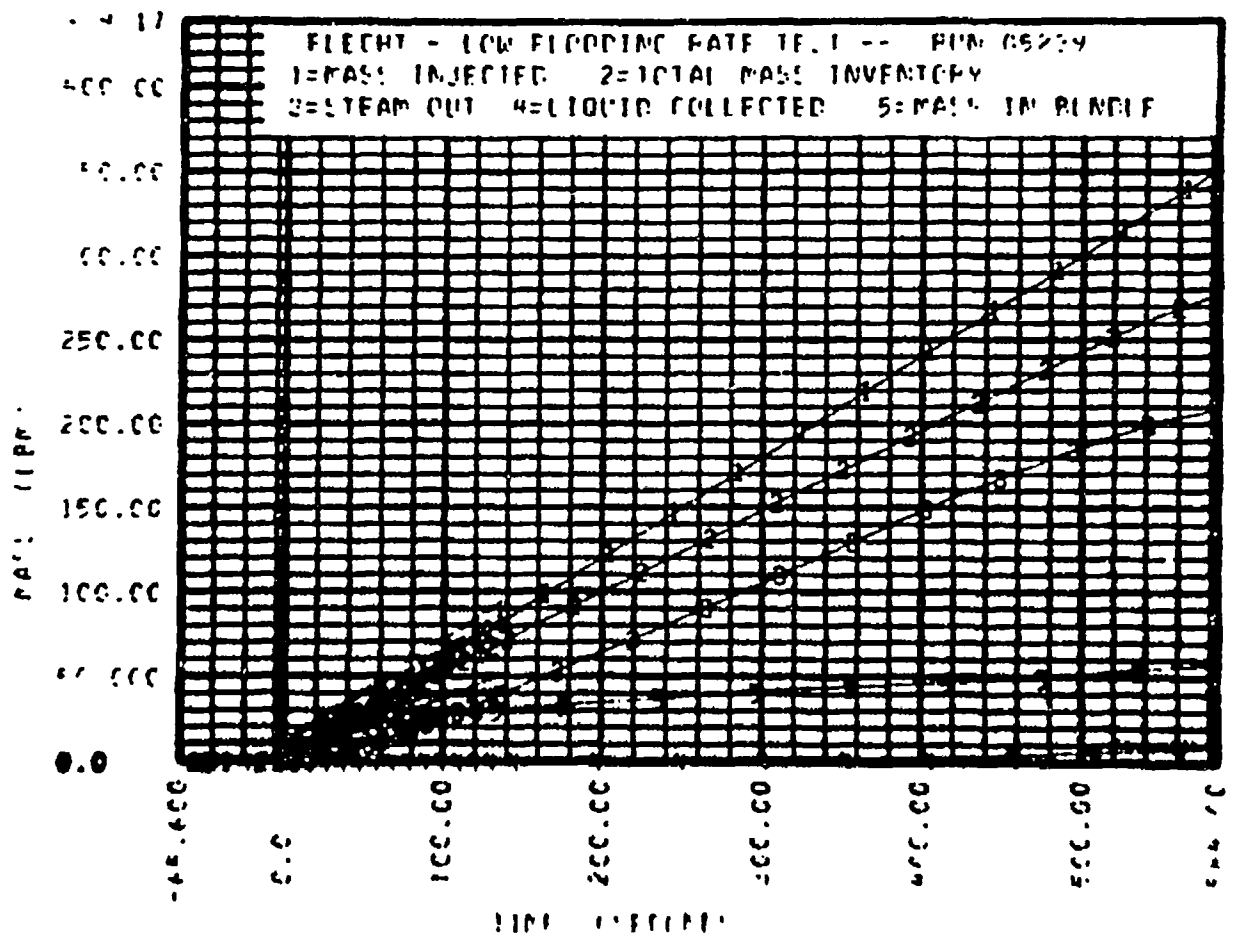


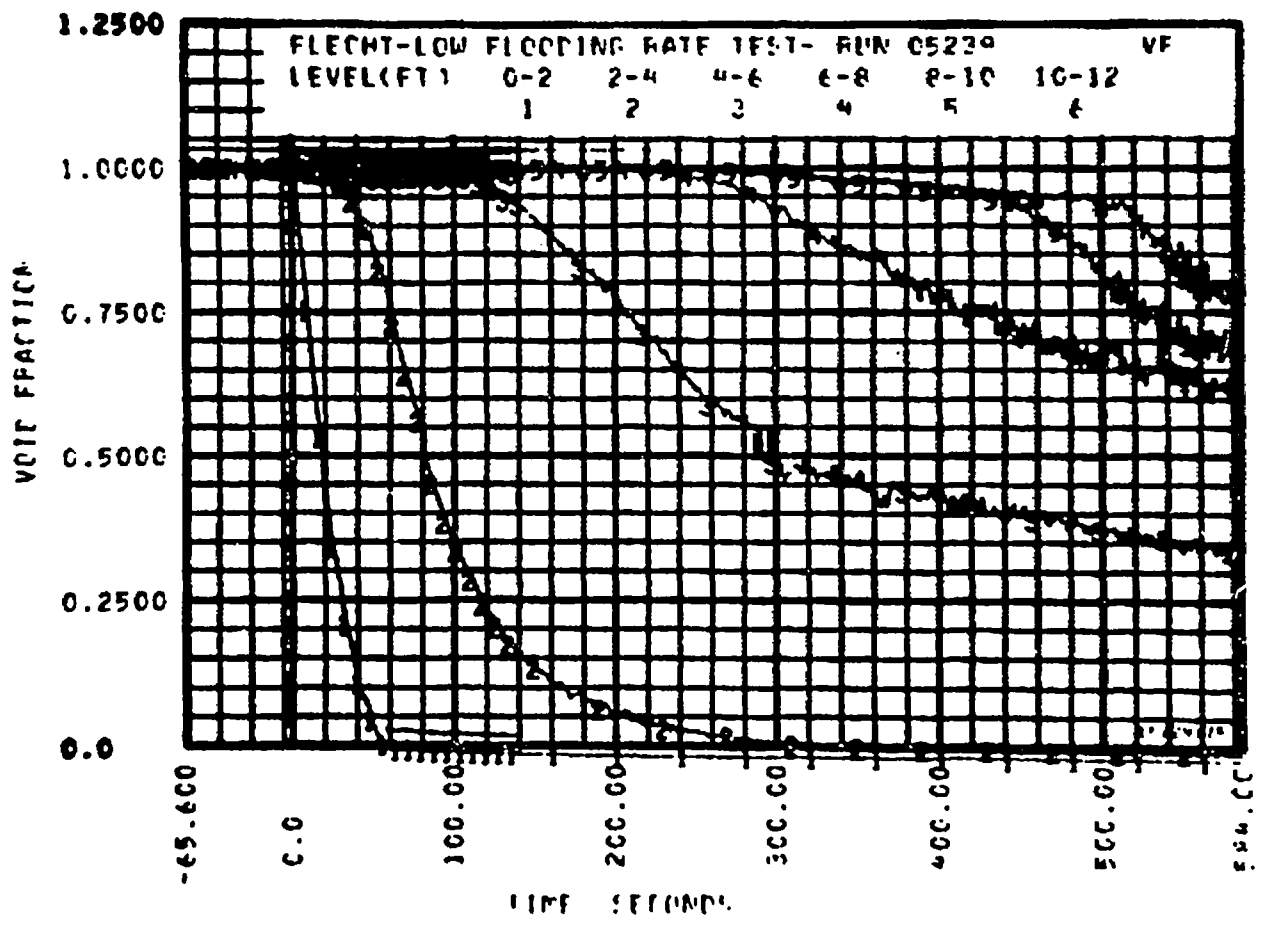
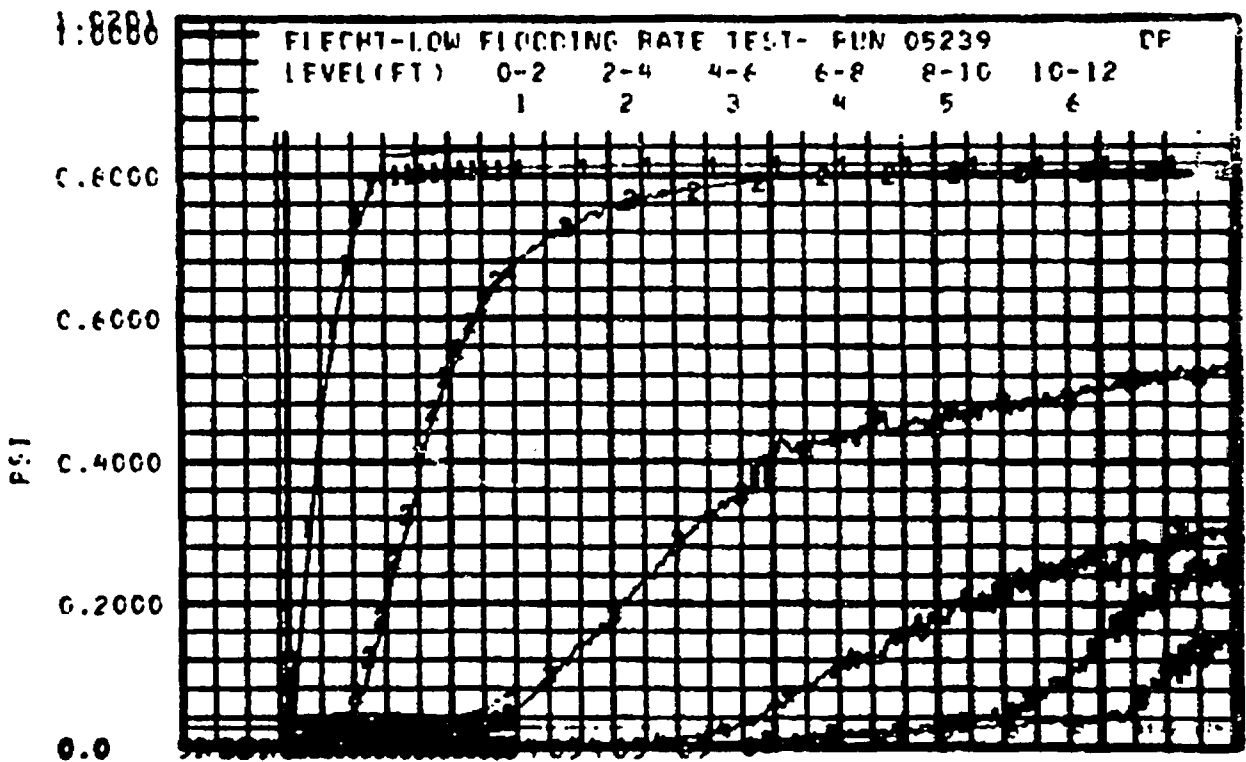


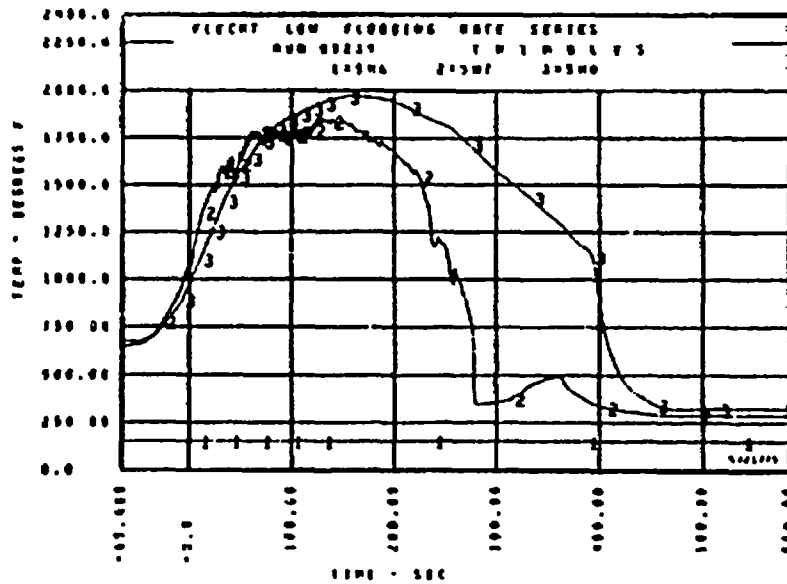
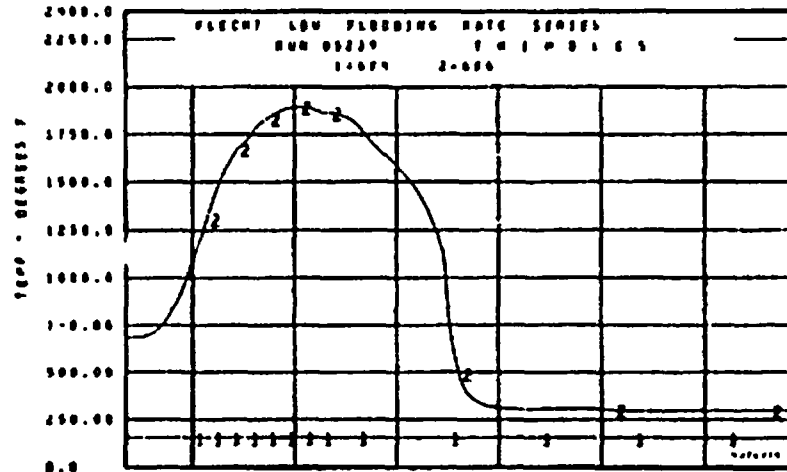
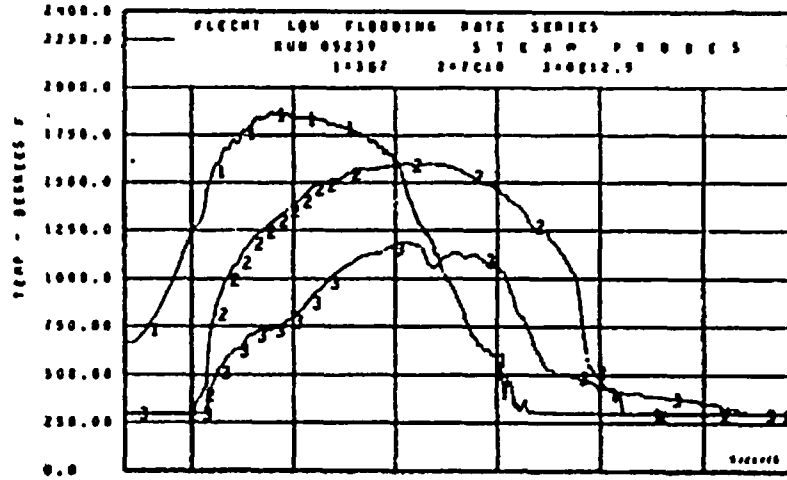


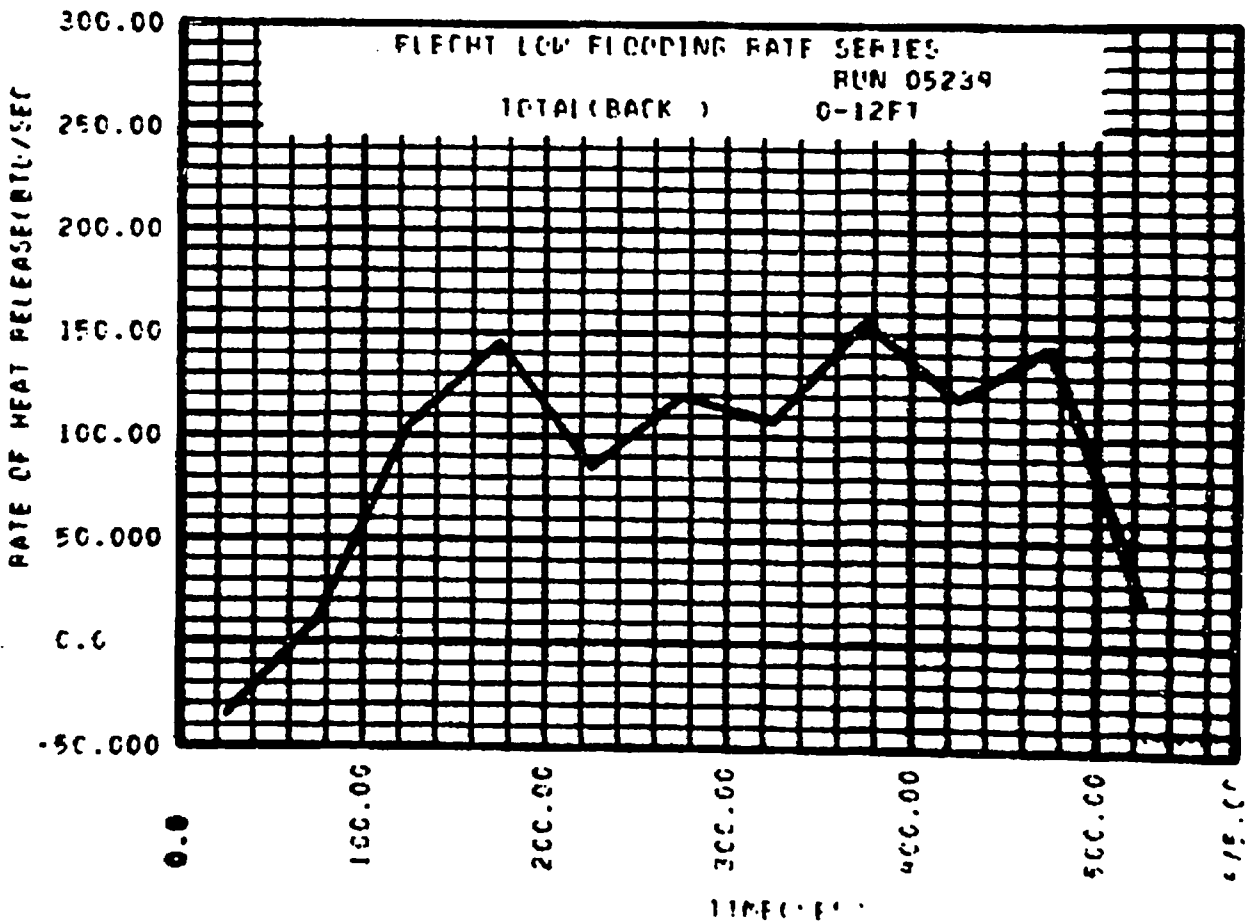
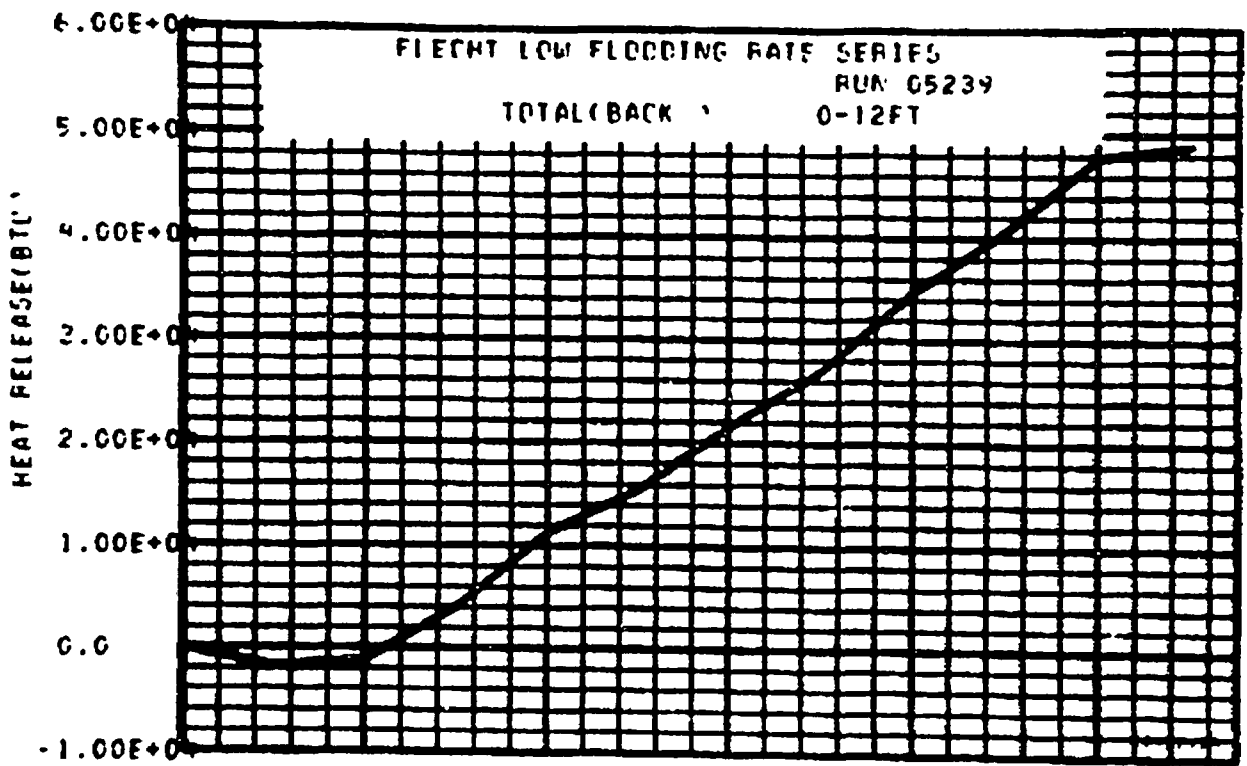












FLECHT - LOW FLOODING RATE TEST

SUMMARY SHEET

COSINE AXIAL POWER PROFILE

RUN NO. 05342

DATE: 5/21/75

A. RUN CONDITIONS

Upper Plenum Pressure, psia	<u>40</u>	
Initial Clad Temperature (6 Ft)°F At Flood	<u>1,601</u>	Rod T/C <u>4G6</u>
Rod Peak Power, kw/ft	<u>0.95</u>	
Flooding Rate, in/sec	<u>0.8</u>	
	<u>----</u>	
	<u>----</u>	
Coolant Temperature, °F	<u>248</u>	
Bundle Radial Power Profile	<u>FLECHT</u>	
Disconnected Rods	<u>7F</u>	

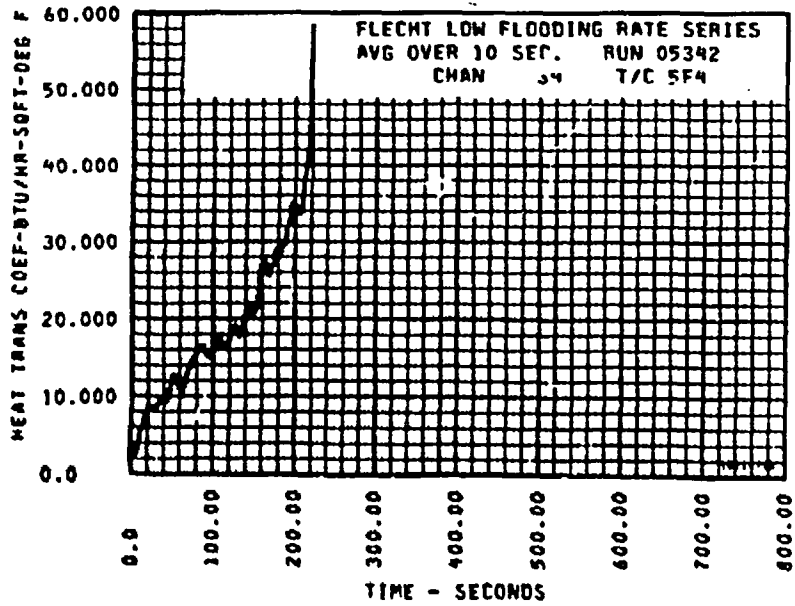
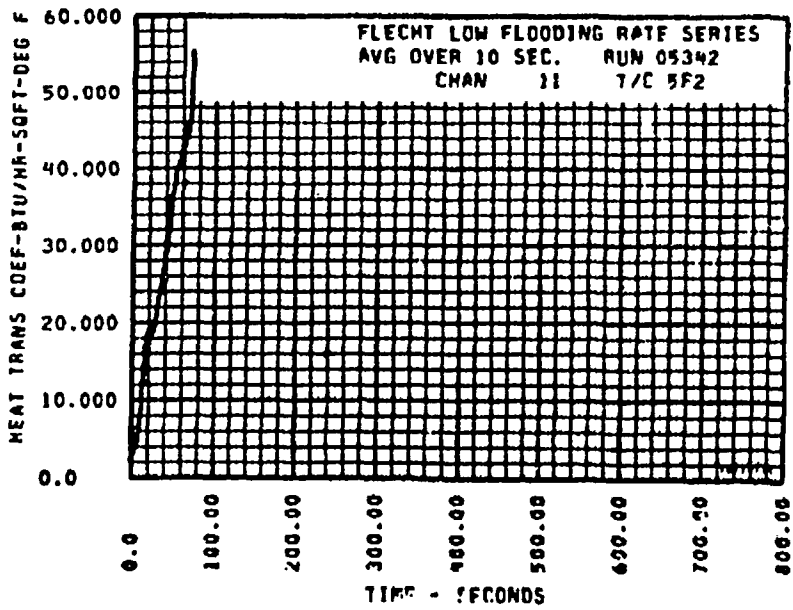
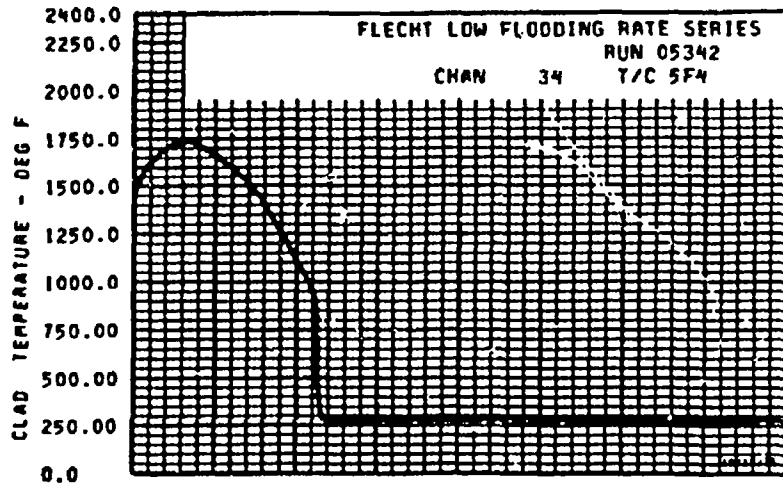
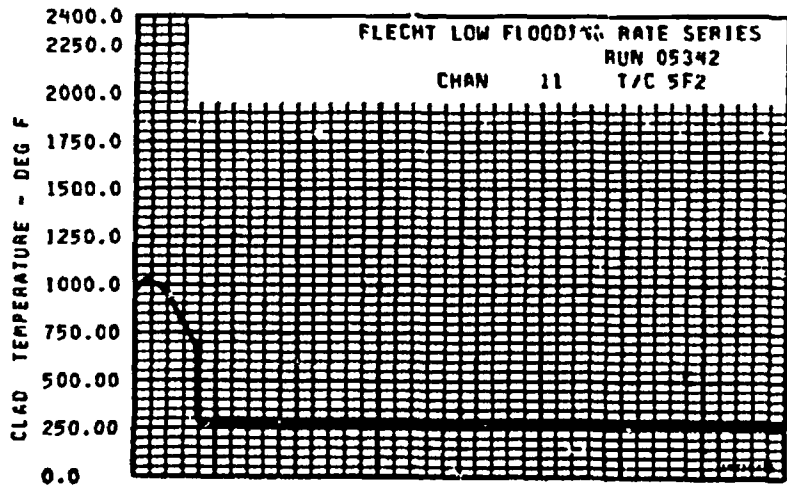
B. INITIAL HOUSING TEMPERATURE

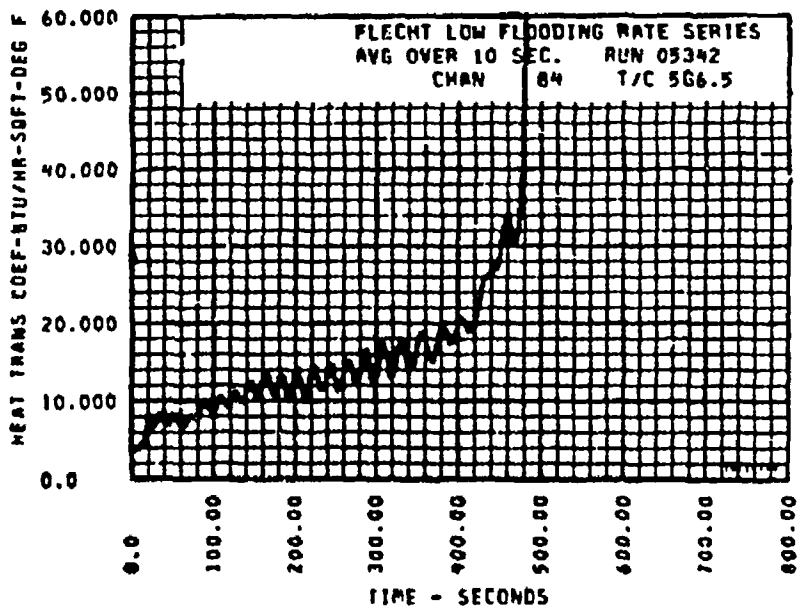
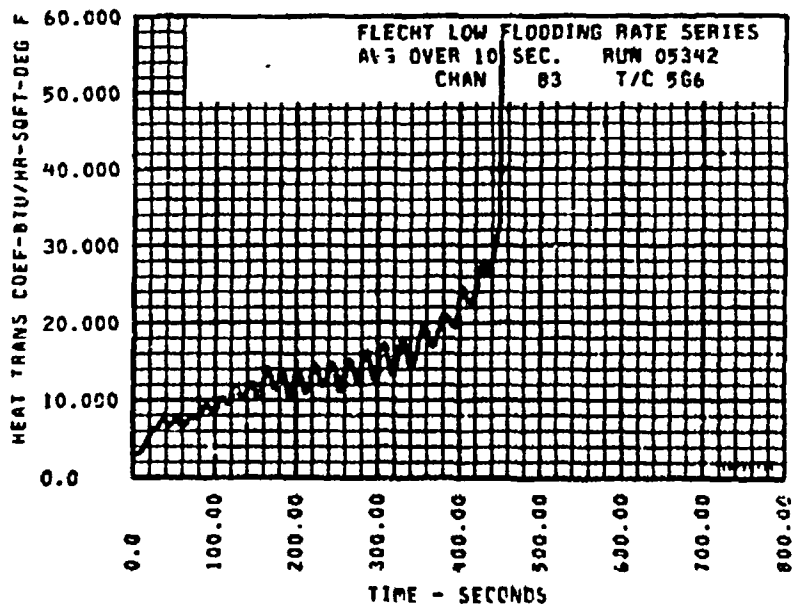
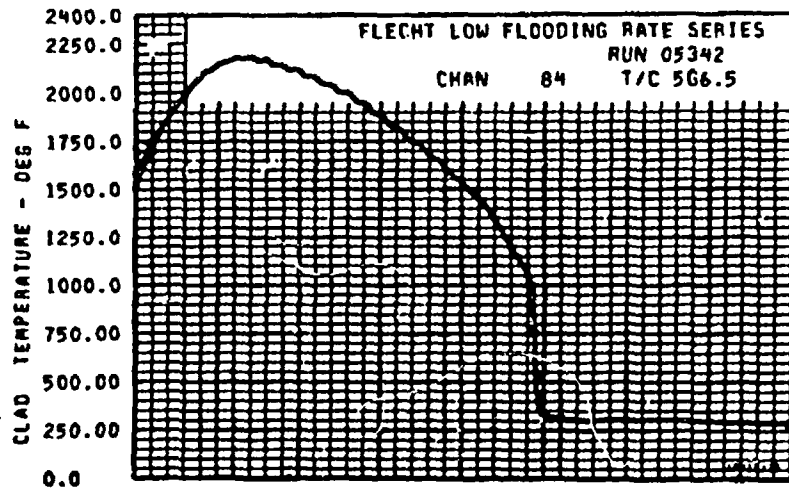
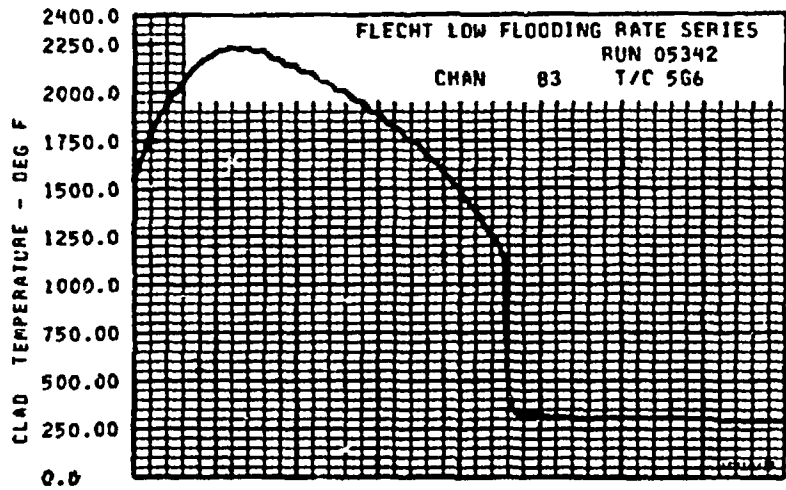
Back Side Elevation, Ft.	Temperature, °F
0	<u>279</u>
2	<u>578</u>
4	<u>777</u>
5.5	<u>806</u>
6	<u>809</u>
6.5	<u>668</u>
7	<u>679</u>
7.5	<u>707</u>
8	<u>777</u>
10	<u>574</u>
12	<u>296</u>
Average	<u>632</u>
Lower Plenum	<u>211</u>
Upper Plenum	<u>284</u>

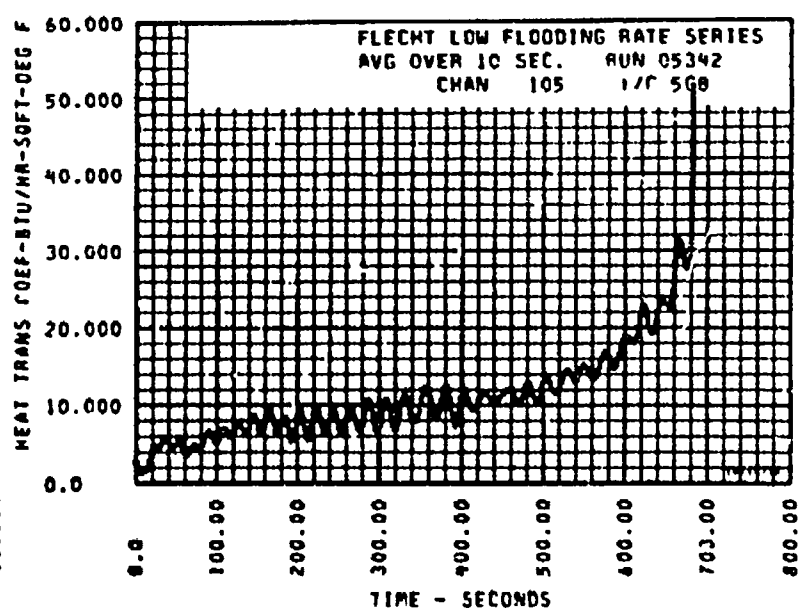
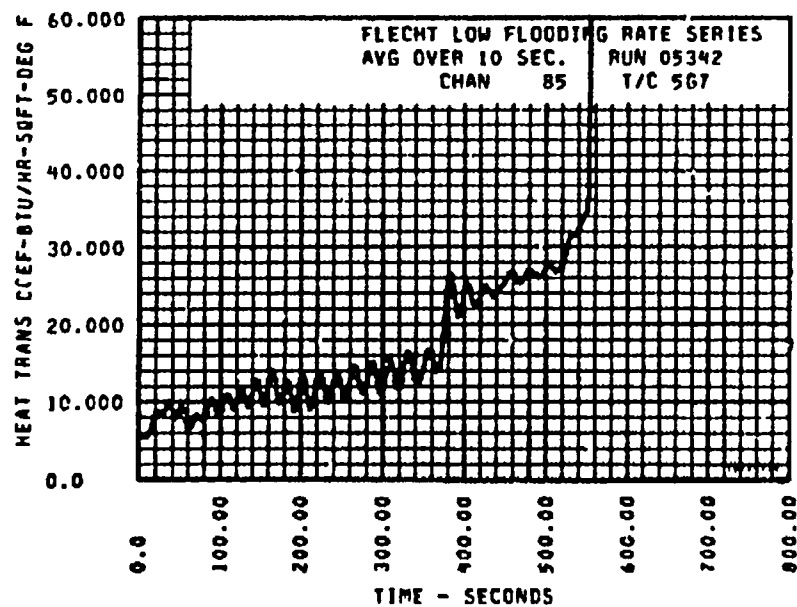
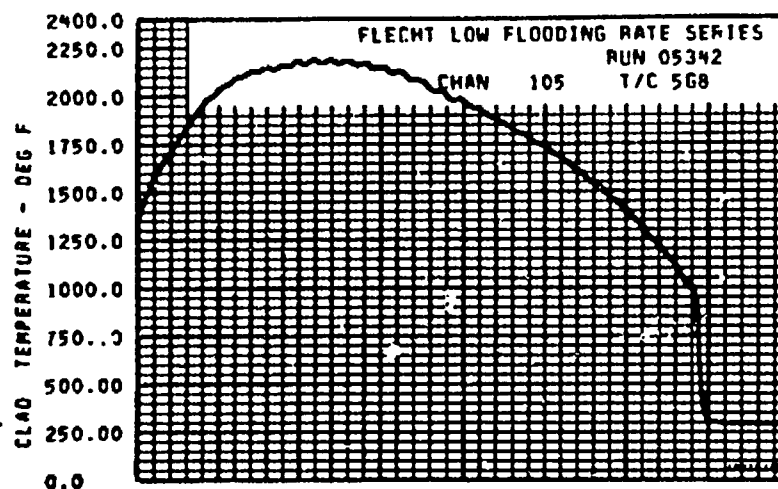
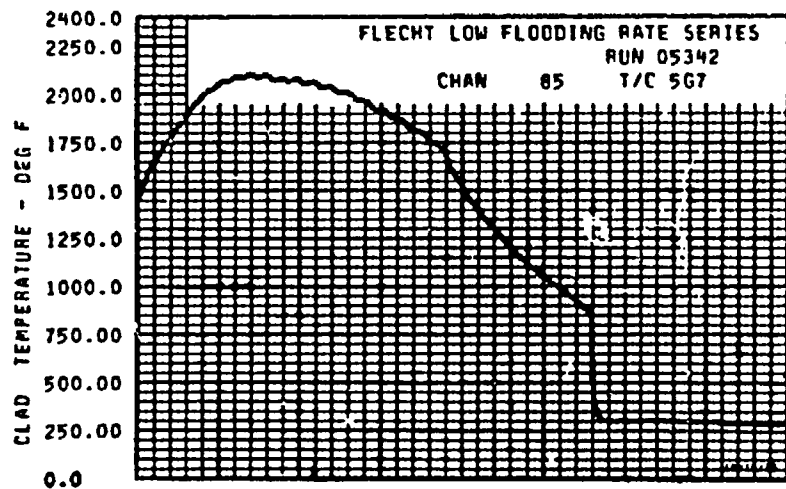
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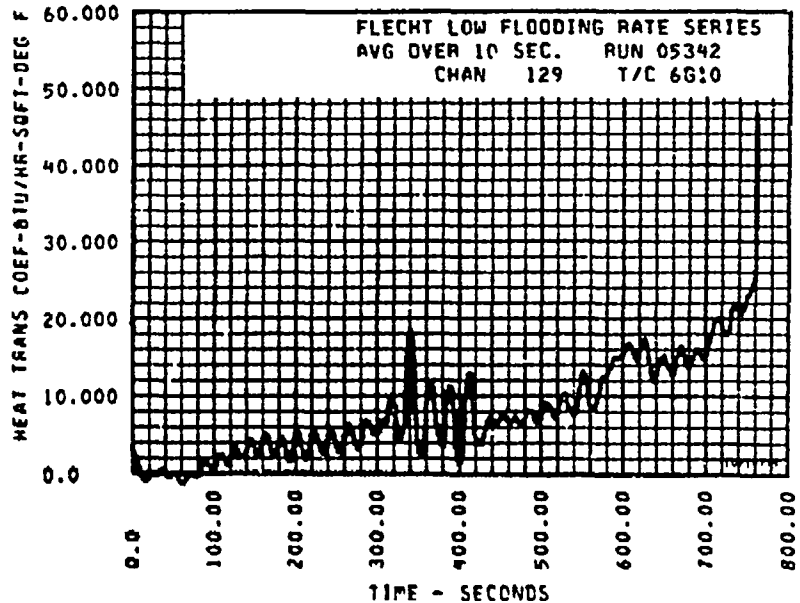
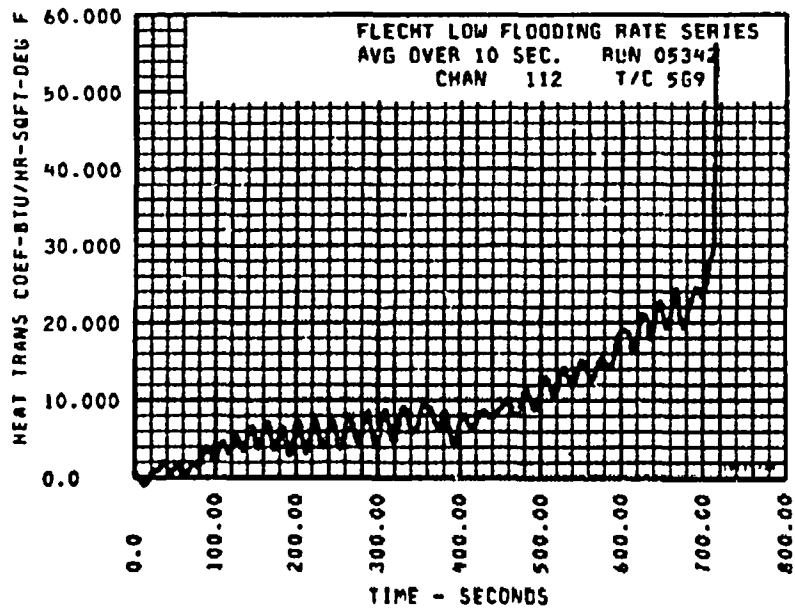
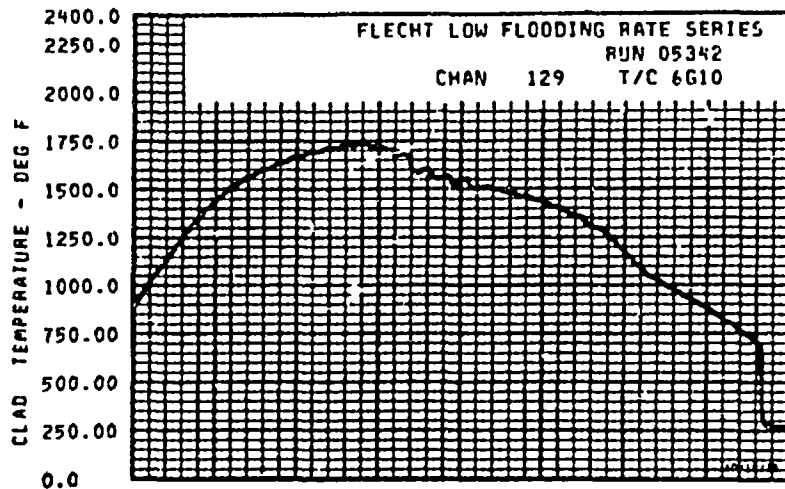
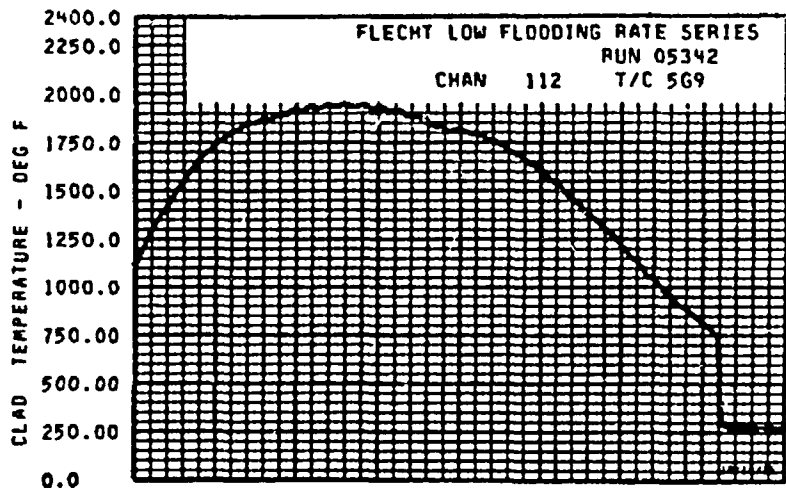
FLECHT-LAW FLOODING RATE AND THERMOCOUPLE DATA

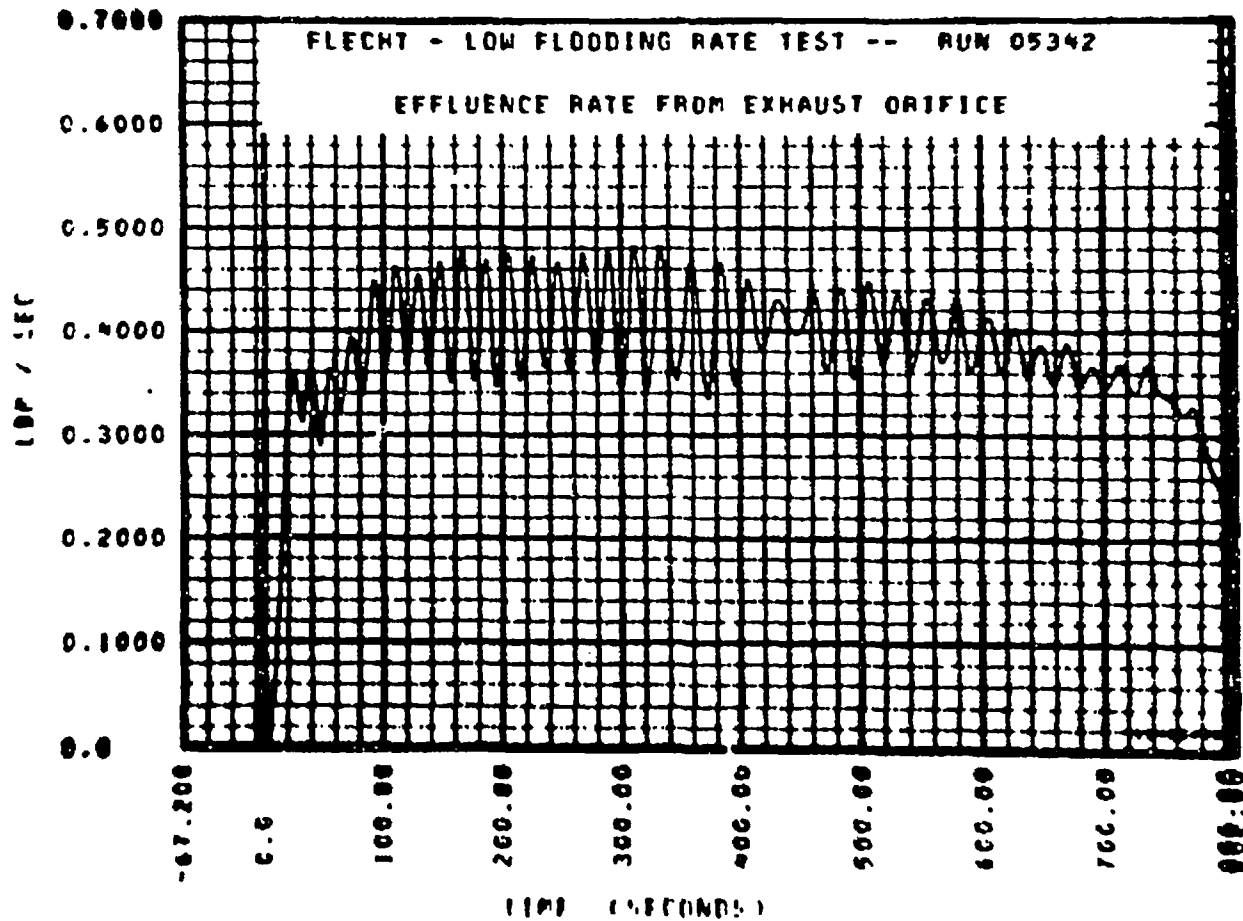
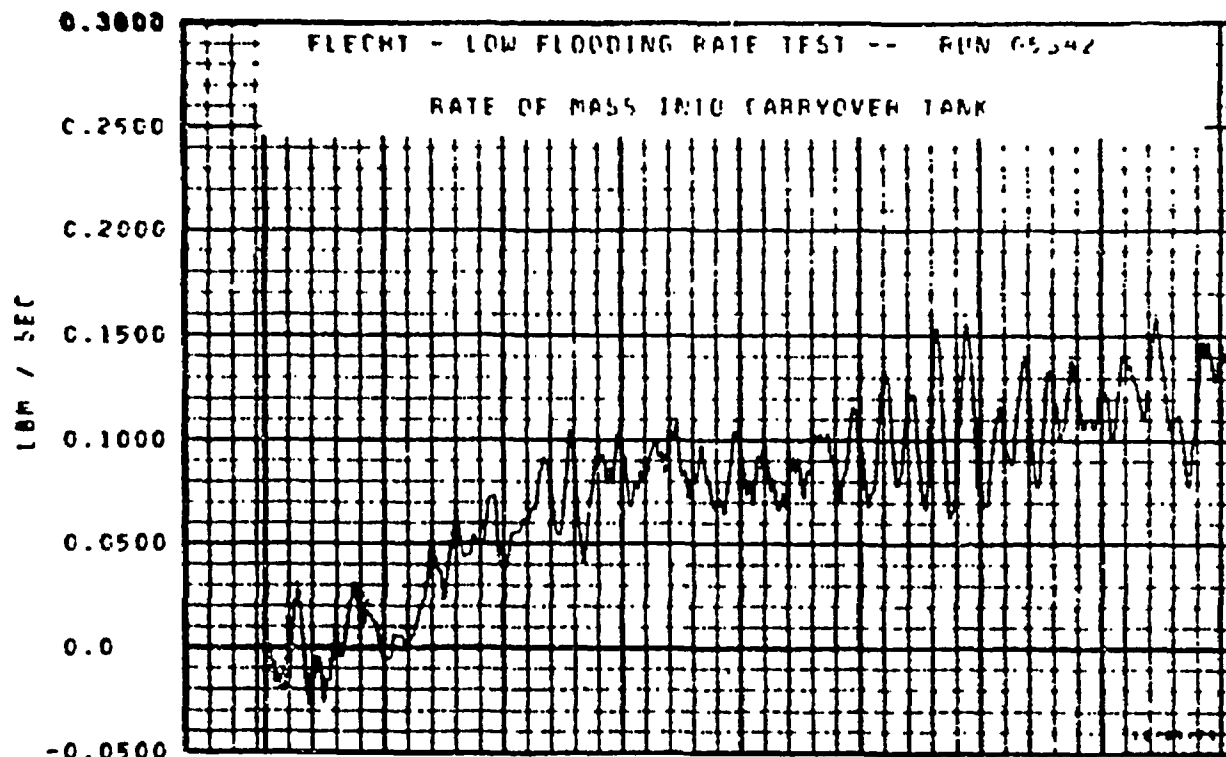
PROB/LEV	TEMPERATURE BY POINT IN (DEG.F)	TIME OF DROPP IN (SEC.)	INITIAL TEMPERATURE IN FLOOD (DEG.F)	RUN NUMBER MAXIMUM TEMPERATURE (DEG.F)	85342 TEMPERATURE IN SF (DEG.F)	TURBIDIMITY TIME (SEC.)	QUENCH TEMPERATURE (DEG.F)	QUENCH TIME (SEC.)
440.5	347.	-51.2	690.	664.	24.	6.7	435.	31.5
441	417.	-60.7	787.	742.	35.	8.6	475.	48.5
441.5	511.	-57.7	778.	811.	37.	12.0	649.	49.4
442	507.	-69.7	1008.	1049.	63.	15.6	778.	69.2
446	788.	-69.2	1466.	1739.	271.	65.6	416.	231.5
448	709.	-61.2	1601.	2174.	577.	118.0	1914.	175.8
878	519.	-63.7	1485.	2380.	685.	103.9	446.	457.8
878.5	524.	-57.7	1418.	2144.	726.	154.1	466.	541.7
877	598.	-60.7	1310.	1380.	581.	159.3	607.	612.9
878	537.	-53.7	1784.	2081.	707.	141.7	414.	694.7
879	501.	-63.7	138.	1867.	461.	240.0	414.	760.1
8710	771.	-67.7	764.	1557.	977.	182.0	774.	717.1
8711	769.	-61.7	597.	1494.	917.	224.3	471.	658.8
8712	145.	-57.7	777.	587.	374.	207.2	174.	664.7
878	0	0	0	0	0	0	0	0
878.5	177.	-67.7	427.	650.	71.	4.0	516.	37.5
871	196.	-67.7	401.	714.	77.	4.8	477.	44.9
871.5	0	0	0	0	0	0	0	0
872	577.	-63.7	371.	1024.	41.	17.0	504.	74.7
877	715.	-67.7	1254.	1774.	127.	44.0	774.	131.9
874	750.	-67.7	1461.	1741.	787.	57.6	474.	225.7
878	645.	-67.7	1544.	2194.	651.	171.2	447.	457.1
878	559.	-67.7	1549.	2234.	607.	120.7	1144.	456.8
878.5	476.	-67.7	1507.	2189.	697.	173.8	444.	487.5
877	542.	-60.7	1447.	2189.	671.	167.8	847.	551.6
878	542.	-51.7	174.	2194.	427.	218.7	404.	626.9
879	747.	-67.7	1117.	1747.	431.	258.7	778.	714.4
8711	747.	-67.7	847.	1737.	747.	222.8	477.	746.0
8712	760.	-67.7	457.	1157.	444.	242.8	444.	734.7
878	770.	-67.7	1787.	1917.	127.	74.4	474.	143.0
878	744.	-67.7	1537.	1827.	701.	47.4	847.	467.9
878.5	571.	-67.7	494.	1274.	707.	179.8	474.	774.1
878	777.	-67.7	1777.	1747.	47.	17.7	711.	49.1
878	771.	-67.7	1597.	2114.	577.	197.2	807.	655.7
878	711.	-61.7	1737.	2179.	481.	161.2	847.	480.5
8710	704.	-67.7	457.	1424.	657.	21.2	461.	716.5
878	724.	-67.7	1727.	1644.	244.	46.0	474.	217.4
878	479.	-67.7	140.	2144.	747.	141.0	1134.	451.8
878	372.	-67.7	474.	2707.	1077.	77.0	1014.	497.2
8710	747.	-67.7	751.	1864.	1024.	477.7	654.	779.7

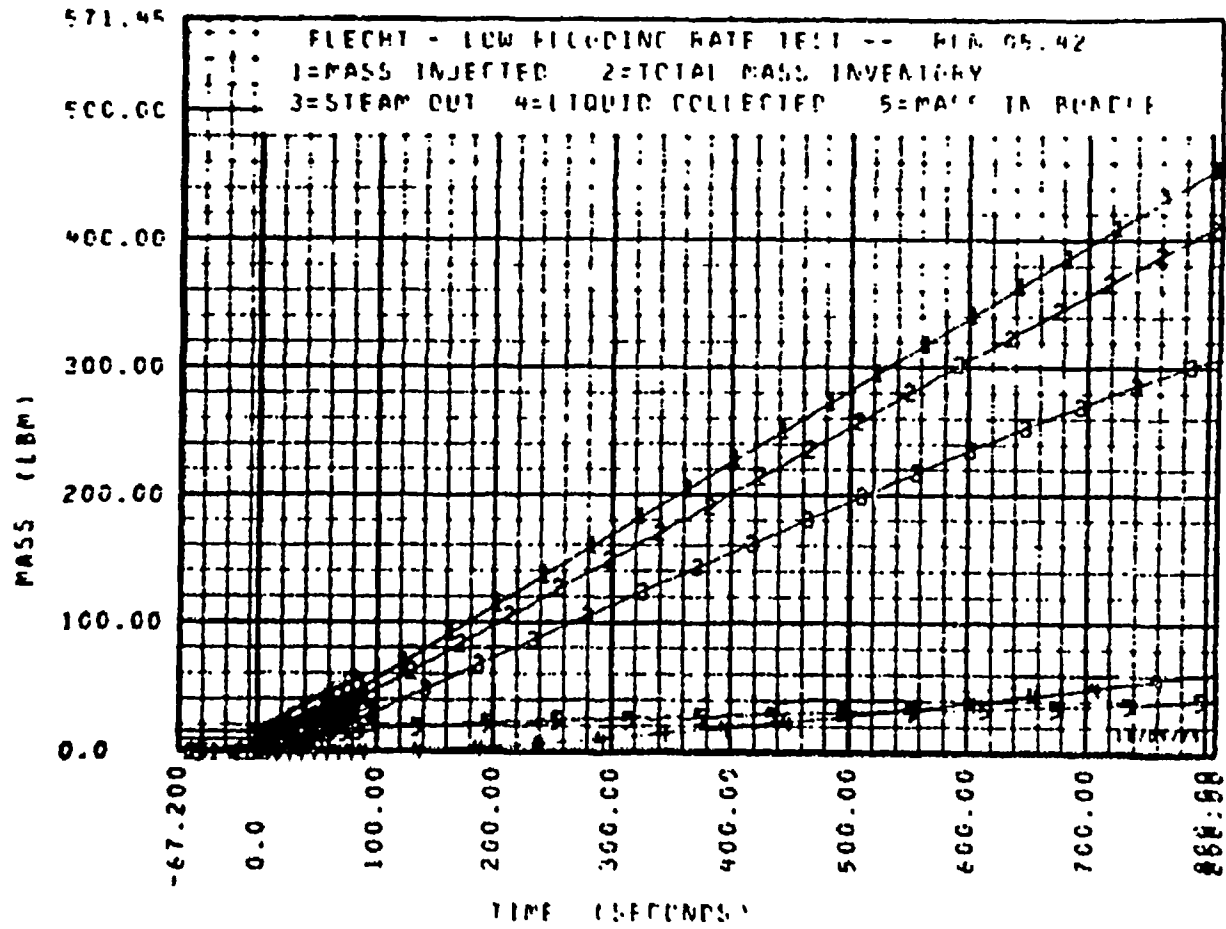




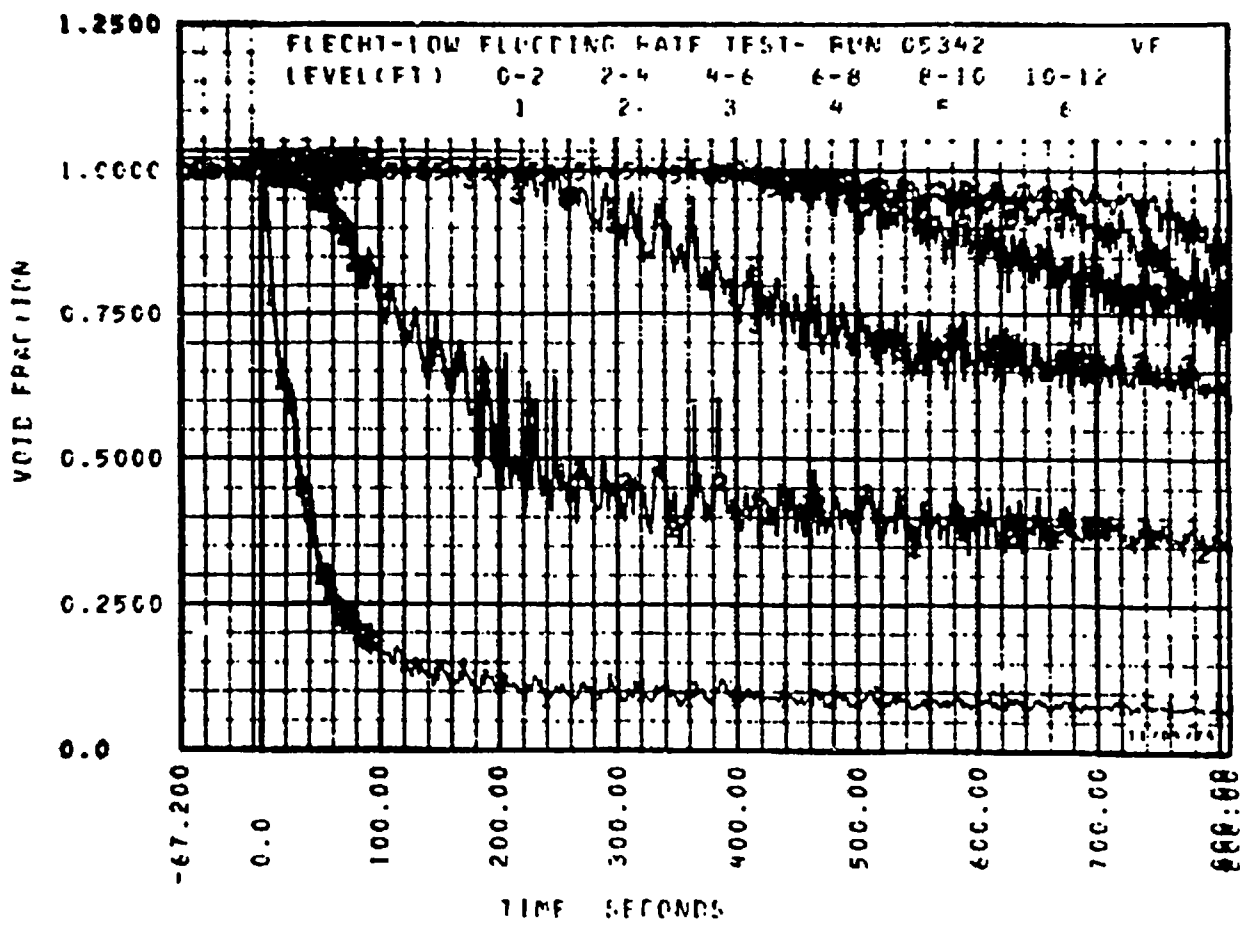
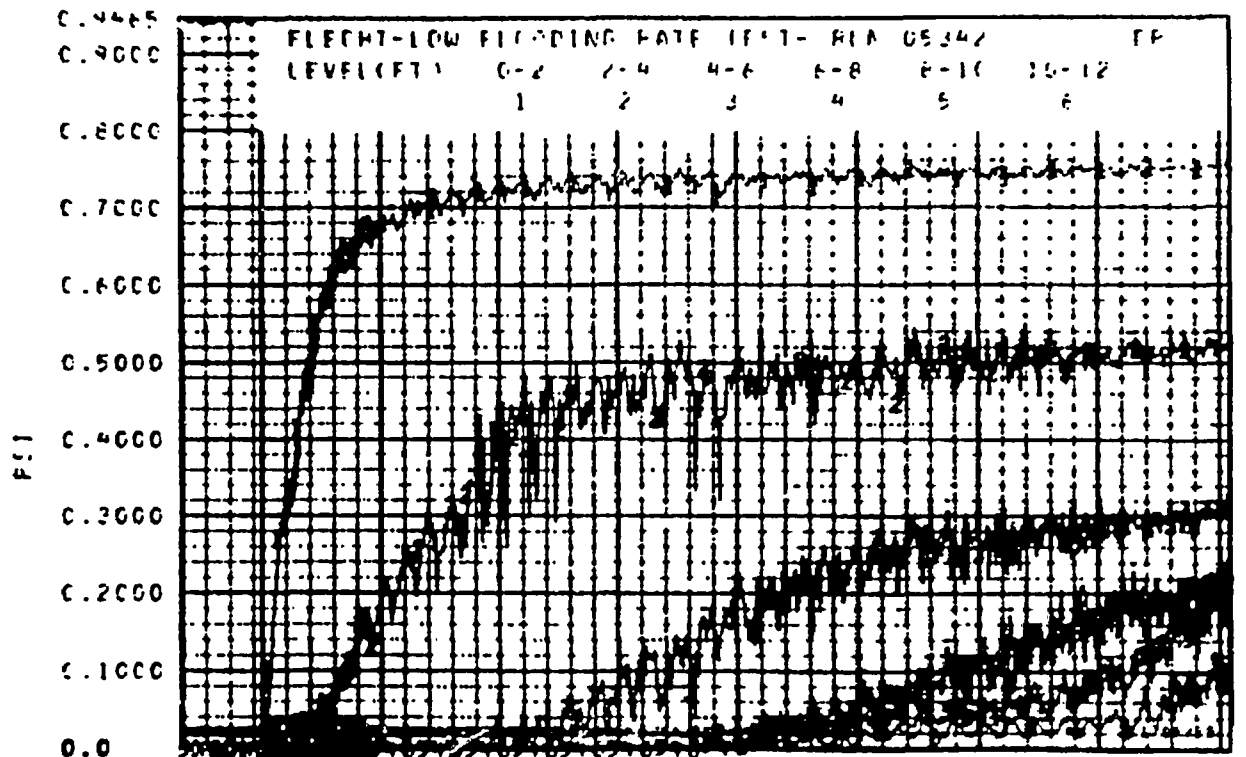


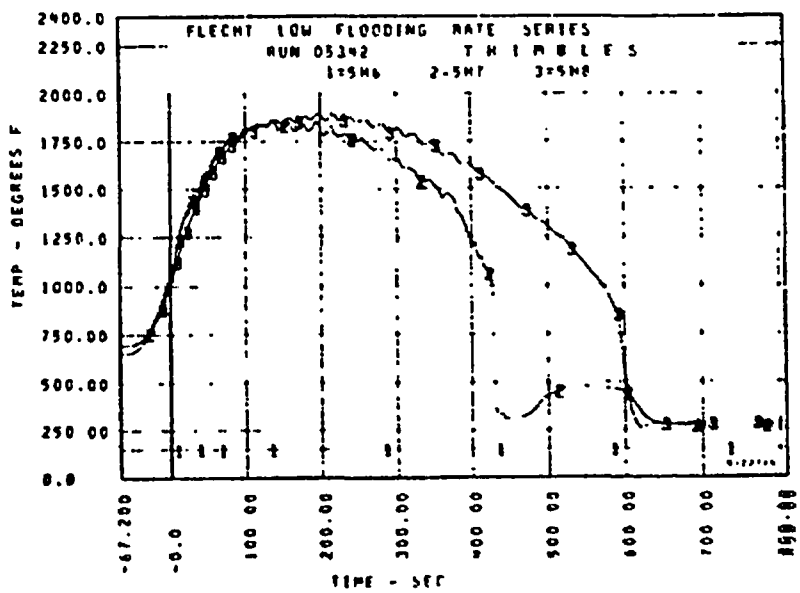
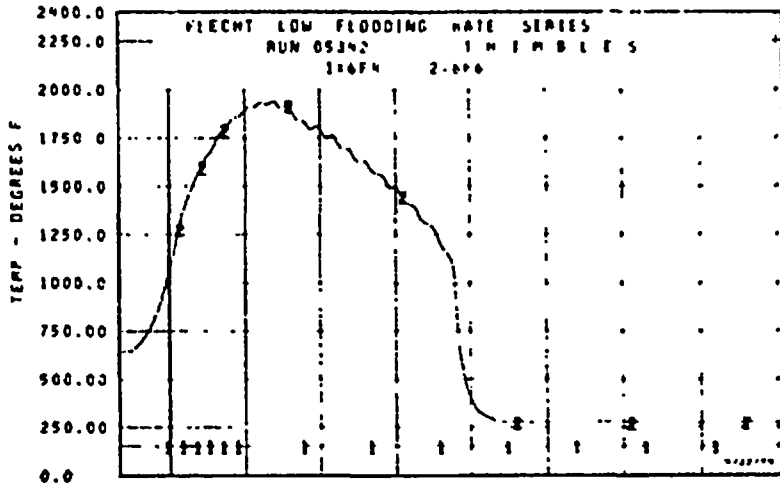
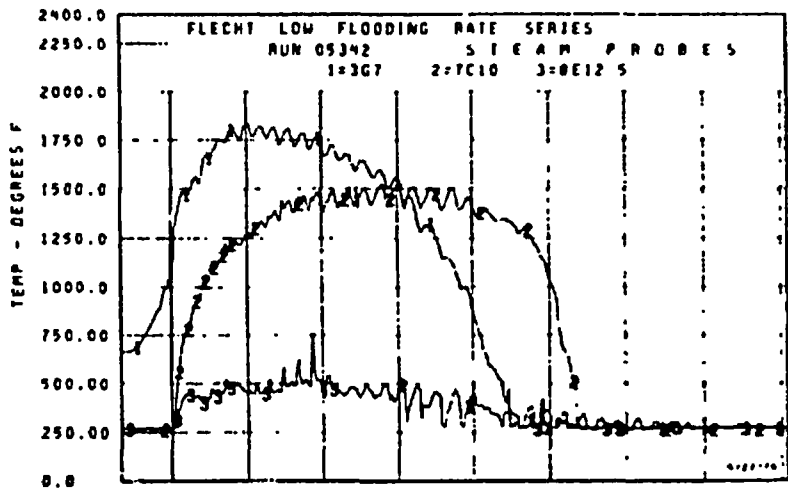


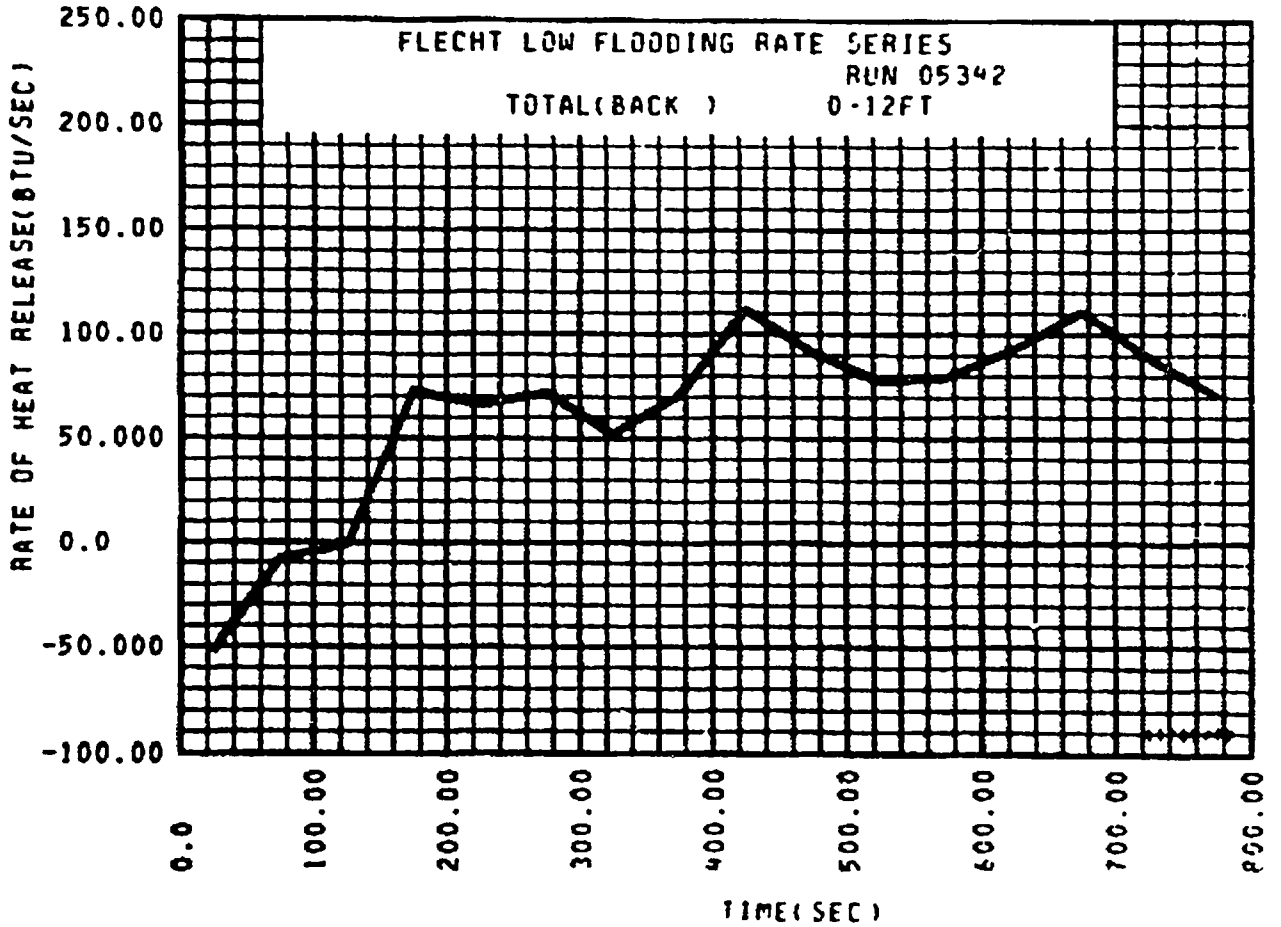
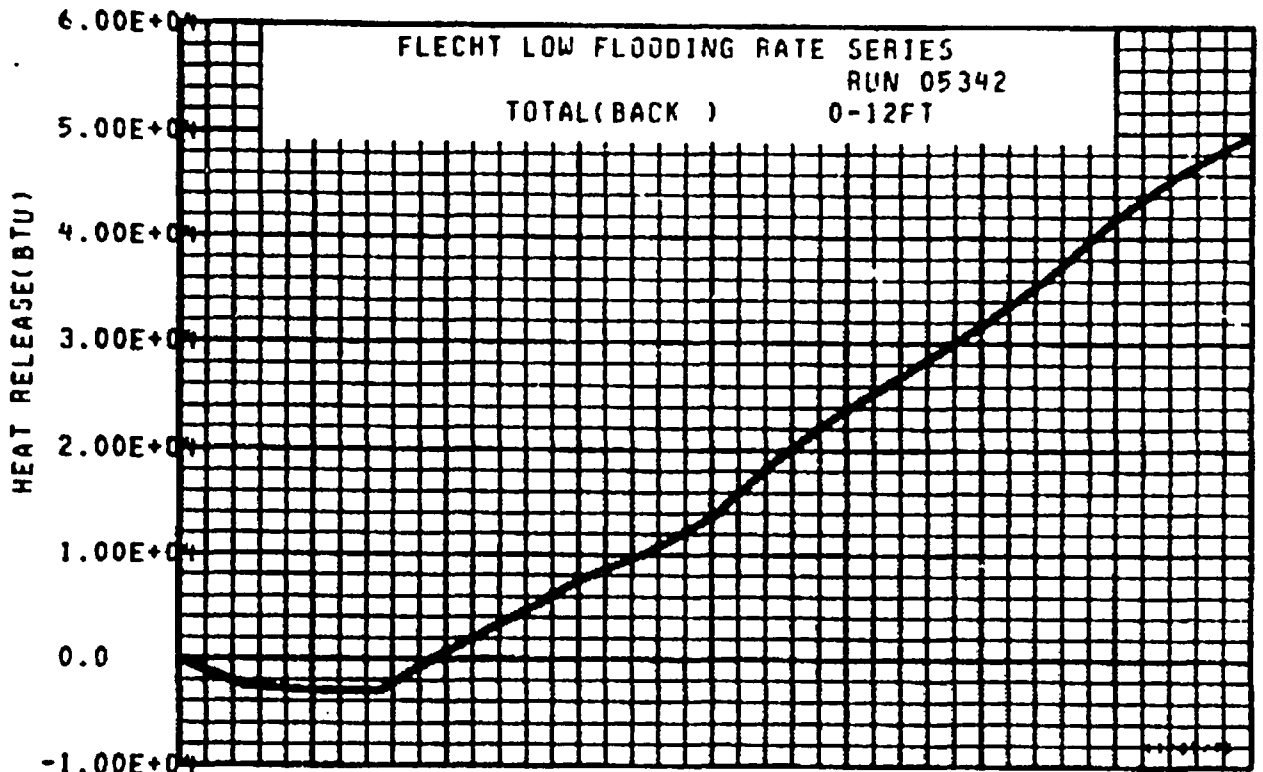




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FLECHT - LOW FLOODING RATE TEST

SUMMARY SHEET

COSINE AXIAL POWER PROFILE

RUN NO. 05543

DATE: 5/23/75

A. RUN CONDITIONS

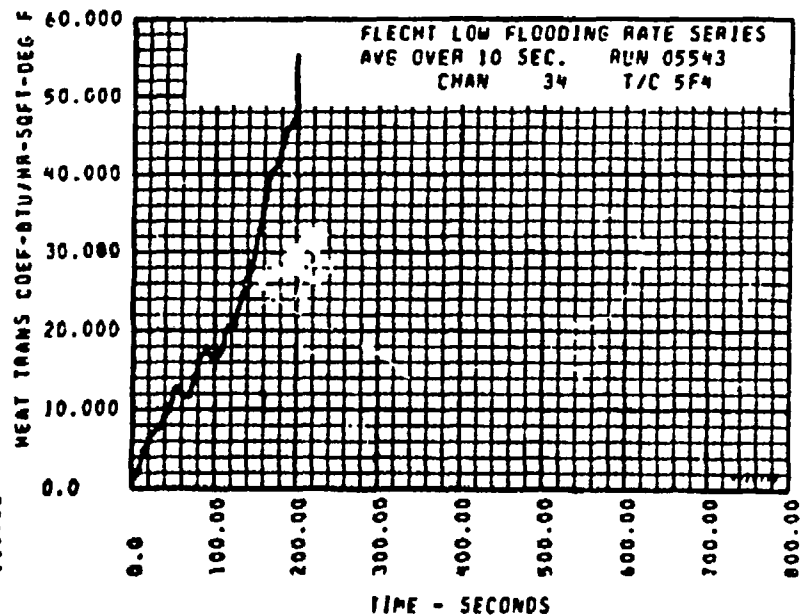
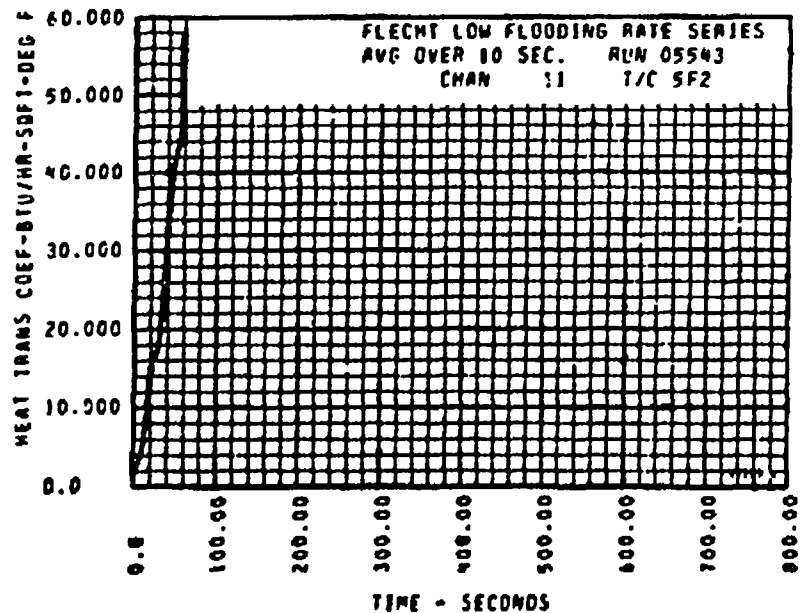
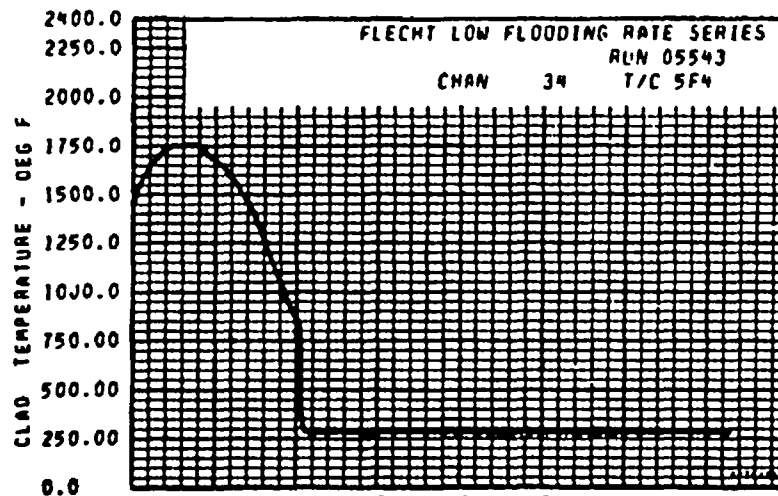
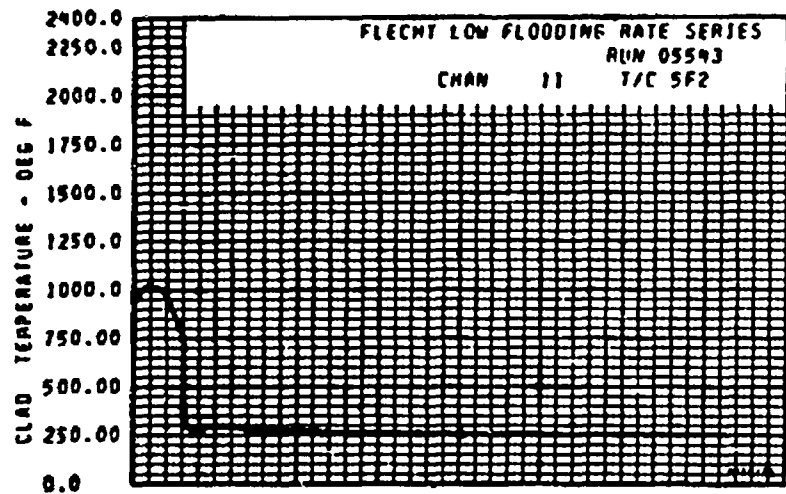
Upper Plenum Pressure, psia	<u>40</u>	
Initial Clad Temperature (6 Ft)°F At Flood	<u>1,600</u>	Rod T/C <u>4H6</u>
Rod Peak Power, kw/ft	<u>0.95</u>	
Flooding Rate, in/sec	<u>0.81</u>	
	<u>----</u>	
	<u>----</u>	
Coolant Temperature, °F	<u>188</u>	
Bundle Radial Power Profile	<u>FLECHT</u>	
Disconnected Rods	<u>7F</u>	

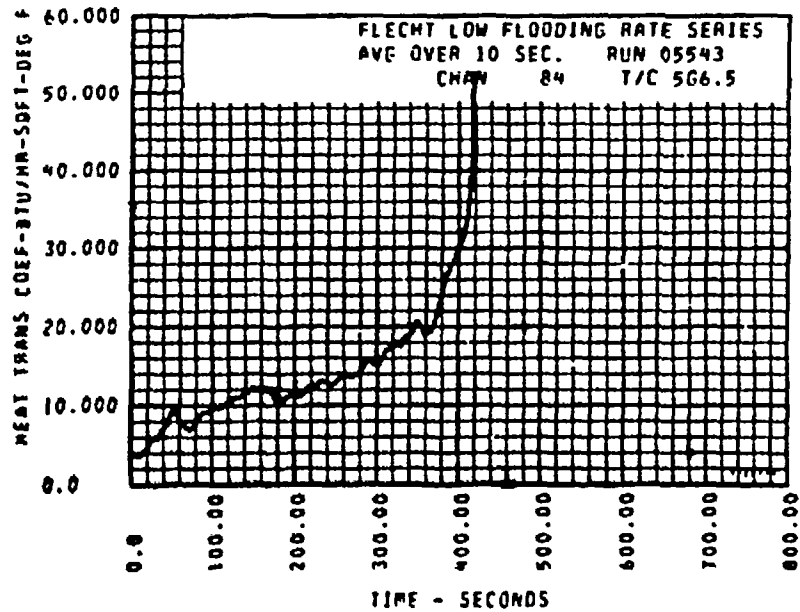
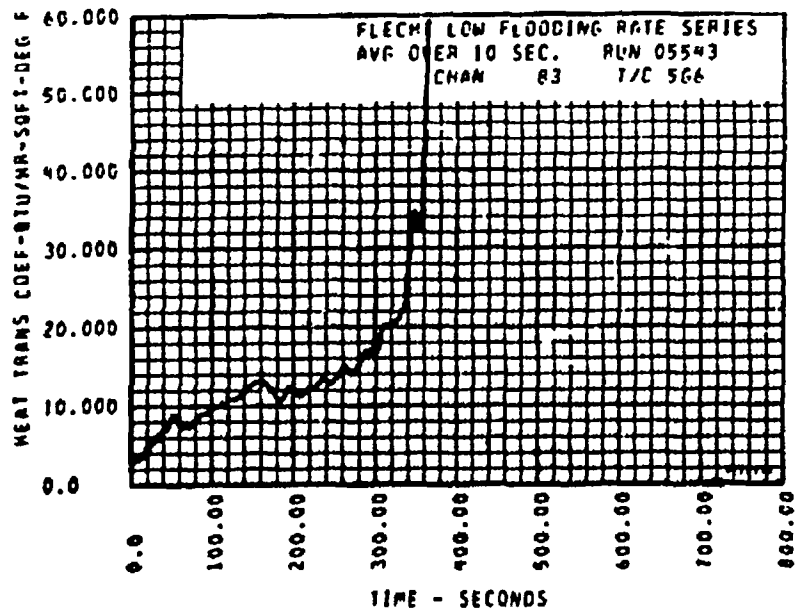
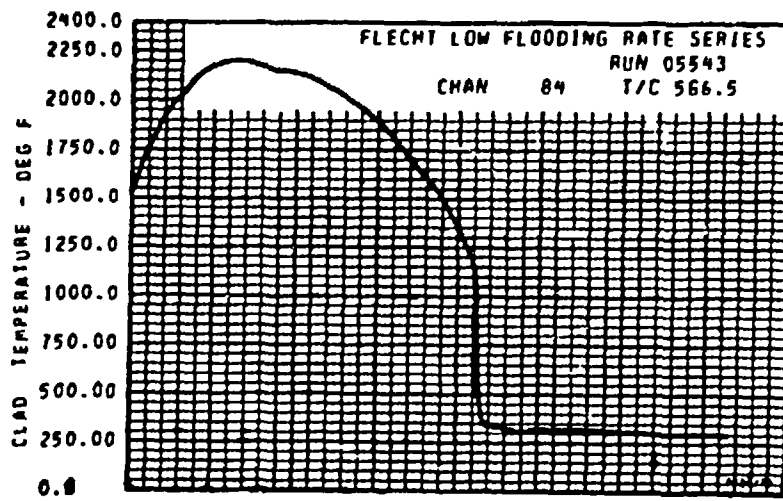
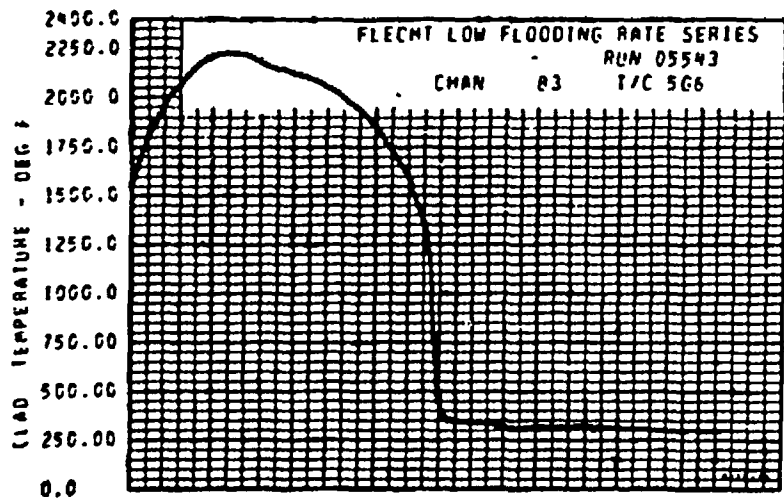
B. INITIAL HOUSING TEMPERATURE

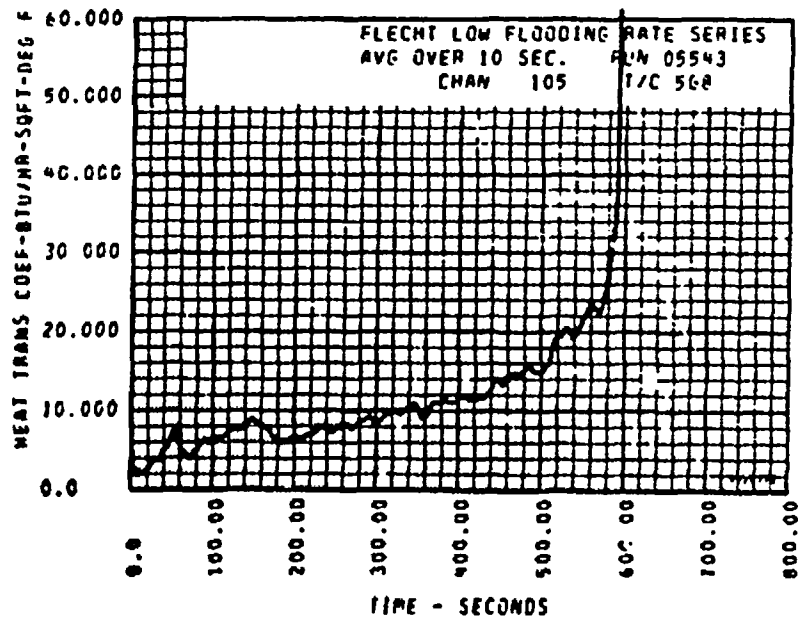
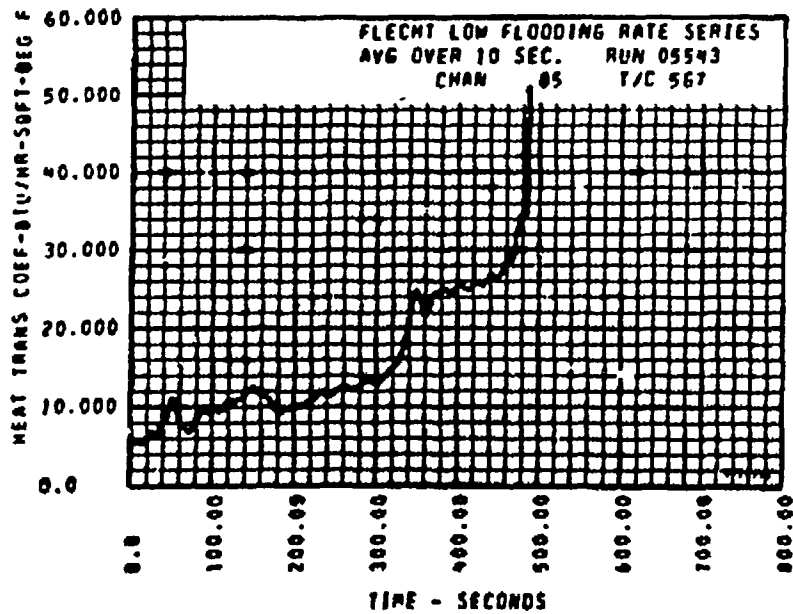
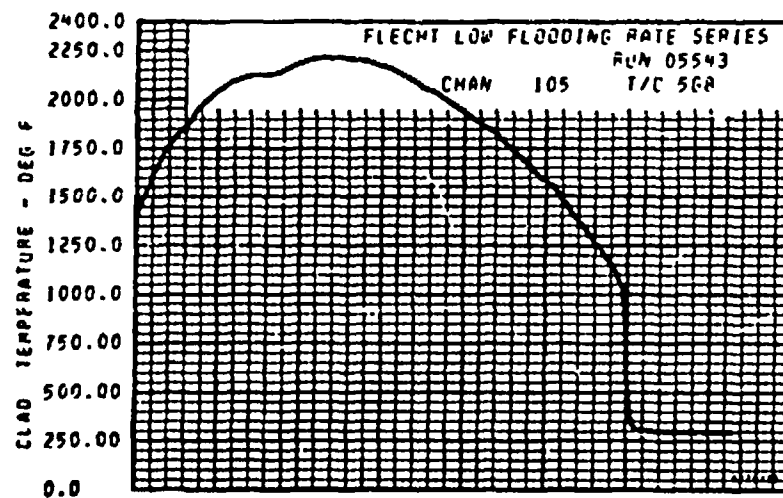
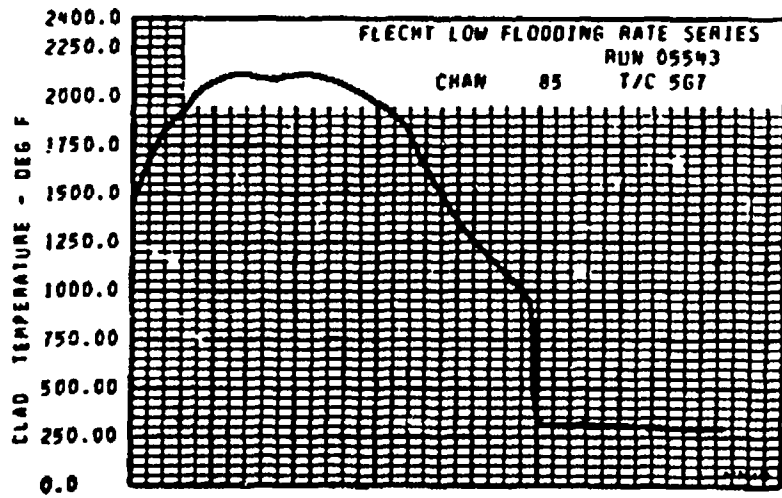
Back Side Elevation, Ft.	Temperature, °F
0	<u>262</u>
2	<u>578</u>
4	<u>774</u>
5.5	<u>804</u>
6	<u>817</u>
6.5	<u>666</u>
7	<u>676</u>
7.5	<u>700</u>
8	<u>769</u>
10	<u>603</u>
12	<u>306</u>
Average	<u>632</u>
Lower Plenum	<u>166</u>
Upper Plenum	<u>270</u>

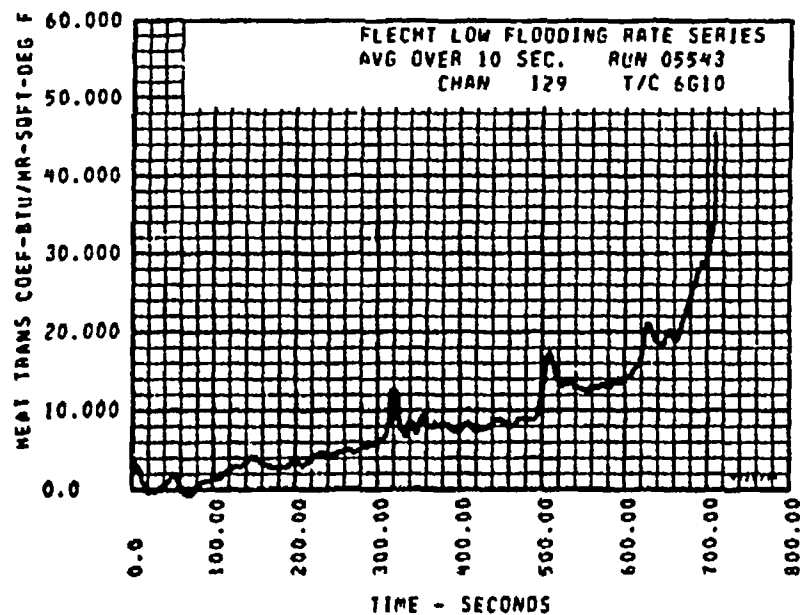
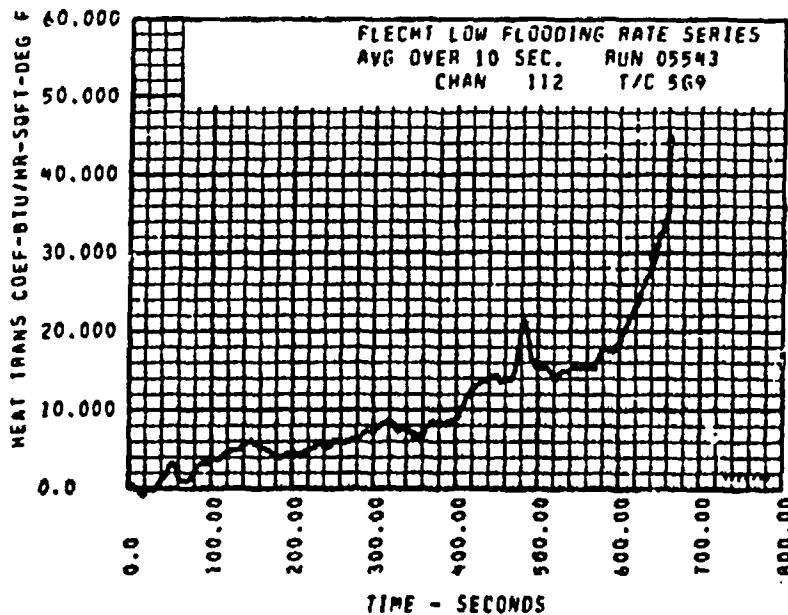
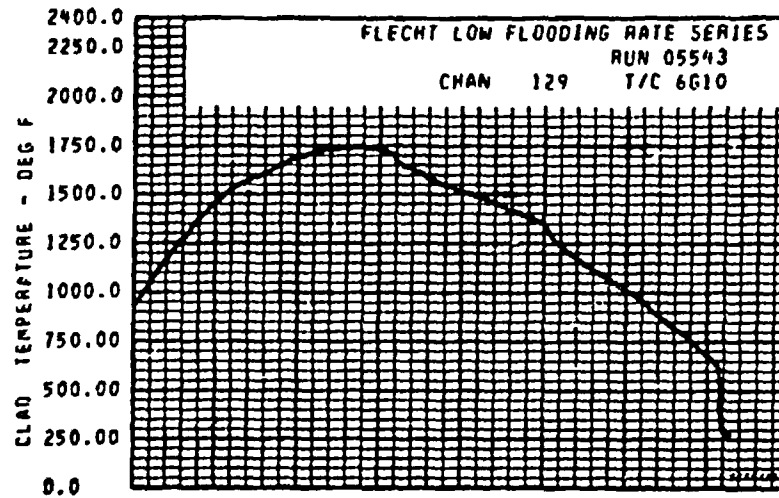
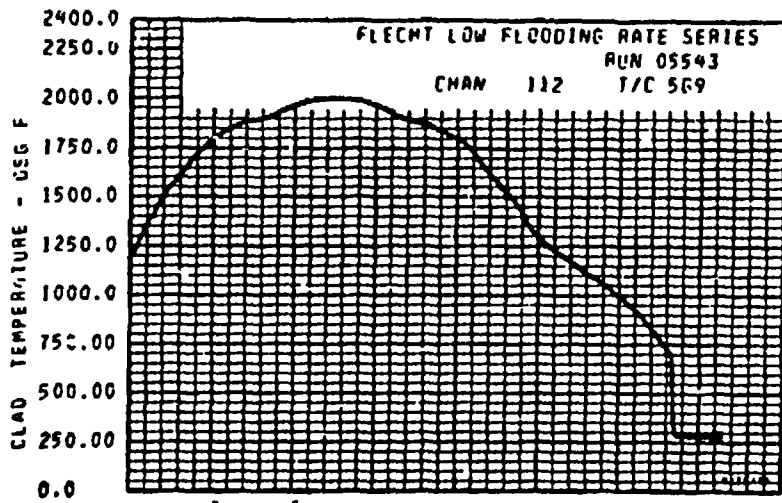
TEMPERATURE-LOW FLOWING RATE 230 TEMPERATURE 11.4

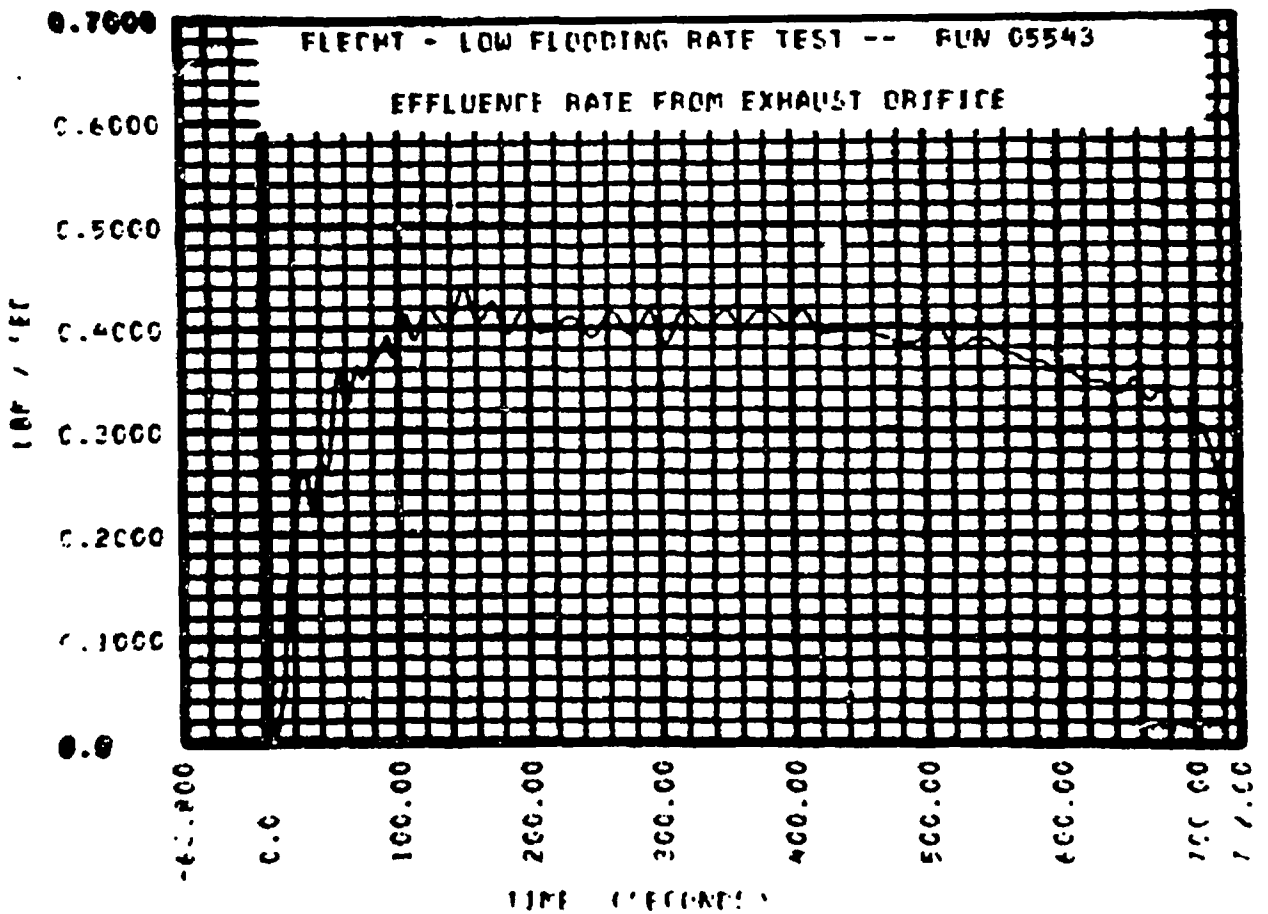
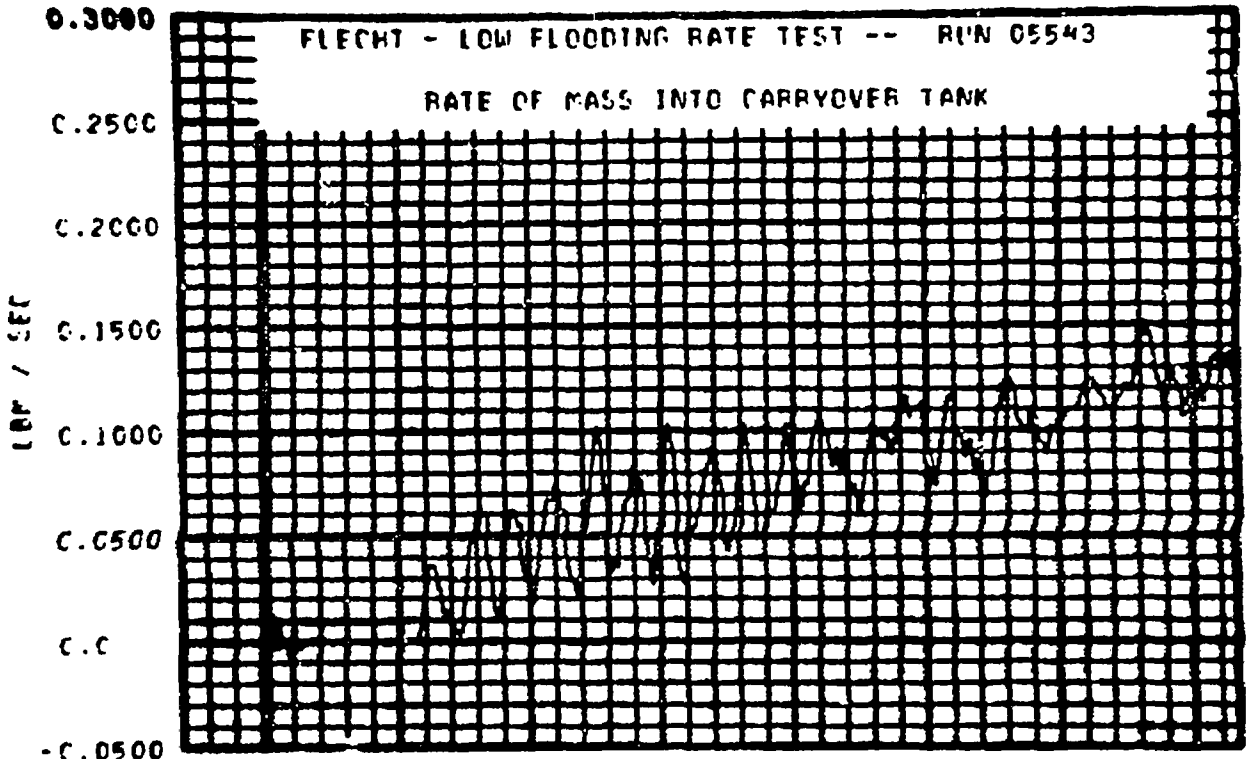
COND/ELF.	TEMPERATURE BY COND.	TEMPERATURE BY COND.	TEMPERATURE BY COND.	MAXIMUM TEMPERATURE	TEMPERATURE BY COND.	TEMPERATURE BY COND.	TEMPERATURE BY COND.	TEMPERATURE BY COND.
	(°C.)	(°C.)	(°C.)	(°C.)	(°C.)	(°C.)	(°C.)	(°C.)
4M0.3	117.	-4.4	627.	667.	49.	10.7	947.	26.0
4M1	123.	-4.4	644.	737.	52.	13.4	479.	37.6
4M1.5	171.	-4.4	767.	799.	57.	14.7	456.	44.5
4M2	147.	-4.4	974.	1079.	97.	23.0	799.	68.0
4M4	185.	-4.4	1461.	1774.	117.	22.0	947.	286.6
4M6	210.	-4.4	1686.	2277.	162.	119.0	712.	484.6
8M5	174.	-4.4	1401.	2117.	127.	111.0	1817.	247.7
8M6.3	171.	-4.4	1464.	2138.	131.	140.0	177.	461.7
8M7	169.	-4.4	1464.	1981.	139.	170.0	754.	571.4
8M8	172.	-4.4	1374.	2184.	176.	202.0	306.	476.7
8M9	165.	-4.4	1107.	1987.	180.	254.0	712.	668.7
8M10	171.	-4.4	930.	1675.	184.	220.0	807.	558.7
8M11	227.	-4.4	944.	1974.	199.	380.0	664.	577.7
8M12	170.	-4.4	158.	147.	194.	378.0	237.	464.6
8M13	187.	-4.4	473.	679.	6.	7.0	427.	4.1
8M14	171.	-4.4	617.	667.	37.	9.2	479.	24.3
8M15	169.	-4.4	644.	735.	41.	12.4	479.	31.9
8M16	177.	-4.4	741.	1020.	47.	17.7	747.	61.5
8M17	176.	-4.4	1147.	1797.	146.	47.7	761.	129.7
8M18	170.	-4.4	1457.	1764.	183.	48.6	712.	234.7
8M19	179.	-4.4	1547.	2214.	148.	171.0	1774.	177.4
5M6	176.	-4.4	1567.	2217.	167.	117.0	1147.	169.7
5M6.5	167.	-4.4	1570.	2207.	177.	170.0	1041.	627.4
5M7	167.	-4.4	1401.	1984.	184.	177.0	977.	491.4
5M8	114.	-4.4	1424.	2214.	181.	277.0	647.	536.7
5M9	167.	-4.4	1194.	2193.	190.	247.0	617.	666.7
5M11	167.	-4.4	68.	1474.	206.	216.0	517.	716.7
5M12	174.	-4.4	507.	1144.	149.	170.0	457.	777.4
1M6	111.	-4.4	1770.	1967.	163.	47.4	777.	168.3
1M6	111.	-4.4	1510.	1867.	174.	47.4	479.	245.6
1M11	111.	-4.4	117.	1307.	174.	177.0	430.	692.0
3M2	157.	-4.4	790.	1064.	86.	71.0	747.	61.6
4M6	167.	-4.4	1410.	2187.	172.	198.0	104.	289.1
4M8	170.	-4.4	1420.	2047.	181.	186.0	71.	496.7
4M11	179.	-4.4	971.	1659.	187.	174.0	194.	498.7
8M6	177.	-4.4	1746.	1867.	274.	44.4	747.	198.7
8M6	177.	-4.4	1620.	2287.	189.	179.0	1867.	187.4
8M11	181.	-4.4	1357.	2147.	197.	180.0	1775.	612.4
8M12	177.	-4.4	457.	1870.	182.	276.0	477.	786.7

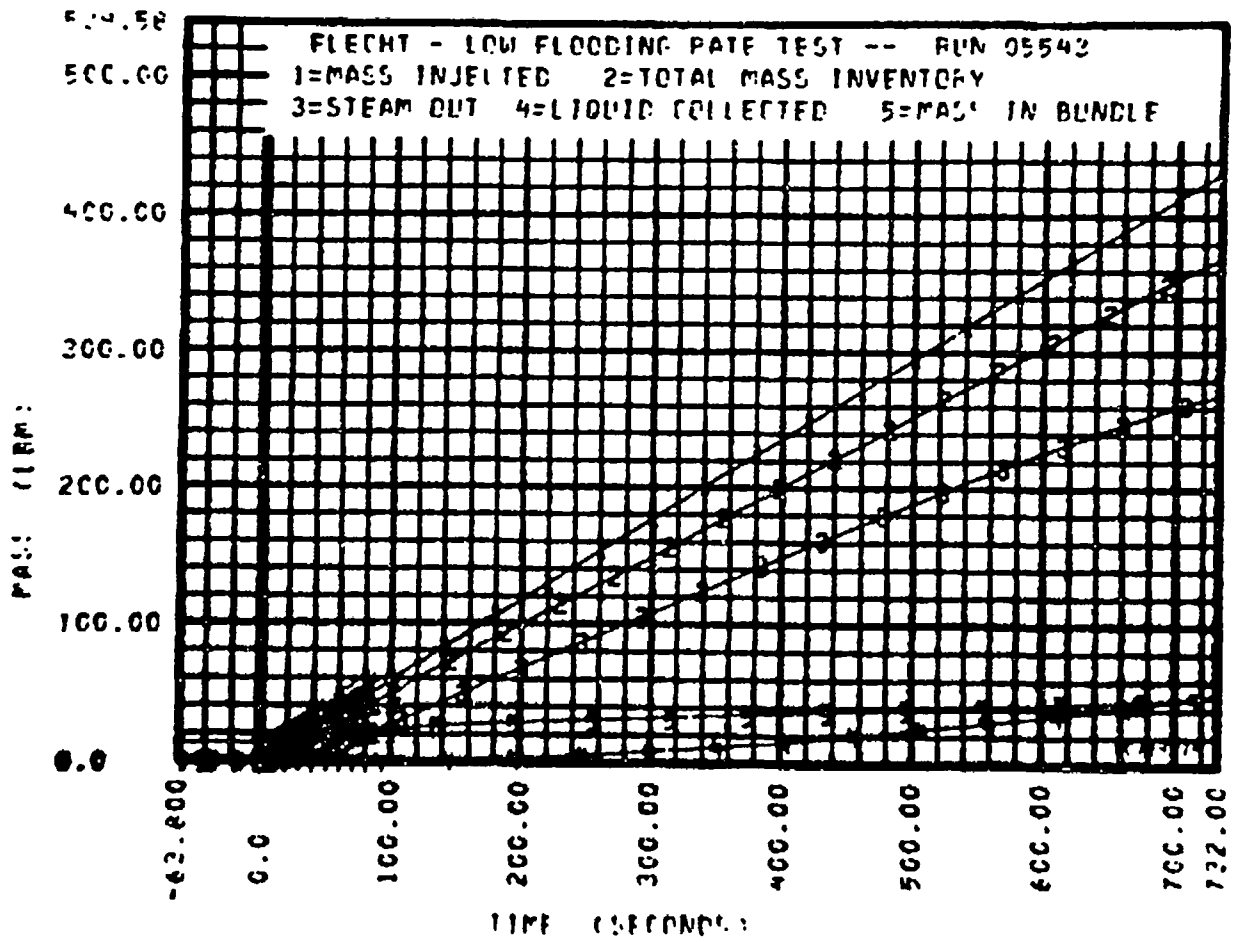


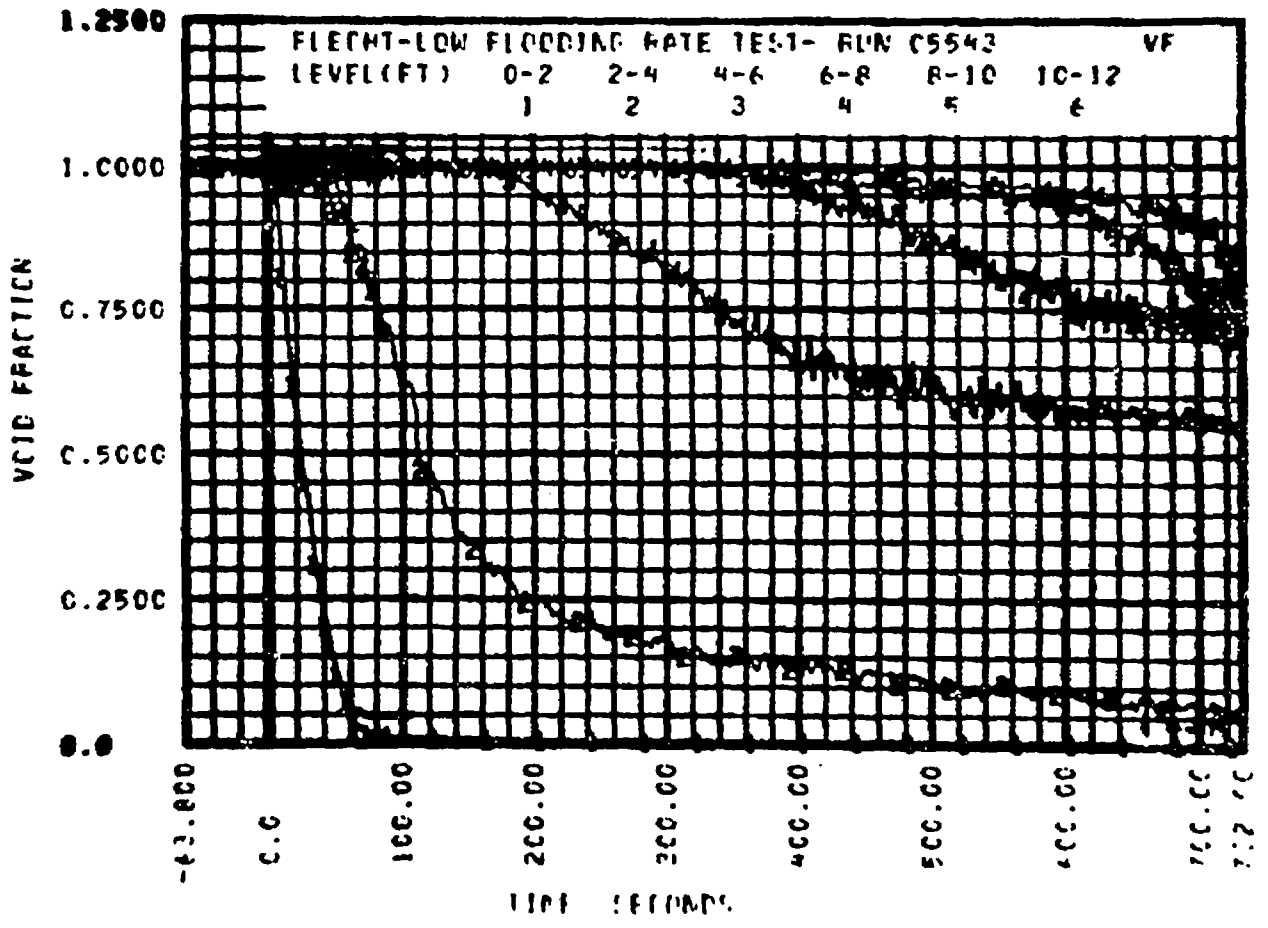
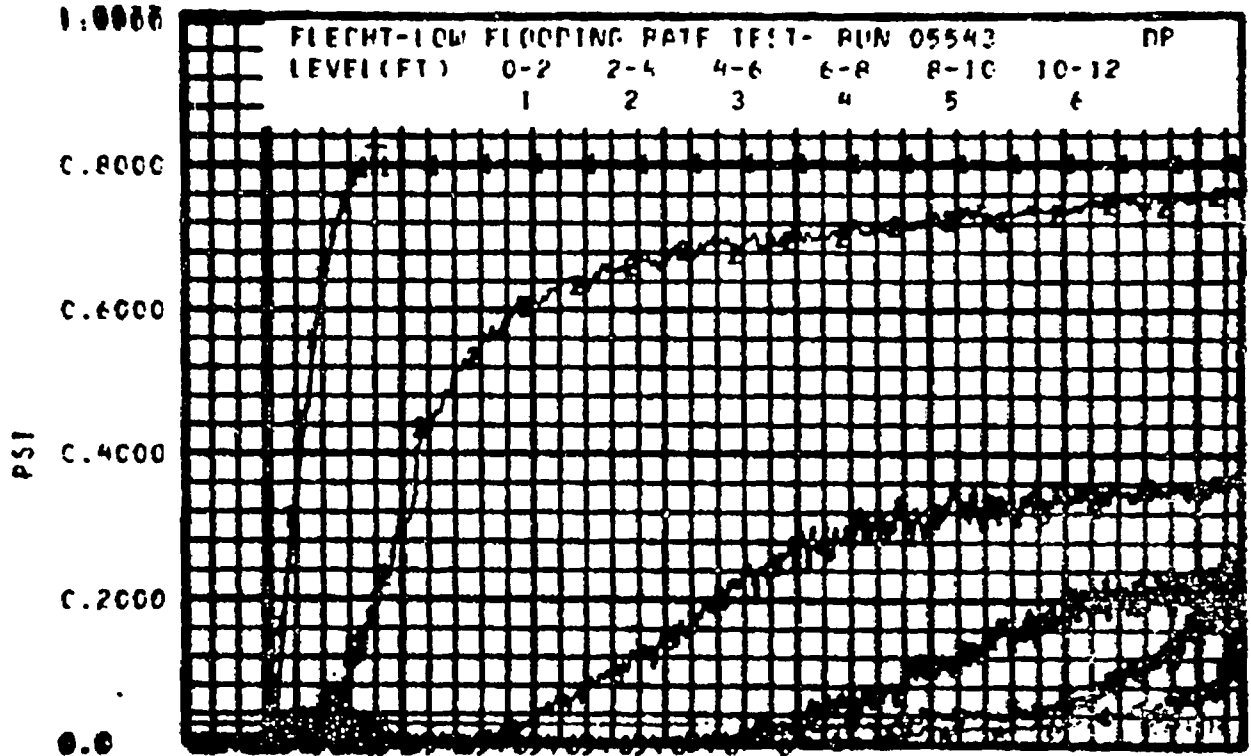


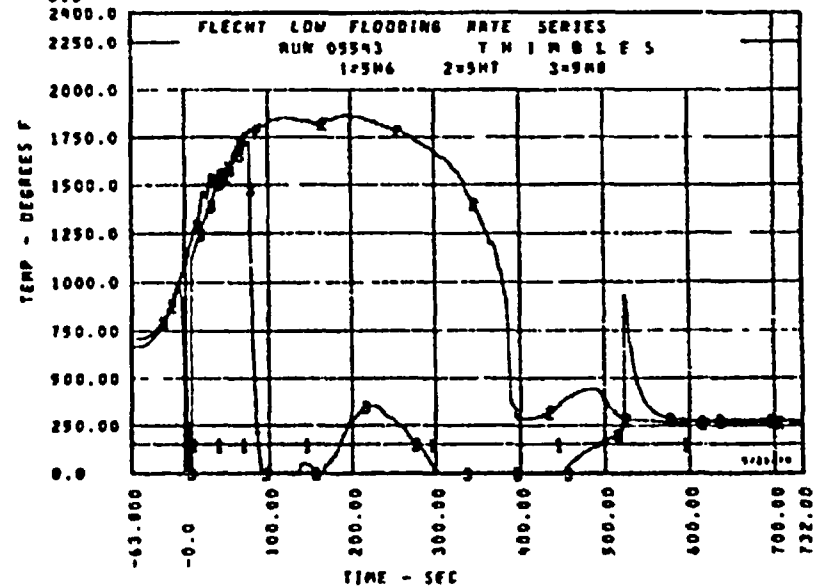
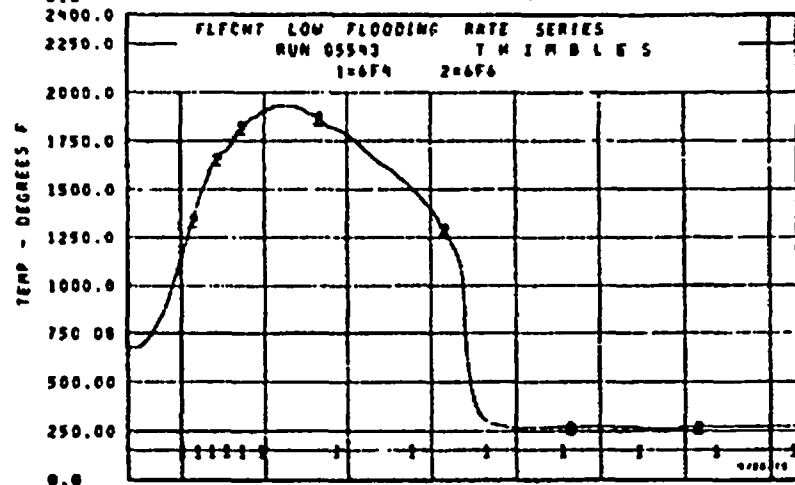
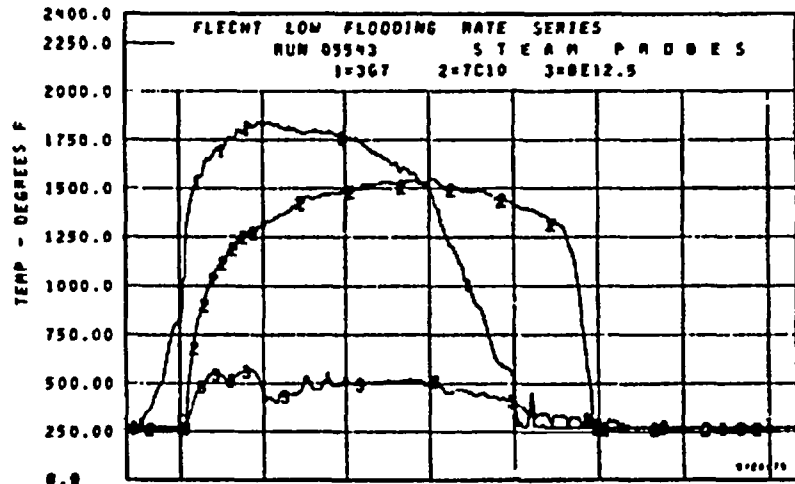


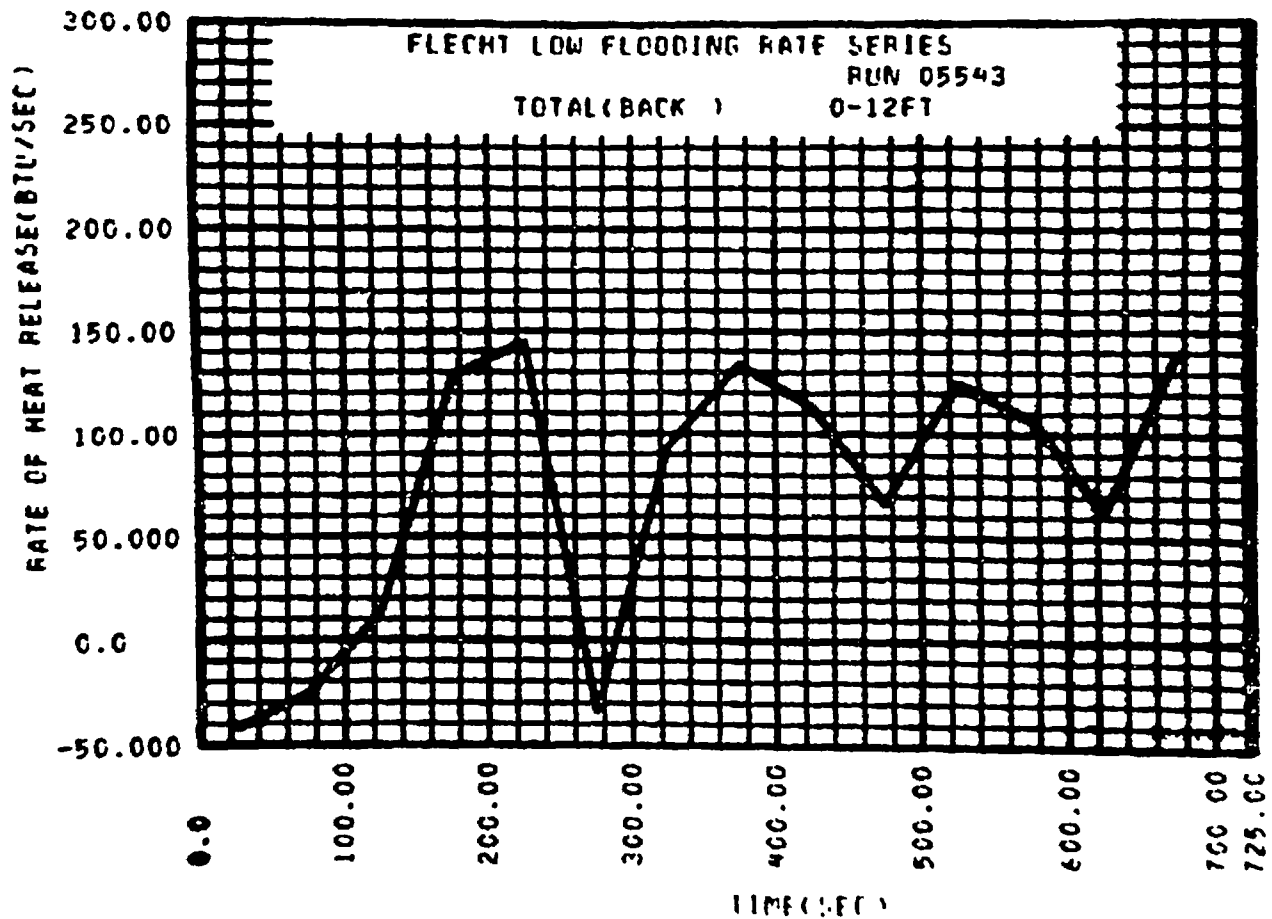
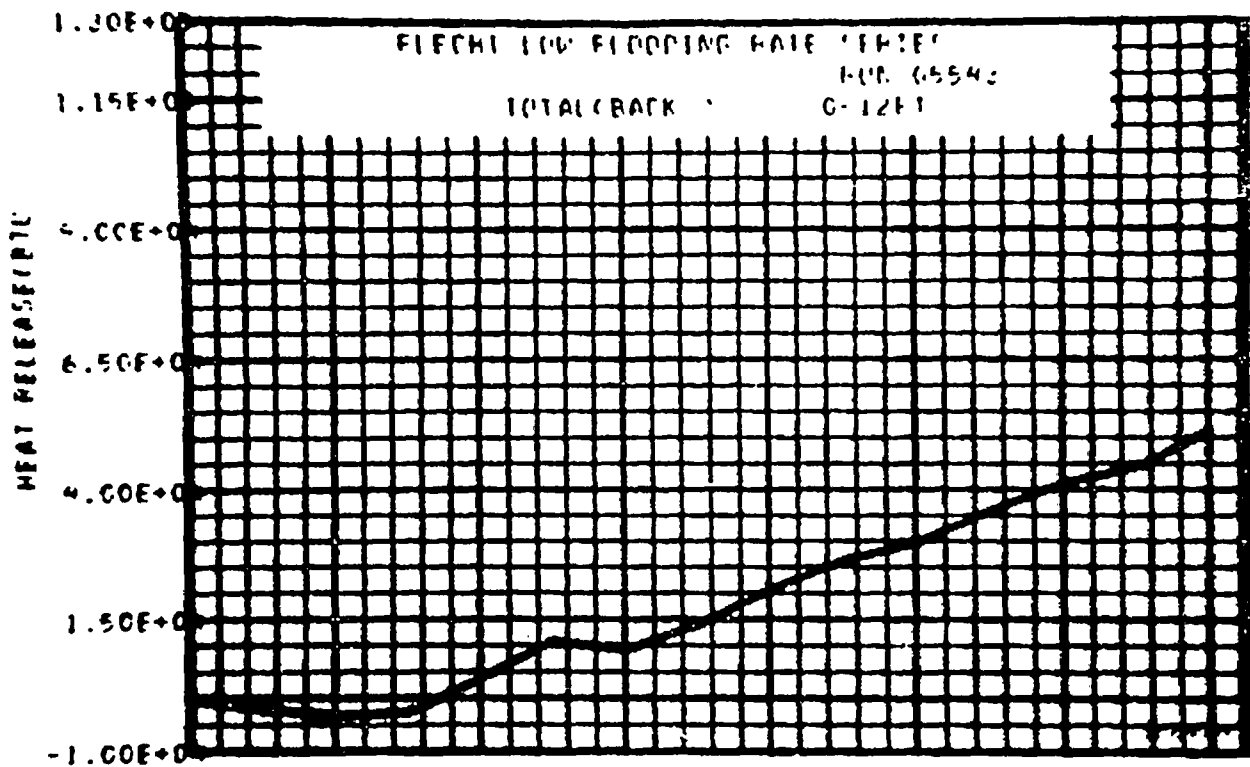












FLECHT - LOW FLOODING RATE TEST

SUMMARY SHEET

COSINE AXIAL POWER PROFILE

RUN NO. 05636

DATE: 5/27/75

A. RUN CONDITIONS

Upper Plenum Pressure, psia	<u>40</u>	
Initial Clad Temperature (6 ft) °F At Flood	<u>1,601</u>	Rod T/C <u>416</u>
Rod Peak Power, kw/ft	<u>0.73</u>	
Flooding Rate, in/sec	<u>0.6</u>	
	<u>----</u>	
	<u>----</u>	
Coolant Temperature, °F	<u>127</u>	
Bundle Radial Power Profile	<u>FLECHT</u>	
Disconnected Rods	<u>7F</u>	

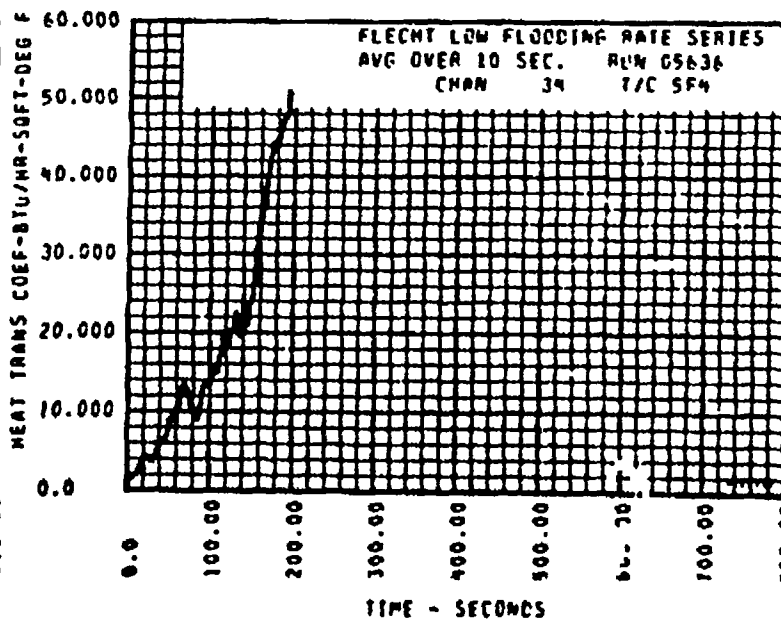
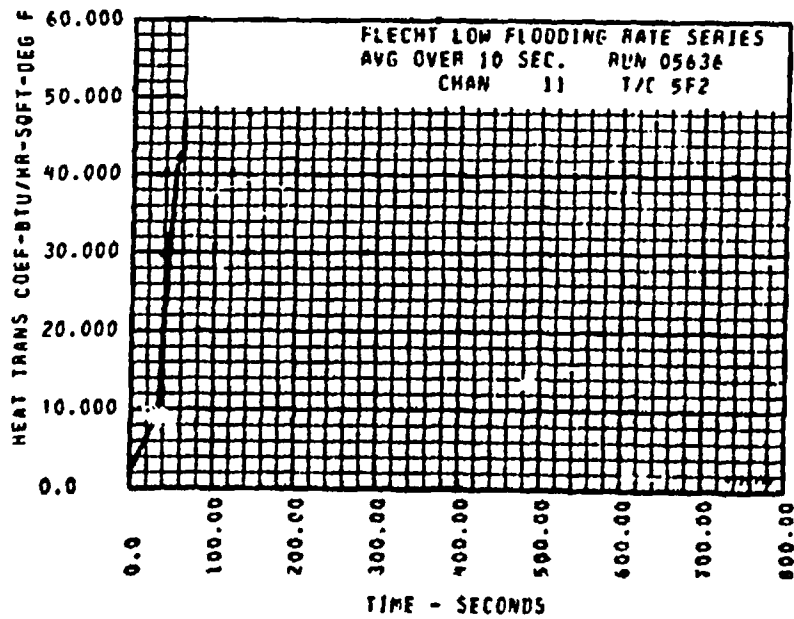
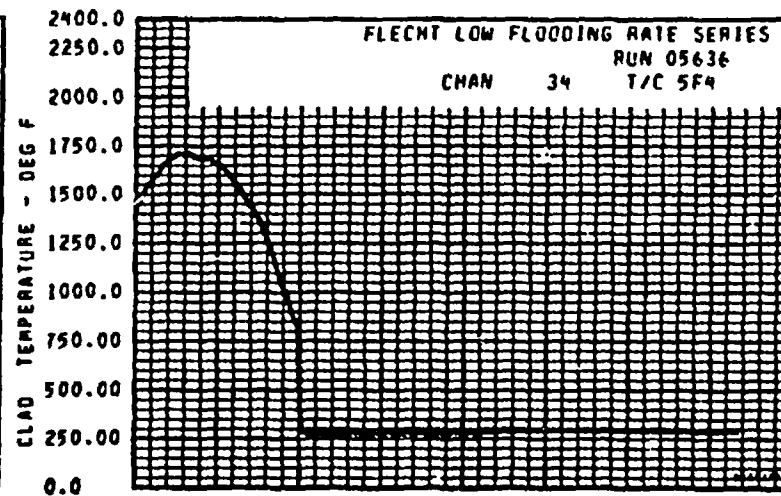
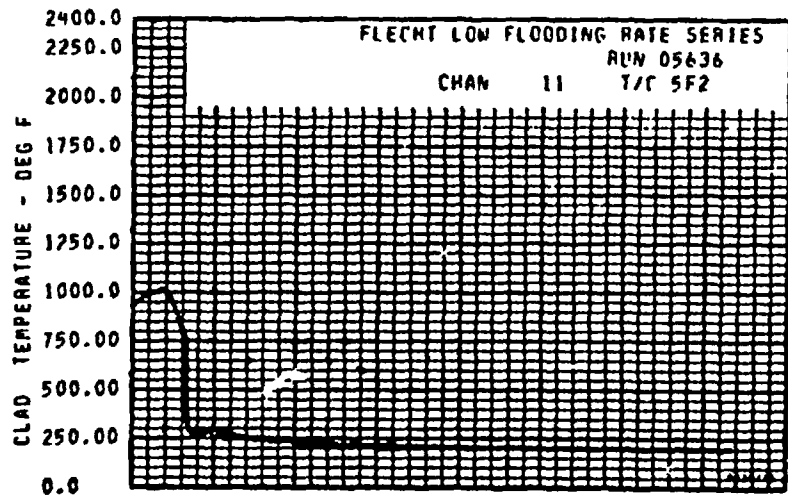
B. INITIAL HOUSING TEMPERATURE

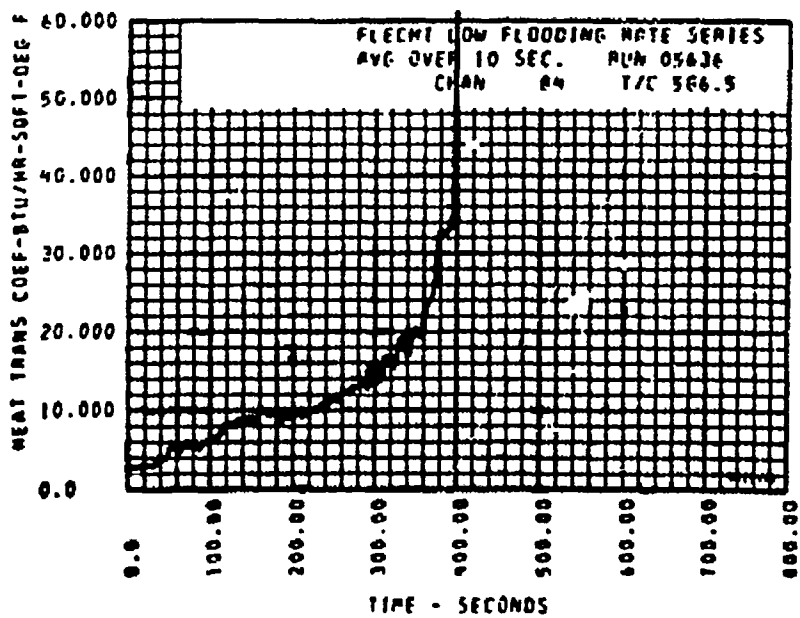
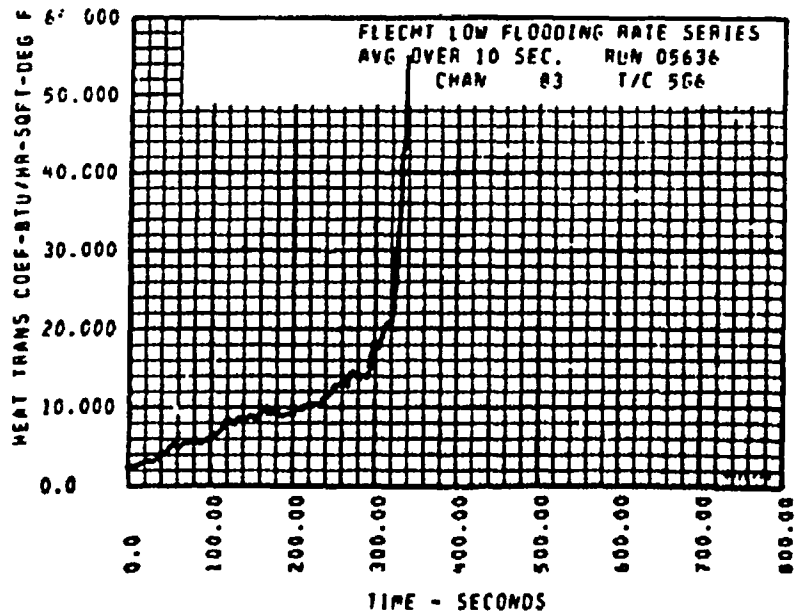
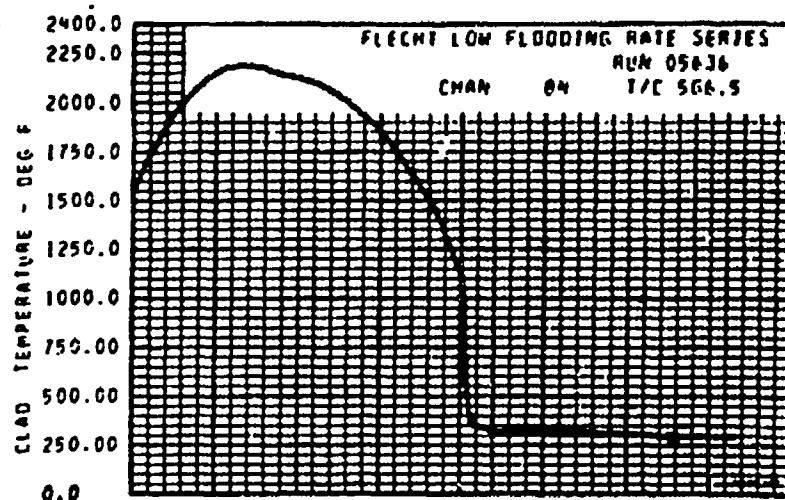
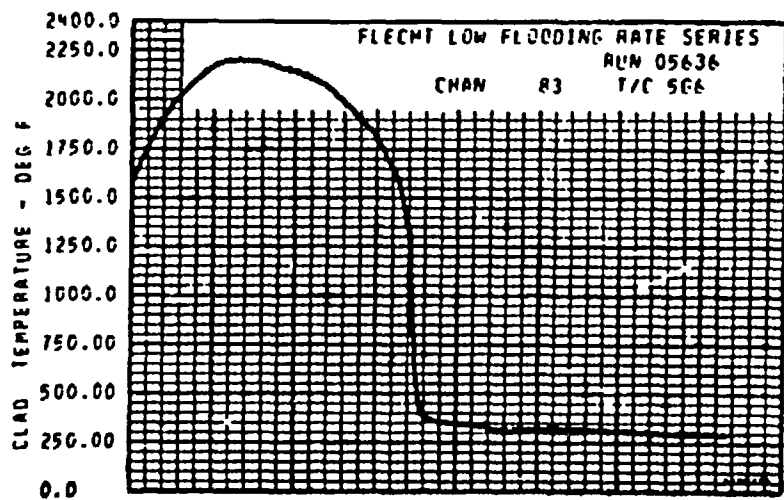
Back Side Elevation, Ft.	Temperature, °F
0	<u>274</u>
2	<u>562</u>
4	<u>776</u>
5.5	<u>817</u>
6	<u>825</u>
6.5	<u>692</u>
7	<u>704</u>
7.5	<u>725</u>
8	<u>774</u>
10	<u>668</u>
12	<u>280</u>
Average	<u>636</u>
Lower Plenum	<u>121</u>
Upper Plenum	<u>269</u>

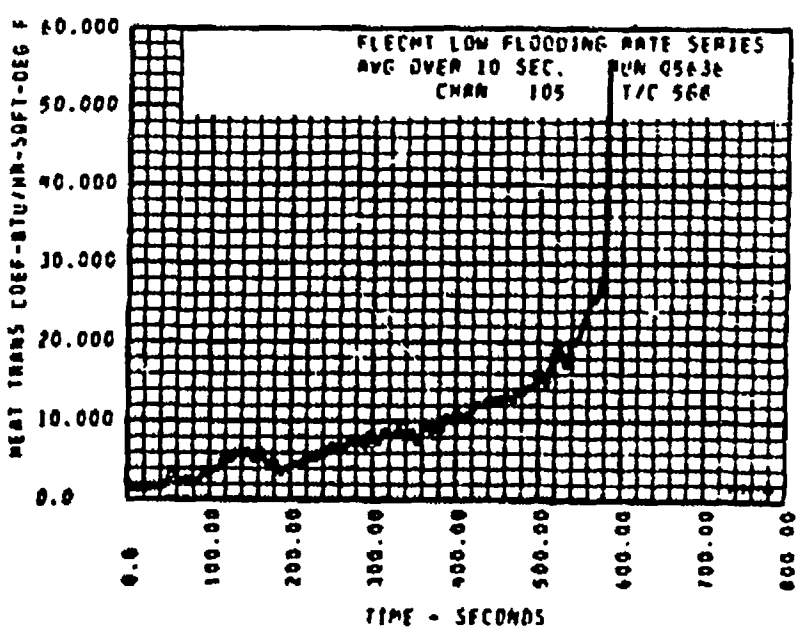
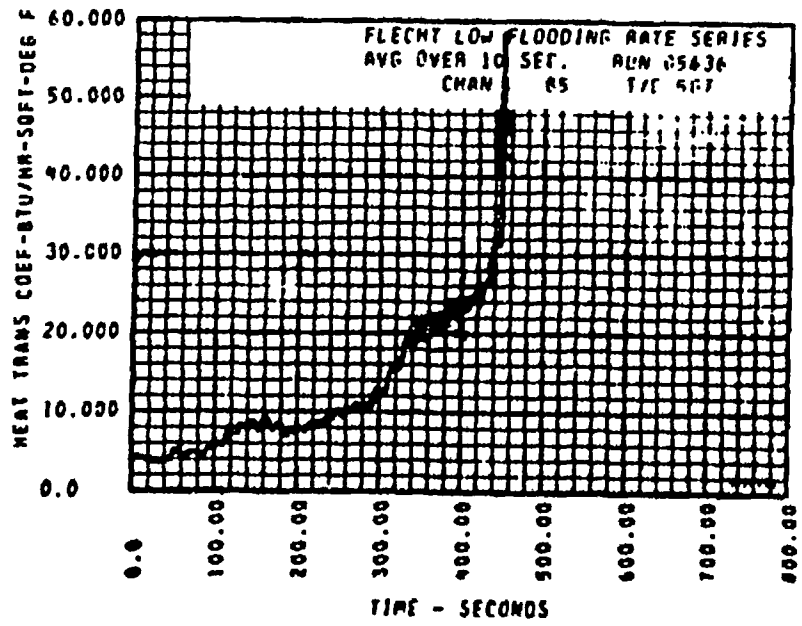
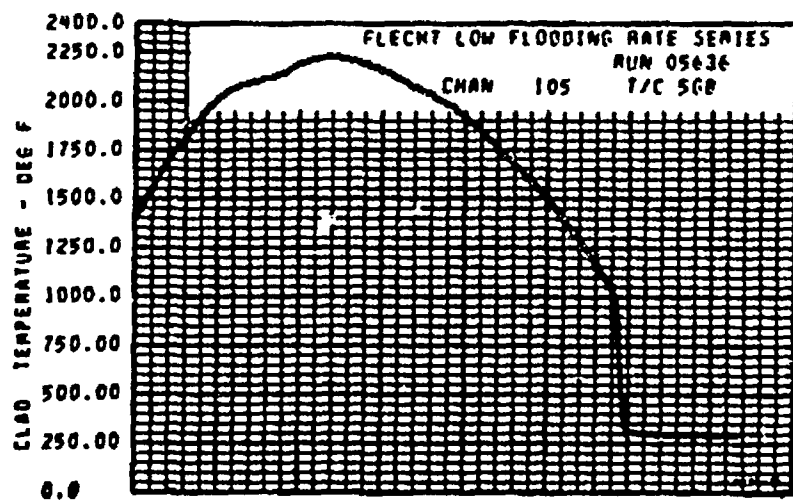
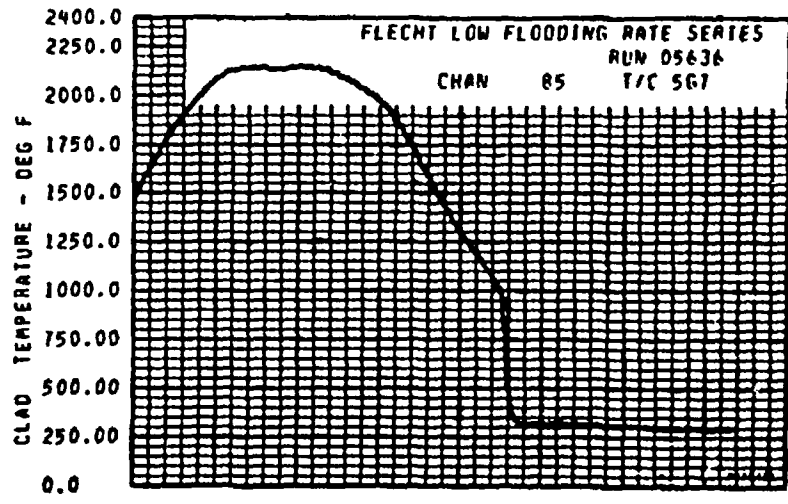
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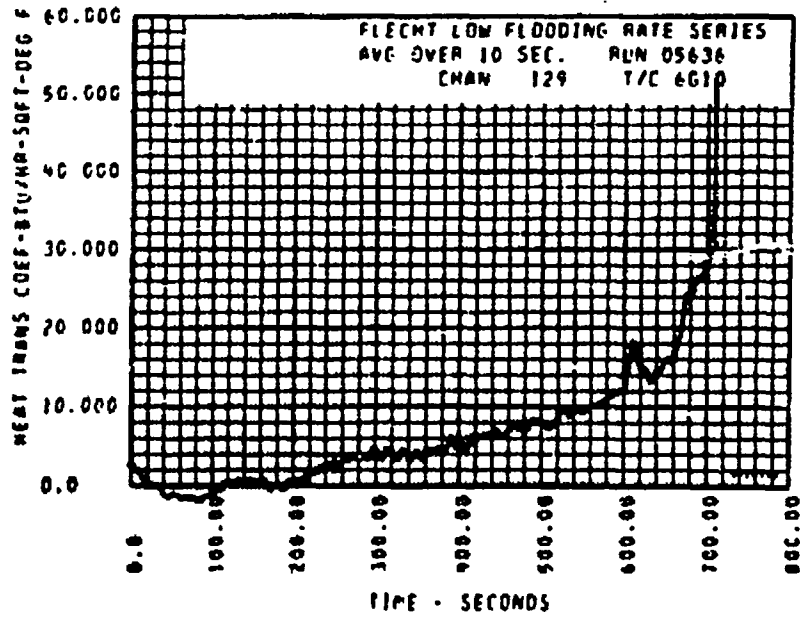
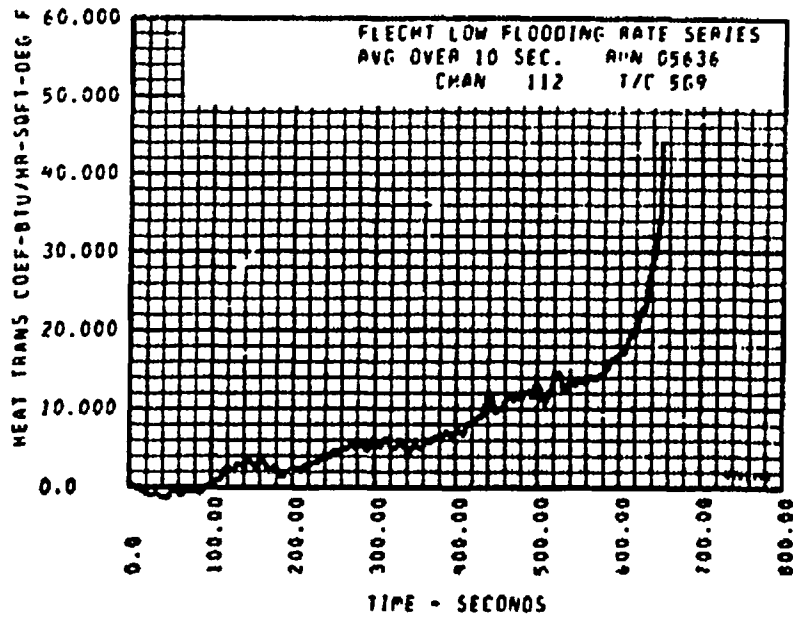
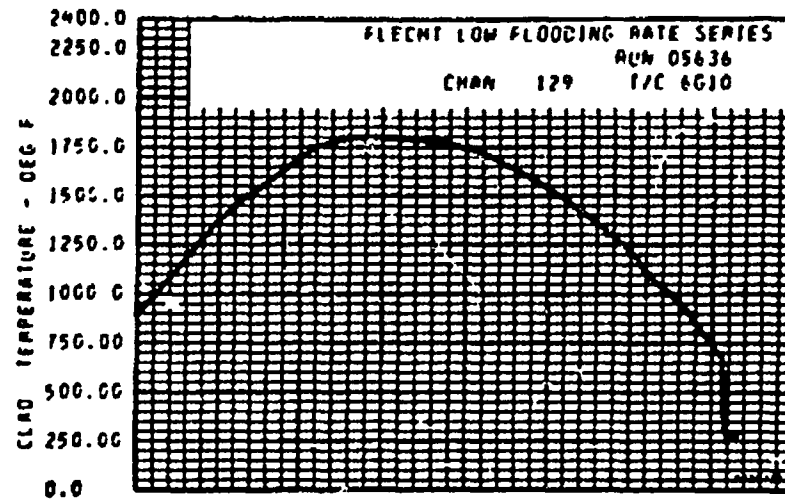
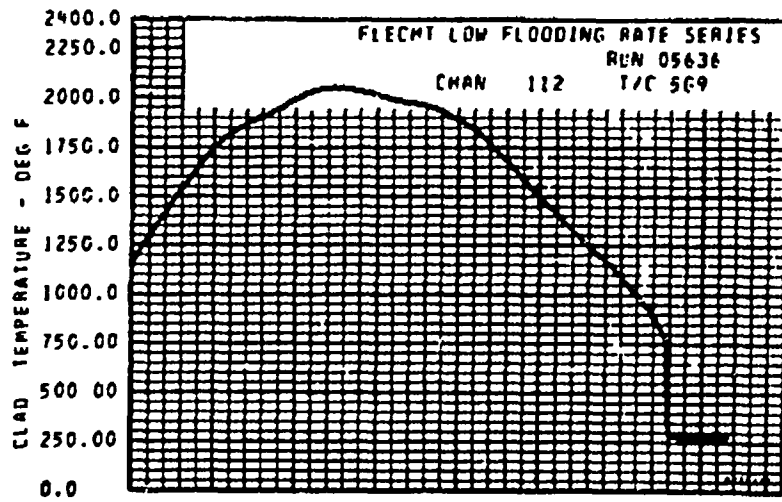
PARFMI-LOW FLOWING RATE TO THERMOCUPLE DATA

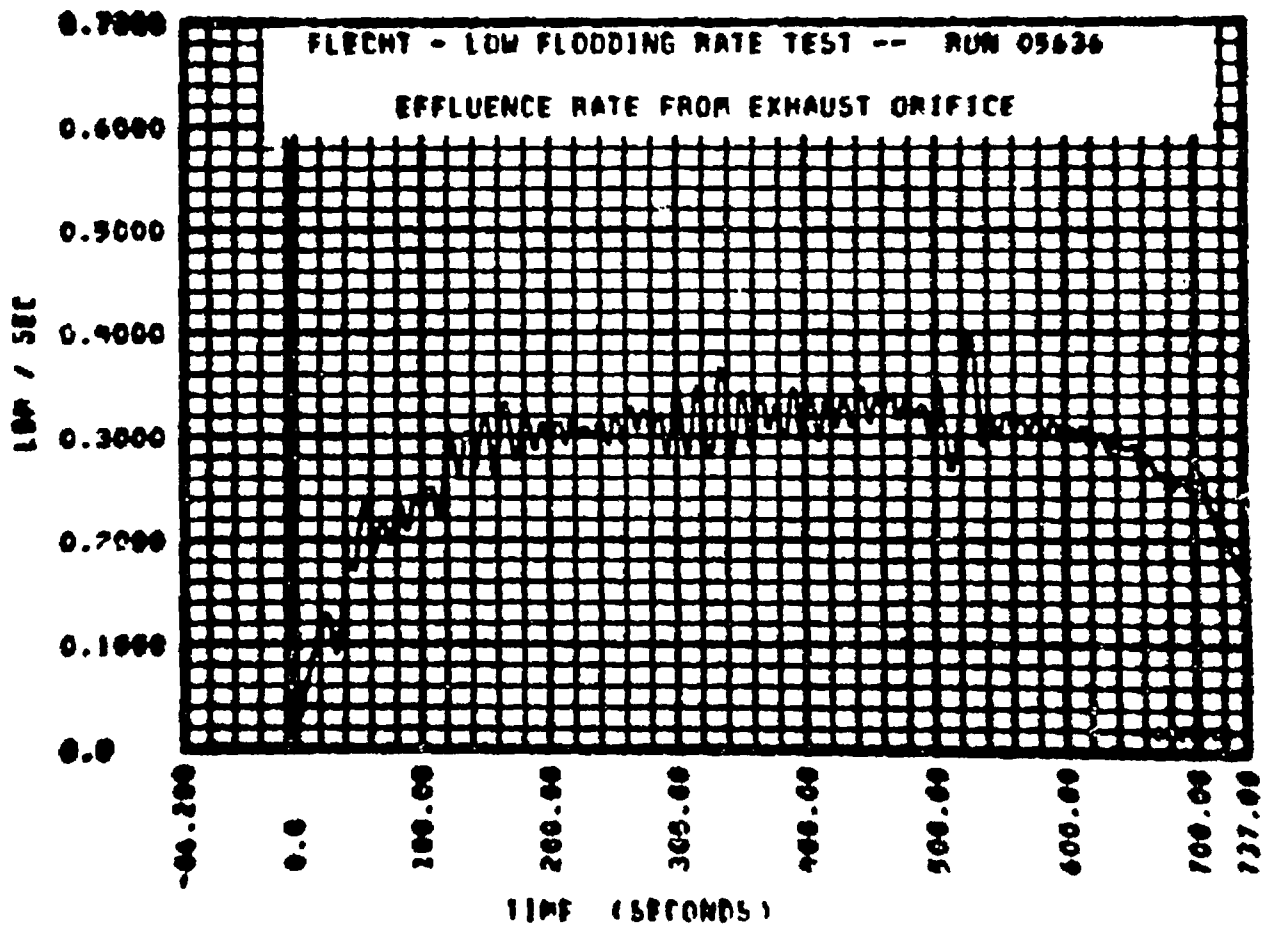
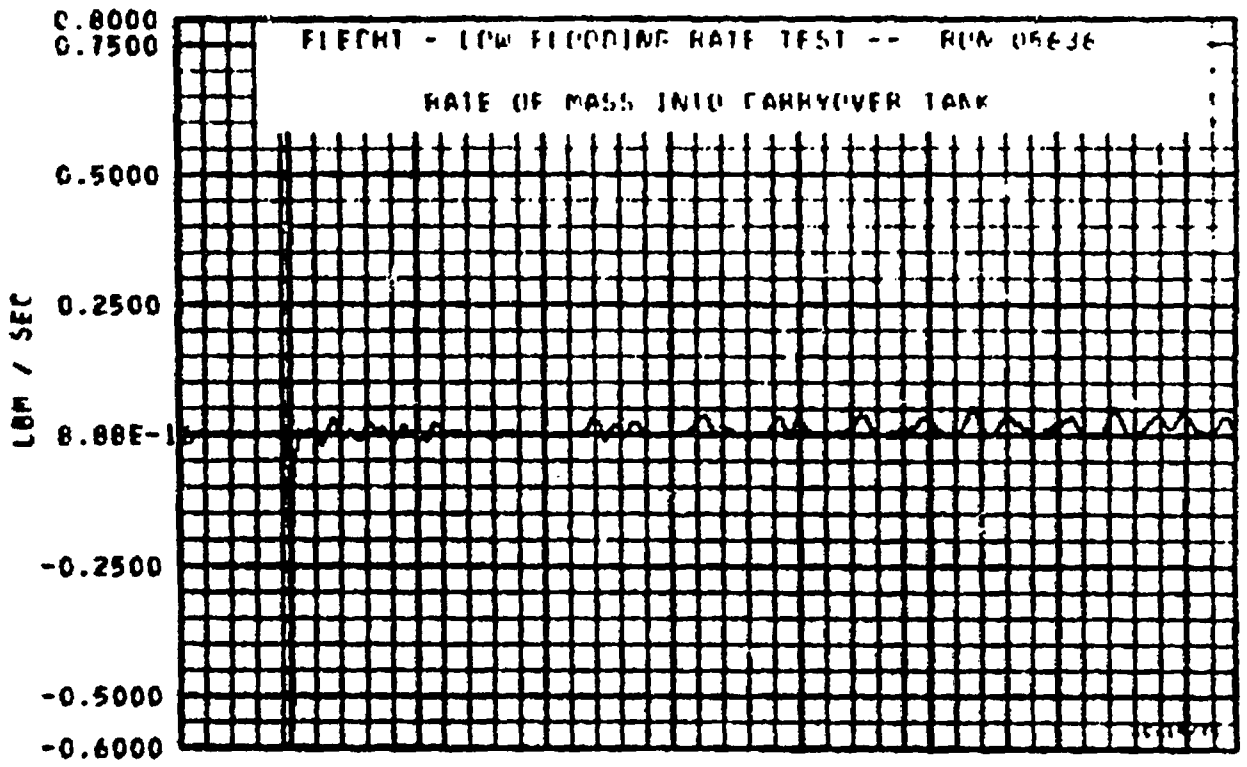
TEST NO.	INLET TEMPERATURE (°F)	TEMP. OF THERMOCUPLE (°F)	INITIAL TEMPERATURE OF FLOW (°F)	MAXIMUM TEMPERATURE (°F)	TEMPERATURE DIFFERENCE (°F)	THERMAL CONDUCTIVITY (BTU/HR-FT-°F)	QUENCH TEMPERATURE (°F)	QUENCH TIME (SEC.)
641.4	177.	-75.1	627.	657.	29.	10.7	585.	22.4
641	174.	-75.7	697.	727.	40.	17.0	613.	31.4
641.2	175.	-74.7	777.	787.	45.	21.7	674.	44.7
642	167.	-75.0	167.	175.	7.	75.2	774.	68.9
644	167.	-74.2	167.	173.	6.	63.0	754.	291.7
644	164.	-75.7	167.	176.	9.	132.0	924.	173.0
874	160.	-75.7	167.	165.	-2.	105.0	107.	357.3
874.5	157.	-75.7	167.	167.	0.	145.0	107.	424.8
874	154.	-74.7	167.	164.	-3.	145.2	719.	489.8
878	150.	-74.7	167.	164.	-3.	140.	677.	570.9
878	147.	-75.7	137.	138.	1.	247.0	717.	656.0
878.5	147.	-75.7	147.	147.	0.	292.7	627.	709.4
878.5	147.	-75.7	147.	147.	0.	146.4	665.	710.5
878.7	140.	-66.7	177.	167.	-10.	247.	140.	15.8
879	147.	-75.7	147.	147.	0.	0.0	376.	.9
879.5	147.	-75.2	147.	147.	0.	8.4	447.	23.4
879	147.	-75.7	147.	147.	0.	15.2	572.	33.4
879.5	147.	-75.7	147.	147.	0.	15.2	572.	33.4
879	147.	-75.7	147.	147.	0.	15.2	750.	64.9
879	147.	-75.2	147.	147.	0.	40.4	730.	127.8
879	147.	-75.7	147.	147.	0.	60.0	810.	198.9
879	147.	-75.2	147.	147.	0.	133.9	1099.	349.6
904	147.	-74.7	147.	2207.	1760.	132.0	1319.	341.4
904.5	147.	-74.7	147.	2189.	1712.	130.0	1022.	403.7
904	147.	-75.7	147.	2151.	1704.	130.0	983.	452.7
904	147.	-74.7	147.	2134.	1687.	136.0	923.	585.6
904	147.	-74.7	147.	2054.	1607.	247.0	745.	655.9
904.5	147.	-74.7	147.	1634.	1487.	373.0	597.	728.0
904.2	147.	-74.2	147.	1464.	1317.	268.0	533.	737.0
104	147.	-74.7	147.	1518.	1371.	50.4	415.	156.6
104	147.	-75.2	147.	1521.	1374.	111.0	436.	355.6
104	147.	-75.7	147.	1330.	1183.	190.8	622.	695.9
144	147.	-74.7	147.	1045.	902.	33.0	747.	64.9
144	147.	-75.7	147.	2124.	1971.	116.0	912.	362.9
144	147.	-75.7	147.	2180.	1983.	201.0	883.	576.9
144	147.	-75.7	147.	1686.	1533.	214.0	925.	652.2
144	147.	-75.7	147.	1627.	1474.	15.0	84.	188.9
144	147.	-74.7	147.	159.	144.	133.0	1062.	359.6
144	147.	-74.2	147.	2322.	2169.	258.0	1149.	596.3
144	147.	-74.7	147.	1895.	1742.	361.0	674.	711.0

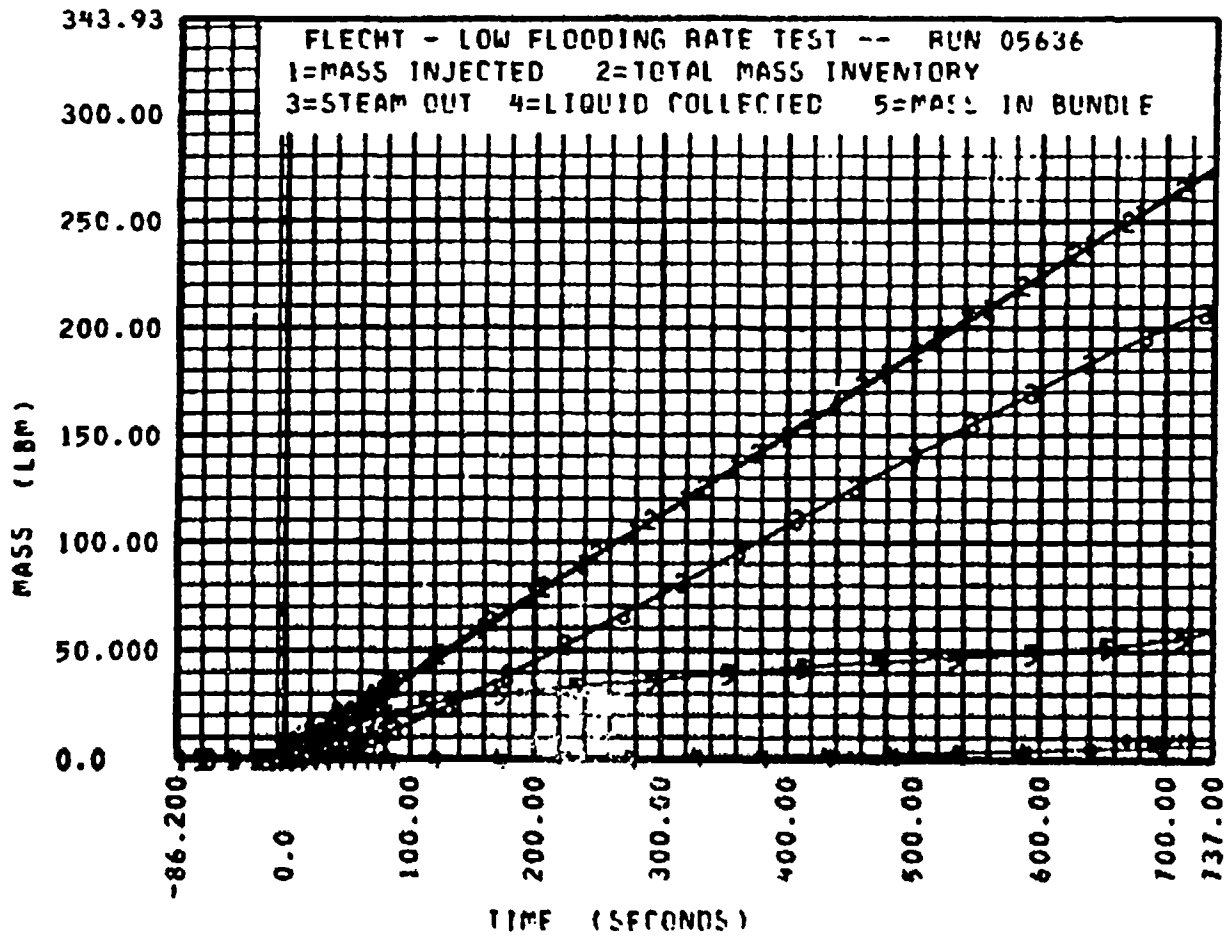


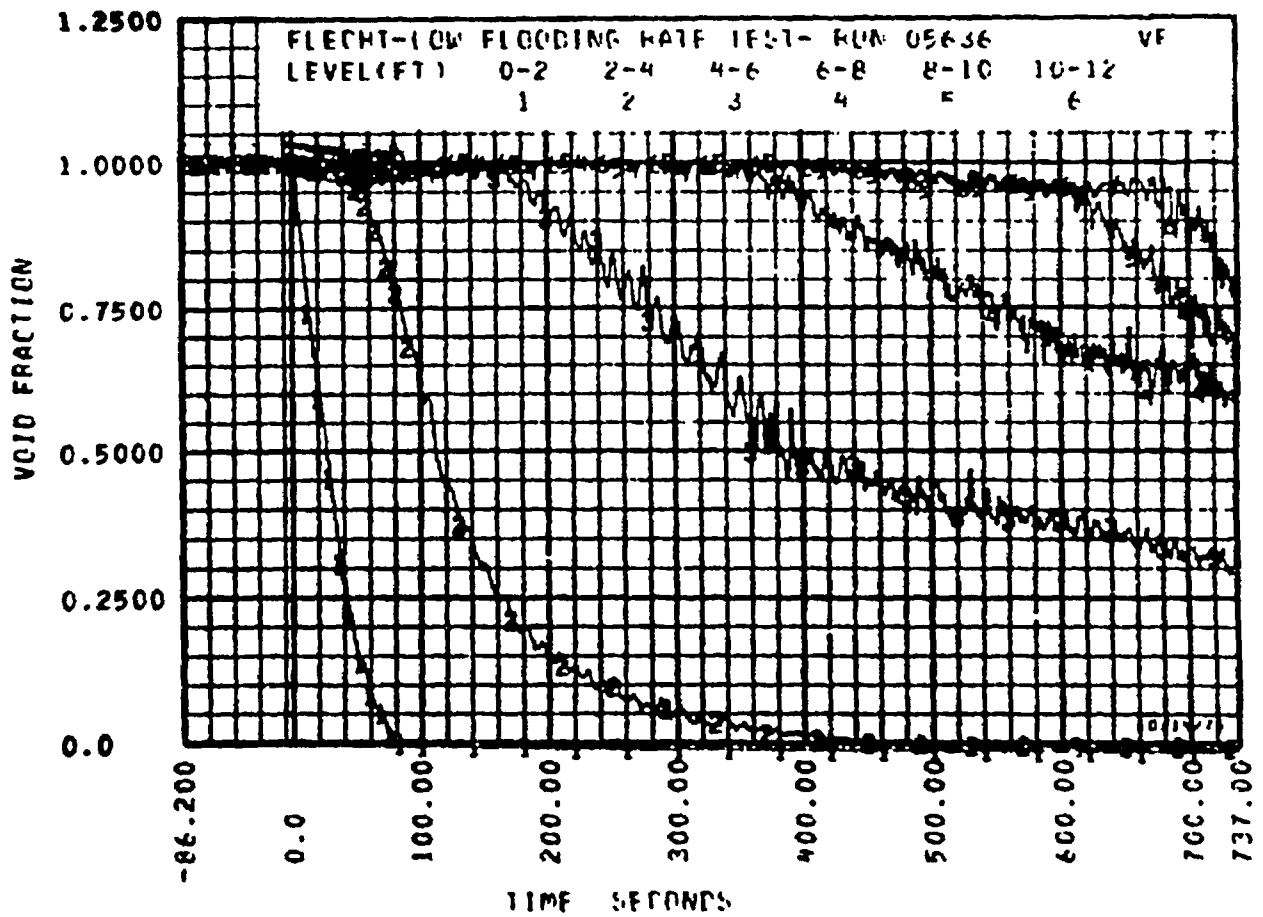
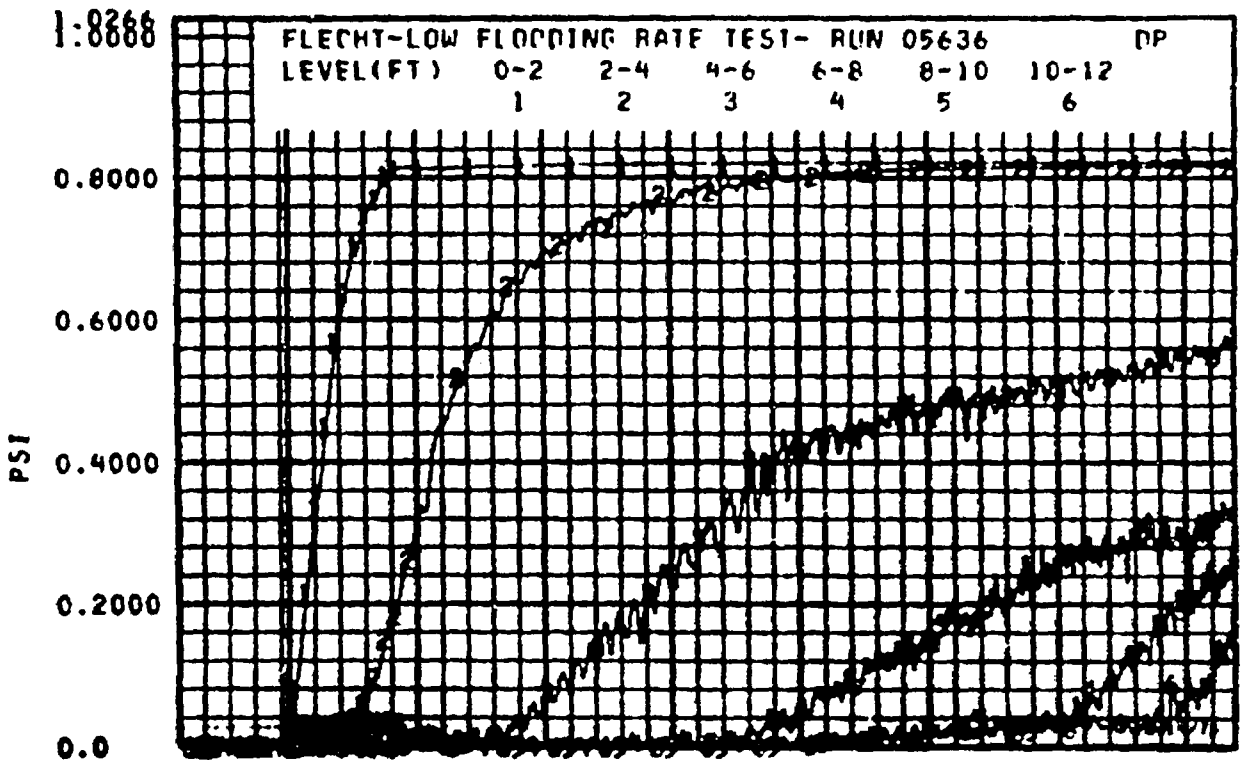


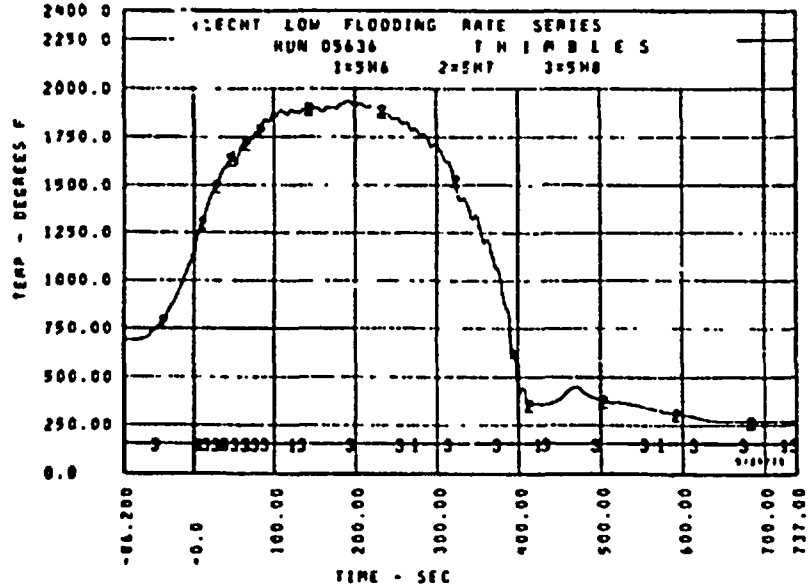
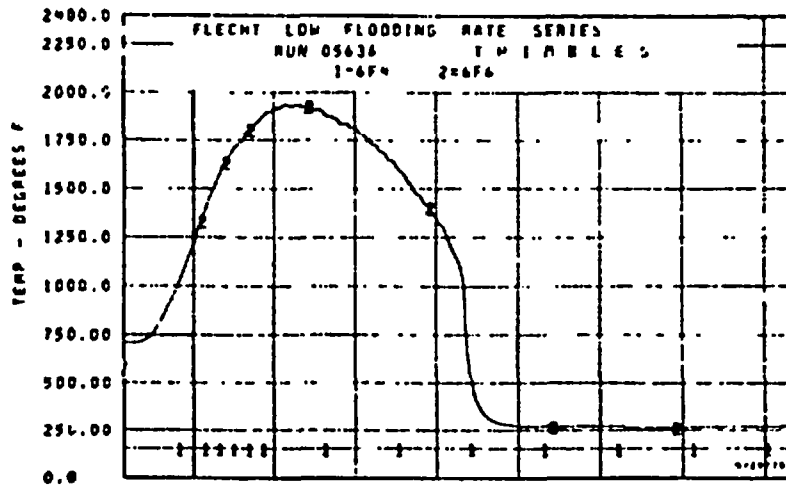
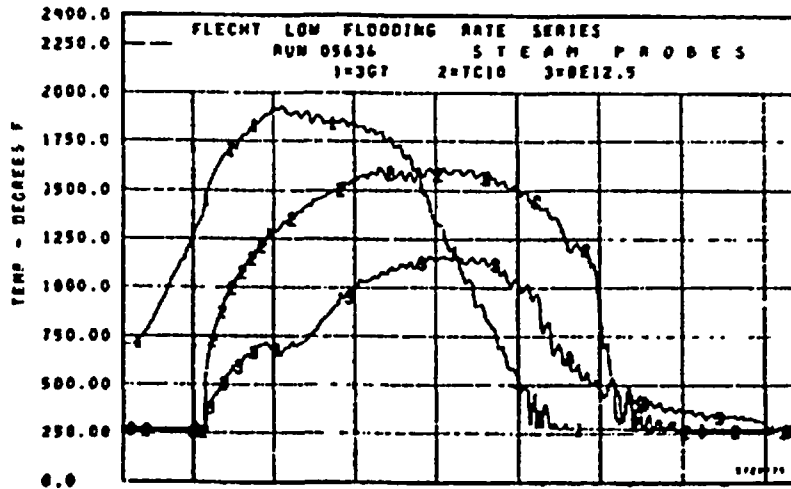


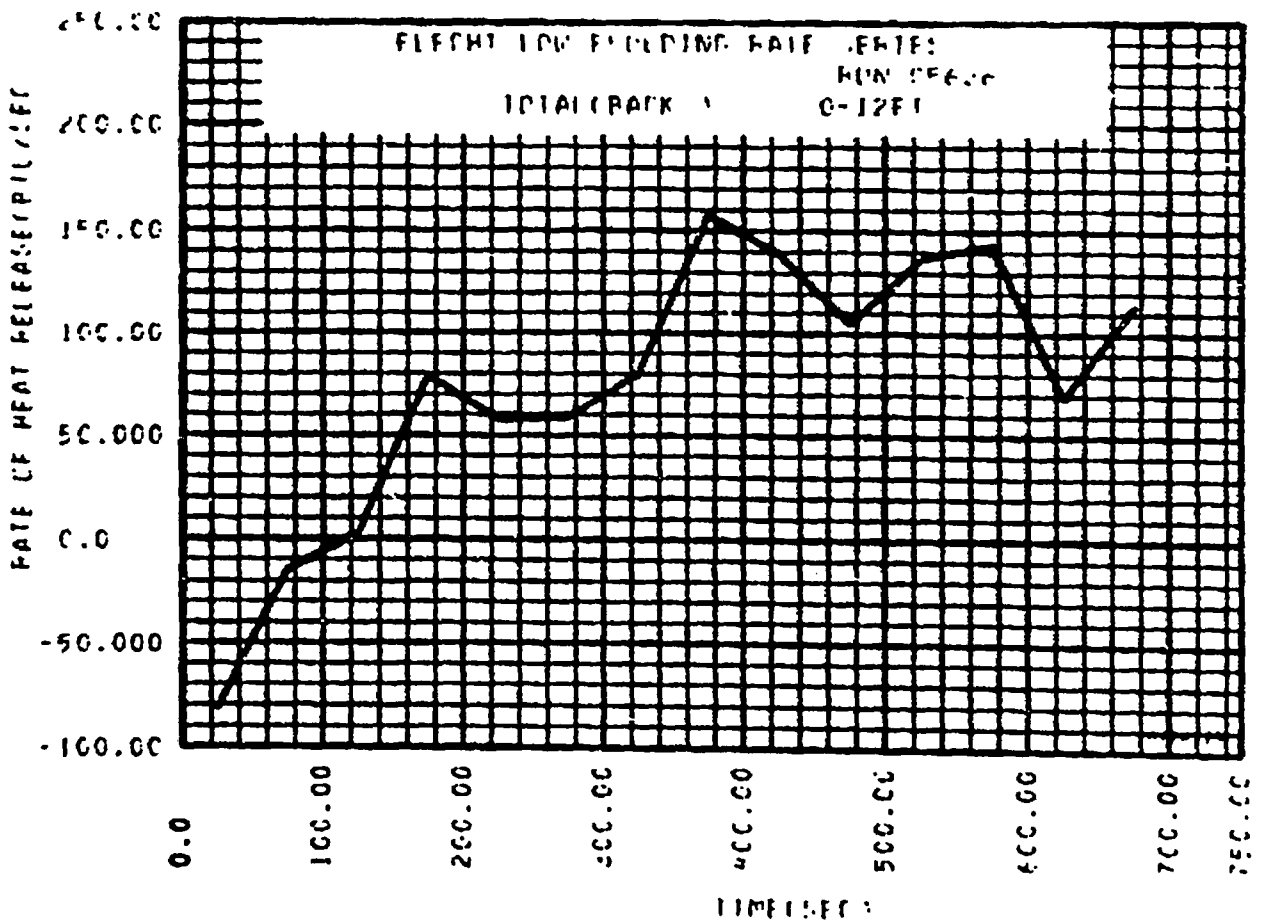
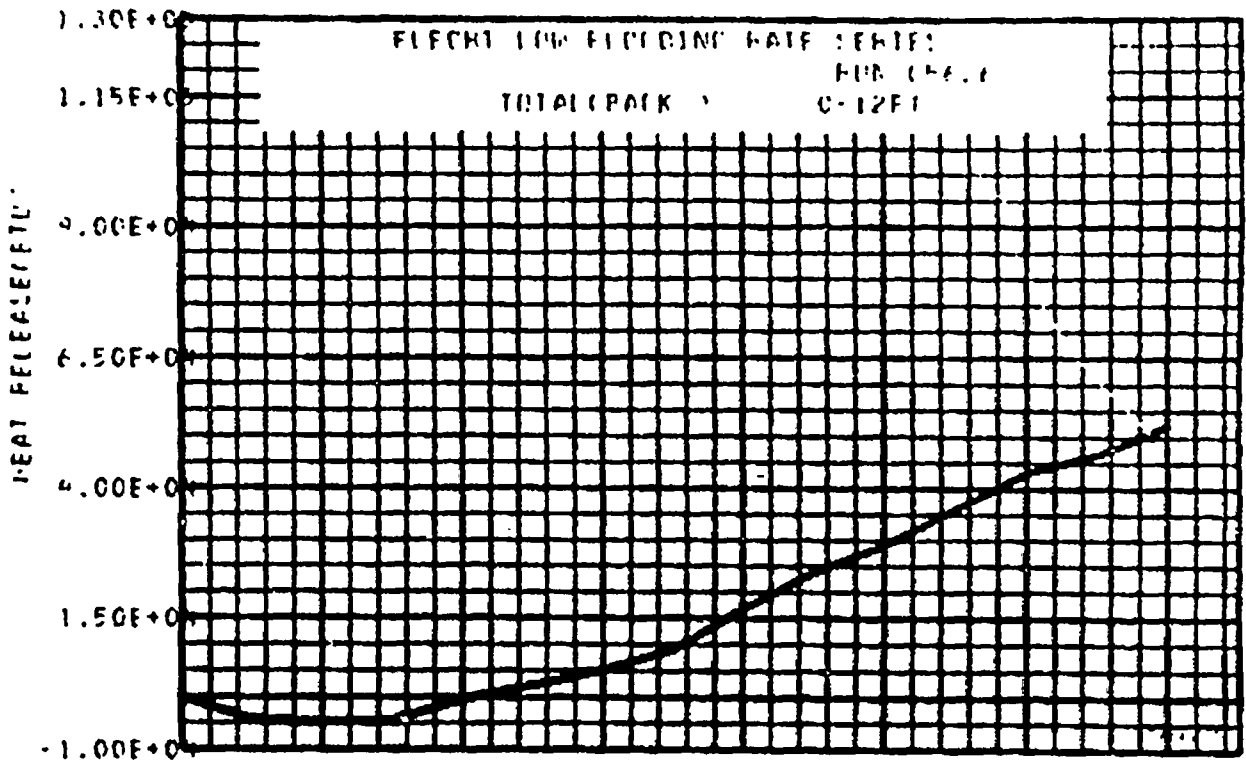












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FLECHT - LOW FLOODING RATE TEST

SUMMARY SHEET

COSINE AXIAL POWER PROFILE

RUN NO. 05715

DATE: 6/2/75

A. RUN CONDITIONS

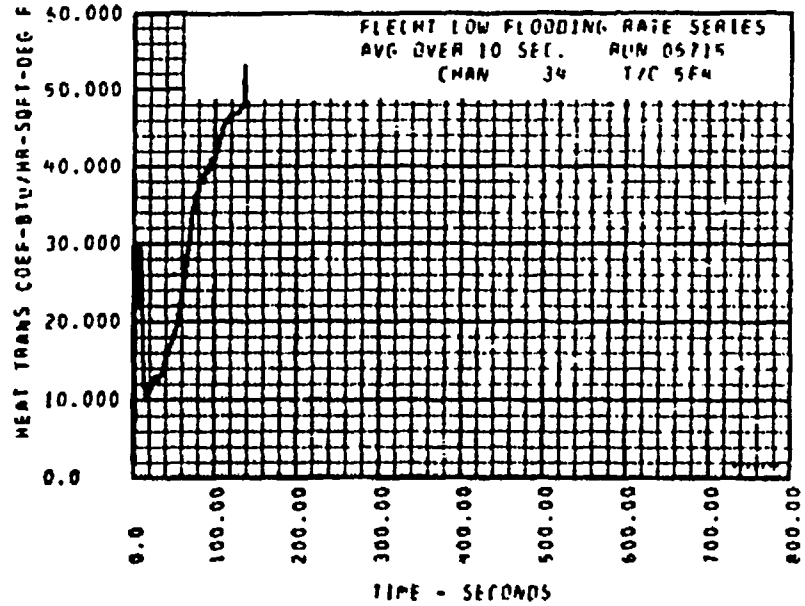
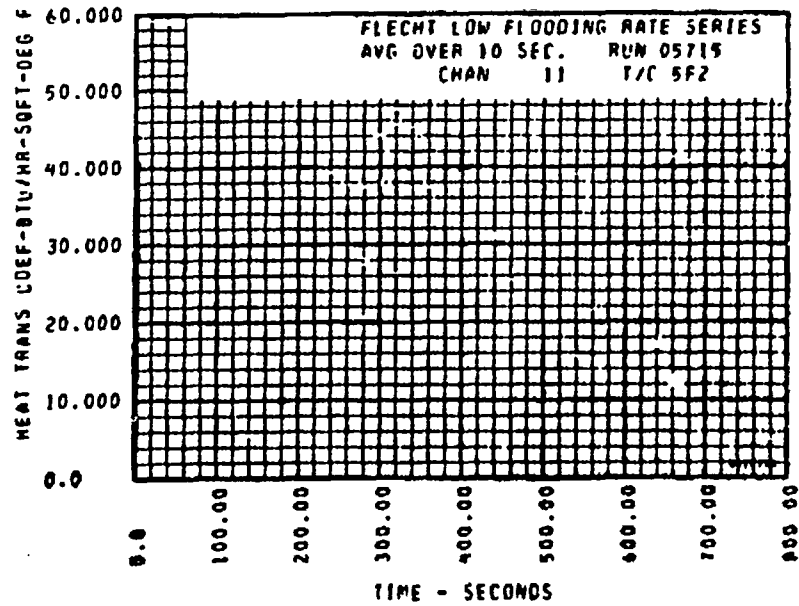
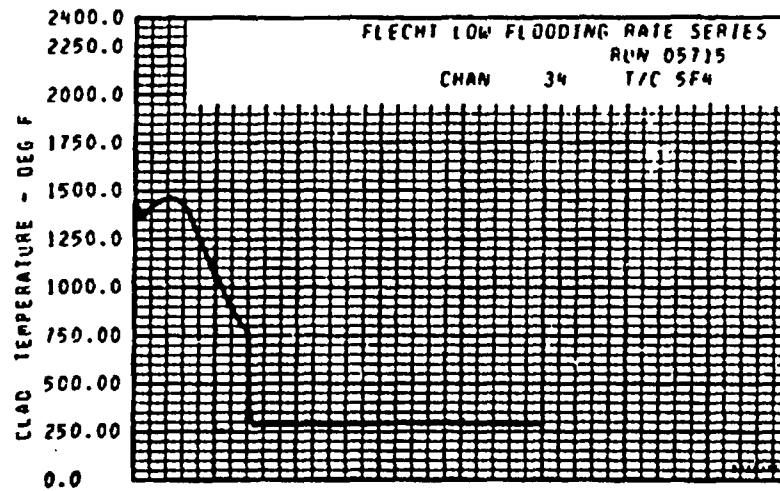
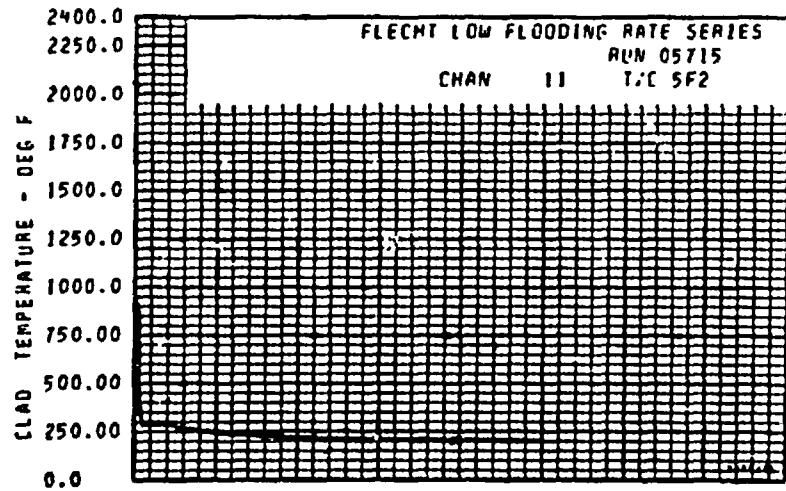
Upper Plenum Pressure, psia	<u>40</u>	
Initial Clad Temperature (6 Ft) ^o F At Flood	<u>1,603</u>	Rod T/C <u>4H6</u>
Rod Peak Power, kw/ft	<u>0.95</u>	
Flooding Rate, in/sec	<u>12 (5.4 sec)</u>	
	<u>0.79</u>	
	<u>---</u>	
Coolant Temperature, ^o F	<u>127</u>	
Bundle Radial Power Profile	<u>FLECHT</u>	
Disconnected Rods	<u>7F</u>	

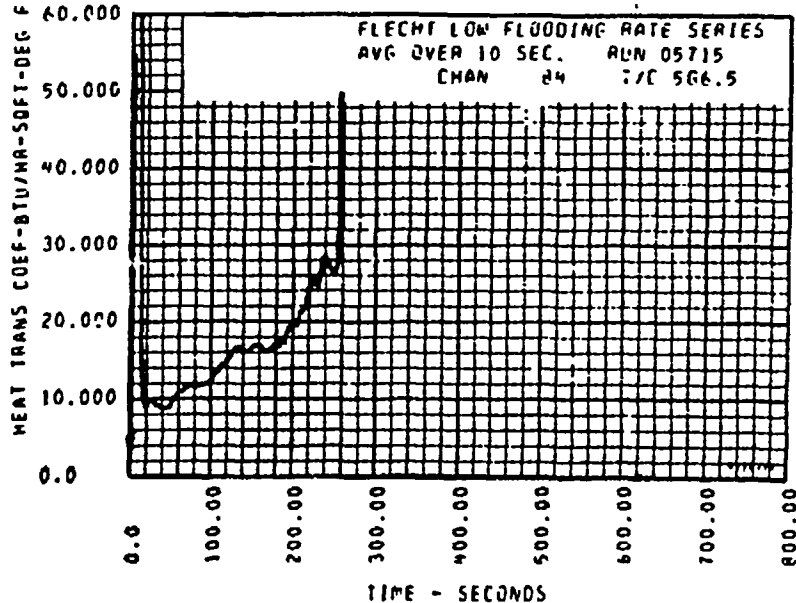
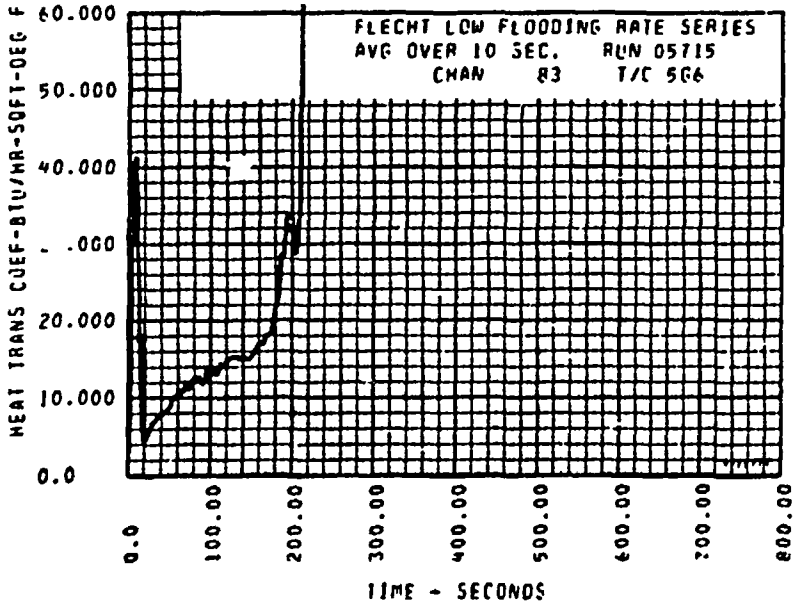
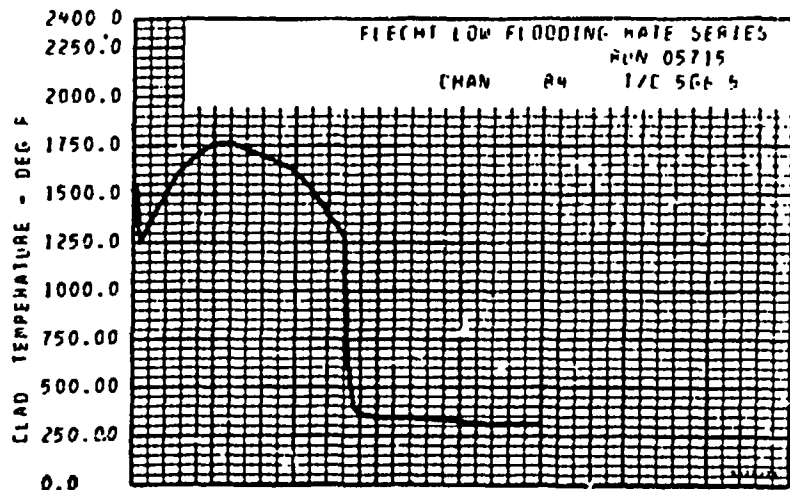
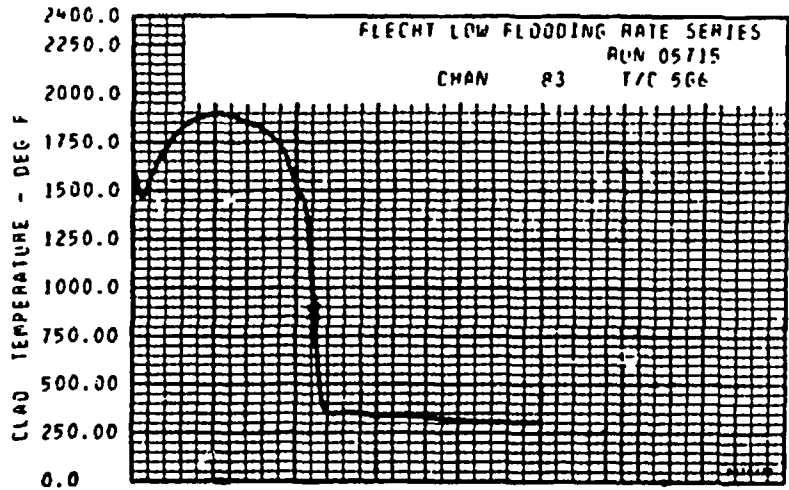
B. INITIAL HOUSING TEMPERATURE

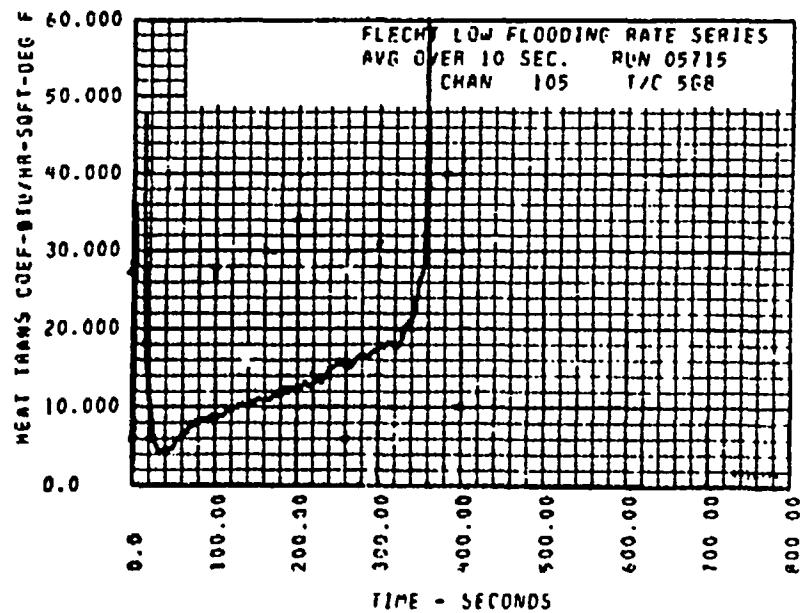
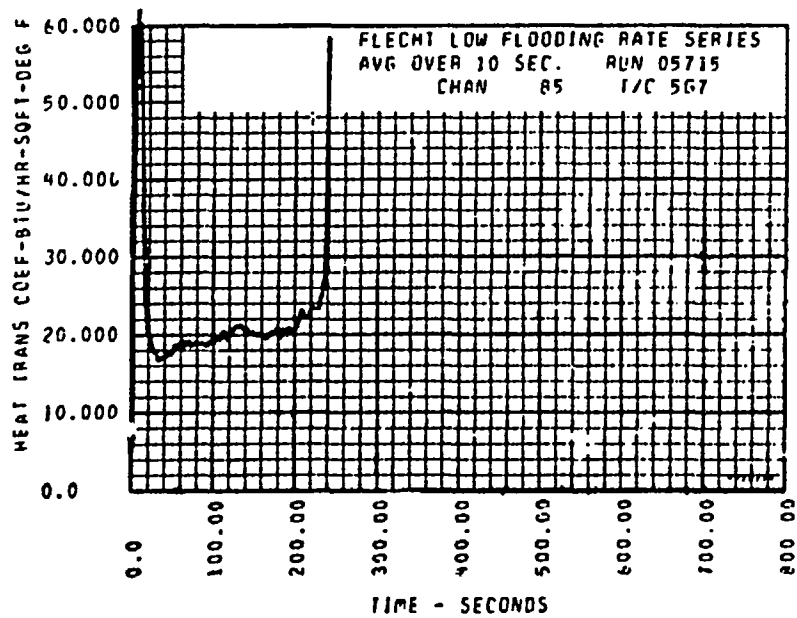
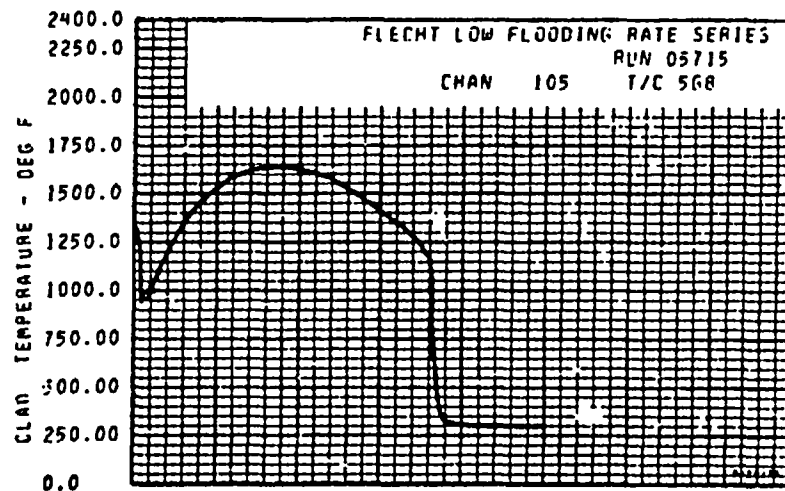
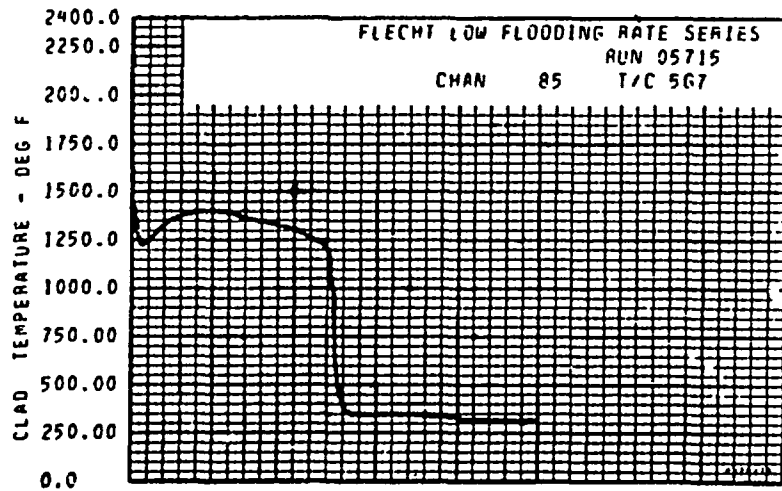
Back Side Elevation, Ft.	Temperature, ^o F
0	<u>277</u>
2	<u>556</u>
4	<u>720</u>
5.5	<u>811</u>
6	<u>816</u>
6.5	<u>646</u>
7	<u>646</u>
7.5	<u>658</u>
8	<u>716</u>
10	<u>569</u>
12	<u>272</u>
Average	<u>608</u>
Lower Plenum	<u>119</u>
Upper Plenum	<u>270</u>

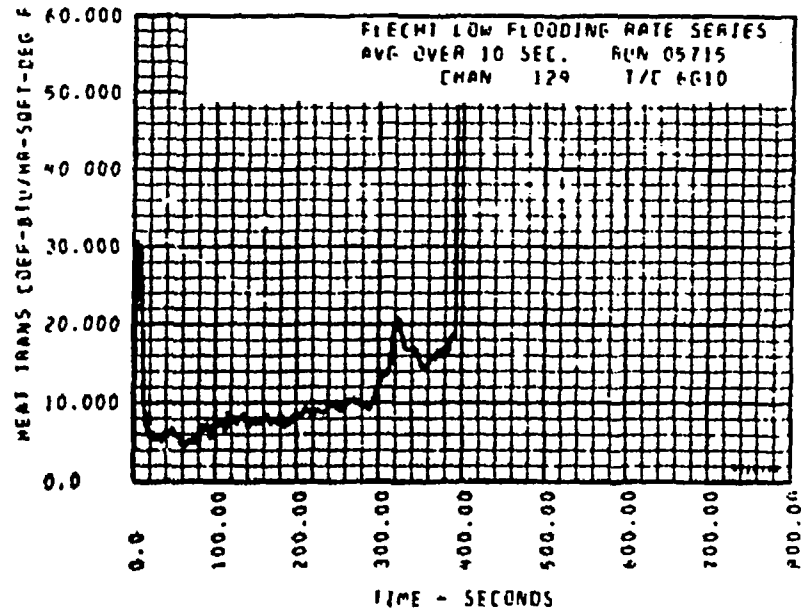
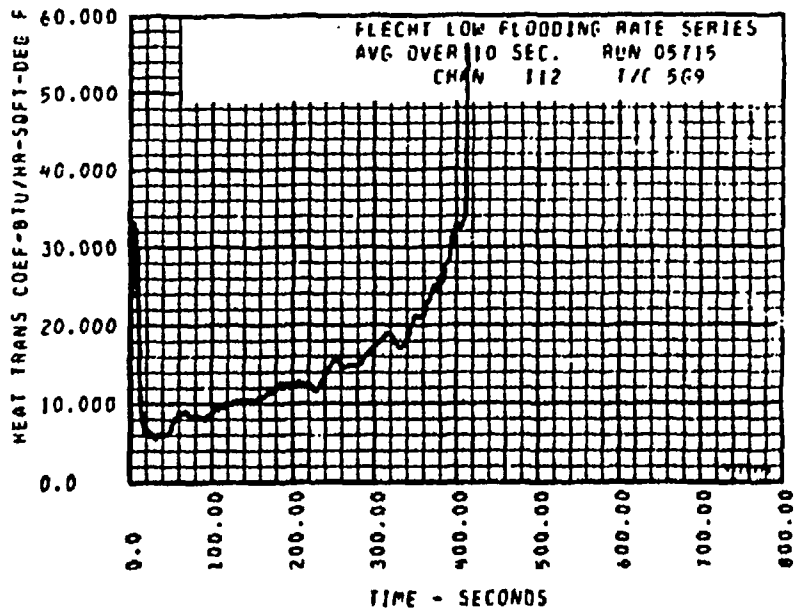
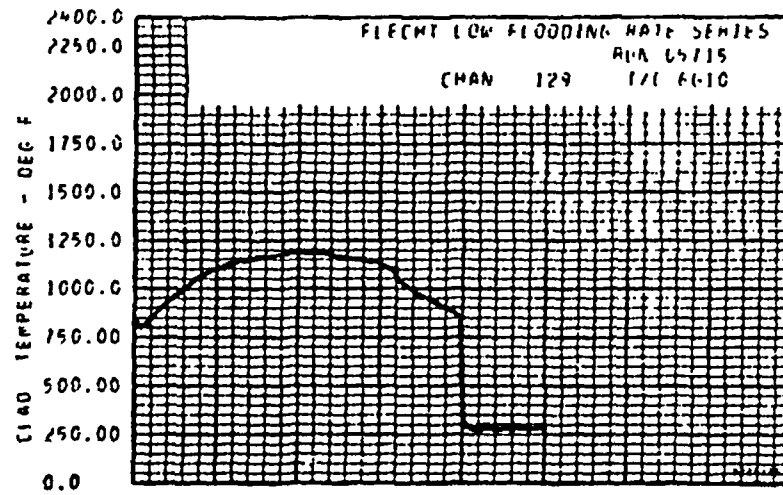
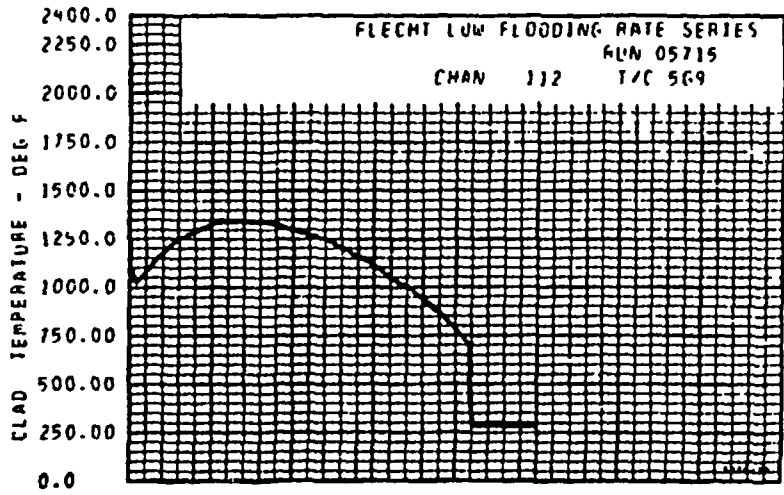
FLIGHT-LINER FLOWING RATE AND THERMOCOUPLE DATA

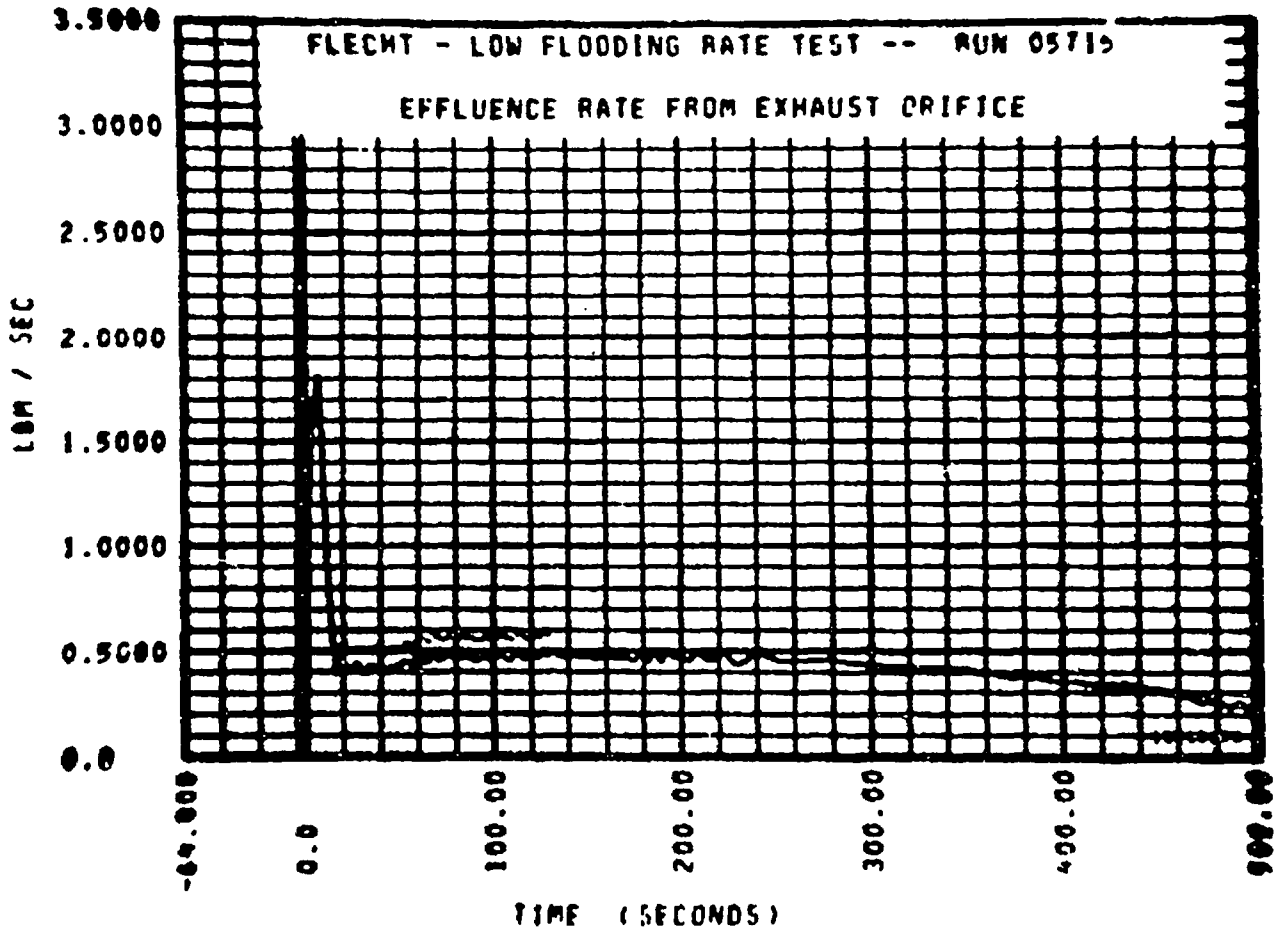
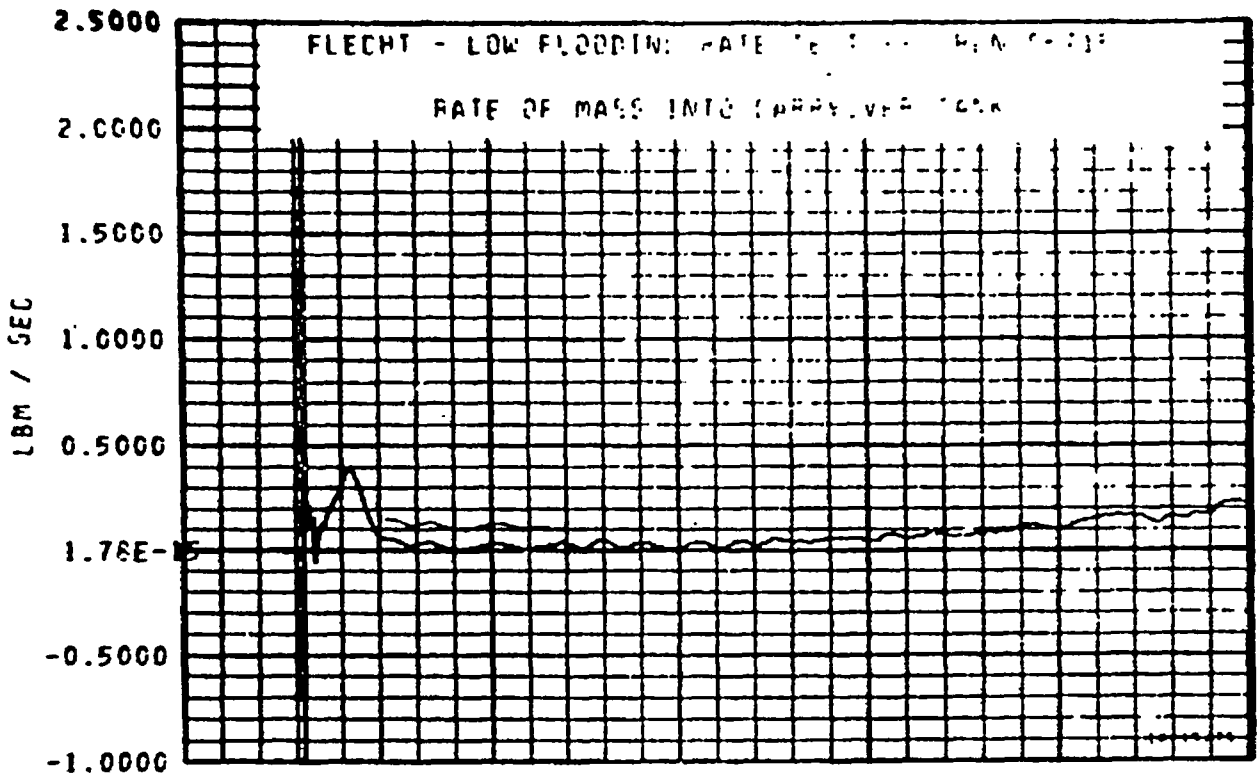
TEST NO.	OPERATION TIME (SEC.)	TIME OF DAY (HRS.)	TOTAL TEMPERATURE AT FLOW (DEG.F)	RUN NUMBER MAXIMUM TEMPERATURE (DEG.F)	TEMPERATURE RISE (DEG.F)	TRANSITION TIME (SEC.)	QUENCH TEMPERATURE (DEG.F)	QUENCH TIME (SEC.)
600	300	-50.0	400	610	30	0	500	1.0
601	300	-50.0	400	670	0	1.7	640	2.5
602	450	-50.0	710	710	0	1.2	600	3.0
603	450	-50.0	300	740	40	1.1	900	5.1
604	750	-50.0	1417	1000	870	43.4	644	135.0
605	750	-50.0	1403	1007	204	40.7	1103	257.6
606	1000	-50.0	1577	1041	204	40.4	950	240.0
607	1000	-50.0	1514	1080	476	117.0	1027	211.0
608	1000	-50.0	1304	1400	70	2.0	740	150.0
609	1000	-50.0	1244	1077	453	143.0	430	105.0
610	1000	-50.0	300	1070	500	100.0	470	440.0
611	1000	-50.0	717	1044	646	200.0	477	460.0
612	1000	-50.0	77	1100	500	200.0	710	105.0
613	1000	-50.0	207	104	207	210.0	201	2.4
614	1000	-50.0	600	600	0	0	600	0
615	1000	-50.0	600	600	0	0	600	1.7
616	1000	-50.0	600	600	0	1.0	600	2.5
617	1000	-50.0	0	0	0	0	0	0
618	1000	-50.0	114	1000	10	1.0	450	5.4
619	1000	-50.0	114	1000	10	1.0	700	40.5
620	1000	-50.0	1413	1000	0	47.4	700	141.0
621	1000	-50.0	1007	1000	207	100.0	1200	215.2
622	1000	-50.0	1007	1000	207	47.0	1000	214.0
623	1000	-50.0	1000	1000	207	110.0	1200	240.0
624	1000	-50.0	1410	1400	20	2.0	1100	262.1
625	1000	-50.0	1000	1000	200	100.0	1100	341.0
626	1000	-50.0	1000	1000	200	100.0	700	410.0
627	1000	-50.0	600	600	200	200.0	500	450.0
628	1000	-50.0	400	600	420	210.0	200	440.0
629	1000	-50.0	1000	1000	14	2.4	950	100.0
630	1000	-50.0	1000	1000	100	60.0	910	260.0
631	1000	-50.0	600	600	10	2.0	500	410.0
632	500	-50.0	900	900	0	1.4	300	5.1
633	500	-50.0	1000	1000	200	70.0	1000	257.0
634	500	-50.0	1000	1000	200	100.0	1000	320.0
635	500	-50.0	900	1000	200	100.0	900	277.0
6E6	645	-50.0	1400	1000	400	114.0	900	200.0
6E6.5	604	-50.0	1377	1777	401	113.0	1070	300.0
6E7	607	-50.0	1301	1441	70	87.4	1050	291.0
6E8	605	-50.0	1234	1720	400	177.0	900	300.0
6E9	414	-50.0	900	1400	500	194.0	700	420.0
6E10	287	-50.0	700	1412	700	210.0	810	430.0
6E11	270	-50.0	600	1210	610	230.0	870	370.0

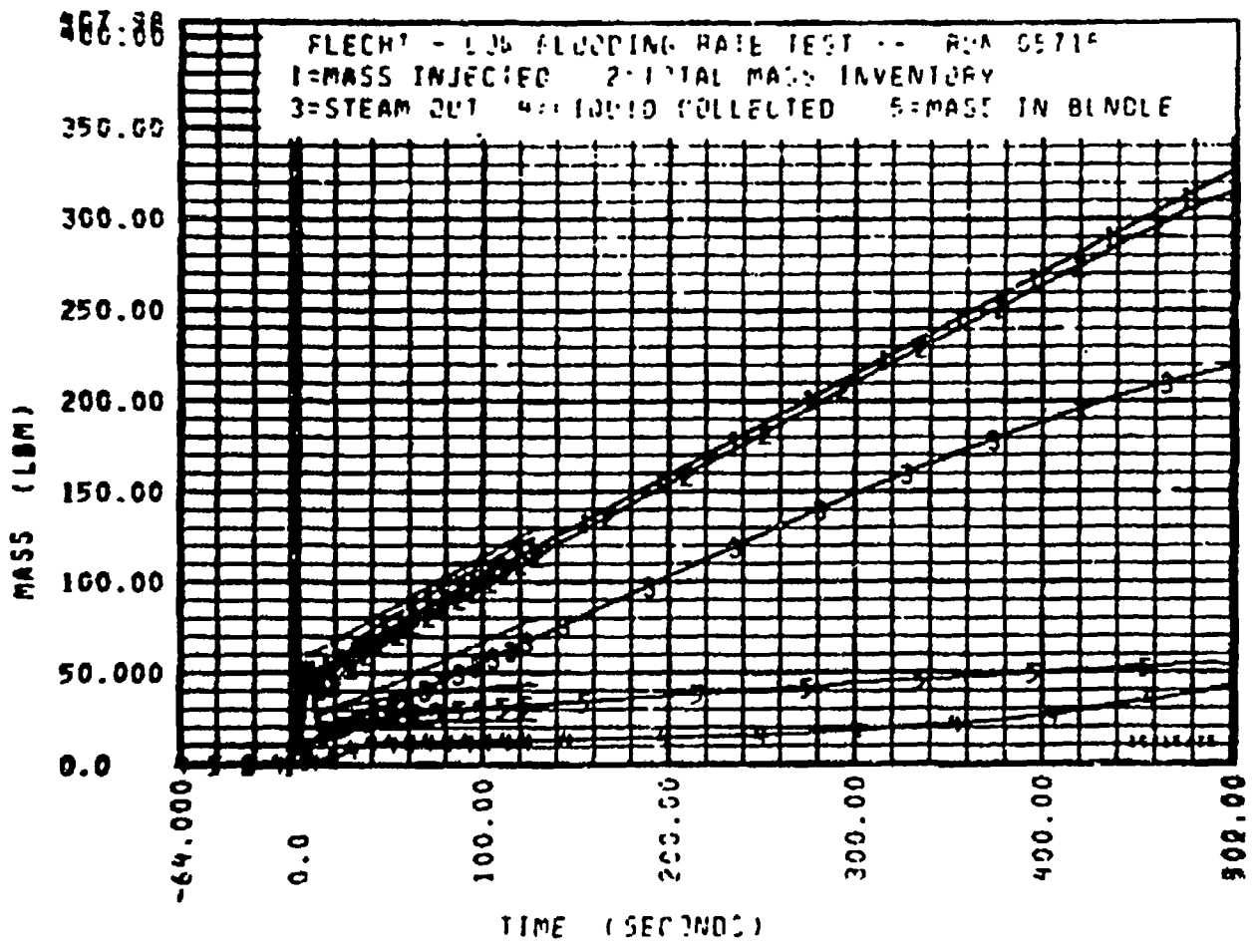


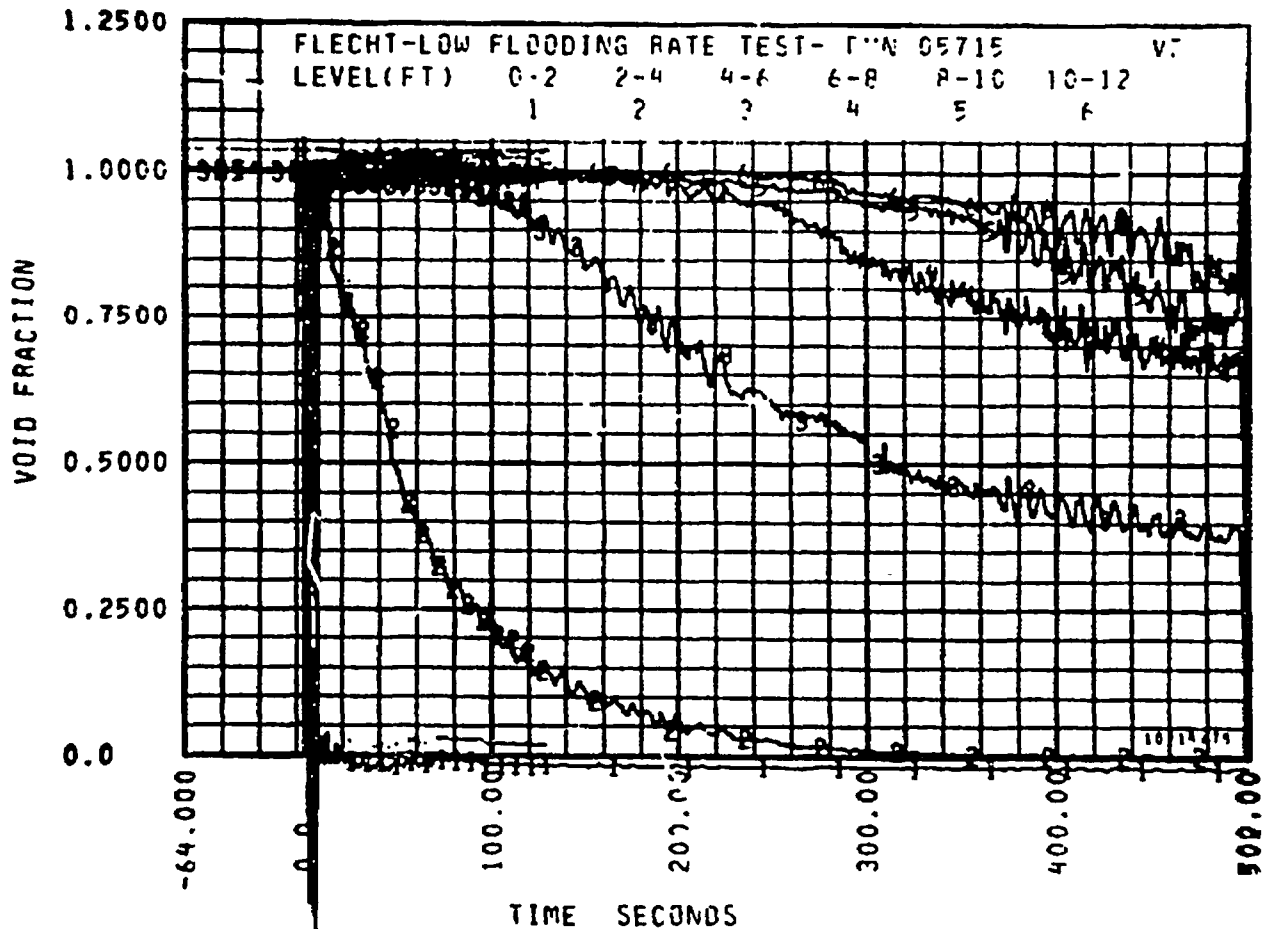
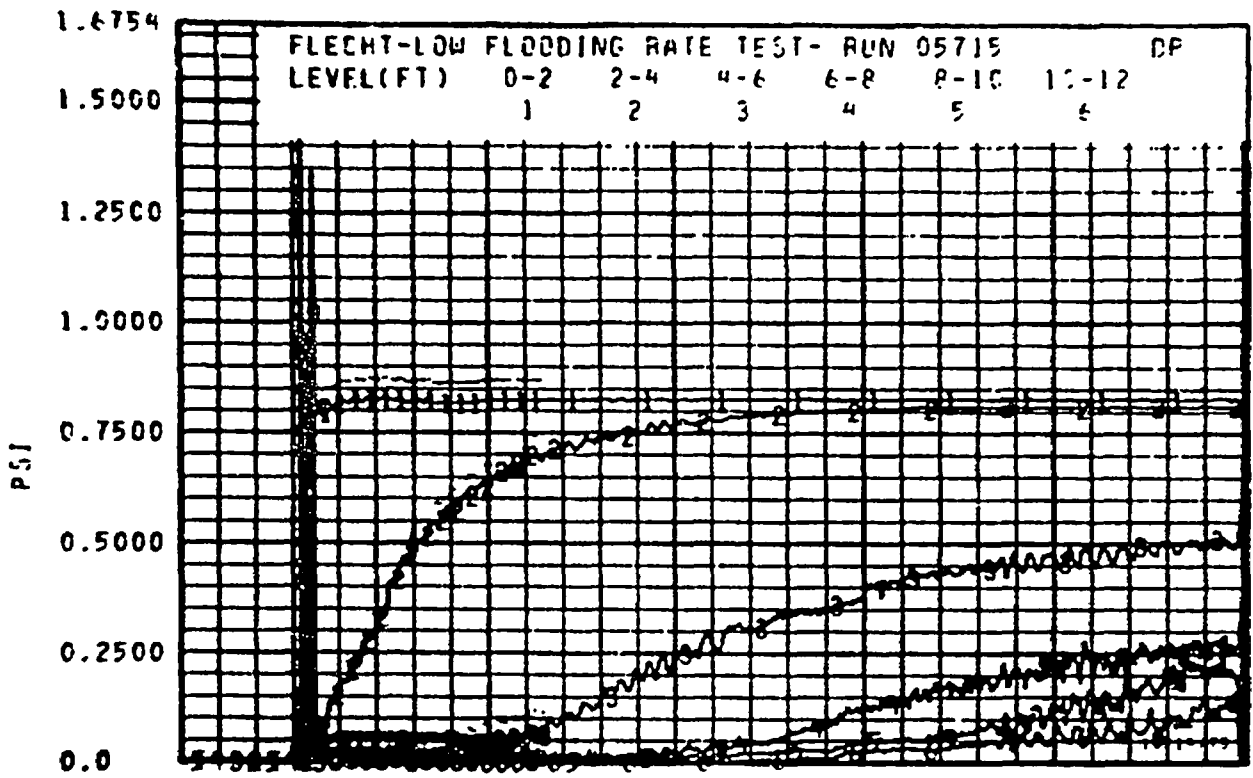


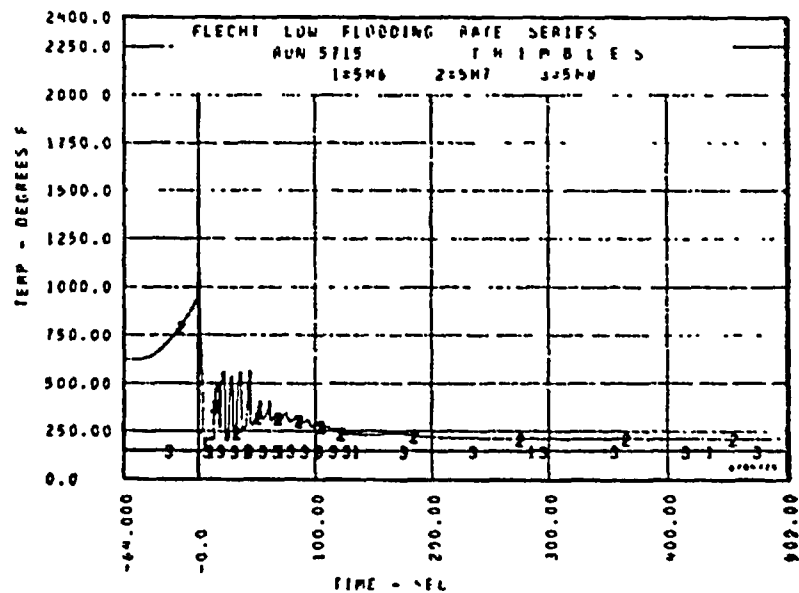
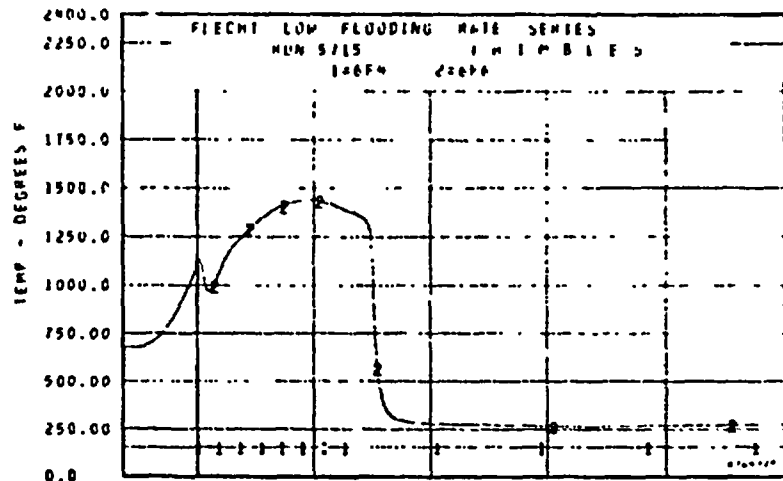
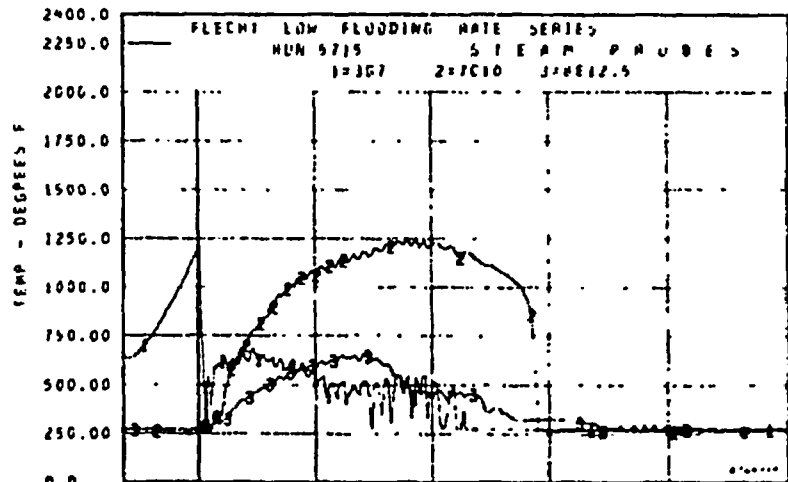


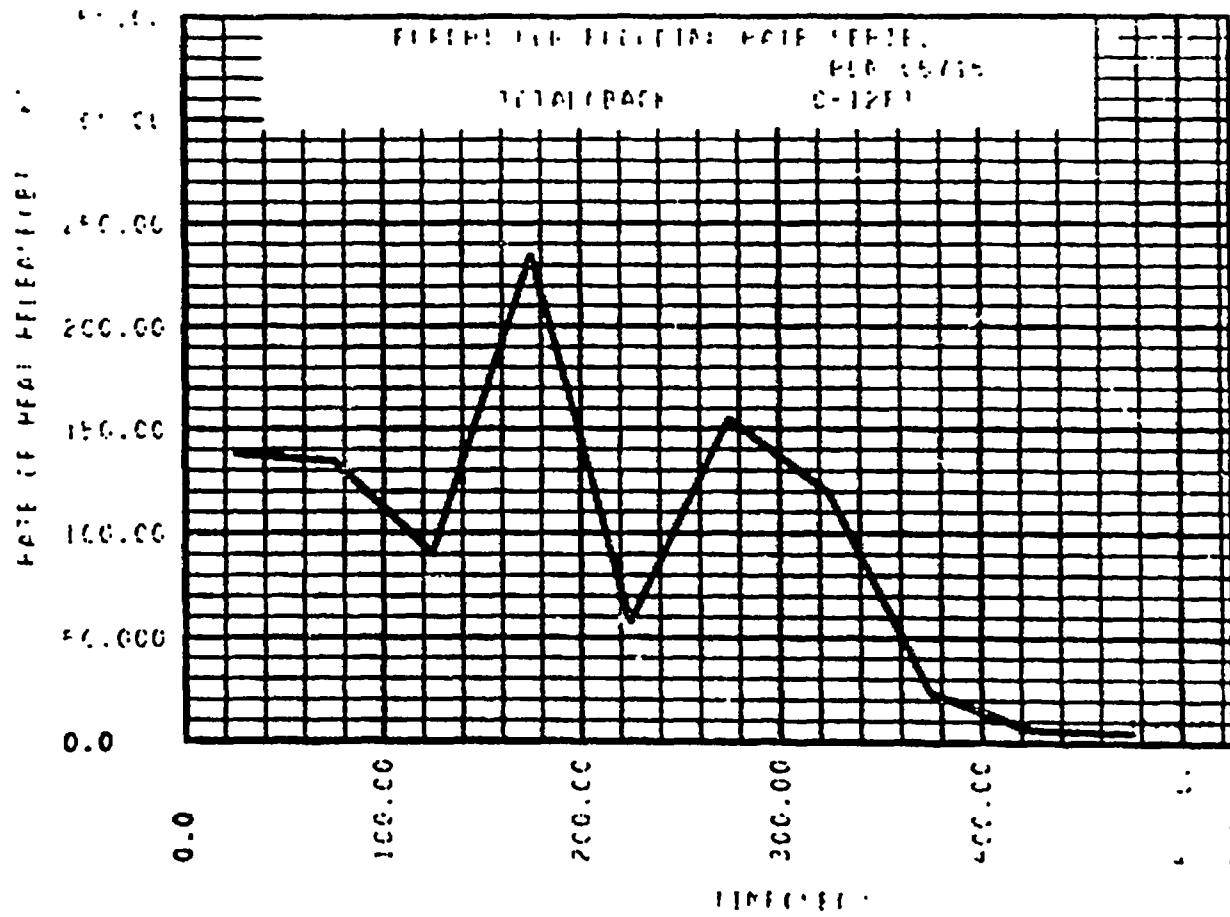
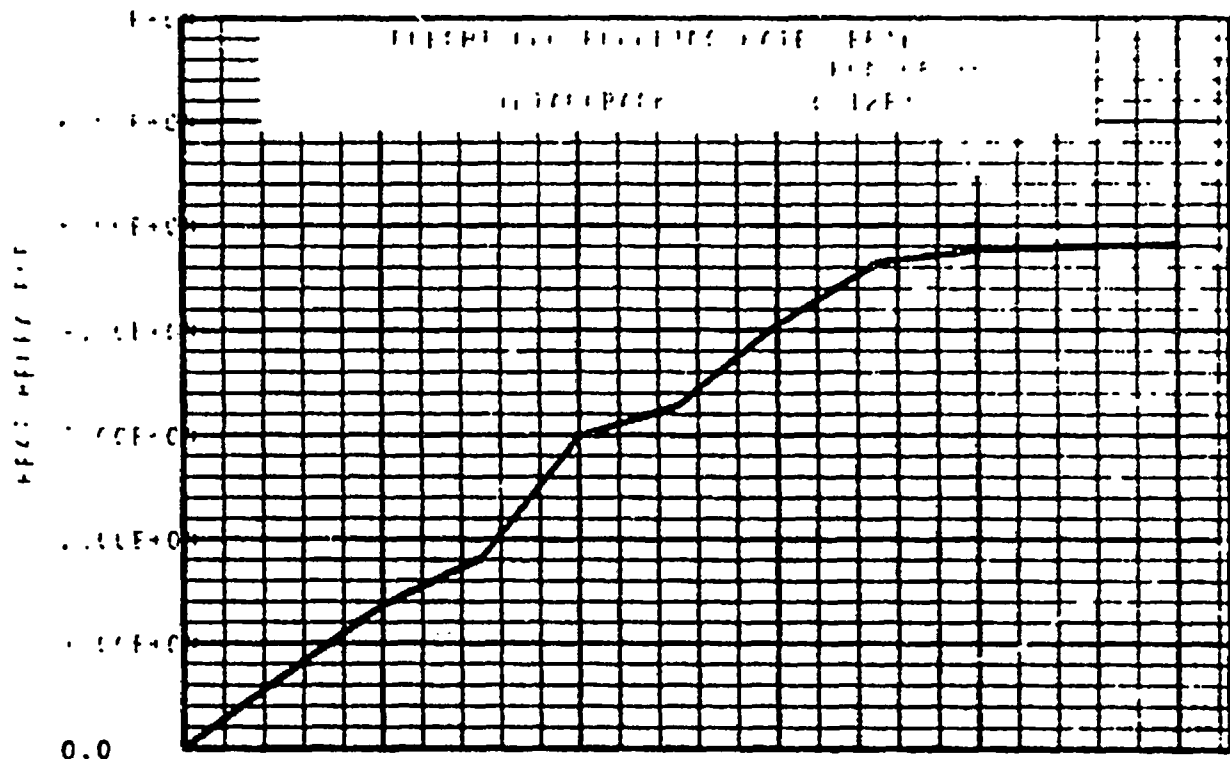












FLECHT - LOW FLOODING RATE TEST

SUMMARY SHEET

COSINE AXIAL POWER PROFILE

RUN NO. 05821

DATE: 6/3/75

A. RUN CONDITIO

Upper Plenum Pressure, psia	<u>62</u>	
Initial Clad Temperature (6 Ft) ^o F At Flood	<u>1,101</u>	Rod T/C <u>4G6</u>
Rod Peak Power, kw/ft	<u>0.77</u>	
Flooding Rate, in/sec	<u>FLECHT SET PHASE B</u>	
	<u>RUN 1001B</u>	
	<u>----</u>	
Coolant Temperature, ^o F	<u>147</u>	
Bundle Radial Power Profile	<u>FLECHT</u>	
Disconnected Rods	<u>7F</u>	

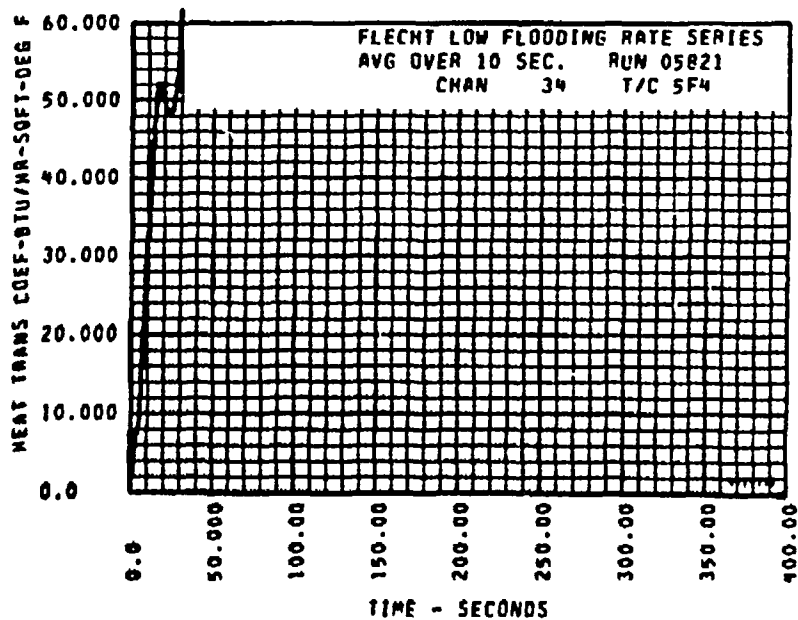
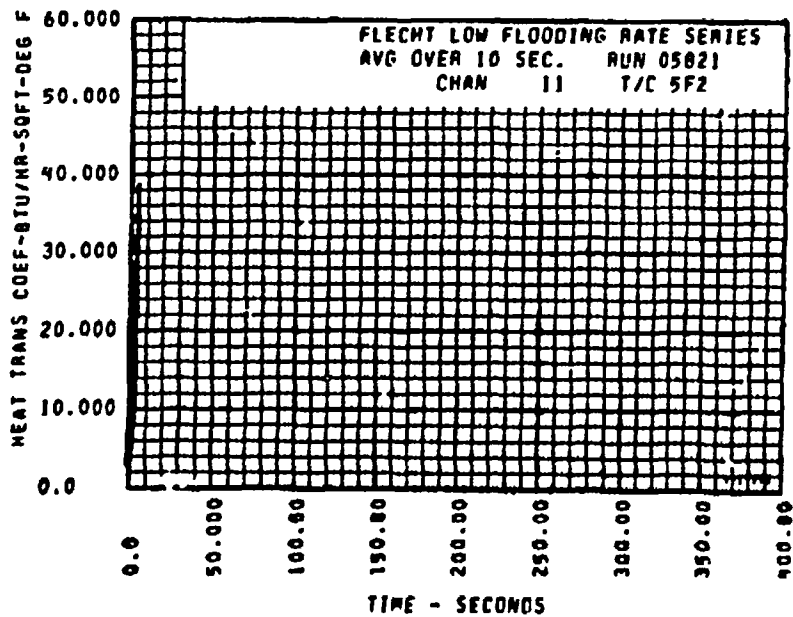
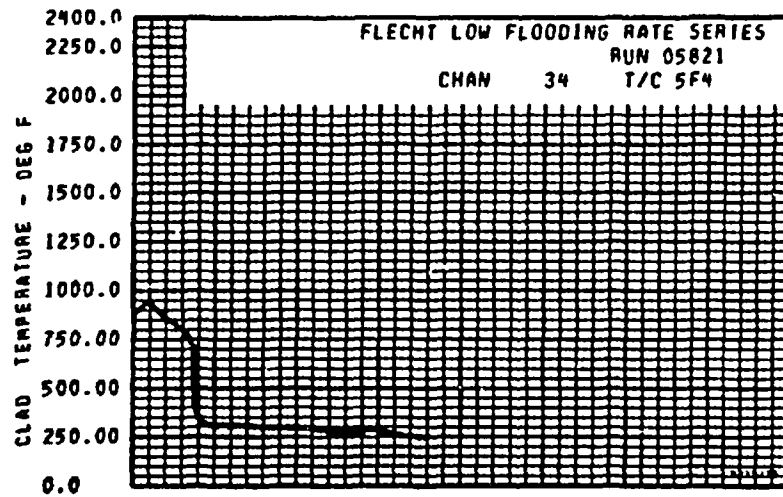
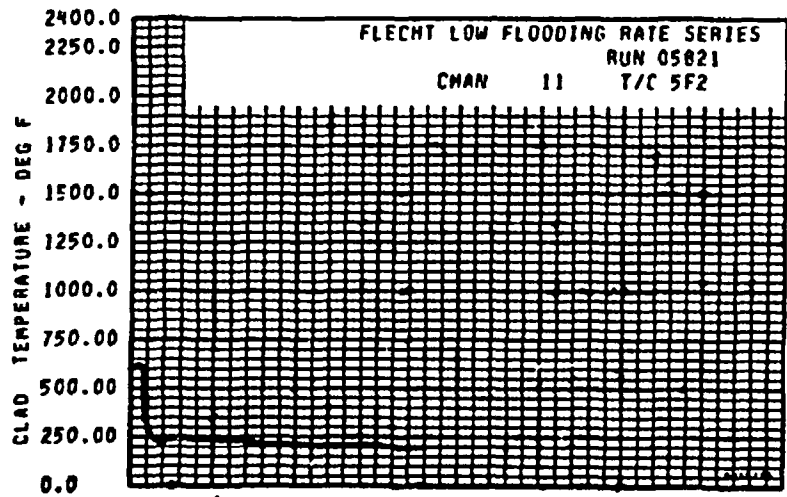
B. INITIAL HOUSING TEMPERATURE

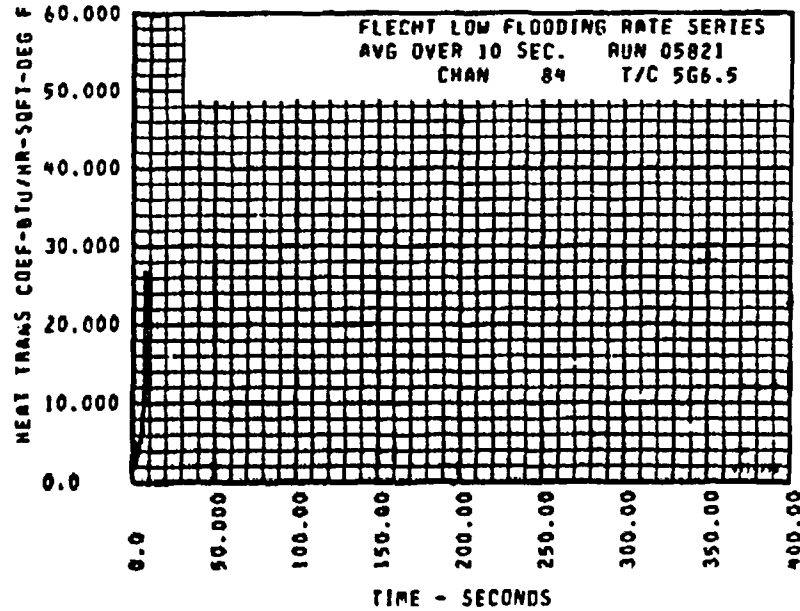
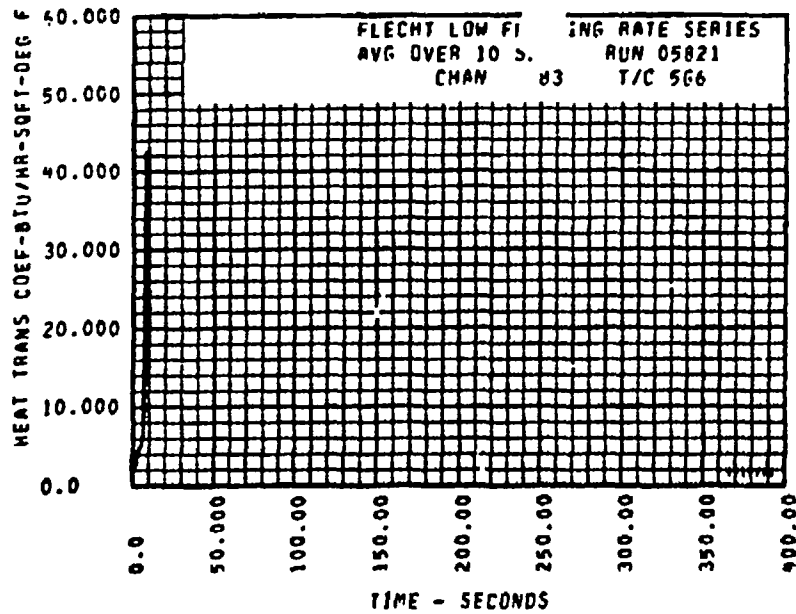
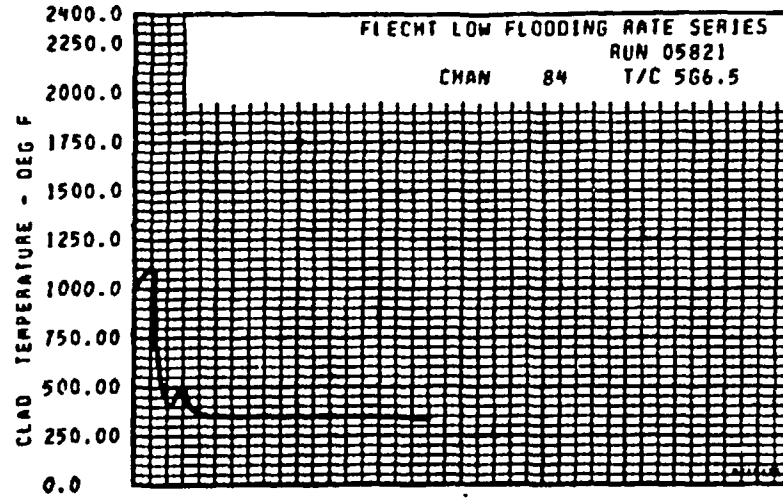
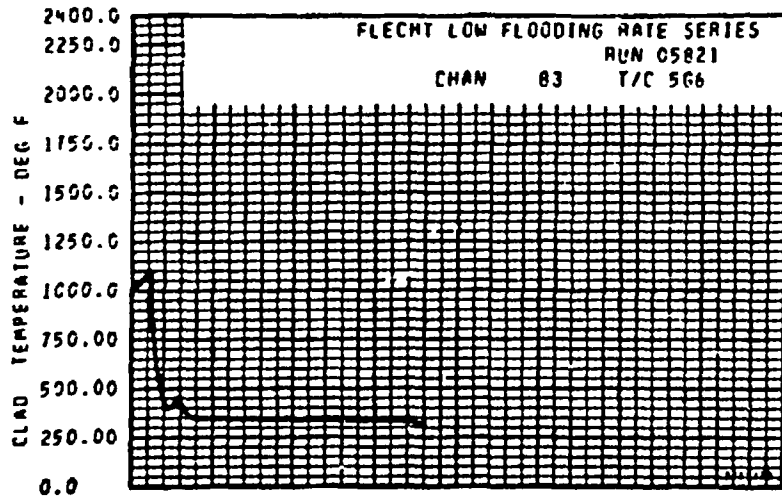
Back Side Elevation, Ft.	Temperature, ^o F
0	<u>300</u>
2	<u>339</u>
4	<u>455</u>
5.5	<u>511</u>
6	<u>524</u>
6.5	<u>445</u>
7	<u>429</u>
7.5	<u>421</u>
8	<u>437</u>
10	<u>379</u>
12	<u>297</u>
Average	<u>412</u>
Lower Plenum	<u>138</u>
Upper Plenum	<u>297</u>

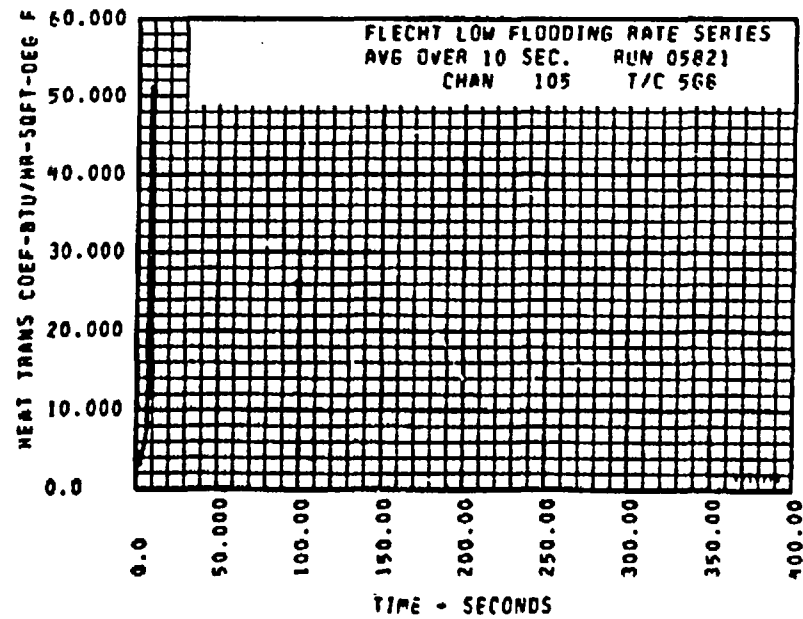
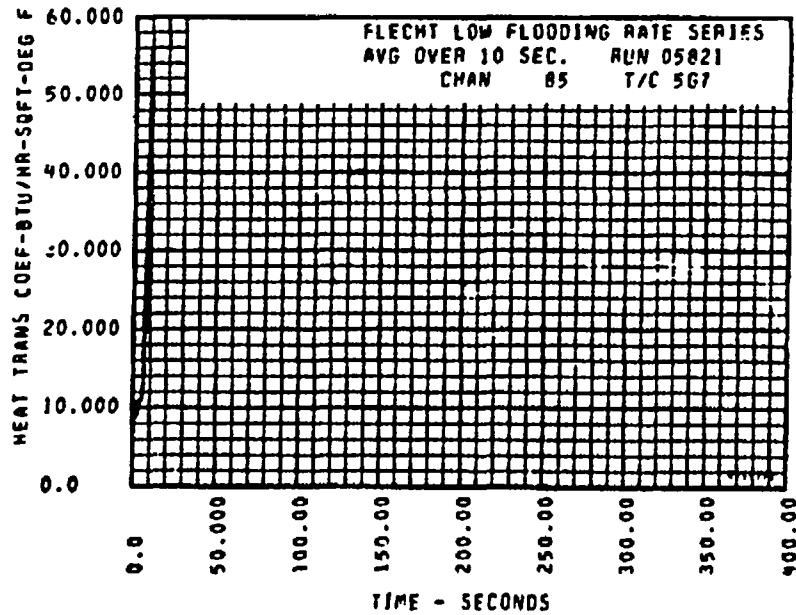
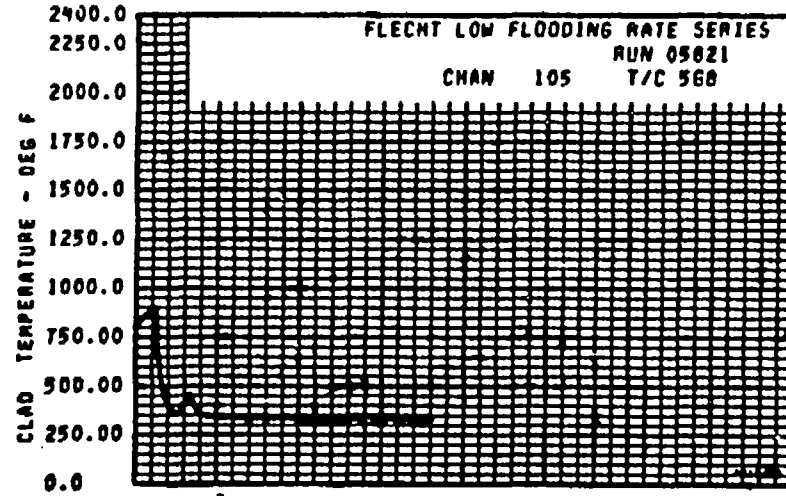
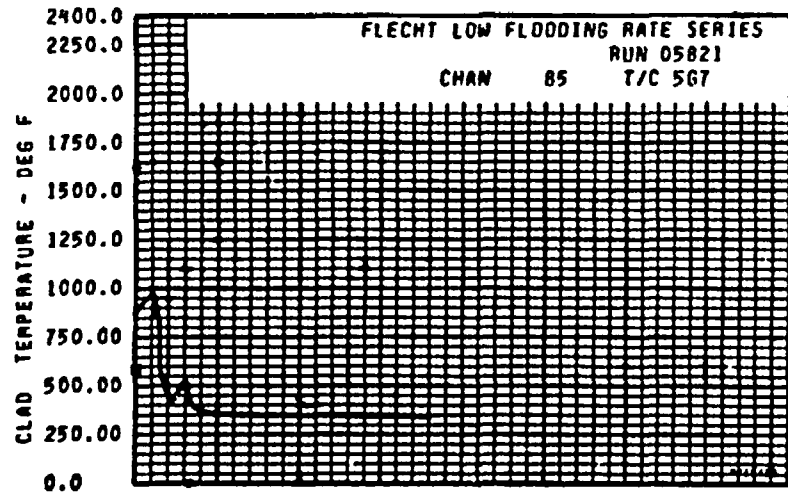
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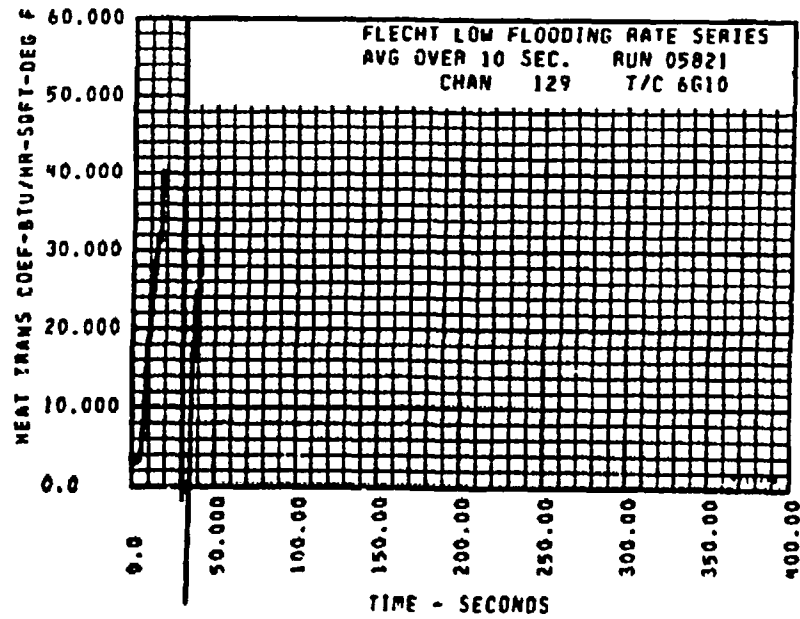
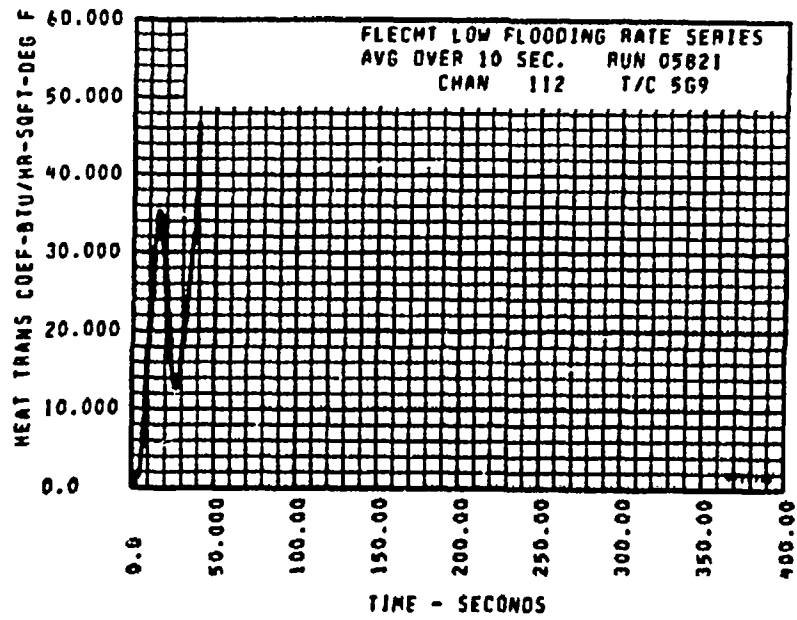
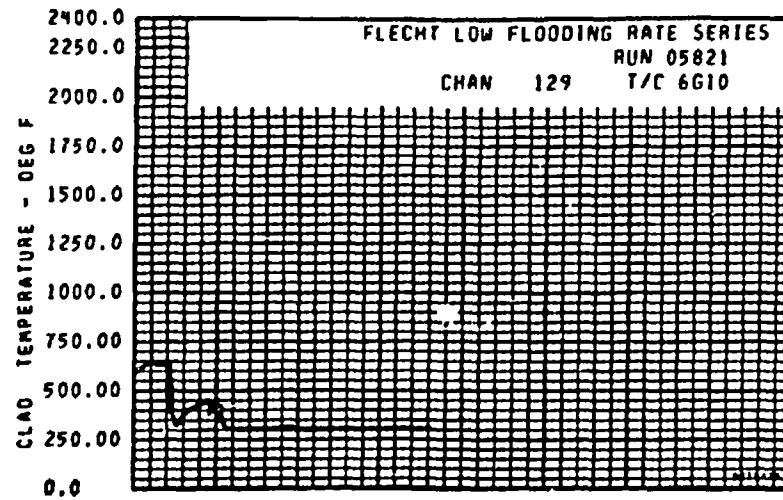
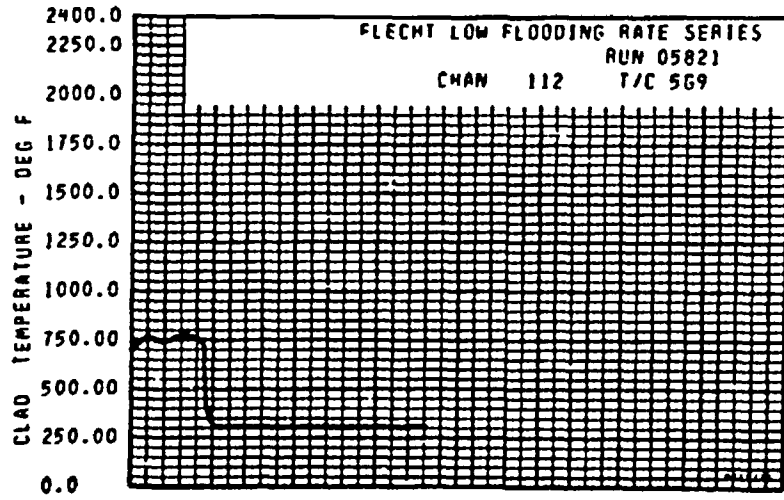
FLECHT-LOW FLOW TURBINE 300 MW: UC-NPLE DATA

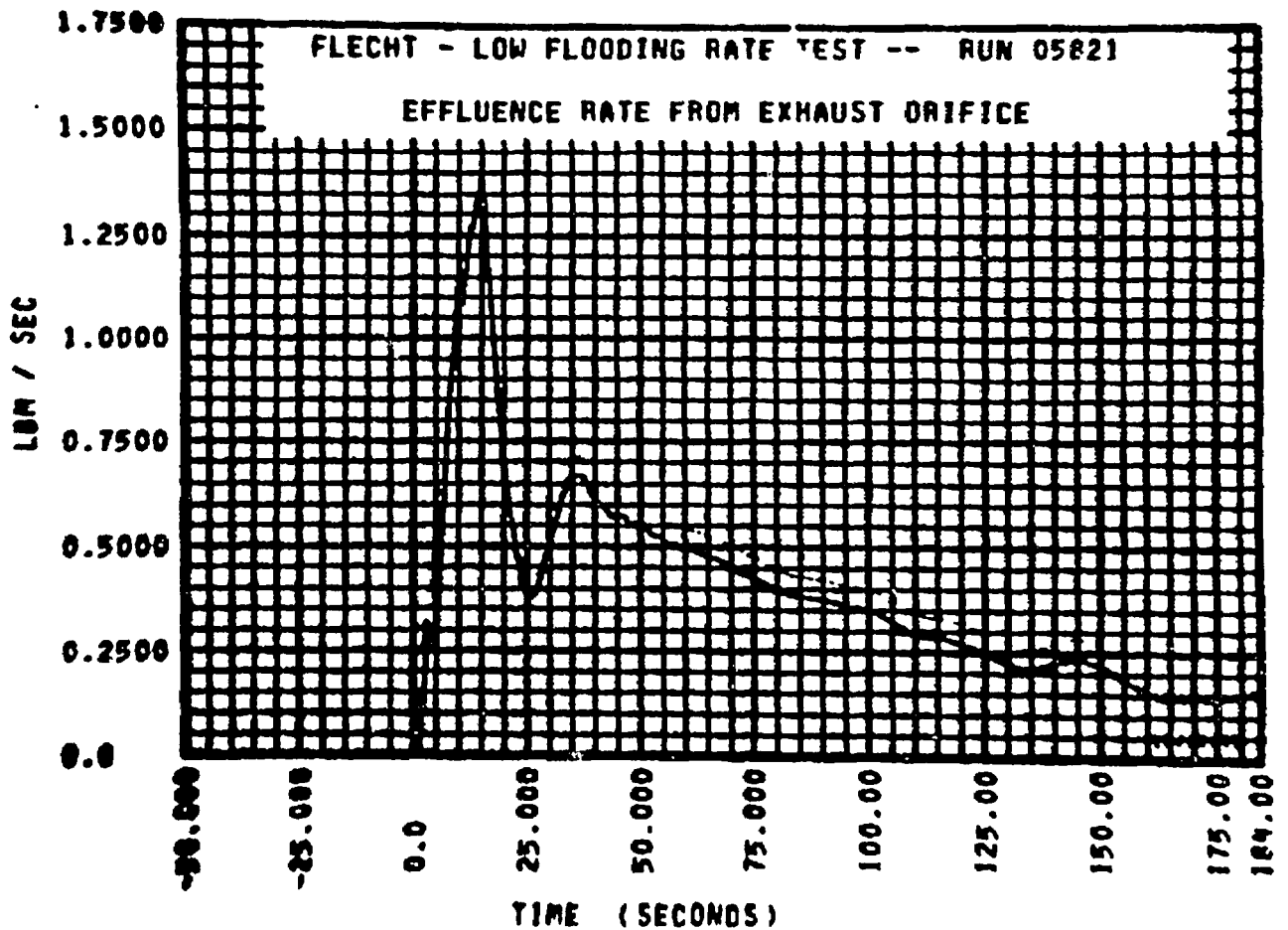
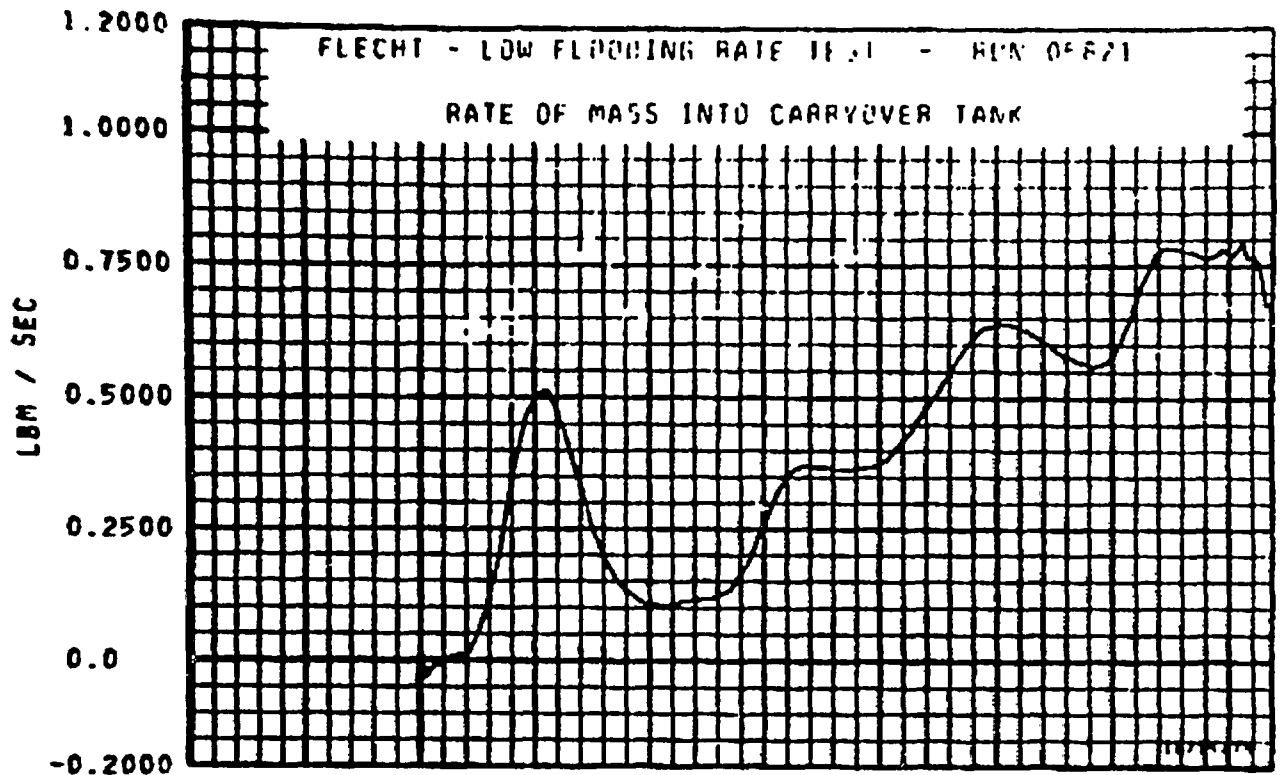
TEST NO.	TEMPERATURE AT INLET (DEG.F)	TEMPERATURE AT OUTLET (DEG.F)	TOTAL FLOW (GPM)	MAXIMUM TEMPERATURE (DEG.F)	MINIMUM TEMPERATURE (DEG.F)	TIME-TO-START (SEC)	QUENCH FL. (DEG.F)	QUENCH TIME (SEC)
441.5	788.	-45.7	471.	509.	17.	2.9	537.	4.5
441	788.	-45.7	507.	514.	12.	7.4	511.	5.0
441.5	772.	-45.7	437.	504.	17.	7.6	504.	5.4
441	777.	-46.7	491.	481.	25.	7.8	629.	9.3
446	767.	-45.7	447.	1021.	77.	0.6	745.	40.7
446	741.	-45.7	1011.	1221.	127.	22.4	1004.	46.5
474	771.	-45.7	974.	1009.	157.	30.9	1265.	37.7
474.5	775.	-43.7	794.	1047.	174.	32.4	1027.	45.2
477	777.	-45.7	447.	977.	97.	10.6	907.	15.7
478	787.	-45.7	797.	894.	04.	10.6	559.	14.1
478	788.	-44.7	711.	788.	74.	10.4	756.	14.0
478.5	788.	-45.7	577.	688.	101.	45.0	677.	71.7
478.5	777.	-46.7	497.	537.	43.	10.4	528.	12.1
478.5	771.	-47.7	271.	277.	11.	7.4	274.	10.7
578	787.	-45.7	417.	410.	7.	1.0	414.	1.7
578.5	788.	-45.7	531.	511.	17.	2.6	517.	7.7
578.5	788.	-45.7	477.	511.	17.	7.8	517.	4.2
578.5	777.	-45.7	477.	677.	27.	5.0	617.	7.9
578	770.	-45.7	774.	780.	44.	6.2	717.	12.5
578	747.	-45.7	877.	144.	74.	7.6	722.	37.2
578	777.	-45.7	977.	1097.	117.	10.6	1548.	12.7
678	757.	-45.7	771.	1107.	171.	11.4	1099.	11.9
678.5	774.	-45.7	1071.	1117.	114.	10.6	476.	32.2
678	774.	-45.7	777.	987.	17.	10.4	978.	12.5
678	777.	-45.7	887.	804.	103.	11.4	895.	12.3
678	777.	-45.7	677.	770.	85.	31.4	777.	44.5
678.5	777.	-45.7	494.	534.	67.	10.6	376.	74.9
678.5	788.	-45.7	457.	401.	45.	19.6	443.	15.1
778	766.	-45.7	771.	872.	57.	9.4	757.	31.2
778	741.	-45.7	1767.	1167.	77.	27.4	761.	92.7
778	747.	-45.7	574.	677.	57.	10.6	578.	39.7
847	771.	-45.7	477.	657.	27.	4.6	640.	8.2
848	767.	-45.7	1767.	1187.	171.	31.7	1034.	47.3
848	771.	-45.7	864.	761.	97.	11.0	303.	16.7
848	781.	-45.7	677.	727.	174.	45.7	717.	50.8

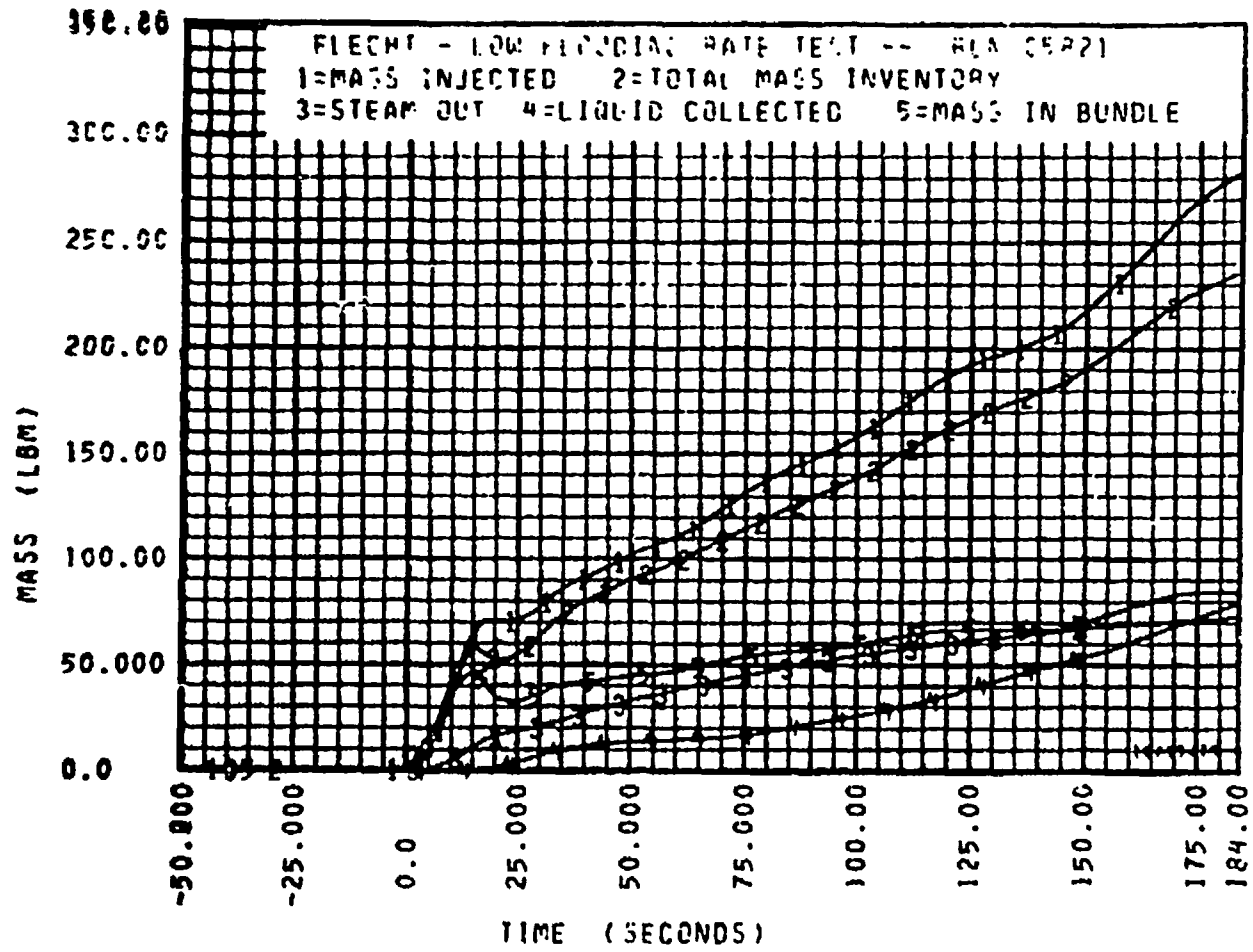


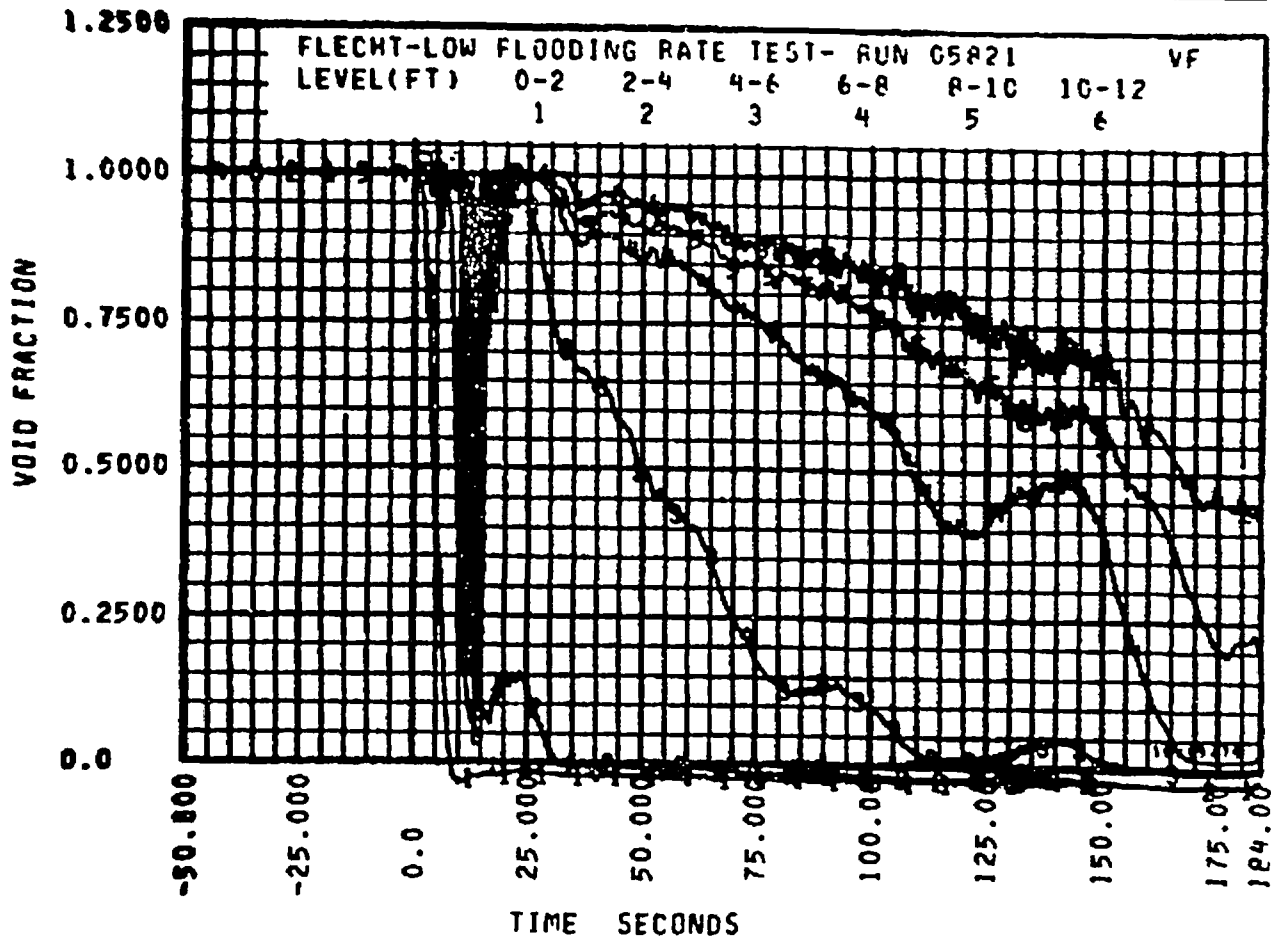
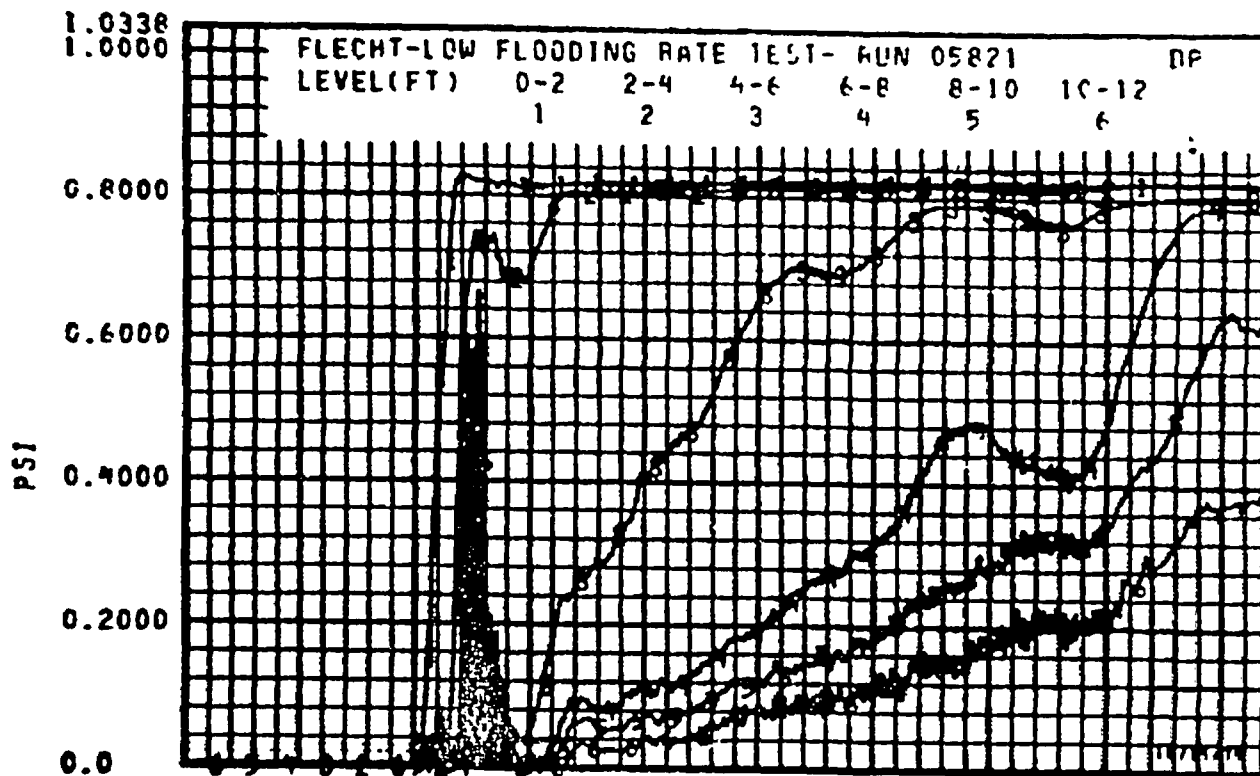


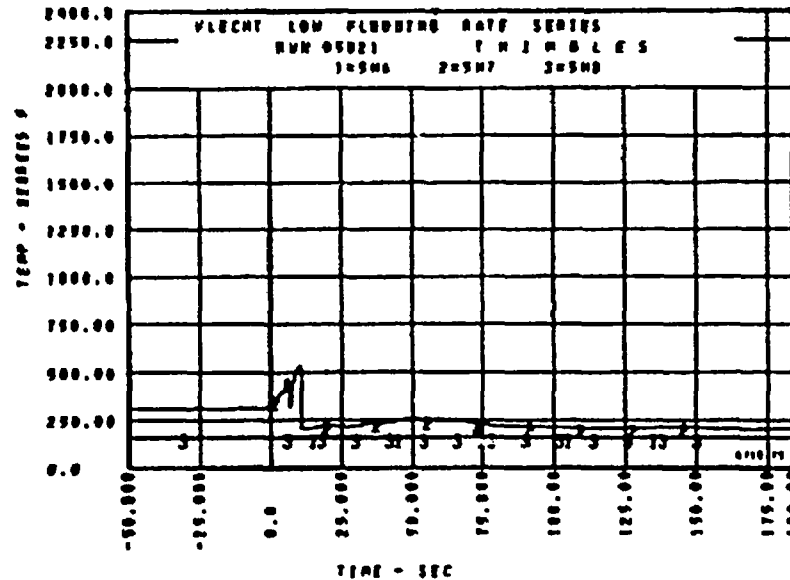
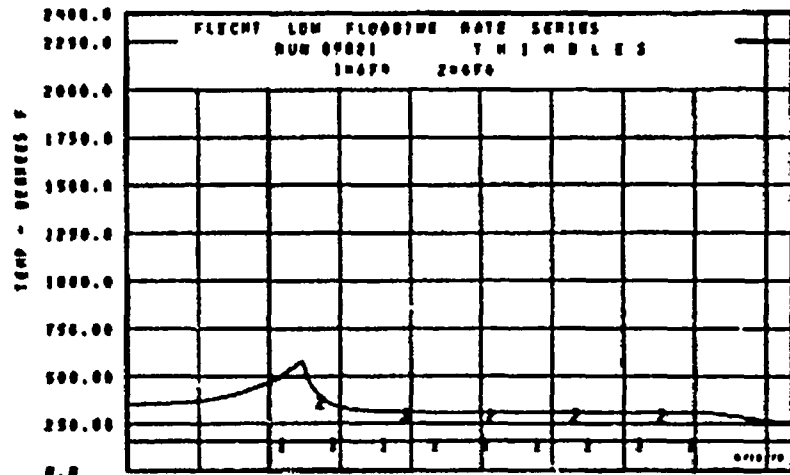
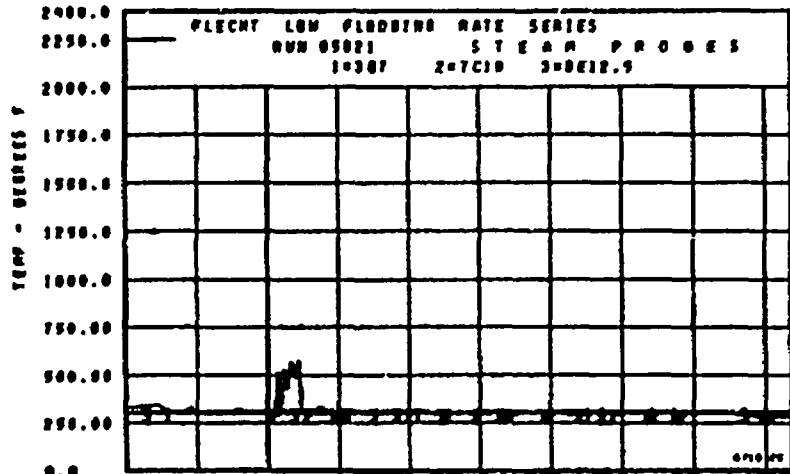


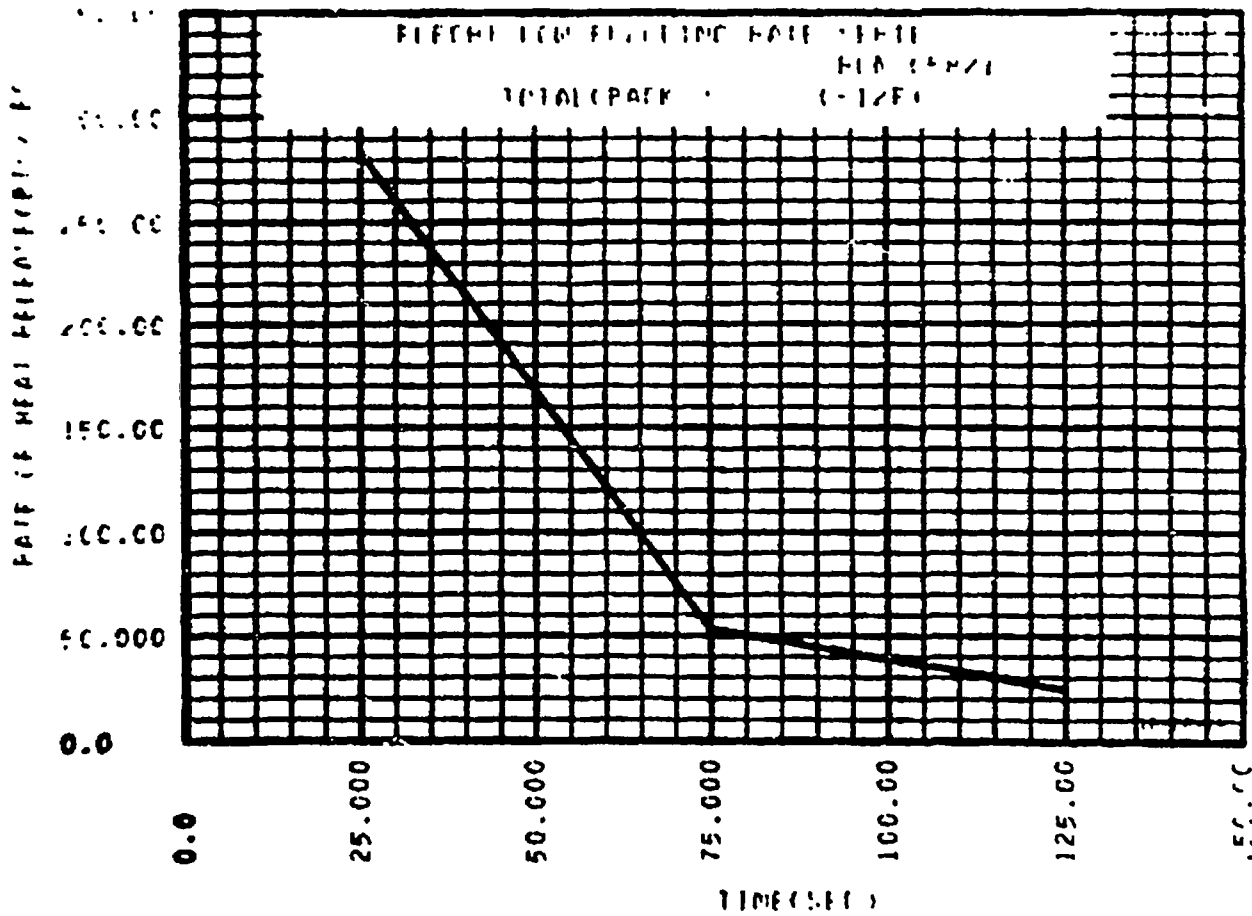
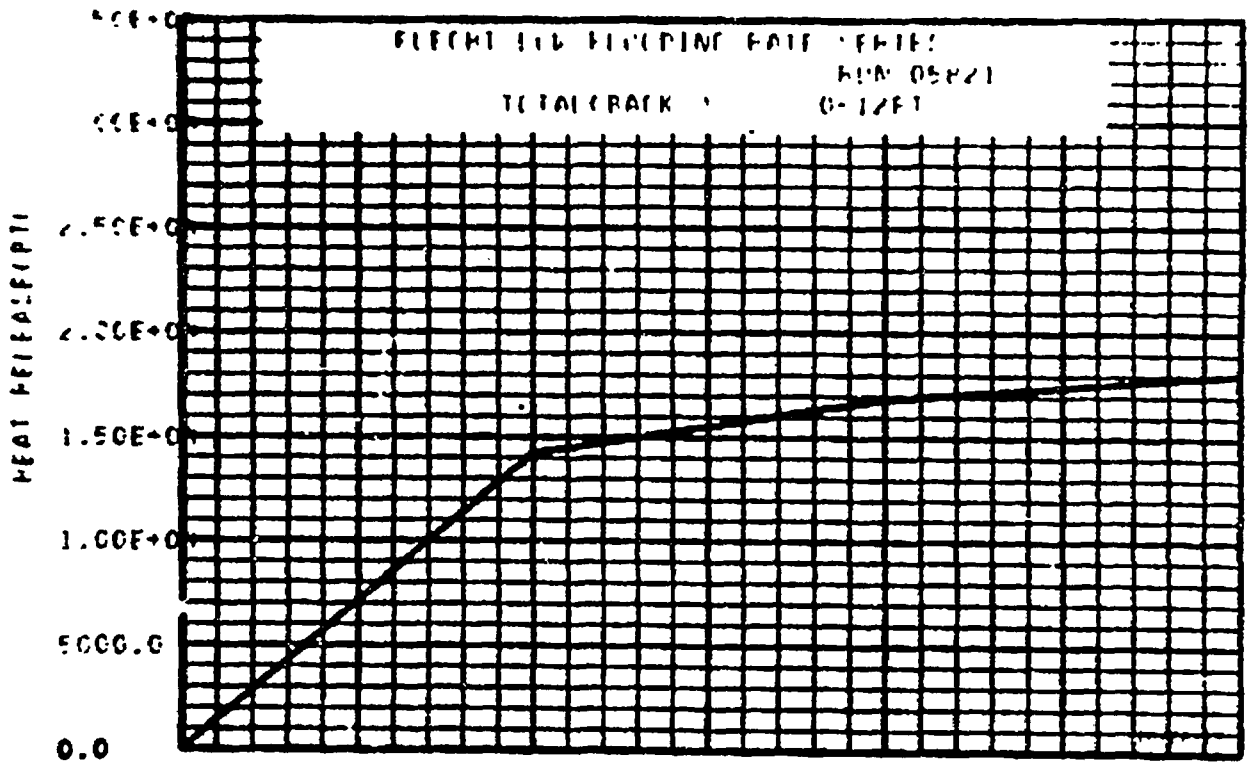












FLECHT - LOW FLOODING RATE TEST

SUMMARY SHEET

COSINE AXIAL POWER PROFILE

RUN NO. 05917

DATE: 6/4/75

A. RUN CONDITIONS

Upper Plenum Pressure, psia	<u>40</u>	
Initial Clad Temperature (6 Ft)°F At Flood	<u>1,600</u>	Rod T/C <u>4H6</u>
Rod Peak Power, kw/ft	<u>0.95</u>	
Flooding Rate, in/sec	<u>13 (4.6 sec)</u>	
	<u>0.77</u>	
	<u>---</u>	
Coolant Temperature, °F	<u>126</u>	
Bundle Radial Power Profile	<u>FLECHT</u>	
Disconnected Rods	<u>7F</u>	

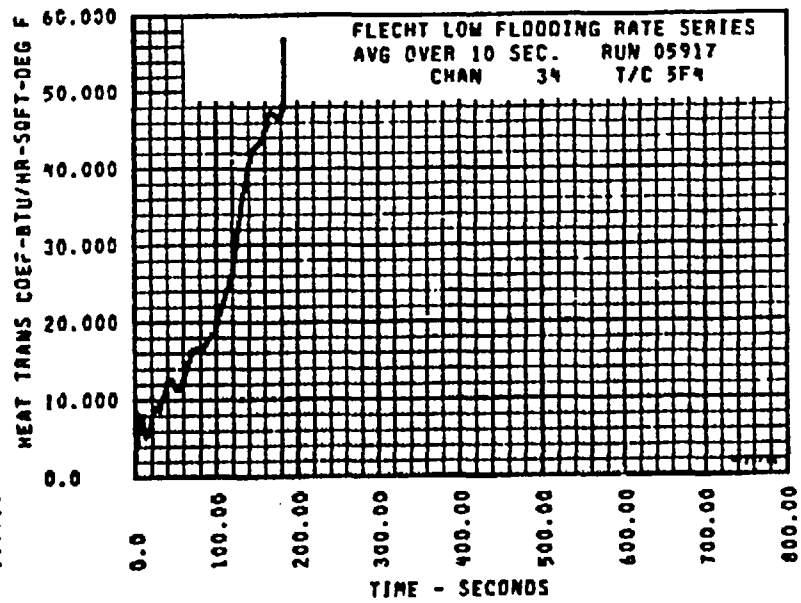
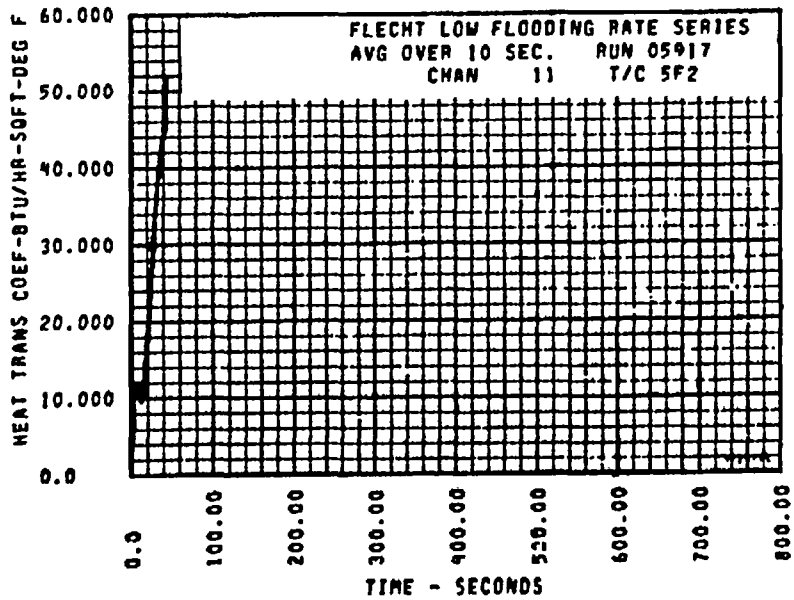
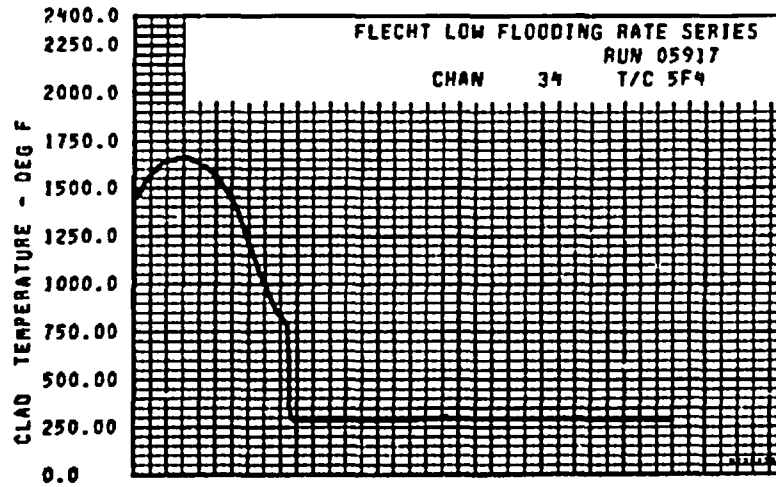
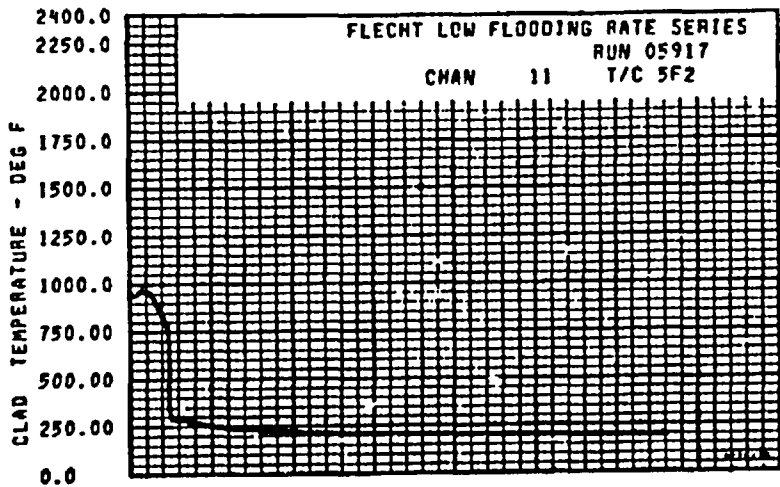
B. INITIAL HOUSING TEMPERATURE

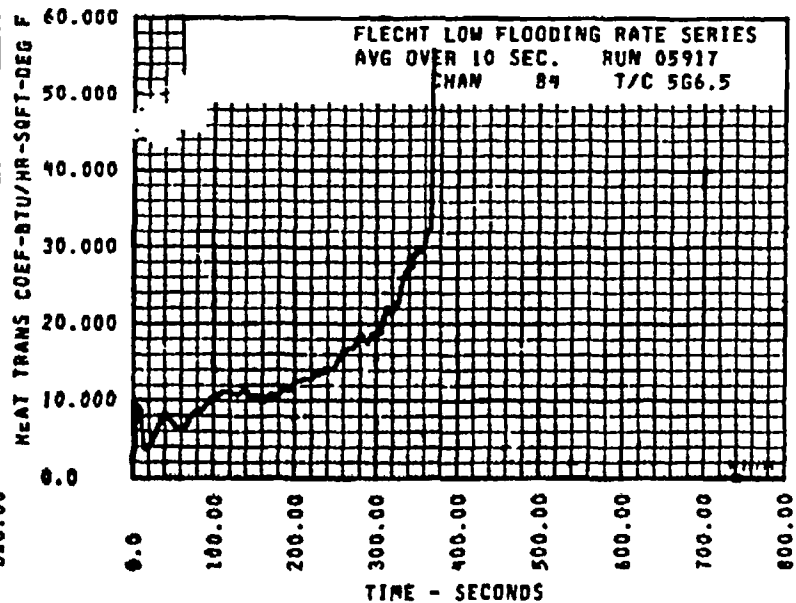
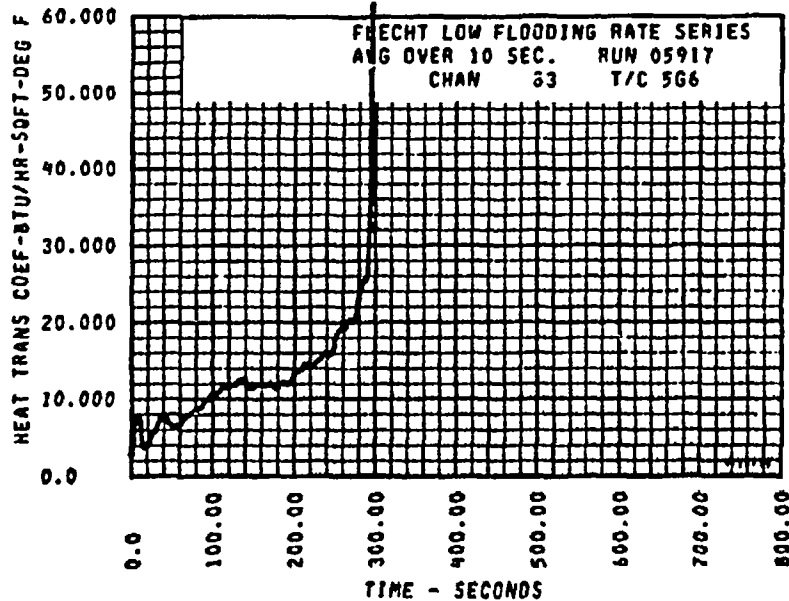
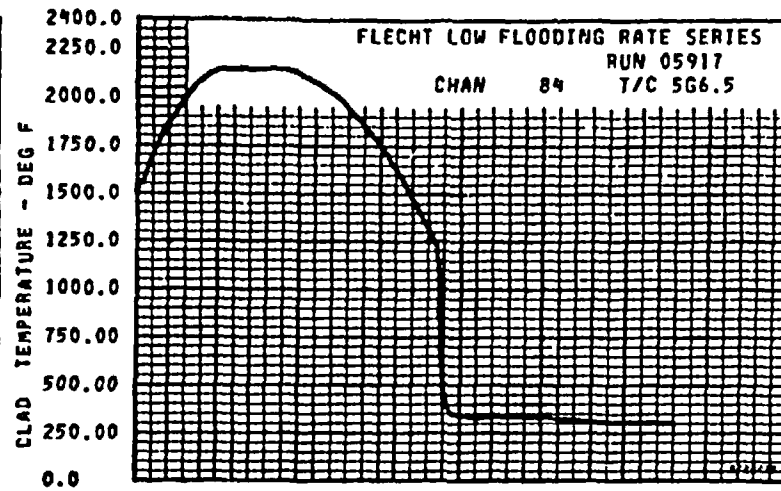
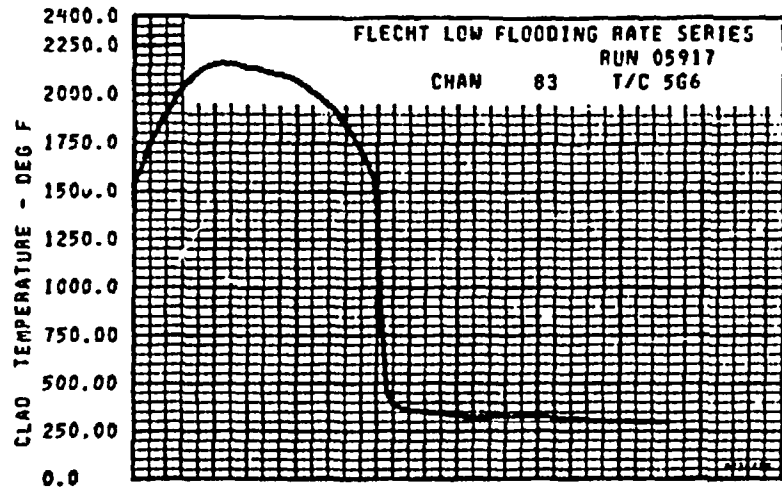
Back Side Elevation, Ft.	Temperature, °F
0	<u>274</u>
2	<u>600</u>
4	<u>765</u>
5.5	<u>826</u>
6	<u>820</u>
6.5	<u>677</u>
7	<u>685</u>
7.5	<u>711</u>
8	<u>772</u>
10	<u>614</u>
12	<u>279</u>
Average	<u>638</u>
Lower Plenum	<u>122</u>

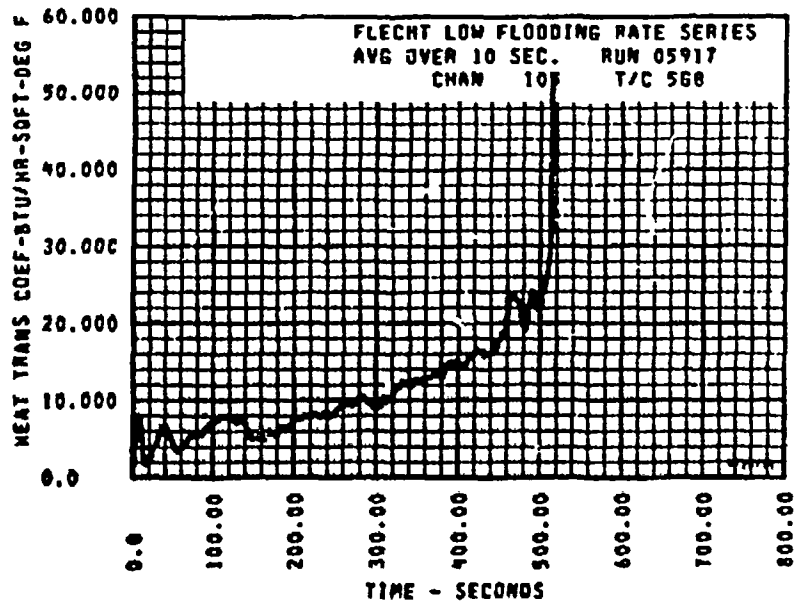
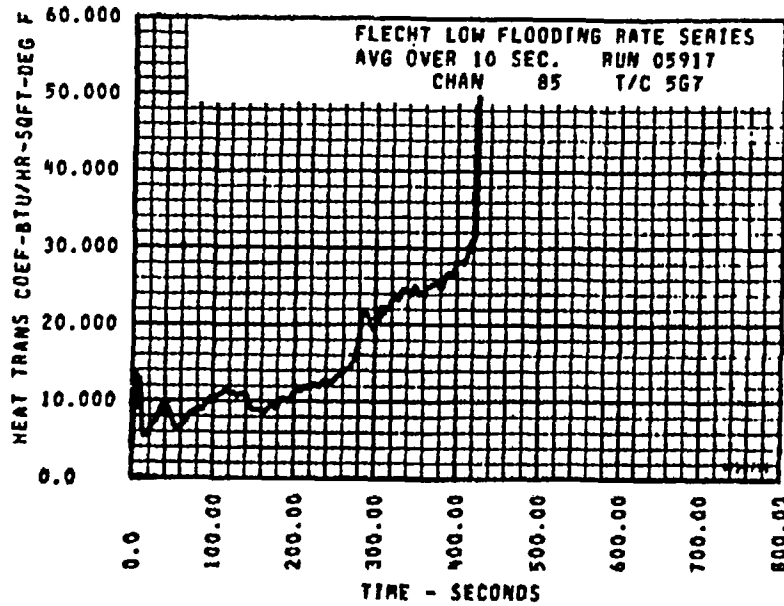
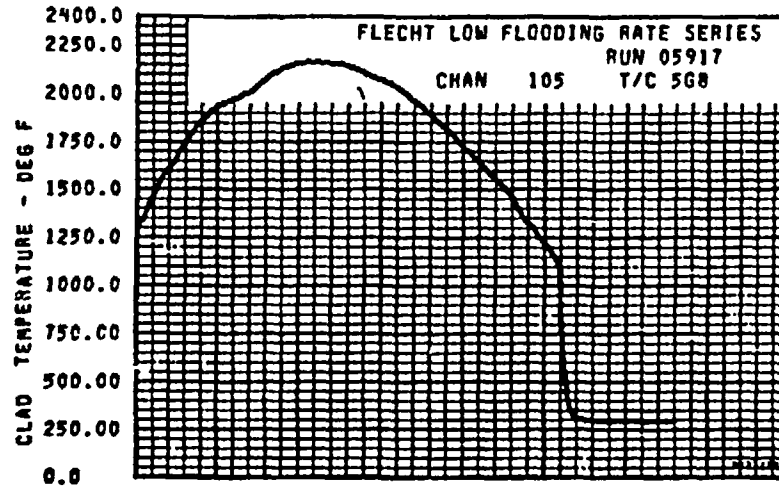
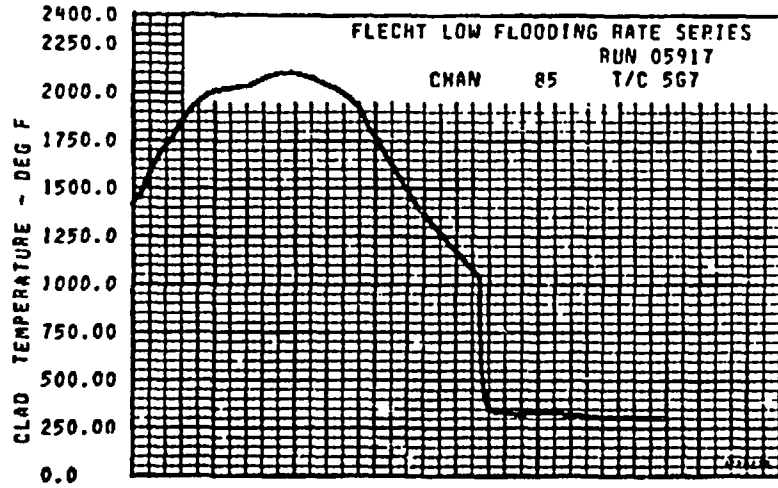
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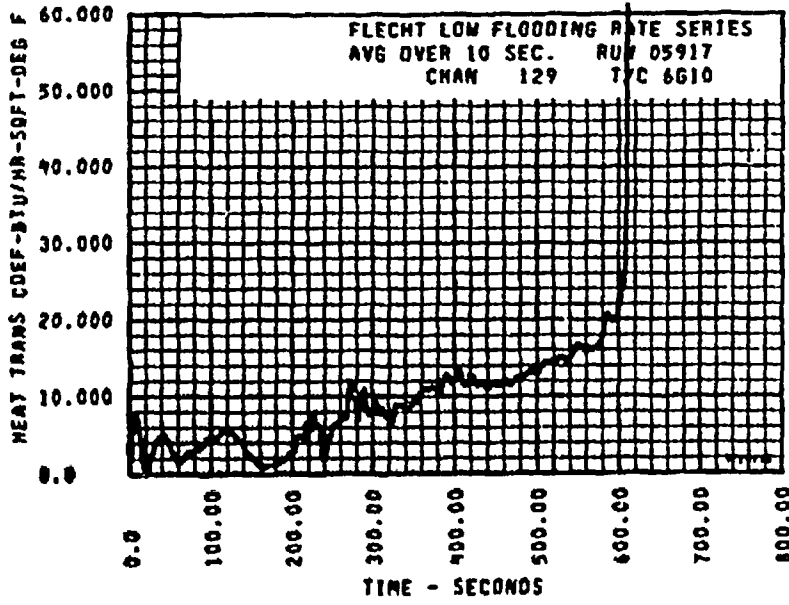
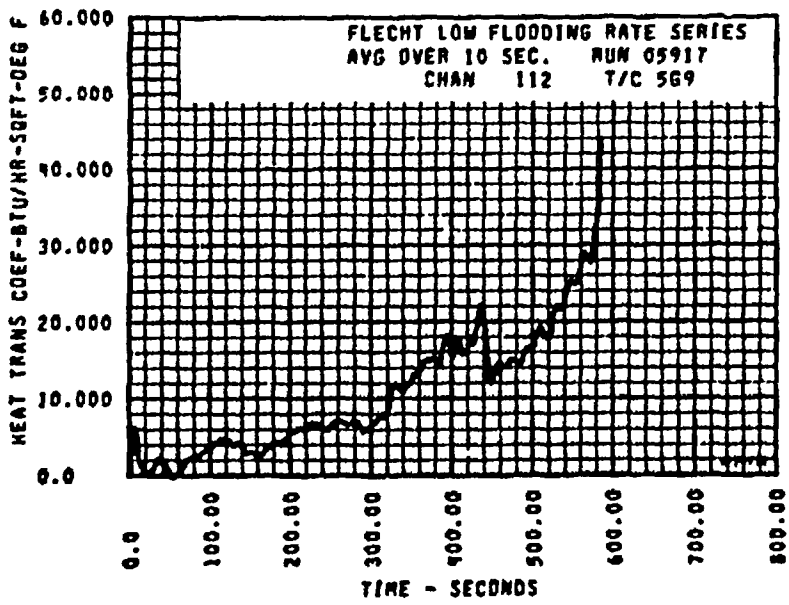
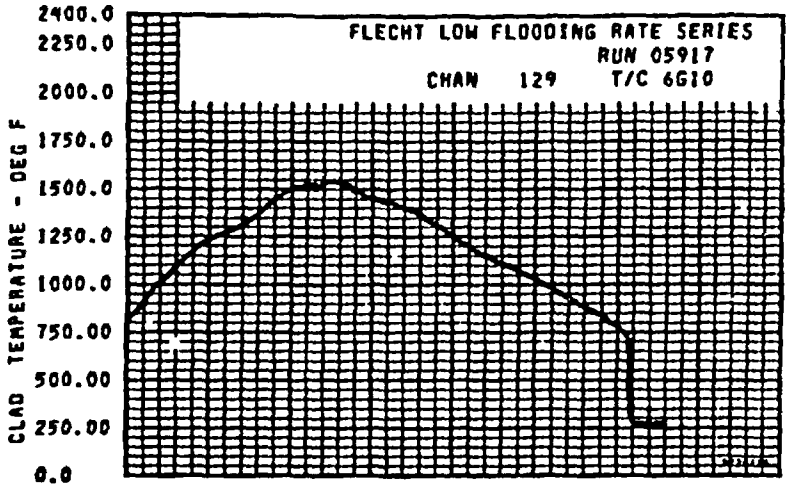
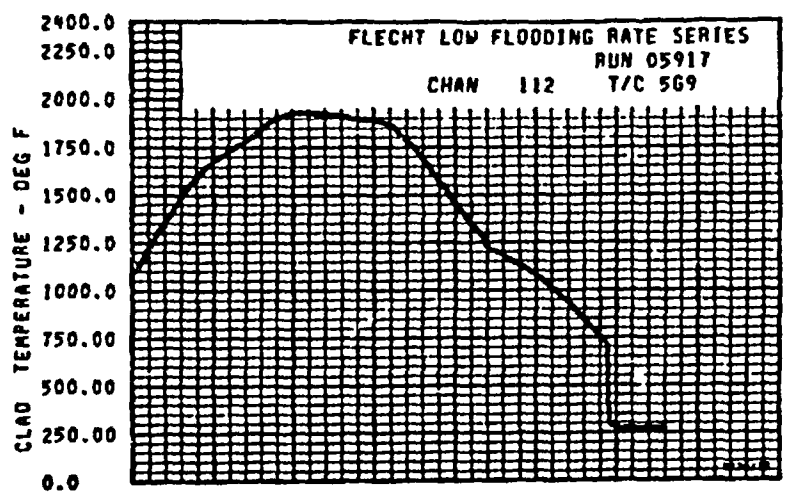
FLECHT-LOW FLIGHT DATA TO THEE 17000000 DATA

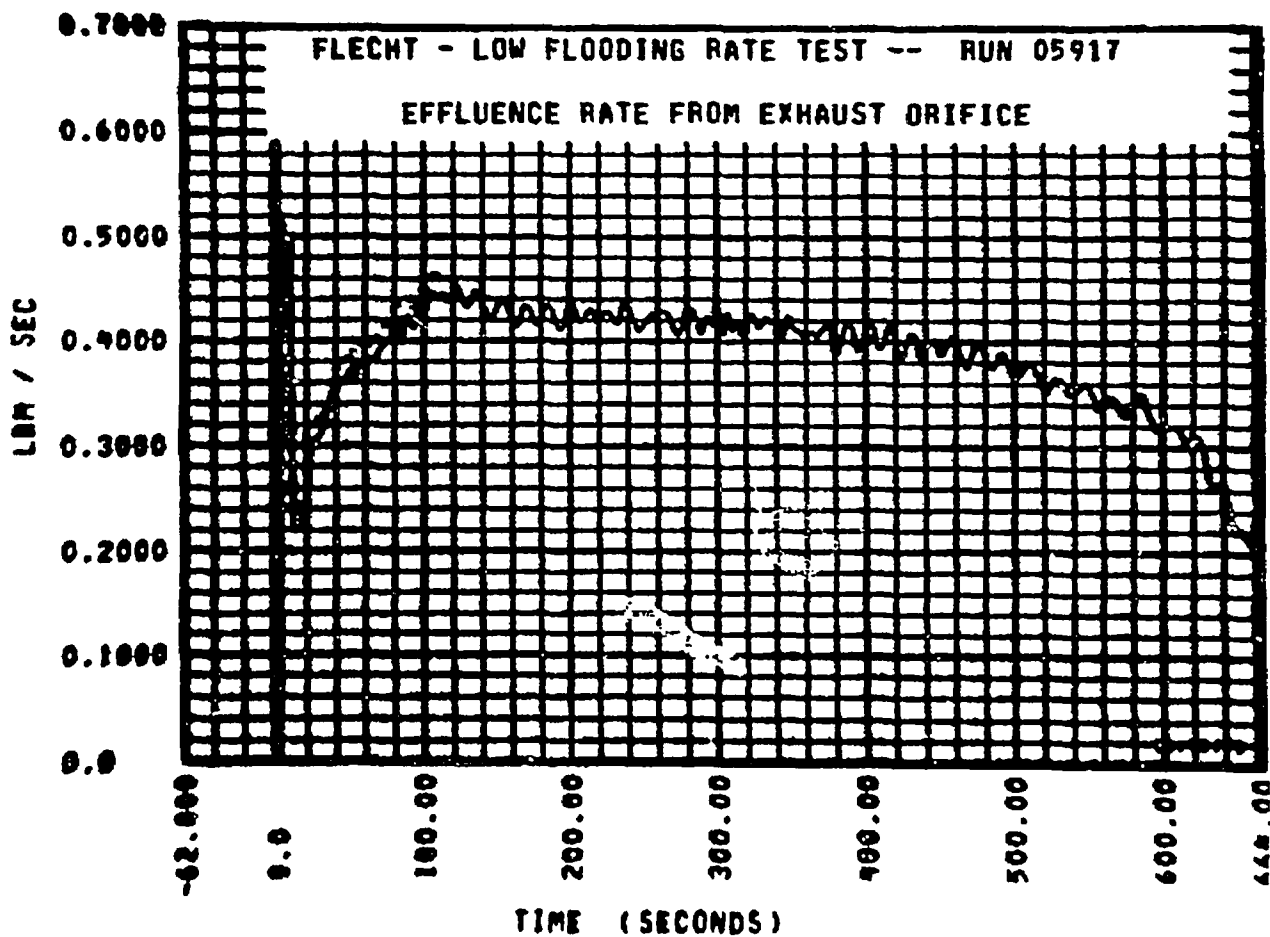
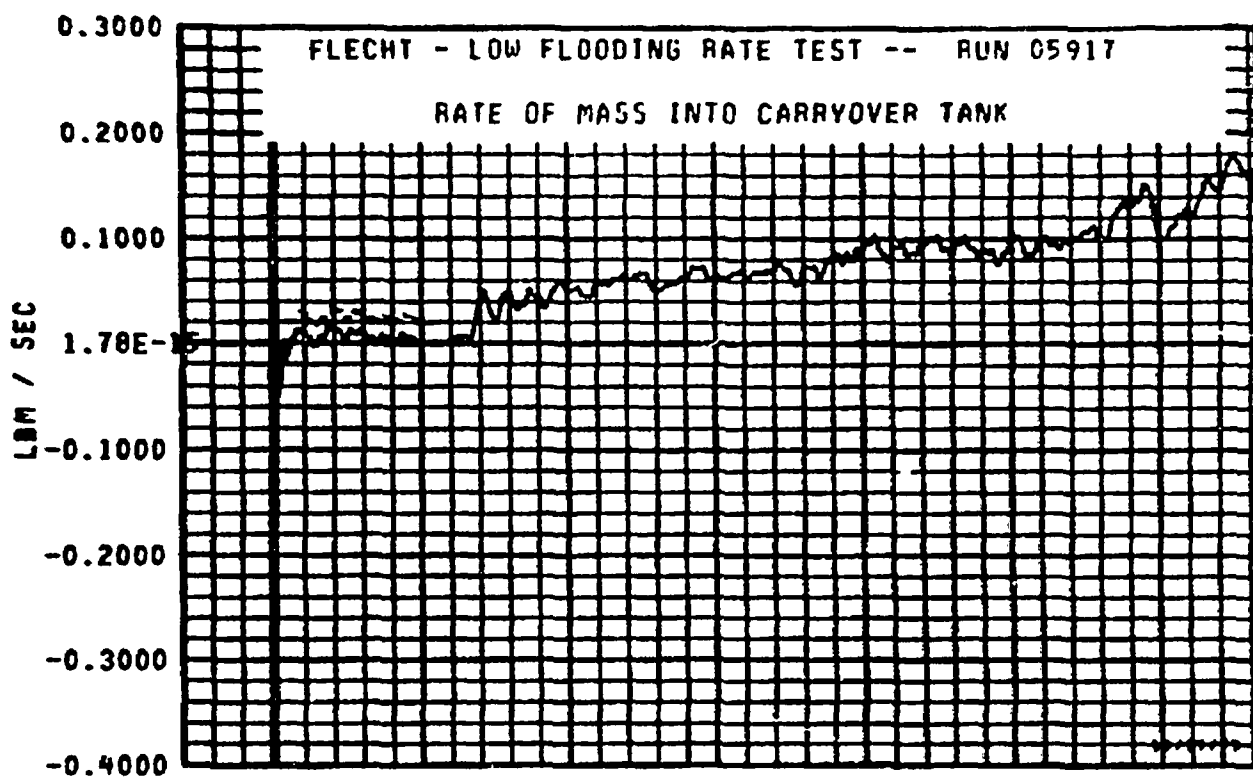
CART/ELV	TEMPERATURE AT POINT (°C)	TIME OF (SEC)	INITIAL TEMPERATURE (°C)	RUN NUMBER 75917		TURNING TIME (SEC)	QUENCH TEMPERATURE (°C)	QUENCH TIME (SEC)
				MAXIMUM TEMPERATURE (°C)	TEMPERATURE (°C)			
449.5	317.	-57.8	60.	816.	9.	7.9	581.	9.4
441	390.	-57.3	674.	687.	12.	9.0	675.	13.7
441.5	376.	-59.4	735.	746.	11.	3.7	657.	30.8
442	390.	-57.4	974.	1021.	44.	18.2	777.	52.6
446	767.	-57.4	1437.	1781.	764.	67.2	873.	184.8
448	771.	-57.1	1600.	2174.	971.	186.7	901.	349.8
876	537.	-57.8	1459.	2054.	506.	104.8	1093.	336.9
876.5	574.	-54.8	1473.	2492.	649.	132.0	1172.	399.7
877	577.	-57.	1407.	1907.	495.	172.8	777.	463.8
878	547.	-57.	1284.	2064.	716.	211.8	454.	534.0
879	447.	-57.	1077.	1497.	874.	234.8	674.	606.0
879.5	744.	-57.4	711.	1684.	950.	275.0	751.	595.6
8711	777.	-57.4	571.	1267.	692.	275.0	744.	541.8
8712	197.	-56.4	304.	444.	774.	275.0	492.	392.0
500	740.	-57.4	777.	777.	0.	0.0	341.	1
500.5	774.	-57.8	590.	686.	7.	1.6	572.	9.2
501	767.	-57.4	640.	660.	11.	7.9	507.	18.3
501.5	767.	-57.4	337.	975.	41.	17.8	767.	47.7
502	684.	-57.4	1215.	1719.	104.	24.4	745.	112.7
504	749.	-57.8	1475.	1671.	273.	63.8	771.	189.7
504	537.	-51.	1448.	2166.	614.	114.0	1249.	715.8
506	477.	-55.	1577.	2177.	474.	149.4	1464.	299.6
506.5	577.	-57.4	1507.	2157.	647.	173.0	1171.	374.6
507	545.	-57.4	1417.	2117.	697.	182.0	1473.	429.8
508	577.	-57.4	1290.	2172.	822.	212.0	1037.	518.4
509	757.	-57.4	1087.	1937.	847.	210.0	797.	589.3
5010	774.	-57.	574.	1947.	474.	193.0	542.	630.0
5012	774.	-57.4	547.	764.	427.	174.8	559.	641.8
106	767.	-57.1	430.	1492.	124.	42.8	932.	147.6
106	717.	-57.8	1527.	1817.	789.	43.4	474.	319.8
1010	498.	-57.1	851.	1134.	245.	108.2	567.	622.4
742	764.	-57.4	977.	1007.	74.	17.6	764.	48.0
746	757.	-57.8	1577.	2106.	624.	100.2	1009.	399.9
744	704.	-57.4	1757.	2042.	734.	162.2	958.	515.7
7410	737.	-57.4	927.	1521.	597.	143.0	1090.	488.6
904	767.	-57.4	1360.	1586.	217.	67.4	480.	172.7
906	588.	-57.4	1497.	2141.	644.	114.0	1092.	335.0
908	774.	-57.4	1197.	2780.	1094.	246.0	1224.	534.9
9010	277.	-57.	666.	1740.	1074.	259.4	812.	682.0

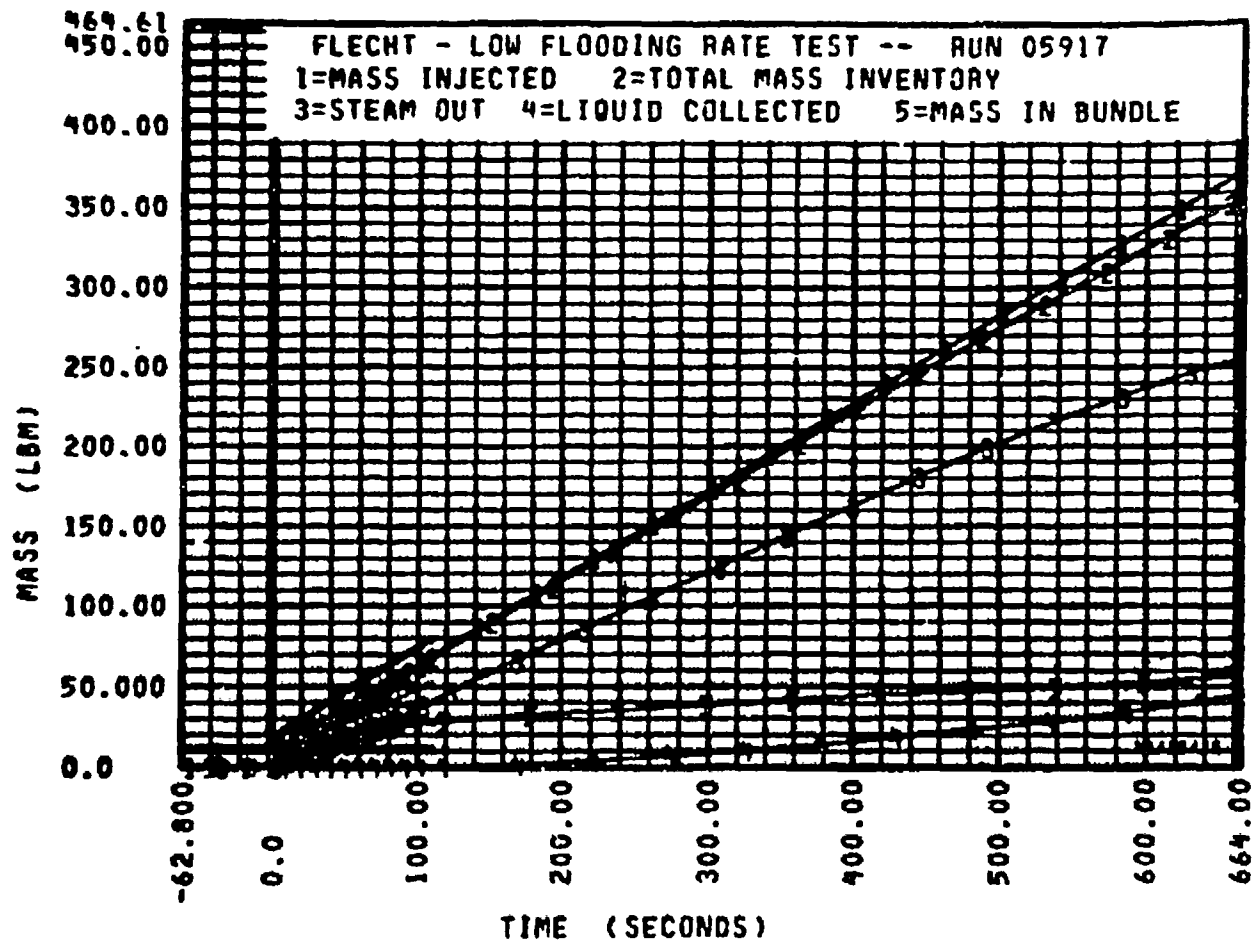


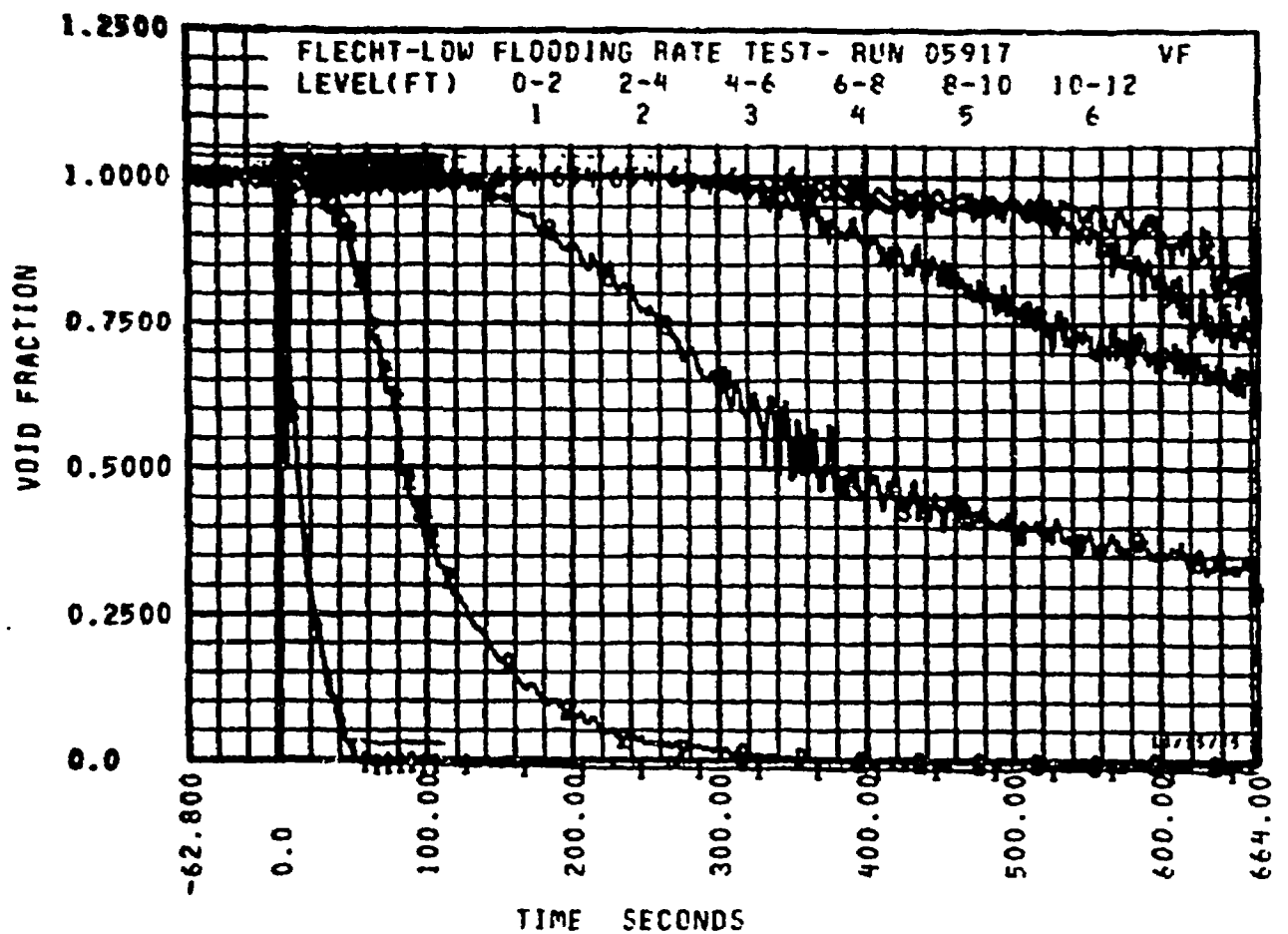
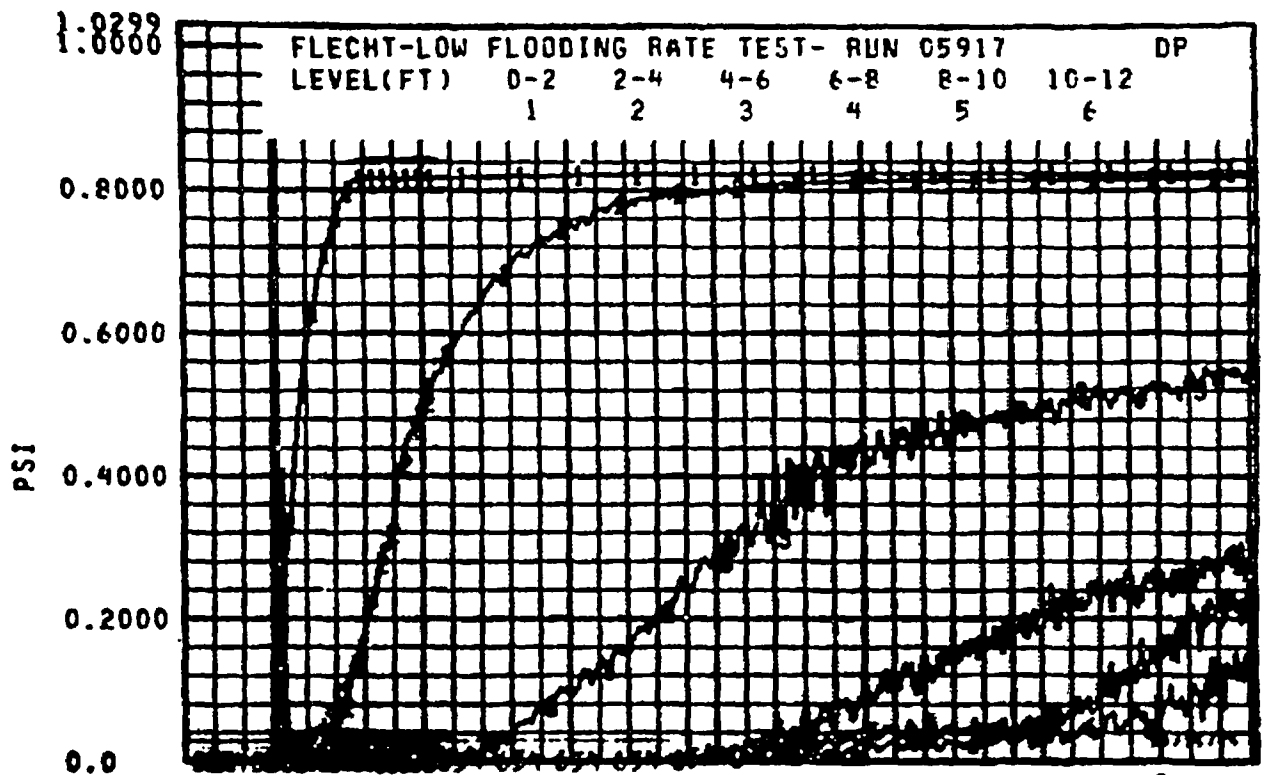


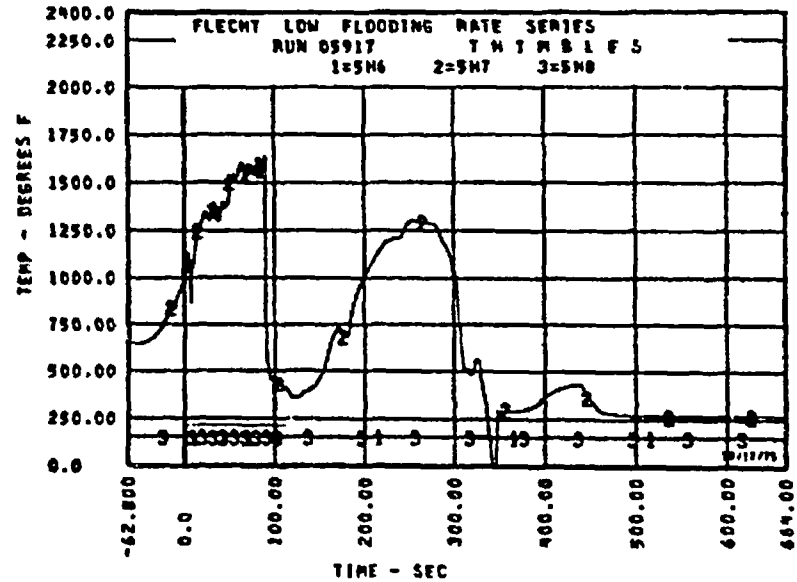
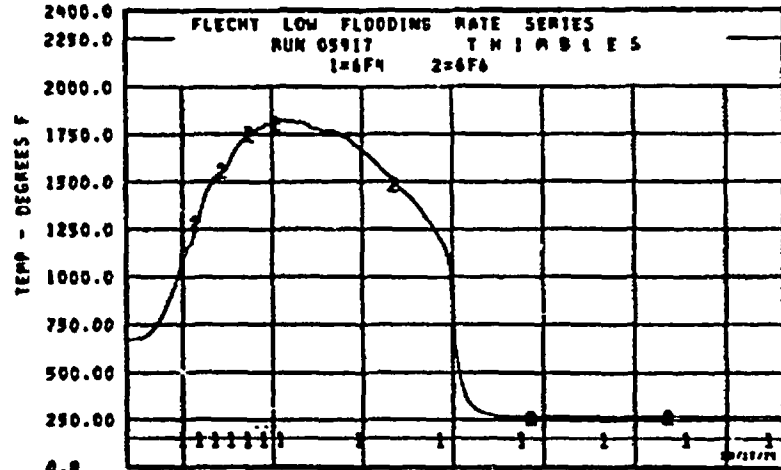
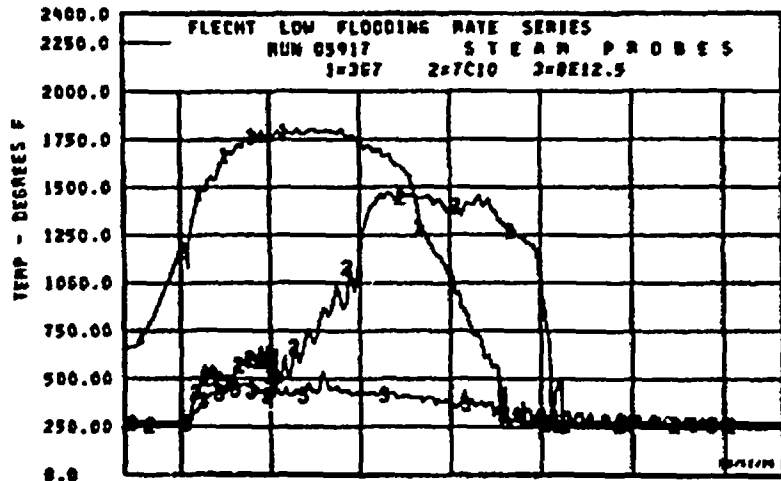


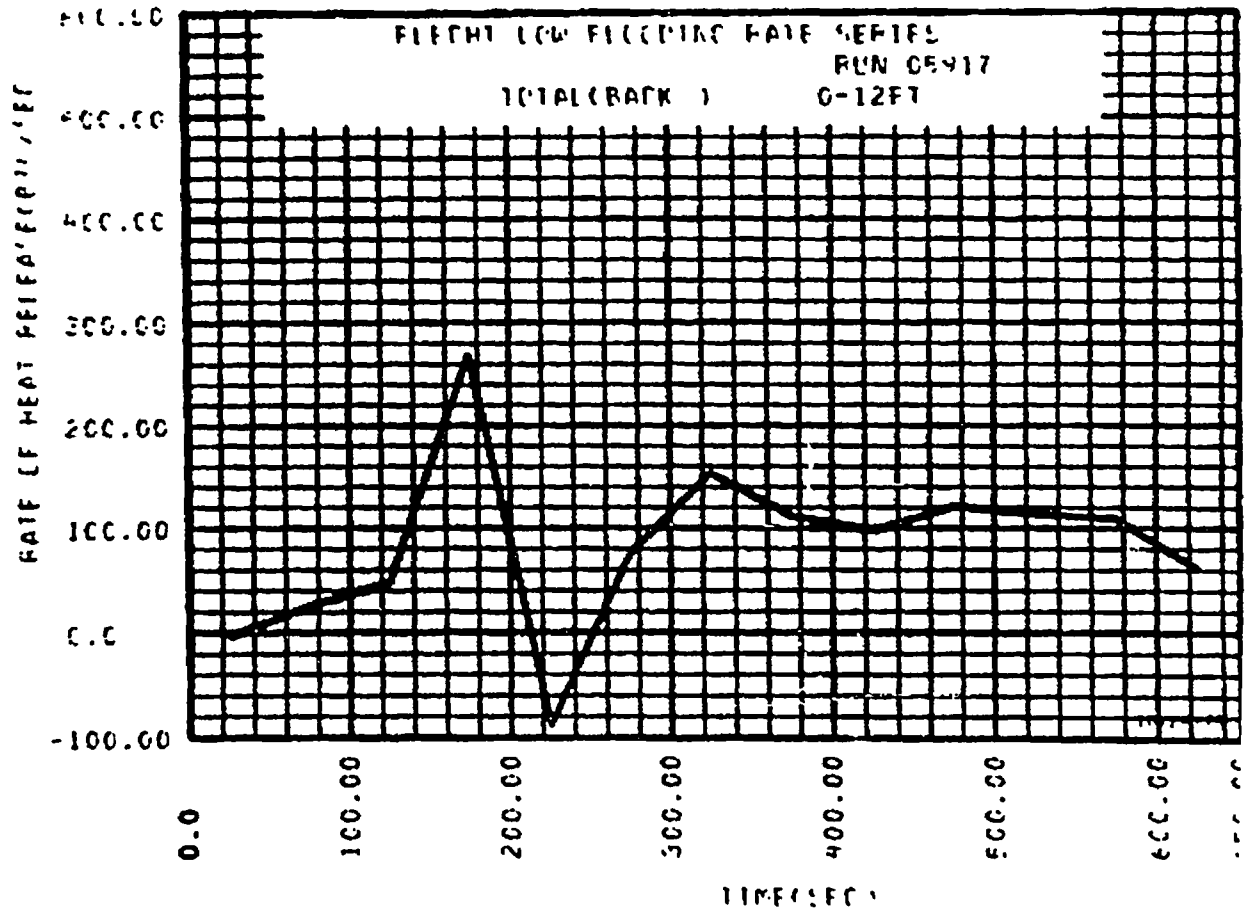
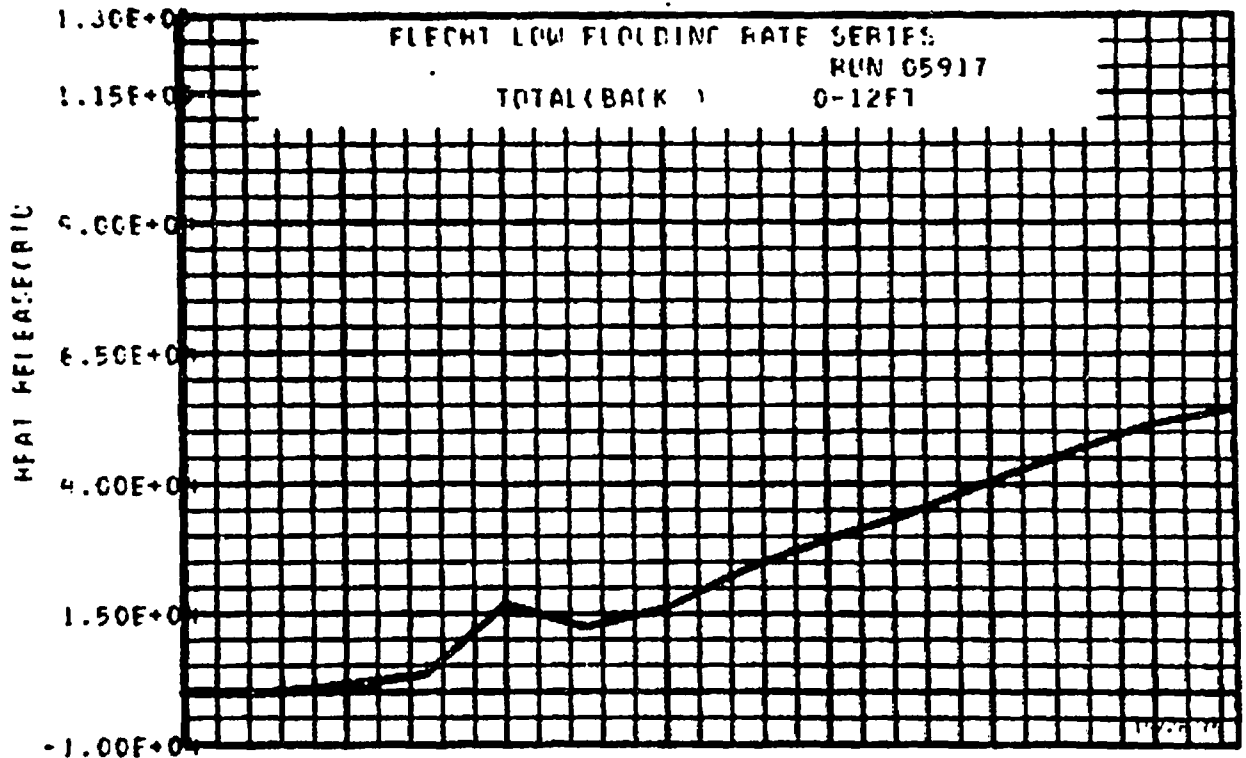












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FLECHT - LOW FLOODING RATE TEST

SUMMARY SHEET

COSINE AXIAL POWER PROFILE

RUN NO. 06022

DATE: 6/9/75

A. RUN CONDITIONS

Upper Plenum Pressure, psia	<u>25</u>	
Initial Clad Temperature (6 Ft)°F At Flood	<u>1,090</u>	Rod T/C <u>4H6</u>
Rod Peak Power, kw/ft	<u>0.87</u>	
Flooding Rate, in/sec	<u>FLECHT SET PHASE B</u>	
	<u>RUN 2617B</u>	
	<u>----</u>	
Coolant Temperature, °F	<u>144</u>	
Bundle Radial Power Profile	<u>FLECHT</u>	
Disconnected Rods	<u>7F</u>	

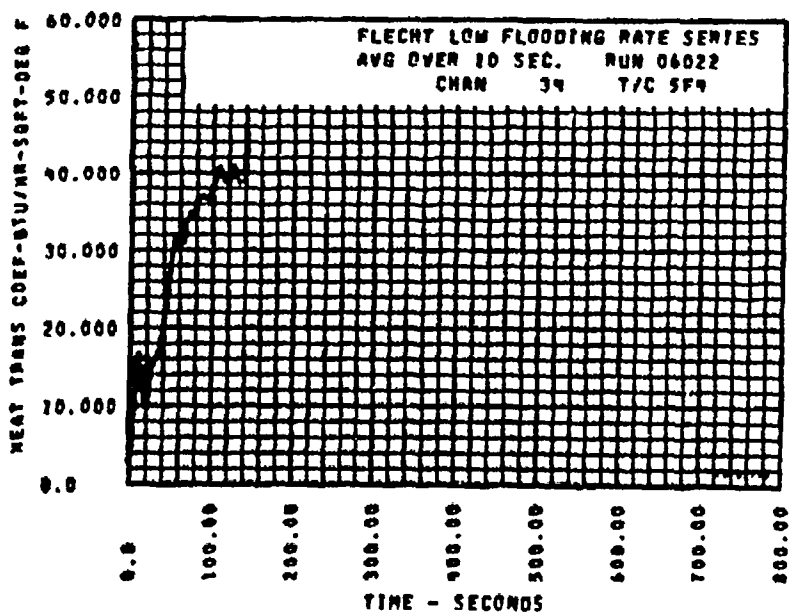
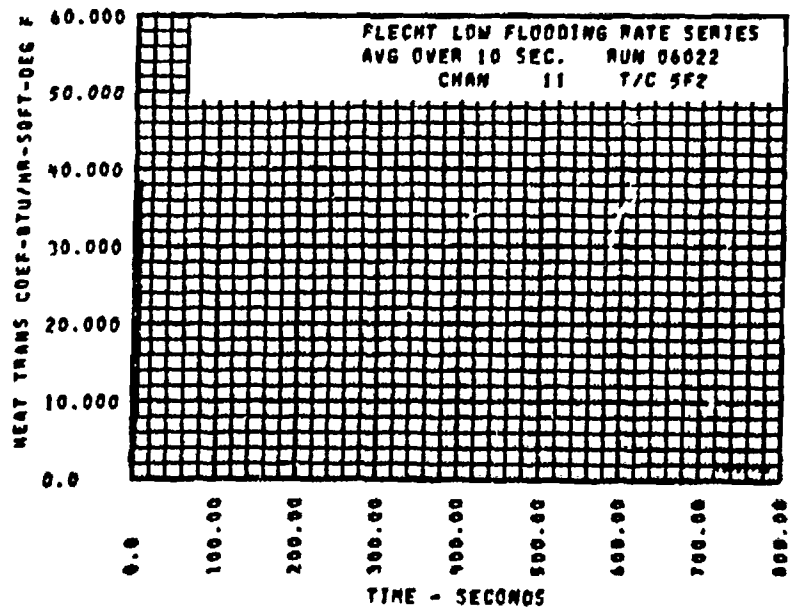
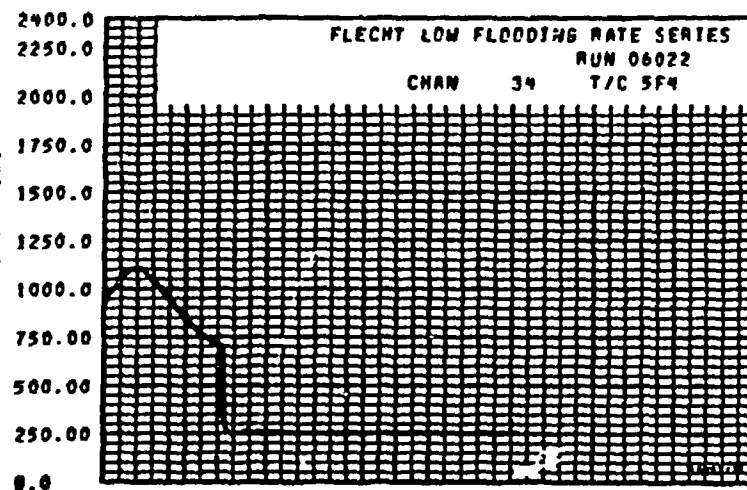
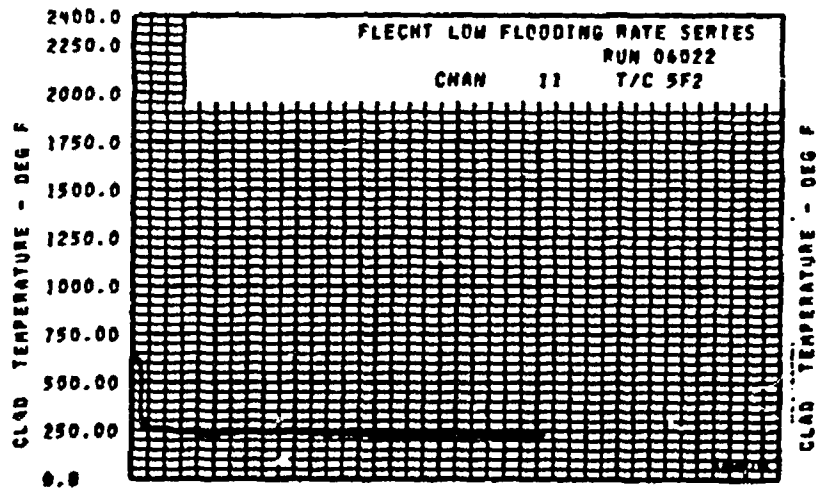
B. INITIAL HOUSING TEMPERATURE

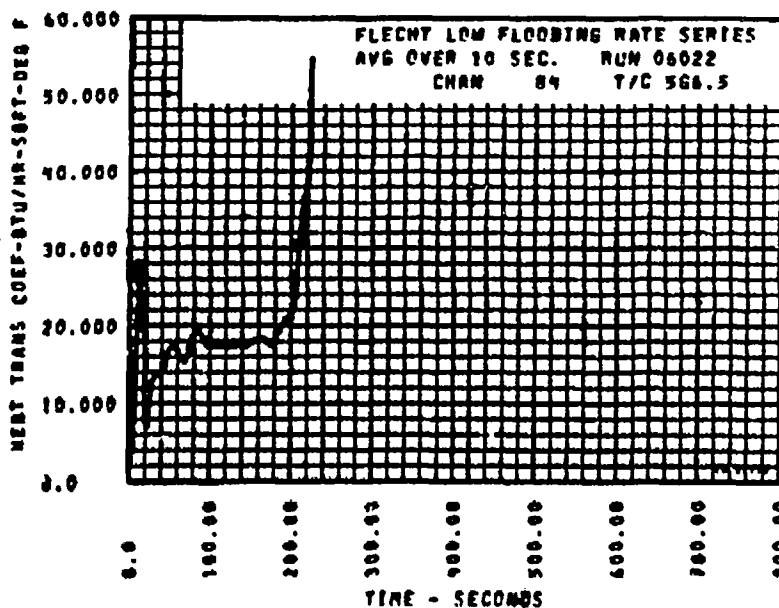
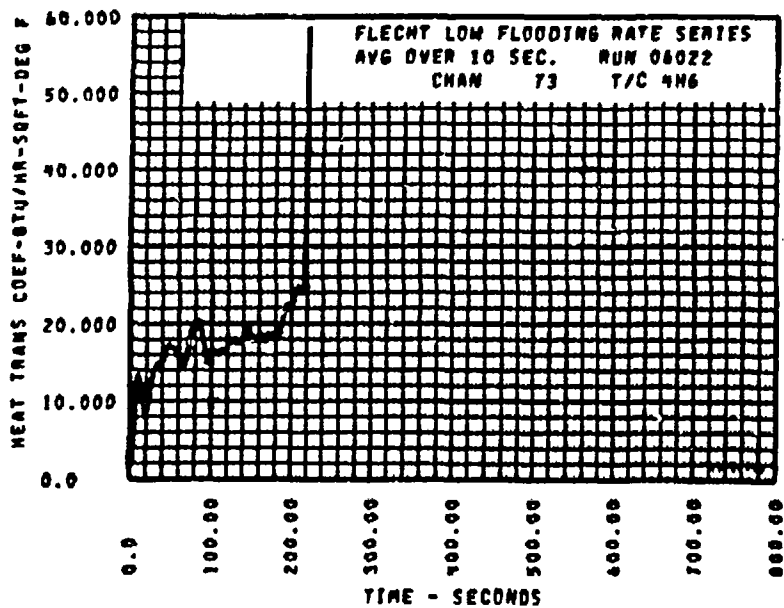
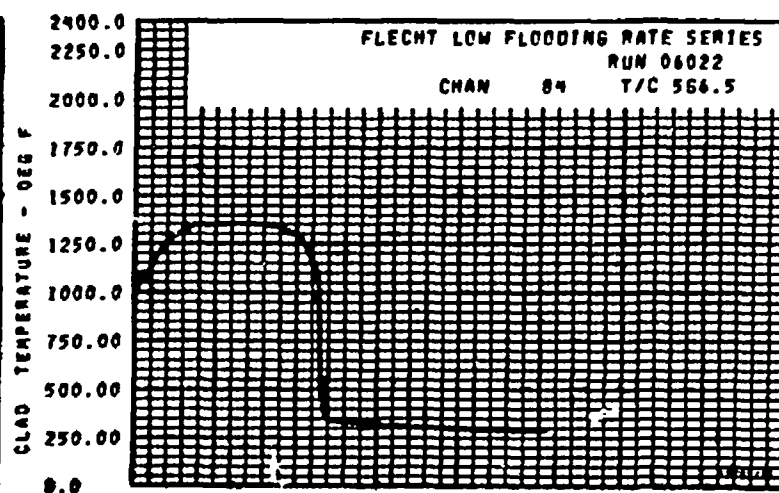
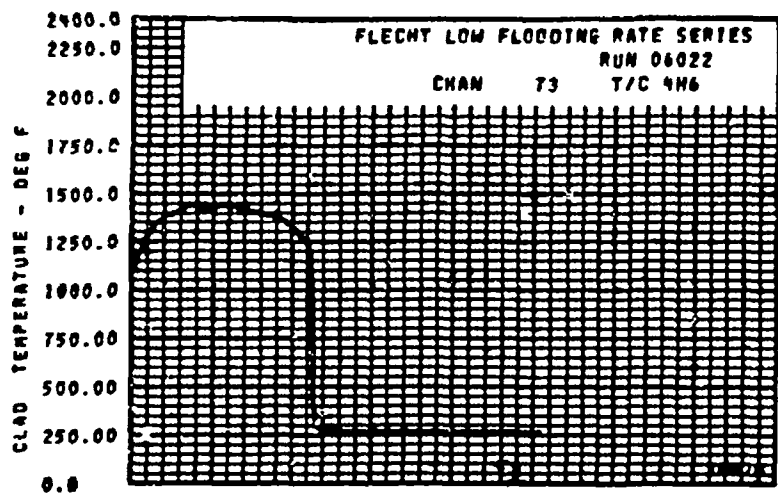
Back Side Elevation, Ft.	Temperature, °F
0	<u>250</u>
2	<u>356</u>
4	<u>527</u>
5.5	<u>612</u>
6	<u>614</u>
6.5	<u>501</u>
7	<u>485</u>
7.5	<u>478</u>
8	<u>506</u>
10	<u>376</u>
12	<u>252</u>
Average	<u>451</u>
Lower Plenum	<u>137</u>

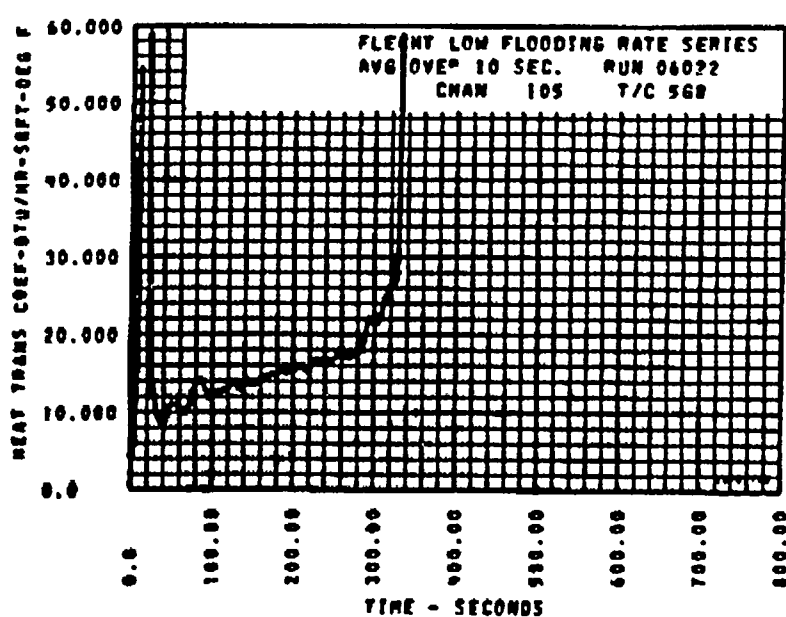
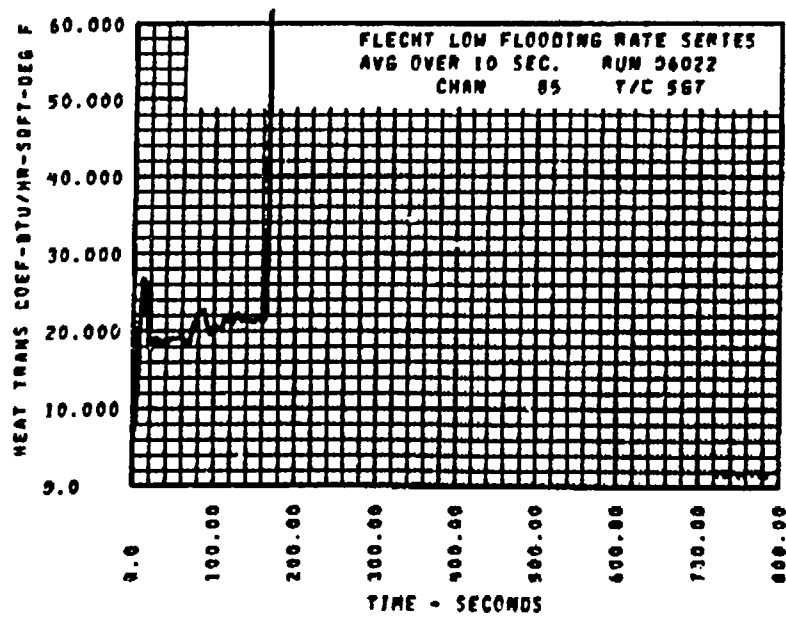
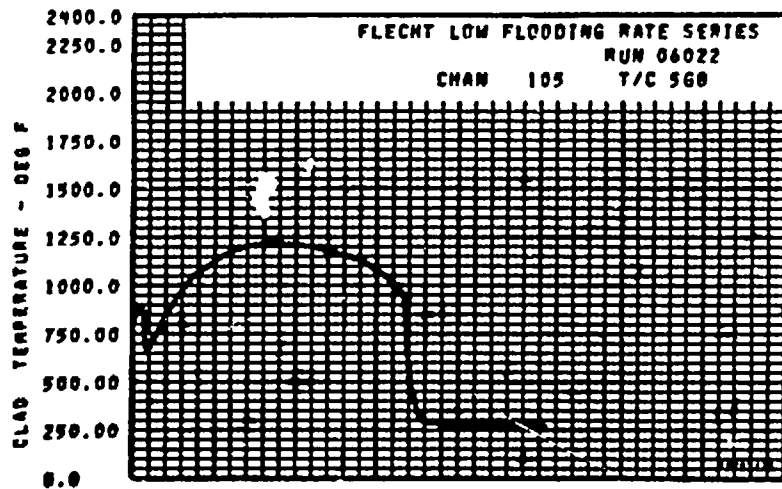
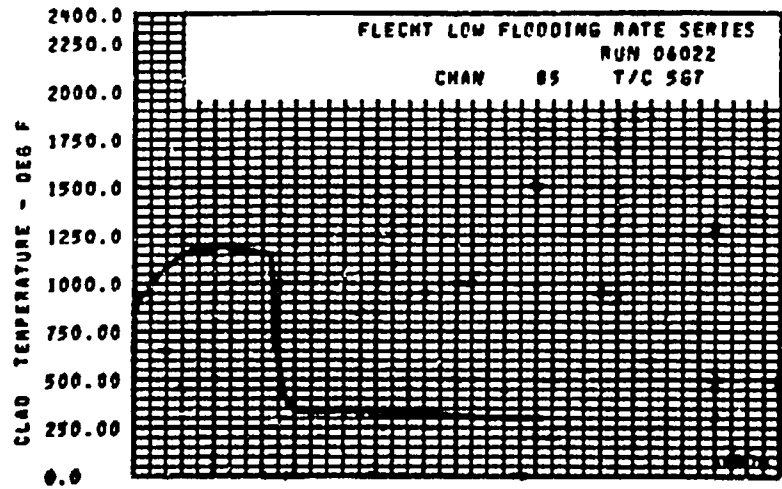
FLPCMT-LOW FLOODING RATE 230 THERMOCOUPLE DATA

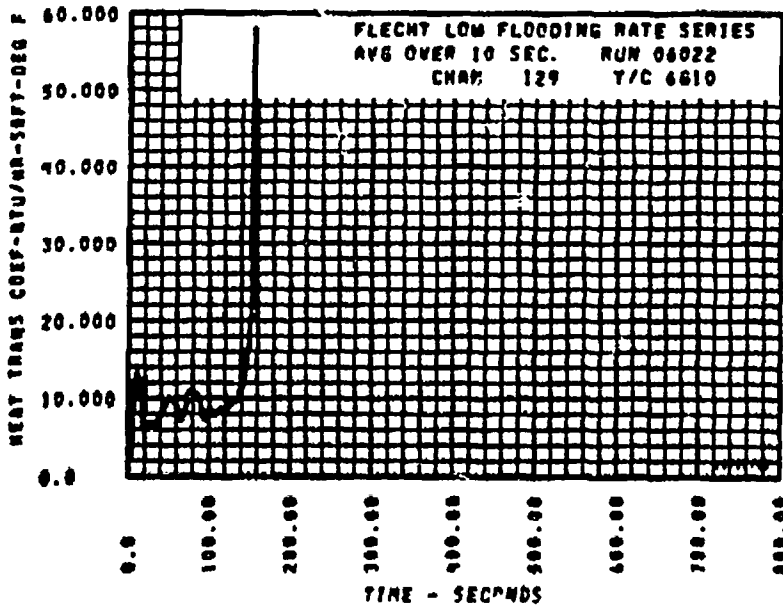
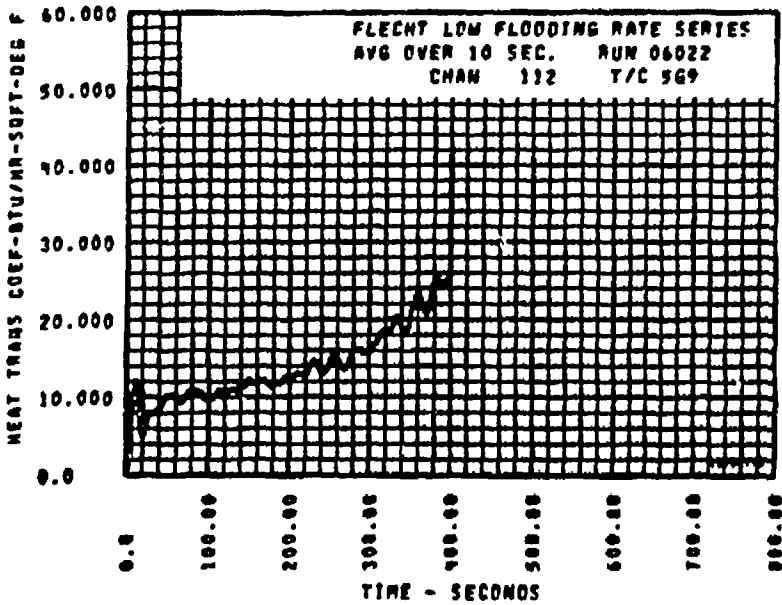
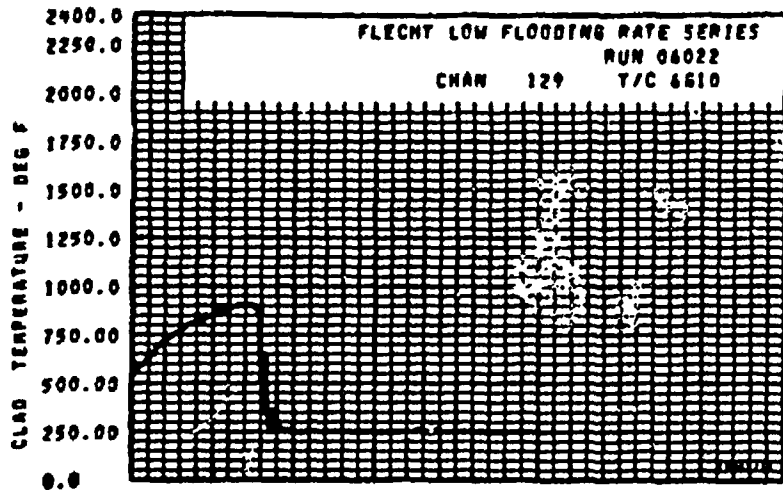
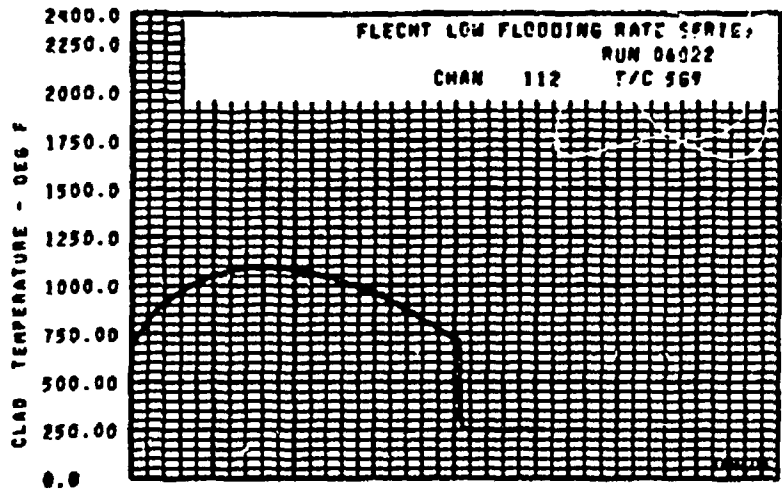
POD/FLW	TEMPERATURE BY THERM ON (NEG.F)	TIME OF ON (SEC.)	INITIAL TEMPERATURE IF FLWD (NEG.F)	MINIMUM MAXIMUM TEMPERATURE (NEG.F)	04922 TEMPERATURE RISE (NEG.F)	TURNDOWN TIME (SEC.)	QUENCH TEMPERATURE (NEG.F)	QUENCH TIME (SEC.)
440.5	243.	-74.6	473.	474.	12.	2.6	426.	3.7
441	265.	-74.6	469.	480.	15.	4.9	458.	6.2
441.5	303.	-34.4	470.	482.	12.	8.0	467.	7.5
447	373.	-74.6	627.	692.	29.	5.4	687.	16.7
444	529.	-34.4	957.	1191.	193.	48.2	733.	138.3
446	932.	-74.6	1090.	1467.	353.	74.6	1167.	224.5
876	313.	-74.6	15.	1426.	563.	142.8	857.	288.6
876.5	942.	-74.6	427.	1491.	456.	135.8	979.	311.3
877	257.	-34.4	780.	1154.	364.	124.8	787.	391.1
878	249.	-34.4	591.	1123.	433.	198.8	782.	383.3
879	248.	-74.6	627.	1072.	449.	191.8	666.	447.8
8810	246.	-34.4	372.	978.	476.	283.8	788.	383.6
8811	245.	-34.4	427.	460.	34.	18.8	459.	11.2
8812	151.	-32.4	201.	226.	29.	51.6	225.	92.8
880	243.	-74.6	34.	351.	3.	1.2	379.	2.0
880.5	241.	-74.6	414.	426.	11.	2.6	417.	3.9
881	254.	-34.4	434.	444.	14.	3.8	444.	6.8
881.5	346.	-74.6	595.	624.	20.	5.4	595.	18.3
882	458.	-34.4	780.	840.	60.	18.6	675.	68.7
884	444.	-74.6	922.	1112.	198.	48.2	695.	149.9
886	357.	-34.4	925.	1228.	302.	33.2	1177.	97.7
886	485.	-34.4	970.	1241.	267.	32.2	975.	193.4
886.5	440.	-74.6	490.	1354.	364.	128.9	1821.	228.2
887	744.	-74.6	847.	1192.	345.	189.8	1065.	172.4
888	786.	-34.4	884.	1222.	418.	171.8	813.	336.2
889	353.	-74.6	685.	1889.	404.	148.8	783.	485.6
8811	247.	-34.4	427.	484.	34.	9.6	495.	13.6
8812	247.	-34.4	484.	472.	66.	72.4	482.	15.6
104	570.	-34.4	939.	1025.	94.	28.8	767.	181.4
106	981.	-34.4	1072.	1361.	289.	69.9	864.	279.9
1010	714.	-34.4	551.	745.	194.	192.8	556.	311.8
347	338.	-34.4	628.	649.	29.	5.4	586.	11.3
346	552.	-74.6	1061.	1416.	355.	69.2	979.	251.1
348	482.	-34.4	970.	1188.	236.	47.8	1084.	97.3
3418	396.	-34.4	687.	1064.	457.	282.0	482.	218.4

6 8 8 1 1 T H E R M O C O U P L E 7 8 1 8 4

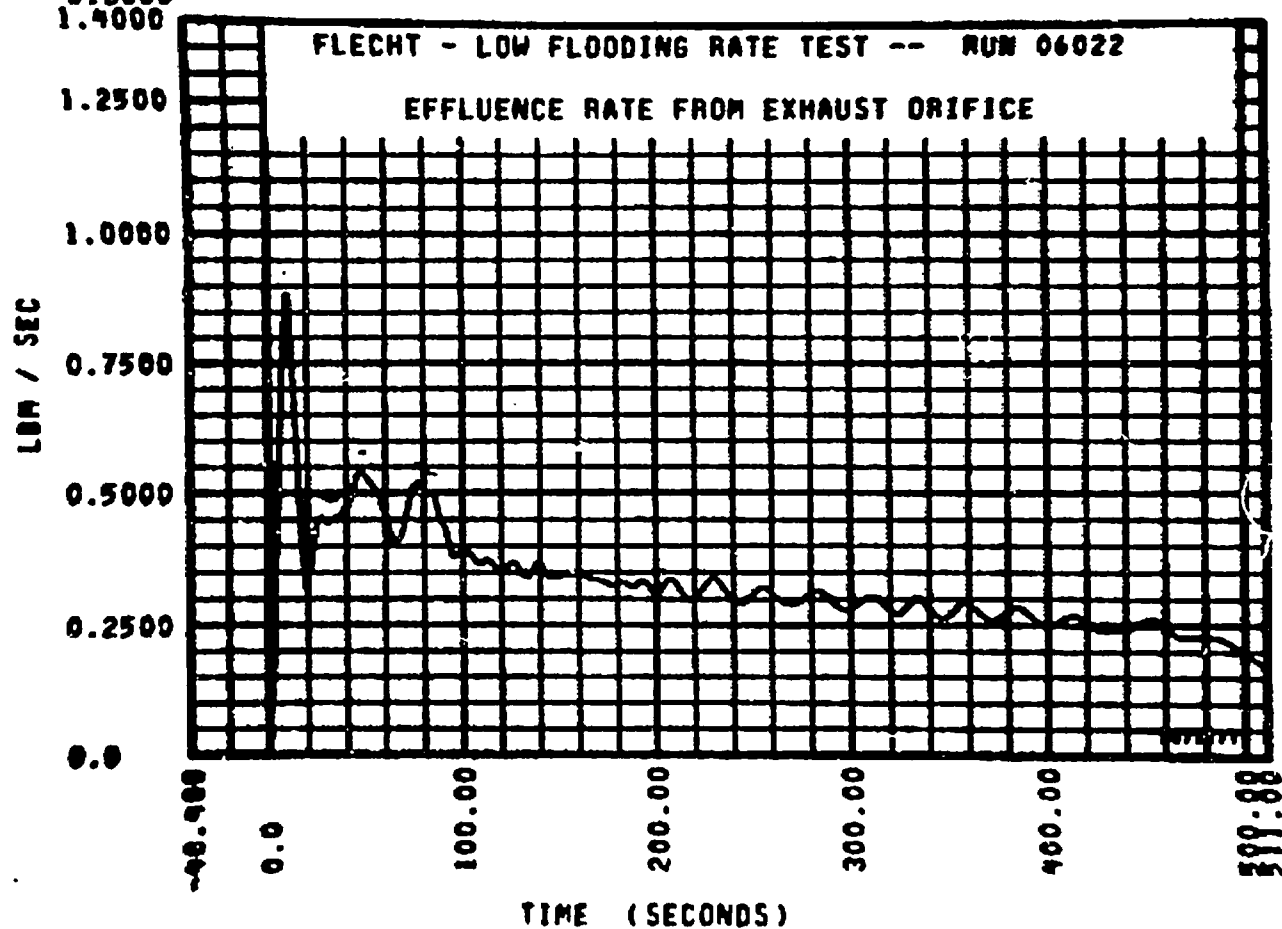
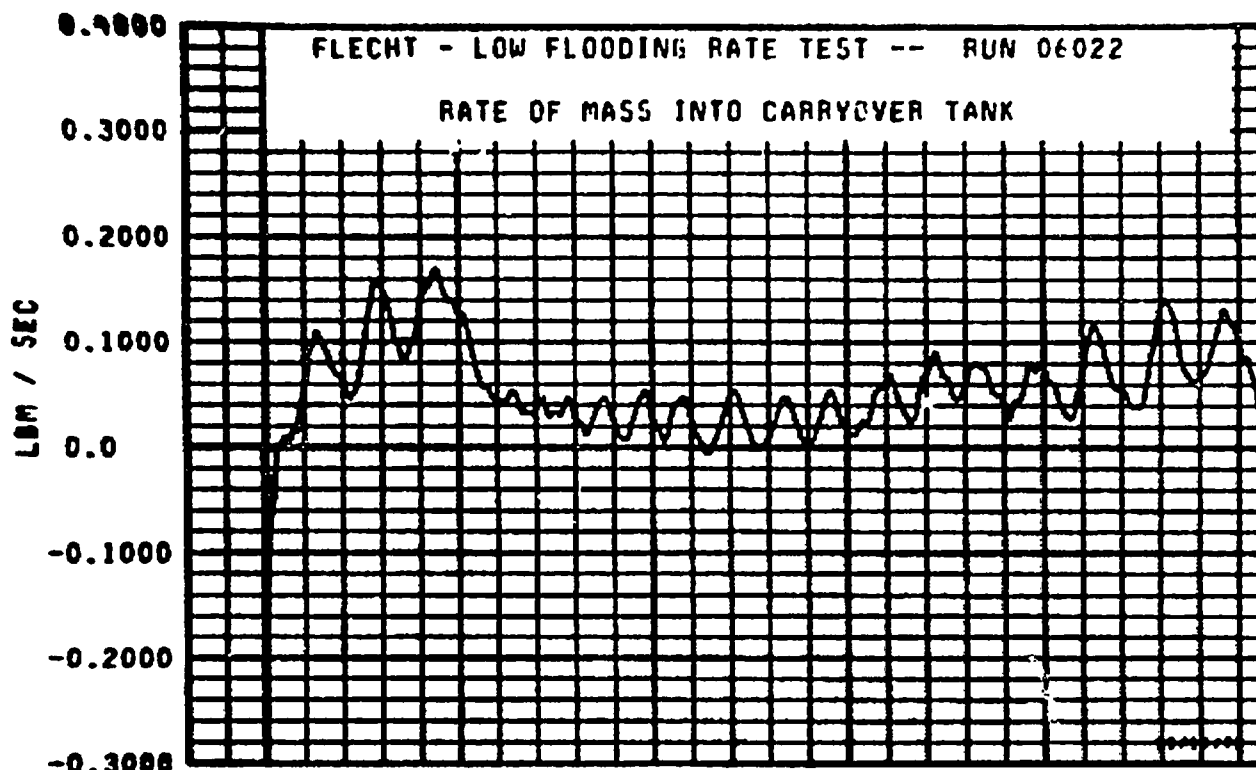


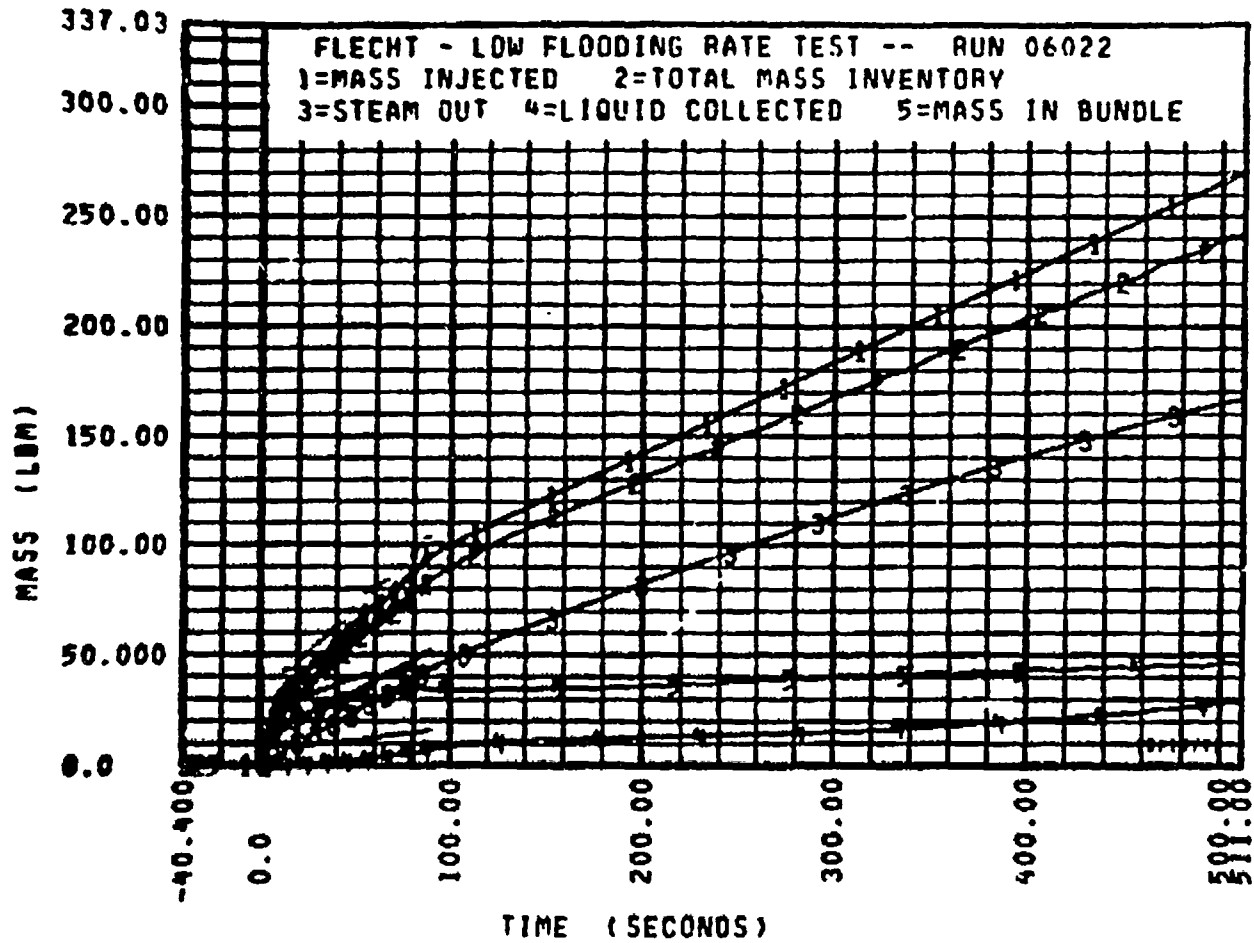


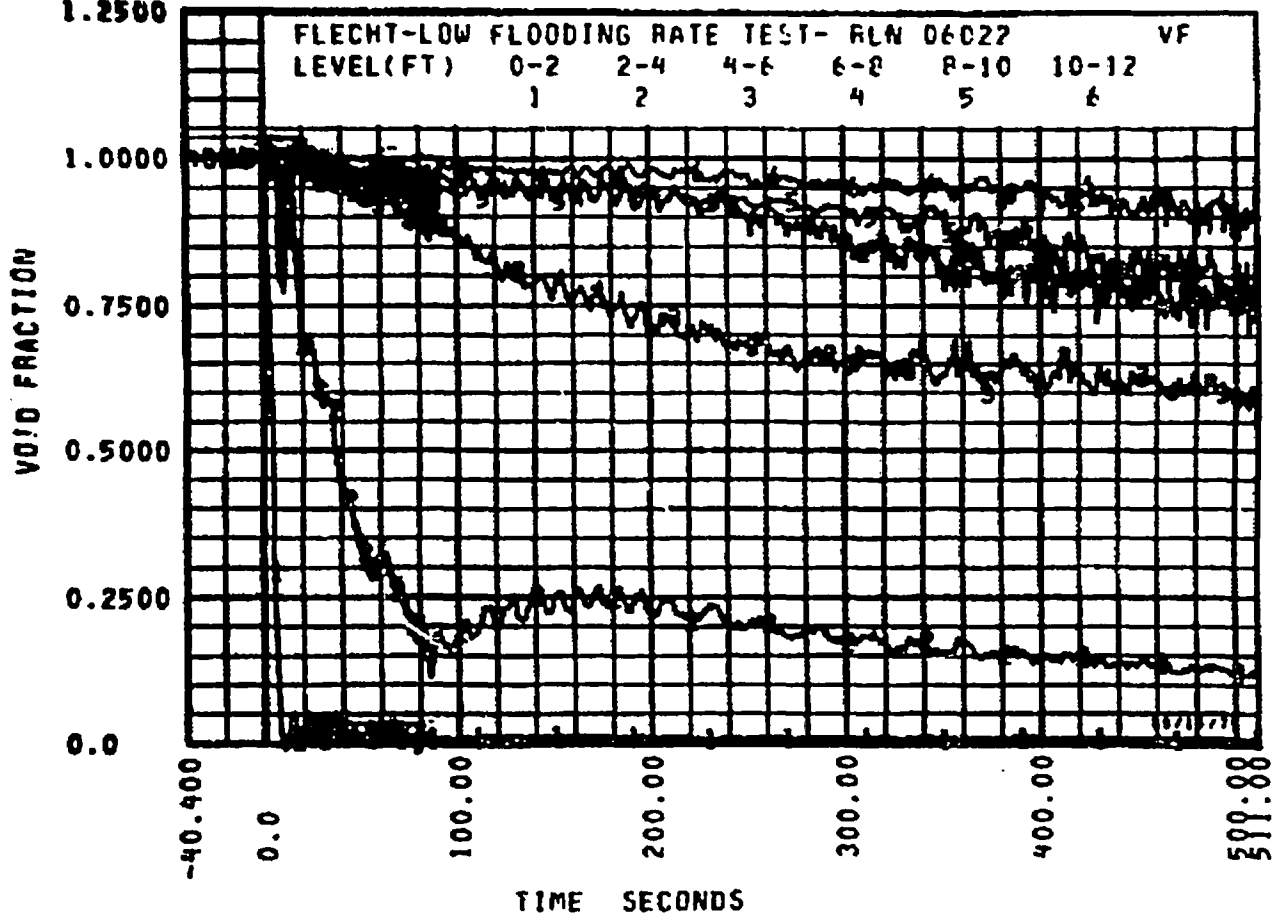
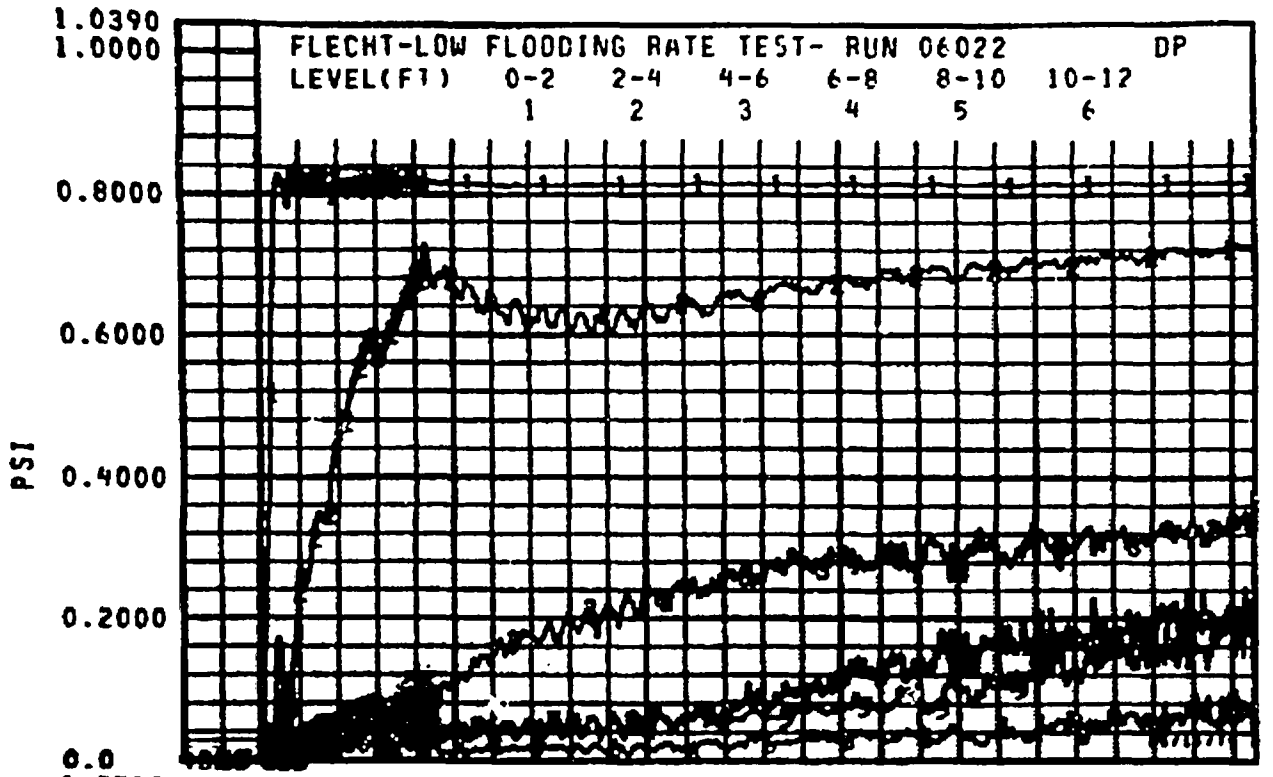


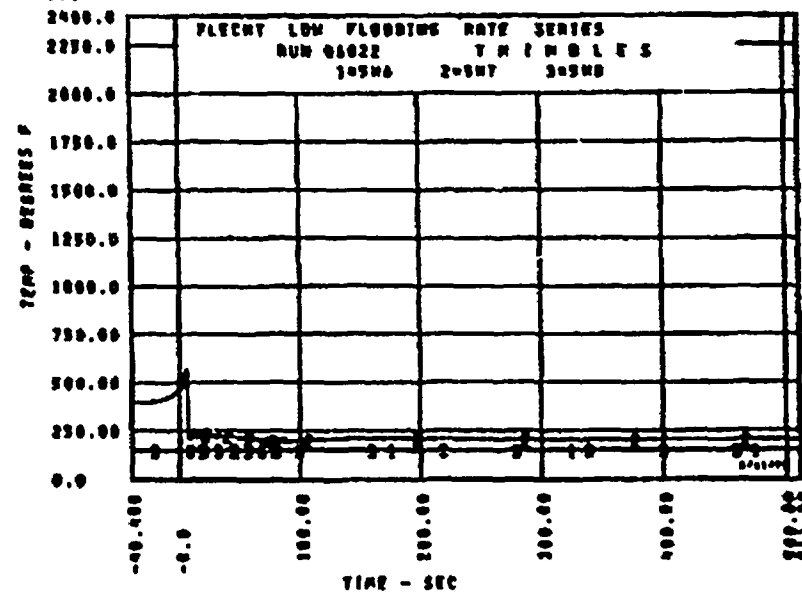
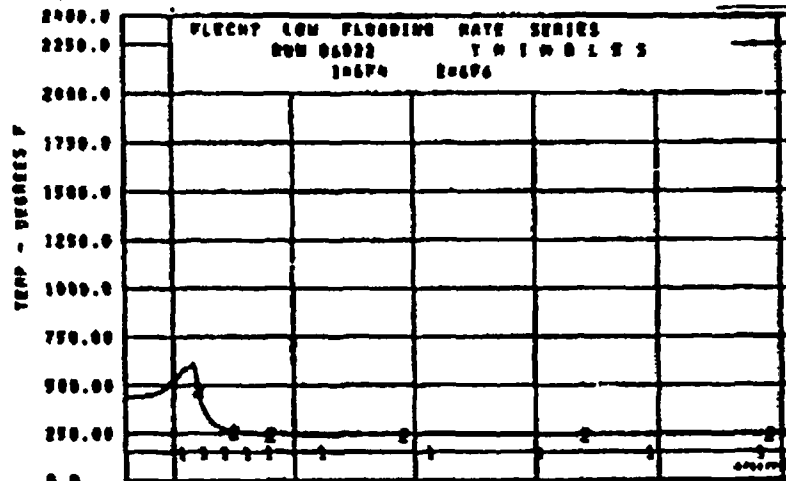
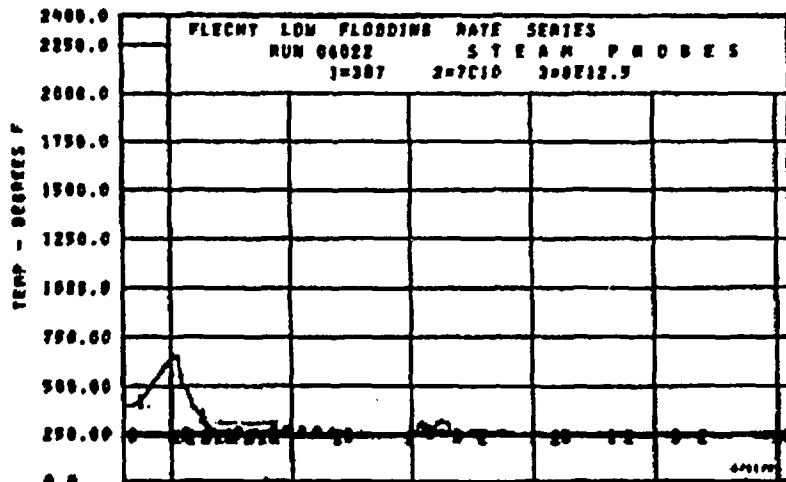


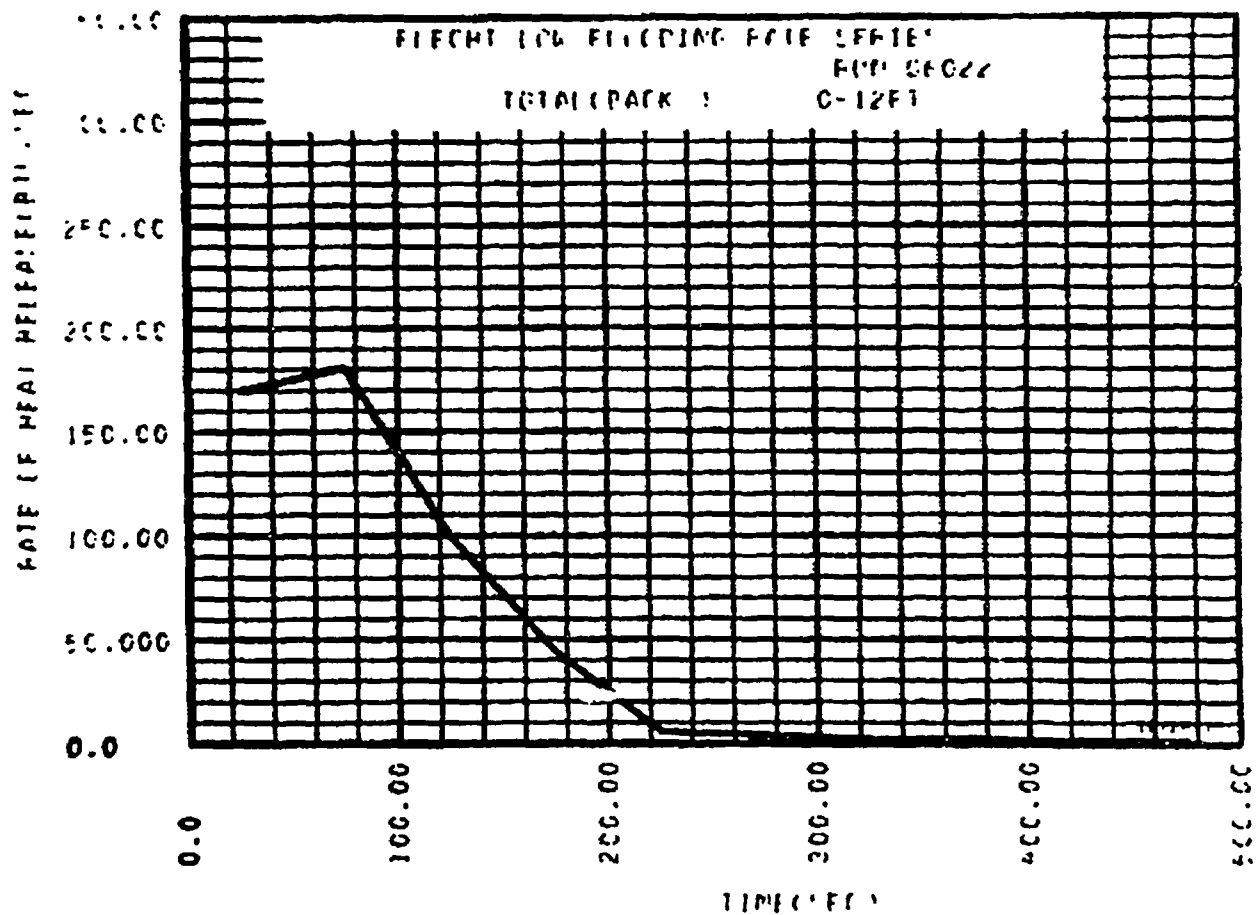
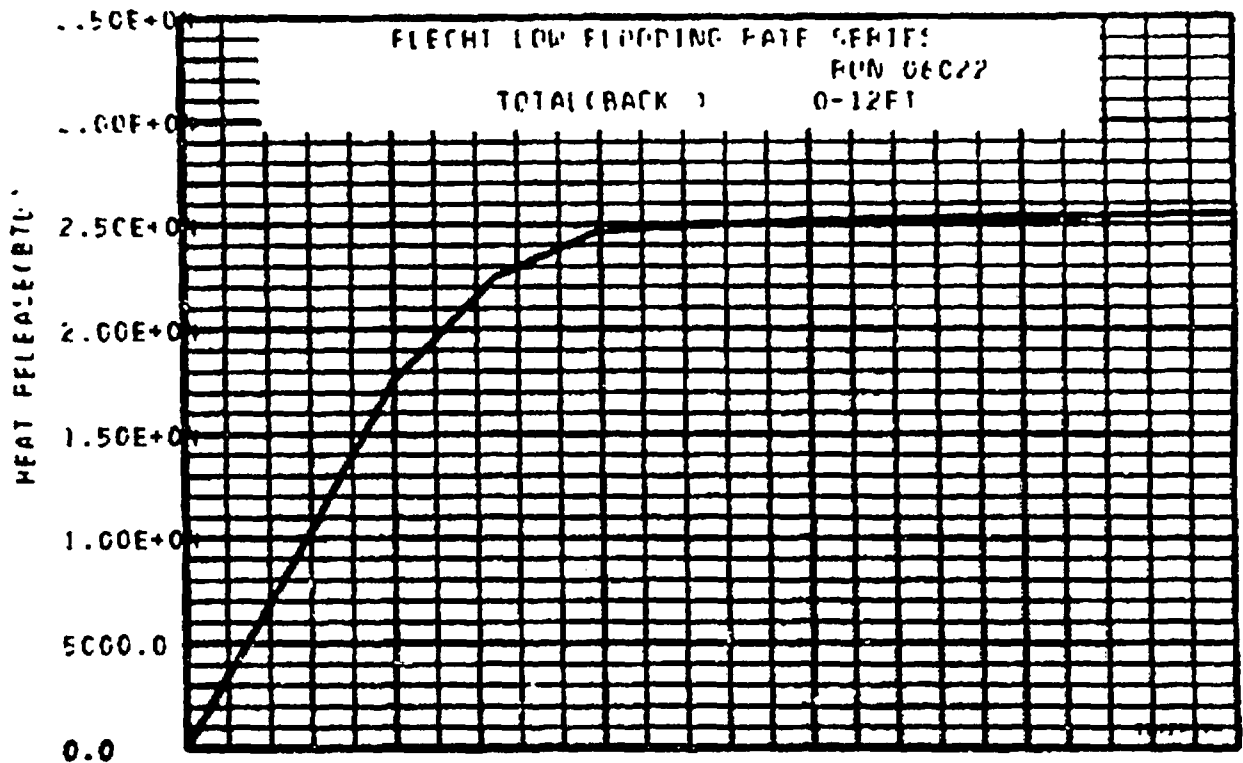
FLECHT LOW FLOODING RATE SERIES
 RUN 06022
 CHAN 112 T/C 569
 CHAN 129 T/C 6610











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FLECHT - LOW FLOODING RATE TEST

SUMMARY SHEET

COSINE AXIAL POWER PROFILE

RUN NO. 06161

DATE: 6/10/75

A. RUN CONDITIONS

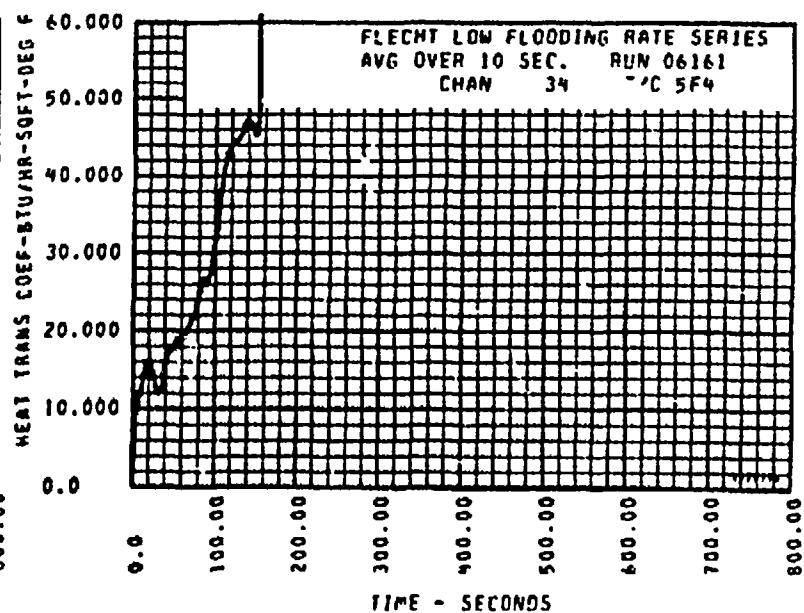
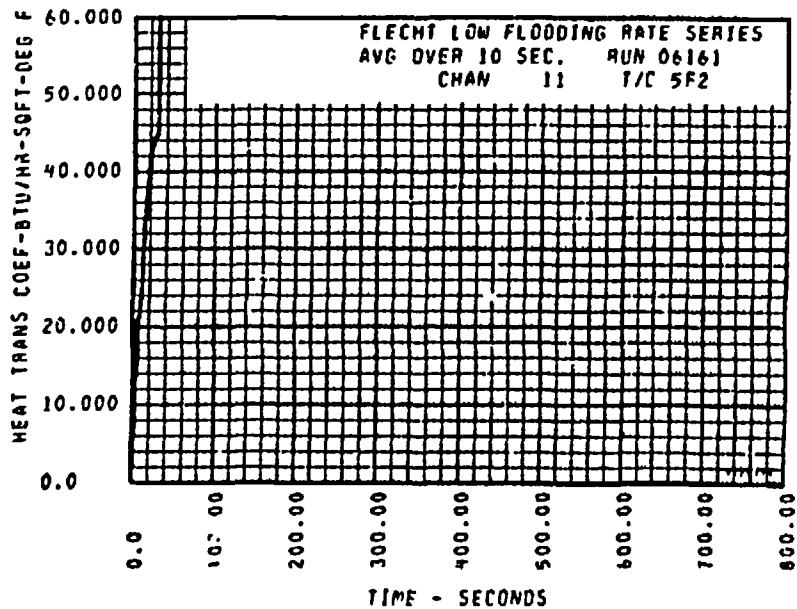
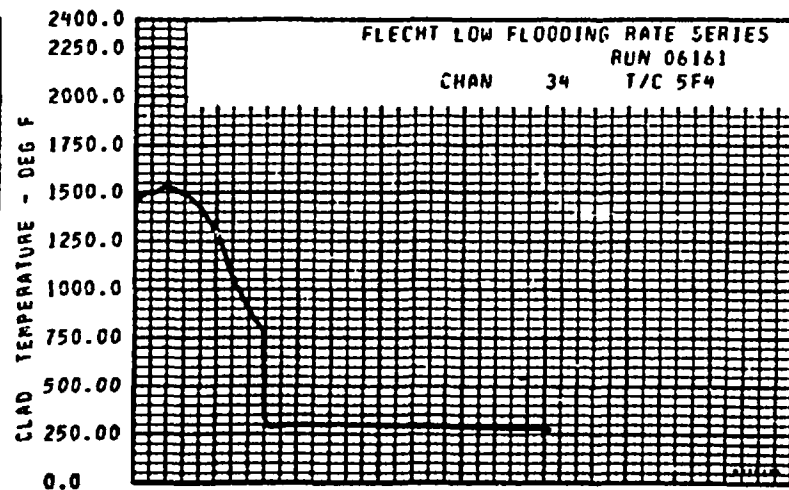
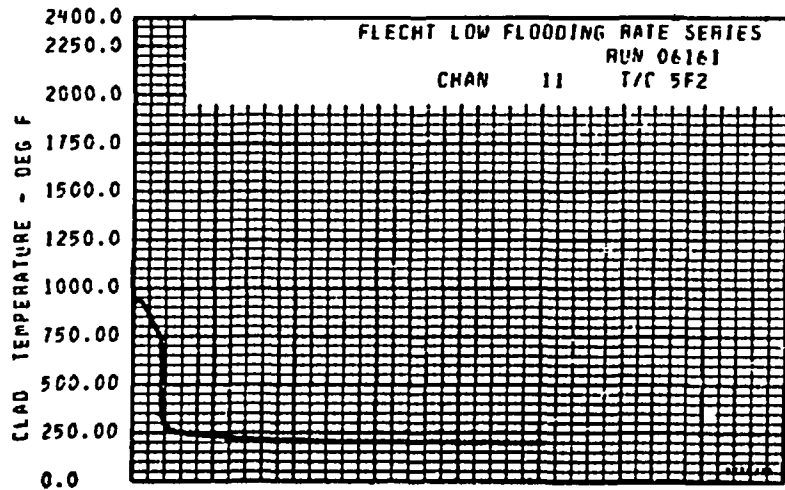
Upper Plenum Pressure, psia	<u>39</u>	
Initial Clad Temperature (6 Ft)°F At Flood	<u>1,600</u>	Rod T/C <u>4H6</u>
Rod Peak Power, kw/ft	<u>0.95</u>	
Flooding Rate, in/sec	<u>6 (1 sec)</u>	
	<u>2 (20 sec)</u>	
	<u>1.0</u>	
Coolant Temperature, °F	<u>126</u>	
Bundle Radial Power Profile	<u>FLECHT</u>	
Disconnected Rods	<u>7F</u>	

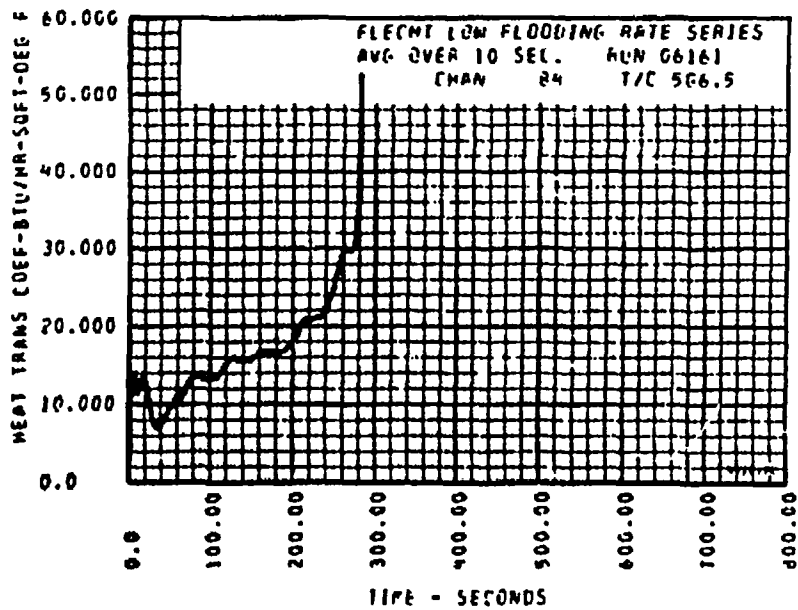
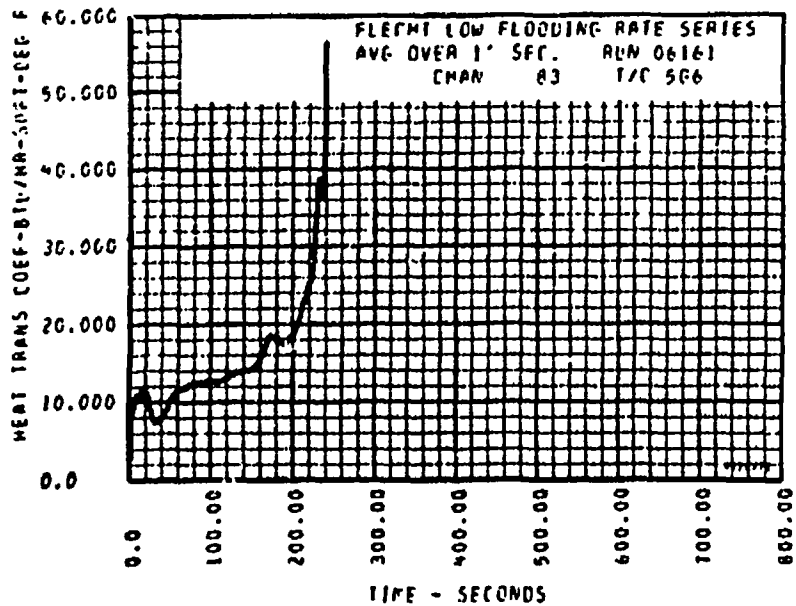
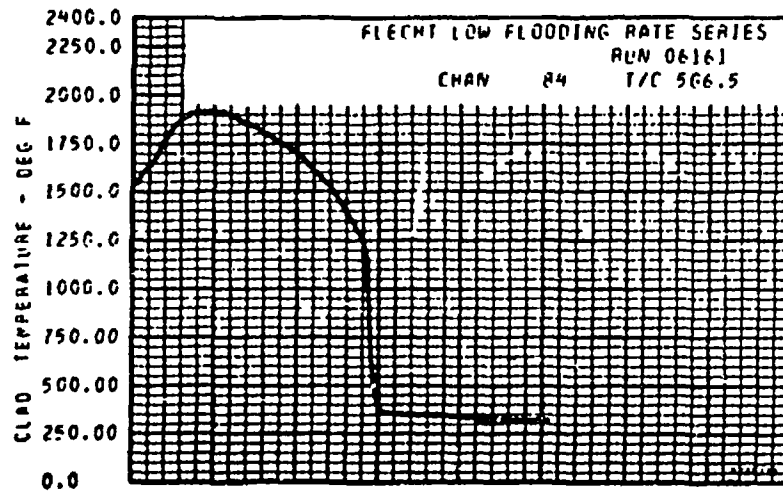
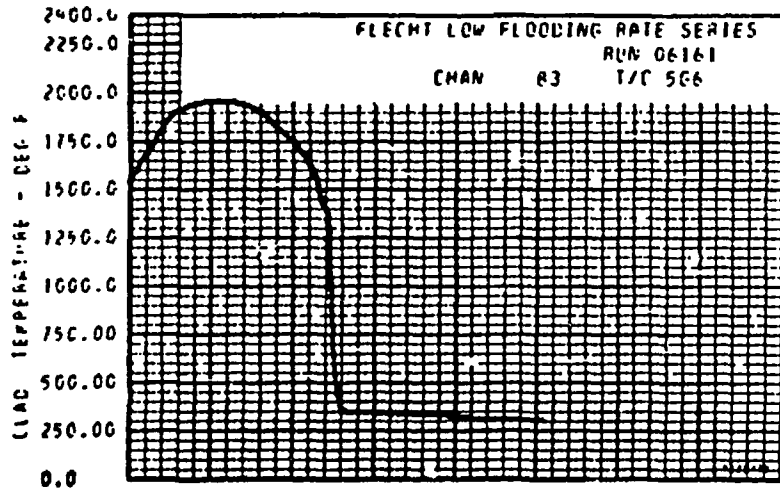
B. INITIAL HOUSING TEMPERATURE

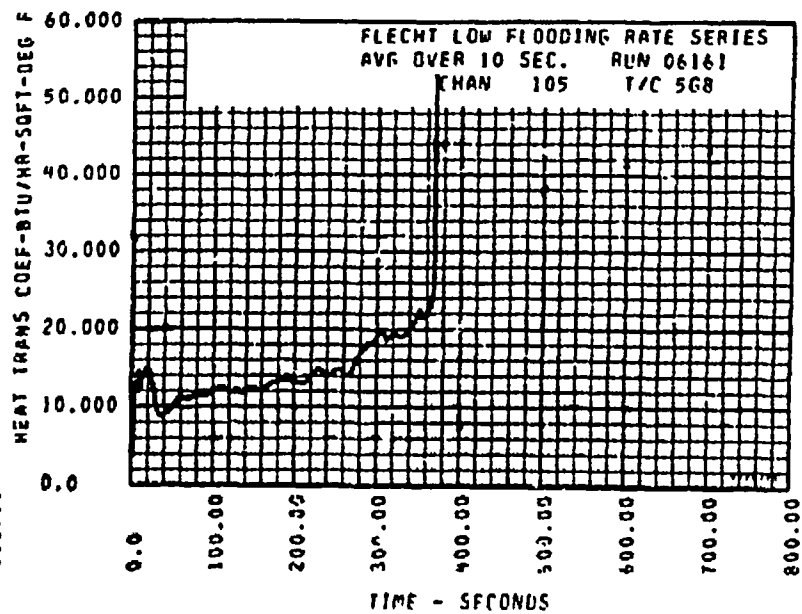
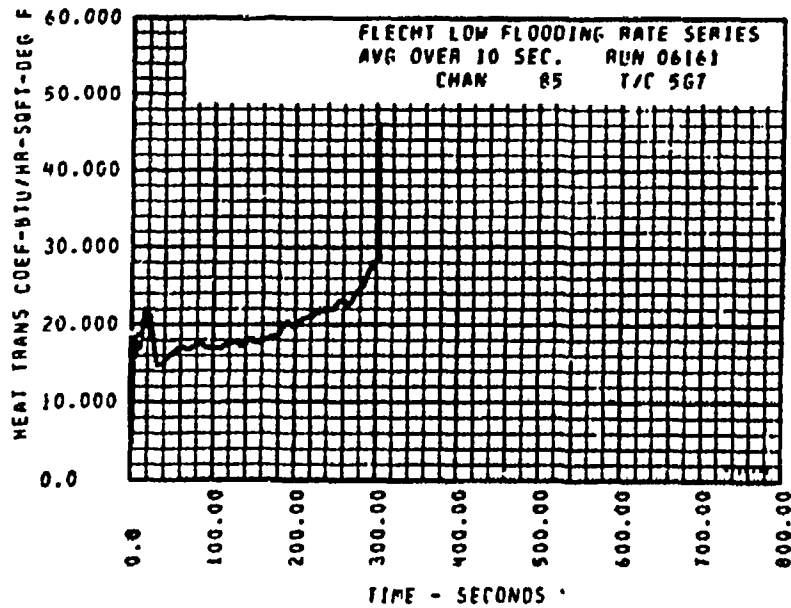
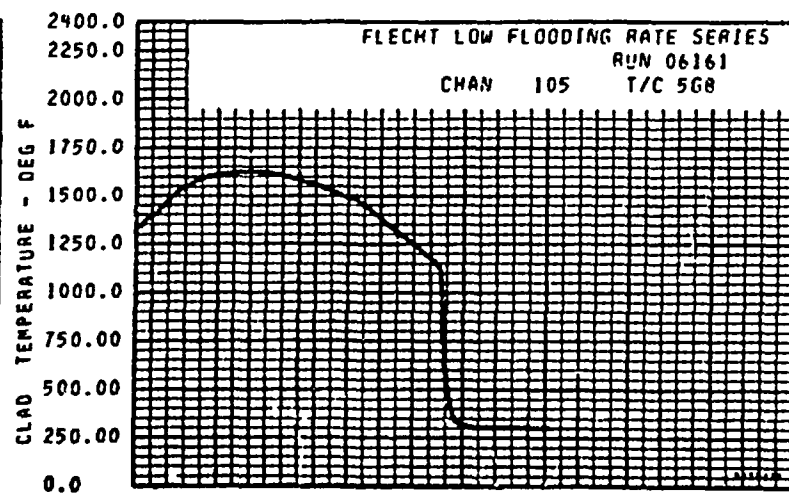
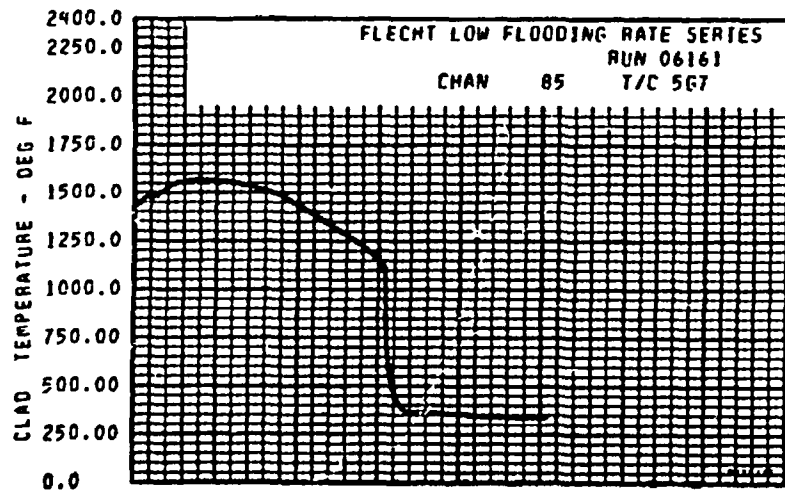
Back Side Elevation, Ft.	Temperature, °F
0	<u>265</u>
2	<u>602</u>
4	<u>768</u>
5.5	<u>821</u>
6	<u>818</u>
6.5	<u>690</u>
7	<u>679</u>
7.5	<u>704</u>
8	<u>775</u>
10	<u>616</u>
12	<u>287</u>
Average	<u>639</u>
Lower Plenum	<u>120</u>
Upper Plenum	<u>270</u>

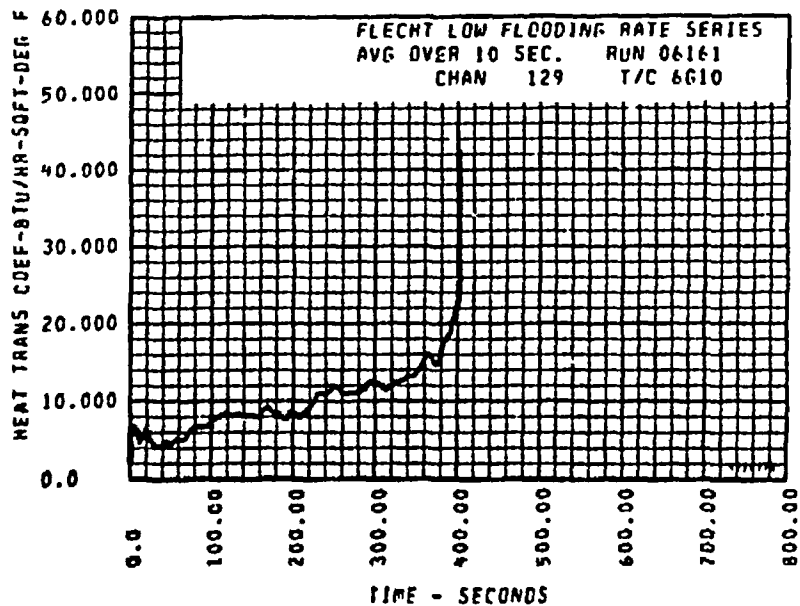
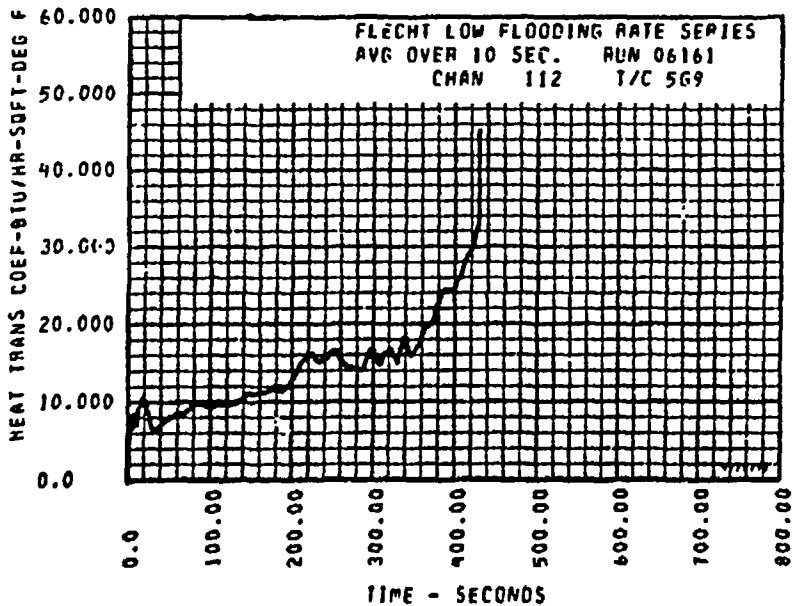
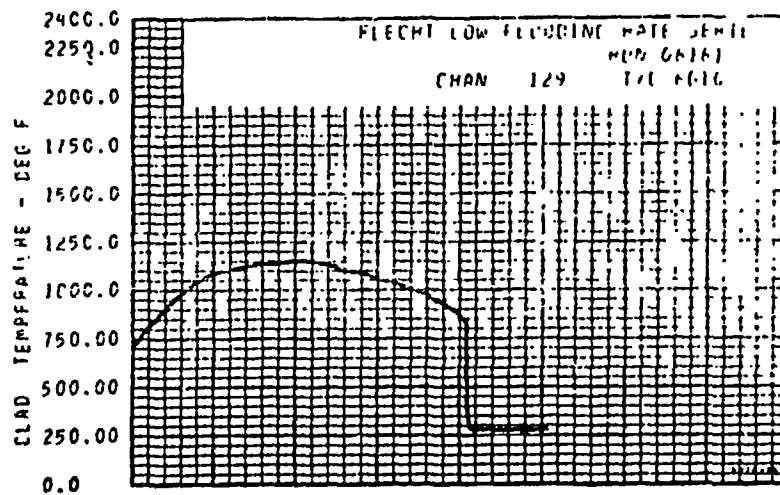
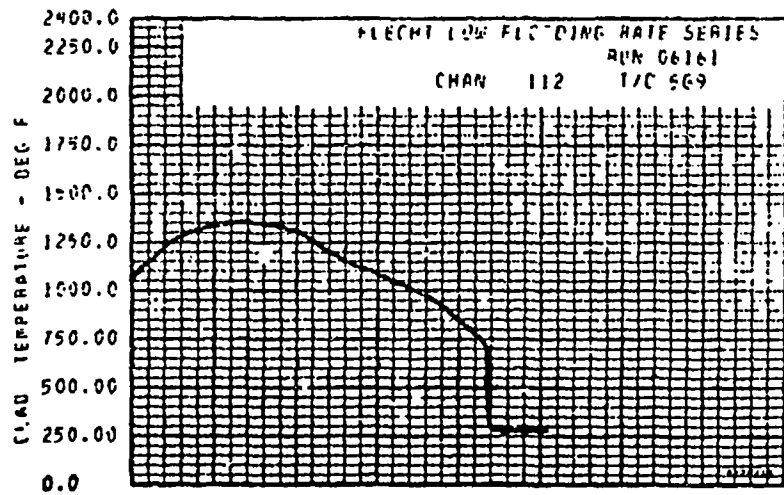
FLECHT-LOW FLOODING PATE ROD THERMOCOUPLE DATA

ROD/ELEV	TEMPERATURE AT POWER ON (DEG.F)	TIME OF POWER ON (SEC.)	INITIAL TEMPERATURE AT FLOOD (DEG.F)	RUN NUMBER MAXIMUM TEMPERATURE (DEG.F)	C6161 TEMPERATURE RISE (DEG.F)	TURNAROUND TIME (SEC.)	QUENCH TEMPERATURE (DEG.F)	QUENCH TIME (SEC.)
4HC.5	307.	-57.9	603.	609.	6.	1.2	586.	6.0
4H1	385.	-58.3	672.	679.	7.	1.6	614.	13.0
4H1.5	485.	-57.8	731.	739.	8.	2.0	648.	21.8
4H2	577.	-57.3	973.	986.	14.	2.2	747.	39.2
4H4	762.	-57.8	1439.	1579.	140.	46.2	847.	157.0
4H4	729.	-56.8	1603.	1937.	337.	108.0	1026.	266.6
4D1	644.	-57.4	1463.	1445.	377.	75.8	1008.	275.3
4D6.5	517.	-56.3	1437.	1892.	454.	83.2	1120.	315.4
4D7	420.	-57.3	1401.	1598.	197.	54.6	814.	359.8
4D8	642.	-57.4	1304.	1783.	479.	137.0	939.	393.8
4D9	434.	-57.4	998.	1388.	390.	191.0	698.	456.0
4D11	269.	-57.8	709.	1224.	514.	216.0	727.	454.8
4E11	771.	-57.3	571.	1328.	490.	221.0	713.	414.7
4E12	147.	-57.4	249.	348.	249.	203.0	392.	321.6
5FC	262.	-57.3	299.	299.	0.	0.0	283.	1.4
5FL.5	292.	-58.8	594.	598.	4.	1.0	561.	4.5
5F1	361.	-57.9	648.	655.	7.	1.4	507.	10.2
5F1.5	4	* R A D T H E R M O C O U P L E			D A T A *			
5F2	526.	-57.8	930.	944.	14.	2.4	736.	34.8
5F3	690.	-57.8	1219.	1249.	31.	12.0	713.	85.9
5F4	758.	-57.9	1437.	1537.	100.	40.2	767.	157.9
5F6	597.	-58.8	1556.	1959.	403.	92.0	1524.	230.7
5G6	696.	-56.8	1541.	1960.	419.	114.0	1352.	243.6
5G6.5	645.	-57.4	1516.	1914.	399.	95.0	1180.	285.6
5G7	651.	-57.3	1422.	1574.	152.	81.2	1117.	308.0
5G8	653.	-56.4	1315.	1628.	313.	139.0	1113.	373.5
5G9	517.	-57.3	1055.	1355.	300.	136.0	715.	434.9
5C11	274.	-57.4	573.	908.	335.	210.0	540.	465.0
5G12	270.	-57.3	543.	922.	379.	205.0	516.	487.0
1G4	749.	-57.8	1374.	1402.	28.	8.2	862.	116.9
1G6	782.	-58.3	1530.	1696.	166.	77.2	896.	279.1
1G10	517.	-57.8	671.	982.	111.	71.2	595.	456.0
3H2	560.	-57.3	974.	986.	13.	2.2	742.	34.8
3H6	748.	-57.4	1576.	1898.	322.	79.0	973.	276.8
3H8	721.	-56.8	1371.	1907.	436.	138.0	983.	382.2
3H10	394.	-57.8	834.	1293.	459.	113.0	977.	374.7
6E9	882.	-68.0	1483.	2028.	543.	123.0	900.0	298.6
6E8.5	588.	-68.0	1377.	1804.	488.	111.0	1063.9	322.7
6E7	640.	-68.0	1378.	1532.	168.	74.4	1029.1	324.7
6E8	620.	-68.0	1287.	1768.	472.	178.0	830.5	436.0
6E9	476.	-68.0	844.	1338.	306.	186.0	749.7	445.9
6E10	274.	-68.0	696.	1263.	678.	220.0	744.2	483.0
6E11	272.	-68.0	698.	1099.	602.	224.0	728.5	430.0

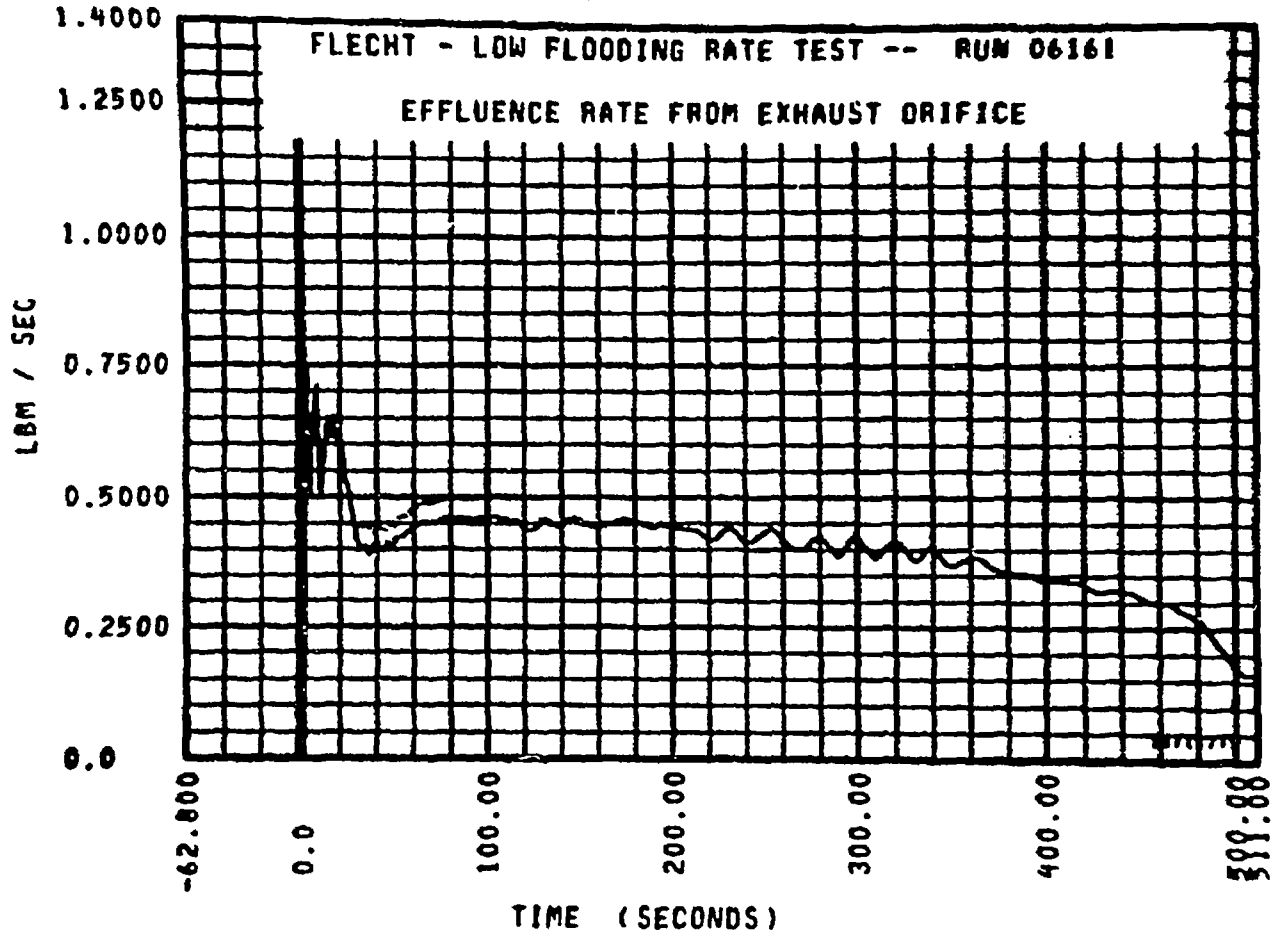
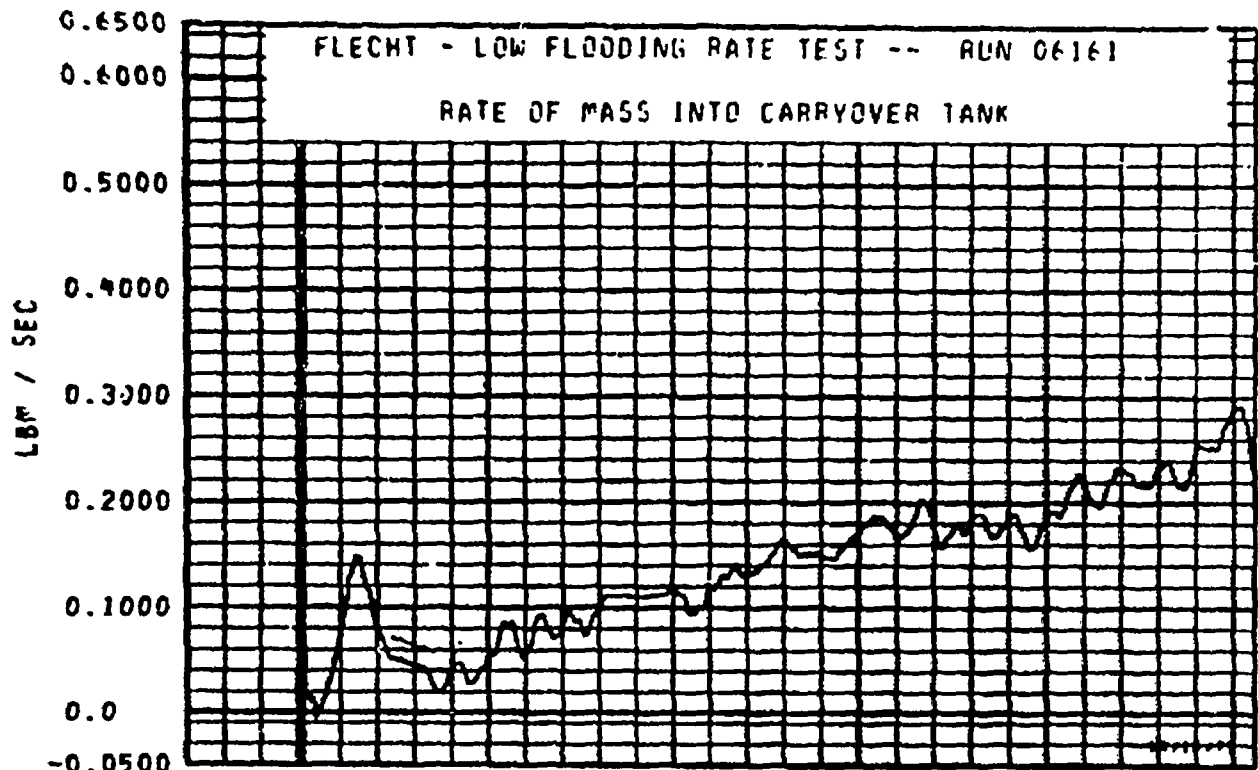


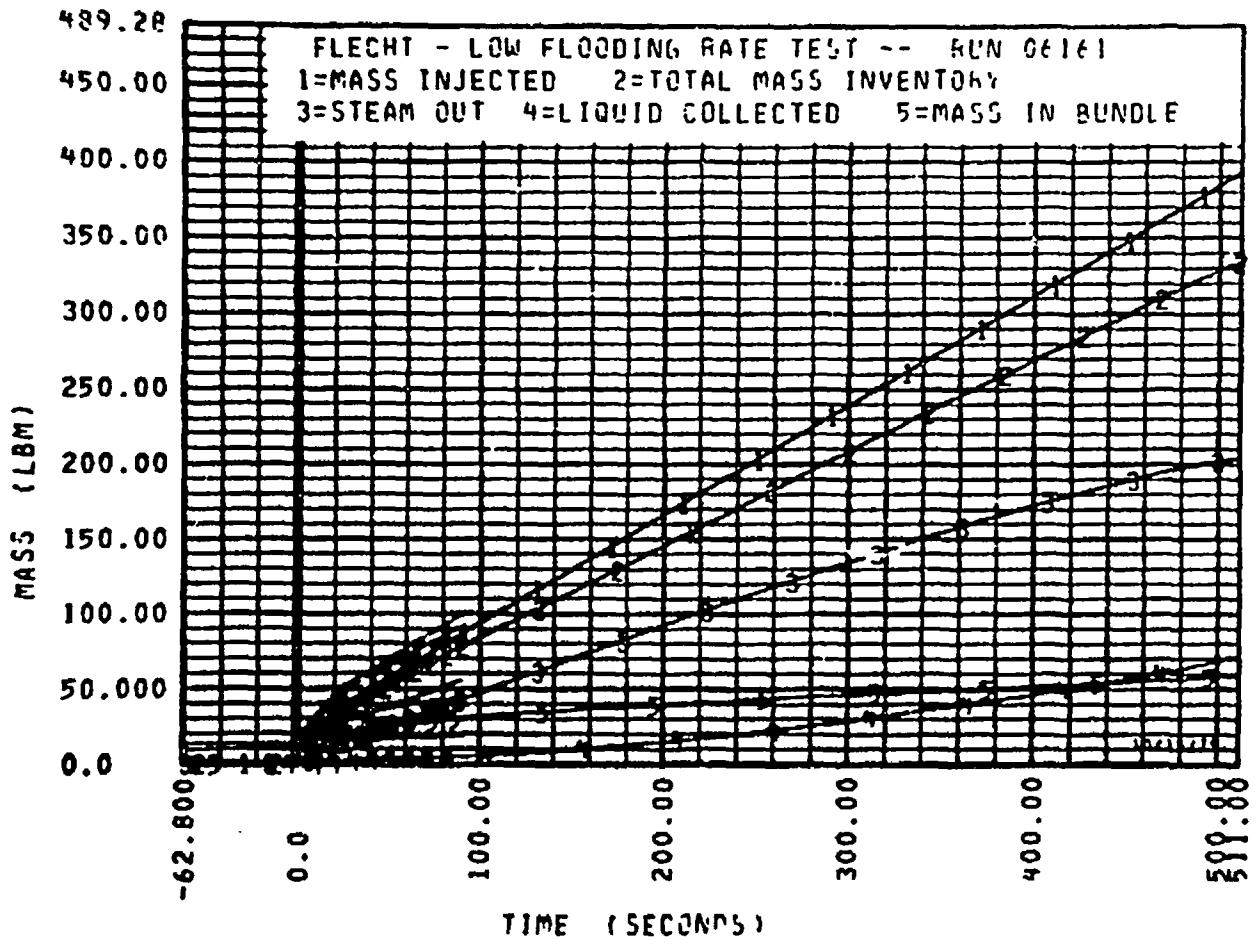


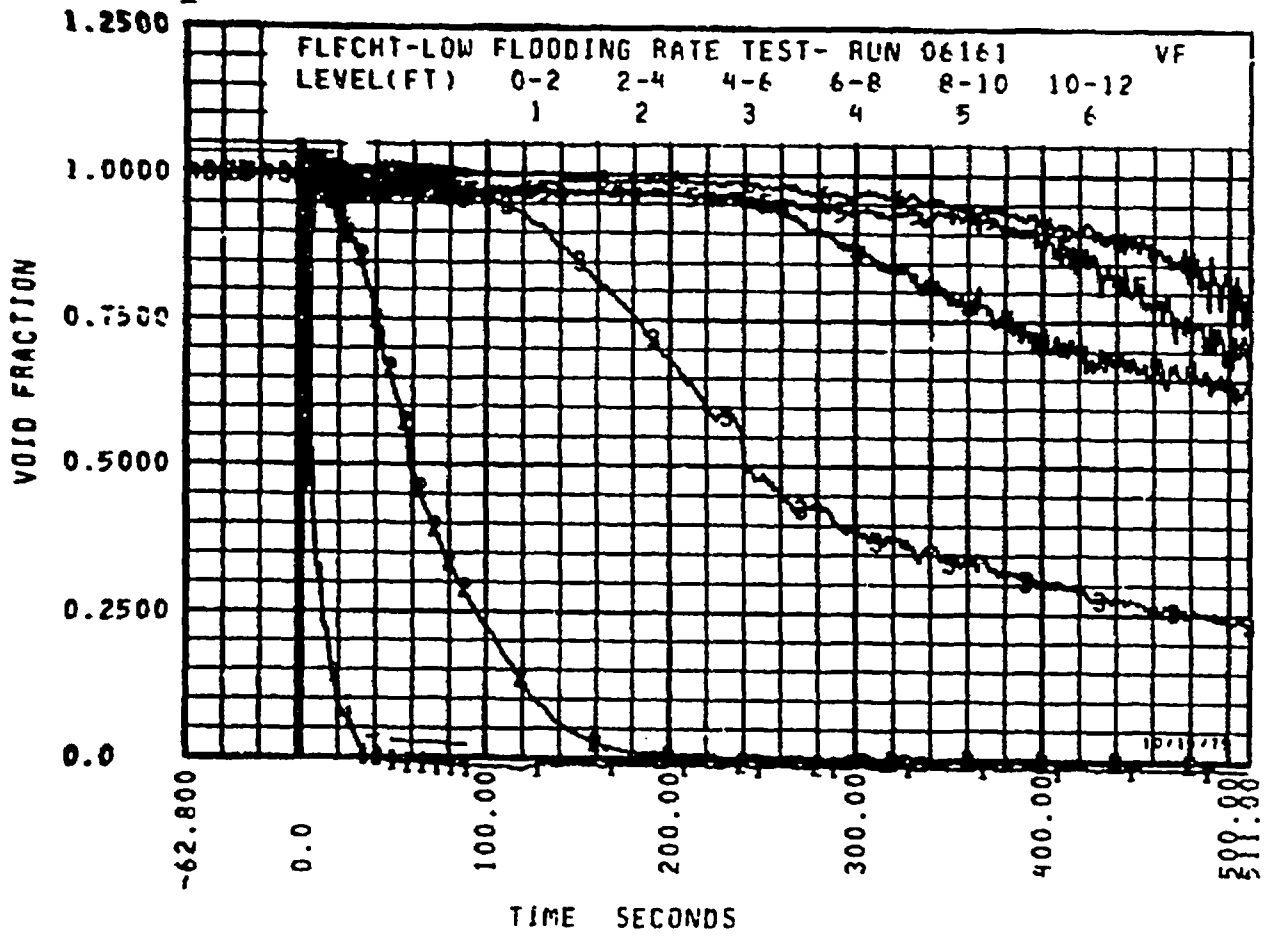
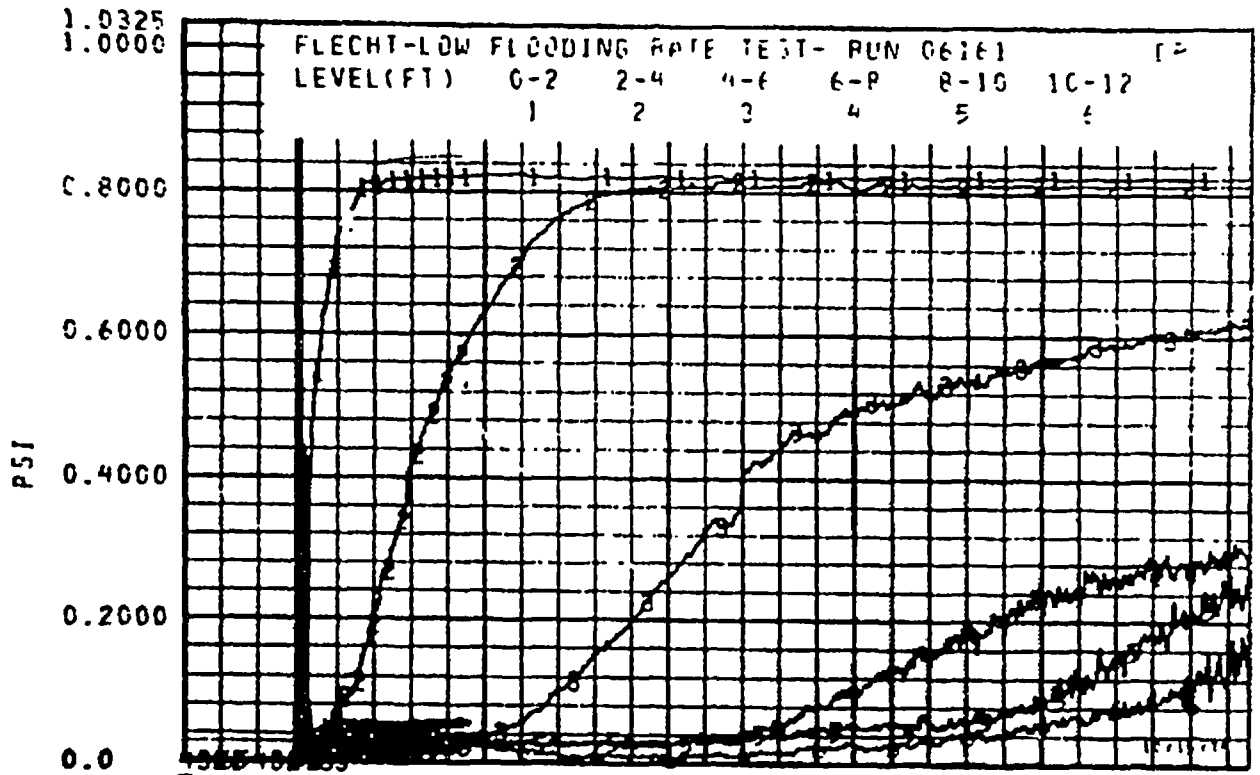


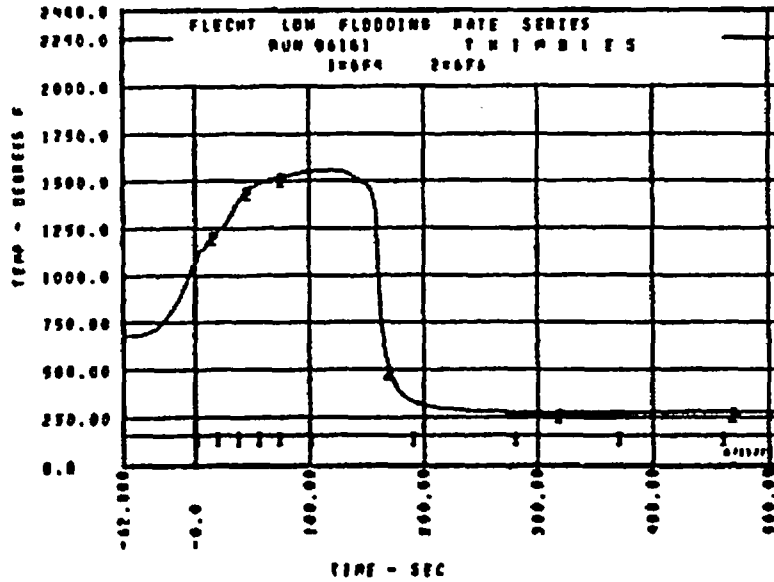
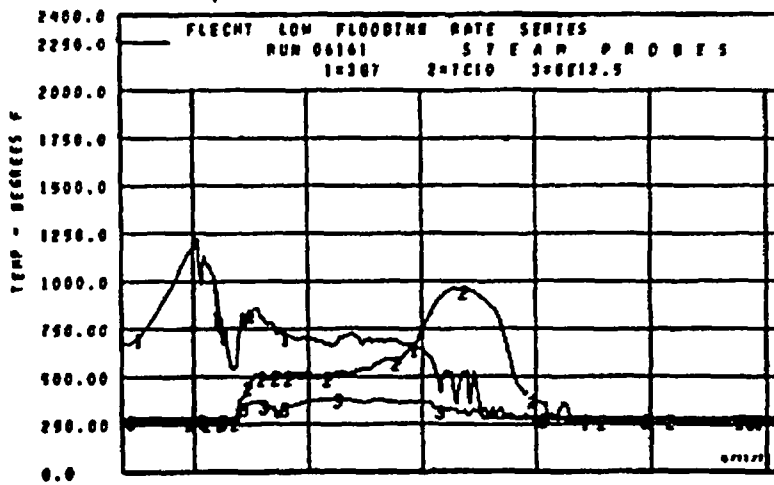


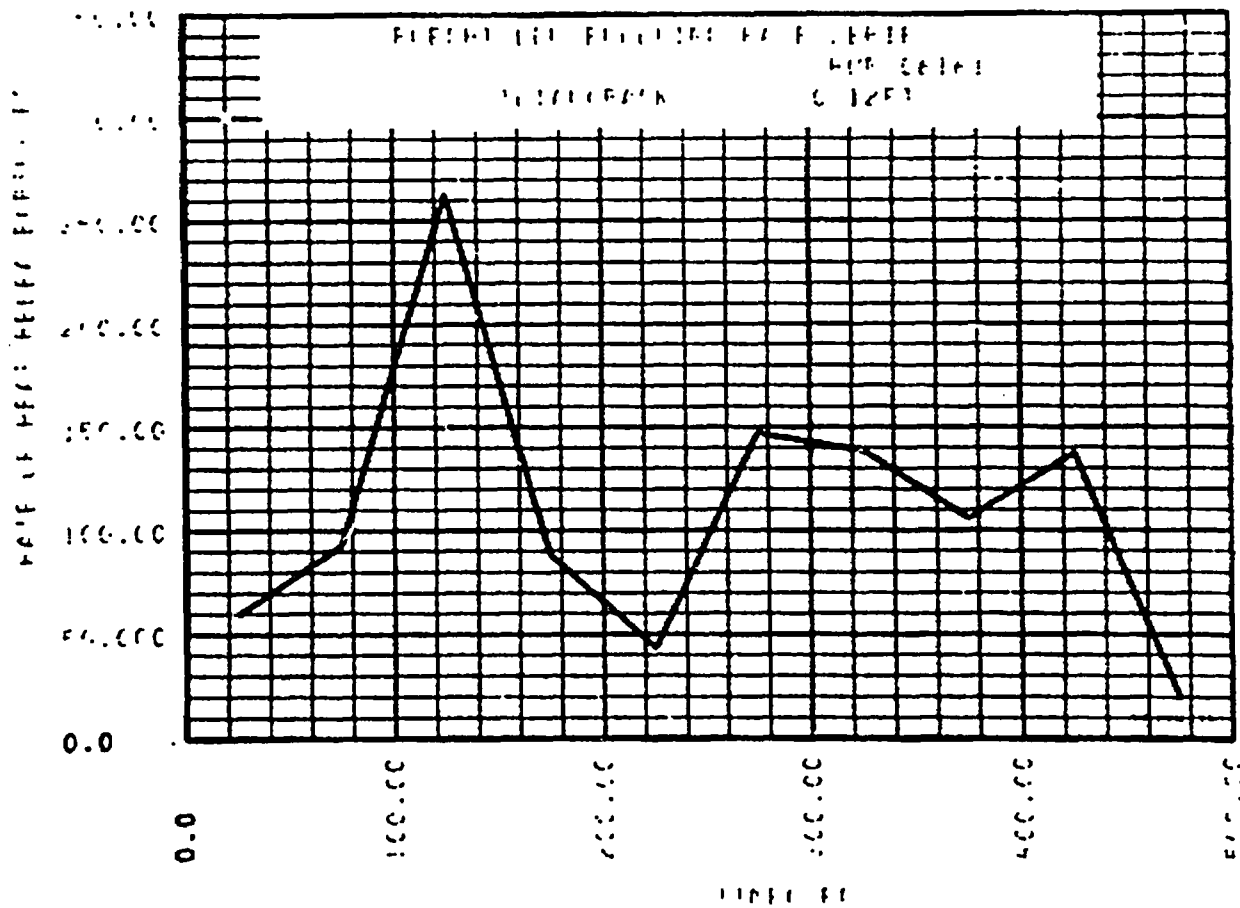
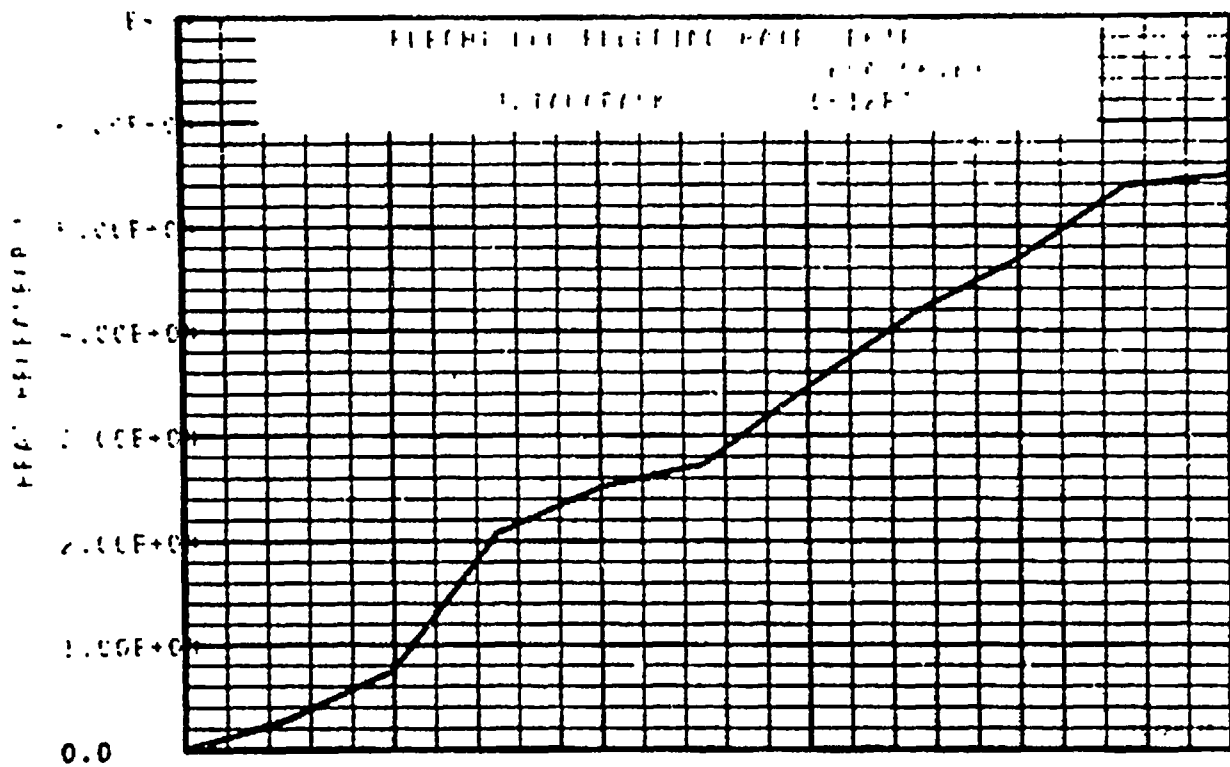
6











FLECHT - LOW FLOODING RATE TEST

SUMMARY SHEET

COSINE AXIAL POWER PROFILE

RUN NO. 06218

DATE: 6/11/75

A. RUN CONDITIONS

Upper Plenum Pressure, psia	<u>40</u>	
Initial Clad Temperature (6 Ft) ^{°F} At Flood	<u>1,601</u>	Rod T/C <u>4H6</u>
Rod Peak Power, kw/ft	<u>0.95</u>	
Flooding Rate, in/sec	<u>6 (5 sec)</u>	
	<u>0.6</u>	
	<u>---</u>	
Coolant Temperature, ^{°F}	<u>129</u>	
Bundle Radial Power Profile	<u>FLECHT</u>	
Disconnected Rods	<u>7F</u>	

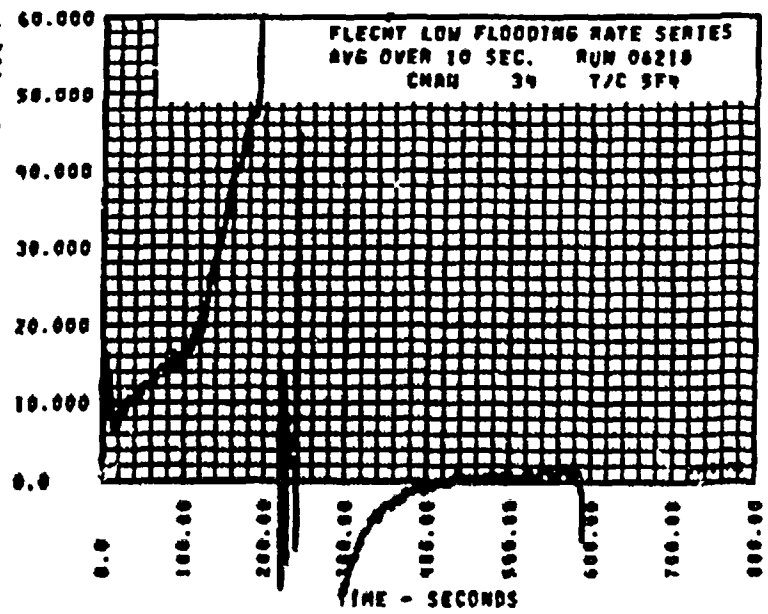
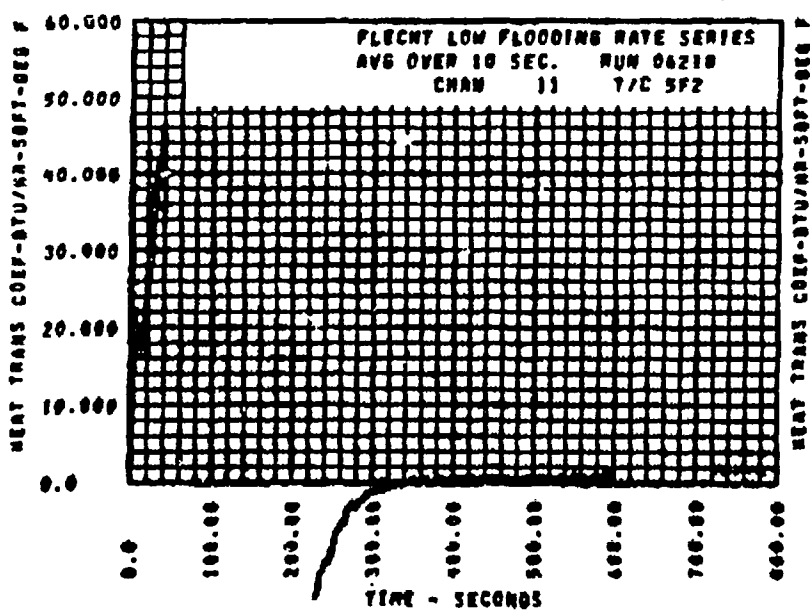
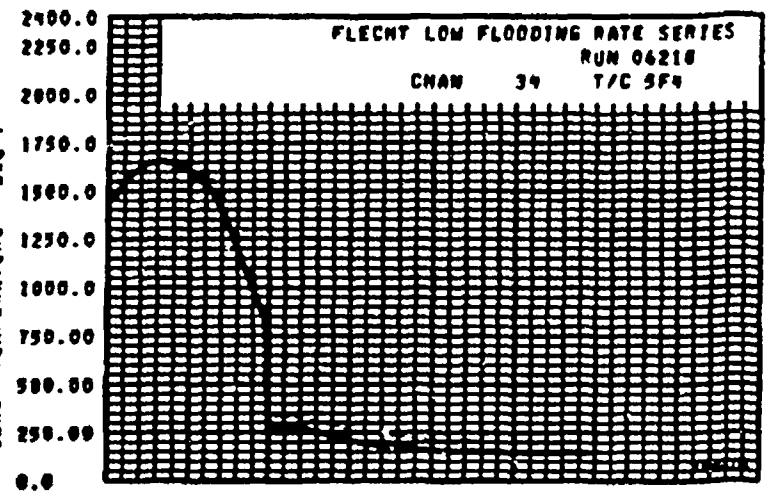
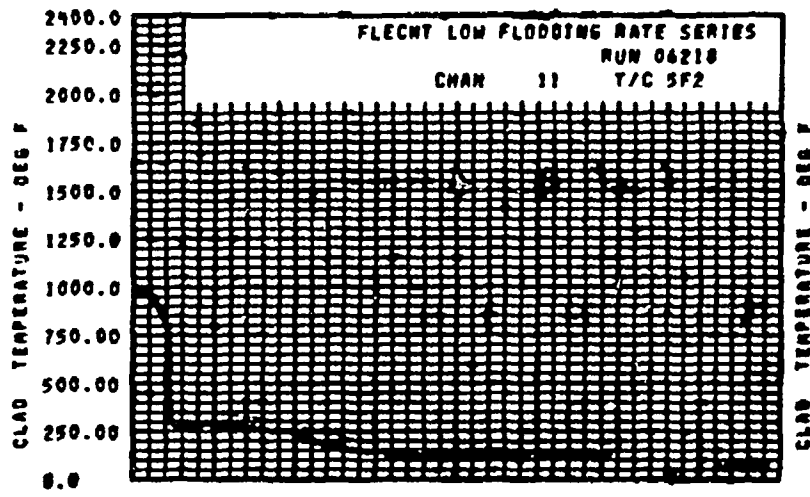
B. INITIAL HOUSING TEMPERATURE

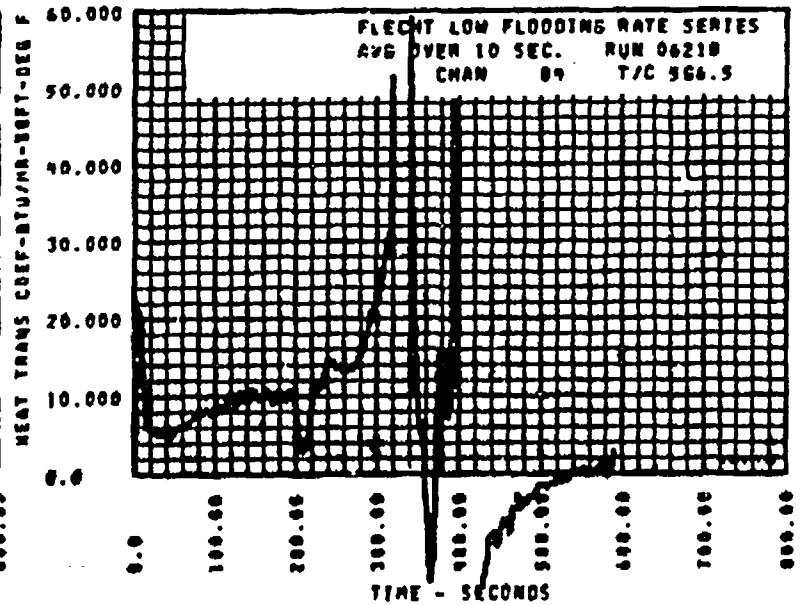
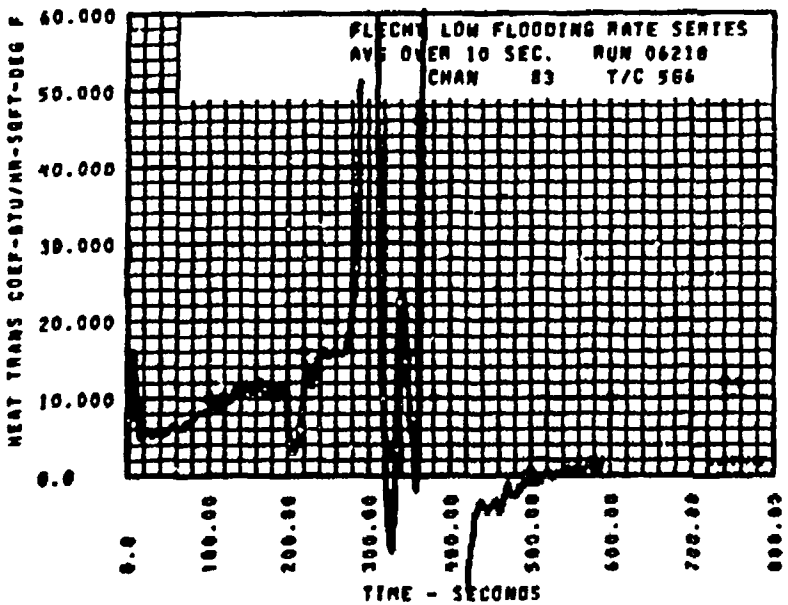
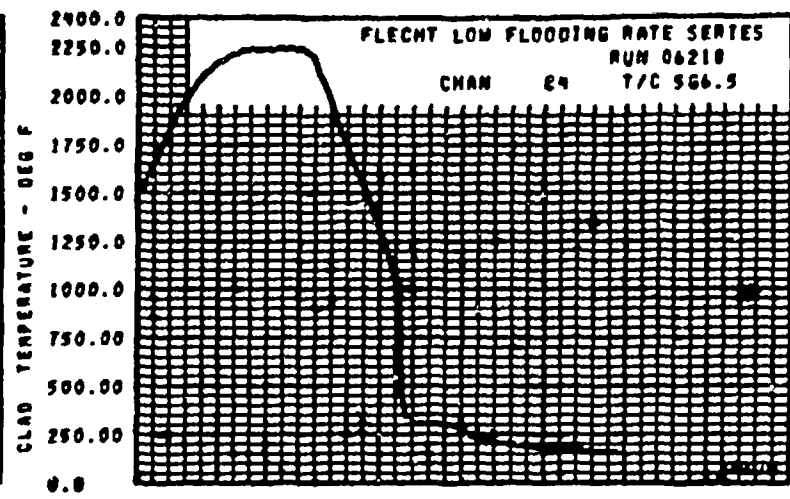
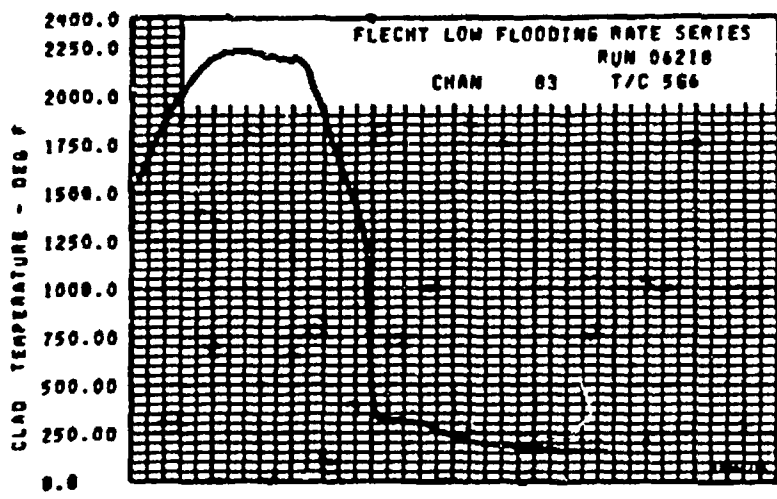
Back Side Elevation, Ft.	Temperature, ^{°F}
0	<u>274</u>
2	<u>792</u>
4	<u>796</u>
5.5	<u>821</u>
6	<u>823</u>
6.5	<u>703</u>
7	<u>718</u>
7.5	<u>743</u>
8	<u>807</u>
10	<u>815</u>
12	<u>318</u>
Average	<u>692</u>
Lower Plenum	<u>121</u>
Upper Plenum	<u>270</u>

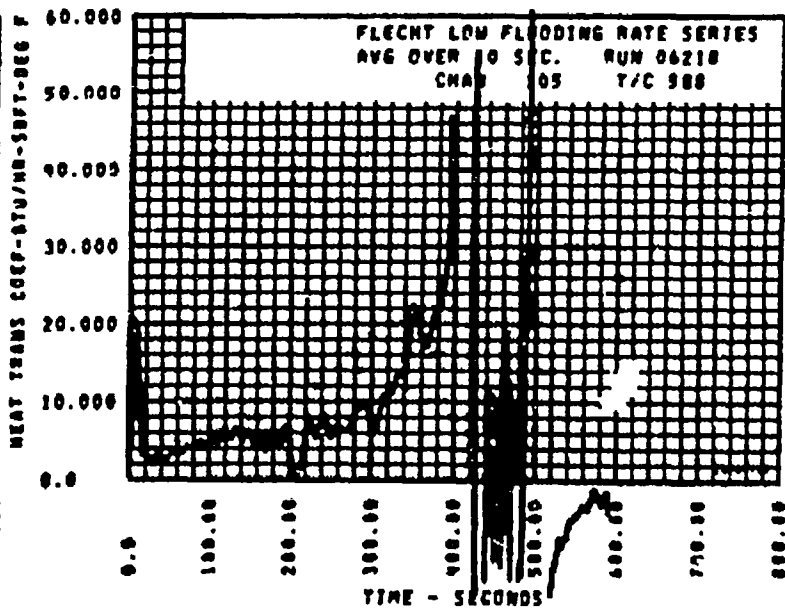
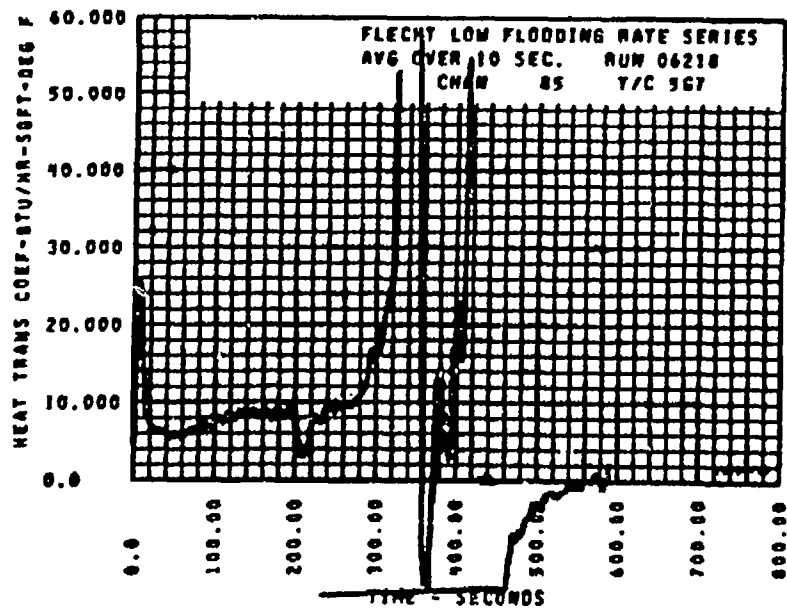
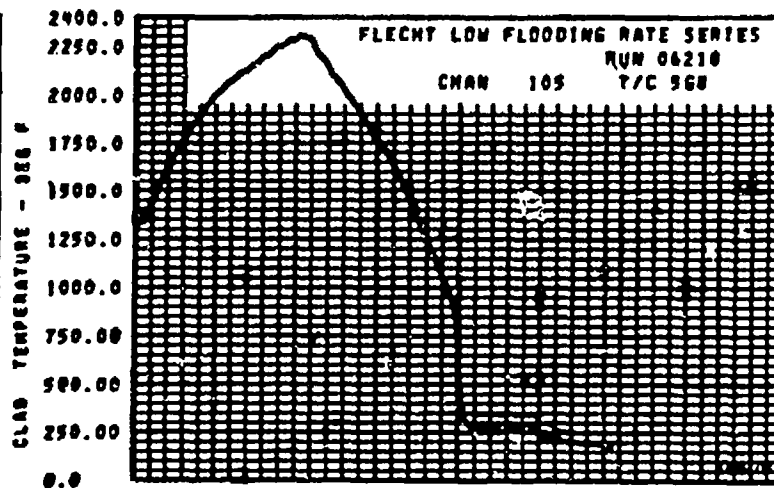
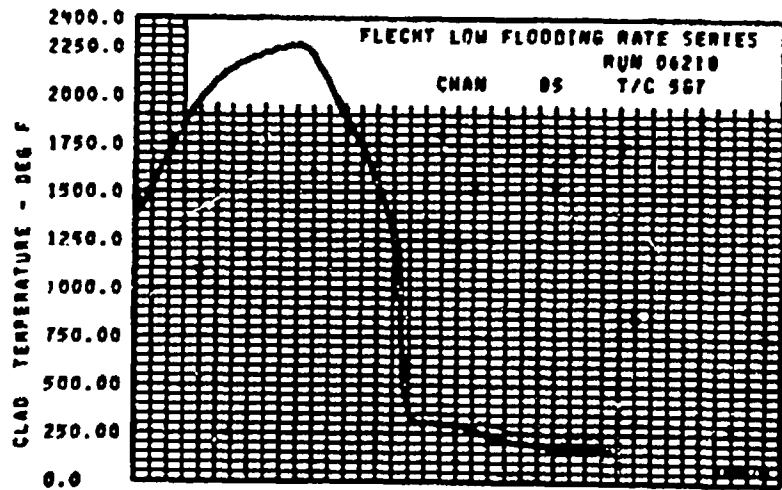
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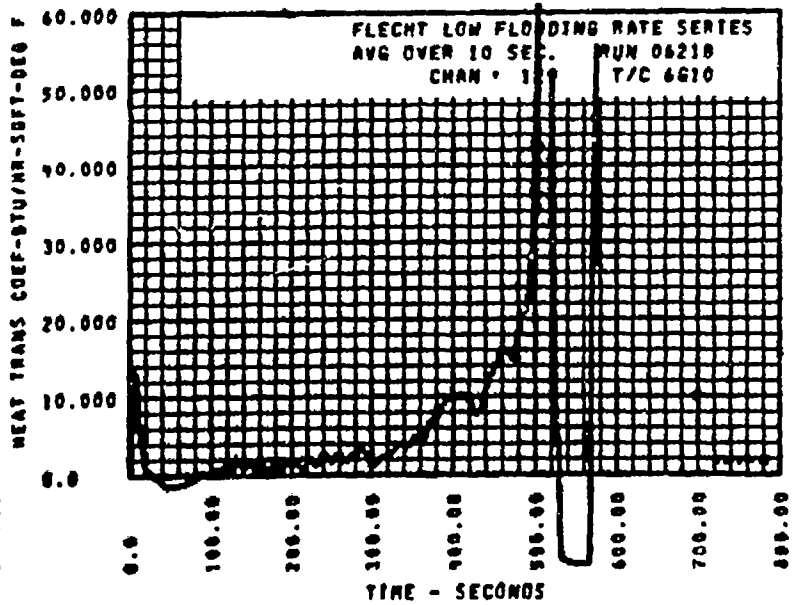
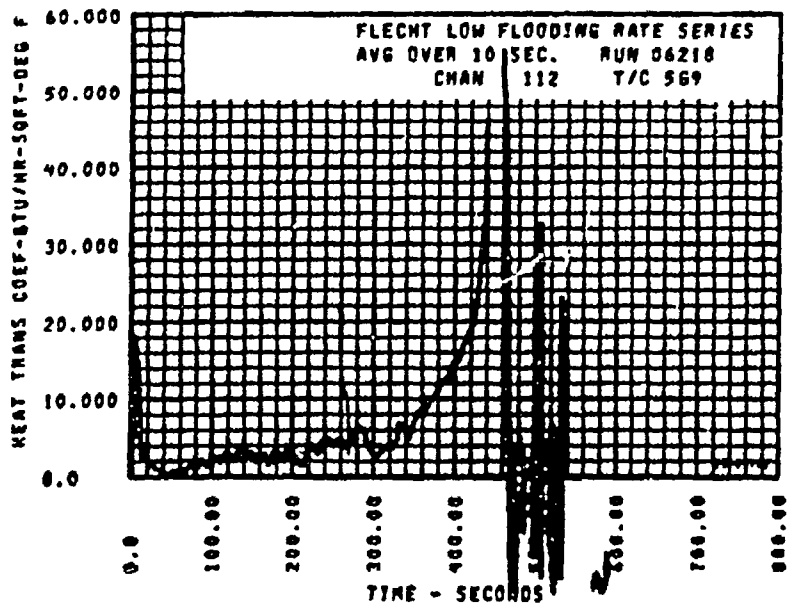
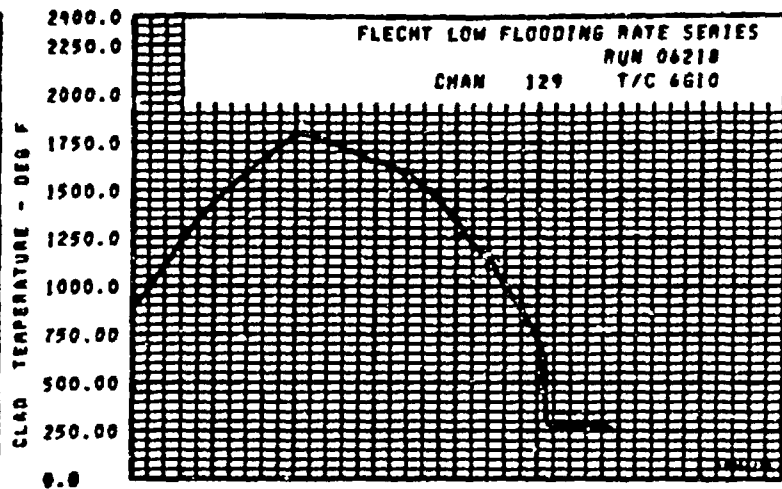
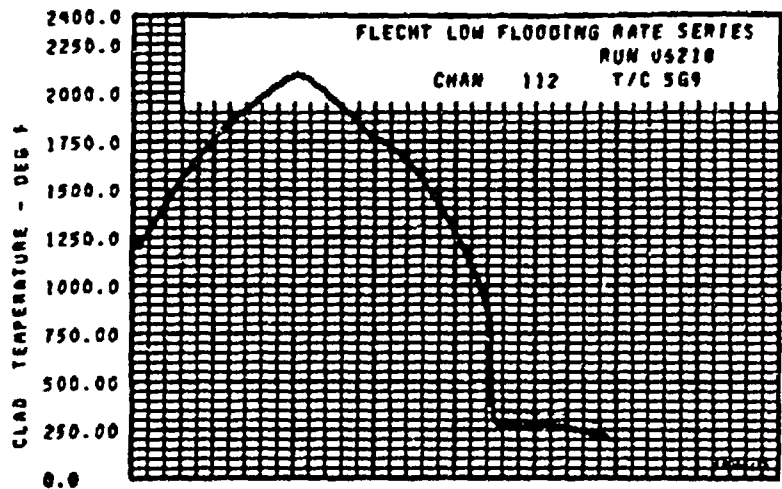
FLECHT-LOW FLOODING RATE ROD THERMOCOUPLE DATA

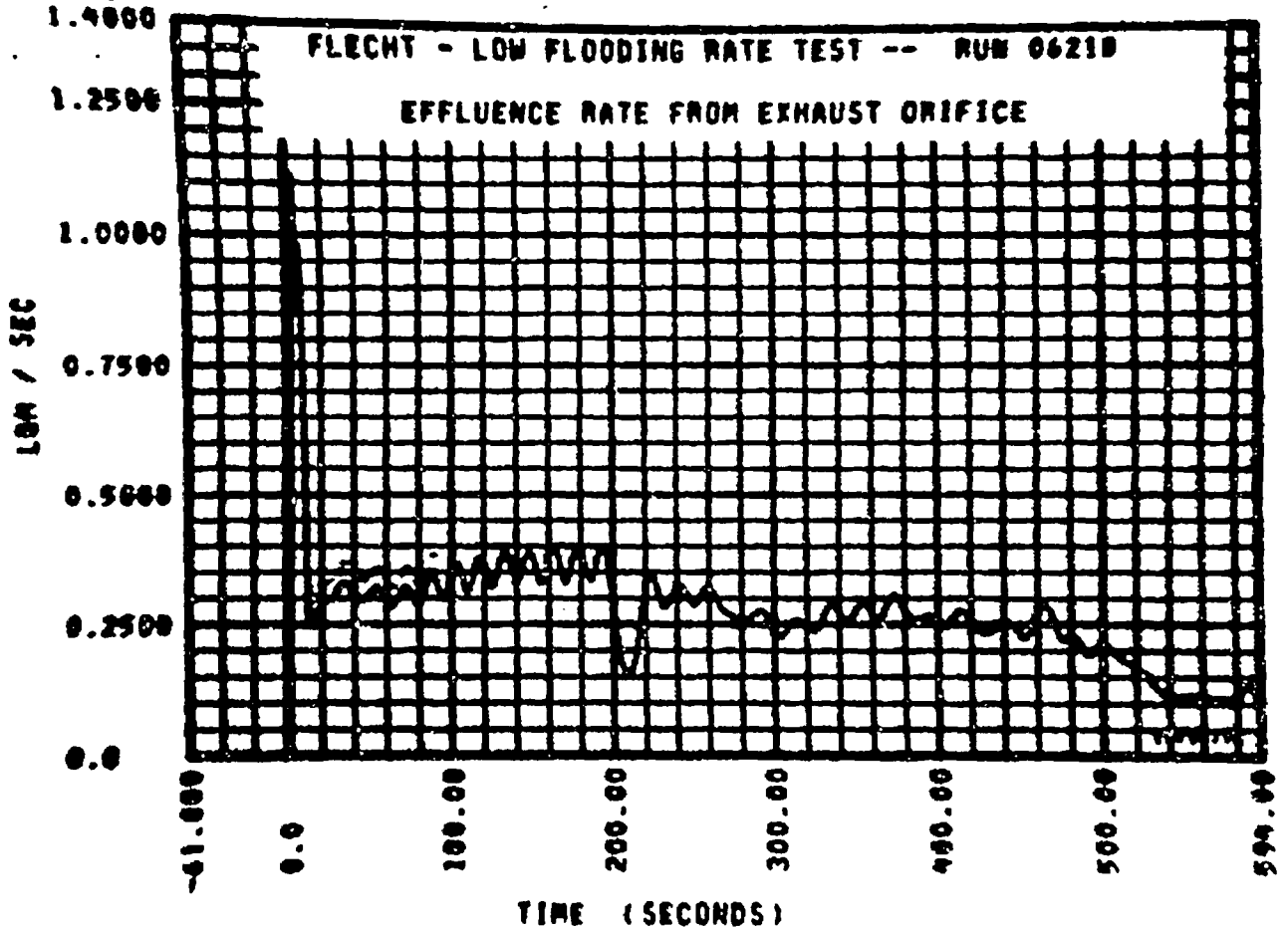
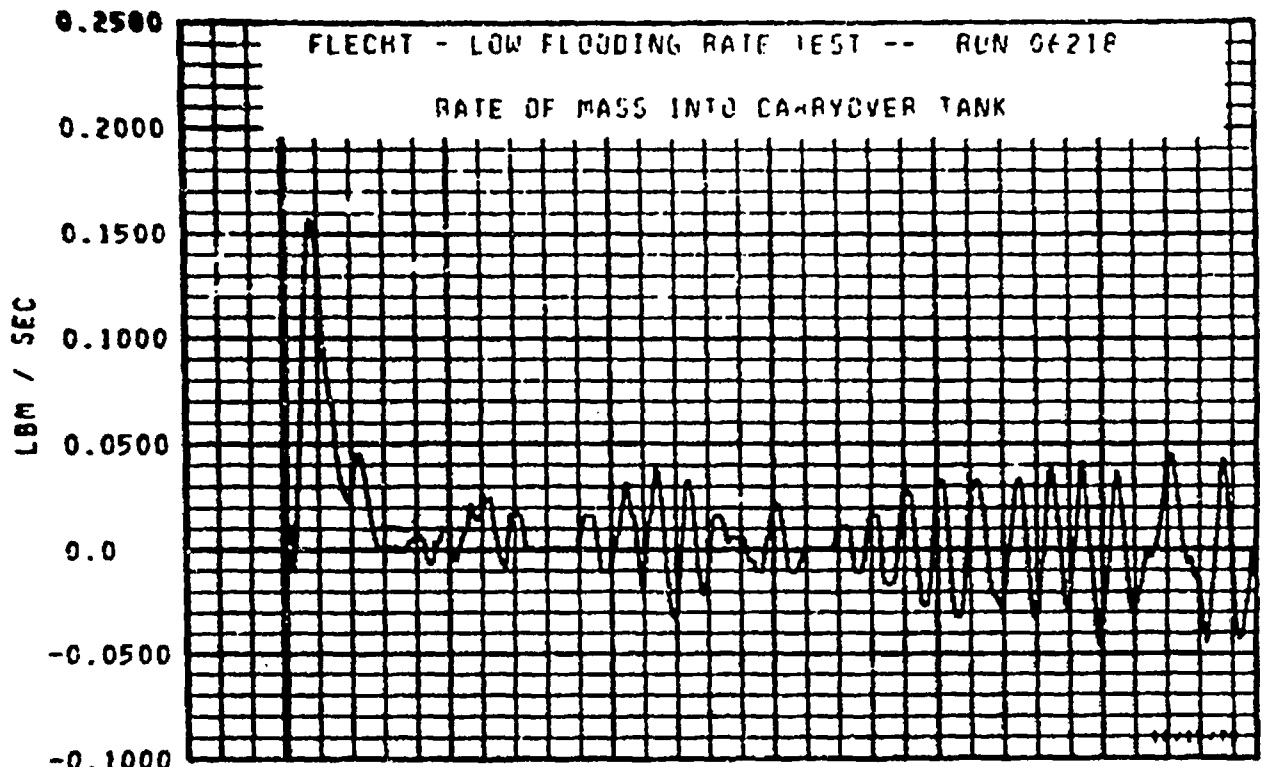
ROD/ELEV	TEMPERATURE AT QUENCH (DEG.F)	TIME OF QUENCH (SEC.)	INITIAL TEMPERATURE AT FLOOD (DEG.F)	RUN NUMBER MAXIMUM TEMPERATURE (DEG.F)	DETAILED TEMPERATURE RISE (DEG.F)	TRANSITION TIME (SEC.)	QUENCH TEMPERATURE (DEG.F)	QUENCH TIME (SEC.)
4M0.5	119.	-75.4	132.	630.	3.	0.4	616.	3.8
4M1	170.	-75.4	724.	737.	3.	0.4	671.	6.3
4M1.5	173.	-75.4	823.	825.	2.	0.6	688.	23.2
4M2	177.	-75.4	1053.	1059.	5.	1.4	704.	49.1
4M4	747.	-75.4	1470.	1711.	241.	45.3	929.	198.9
4M6	743.	-75.4	1631.	2117.	585.	124.3	1017.	274.3
8D6	157.	-75.4	1474.	2117.	643.	143.7	934.	383.6
8D6.5	443.	-75.4	1474.	2117.	643.	144.3	1007.	431.9
8D7	173.	-75.4	1433.	2217.	742.	153.3	930.	355.6
8D8	229.	-75.4	1871.	2141.	463.	221.3	743.	391.6
8D9	111.	-75.4	1142.	1772.	630.	231.7	764.	426.5
8D10	123.	-75.4	1474.	1710.	474.	231.3	662.	499.8
8D11	123.	-75.4	1474.	1674.	421.	229.1	664.	419.0
8D12	123.	-75.4	205.	154.	31.	274.1	851.	642.9
5F0	123.	-75.4	243.	270.	0.	0.3	747.	0.8
5F0.5	175.	-75.4	131.	134.	3.	0.4	796.	2.4
5F1	123.	-75.4	134.	194.	6.	0.5	833.	4.9
5F1.5	123.	-75.4	134.	194.	6.	0.5	833.	4.9
5F2	123.	-75.4	134.	194.	6.	0.5	833.	4.9
5F3	123.	-75.4	134.	194.	6.	0.5	833.	4.9
5F4	123.	-75.4	134.	194.	6.	0.5	833.	4.9
5F6	111.	-75.4	1572.	2244.	733.	129.1	1177.	292.6
5G6	713.	-75.4	1511.	2231.	720.	173.3	1284.	293.3
5G6.5	713.	-75.4	1511.	2231.	720.	173.3	1284.	293.3
5G7	713.	-75.4	1511.	2231.	720.	173.3	1284.	293.3
5G8	713.	-75.4	1511.	2231.	720.	173.3	1284.	293.3
5G9	713.	-75.4	1511.	2231.	720.	173.3	1284.	293.3
5G11	713.	-75.4	1511.	2231.	720.	173.3	1284.	293.3
5G12	713.	-75.4	1511.	2231.	720.	173.3	1284.	293.3
1G4	113.	-75.4	1393.	1454.	74.	49.7	977.	145.8
1G6	113.	-75.4	1423.	1423.	333.	112.3	924.	294.8
1G10	113.	-75.4	1017.	1310.	233.	174.3	994.	473.8
3M2	117.	-75.4	1053.	1049.	6.	1.4	769.	44.5
3M6	113.	-75.4	1574.	2120.	546.	115.3	947.	381.6
3M8	113.	-75.4	1314.	2211.	973.	191.3	947.	474.7
3M10	117.	-75.4	1041.	1730.	644.	179.3	754.	491.8
5E4	111.	-75.4	1314.	1740.	426.	65.7	885.	145.3
5E6	111.	-75.4	1314.	2231.	711.	129.3	1056.	381.6
5E8	111.	-75.4	1314.	2231.	711.	129.3	1157.	402.7
5E10	111.	-75.4	715.	1472.	1134.	207.8	652.	439.8

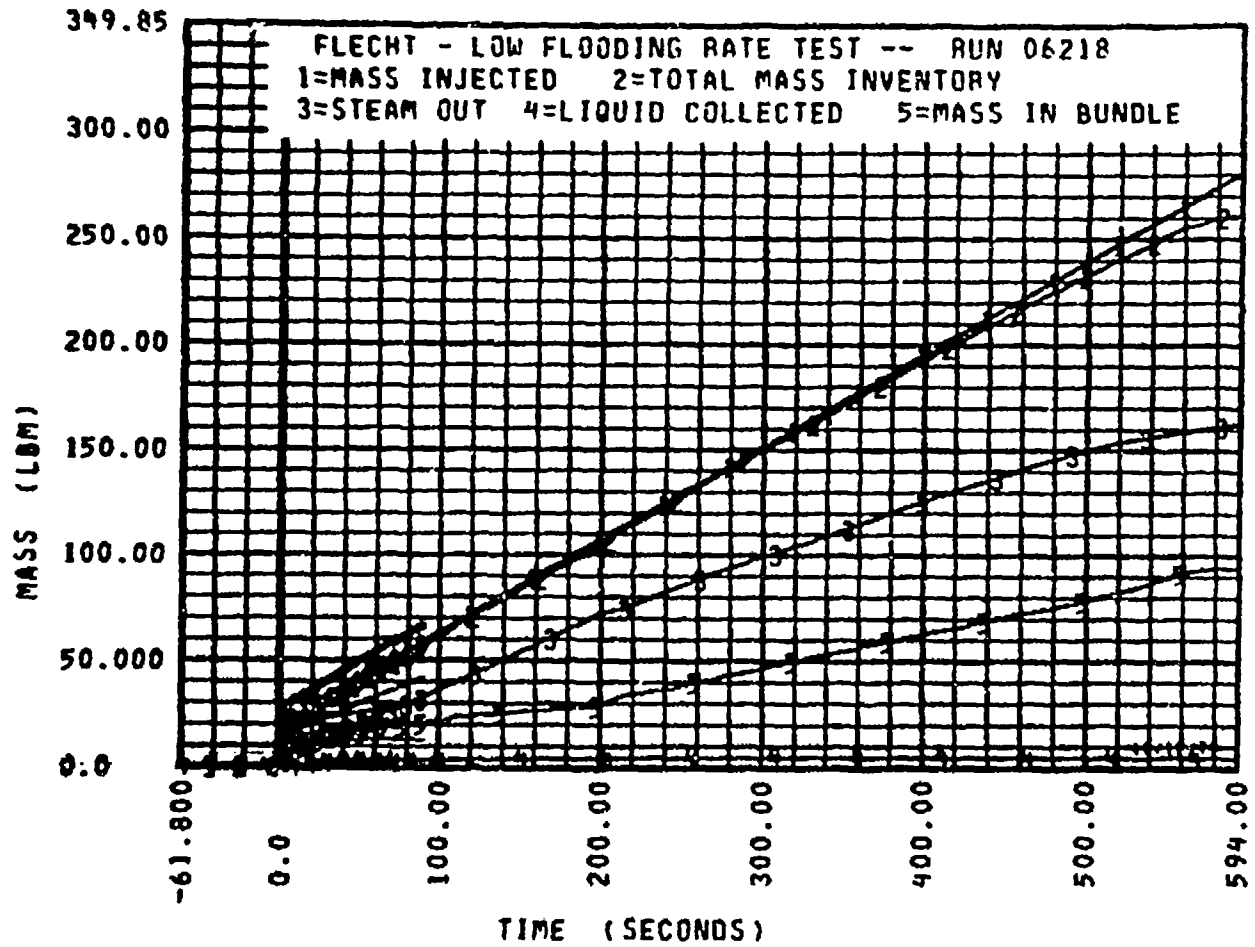


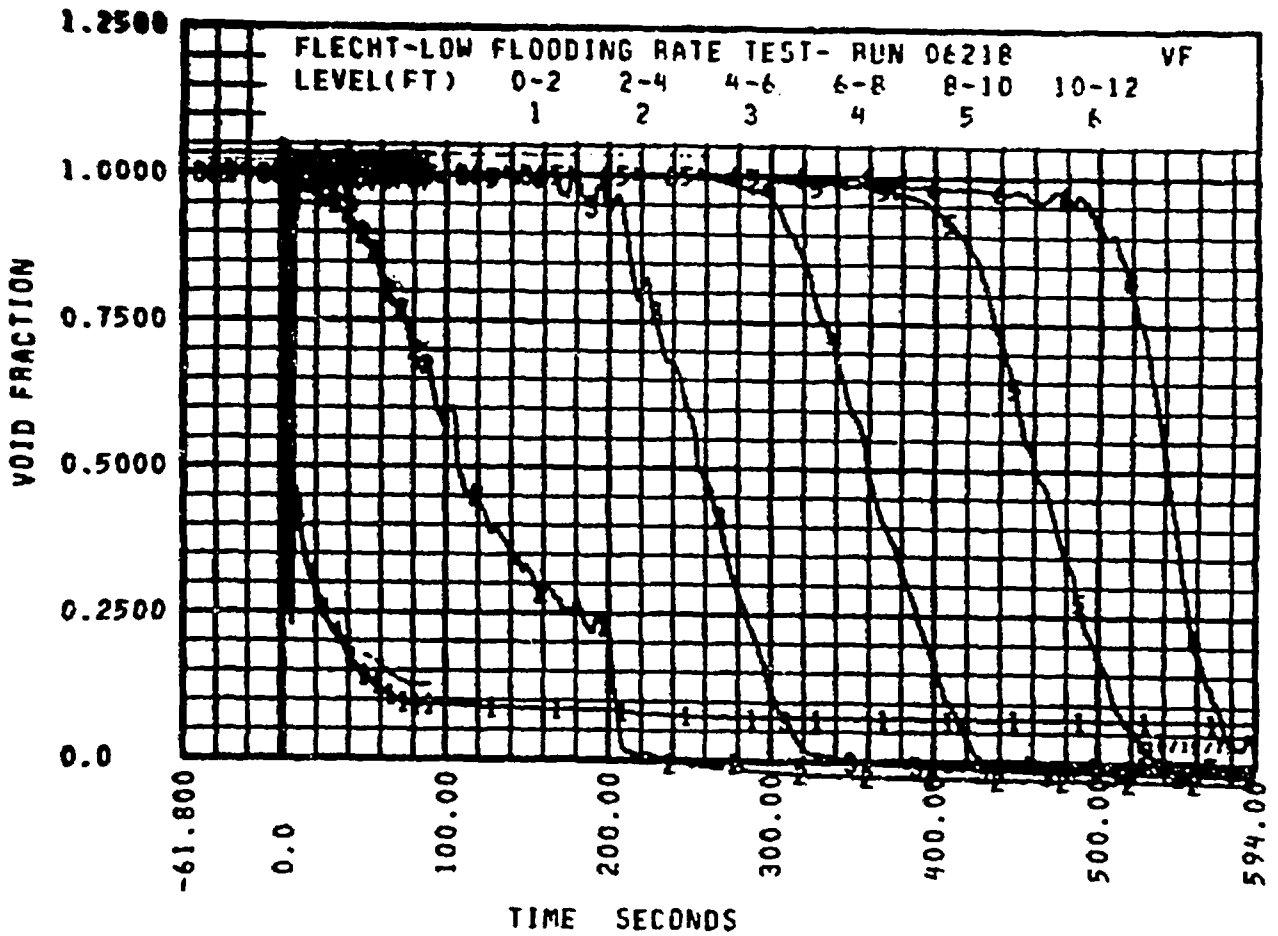
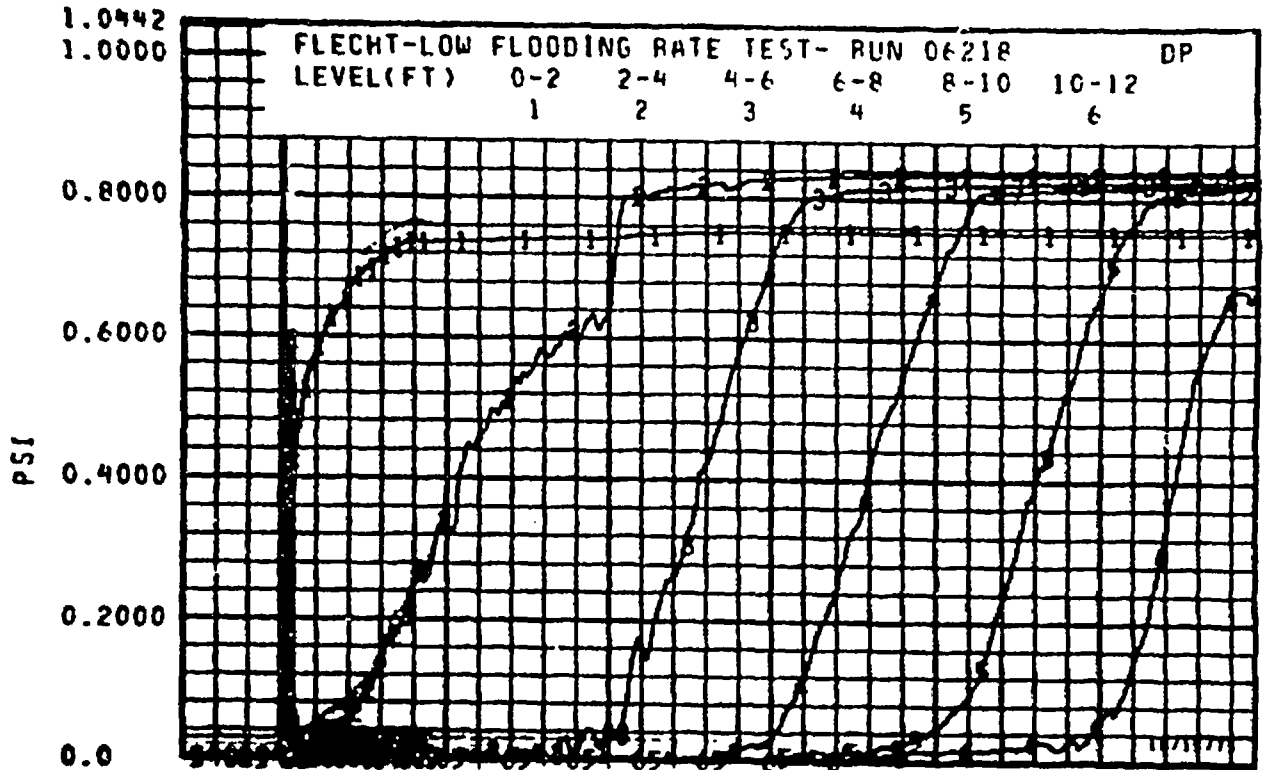


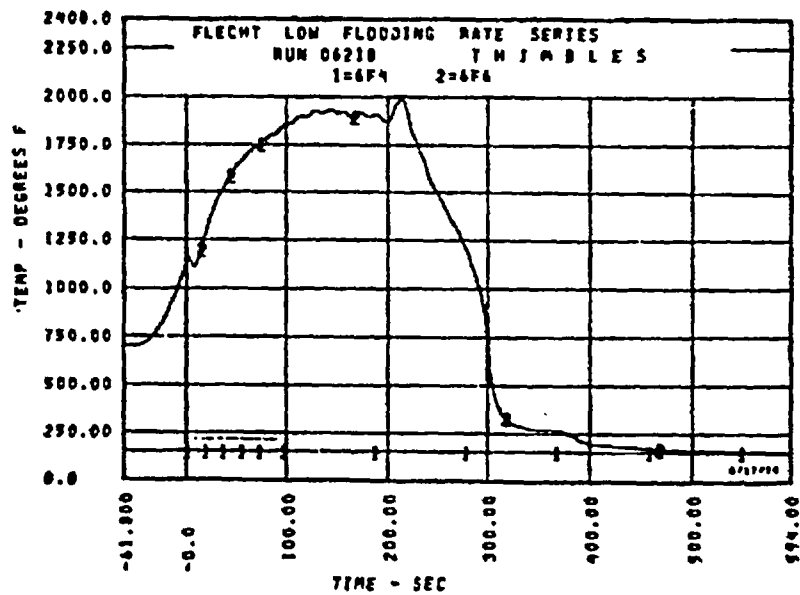
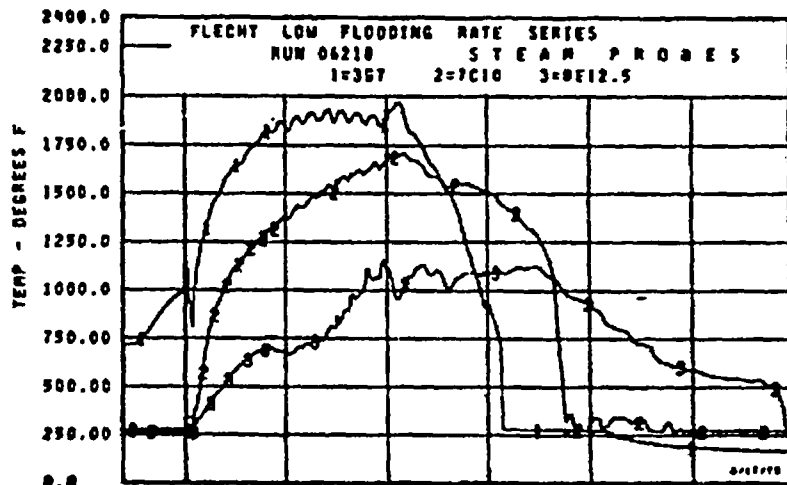


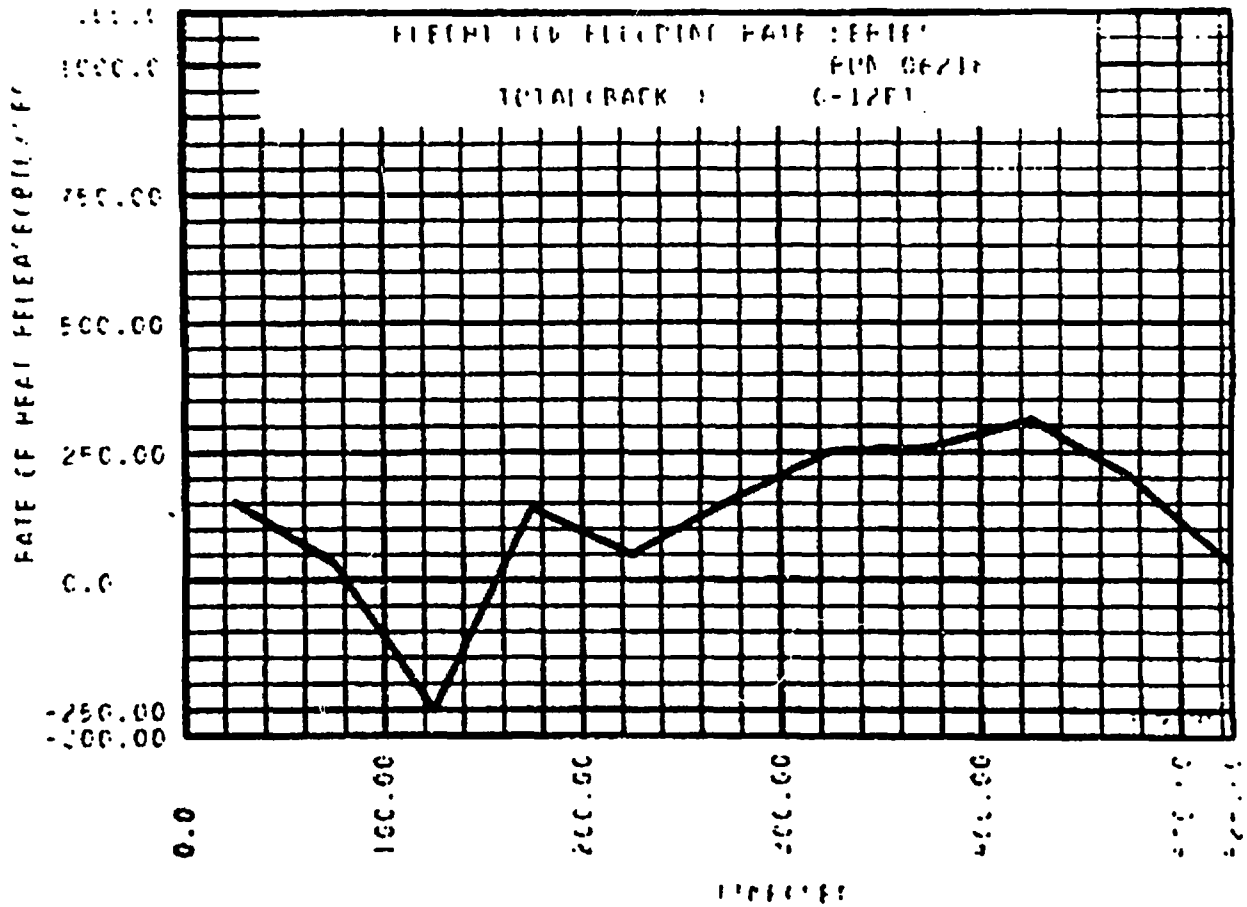
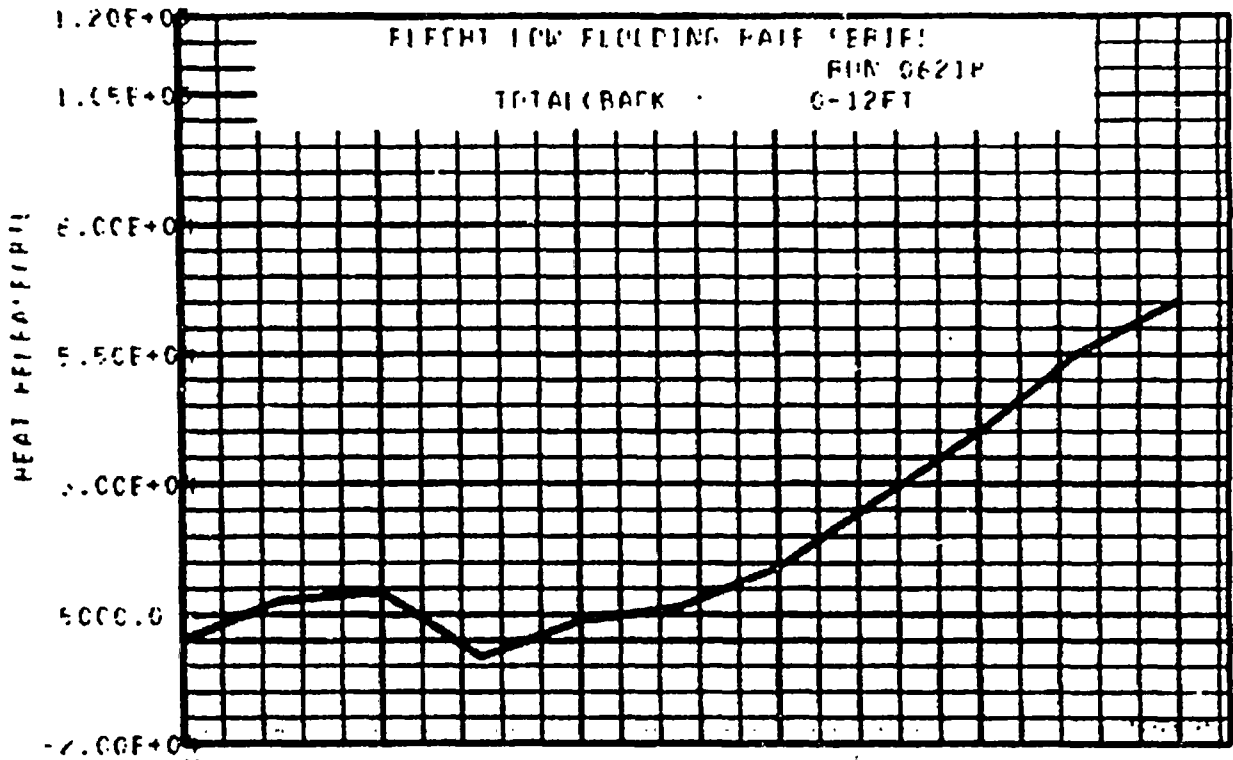












FLECHT - LOW FLOODING RATE TEST

SUMMARY SHEET

COSINE AXIAL POWER PROFILE

RUN NO. 06357

DATE: 6/13/75

A. RUN CONDITIONS

Upper Plenum Pressure, psia	<u>40</u>	
Initial Clad Temperature (6 Ft)°F At Flood	<u>1,000</u>	Rod T/C <u>4H6</u>
Rod Peak Power, kw/ft	<u>0.74</u>	
Flooding Rate, in/sec	<u>1.5</u>	
	<u>----</u>	
	<u>----</u>	
Coolant Temperature, °F	<u>128</u>	
Bundle Radial Power Profile	<u>Uniform</u>	
Disconnected Rods	<u>7F</u>	

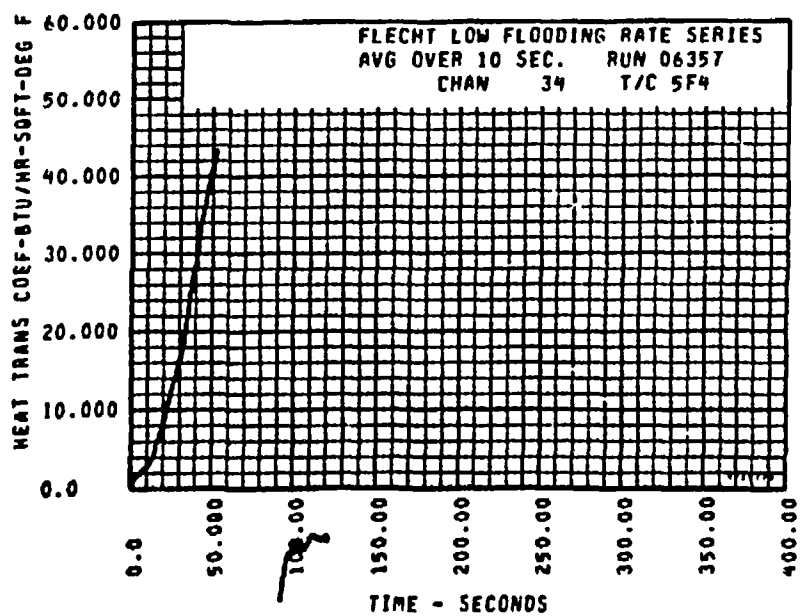
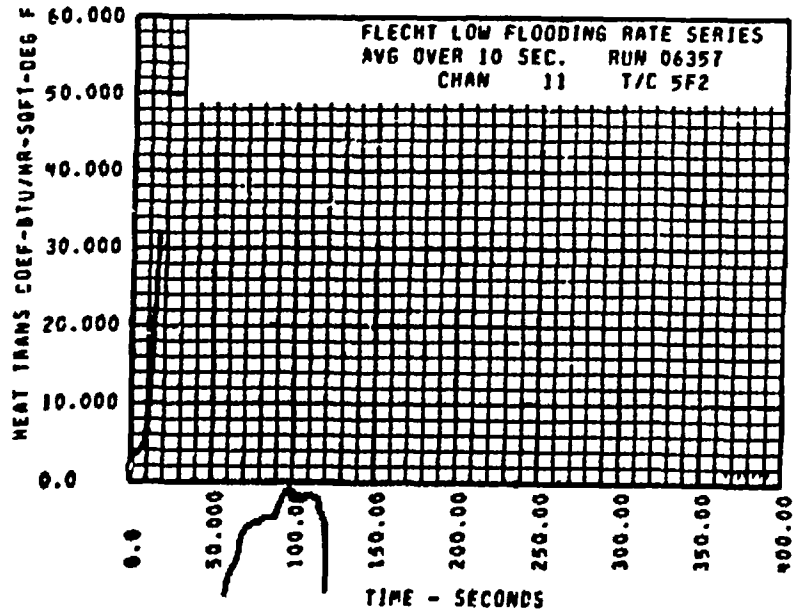
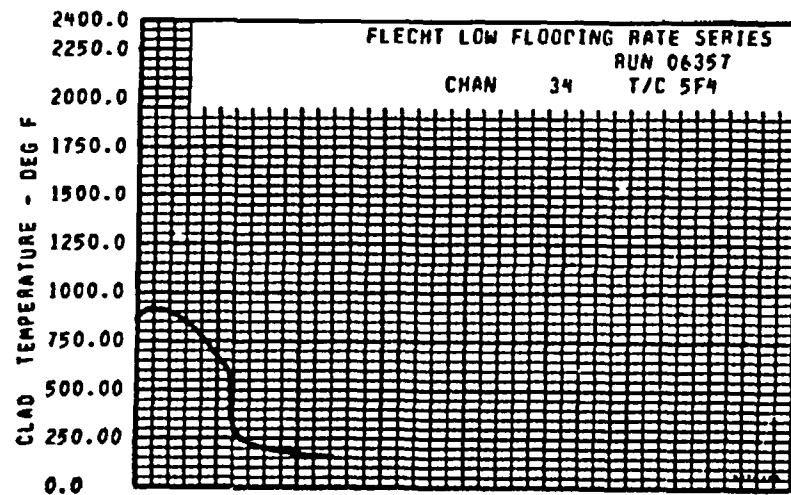
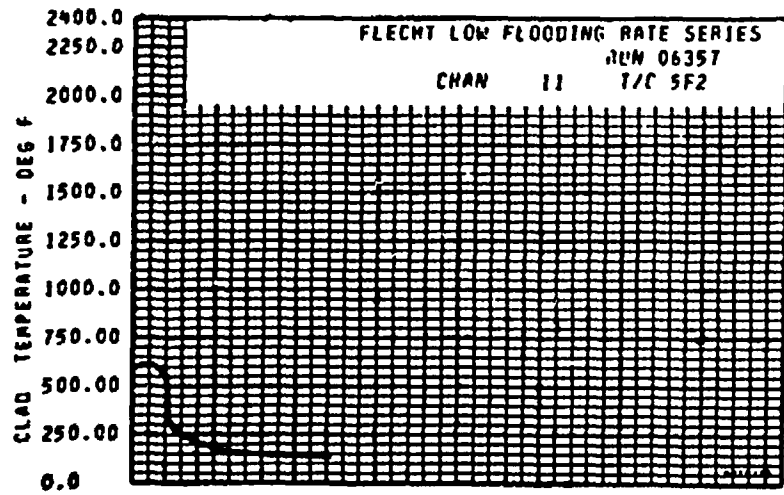
B. INITIAL HOUSING TEMPERATURE

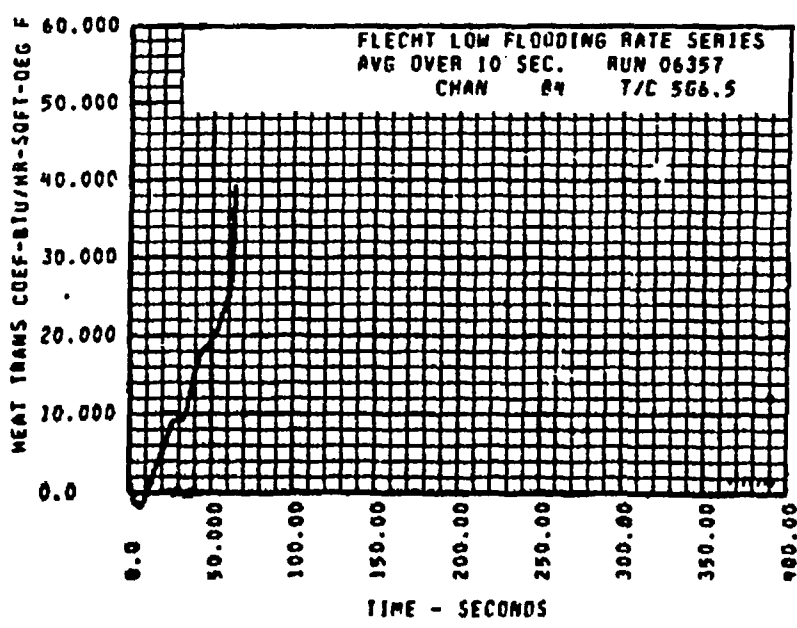
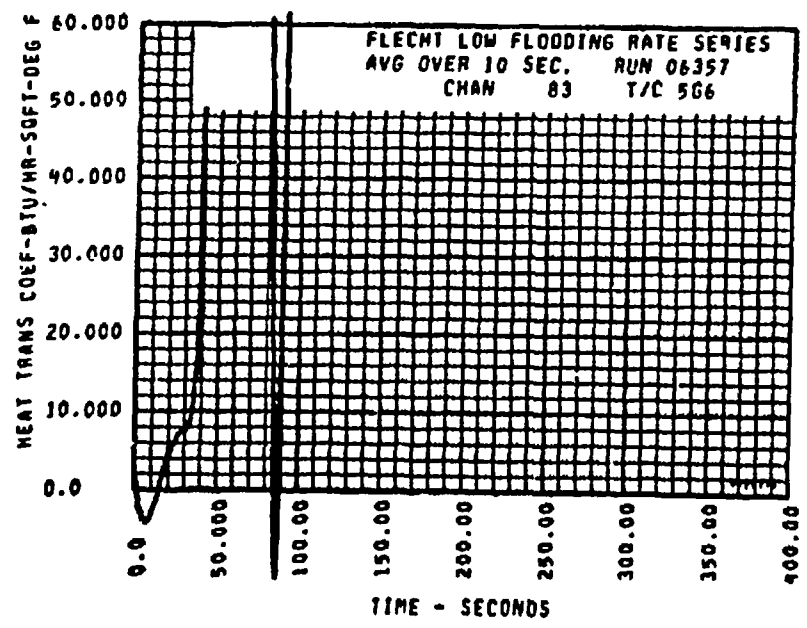
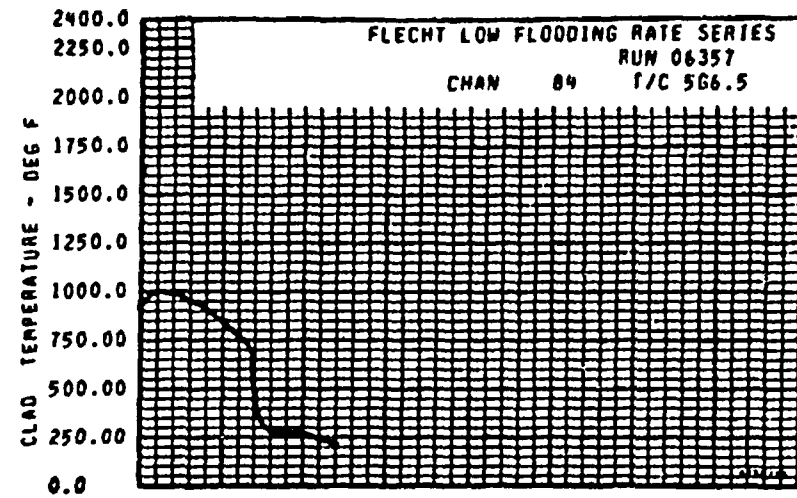
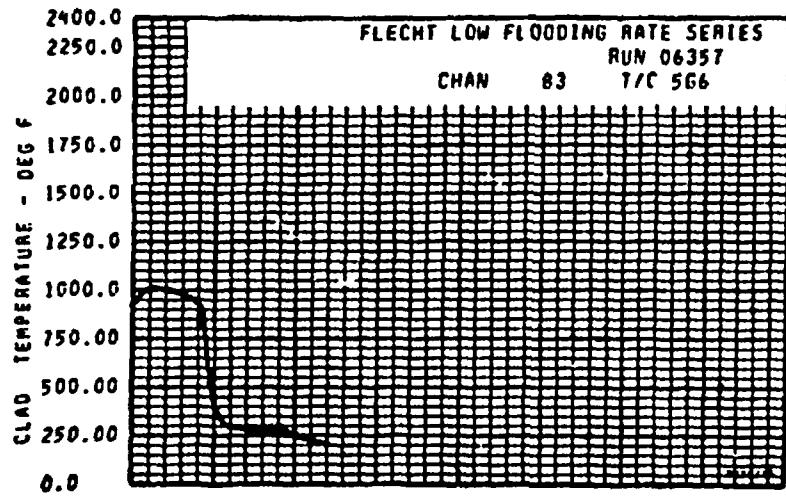
Back Side Elevation, Ft.	Temperature, °F
0	<u>255</u>
2	<u>383</u>
4	<u>479</u>
5.5	<u>549</u>
6	<u>551</u>
6.5	<u>450</u>
7	<u>442</u>
7.5	<u>453</u>
8	<u>505</u>
10	<u>383</u>
12	<u>274</u>
Average	<u>429</u>
Lower Plenum	<u>122</u>
Upper Plenum	<u>288</u>

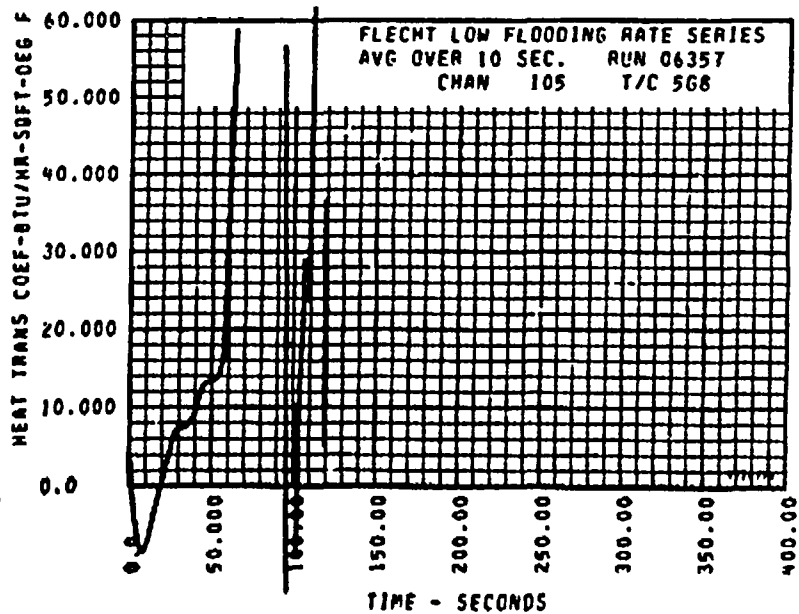
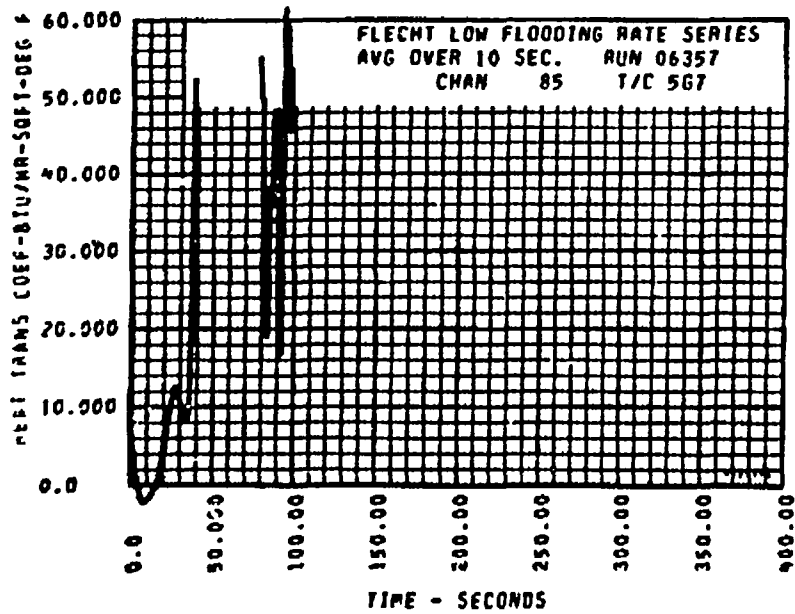
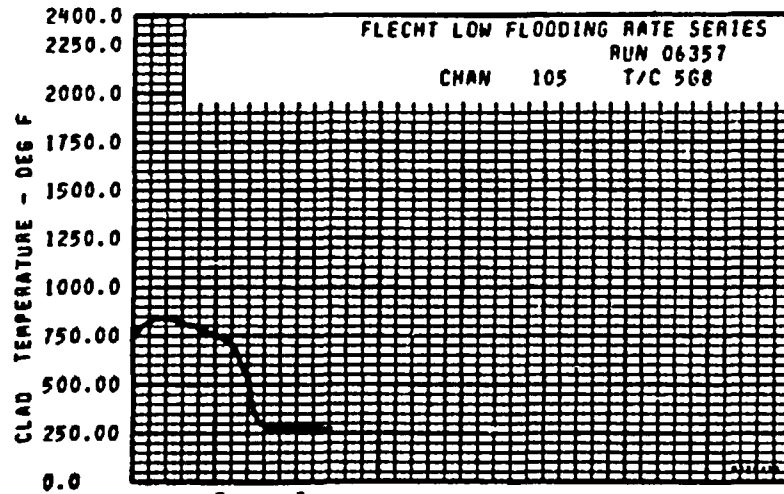
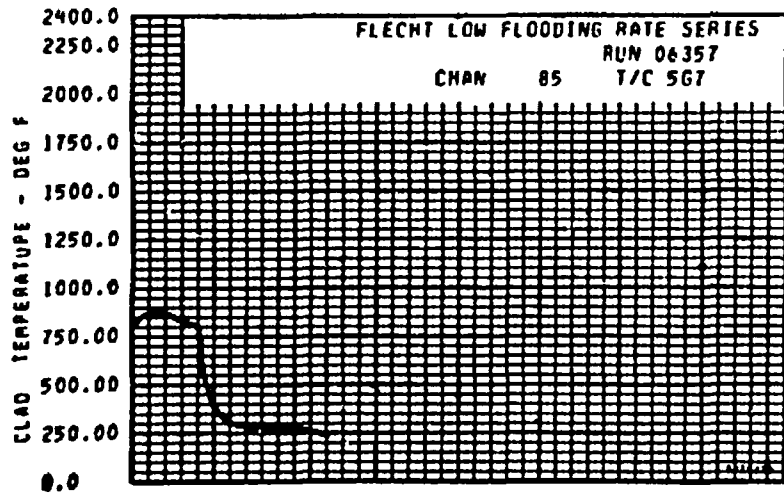
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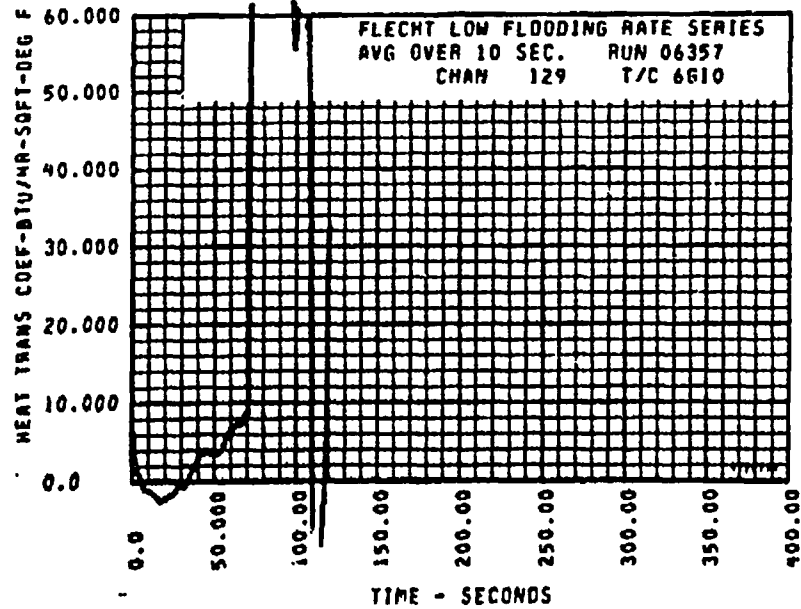
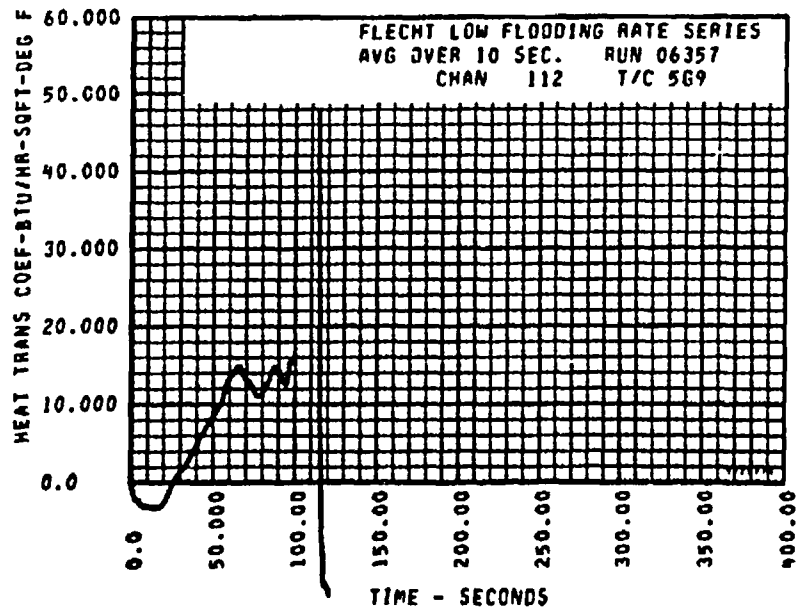
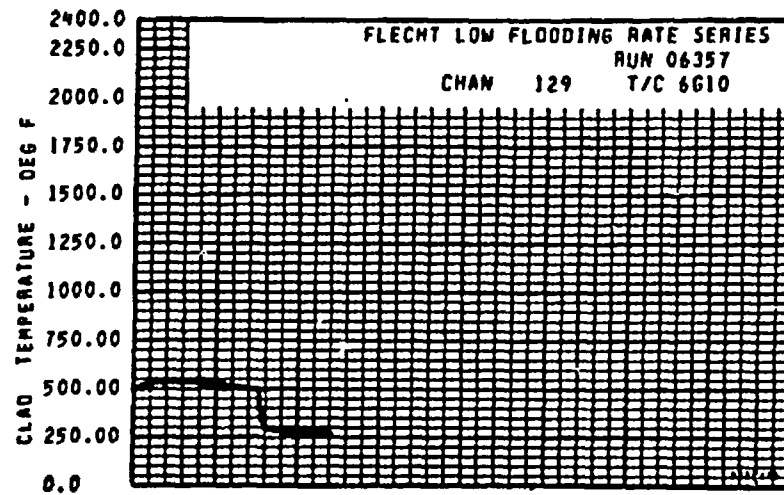
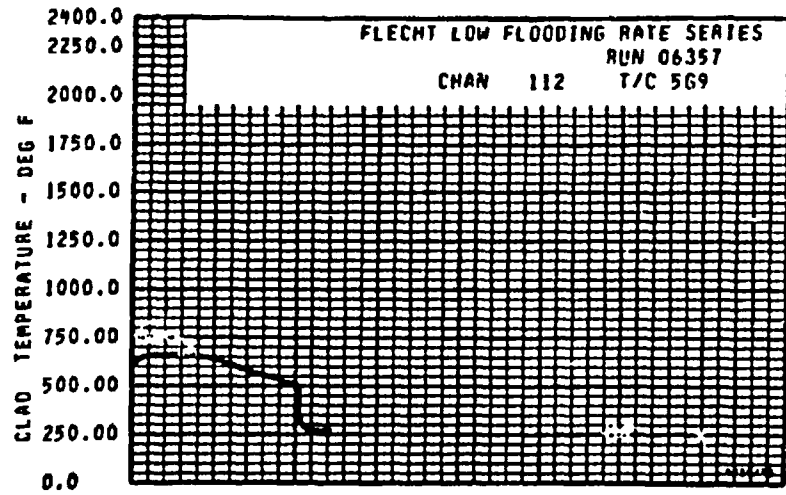
FLECHT-L7M FLOODING RATE ROD THERMOCOUPLE DATA

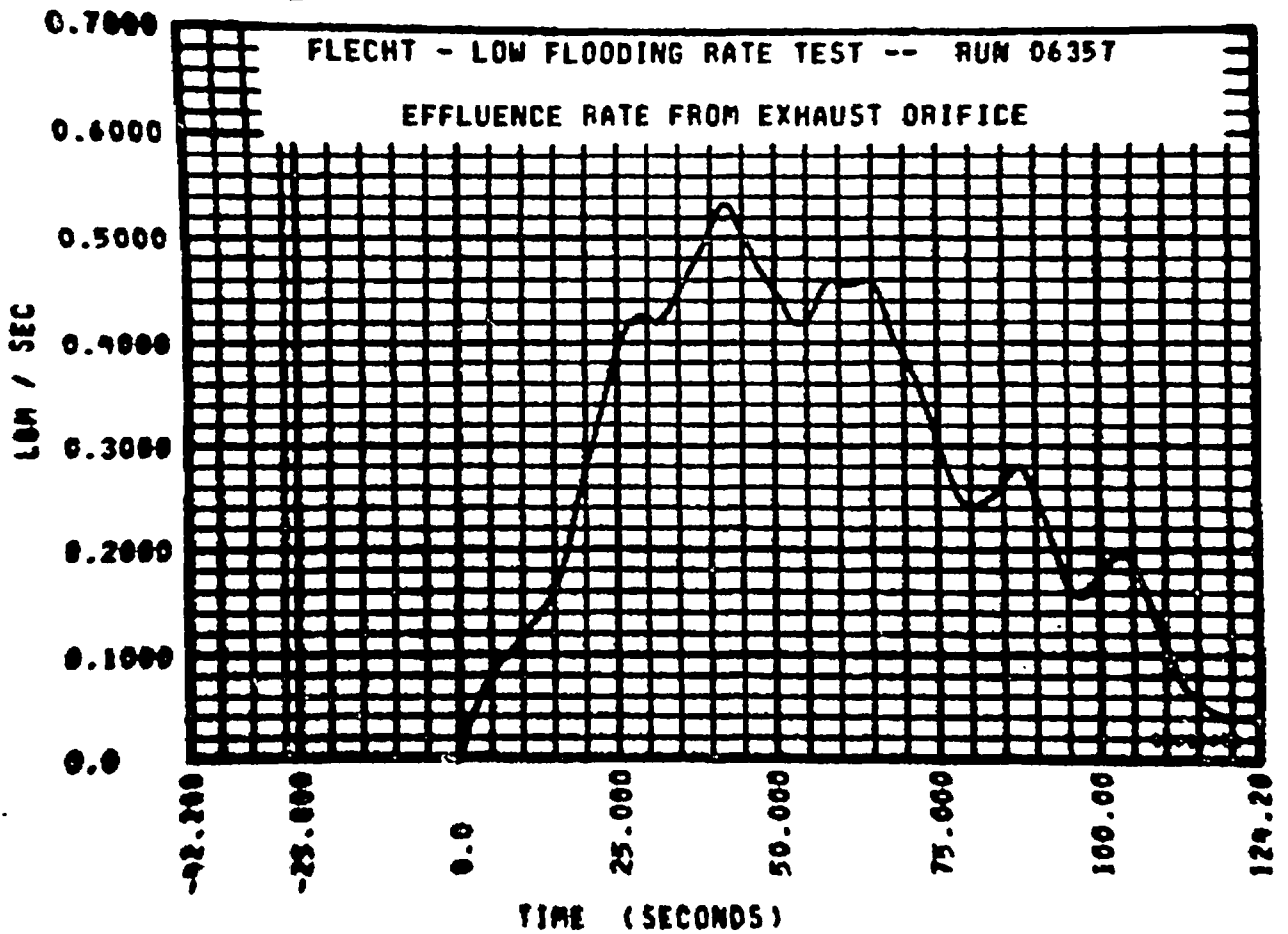
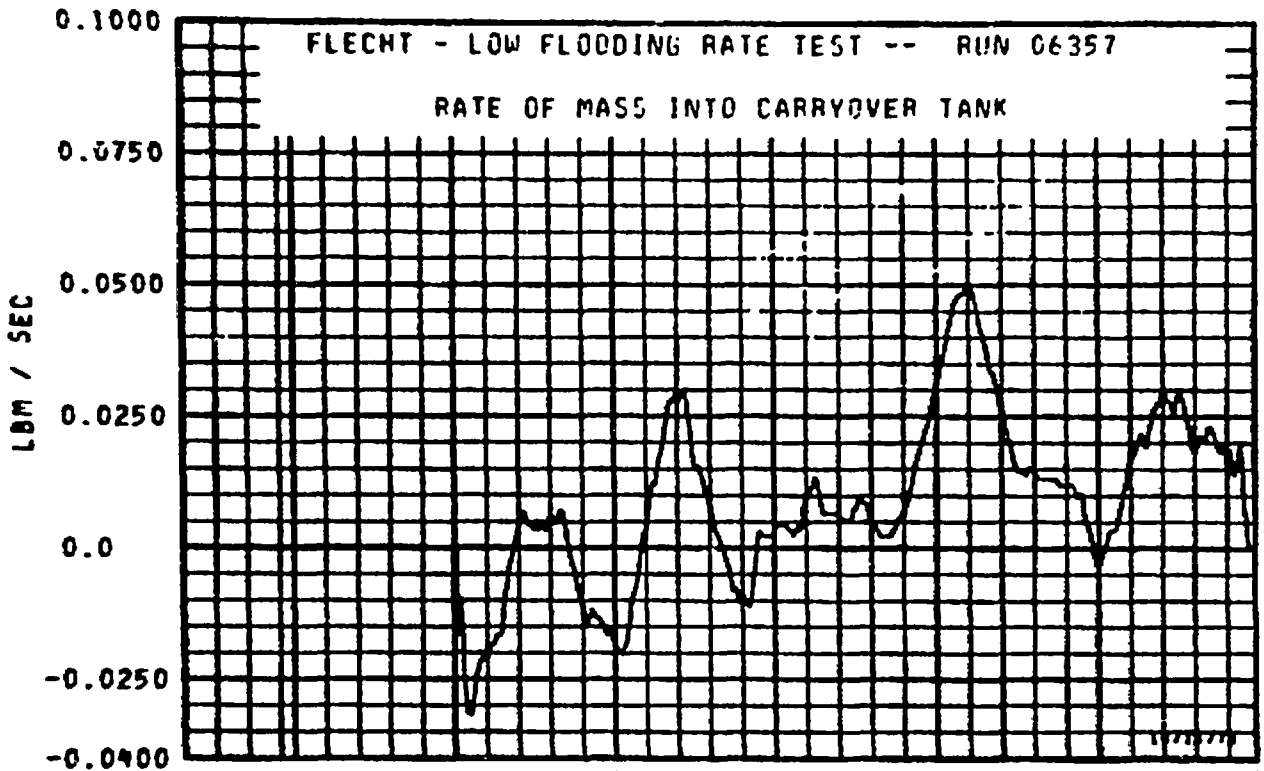
ROD/ELEV	TEMPERATURE AT FLOW ON (DEG.F)	TIME OF FLOW ON (SEC.)	INITIAL TEMPERATURE AT FLOOD (DEG.F)	RUN NUMBER MAXIMUM TEMPERATURE (DEG.F)	DEIST TEMPERATURE RISE (DEG.F)	TURNDOWN TIME (SEC.)	QUENCH TEMPERATURE (DEG.F)	QUENCH TIME (SEC.)
4M0.5	258.	-35.2	423.	417.	16.	4.4	435.	5.0
4M1	249.	-37.2	409.	467.	14.	6.2	454.	9.8
4M1.5	327.	-35.2	470.	52.	24.	9.5	475.	14.4
4M2	373.	-37.2	434.	429.	23.	7.7	526.	25.4
4M4	432.	-37.2	473.	32.	49.	7.5	569.	57.2
4M6	473.	-37.2	1302.	1372.	72.	4.4	771.	63.5
606	129.	-34.2	814.	497.	74.	11.3	750.	54.3
806.5	134.	-34.2	719.	470.	40.	11.4	781.	62.5
807	143.	-34.2	770.	477.	31.	12.4	625.	61.3
809	145.	-34.2	613.	795.	62.	10.5	514.	30.3
809	170.	-37.2	604.	556.	47.	20.1	553.	67.0
8010	179.	-37.2	504.	467.	44.	24.2	454.	111.6
8011	173.	-37.2	424.	417.	23.	24.4	452.	39.4
8012	173.	-37.2	424.	417.	23.	24.4	452.	39.4
SF0	210.	-37.2	207.	2-7.	3.	0.7	266.	4.2
SF0.5	217.	-37.2	423.	434.	11.	1.7	432.	4.0
SF1	211.	-37.2	407.	410.	14.	1.1	452.	4.0
SF1.5	212.	-37.2	407.	410.	14.	1.1	452.	4.0
SF2	212.	-37.2	407.	410.	14.	1.1	452.	4.0
SF3	217.	-37.2	747.	773.	25.	4.7	820.	43.3
SF4	210.	-37.2	407.	410.	14.	1.1	452.	4.0
SF5	210.	-37.2	422.	1307.	43.	10.3	970.	22.6
5G5	405.	-37.2	416.	1354.	43.	11.4	675.	47.3
5G6.5	412.	-37.2	313.	564.	71.	17.4	674.	63.3
5G7	401.	-37.2	741.	471.	73.	11.4	764.	61.1
5G4	400.	-37.2	784.	431.	91.	15.5	490.	71.3
5G9	398.	-37.2	401.	413.	62.	24.4	495.	102.0
5G11	379.	-37.2	437.	457.	27.	17.1	431.	52.6
5G12	374.	-37.2	437.	432.	25.	12.4	494.	42.8
1G6	400.	-37.2	407.	484.	42.	4.5	611.	50.2
1G6	413.	-37.2	373.	1314.	55.	4.0	664.	30.4
1G17	410.	-37.2	324.	410.	31.	10.4	345.	162.6
3M2	471.	-37.2	617.	446.	23.	4.3	557.	21.1
3M6	434.	-37.2	700.	1237.	71.	10.2	780.	64.7
3M4	406.	-37.2	414.	447.	47.	11.4	499.	62.2
3M10	414.	-37.2	524.	444.	41.	14.4	477.	37.6
4G2	470.	-37.2	604.	434.	24.	7.4	554.	21.3
4G4	470.	-37.2	604.	434.	24.	7.4	554.	21.3
4G6	471.	-37.2	604.	434.	24.	7.4	554.	21.3
4G8	471.	-37.2	604.	434.	24.	7.4	554.	21.3
4G10	471.	-37.2	604.	434.	24.	7.4	554.	21.3

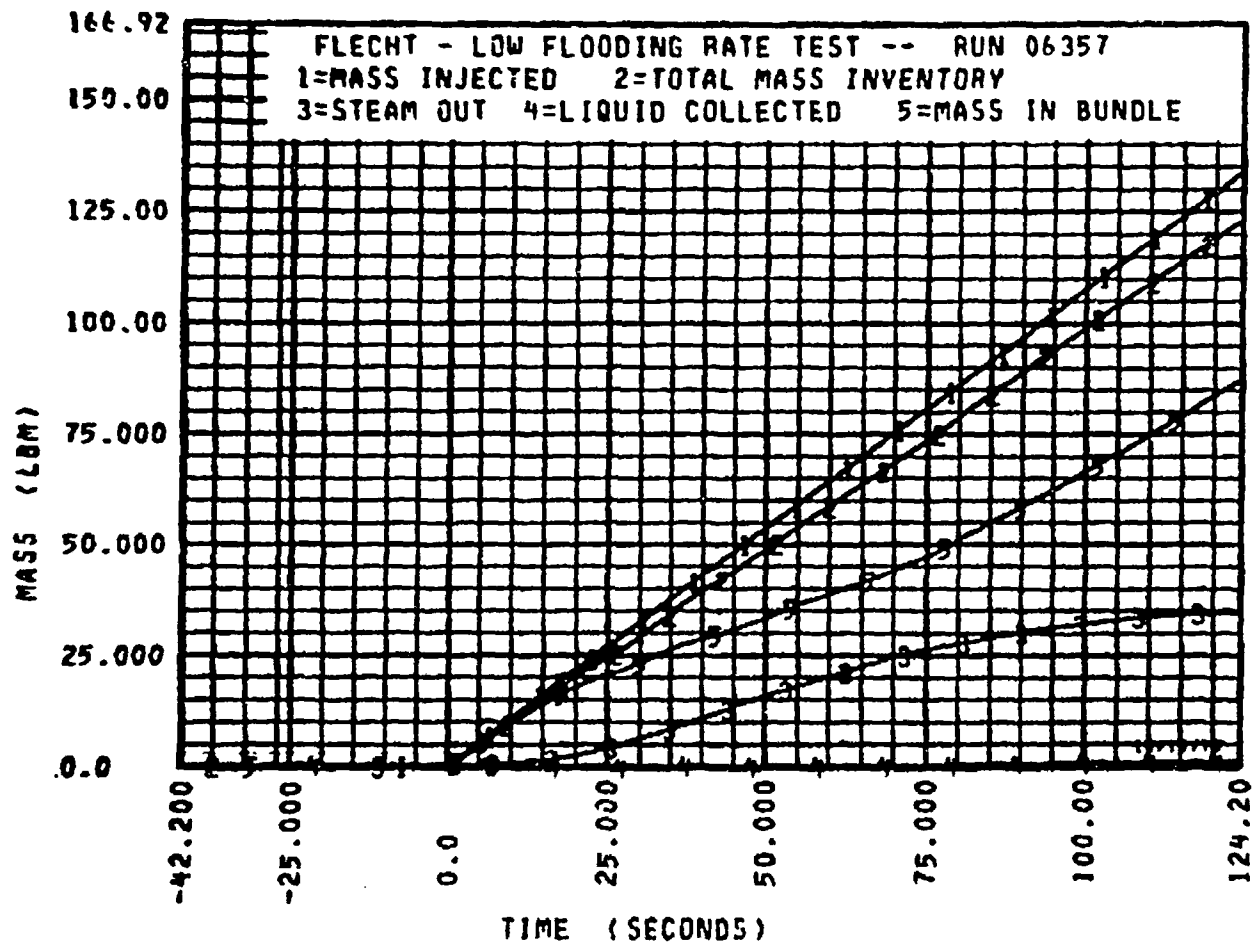


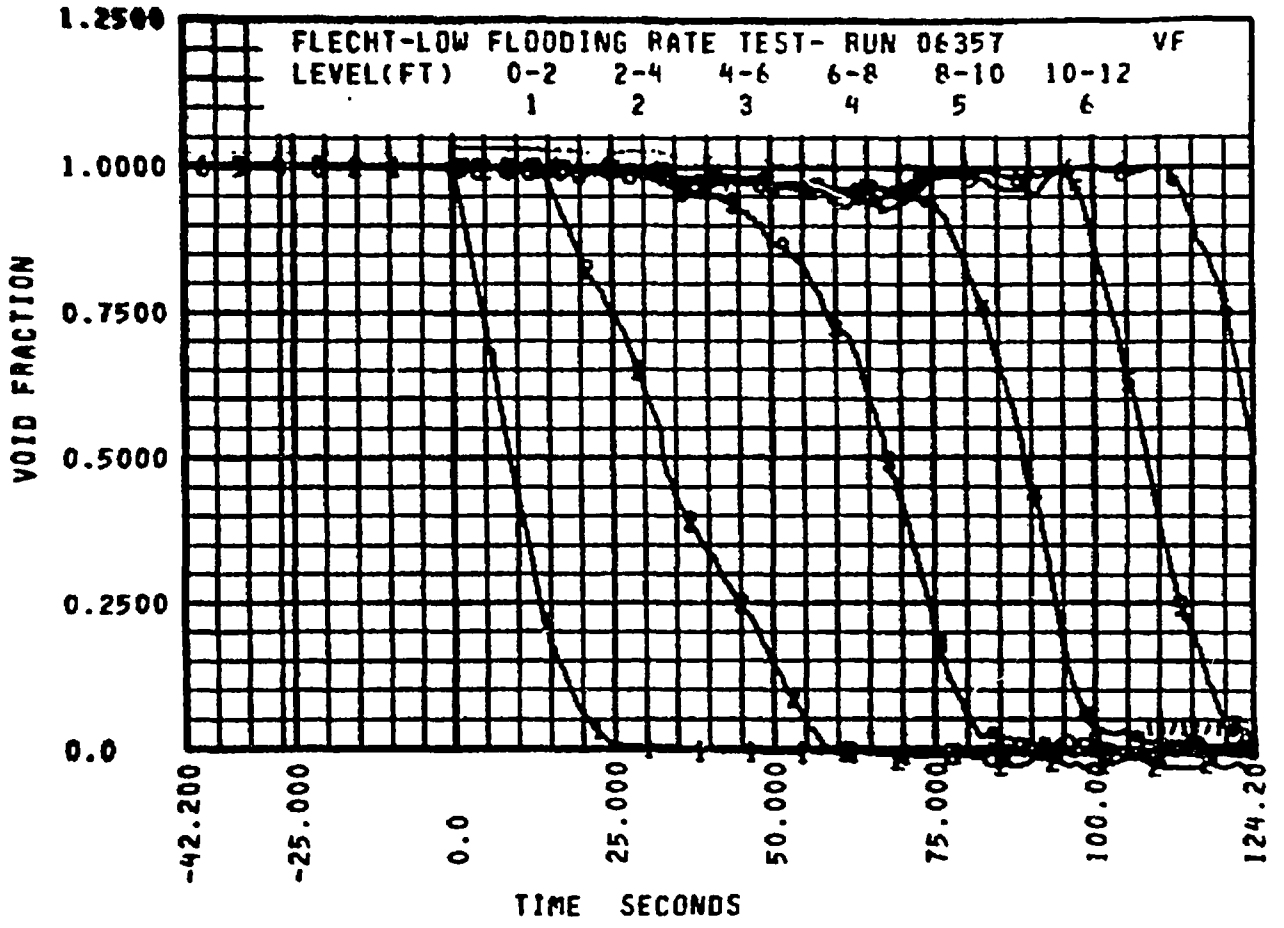
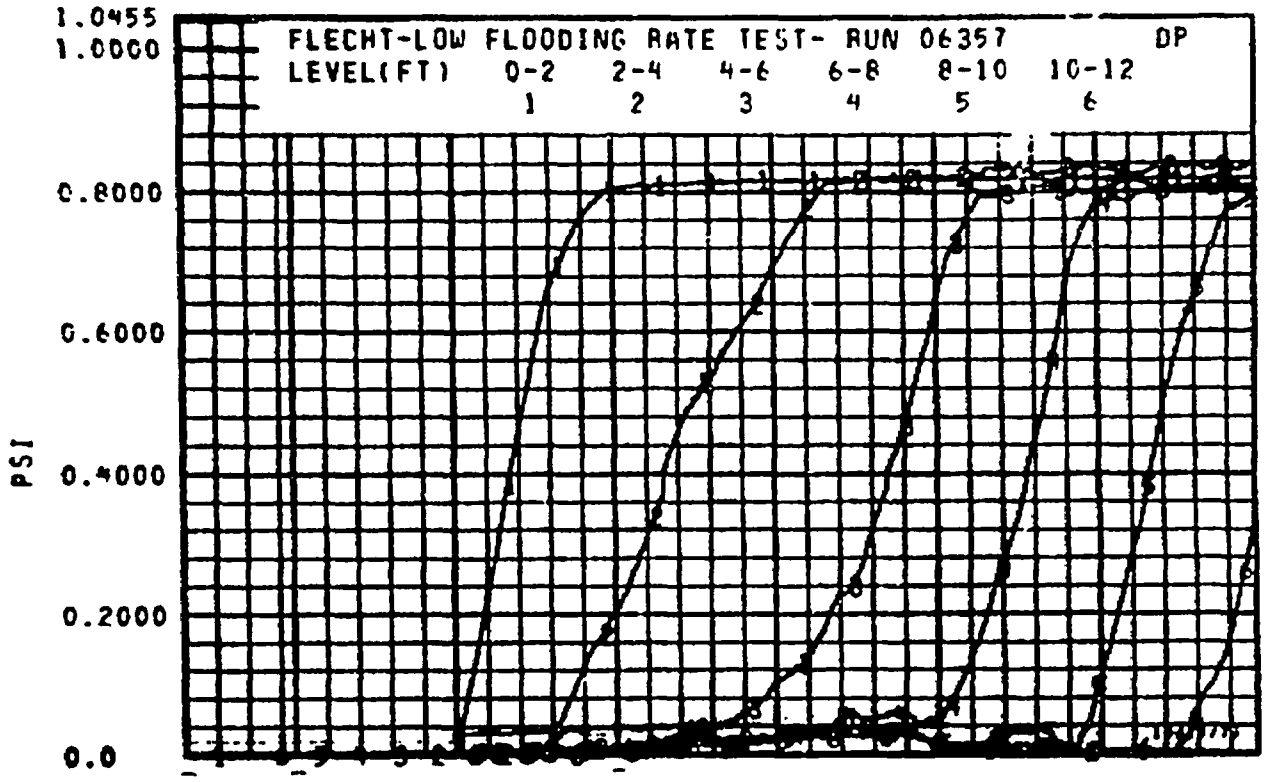


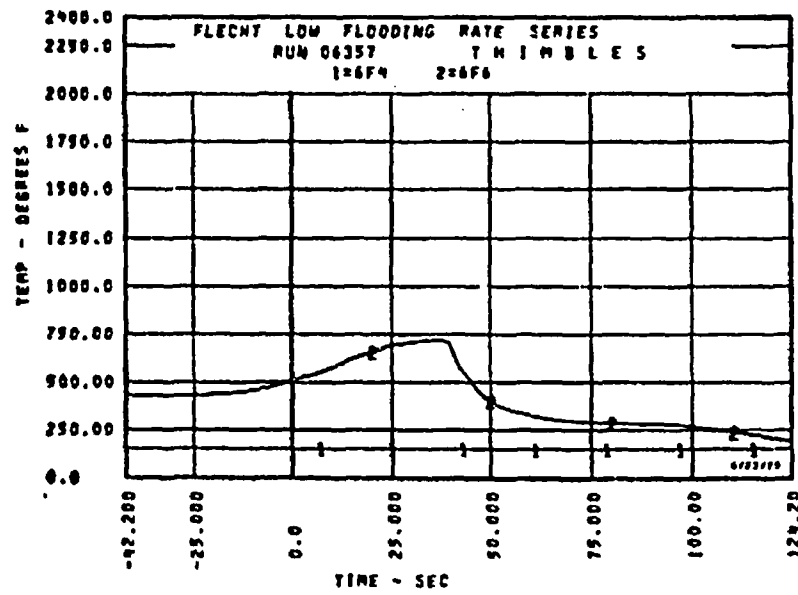
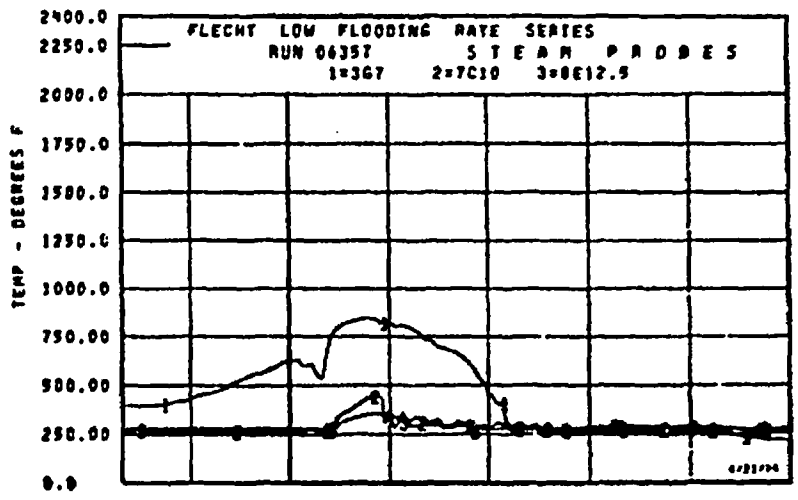


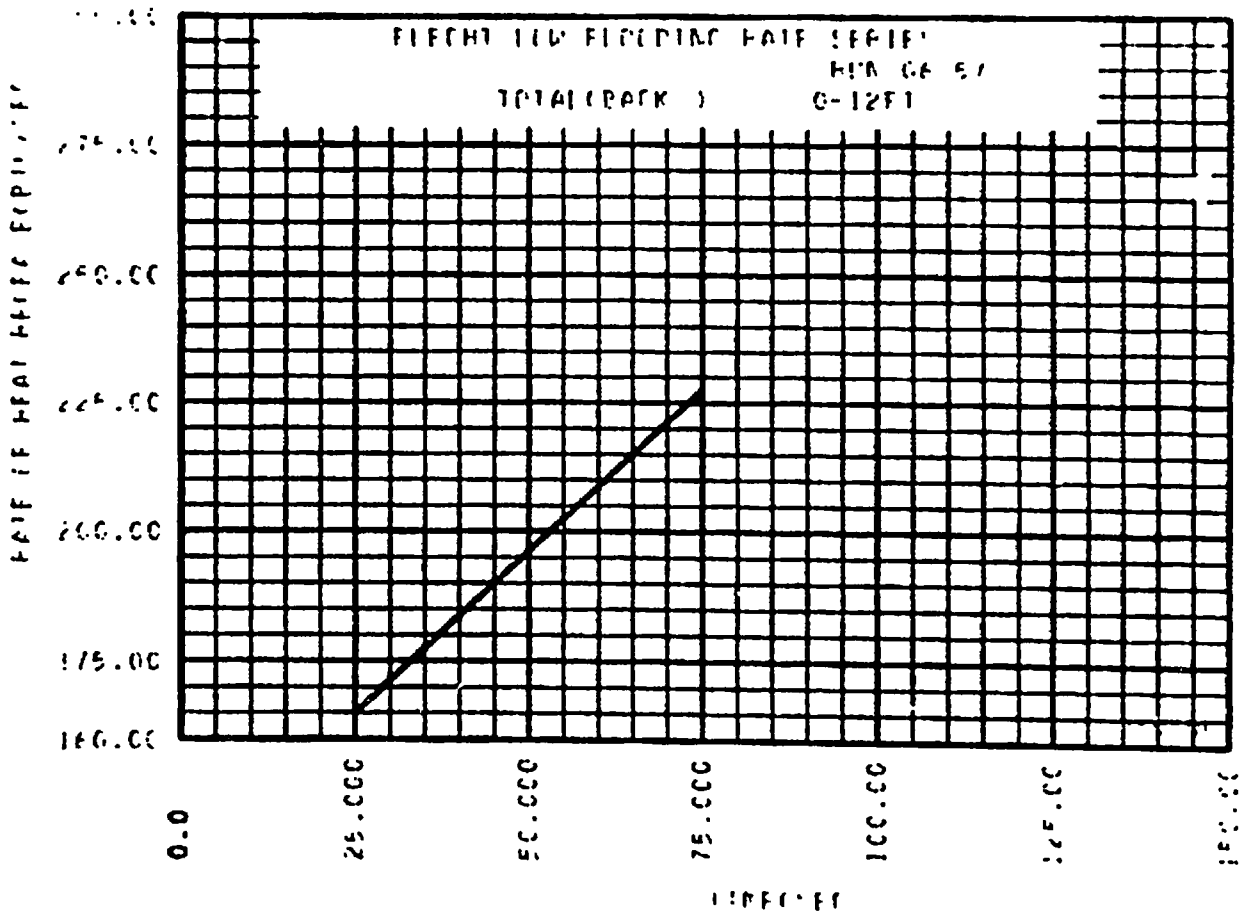
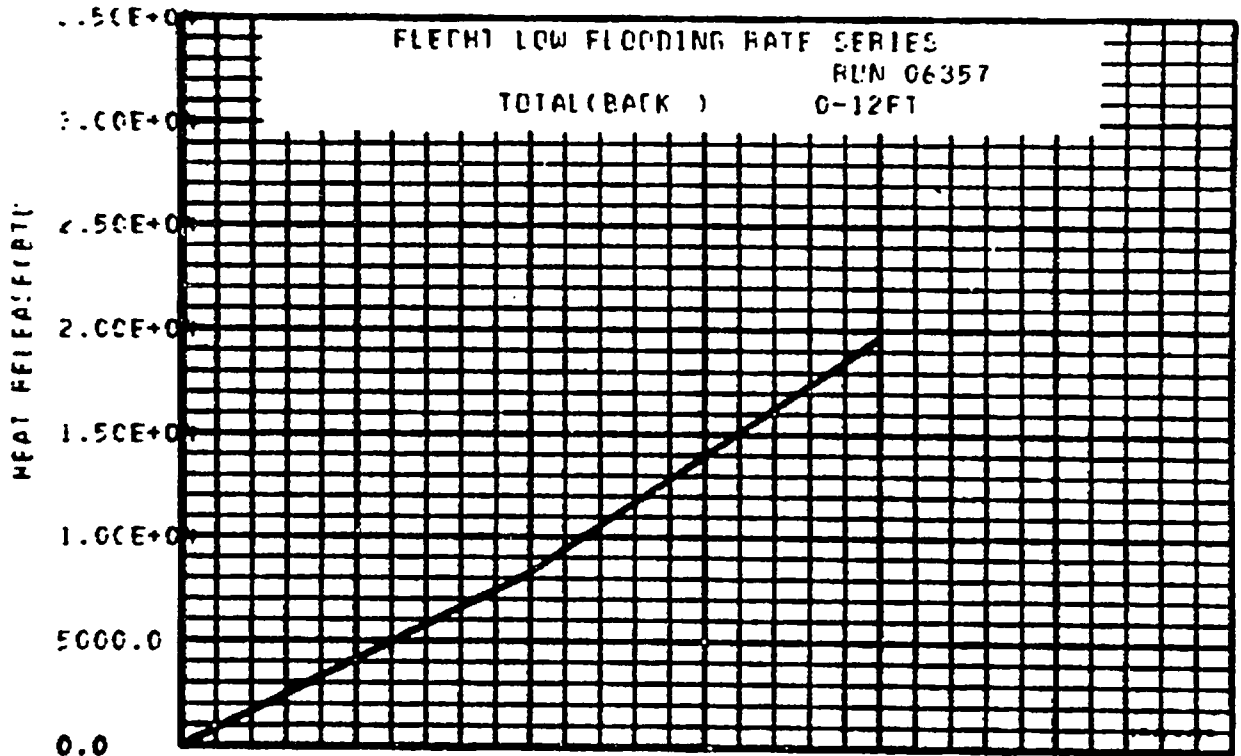












FLECHT - LOW FLOODING RATE TEST

SUMMARY SHEET

COSINE AXIAL POWER PROFILE

RUN NO. 06458

DATE: 6/17/75

A. RUN CONDITIONS

Upper Plenum Pressure, psia	<u>40</u>	
Initial Clad Temperature (6 Ft)°F At Flood	<u>1,601</u>	Rod T/C <u>4H6</u>
Rod Peak Power, kw/ft	<u>0.74</u>	
Flooding Rate, in/sec	<u>1.5</u>	
	<u>----</u>	
	<u>----</u>	
Coolant Temperature, °F	<u>126</u>	
Bundle Radial Power Profile	<u>Uniform</u>	
Disconnected Rods	<u>7F</u>	

B. INITIAL HOUSING TEMPERATURE

Back Side Elevation, Ft.	Temperature, °F
0	<u>253</u>
2	<u>434</u>
4	<u>562</u>
5.5	<u>628</u>
6	<u>644</u>
6.5	<u>527</u>
7	<u>523</u>
7.5	<u>525</u>
8	<u>550</u>
10	<u>427</u>
12	<u>271</u>
Average	<u>486</u>
Lower Plenum	<u>126</u>
Upper Plenum	<u>347</u>

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FLECHT-LOI FLOODING RATE AND THERMOCOUPLE DATA

R377EL7V	TEMPERATURE OF FLOODED ZON (DEG.F)	TYPE OF PORE IN (INCH)	GUN NUMBER 06651			TURNAROUND TIME (SEC.)	QUENCH TEMPERATURE (DEG.F)	QUENCH TIME (SEC.)
			INITIAL TEMPERATURE BY FLOOD (DEG.F)	MAXIMUM TEMPERATURE (DEG.F)	TEMPERATURE RISE (DEG.F)			
443.5	24.0	-37.0	426.	430.	4.	2.5	593.	8.8
441	16.0	-37.0	470.	477.	7.	0.2	550.	17.2
441.5	17.0	-37.0	473.	499.	26.	2.3	650.	70.2
442	27.0	-37.0	413.	413.	0.	0.5	635.	34.5
444	4.0	-37.0	1303.	1346.	43.	1.4	691.	77.8
446	13.0	-44.0	1011.	1013.	2.	2.5	933.	91.7
821	137.0	-37.0	1301.	1400.	99.	4.7	419.	95.0
824.5	7.0	-37.0	11.1.	1175.	1164.	4.6	429.	112.9
827	27.0	-37.0	1241.	1242.	1.	1.5	691.	109.9
828	27.0	-37.0	1119.	1131.	12.	1.9	950.	73.9
829	20.0	-47.0	980.	980.	0.	1.7	622.	123.2
8010	24.0	-37.0	747.	747.	0.	2.0	680.	121.0
8011	27.0	-37.0	425.	430.	5.	2.5	650.	78.1
8012	147.0	-37.0	2.2.	203.	199.	0.2	203.	1.4
5F0	21.0	-47.0	203.	240.	37.	0.3	279.	0.2
5F0.5	21.0	-47.0	626.	627.	1.	0.2	632.	11.0
5F1	27.0	-37.0	636.	638.	2.	1.2	931.	17.0
5F1.5	0	0	0	0	0	0	0	0
5F2	34.0	-37.0	477.	481.	4.	1.9	633.	31.0
5F3	14.0	-37.0	1141.	1133.	8.	1.3	635.	55.5
5F4	12.0	-37.0	1373.	1390.	17.	0.6	659.	70.8
5F6	11.0	-44.0	1462.	1480.	18.	3.6	1152.	66.1
5G6	4.0	-37.0	1500.	1540.	40.	4.2	1146.	64.3
5G6.5	19.0	-37.0	1492.	1514.	22.	4.4	1026.	74.3
5G7	13.0	-37.0	1389.	1330.	60.	0.0	1059.	71.1
5G8	20.0	-37.0	1161.	1204.	43.	0.4	613.	91.3
5G9	25.0	-37.0	940.	981.	41.	0.2	622.	118.7
5G11	27.0	-37.0	623.	627.	4.	1.0	945.	80.6
5G12	27.0	-37.0	900.	902.	2.	1.0	933.	97.9
1G4	55.0	-37.0	1293.	1301.	8.	1.2	669.	69.4
1G6	50.0	-37.0	1400.	1494.	94.	1.0	651.	112.5
1G10	30.0	-37.0	754.	757.	3.	0.4	409.	96.3
3H2	40.0	-37.0	917.	925.	8.	1.0	644.	30.1
3H6	50.0	-37.0	1064.	1081.	17.	3.0	895.	100.2
3H8	40.0	-37.0	1238.	1272.	34.	3.0	953.	45.1
3H10	27.0	-37.0	797.	810.	13.	26.2	673.	165.4
4G2	40.0	-37.0	922.	928.	6.	1.0	835.	31.7
4G4	33.0	-37.0	1021.	1031.	10.	1.0	640.	77.3
4G6	31.0	-37.0	1021.	1031.	10.	1.0	1047.	83.3
4G8	31.0	-37.0	1021.	1031.	10.	1.0	743.	93.1
4G10	27.0	-37.0	801.	807.	6.	1.2	682.	85.8