DLCS-2250102

MASTER

DUQUESNE LIGHT COMPANY
SHIPPINGPORT ATOMIC POWER STATION

TEST RESULTS

DL-S-225
T-612118A

REACTIVITY LIFETIME

SECTION I

SECOND PERFORMANCE

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TEST RESULTS

DL-S-225
T-612118A

REACTIVITY LIFETIME

SECTION I

SECOND PERFORMANCE

Purpose

To determine the performance characteristics reliability, stability and lifetime variations of the PWR Plant and core during steady state conditions at approximately 60 MW net electrical output.

Conclusions

The PWR Plant operated for 758 EFPD during Section I of this test. Section III, the results of which will be issued at a later date, pertain to the remaining hours of the 1000 hour run. Approximately 60 MW net was maintained with no safety shut-downs, one safety insertion and only two flux tilt corrections. The PWR Plant proved to be more stable with four coolant loops in service than it was during the first performance of this test with three loops in service. The PWR Plant operated satisfactorily during the period of this test with no major difficulties.

Description of Test Equipment and Test Procedure

Starting with a xenon free core, the reactor was brought to 57 MW net electrical output with four loops in operation. DL-S-229 was performed while coming up to power. Calorimetrics were performed and nuclear instrumentation gains adjusted on the basis of these calorimetrics. The power level was increased to 60 MW net (reference power level) and this power level was maintained for the duration of Section I.

Section I was lengthened from 500 to 750 hours and Section II was deleted. The purpose of Section II was to initiate a flux tilt in the core and observe the results. Since a flux tilt had developed in the core near the end of the 500 hours of Section I, it was decided to continue Section I for an additional 250 hours. Other changes made in the approved test procedure were:

1. VI-H-2-q: Changed "Total calculated motion" to "Limiting rod asymmetry" and "6 hours" to "12 hours." (9-26-58)
2. VI-E-1 and VI-E-2-a: Changed "original" to "base." (9-26-58)
3. VI-A-4 and VI-C-2-f: Changed "+6" to "+5.5 ± 2." (10-3-58)
4. VI-C-3: Deleted. (10-10-58)

TEST RESULTS DL-S-225

(T-612118A)

REACTIVITY LIFETIME, SECTION I, SECOND PERFORMANCE (cont'd)

5. VI-E-1: Changed to read "Once per shift adjust zero adjustment and correct for drift of the power range linear amplifier for all channels.
(The power level should read 100% for the base calibration current.)
Before adjusting the gain, log the data in VII-A-2-c and d." (10-10-58)
6. VI-E-2-a: Deleted "by more than ± 3 per cent". (10-10-58)
7. VI-E-2-b: Formula changed to read:

$$\begin{array}{lcl} \text{Final base} & & \text{Previous base} \\ \text{calibration} & & \text{calibration} \\ \text{current} & = & \text{current} \\ \text{(Each channel)} & & \text{(Each channel)} \end{array} \times \begin{array}{l} \text{Average of all four (4)} \\ \text{Nuclear Instrumentation} \\ \text{Channels at time of} \\ \text{calorimetrics} \\ \hline \text{Average calorimetric} \\ \text{determination} \end{array}$$

(10-18-58)

Addendums II and III were added to the approved procedure. Addendum II is a revision of Part VI-D, Failure of a Nuclear Instrumentation Channel. Addendum III, Part A is a method of determining power asymmetry through the use of CIC currents used when a nuclear instrumentation channel has failed, but CIC currents are still available. Part B is a method of determining power asymmetry using seed thermocouple instrumentation used when a Nuclear Instrumentation Channel has failed, but CIC currents are not available.

Results

DL-S-225, Section I, commenced at 0800, September 22, 1958 and was completed at 0800 October 24, 1958. The plant operated normally until 1900, October 11, 1958 when a flux tilt in Channel B reached 110%. This flux tilt was suppressed by movement of rods 22 and 61. The second flux tilt on October 14, 1958 at 1400 reached 107.5% in Channel A. This tilt was suppressed by movement of rods 23 and 62.

At the start of this test Channel "D" of the Nuclear Instrumentation would read high after a 100% test current check was performed and would then gradually decrease to its proper reading. This situation developed until channel "D" was indicating erratic power levels continuously. It was then decided to interchange low voltage power supplies between Channels "C" and "D". This was accomplished at 1100 on September 30, 1958. It was determined that the difficulty with Channel "D" was not in the low voltage power supply. The Channel "D" power range amplifier was then removed on October 1, 1958 at 1655 and replaced by a S-2W spare amplifier.

The Channel "D" amplifier was serviced, the deficiencies corrected and on 10/3/58 at 1630, the amplifier was placed back in service.

The two flux tilt corrections and the Channel "D" amplifier trouble were the only major incidents which occurred.

TEST RESULTS DL-S-225

(T-612118A)

REACTIVITY LIFETIME, SECTION I, SECOND PERFORMANCE (cont'd)

A safety insertion occurred on October 1, 1958 at 1910, when the reactor protection test set switch was positioned from the "B" to the operate position. This was apparently the result of the 119% mag amp still being picked up when the switch was repositioned. The power level indication at this time was 100% and since the drop out point of the 119% mag amp is 97%, the mag amp was still picked up. The resulting power reduction from the safety insertion allowed the mag amp to drop out. Plant temperature which had dropped approximately 1/2 F was recovered.

The Group II rods were the controlling group during the entire test. The controlling group started at a height of 42.7 inches after equilibrium xenon was obtained on 9/26/58 and 28.5 days later the controlling group was at a height of 57.7 inches. This is an average withdrawal rate of 0.53 inches per day.

Reference water conditions were maintained during the test with the exception of one low P O₄ concentration in the 1C Boiler.

The general level of activity of most isotopes was higher than during the first performance of DL-S-225.

The amount of chemical treatment required for the 1C Boiler was higher than the other three boilers.

For a detailed analysis of water conditions during the performance of this test, refer to Duquesne Light Company, Shippingport Atomic Power Station, weekly chemistry reports.

The main generator output was held between 68 and 70 MW. The average nuclear power level during the test was approximately 101.5%.

The specific readings are in the appendix in Tables I through VII. Tables I and II present the data taken every hour, Table III presents the data taken every four hours, Table IV presents the data taken every eight hours, Table V presents the core instrumentation data, Table VI presents the FEDAL data and Table VII is the log of events.

The correction factors used in determining the calorimetrics are shown in Figures 1 through 8.

PRIMARY FLOW CORRECTION FACTORS

COOLANT LOOP T_h CORRECTION FACTORS

— IA T_h
 - - - ID T_h

FIGURE 1

CORRECTIONS
 +0.2
 0.1
 0
 -0.1
 -0.2
 -0.3
 -0.4
 -0.5
 -0.6

470 480 500 520

TEMPERATURE (°F)

IA, B, C, AND D COOLANT LOOP FLOWMETERS
 CORRECTION CURVE

IA USE T_c
 IB USE T_h
 IC USE T_h
 ID USE T_c
 MULTIPLY LOOP FLOW BY CORRECTION FACTOR

FIGURE 2

CORRECTION
 FACTOR AT 1800 PSIA
 1.0500
 1.0450
 1.0400
 1.0350
 1.0300
 1.0250
 1.0200
 1.0150
 1.0100

470 480 490 500 510 520 530

TEMPERATURE

PRIMARY FLOW CORRECTION FACTORS

COOLANT LOOP T_h CORRECTION FACTORS

1B T_h

FIGURE 3

1C T_h

FIGURE 4

DUQUESNE LIGHT COMPANY
POWER STATIONS DEPARTMENT
SHIPPINGPORT ATOMIC POWER STATION

REACTIVITY LIFETIME, SECTION I
DL-S-225 (T-612118A)
SECOND PERFORMANCE

TOTAL FEEDWATER FLOW CORRECTION FACTORS

FIGURE 5

TEMPERATURE CORRECTION CURVE FOR
TOTAL FEEDWATER FLOWMETER
MULTIPLY FLOW BY THE CORRECTION
FACTOR TO OBTAIN CORRECTED FLOW
FROM BULKY METER CO.
CURVE PLATE 5-A-2

FIGURE 6

FLOW METER CALIBRATION
MULTIPLY TOTAL FEEDWATER
FLOW INDICATOR BY THE CORRECTION
FACTOR TO OBTAIN CORRECTED FLOW

DL-5-225
SECTION I REACTIVITY
LIFETIME TEST

9-22-58 7-23-58

Table I

DATE	9-22	9-22	9-22	9-22	9-22	9-22	9-22	9-22	9-22	9-22	9-22	9-22	9-22	9-22	9-22	9-22	9-22	9-22	9-22	9-22	9-22	9-22	9-22	9-22	9-22	9-22
TIME	0800	0900	1000	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	0100	0200	0300	0400	0500	0600	0700	0800	0900	
No 1 MAIN GEN. INTEG.	16840.5	16703.5	16766.5	17093.2	17156.8	17220.3	17284.6	17348.1	17411.7	17475.3	17538.9	17602.7	17666.5	17730.3	17794.1	17857.9	17921.7	17985.5	18049.3	18113.1	18176.9	18240.7	18304.5	18368.3	18432.1	18495.9
TIME	0801	0901	1001	1201	1301	1401	1501	1601	1701	1801	1901	2001	2101	2201	2301	2401	0101	0201	0301	0401	0501	0601	0701	0801	0901	1001
No 1 STA. FMHR. INTEG.	73375	73410	73447	73528	73569	73614	73655	73698	73744	73788	73834	73879	73925	73970	74016	74062	74108	74154	74200	74246	74292	74338	74384	74430	74476	74522
TIME	0802	0902	1002	1202	1302	1402	1502	1602	1702	1802	1902	2002	2102	2202	2302	2402	0102	0202	0302	0402	0502	0602	0702	0802	0902	1002
138 KV FMHR. INTEGRATOR	8405.9	8410.0	8414.3	8422.9	8426.9	8431.6	8435.8	8440.1	8444.9	8449.7	8453.0	8457.0	8461.8	8465.9	8470.2	8474.8	8479.1	8483.3	8487.8	8492.0	8496.1	8500.5	8504.9	8509.1	8513.5	8517.9
GEN. OUTRT FROM INTEG-MW	63.0	63.0	63.0	63.6	64.5	64.3	63.5	63.6	63.6	66.0	66.9	66.3	66.9	65.9	65.8	65.9	65.7	65.3	64.9	65.0	64.7	66.9	66.6	66.6	66.6	66.6
NET. STA. OUTRT FROM INTEG-MW	55.4	55.0	55.0	55.5	55.3	56.0	54.9	55.2	55.0	57.5	58.3	57.0	57.7	57.5	56.7	57.3	57.9	58.5	58.7	58.9	56.1	57.9	58.0	58.0	58.0	58.0
TIME	0803	0903	1003	1203	1303	1403	1503	1603	1703	1803	1903	2003	2103	2203	2303	2403	0103	0203	0303	0403	0503	0603	0703	0803	0903	1003
MAIN GEN. INDICATOR-MW	64.0	64.0	64.0	64.5	65.0	65.2	65.1	64.5	64.5	65.0	67.0	67.5	67.5	67.0	67.0	67.0	67.0	67.5	66.0	66.0	66.0	66.0	68.0	67.5	67.5	67.5
NET STA. OUTPUT INDICATOR-MW	57.2	57.2	57.5	57.2	57.5	57.7	57.7	57.1	57.3	57.8	60.1	60.5	60.6	59.9	59.9	60.0	59.7	60.0	58.7	58.9	58.9	58.2	60.6	61.0	61.0	61.0
LINEAR LEVEL POWER LEVEL	TIME	0803	0903	1003	1203	1303	1403	1503	1603	1703	1803	1903	2003	2103	2203	2303	2403	0103	0203	0303	0403	0503	0603	0703	0803	0903
CHANNEL A %	95.5	95.0	95.0	95.0	96.0	96.2	96.25	97.5	97.0	98.0	101.5	102.5	102.5	101.0	101.5	102.0	100.0	102.0	98.5	98.5	98.5	98.5	102.0	102.0	102.0	102.0
" " uAMPS	26.3	26.4	26.6	26.8	27.1	27.0	27.0	27.0	27.5	27.5	29.0	29.0	29.0	28.5	28.0	29.0	28.0	28.5	27.6	27.7	27.7	27.6	28.5	28.6	28.6	28.6
CHANNEL B %	95.0	94.0	95.0	95.0	95.0	97.5	96.0	99.0	97.5	98.5	102.5	103.0	103.0	101.5	101.5	103.0	100.5	102.5	99.0	99.5	100.0	100.0	103.5	104.0	104.0	104.0
" " uAMPS	38.0	38.0	38.0	38.0	38.0	38.1	38.2	38.5	38.4	38.4	40.0	40.5	41.8	40.0	40.0	40.0	40.0	40.0	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1
CHANNEL C %	96.0	97.5	95.0	96.0	95.5	97.5	97.5	98.0	97.5	98.0	101.5	102.0	102.0	100.5	101.0	101.5	100.0	101.0	97.0	98.0	98.0	98.0	101.0	102.0	102.0	102.0
" " uAMPS	25.1	25.4	25.3	25.5	25.5	25.6	25.9	26.1	25.8	26.4	26.4	27.4	27.2	26.9	26.9	27.0	26.7	27.1	26.4	26.4	26.4	26.4	26.9	27.2	27.2	27.2
CHANNEL D %	96.0	96.0	94.5	95.0	95.0	96.0	100.0	99.5	99.0	100.0	103.5	104.0	106.5	104.5	105.0	105.5	103.0	102.0	99.0	98.0	102.0	98.5	101.0	101.5	101.5	101.5
" " uAMPS	5.4	5.4	5.32	5.40	5.38	5.41	5.45	5.42	5.42	5.44	5.70	5.78	5.72	5.60	5.62	5.73	5.61	5.59	5.5	5.5	5.53	5.51	5.70	5.71	5.71	5.71
FLUX TIME INTEST.	1785.3	1786.3	1787.3	1789.3	1790.3	1791.0	1791.9	1792.8	1792.7	1794.7	1795.6	1796.6	1797.6	1798.6	1799.6	1800.6	1801.6	1802.6	1803.5	1804.5	1805.4	1806.4	1807.4	1808.4	1809.4	1810.4
TOTAL EFPH	1.0	1.0	1.0	1.0	0.9	0.9	0.9	0.9	1.0	0.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.9	1.0	0.9	1.0	1.0	1.0	1.0	1.0
AVG. % P. L.	81.13	95.63	94.9	95.25	95.38	96.81	97.43	98.5	97.25	98.6	102.35	102.9	103.5	101.9	102.35	102.00	102.89	101.78	98.63	98.50	99.63	98.75	101.88	102.35	102.35	102.35

INSET NO. **2**

REACTIVITY LIFE TIME TEST

9-23-58 9-29-58

Table I (cont'd)

[illegible]

Table I (cont'd)

50

DL

Saps

Test Group

9-25-58 70

Date _____

Time

No. 1 Main Gen. Intgr

Time

No. 1 Sta Tmr Intgr

Time

138KV Tfrmr Inter.

Gen output from Integr (MW)

Net Sta output from Inter (MW)

Time

Main Gen Indic (MW)

Net Sta Output Ind. (MW)

Linear Power Level

Time

Channel A 90

" " 4 Amps

" " u Amps

Time

Channel B %

" " M Amps

" " u Amps

Time

Channel/C %

" " 4 Amps

" " u Ains

Time

Channel D %

" " 4 Amps

" • 4 Amps

 $T_m \in$

Flux Time Intgr

Total EFPH

Aug of P.L.

DL-5-225 5
SECTION I
REACTIVITY LIFETIME TEST

Table 1 (cont'd)

	9-41-58	9-42-58	9-43-58	9-44-58	9-45-58	9-46-58	9-47-58	9-48-58	9-49-58	9-50-58	9-51-58	9-52-58	9-53-58	9-54-58	9-55-58	9-56-58	9-57-58	9-58-58	9-59-58	9-60-58
DATE	0530	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	0000
TIME	0530	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	0000
NO. I MAIN GEN. INTG.	2312.5	2218.5	2324.2	2330.5	2340.2	2341.2	2351.3	2361.3	2371.3	2381.6	2391.7	2401.9	2411.6	2421.7	2431.9	2441.0	2451.1	2461.1	2471.3	2481.3
TIME	0501	0601	0701	0801	0901	1001	1101	1201	1301	1401	1501	1601	1701	1801	1901	2001	2101	2201	2301	0001
NO. I STA. FM. INTG.	7129.5	7133.5	7151.9	7162.2	7166.8	7154.8	7158.9	7163.2	7167.8	7171.0	7176.2	7180.5	7184.8	7189.1	7193.3	7197.5	7201.7	7205.9	7210.2	7214.2
TIME	0502	0602	0702	0802	0902	1002	1102	1202	1302	1402	1502	1602	1702	1802	1902	2002	2102	2202	2302	0002
B8 KV. FM. INTG.	8809.1	8812.3	8817.8	8822.2	8826.4	8831.0	8835.0	8839.8	8844.1	8848.4	8852.8	8857.1	8861.7	8865.9	8870.4	8874.8	8879.2	8883.5	8888.6	8892.3
GEN. OUTPUT FROM INT.	68.0	67.0	69.0	69.3	69.5	69.3	69.2	69.0	69.0	68.6	68.8	69.0	69.5	69.7	69.6	69.2	69.1	69.1	68.9	69.2
NET STA. OUTPUT FROM INT.	59.5	58.8	60.1	60.6	61.1	60.7	61.2	60.1	60.4	60.7	60.2	60.5	60.6	61.2	60.8	60.6	60.5	60.6	60.2	60.6
TIME	0503	0603	0703	0803	0903	1003	1103	1203	1303	1403	1503	1603	1703	1803	1903	2003	2103	2203	2303	0003
MAIN GEN. IND. MW	71.0	70.8	70.9	70.9	70.8	70.8	70.8	70.9	70.9	70.1	71.0	71.0	71.5	71.5	71.2	71.1	70.9	71.0	70.5	70.5
NET STA. OUTPUT IND	60.2	60.0	60.2	60.3	60.4	60.3	60.0	60.0	60.0	60.1	60.5	60.5	60.7	60.5	60.2	59.9	60.0	60.0	60.3	60.2
LINEAR LEVEL POWER LEVEL	TIME	0503	0603	0703	0803	0903	1003	1103	1203	1303	1403	1503	1603	1703	1803	1903	2003	2103	2203	2303
CHANNEL A %	101.0	100.0	100.1	101.0	102.0	101.0	101.0	102.0	101.0	100.0	102.0	102.0	102.0	102.0	102.0	101.5	101.5	100.0	100.0	100.0
CHANNEL A u. AMPS	26.3	26.3	26.2	26.4	26.5	26.5	26.4	26.5	26.2	26.5	26.5	26.6	26.7	26.7	26.7	26.5	26.5	26.3	26.2	26.2
CHANNEL A u. AMPS	TIME	0504	0604	0704	0804	0904	1004	1104	1204	1304	1404	1504	1604	1704	1804	1904	2004	2104	2204	2304
CHANNEL B %	104.0	103.0	103.0	103.5	105.0	104.0	104.0	103.0	102.1	102.0	102.0	104.0	104.5	104.5	104.0	103.0	103.5	102.5	102.0	103.0
CHANNEL B u. AMPS	50.3	50.2	50.3	50.8	51.0	50.8	50.6	50.2	50.1	50.0	50.8	51.0	50.6	50.6	50.5	50.8	50.5	50.3	50.2	50.8
CHANNEL B u. AMPS	TIME	0504	0604	0704	0804	0904	1004	1104	1204	1304	1405	1504	1605	1705	1805	1905	2005	2105	2205	2305
CHANNEL C %	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.7	99.8	100.0	100.0	100.0	100.0	100.0	99.5	100.0	99.5	99.5	100.0
CHANNEL C u. AMPS	27.8	27.7	27.6	27.6	27.6	27.7	27.7	27.6	27.5	27.4	27.4	27.4	27.4	27.4	27.4	27.5	27.4	27.5	27.5	27.6
CHANNEL C u. AMP	TIME	0505	0605	0705	0805	0905	1005	1105	1205	1305	1405	1505	1606	1706	1806	1906	2006	2106	2206	2306
CHANNEL D %	104.0	102.5	103.0	103.5	103.7	103.0	104.0	104.0	102.0	102.0	102.0	103.5	104.0	104.0	103.5	103.0	103.0	103.0	102.5	103.5
CHANNEL D u. AMPS	5.81	5.80	5.80	5.81	5.85	5.85	5.81	5.80	5.80	5.80	5.80	5.82	5.82	5.83	5.83	5.82	5.83	5.80	5.78	5.81
CHANNEL D u. AMPS	TIME	0505	0605	0705	0805	0905	1005	1105	1205	1305	1405	1505	1606	1706	1806	1906	2006	2106	2206	2306
FLUX TIME INTGR	18713	18783	18793	18802	18812	18822	18832	18842	18852	18862	18872	18882	18892	18902	18912	18922	18932	18941	18951	18961
TOTAL REPH	1.0	1.0	1.0	0.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
AVG % POWER LEVEL	102.3	101.4	101.5	102.0	102.7	102.0	102.2	102.3	101.2	101.0	101.8	102.4	102.7	102.7	102.4	102.3	102.0	101.3	101.0	101.6

DUQUESNE LIGHT
POWER STATIONS
SHIPPING CRCT. APS

DL-5-225 6
SECTION I
REACTIVITY LIFETIME TEST

Table I (cont'd)

DATE	19-21-58	9-27-58 9:28-58
TIME	0500 0600 0700 0800 0900 1000 1100 1200 1300 1400 1500 1600 1700 1800 1900 2000 2100 2200 2300 0000 0100 0200 0300 0400	
No. I MAIN GEN. INTEG.	247650 248534 249221 249914 250610 251308 252001 252696 253388 254077 254766 255455 256148 256844 257533 258220 258910 259599 260276 260961 261647 262332 263017 263701 264387	
TIME	0501 0601 0701 0801 0901 1001 1101 1201 1301 1401 1501 1601 1701 1801 1901 2001 2101 2201 2301 0001 0101 0201 0301 0401	
No. I STA. TMR INTEG.	7831.0 7835.2 7839.4 7843.6 7847.9 7852.0 7856.1 7860.2 7864.5 7868.9 7873.0 7877.3 7881.4 7885.7 7889.9 7894.1 7898.2 7902.4 7906.7 7910.8 7914.9 7919.1 7923.1 7927.3	
TIME	0502 0602 0702 0802 0902 1002 1102 1202 1302 1402 1502 1602 1702 1802 1902 2002 2102 2202 2302 0002 0102 0202 0302 0402	
138 KV TMR INTEG.	8913.8 8918.4 8922.9 8927.1 8931.7 8935.8 8939.5 8944.8 8949.1 8953.8 8958.0 8962.5 8966.8 8971.4 8975.6 8979.8 8984.3 8988.8 9003.1 9017.1 9031.7 9046.0 9060.4 9074.6	
GEN. OUTPUT FROM INT.	68.8 68.4 68.7 69.3 69.6 69.8 69.3 69.5 69.2 68.9 68.9 68.9 69.3 69.6 69.1 68.5 68.5 68.5 68.6 68.5 68.6 68.2 68.3 68.5	
NET STA. OUTPUT FROM INT.	60.4 59.6 60.0 60.7 59.7 62.6 61.5 60.1 60.6 59.8 60.6 60.4 60.9 60.7 60.5 59.7 59.9 59.8 60.0 60.4 59.9 59.7 59.9 60.1	
TIME	0503 0603 0703 0803 0903 1003 1103 1203 1303 1403 1503 1603 1703 1803 1903 2003 2103 2203 2303 0003 0103 0203 0303 0403	
MAIN GEN. IND.	70.3 70.2 70.3 70.7 71.0 72.0 71.0 71.0 70.7 71.0 71.0 71.0 71.0 71.0 70.0 70.0 70.0 70.0 70.4 70.3 70.0 70.2 70.2	
NET STA. OUTPUT IND.	59.9 59.5 60.1 60.5 60.9 61.0 60.5 60.8 60.0 60.2 60.0 60.5 60.6 60.9 59.5 59.9 59.8 59.8 59.8 59.8 59.9 59.6 59.8 59.9	
LINEAR LEVEL POWER LEVEL		
TIME	0503 0603 0703 0803 0903 1003 1103 1203 1303 1403 1504 1604 1704 1804 1904 2004 2104 2204 2304 0004 0104 0204 0304 0404	
CHANNEL A %	99.0 99.0 100.0 100.5 102.0 102.6 101.0 102.0 100.0 101.0 100.0 101.5 100.5 101.0 98.8 98.8 98.4 98.0 98.0 99.0 99.0 99.5 99.8 99.5	
CHANNEL A u. AMPS	25.9 25.8 26.2 26.4 26.6 26.6 26.5 26.5 26.5 26.5 26.4 26.5 26.5 26.6 25.9 25.9 25.8 25.8 25.8 25.7 25.7 25.9 25.9 25.9	
CHANNEL A u. AMPS		
TIME	0504 0604 0704 0804 0904 1004 1104 1203 1303 1403 1504 1605 1705 1805 1905 2005 2105 2205 2305 0005 0105 0205 0305 0405	
CHANNEL B %	101.0 101.0 102.5 103.5 105.0 105.0 103.0 104.0 102.5 102.5 102.5 104.0 102.5 100.0 100.8 100.5 101.0 100.5 100.5 101.8 101.8 102.0 102.0 102.8	
CHANNEL B u. AMPS	50.0 49.5 50.3 50.4 50.8 51.0 50.5 50.8 50.0 50.1 50.0 50.8 50.8 49.8 49.8 49.9 50.0 49.9 49.9 49.9 49.9 50.0 50.0 50.0	
CHANNEL B u. AMPS		
TIME	0505 0605 0705 0805 0905 1005 1104 1204 1304 1404 1504 1606 1706 1806 1906 2006 2106 2206 2306 0006 0106 0206 0306 0406	
CHANNEL C %	98.0 98.0 100.0 100.0 101.0 100.0 100.0 99.8 98.0 99.0 98.0 99.5 98.7 100.0 97.2 97.8 98.1 98.0 98.1 99.5 99.5 99.5 99.8 100.0	
CHANNEL C u. AMPS	27.4 27.4 27.4 27.4 27.6 27.6 27.4 27.6 27.2 27.2 27.2 27.2 27.2 27.3 27.2 27.2 27.2 27.2 27.5 27.3 27.3 27.3 27.4	
CHANNEL C u. AMPS		
TIME	0506 0606 0706 0806 0906 1006 1105 1205 1305 1405 1505 1606 1707 1807 1907 2007 2107 2207 2307 0007 0107 0207 0307 0407	
CHANNEL D %	99.0 98.0 100.0 100.0 101.0 101.0 100.0 106.0 104.0 105.0 104.0 105.0 104.2 105.0 102.8 101.2 101.0 101.0 101.1 101.0 101.0 100.0 99.0 96.8	
CHANNEL D u. AMPS	5.73 5.70 5.78 5.80 5.80 5.88 5.81 5.81 5.78 5.78 5.78 5.81 5.81 5.82 5.70 5.71 5.71 5.71 5.71 5.71 5.71 5.73 5.75	
CHANNEL D u. AMPS		
TIME	0507 0607 0707 0807 0907 1007 1105 1205 1305 1405 1505 1605 1705 1807 1907 2007 2107 2207 2308 0008 0108 0208 0308 0408	
FLUX TIME INTEGR	19010 19020 19030 19040 19050 19060 19070 OUT OF SERVICE 19119 19129 19138 19149 19159 19169 19179 19189 19199 19208 19218 19228 19238	
TOTAL EFPH	1.0 1.0 1.0 1.0 1.0 1.0 1.0 - - - - - 1.0 0.9 1.1 1.0 1.0 1.0 1.0 1.0 0.9 1.0 1.0 1.0	
AVG % POWER LEVEL	99.0 99.0 100.6 101.0 102.2 102.0 101.0 103.0 101.1 102.0 101.5 102.5 101.5 102.0 99.9 99.6 99.7 99.4 99.4 100.3 100.3 100.3 100.1 99.6	

* ADD 1.8 TO INTEGR READING EACH TIME

DAP

5F

Table I (cont'd)

DATE	9-28										9-28 9-29										9-29									
TIME	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	0100	0200	0300	0400						
No I MAIN GEN INTEGR	24982	26565	26578	26430	26715	26702	26841	26917	26987	27055	27145	27132	27220	27338	27397	27487	27574	27663	27749	27846	27942	28040	28138	28235	28332	28429	28526	28623	28720	28817
TIME	0501	0601	0701	0801	0901	1001	1101	1201	1301	1401	1501	1601	1701	1801	1901	2001	2101	2201	2301	2401	0101	0201	0301	0401						
No I STA TRAFK INTEGR	79316	79363	79398	79440	79482	79524	79566	79605	79648	79692	79731	79772	79813	79852	79899	79946	79981	80021	80065	80108	80152	80194	80231	80276						
TIME	0502	0602	0702	0802	0902	1002	1102	1202	1302	1402	1502	1602	1702	1802	1902	2002	2102	2202	2302	2402	0102	0202	0302	0402						
13E KV TRAFK INTEGR	90190	90234	90275	90321	90362	90408	90450	90492	90538	90583	90623	90665	90710	90753	90799	90842	90883	90926	90970	91016	91058	91101	91141	91190						
GEN. OUTPUT FROM INT.	68.5	67.3	68.3	68.2	68.8	68.4	68.9	68.9	68.8	69.1	69.7	67.7	68.8	68.8	68.9	69.0	68.9	68.7	68.6	69.1	68.9	68.6	68.8	68.7						
NET STA. OUTPUT FROM INT.	59.8	58.2	60.7	59.4	60.3	59.6	60.5	60.8	59.9	60.3	60.7	59.4	60.2	60.2	60.0	60.6	60.7	60.4	59.8	60.4	60.0	60.0	60.8	59.3						
TIME	0503	0603	0703	0803	0903	1003	1103	1203	1303	1403	1503	1603	1703	1803	1903	2003	2103	2203	2303	2403	0103	0203	0303	0403						
MAIN GEN IND.	70.3	70.0	70.0	70.0	70.0	70.5	70.5	70.8	70.7	70.8	70.8	70.8	70.8	70.8	71.0	70.9	70.9	70.6	70.7	70.9	70.5	70.5	70.9	70.9						
NET STA OUTPUT IND.	59.9	59.5	59.6	59.8	59.8	60.0	60.0	60.1	60.1	60.1	60.0	60.0	60.0	60.0	60.0	60.1	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0						
LINEAR LEVEL POWER LEVEL																														
TIME	0504	0604	0704	0804	0904	1004	1104	1204	1304	1404	1504	1604	1704	1804	1904	2004	2104	2204	2304	2404	0104	0204	0304	0404						
CHANNEL A %	100.25	100.5	99.5	100.0	100.0	101.0	101.0	101.0	102.0	102.0	102.0	100.0	100.0	100.0	100.0	99.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	99.0						
CHANNEL A u AMPS	259	260	26.8	259	259	26.3	26.3	26.3	26.5	26.4	26.4	26.2	26.2	26.0	26.2	26.0	25.9	25.7	25.8	25.5	25.7	25.6	25.8	25.7						
CHANNEL A u AMPS																														
TIME	0505	0605	0705	0805	0905	1005	1105	1205	1305	1405	1505	1605	1705	1805	1905	2005	2105	2205	2305	2405	0105	0205	0305	0405						
CHANNEL B %	102.0	102.0	100.0	101.0	101.0	101.5	102.0	102.0	102.0	102.0	102.0	101.5	101.0	101.5	102.5	101.0	100.5	101.0	101.0	100.5	100.0	100.0	101.0							
CHANNEL B u AMPS	50.0	50.0	49.2	49.4	49.4	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	49.9	49.8	49.9	49.9	49.9	49.9	49.9	49.9						
CHANNEL B u AMPS																														
TIME	0506	0606	0706	0806	0906	1006	1106	1206	1306	1406	1506	1606	1706	1806	1906	2006	2106	2206	2306	2406	0106	0206	0306	0406						
CHANNEL C %	100.0	99.0	98.0	98.0	98.0	98.0	98.0	98.0	98.5	98.0	98.0	98.0	98.0	98.0	98.5	101.0	99.5	99.0	99.0	99.0	99.0	99.0	99.0	99.0						
CHANNEL C u AMPS	27.5	27.3	26.9	27.0	27.0	27.2	27.0	27.0	27.2	27.1	27.1	27.2	27.1	27.2	27.3	27.3	27.8	27.8	27.8	27.9	27.5	27.4	27.3	27.3						
CHANNEL C u AMPS																														
TIME	0507	0607	0707	0807	0907	1007	1107	1207	1307	1407	1507	1607	1707	1807	1907	2007	2107	2207	2307	2407	0107	0207	0307	0407						
CHANNEL D %	99.0	99.0	99.0	95.0	99.5	102.0	102.0	101.0	101.5	102.0	99.9	99.0	105.5	102.5	102.5	106.5	105.0	105.0	105.0	105.0	104.0	102.0	102.0	99.0						
CHANNEL D u AMPS	57.5	57.5	56.0	57.1	57.0	57.2	57.3	57.3	57.3	57.3	57.3	57.9	57.9	57.2	57.9	57.2	57.2	57.0	57.3	57.0	57.0	57.0	57.2	57.2						
CHANNEL D u AMPS																														
TIME	0508	0608	0708	0808	0908	1008	1108	1208	1308	1408	1508	1608	1708	1808	1908	2008	2108	2208	2308	2408	0108	0208	0308	0408						
FLUX TIME INTGR	19248	19257	19248	19258	19268	19278	19288	19297	19307	19317	19327	19337	19347	19356	19366	19376	19386	19395	19404	19414	19424	19434	19443	19453						
TOTAL EFPH	1.0	0.9	0.9	1.0	1.0	1.0	1.0	0.9	1.0	1.0	1.0	1.0	1.0	0.9	1.0	1.0	1.0	0.9	1.0	1.0	1.0	1.0	0.9	1.0						
AUG % POWER LEVEL	100.31	100.23	99.9	98.5	98.4	100.6	100.8	100.5	101.0	101.0	100.5	99.8	101.3	100.4	100.6	102.3	101.1	100.6	100.8	100.75	100.38	99.75	99.70	99.38						

8

REACTIVITY LIFETIME TEST

9/29-30/58

Table I (cont'd)

[illegible]

D.L.
P.S.
SAPS.

DL-5-225
SECTION I
REACTIVITY LIFE TIME
9
7/30/58 - 10/1/58

TABLE I (CONT'D)

DATE TIME	9/30	10/1/58
No I MAIN GEN INTGR.	0400 0500 0600 0700 0800 0900 1000 1100 1200 1300 1400 1500 1600 1700 1800 1900 2000 2100 2200 2300 0000 0100 0200	296626 29731.0 29799.5 29868.2 29936.8 30005.7 30074.3 30142.6 30210.8 30279.1 30347.8 30416.7 30485.3 30553.5 30622.2 30691.0 30759.7 30828.2 30896.4 30964.8 31033.4 31102.3 31171.3
No I STA TFR INTGR.	0401 0501 0601 0701 0801 0901 1001 1101 1201 1301 1401 1501 1601 1701 1801 1901 2001 2101 2201 2301 0001 0101 0201	8128.2 8132.2 8136.7 8140.8 8144.9 8148.9 8153.1 8157.6 8161.9 8165.9 8170.0 8174.4 8178.5 8182.7 8186.9 8191.1 8195.2 8199.5 8203.8 8208.0 8212.0 8216.2 8220.2
138 KV TFR INTGR.	0402 0502 0602 0702 0802 0902 1002 1102 1202 1302 1402 1502 1602 1702 1802 1902 2002 2102 2202 2302 0002 0102 0202	9223.6 9228.0 9232.2 9236.5 9240.7 9245.3 9249.7 9254.0 9258.5 9262.8 9267.0 9271.3 9275.8 9279.8 9284.5 9289.1 9293.2 9297.7 9302.0 9306.1 9310.8 9315.1 9319.3
GEN. OUTPUT FROM INT.	68.6 68.4 68.5 68.7 68.6 68.9 68.6 68.3 68.2 68.3 68.9 68.7 68.6 68.2 68.7 68.8 68.7 68.5 68.2 68.4 68.6 68.9 69.0	59.8 60.0 59.8 60.3 60.0 60.6 60.0 59.5 59.4 60.0 60.6 59.5 60.5 60.0 59.8 60.0 60.5 59.7 59.6 60.1 59.9 60.4 60.8
NET STA. OUTPUT FROM INT.	0403 0503 0603 0703 0803 0903 1003 1103 1203 1303 1403 1503 1603 1703 1803 1903 2003 2103 2203 2303 0003 0103 0203	70.3 70.3 70.5 70.3 70.1 71.0 70.1 70.1 70.0 70.2 70.1 70.1 70.2 70.2 70.7 70.8 70.4 70.2 70.3 70.4 70.7 71.0 70.9
MAIN GEN. IND.	59.5 59.5 59.5 60.0 59.5 60.1 69.8 60.0 59.5 60.0 60.0 60.0 59.8 59.8 60.0 60.0 59.9 59.7 59.9 59.9 60.0 60.1 60.1	
NET STA. OUTPUT IND.		
LINEAR LEVEL POWER LEVEL		
TIME	0403 0503 0603 0703 0803 0903 1003 1103 1203 1303 1403 1503 1603 1703 1803 1903 2003 2103 2203 2303 0003 0103 0203	
CHANNEL A	70 99.0 100.0 100.0 101.0 99.9 101.0 100.0 100.0 98.0 99.0 100.0 98.0 98.0 97.5 97.0 97.5 97.5 96.5 97.5 97.5 98.0 98.0 97.5	
CHANNEL A	MAmps 25.8 26.0 26.1 26.2 26.0 26.4 26.0 26.0 25.9 25.9 26.0 25.9 25.7 25.5 25.5 25.5 25.4 25.3 25.4 25.4 25.5 25.6 25.8	
CHANNEL A	AMPS 77.4 78.0 78.3 78.6 78.0 79.2 78.0 78.0 77.7 77.7 78.0 77.7 77.1 76.5 76.5 76.5 76.2 75.9 76.2 76.2 76.5 76.8 77.4	
TIME	0404 0504 0604 0704 0804 0904 1004 1104 1204 1304 1404 1504 1604 1704 1804 1904 2004 2104 2204 2304 0004 0104 0204	
CHANNEL B	70 100.0 101.0 101.0 102.5 100.0 101.0 100.0 100.0 99.0 100.0 102.0 100.0 99.5 99.5 101.5 100.0 100.0 99.5 99.5 99.5 99.5 100.0 100.0	
CHANNEL B	MAmps 49.8 49.9 49.9 49.9 49.9 49.9 49.5 49.5 49.0 49.8 49.8 49.6 49.7 49.2 49.8 49.8 49.8 49.2 49.3 49.3 49.5 49.9 49.9	
CHANNEL B	AMPS 99.6 99.8 99.8 99.8 99.8 99.8 99.0 99.0 98.0 99.6 99.6 99.2 99.4 98.4 99.6 99.6 99.6 98.4 98.6 98.6 99.0 99.8 99.8	
TIME	0404 0504 0604 0704 0804 0904 1004 1104 1204 1304 1404 1504 1604 1704 1804 1904 2004 2104 2204 2304 0004 0104 0204	
CHANNEL C	70 97.5 97.5 97.5 97.5 97.0 97.25 95.0 95.0 95.0 97.0 97.5 97.5 97.0 97.5 98.0 98.5 98.5 98.0 98.5 97.5 97.5 97.5 97.5	
CHANNEL C	MAmps 26.8 26.8 27.0 27.0 26.5 26.5 26.5 26.5 26.3 26.5 26.5 26.5 26.8 26.9 27.2 27.2 27.2 27.1 27.1 27.2 27.1 27.1 27.1	
CHANNEL C	AMPS 96.48 96.48 97.2 97.2 95.4 95.4 95.4 95.4 94.7 95.4 95.4 95.4 96.48 96.84 97.92 97.92 97.92 97.56 97.56 97.92 97.56 97.56 97.56	
TIME	0405 0505 0605 0705 0805 0905 1005 1105 1205 1305 1405 1505 1605 1705 1805 1905 2005 2105 2205 2305 0005 0105 0205	
CHANNEL D	70 104.5 105.0 105.0 105.0 104.0 105.0 104.0 103.0 102.0 103.0 103.0 100.0 99.0 99.0 100.0 102.5 100.0 99.0 102.5 102.5 103.0 103.0 103.5	
CHANNEL D	MAmps 5.7 5.7 5.7 5.7 5.68 5.7 5.68 5.69 5.62 5.69 5.7 5.69 5.63 5.64 5.70 5.69 5.69 5.65 5.69 5.67 5.69 5.70 5.70	
CHANNEL D	AMPS 84.6 84.65 84.79 84.65 84.44 84.79 84.44 84.5 83.46 84.5 84.64 84.5 83.61 83.75 84.65 84.50 84.50 83.70 84.50 84.20 84.50 84.65 84.65	
TIME	0405 0505 0605 0705 0805 0905 1005 1105 1205 1305 1405 1505 1605 1705 1805 1905 2005 2105 2205 2305 0005 0105 0205	
FLUX TIME INTGR.	19703 1971.2 1972.2 1973.2 1974.2 1975.1 1976.1 1977.1 1978.0 1979.0 1980.0 1981.8 1982.8 1983.8 1984.8 1985.8 1986.7 1987.7 1988.7 1989.6 1990.6 1991.5	
TOTAL EFPH	1.0 0.9 1.0 1.0 1.0 0.9 1.0 1.0 0.9 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.9 1.0 1.0 0.9 1.0 0.9	
AVG 70 POWER LEVEL	100.25 100.28 100.28 101.50 100.22 101.06 99.75 99.50 98.50 99.75 100.62 98.87 98.40 98.40 99.10 99.7 99.0 98.3 99.5 99.2 99.5 99.6 100.1	

D. L
P. S
SAPS.

DL-5-225
SECTION I
REACTIVITY LIFETIME

10

10/1/58

TABLE I (CONT'D)

DATE	TIME	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2130	2200	2230	2300
No I MAIN GEN. INTER.	TIME	31237.9	31209.7	31378.0	31448.0	31516.7	31586.9	31655.8	31725.0	31794.3	31863.9	31932.9	32001.8	32070.5	32139.1	32207.9	32276.8	32345.8	32414.7	32483.6	32552.1	32620.3	32688.6	32756.7
No I STA TMR. INTER.	TIME	0301	0401	0501	0601	0701	0801	0901	1001	1101	1201	1301	1401	1501	1601	1701	1801	1901	2001	2101	2131	2201	2231	2301
138 KV TMR. INTER.	TIME	82245	82288	82330	82370	82413	82455	82497	82540	82582	82623	82665	82709	82750	82791	82833	82875	82918	82959	83002	83043	83084	83126	83167
GEN. OUTPUT FROM INT.	TIME	0302	0402	0502	0602	0702	0802	0902	1002	1102	1202	1302	1402	1502	1602	1702	1802	1902	2002	2102	2132	2202	2232	2302
NET STA. OUTPUT FROM INT.	TIME	93248	93282	93322	93368	93412	93454	93498	93540	93584	93628	93671	93715	93759	93802	93842	93889	93933	93978	94021	94062	94103	94147	94190
MAIN GEN IND.	TIME	68.6	69.3	69.3	69.0	68.7	69.7	69.4	69.2	69.3	69.1	69.0	69.4	68.7	69.5	69.3	69.2	69.2	68.6	68.6	34.1	39.2	39.3	39.2
NET STA. OUTPUT IND.	TIME	58.8	61.6	61.1	60.4	60.0	61.3	60.8	60.7	60.7	60.6	60.7	60.6	61.9	61.1	61.3	60.0	60.8	58.0	60.0	29.9	30.0	29.7	30.1
LINEAR LEVEL POWER LEVEL	TIME	0303	0403	0503	0603	0703	0803	0903	1003	1103	1203	1303	1403	1503	1603	1703	1803	1903	2003	2103	2133	2203	2233	2303
CHANNEL A	70	100.0	101.35	101.3	101.0	100.0	101.0	101.0	101.5	101.0	100.0	100.0	100.0	100.5	98.5	98.0	98.0	97.5	97.5	97.0	97.0	97.0	97.0	97.0
CHANNEL A	HAMPS	25.9	26.0	26.2	26.2	26.1	26.4	26.4	26.4	26.3	26.0	26.1	26.0	26.0	25.7	25.6	25.5	25.3	25.3	25.0	25.1	25.2	25.2	25.3
CHANNEL A	AMPS	77.7	78.0	78.6	78.6	78.3	79.2	79.2	79.2	78.9	78.0	78.3	78.0	78.0	77.1	76.8	76.5	75.9	75.9	75.0	75.3	75.6	75.6	75.9
CHANNEL B	70	100.5	101.35	101.5	101.50	100.0	101.0	101.0	102.0	101.5	101.0	102.0	102.5	103.0	101.0	100.3	100.3	100.0	100.0	98.5	98.5	99.0	99.0	99.0
CHANNEL B	HAMPS	49.9	50.0	50.0	50.0	50.0	50.0	50.0	50.2	50.1	50.2	50.3	50.3	50.5	50.0	50.0	49.9	49.2	49.3	48.9	49.0	49.0	49.0	49.0
CHANNEL B	AMPS	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.4	100.2	100.4	100.6	100.6	101.5	100.0	100.0	99.8	99.4	99.6	97.8	98.0	98.0	98.0	98.0
CHANNEL C	70	97.5	97.5	97.5	96.75	96.8	97.0	97.0	97.0	97.5	97.0	98.0	98.5	100.0	98.0	98.5	99.0	98.5	98.5	98.0	98.0	97.5	97.5	97.0
CHANNEL C	HAMPS	27.0	26.9	27.0	26.9	26.5	26.5	26.5	26.6	26.6	26.8	26.9	27.3	27.5	27.4	27.4	27.4	27.4	27.3	27.2	27.5	27.4	27.2	27.0
CHANNEL C	AMPS	97.2	98.4	97.2	96.84	95.9	95.4	95.4	95.76	95.76	96.48	96.89	98.28	98.0	97.4	97.4	97.9	98.69	98.28	97.92	98.00	98.69	97.92	97.20
CHANNEL D	70	103.5	107.5	101.5	100.0	100.0	101.0	101.0	101.5	100.0	100.0	100.0	101.0	102.0	100.0	003	003	99.0	99.0	99.5	99.5	99.5	99.5	99.5
CHANNEL D	HAMPS	5.71	5.71	5.71	5.70	5.89	5.71	5.70	5.72	5.71	5.70	5.71	5.73	5.80	5.80	↓	↓	5.29	5.29	5.45	5.42	5.45	5.42	5.42
CHANNEL D	AMPS	84.79	84.79	84.79	84.45	83.49	84.79	84.65	84.94	84.79	84.65	84.79	85.09	86.13	84.69	↓	↓	72.96	72.81	72.49	72.49	72.49	72.49	72.49
FLUX TIME INTER.	TIME	0305	0405	0505	0605	0705	0805	0905	1005	1105	1205	1305	1405	1505	1605	1705	1805	1905	2005	2105	2135	2205	2235	2305
TOTAL EFPH	TIME	1912.5	1993.9	1994.4	1995.4	1998.4	1997.3	1998.3	1999.3	2000.3	2001.2	2002.2	2003.2	2003.2	2003.2	2003.2	2003.2	2003.2	2003.2	2003.2	2003.2	2003.2	2003.2	2003.2
AVG % POWER LEVEL	TIME	1.0	0.9	1.0	1.0	1.0	0.9	1.0	1.0	1.0	0.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.9	0.9	0.9	0.9	0.6	0.5

DL-5-225

11

SECTION I
REACTIVITY LIFETIME

10/2/58

TABLE I (CONT'D)

[illegible]

DL-S-225 12
SECTION I
REACTIVITY LIFETIME
10/2-3/58

10/2-3/58

54

SUBJECT DL-5-225 SHEET NO. 13
 SECTION I
 REACTIVITY LIFETIME
 DATE 10/3-4/58

DUQUESNE LIGHT COMPANY
 POWER STATIONS DEPARTMENT
 SHIPPING PORT APS

TABLE I (CONT'D)

DATE	10-3	10-3	10-9	10-4	10-4	10-4	10-4	10-4	10-4	10-4	10-4	10-4	10-4	10-4	10-4	10-4	10-4	10-4	10-4	10-4	10-4	10-4	10-4	10-4
TIME	2200	2300	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	
No.1 MAIN GEN. INTEGR.	3584.9	3593.5	3600.1	3607.3	3614.2	3621.6	3628.0	3634.7	3641.8	3648.7	3655.6	3662.5	3669.0	3676.8	3683.8	3690.1	3697.2	3703.9	3710.1	3717.6	3724.9	3731.3	3738.2	
TIME	2201	2301	0001	0101	0201	0301	0401	0501	0601	0701	0801	0901	1001	1101	1201	1301	1401	1501	1601	1701	1801	1901	2001	
No.1 STA. TMR. INTEGR.	8505.7	8509.8	8519.0	8514.3	8522.2	8521.8	8530.9	8535.0	8539.1	8543.7	8547.9	8551.9	8556.0	8560.2	8564.5	8568.8	8572.9	8577.0	8581.3	8585.6	8589.8	8593.9	8598.2	
TIME	2202	2302	0002	0102	0202	0302	0402	0502	0602	0702	0802	0902	1002	1102	1202	1302	1402	1502	1602	1702	1802	1902	2002	
138 KV. TMR. INTEGR.	9614.6	9619.0	9623.3	9627.9	9631.9	9636.2	9640.8	9645.0	9649.3	9653.9	9657.9	9662.1	9666.6	9671.3	9675.2	9679.8	9683.9	9688.4	9692.8	9696.9	9701.5	9706.0	9710.2	
GEN. OUTPUT FROM INTEGR.	68.7	68.7	69.0	68.8	69.1	69.1	68.8	68.6	69.1	69.0	69.1	68.9	68.9	68.8	69.0	69.2	69.1	69.1	68.8	68.3	68.5	68.4	69.3	
NET STA. OUTPUT FROM INTEGR.	60.2	60.2	60.5	59.9	61.2	60.2	60.1	60.3	60.5	60.0	60.9	60.4	60.6	59.9	60.9	60.2	61.0	60.4	60.1	59.9	59.7	59.8	60.6	
TIME	2203	2303	0003	0103	0203	0303	0403	0503	0603	0703	0803	0903	1003	1103	1203	1303	1403	1503	1603	1703	1803	1903	2003	
MAIN GEN. INDICATOR	70.0	70.7	70.9	70.9	70.9	70.8	70.7	70.4	71.0	70.9	70.1	70.5	70.8	71.0	70.9	70.5	70.9	70.9	70.1	70.2	70.2	71.0	71.0	
NET STA. OUTPUT INDIC.	59.8	60.0	60.0	60.0	60.1	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	59.5	59.8	59.8	60.0	60.0	
LINEAR LEVEL POWER LEVEL																								
TIME	2203	2303	0003	0103	0203	0303	0403	0503	0603	0703	0803	0903	1003	1103	1203	1303	1403	1503	1603	1703	1803	1903	2003	
CHANNEL A	%	102.0	102.0	102.5	103.0	103.25	103.5	103.0	102.5	102.5	102.5	102.0	101.0	100.0	100.0	100.0	99.0	99.0	98.0	99.0	99.0	100.0	101.5	
"	μ	25.3	25.3	25.5	25.9	25.9	25.8	25.7	25.7	25.8	25.6	25.5	25.5	25.0	25.0	25.0	24.9	24.9	24.6	24.6	24.6	25.1	25.3	
"	Amper	75.9	75.9	76.5	77.7	77.7	77.4	77.1	77.1	77.4	76.8	76.5	75.0	75.0	75.0	75.0	74.7	74.7	73.8	73.8	73.8	75.3	75.9	
TIME	2204	2304	0004	0104	0204	0304	0404	0504	0604	0704	0804	0904	1004	1104	1204	1304	1404	1504	1604	1704	1804	1904	2004	
CHANNEL B	%	102.0	102.0	102.5	103.0	103.0	103.5	103.5	103.0	102.5	102.5	103.5	103.5	103.5	103.0	103.0	102.5	102.5	102.5	101.0	100.5	102.5	102.5	
"	μ	48.4	48.8	48.9	49.0	49.1	49.0	49.0	49.0	49.3	49.4	49.5	49.2	49.2	49.1	49.1	49.0	49.0	48.3	48.1	48.2	48.8	48.8	
"	Amper	96.8	97.6	97.8	98.0	98.2	98.6	98.0	98.0	98.6	98.8	98.9	99.0	99.6	99.6	98.2	98.2	98.0	98.0	96.6	96.2	96.4	97.6	
TIME	2204	2304	0004	0104	0204	0304	0404	0504	0604	0704	0804	0904	1004	1104	1204	1304	1404	1504	1604	1704	1804	1904	2004	
CHANNEL C	%	100.0	100.0	99.5	98.5	98.5	98.0	97.5	98.0	99.5	99.5	100.0	100.0	100.5	102.0	102.0	102.5	102.5	103.0	102.0	102.0	101.5	102.0	
"	μ	26.0	26.0	26.0	26.1	26.0	25.8	25.7	26.0	25.2	25.8	26.1	26.2	26.2	26.8	26.8	26.9	26.2	27.5	27.5	27.5	27.4	27.2	
"	Amper	93.6	93.6	93.6	94.0	93.6	92.9	92.52	93.6	92.52	92.9	93.96	94.32	94.32	96.48	96.48	96.84	94.32	99.0	99.0	98.4	97.92	97.92	
TIME	2205	2305	0005	0105	0205	0305	0405	0505	0605	0705	0805	0905	1005	1105	1205	1305	1405	1505	1605	1705	1805	1905	2005	
CHANNEL D	%	107.5	107.0	106.5	107.0	107.0	106.5	105.0	105.5	106.0	106.0	106.5	106.5	106.5	107.0	107.0	107.0	107.5	107.5	107.0	107.0	107.0	107.0	
"	μ	5.60	5.60	5.60	5.60	5.60	5.6	5.52	5.52	5.52	5.51	5.51	5.52	5.52	5.58	5.58	5.59	5.60	5.60	5.58	5.59	5.62	5.53	
"	Amper	83.16	83.16	83.16	83.16	83.16	83.16	81.97	81.97	81.97	81.82	81.82	81.97	81.97	82.86	82.86	83.01	83.16	83.16	82.86	83.01	83.01	82.86	
TIME	2205	2305	0005	0105	0205	0305	0405	0505	0605	0705	0805	0905	1005	1105	1205	1305	1405	1505	1605	1705	1805	1905	2005	
FLUX TIME INTEGR.	2058.3	2059.3	2060.3	2061.3	2062.2	2063.2	2064.9	2065.2	2066.2	2067.2	2068.2	2069.2	2070.2	2071.2	2072.1	2073.1	2074.1	2075.1	2076.0	2077.0	2078.0	2079.0	2079.9	
TOTAL EFPH	1.0	1.0	1.0	1.0	0.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.9	1.0	1.0	1.0	0.9	
AVG. POWER LEVEL	%	102.1	102.8	102.8	102.9	102.99	102.9	102.0	102.3	102.3	103.1	103.25	103.0	102.87	103.12	103.0	103.1	102.93	103.0	101.9	102.3	102.0	103.0	

SUBJECT DL-5225 SHEET NO. 14
REACTIVITY LIFETIME TEST
HOURLY READINGS
 EXAMINED BY TESTER CHECKED BY _____ DATE 10-4 - 10-5-58

TABLE I (CONT'D)

[illegible]

DL-S-223

SHEET NO. 15

DUQUESNE LIGHT
POWER STATIONS
SHIPPING PORT

REACTIVITY LIFETIME
HOURLY READINGS

TEST CREW

DATE 10/5-6/58

TABLE I (CONT'D)

DATE TIME	10-5 2000	11-5 2100	10-5 2200	10-5 2300	10-6 0000	10-6 0100	10-6 0200	10-6 0300	10-6 0400	10-6 0500	10-6 0600	10-6 0700	10-6 0800	10-6 0900	10-6 1000	10-6 1100	10-6 1200	10-6 1300	10-6 1400	10-6 1500	10-6 1600	10-6 1700	10-6 1800	10-6 1900
MAIN GEN INTEGRATOR	3902.1	3910.0	3918.7	3927.8	3936.7	3945.3	3954.2	3963.0	3971.9	3980.8	3989.7	3998.6	4007.5	4016.4	4025.3	4034.2	4043.1	4052.0	4060.9	4069.8	4078.7	4087.6	4096.5	4105.4
TIME	2001	2101	2201	2301	0001	0101	0201	0301	0401	0501	0601	0701	0801	0901	1001	1101	1201	1301	1401	1501	1601	1701	1801	1901
No. 1 STA TMR INTGR	4696.8	8704.0	8705.0	8709.3	8713.5	8717.5	8721.6	8725.7	8729.8	8733.9	8738.0	8742.1	8746.2	8750.3	8754.4	8758.5	8762.6	8766.7	8770.8	8774.9	8779.0	8783.1	8787.2	8791.3
TIME	2002	2102	2202	2302	0002	0102	0202	0302	0402	0502	0602	0702	0802	0902	1002	1102	1202	1302	1402	1502	1602	1702	1802	1902
138KV STA TMR INTGR	9805.3	9814.8	9824.3	9833.8	9843.3	9852.8	9862.3	9871.8	9881.3	9890.8	9900.3	9909.8	9919.3	9928.8	9938.3	9947.8	9957.3	9966.8	9976.3	9985.8	9995.3	10004.8	10014.3	10023.8
GEN OUTPUT FROM INTGR	69.0	68.9	68.9	68.9	68.9	68.6	69.0	69.9	68.8	68.9	68.9	69.1	68.9	68.2	68.9	68.7	68.9	68.7	68.8	68.1	69.2	69.4	69.4	69.4
NET STA. OUTPUT FROM INT.	60.8	60.2	60.4	60.2	60.2	61.3	60.3	61.6	60.2	60.4	60.1	60.7	60.5	59.5	60.8	59.5	60.7	60.1	60.1	59.3	60.7	60.9	60.7	61.0
TIME	2003	2103	2203	2303	0003	0103	0203	0303	0403	0503	0603	0703	0803	0903	1003	1103	1203	1303	1403	1503	1603	1703	1803	1903
MAIN GEN INDICATOR	70.5	70.5	70.5	70.3	71.0	71.1	70.8	70.5	70.2	70.6	71.0	70.8	70.5	70.3	70.3	70.8	70.5	70.5	70.8	71.0	71.0	71.5	71.0	71.1
NET STA OUTPUT INDIC.	60.0	60.0	60.0	59.9	60.0	60.2	60.7	61.0	59.9	60.0	60.1	60.0	60.0	59.8	59.9	60.0	60.0	59.9	60.0	60.2	60.1	60.2	60.2	60.2
LINEAR LEVEL POWER																								
TIME	2003	2103	2203	2303	0003	0103	0203	0303	0403	0503	0603	0703	0803	0903	1003	1103	1203	1303	1403	1503	1603	1703	1803	1903
CHANNEL A	%	102.0	102.5	103.0	103.0	105.0	105.0	104.0	103.0	103.5	103.0	103.0	102.0	100.5	99.0	99.0	99.0	98.5	98.5	98.5	100.0	100.0	101.0	102.0
CHANNEL A	U AMPS	25.2	25.4	25.6	25.6	26.0	26.0	25.8	25.8	25.7	25.6	25.5	25.5	25.0	24.6	24.6	24.5	24.5	24.9	24.9	24.7	24.8	25.2	25.4
CHANNEL A	AMPS	75.6	76.2	76.8	76.8	78.0	78.0	77.4	77.4	77.1	76.8	76.5	76.5	75.0	73.8	73.8	73.5	73.5	73.2	73.2	74.1	74.4	75.6	76.2
TIME	2004	2104	2204	2304	0004	0104	0204	0304	0404	0504	0604	0704	0804	0904	1004	1104	1204	1304	1404	1504	1604	1704	1804	1904
CHANNEL B	%	102.5	102.0	102.5	102.5	104.0	105.0	103.0	104.0	105.0	105.0	105.0	105.6	103.0	102.0	102.0	102.0	101.0	100.25	100.0	101.5	101.5	102.5	102.5
CHANNEL B	U AMPS	48.1	48.2	48.4	48.3	49.2	49.5	49.0	49.0	49.2	49.8	49.8	49.6	49.7	48.3	48.6	48.6	48.2	48.1	48.0	48.2	48.3	48.3	48.6
CHANNEL B	AMPS	96.2	96.4	96.8	96.6	98.4	99.0	98.0	98.0	98.4	99.6	99.6	99.2	98.2	96.60	97.2	97.2	96.4	96.2	96.0	96.4	96.6	96.6	97.2
TIME	2005	2105	2205	2305	0005	0105	0205	0305	0405	0505	0605	0705	0805	0905	1005	1105	1205	1305	1405	1505	1605	1705	1805	1905
CHANNEL C	%	100.0	99.0	98.0	97.5	98.0	98.0	97.0	97.5	98.0	99.0	100.0	101.0	101.0	100.5	101.25	102.0	102.0	102.0	102.5	102.0	101.5	100.0	100.0
CHANNEL C	U AMPS	26.6	26.2	25.9	25.8	25.8	25.5	25.7	25.7	25.6	25.8	26.0	26.3	26.3	26.4	26.7	26.9	26.9	26.9	26.7	26.8	26.8	26.8	26.5
CHANNEL C	AMPS	95.76	94.32	93.24	92.98	92.98	91.90	92.52	92.52	92.16	92.88	93.6	94.68	94.68	95.04	96.12	96.84	96.84	96.84	96.12	96.48	96.48	96.48	95.4
TIME	2005	2105	2205	2305	0005	0105	0205	0305	0405	0505	0605	0705	0805	0905	1005	1105	1205	1305	1405	1505	1605	1705	1805	1905
CHANNEL D	%	107.5	106.0	105.5	105.0	106.0	105.0	104.0	103.0	103.5	104.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.5	106.5	107.5	107.0	107.5	106.5
CHANNEL D	U AMPS	56.1	55.7	55.2	55.0	55.1	55.1	55.0	55.0	54.8	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.9	56.1	56.1	56.1	56.0
CHANNEL D	AMPS	83.31	82.72	82.97	82.68	81.82	81.82	81.67	81.67	81.38	81.67	81.67	81.67	81.67	82.42	81.82	82.42	82.42	82.42	83.01	83.31	83.31	83.31	83.16
TIME	2005	2105	2205	2305	0005	0105	0205	0305	0405	0505	0605	0705	0805	0905	1005	1105	1205	1305	1405	1505	1605	1705	1805	1905
FLUX TIME INTEGR	2103.5	2104.5	2105.4	2106.4	2107.4	2108.4	2109.4	2110.4	2111.4	2112.4	2113.4	2114.4	2115.4	2116.4	2117.4	2118.4	2119.4	2120.4	2121.4	2122.4	2123.4	2124.4	2125.4	2126.4
TOTAL F.F.P.H.	1.0	1.0	0.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.9	1.0	1.0	1.0	0.9	1.0	1.0	0.9
AVERAGE OF POWER LEVEL	103.0	102.4	102.25	102.0	103.25	103.25	102.0	101.62	102.25	102.75	103.25	103.25	102.9	101.6	101.56	102.0	102.0	101.75	101.81	102.75	102.6	102.9	102.9	102.9

SUBJECT DL-5-225 SHEET NO. 16
REACTIVITY LIFETIME TEST
HOURLY READING
CONTROLLED BY TESTREW CHECKED BY _____ DATE 10/6 to 7/58

FORM GAT-7112

TABLE I (CONT'D)

[illegible]

17

HOARLY READING

TEST CREW

10/7-8/58

TABLE I (CONT'D)

59

DUQUESNE LIGHT COMPANY
 POWER STATION DEPARTMENT
 SHIPPINGPORT DIVISION
 SUBJECT DL-5-225 SHEET NO. 18
 REACTIVITY LIFETIME TEST
 HOURLY READING
 TEST (REN) CHECKED BY _____ DATE 10-8 to 10-9-58

TABLE I (CONT'D)

	DATE	10-8	10-8	10-8	10-8	10-8	10-8	10-8	10-8	10-8	10-8	10-8	10-8	10-8	10-8	10-8	10-8	10-8	10-9	10-9	10-9	10-9	10-9	10-9
	TIME	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2030	2100	2130	2200	2230	2300	2330	2400	0030	0100	0200	0300	0400
MAIN GEN INTEGRATOR		43378	43941	44350	44792	45240	45714	46209	46719	47249	47799	48364	48944	49539	50149	50774	51414	52069	52739	53424	54124	54844	55584	56344
TIME		1101	1201	1301	1401	1501	1601	1701	1801	1901	2001		2101	2201	2301		2401	0001		0101	0201	0301	0401	
No. 1 STAFF INTEGR		89573	89614	89656	89697	89738	89780	89821	89862	89903	89944		89985	90025	90068		90109		90150	90190	90231	90272		
TIME		1102	1202	1302	1402	1502	1602	1702	1802	1902	2002		2102	2202	2302		2402	0002		0102	0202	0302	0402	
138 KV TFMR INTEGR		00931	00972	01012	01061	01108	01152	01197	01242	01285	01329		01373	01418	146.1		01501		01551	01593	01640	01684		
GEN. OUTPUT FROM INTEG		69.0	69.2	69.2	69.0	68.8	68.9	69.0	69.0	68.3	68.7		68.5	68.5	68.6		68.5		68.9	68.9	68.9	68.9		
NET STA. OUTPUT FROM INT.		60.9	61.0	60.2	61.0	60.1	60.0	60.6	60.2	59.9	60.3		59.9	60.0	60.0		59.8		60.4	60.7	60.1	60.3		
TIME		1103	1203	1303	1403	1503	1603	1703	1803	1903	2003		2103	2130	2203	2230	2303	2330	0003	0030	0103	0203	0303	0403
MAIN GEN. INDICATOR		71.0	71.0	70.9	70.6	70.6	70.9	70.9	70.3	70.2	70.9	70.2	70.3	70.5	70.4	70.4	70.3	70.6	70.6	70.8	70.7	70.8	70.8	70.3
NET STA. OUTPUT IND.		60.1	60.1	60.0	60.0	60.0	60.0	60.0	59.8	59.5	60.0		59.5	59.8	59.6		59.9		60.0	60.0	60.0	60.0		
LINEAR LEVEL POWER LEVEL																								
TIME		1103	1203	1303	1403	1503	1603	1703	1803	1903	2003	2030	2103	2130	2203	2230	2303	2330	0003	0030	0103	0203	0303	0403
CHANNEL	A	%	97.0	97.5	98.0	99.5	100.0	101.5	102.5	103.0	103.0	105.0	103.5	103.5	104.0	104.0	103.5	103.5	103.0	103.0	102.5	102.5	100.5	100.0
CHANNEL	A	U AMPS	24.4	24.5	24.6	25.8	25.0	25.3	25.6	26.7	26.7	26.2	26.0	26.0	26.1	26.0	26.0	25.9	25.9	25.9	25.8	25.7	25.5	25.2
CHANNEL	A	AMPS	23.2	23.5	23.8	27.9	25.0	25.9	26.8	28.1	28.1	28.6	28.0	28.0	28.3	28.0	27.7	27.7	27.7	27.4	27.1	26.5	25.6	25.0
TIME		1104	1204	1304	1404	1504	1604	1704	1804	1904	2004	2031	2104	2131	2204	2231	2304	2331	0004	0031	0104	0204	0304	0404
CHANNEL	B	%	99.5	99.5	99.0	98.5	99.5	100.0	100.5	100.5	100.5	103.0	102.0	102.5	103.0	103.0	103.0	103.5	103.5	104.5	104.5	104.0	103.0	103.0
CHANNEL	B	U AMPS	47.5	47.5	47.2	47.2	47.2	47.9	48.2	48.1	48.1	49.0	48.7	48.7	49.0	49.0	49.0	49.0	49.2	49.2	49.2	49.2	49.1	48.9
CHANNEL	B	AMPS	95.0	95.0	94.4	94.4	94.4	95.8	96.9	96.2	96.2	98.0	97.4	97.4	98.0	98.0	98.0	98.0	98.4	98.4	98.4	98.4	98.2	97.8
TIME		1104	1204	1304	1404	1504	1604	1704	1804	1904	2004	2031	2104	2131	2204	2231	2304	2331	0004	0031	0104	0204	0304	0404
CHANNEL	C	%	102.0	102.0	101.0	100.0	99.5	98.0	97.5	96.5	95.0	96.0	94.5	94.0	94.0	94.5	94.5	95.0	95.0	95.5	96.0	96.5	97.5	98.0
CHANNEL	C	U AMPS	26.8	26.6	26.7	26.5	25.8	25.8	25.8	25.5	25.0	25.3	25.0	24.9	24.9	24.9	24.7	24.8	24.8	24.9	24.9	24.8	25.4	26.4
CHANNEL	C	AMPS	96.4	95.7	96.1	95.9	92.8	92.8	92.9	91.8	90.0	91.1	90.0	89.6	89.6	89.6	89.9	89.3	89.3	89.6	89.6	89.3	91.4	92.2
TIME		1105	1205	1305	1405	1505	1605	1705	1805	1905	2005	2032	2105	2132	2205	2232	2305	2332	0005	0032	0105	0205	0305	0405
CHANNEL	D	%	105.5	107.0	107.0	106.5	105.0	105.5	105.5	109.0	102.5	103.0	101.5	101.5	102.0	101.5	101.0	101.0	101.0	101.0	101.0	102.0	102.0	103.5
CHANNEL	D	U AMPS	56.0	56.0	56.0	55.6	55.2	55.5	55.6	55.5	53.6	54.0	53.2	53.2	53.2	53.2	53.1	52.9	53.0	53.0	53.0	53.2	53.8	54
CHANNEL	D	AMPS	83.16	83.16	83.16	82.57	81.97	82.92	82.6	82.92	79.6	80.2	79.0	79.0	79.0	79.0	78.6	78.7	78.7	78.7	79.0	79.3	79.6	80.19
TIME		1105	1205	1305	1405	1505	1605	1705	1805	1905	2005		2105		2205		2305		0005		0105	0205	0305	0405
FLUX TIME INTEG		2165.9	2166.3	2167.2	2168.2	2169.1	2170.1	2171.1	2172.0	2173.0	2174.0		2175.0		2176.0		2177.9		2177.9		2178.9	2179.9	2180.9	2181.9
TOTAL EFPH		1.0	0.9	0.9	1.0	0.9	1.0	1.0	0.9	1.0	1.0		1.0		1.0		0.9		1.0		1.0	1.0	1.0	1.0
AVERAGE POWER LEVEL %		101.0	101.5	101.3	101.1	101.0	101.25	101.5	101.0	100.2	101.75	100.37	100.37	100.75	100.5	100.6	100.6		100.75	101.12	101.12	101.5	100.9	101.6

19

DL

PS

SAP

10-9-58 To 10-

TABLE I

DATE		P-9																10-9															
TIME		0500	0600	0700	0800	0900	0920	1000	1030	1100	1130	1200	1230	1300	1330	1400	1500	1600	1700	1800	1830	1900	1930	2000									
MAIN GEN. INTEGRATOR		4410.0	446.79	4474.5	4485.9	4489.7	—	4495.1	—	4503.2	—	4508.5	—	4516.2	—	4523.7	4530.7	4536.8	4543.8	4550.9	—	4557.3	—	4565.3									
TIME		0501	0601	0701	0801	0901	—	1001	—	1101	—	1201	—	1301	—	1401	1501	1601	1701	1801	—	1901	—	2001									
NO. I STA. IFMR. INTEGR.		9031.3	9035.5	9039.8	9043.9	9048.1	—	9052.0	—	9056.2	—	9060.2	—	9064.5	—	9068.8	9072.8	9076.9	9081.1	9085.1	—	9089.3	—	9093.1									
TIME		0502	0602	0702	0802	0902	—	1002	—	1102	—	1202	—	1302	—	1402	1502	1602	1702	1802	—	1902	—	2002									
138 KV. TFMR. INTEGR.		0172.5	0177.0	0181.7	0185.9	0190.5	—	0194.9	—	0199.4	—	0203.6	—	0208.7	—	0212.9	0216.9	0221.6	0225.8	0230.3	—	0234.8	—	0239.2									
GEN. OUTPUT FROM INT.		68.5	68.9	68.6	68.4	68.8	—	68.4	—	69.1	—	69.3	—	69.7	—	69.5	69.0	69.1	68.8	68.8	—	68.9	—	69.0									
NET STA. OUTPUT FROM INT.		60.3	60.1	59.7	60.2	59.9	—	60.1	—	60.4	—	60.9	—	60.5	—	60.9	60.5	60.5	60.4	60.3	—	60.2	—	60.8									
TIME		0503	0603	0703	0803	0903	0930	1003	1030	1103	—	1203	—	1303	—	1403	1503	1603	1703	1803	—	1903	—	2003									
MAIN GEN. INDICATOR		70.5	70.4	70.3	70.2	71.1	71.3	71.0	71.0	71.0	71.1	71.1	71.6	71.5	71.1	71.0	71.0	70.7	70.3	70.7	70.8	70.5	70.8	70.8									
NET STA. OUTPUT IND.		60.0	59.8	59.7	59.8	60.2	—	60.2	—	60.2	—	60.2	—	60.8	—	60.1	60.1	60.1	60.0	60.1	—	60.1	—	60.1									
LINEAR LEVEL		POWER LEVEL																															
TIME		0503	0603	0703	0803	0903	0930	1003	1030	1103	1130	1203	1230	1303	1330	1403	1503	1603	1703	1803	1830	1903	1930	2003									
CHANNEL A	%	98.5	98.0	97.0	96.5	97.5	98.0	97.5	98.0	98.0	98.0	98.5	99.5	100.0	99.5	99.5	100.0	101.5	101.5	102.5	104.5	105.0	105.0	105.0									
CHANNEL A	u AMPS	24.8	24.6	24.4	24.2	24.4	24.6	24.5	24.5	24.5	24.6	24.7	25.0	25.1	25.0	25.0	25.3	25.5	25.5	25.9	25.9	25.9	25.9	25.9									
CHANNEL A	AMPS	74.4	73.8	73.2	72.6	73.2	73.8	73.5	73.5	73.5	73.8	74.1	75.0	75.3	75.0	75.0	75.9	76.5	76.5	77.7	77.7	77.7	77.7	77.7									
TIME		0504	0604	0704	0804	0904	0931	1004	1031	1104	1131	1204	1231	1304	1331	1404	1504	1604	1704	1804	—	1904	—	2004									
CHANNEL B	%	101.5	100.0	99.0	98.5	99.5	100.0	99.0	99.0	99.0	99.0	99.0	100.0	100.0	100.5	100.0	100.0	102.0	102.0	104.0	104.0	104.5	104.5	105.0									
CHANNEL B	u AMPS	48.1	47.8	47.3	47.0	47.5	47.8	47.2	47.2	47.2	47.2	47.1	47.5	47.5	47.2	47.2	47.5	47.9	47.9	48.2	48.2	48.9	48.9	48.9									
CHANNEL B	AMPS	96.2	95.6	94.6	94.0	95.0	95.6	94.9	94.4	94.4	94.4	94.2	95.0	95.0	94.4	94.4	95.0	95.8	95.8	96.4	96.8	97.6	97.8	97.8									
TIME		0504	0604	0704	0804	0904	0931	1004	1031	1104	1131	1204	1231	1304	1332	1404	1504	1604	1704	1804	—	1904	—	2004									
CHANNEL C	%	100.0	101.0	101.0	101.5	103.0	103.0	102.0	102.5	102.0	102.0	101.0	102.0	101.0	100.0	98.5	97.0	97.0	96.0	95.0	93.0	92.5	92.5	92.5									
CHANNEL C	u AMPS	26.4	26.4	26.5	26.5	26.8	26.8	26.8	27.0	26.9	26.9	26.8	26.8	26.8	26.1	26.0	25.9	25.5	25.3	25.3	24.8	24.8	24.8	24.8									
CHANNEL C	AMPS	95.04	95.04	95.4	95.4	96.96	96.46	96.48	97.20	96.84	96.84	96.48	96.48	96.48	93.96	93.6	93.09	91.8	91.05	91.08	89.28	89.28	89.28	89.28									
TIME		0505	0605	0705	0805	0905	0932	1005	1032	1105	1132	1205	1232	1305	1332	1405	1505	1605	1705	1805	—	1905	—	2005									
CHANNEL D	%	103.5	104.5	104.5	105.0	107.5	108.5	102.0	108.0	105.0	108.0	107.5	108.0	108.0	102.5	102.5	102.0	101.0	101.0	100.5	100.0	100.0	100.0	99.5									
CHANNEL D	u AMPS	5.42	5.45	5.48	5.50	5.62	5.69	5.63	5.68	5.65	5.65	5.62	5.68	5.65	5.59	5.58	5.51	5.49	5.50	5.39	5.39	5.32	5.32	5.30									
CHANNEL D	AMPS	80.5	80.9	81.28	81.68	83.46	84.50	83.41	84.35	83.90	82.90	83.46	84.35	83.90	73.01	82.86	81.82	81.53	81.68	80.04	80.04	79.00	79.00	78.71									
TIME		0505	0605	0705	0805	0905	—	1005	—	1105	—	1205	—	1305	—	1405	1505	1605	1705	1805	—	1905	—	2005									
FLUX TIME INTEGR.		21829	21829	21848	21857	21867	—	21877	—	21886	—	21895	—	21905	—	21915	21924	21934	21944	21953	—	21963	—	21973									
TOTAL EFPH		1.0	1.0	0.9	0.9	1.0	—	1.0	—	0.9	—	0.9	—	1.0	—	1.0	0.9	1.0	1.0	0.9	—	1.0	—	1.0									
AVERAGE POWER LEVEL		100.9	100.8	100.38	100.28	101.9	102.37	101.6	101.8	101.75	101.75	101.5	102.0	102.3	100.9	100.12	99.75	100.6	100.1	100.9	100.9	100.5	100.5	100.5									

SHEET NO. 20

DATE 10-9-58

SUBJECT DL-5-225 SERIAL NO. 21
 DL COUNTY REACTIVITY LIFETIME
 PS DEPARTMENT
 SAPS DIVISION COMPLETED BY Test Group CHECKED BY DATE 10-10-58

TABLE I

	DATE	10-10-58	10-11-58
TIME	1400 1500 1600 1700 1730 1800 1830 1900 1930 2000 2030 2100 2130 2200 2230 2300 2330	2400 0100 0200 0300 0400 0500	
MAIN GEN. INTEGRATOR	468854 469542 470232 470911 471597 472284 472972 473658 474345 475033 475721 476409 477097 477785 478473 479161 479849		
TIME	1401 1501 1601 1701 1801 1901 2001 2101 2201 2301	0001 0101 0201 0301 0401 0501	
NO. I STA. TFRM INTEGR	91674 91715 91757 91798 91839 91880 91919 91959 92000 92041 92082 92122 92165 92206 92245 92289 92329		
TIME	1402 1502 1602 1702 1802 1902 2002 2102 2202 2302	0002 0102 0202 0302 0402 0502	
138 K.V. TFRM INTEGR.	03189 03231 03279 03321 03363 03404 03445 03487 03529 03570 03611 03652 03693 03734 03775 03816 03857		
GEN. OUTPUT FROM INT.	69.1 68.8 69.0 67.9 68.6 68.7 68.8 68.6 68.7 68.8 68.7 68.8 68.8 68.8 68.8 68.8 68.8		
NET STA. OUTPUT FROM INT.	59.9 60.5 60.0 59.6 60.3 59.8 60.7 60.1 60.3 60.2 60.2 60.3 60.2 60.2 60.2 60.2 60.2		
TIME	1403 1503 1603 1703 1803 1903 2003 2103 2203 2303	0003 0103 0203 0303 0403 0503	
MAIN GEN. INDICATOR	71.0 70.6 70.4 70.2 70.4 70.3 70.4 70.7 70.6 70.5 70.2 70.3 70.5 70.6 70.5 70.5 70.5		
NET STA. OUTPUT IND.	60.3 60.0 59.8 59.8 59.9 59.9 59.9 60.0 60.0 60.0 60.0 60.0 60.0 60.0 60.0 60.0 60.0		
LINEAR LEVEL			
TIME	1403 1503 1603 1703 1730 1803 1830 1903 1930 2003 2030 2103 2130 2203 2230 2303 2330	0003 0103 0203 0303 0403 0503	
CHANNEL A	% 102.5 102.0 102.0 104.0 105.0 105.5 105.5 105.5 105.5 105.5 105.5 105.5 105.5 105.5 105.5 105.5 105.5		
"	U AMPS 25.4 25.5 25.5 25.7 25.9 26.0 26.0 26.0 26.0 26.0 25.9 26.0 25.9 25.7 25.6 25.5 25.5		
"	AMPS 76.2 76.5 76.5 77.1 77.7 78.0 78.0 78.0 78.0 78.0 77.7 78.0 77.4 77.1 76.8 76.5 76.5		
TIME	1404 1504 1604 1704 1730 1804 1904 2004 2104 2204 2304	0004 0104 0204 0304 0404 0504	
CHANNEL B	% 102.5 103.0 103.5 105.0 105.5 106.5 107.0 107.5 107.5 107.5 108.0 108.5 108.5 108.5 108.5 108.5 108.5		
"	U AMPS 47.5 47.8 48.0 48.2 48.9 49.0 49.0 49.0 49.5 49.8 49.9 49.9 49.9 49.9 49.9 49.9 49.9		
"	AMPS 95.0 95.6 96.0 96.4 97.8 98.0 98.0 98.0 98.0 99.0 99.6 99.8 99.8 99.8 99.8 99.8 99.8		
TIME	1404 1504 1604 1704 1730 1804 1904 2004 2104 2204 2304	0004 0104 0204 0304 0404 0504	
CHANNEL C	% 99.5 97.5 97.0 95.5 95.5 96.0 95.5 96.0 96.0 96.0 96.5 97.0 97.5 97.5 98.5 99.0 99.5		
"	U AMPS 25.7 25.4 24.8 24.6 24.5 24.6 24.4 24.5 24.5 24.4 24.4 24.4 24.5 24.5 24.6 25.0 25.6		
"	AMPS 92.5 91.4 89.2 88.5 88.2 88.5 87.8 88.2 88.2 87.8 87.8 87.8 88.2 88.2 88.5 90.0 92.1		
TIME	1405 1505 1605 1705 1730 1805 1905 2005 2105 2205 2305	0005 0105 0205 0305 0405 0505	
CHANNEL D	% 104.5 103.5 101.5 100.0 100.0 100.0 100.0 100.0 99.5 99.5 99.5 100.0 100.0 100.0 100.5 101.0 101.5		
"	U AMPS 5.5 5.4 5.3 5.3 5.2 5.2 5.2 5.2 5.2 5.2 5.2 5.2 5.2 5.2 5.2 5.2 5.2		
"	AMPS 81.8 80.4 79.4 78.7 78.5 78.5 78.5 77.5 77.5 77.2 77.2 77.2 77.2 77.2 77.2 77.2 77.2		
TIME	1405 1505 1605 1705 1805 1905 2005 2105 2205 2305	0005 0105 0205 0305 0405 0505	
FLUX TIME INTEGR.	2215.0 2215.9 2220.2 2221.1 2227.1 2227.7 2228.1 2228.1 2228.1 2228.1 2228.1 2228.1 2228.1 2228.1 2228.1 2228.1 2228.1		
TOTAL E FPH	1.0 0.9 1.1 1.7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0		
AVERAGE POWER LEVEL	102.3 101.8 101.2 101.5 101.5 102.0 102.0 102.2 102.2 102.2 102.2 102.2 102.2 102.2 102.2 102.2 102.2 102.2		

[illegible]

TABLE I

SUBJECT DL-S-225 SHEET NO. 23

DUQUESNE LIGHT COMPANY REACTIVITY LIFETIME TEST

POWER STATIONS DEPARTMENT HOURLY READINGS

SHIPPING PORT APS. DIV. SIGN. COMPILED BY _____ CHECKED BY _____ DATE 10-11-58

FOAM 628-2112

TABLE I

DATE		10-11										10-12-98													
TIME		1937	2000	2033	2100	2130	2200	2230	2300	2330	0000	0100	0130	0200	0230	0300	0330	0400	0430	0500	0530	0600	0630		
MAIN GEN INTEGRATOR			489453		490138		490830		491528		492213		492900		493582		494262		494916		49561		496314		
TIME			2001		2101		2201		2301		0001		0101		0201		0301		0401		0501		0601		
No. 1 STA TMR INT.			92988		92949		92991		93031		93073		93114		93157		93199		93239		93282		93320		
TIME			2002		2102		2202		2302		0002		0102		0202		0302		0402		0502		0602		
138 KV TMR INTEGR.			04513		04557		04602		04641		04689		04732		04778		04820		04865		04911		04954		
GEN OUTPUT FROM INTEG.			68.8		68.5		69.2		69.3		69.0		68.7		68.2		68.0		68.4		68.5		68.3		
NET STA OUTPUT FROM INT.			59.7		60.0		60.5		61.4		60.0		60.3		59.3		59.6		59.9		59.6		60.2		
TIME			2003		2103	2133	2203	2230	2303	2333	0003	0033	0103	0130	0203		0303		0403		0503		0603		
MAIN GEN INDICATOR			70.7	70.9	70.3	70.9	71.0	71.0	71.0	71.0	70.8	70.3	70.0	7.0	69.9	69.8	70.2	70.1	70.2	70.2	70.1	70.0	70.1		
NET STA OUTPUT IND.			60.0	60.0	59.8	60.0	60.0	60.0	60.2	60.2	60.0	59.8	59.3	59.2	59.0	59.0	59.4	59.5	59.8	59.5	59.6	59.2	59.4		
LINEAR LEVEL POWER LEVEL																									
TIME		1937	2003	2033	2103	2131	2203	2231	2303	2333	0003	0033	0103	0130	0203	0230	0303	0330	0403	0430	0503	0530	0603	0630	
CHANNEL	A	%	108.0	107.5	107.5	107.5	106.5	106.0	105.0	103.5	103.0	102.5	101.0	99.5	98.5	97.5	97.5	97.5	97.5	96.5	95.5	95.0	95.0	96.5	96.5
CHANNEL	A	u AMPS	26.2	26.4	26.0	25.8	25.8	25.6	25.4	25.1	24.8	24.6	24.4	24.2	24.0	23.8	23.8	23.7	23.5	23.4	23.5	23.5	23.5	23.5	
CHANNEL	A	AMPS	28.6	29.2	28.0	27.9	27.9	26.6	26.2	25.3	24.4	23.8	23.2	22.6	22.0	21.4	21.4	20.1	20.5	20.2	20.5	20.5	20.5	20.5	
TIME			2004	2034	2104	2134	2204	2234	2304	2334	0004	0034	0104	0131	0204	0231	0304	0331	0404	0431	0504	0531	0604	0631	
CHANNEL	B		104.5	102.5	100.5	100.5	101.0	102.0	102.5	102.5	102.0	102.0	102.0	101.5	101.5	102.0	103.5	104.0	103.5	103.5	104.0	103.5	103.0	104.0	
CHANNEL	B		47.0	46.1	46.2	46.6	46.9	46.9	46.8	46.8	46.5	46.5	46.5	46.5	46.5	46.8	47.2	47.3	47.2	47.2	47.5	47.3	47.5	47.3	
CHANNEL	B		54.0	52.2	52.4	53.2	53.7	53.8	53.6	53.6	53.0	53.0	53.0	53.0	53.0		54.4	54.6	54.4	54.4	55.0	54.6	55.0	54.6	
TIME			2004	2034	2104	2132	2204	2232	2304	2334	0004	0034	0104	0131	0204	0231	0304	0331	0404	0431	0504	0531	0604	0631	
CHANNEL	C		97.5	97.0	97.5	97.5	98.0	99.5	100.0	100.0	100.0	100.5	101.0	101.0	101.0	101.5	102.5	103.0	103.0	102.5	102.5	102.5	102.5	102.5	
CHANNEL	C		24.7	24.6	24.7	25.0	25.3	25.4	25.5	25.6	25.7	25.7	25.7	25.7	25.7	25.8	26.2	26.4	26.4	26.6	26.6	26.6	26.6	26.6	
CHANNEL	C		88.92	88.88	88.90	90.0	91.1	91.4	91.8	92.2	92.52	92.52	92.52	92.52	92.52	92.52	92.58	94.32	95.02	95.02	95.16	95.16	95.16	95.16	
TIME			2005	2035	2105	2132	2205	2232	2305	2335	0005	0035	0105	0132	0205	0232	0305	0332	0405	0432	0505	0532	0605	0632	
CHANNEL	D		102.0	103.0	105.0	104.5	105.5	106.5	106.5	106.5	107.0	107.0	105.0	105.0	104.0	103.0	103.0	103.5	103.5	102.5	102.0	102.0	101.0	102.0	
CHANNEL	D		54.0	55.0	55.0	55.3	55.8	55.8	56.0	56.0	56.0	56.0	55.2	55.0	54.8	54.2	54.2	54.2	54.2	53.9	53.5	53.4	53.30	53.3	
CHANNEL	D		80.49	81.68	81.7	82.1	82.9	82.9	83.2	83.20			81.68	81.38	80.49	80.49	80.49	80.49	80.49	79.45	79.30	78.71	79.00	79.15	
TIME			2005		2105		2205		2305		0005		0105		0205		0305		0405		0505		0605		
FLUX TIME INTEG.			22444		22458		22468		22478		22488		22497		22507		22517		22527		22537		22546		
TOTAL EFPH			1.1		0.9		1.0		1.0		1.0		0.9		1.0		1.0		1.0		1.0		0.9		
AVG POWER LEVEL		%	103.0	102.5	102.6	102.5	102.8	103.5	103.5	103.1	103.0	103.0	102.3	101.9	101.3	100.8	101.0	101.8	102.0	101.4	100.9	100.9	100.5	101.3	101.3

5W

TABLE I

[illegible]

Avg of Power Level 101.4 101.6 101.75 102.0 101.9 102.1 101.9 102.6 102.2 102.2 101.7 101.2 101.0 101.1 101.5 101.6 101.6 101.6 101.6 102.4 102.37 102.37 102.37

SUBJECT DL 5-225 SHEET NO. 25

REACTIVITY LIFETIME

HOURLY READINGS

COMPILED BY TEST GROUP CHECKED BY 10-12-58 DATE 10-13-58

TABLE I

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DL-S-225 Section I Page 26
Reactivity Lifetime
Test Group 10-13-58

TABLE I

[illegible]

D.L
P.S
SAPS

TABLE I

Date	16-14-58																									
Time	0900	0900	1000	1030	1100	1130	1200	1230	1300	1330	1400	1430	1500	1530	1552	1555	1600	1608	1612	1615	1616	1620	1623	1630	1631	
Main Gen. Integrator	53090.6	53149.7	53211.0	53283.2	53322.7	53357.5	53392.0	53426.5	53461.0	53495.3	-	53529.8	-	53564.3	-	53598.8	-	53633.3	-	53667.8	-	53702.3	-	53736.8	-	53771.3
Time	0901	0901	1001	1031	1101	1131	1201	1231	1301	1331	1401	-	1501	-	1601	-	1701	-	1801	-	1901	-	2001	-	2101	-
No. 1 Sta. Tfrmr. Integr.	9538.0	9541.9	9546.0	9548.2	9550.1	9552.1	9554.1	9556.3	9558.5	9560.4	9562.4	-	9564.6	-	9566.8	-	9569.0	-	9571.2	-	9573.4	-	9575.6	-	9577.8	-
Time	0902	0902	1002	1032	1102	1132	1202	1232	1302	1332	1402	-	1502	-	1602	-	1702	-	1802	-	1902	-	2002	-	2102	-
135 KVA Tfrmr. Integr.	0715.6	0719.9	0724.1	0728.5	0732.9	0737.3	0741.7	0746.1	0750.5	0754.9	0759.3	-	0763.7	-	0768.1	-	0772.5	-	0776.9	-	0781.3	-	0785.7	-	0790.1	-
Gen. Output from Integr.	69.3	69.1	69.3	-	69.2	-	69.3	-	69.0	-	68.8	-	69.0	-	69.2	-	69.4	-	69.6	-	69.8	-	70.0	-	70.2	-
Net Sta. Output from Integr.	60.6	60.9	61.0	-	60.3	-	61.3	-	60.1	-	60.5	-	60.5	-	60.5	-	60.5	-	60.5	-	60.5	-	60.5	-	60.5	-
Time	0903	0903	1003	1033	1103	1133	1203	1233	1303	1333	1403	-	1503	-	1603	-	1703	-	1803	-	1903	-	2003	-	2103	-
Main Gen. Indicator	70.9	71.0	71.2	70.8	70.9	71.0	71.0	70.9	70.8	70.3	70.1	70.0	71.0	71.0	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	
Net Sta. Output Indici.	60.1	60.2	60.5	60.0	60.2	60.3	60.3	60.2	59.9	59.9	59.6	-	60.2	-	60.2	-	60.2	-	60.2	-	60.2	-	60.2	-	60.2	-
Linear Power Level																										
Time	0903	0903	1003	1033	1103	1133	1203	1233	1303	1333	1403	1433	1503	1530	1552	1555	1602	1608	1612	1615	1616	1620	1623	1630	1631	
Channel A	%	100.5	103.0	105.5	105.0	107.0	107.0	107.0	108.0	108.0	107.5	107.5	108.5	101.0	98.0	98.0	97.0	97.5	98.5	99.5	97.5	99.0	100.0	101.0	98.0	100.0
"	4 Amps	24.5	25.0	25.5	25.4	26.0	26.0	26.0	26.4	26.4	26.2	26.2	26.5	24.6	24.0	23.9	23.6	23.8	24.0	24.3	23.7	24.3	24.5	24.7	24.0	24.5
"	Amps	73.5	75.0	76.5	76.2	75.0	75.0	75.0	79.2	79.2	78.6	78.6	79.5	73.8	72.0	71.7	70.8	71.4	72.0	72.9	71.1	72.9	73.5	74.1	72.0	73.5
Time	0904	0904	1004	1034	1104	1134	1204	1234	1304	1334	1404	1434	1504	1534	1552	1555	1602	1608	1612	1615	1616	1620	1623	1630	1631	
Channel B	%	103.0	103.0	103.5	102.0	102.5	102.0</																			

10-14-58

TABLE I

[illegible]

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REACTIVITY LIFETIME TEST

HOURLY READING

TEST (REW) DATE 10-15 to 10-16

TABLE I.

	DATE	10-15	10-15	10-15	10-15	10-15	10-15	10-15	10-15	10-15	10-15	10-15	10-15	10-15	10-15	10-15	10-15	10-15	10-15	10-15	10-15	10-15	10-16		
	TIME	0600	0700	0800	0830	0900	0930	1000	1030	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	0100	
MAIN GEN. INTEGRATOR		54596.6	54465.3	54733.8	-	54802.5	-	54871.6	-	54940.5	55009.2	55078.1	55147.3	55216.4	55285.1	55353.9	55422.8	55491.7	55560.2	55629.4	55698.9	55768.4	55837.7	55907.2	
	TIME	0601	0701	0801	-	0901	-	1001	-	1101	1201	1301	1401	1501	1601	1701	1801	1901	2001	2101	2201	2301	2401	0101	
No. I STA TMR. INTEG.		9629.0	9633.2	9637.3	-	9641.7	-	9645.6	-	9649.7	9653.7	9658.1	9662.2	9666.3	9670.2	9674.3	9678.9	9682.7	9686.9	9691.1	9695.1	9699.5	9703.4	9707.9	
	TIME	0602	0702	0802	-	0902	-	1002	-	1102	1202	1302	1402	1502	1602	1702	1802	1902	2002	2102	2202	2302	2402	0102	
138 KV TMR. INTEGRATOR		0811.8	0816.2	0820.6	-	0825.1	-	0829.6	-	0834.0	0838.2	0842.6	0847.0	0851.4	0855.8	0860.0	0864.6	0869.0	0873.2	0877.8	0882.1	0886.5	0891.1	0895.5	
GEN. OUTPUT FROM INTEG.		68.6	68.7	68.5	-	68.7	-	69.1	-	68.9	68.7	68.9	69.2	69.1	68.7	68.8	68.9	68.9	68.5	68.2	68.5	68.2	68.6	68.7	
NET STA. OUTPUT FROM INT.		59.9	60.1	60.0	-	59.8	-	60.5	-	60.4	60.5	60.1	60.7	60.6	60.9	60.5	59.7	60.6	60.2	59.9	60.2	59.9	60.1	60.0	
	TIME	0603	0703	0803	-	0903	-	1003	-	1103	1203	1303	1403	1503	1603	1703	1803	1903	2003	2103	2203	2303	2403	0103	
MAIN GEN. INDICATOR		70.8	70.3	70.3	70.6	70.7	70.7	70.7	70.8	70.5	70.2	70.8	71.0	70.6	70.5	70.8	70.8	70.7	70.0	70.0	70.0	70.0	70.2	70.2	70.5
NET STA. OUTPUT IND.		60.0	59.9	60	-	59.9	-	60.0	-	60.0	60.6	60.0	60.2	59.7	59.9	60.0	60.0	60.0	59.3	59.7	59.6	59.9	59.8	59.9	
LINEAR LEVEL POWER LEVEL																									
	TIME	0603	0703	0803	0830	0904	0930	1004	1030	1104	1204	1304	1404	1504	1604	1704	1804	1903	2003	2103	2203	2303	2403	0103	
CHANNEL A	%	102.5	102.5	102.5	102.5	102.5	102.5	103.0	103.0	102.0	101.0	102.0	102.0	100.5	100.0	100.0	100.0	99.0	98.0	98.0	98.0	98.0	98.5	100.0	
CHANNEL A U	AMPS	24.9	24.9	24.9	24.9	25.0	25.0	25.2	25.0	25.0	24.5	24.9	24.8	24.5	24.9	24.5	24.9	24.2	24.0	24.0	24.0	24.0	24.3	24.4	
CHANNEL A	AMPS	73.7	73.7	74.7	74.7	75.0	75.0	75.6	75.0	75.0	73.5	74.7	74.4	73.5	73.2	73.5	73.2	72.6	72.0	72.0	72.0	72.0	72.9	73.2	
	TIME	0604	0704	0804	0831	0904	0931	1004	1031	1104	1204	1304	1404	1504	1604	1704	1804	1904	2004	2104	2204	2304	2404	0104	
CHANNEL B	%	103.0	102.5	102.0	102.0	102																			

SUBJECT OL-S-225 Sect I SHEET NO. 30

Duquesne Light Company Reactivity Lifetime Test

Power Station PART 2: Hourly Readings

SAPS DIVISION COMPILED BY TEST CREW CHECKED BY _____ DATE 10-16-70

FOIA 682-7112

DATE	10-16	10-16	10-16	10-16	10-16	10-16	10-16	10-16	10-16	10-16	10-16	10-16	10-16	10-16	10-16	10-16	10-16	10-16	10-16	10-16				
Time	0300	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	
MAIN GEN. INTEGR.	559715	558010	561090	561783	562476	563165	563858	564551	565242	565933	566624	567315	568006	568697	569388	570079	570770	571461	572152	572843	573534	574225	574916	575607
Time	0201	0301	0401	0501	0601	0701	0801	0901	1001	1101	1201	1301	1401	1501	1601	1701	1801	1901	2001	2101	2201	2301	2401	
No. 1 STA. THRU INTEGR.	971189	971589	971989	972389	972789	973189	973589	973989	974389	974789	975189	975589	975989	976389	976789	977189	977589	977989	978389	978789	979189	979589	979989	980389
Time	0302	0302	0402	0502	0602	0702	0802	0902	1002	1102	1202	1302	1402	1502	1602	1702	1802	1902	2002	2102	2202	2302	2402	
138 K.V. TFHA. INTEGRATOR	0899.80	0904.80	0909.80	0914.80	0919.80	0924.80	0929.80	0934.80	0939.80	0944.80	0949.80	0954.80	0959.80	0964.80	0969.80	0974.80	0979.80	0984.80	0989.80	0994.80	0999.80	1004.80	1009.80	1014.80
GEN. OUTPUT FROM INTE.	68.8	68.8	68.8	68.9	69.3	69.3	69.3	69.9	68.7	68.7	68.8	68.6	68.8	68.8	68.9	68.8	68.8	68.9	68.8	68.6	68.6	68.8	68.4	68.4
NET STA. OUTPUT FROM INTE.	60.4	60.4	60.4	60.9	66.8	66.4	60.4	60.4	60.4	59.6	60.1	60.4	59.3	59.6	60.1	60.3	59.9	60.0	60.0	60.1	60.4	59.4	59.4	59.6
Time	0203	0303	0403	0503	0603	0703	0803	0903	1003	1103	1203	1303	1403	1503	1603	1703	1803	1903	2003	2103	2203	2303	2403	
MAIN GEN. INDICATOR	70.7	70.6	70.9	71.0	71.0	70.5	70.5	70.7	70.4	70.3	70.7	70.7	70.8	70.8	70.5	70.7	70.1	70.7	70.2	70.2	70.2	70.0	70.8	
NET STA. OUTPUT INDIC.	60.0	60.0	60.0	60.0	60.0	59.7	59.4	59.9	59.8	59.9	59.9	59.9	60.0	60.0	60.0	59.9	59.9	59.9	59.9	59.9	59.9	59.4	60.1	
LINEAR LEVEL	Power Level																							
Time	0203	0303	0403	0503	0603	0703	0803	0903	1003	1103	1203	1303	1403	1503	1603	1703	1803	1903	2003	2103	2203	2303	2403	
Channel A	To	100.0	100.5	101.5	102.5	103.0	102.0	102.0	102.0	101.5	101.0	102.0	101.5	101.5	101.0	100.0	99.0	98.5	98.0	97.5	98.0	98.0	98.0	100.0
"	AMPs	24.5	24.6	24.8	24.9	25.0	24.9	24.9	24.9	24.4	24.5	24.7	24.7	24.7	24.7	24.4	24.2	24.0	24.0	24.1	24.0	24.0	24.5	
"	AMPs																							

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[illegible]

DL-S-225 33
REACTIVITY LIFETIME TEST
HOURLY READING
TEST CREW 10-18-58

[illegible]

SUBJECT DL-S-225 SHEET NO 34

DUQUESNE LIGHT COMPANY

POWER STATIONS

S.A.P.S.

Test Group

DATE 10-19-58

TABLE I

DATE	10-19	10-19	10-19	10-19	10-19	10-19	10-19	10-19	10-20	10-20	10-20	10-20	10-20	10-20	10-20	10-20	10-20	10-20	10-20	10-20	10-20	10-20	10-20	10-20	10-20	10-20	10-20
TIME	1600	1700	1800	1900	2000	2100	2200	2300	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600		
MAIN GEN. INTEG.	61872.1	61961.0	62030.0	62098.8	62167.6	62236.5	62305.3	62374.2	62443.1	62511.9	62580.6	62649.5	62718.8	62788.0	62857.1	62925.9	62994.5	63062.9	63131.3	63199.5	63267.1	63336.9	63405.8	63474.8	63543.8		
TIME	1601	1701	1801	1901	2001	2101	2201	2301	0001	0101	0201	0301	0401	0501	0601	0701	0801	0901	1001	1101	1201	1301	1401	1501	1601		
NO. 1 STA. TEMR. INTEG.	00678.0	00711.7	00758.0	00805.0	00852.0	00898.3	00942.5	00986.7	01030.9	01075.0	01119.1	01163.0	01207.3	01251.4	01295.6	01339.3	01383.7	01427.9	01472.0	01516.2	01560.2	01604.5	01648.6	01692.8	01736.8		
TIME	1602	1702	1802	1902	2002	2102	2202	2302	0002	0102	0202	0302	0402	0502	0602	0702	0802	0902	1002	1102	1202	1302	1402	1502	1602		
138 KV. TEMR. INTEG.	1277.3	1281.7	1286.0	1290.4	1294.9	1299.0	1303.7	1308.0	1312.4	1317.0	1321.2	1325.6	1330.0	1334.3	1338.9	1343.0	1347.9	1351.9	1356.2	1360.6	1364.9	1369.5	1373.9	1378.2	1382.7		
GEN. OUTPUT FROM INT.	68.6	69.9	69.0	68.8	68.8	68.9	68.8	68.9	68.9	68.8	68.7	68.9	69.3	69.2	69.1	68.8	68.6	68.4	68.4	68.2	68.6	68.8	68.9	69.0	69.0		
NET. STA. OUTPUT FROM INT.	59.8	60.6	60.6	60.1	60.4	60.5	59.9	60.4	60.3	60.1	60.4	60.6	60.6	60.8	60.3	60.5	60.3	59.7	60.1	59.5	60.3	59.9	60.4	60.5	60.5		
TIME	1603	1703	1803	1903	2003	2103	2203	2303	0003	0103	0203	0303	0403	0503	0603	0703	0803	0903	1003	1103	1203	1303	1403	1503	1603		
MAIN GEN. INDICATOR	70.8	70.9	70.9	70.6	70.6	70.6	70.9	70.9	70.5	70.0	70.3	70.5	71.0	70.9	70.5	70.5	70.2	70.1	70.1	70.2	70.1	70.7	70.9	70.8	70.8		
NET STA. OUTPUT IND.	60.0	60.0	60.0	59.9	60.0	60.0	60.0	60.0	60.0	60.0	59.8	60.1	60.2	60.2	60.0	60.0	59.9	59.9	59.6	59.7	59.9	59.9	60.0	60.0	59.9		
LINEAR POWER LEVEL																											
TIME	1603	1703	1803	1903	2003	2103	2203	2303	0003	0103	0203	0303	0403	0503	0603	0703	0803	0903	1003	1103	1203	1303	1403	1503	1603		
CHANNEL A	100.0	100.5	101.0	100.0	101.5	102.0	102.5	103.0	103.0	103.5	103.5	105.0	105.5	105.0	104.0	102.5	102.5	102.0	101.0	100.0	100.0	100.0	100.5	101.0	100.0		
" " AMPS	23.9	23.9	23.9	23.2	24.0	24.0	24.2	24.4	24.5	24.5	24.5	24.5	24.6	24.6	24.5	24.4	24.0	24.0	23.6	23.6	23.6	23.6	23.9	23.8	23.7		
" " AMPS	71.7	71.7	71.7	69.6	92.0	72.0	72.6	73.2	73.5	73.5	73.5	73.5	73.8	73.8	73.5	73.2	72.0	72.0	70.8	70.8	70.8	70.8	71.7	71.4	71.1		
TIME	1604	1704	1804	1904	2004	2104	2204	2304	0004	0104	0204	0304	0404	0504	0604	0704	0804	0904	1004	1104	1204	1304	1404	1504	1604		
CHANNEL B	107.0	107.0	107.0	105.5	106.0	105.0	105.5	105.0	105.0	104.5	103.5	105.0	104.5	103.5	103.0	102.5	102.0	102.5	102.5	103.0	104.0	105.0	106.0	106.0	106.0		
" " AMPS	46.8	47.0	47.0	47.0	46.9	46.8	46.8	46.8	46.1	46.0	45.8	46.0	46.0	46.0	45.8	45.2	45.5	45.6	45.6	45.8	45.9	46.0	46.6	46.8	46.8		
" " AMPS	93.6	94.0	94.0	94.0	93.8	93.6	93.6	93.6	92.2	92.0	91.6	92.0	92.0	92.0	91.6	90.4	91.0	91.2	91.2	91.6	91.8	92.0	93.2	93.6	93.6		
TIME	1604	1704	1804	1904	2004	2104	2204	2304	0004	0104	0204	0304	0404	0504	0604	0704	0804	0904	1004	1104	1204	1304	1404	1504	1604		
CHANNEL C	103.0	103.0	103.0	102.0	101.5	100.5	101.0	100.0	100.0	99.5	99.0	100.0	100.0	99.5	99.5	99.0	99.5	100.0	100.0	110.5	101.0	102.0	102.5	102.5	102.5		
" " AMPS	25.3	25.3	25.3	25.1	25.1	24.8	24.7	24.6	24.5	24.4	24.3	24.3	24.3	24.4	24.1	24.1	24.1	24.4	24.5	24.3	24.9	24.7	25.1	25.1	25.2		
" " AMPS	91.08	91.08	91.08	90.36	90.36	89.28	88.92	88.56	88.20	87.84	87.48	87.48	87.48	87.84	86.76	86.76	86.76	87.84	88.20	87.48	87.84	88.92	90.36	90.36	90.22		
TIME	1605	1705	1805	1905	2005	2105	2205	2305	0005	0105	0205	0305	0405	0505	0605	0705	0805	0905	1005	1105	1205	1305	1405	1505	1605		
CHANNEL D	103.0	103.0	103.0	102.5	102.5	102.5	103.0	103.0	103.0	103.5	104.0	105.0	105.0	105.0	105.0	104.5	104.0	104.0	103.0	103.0	103.0	103.0	103.0	102.5	102.5		
" " AMPS	5.20	5.20	5.20	5.17	5.17	5.17	5.20	5.20	5.20	5.21	5.22	5.30	5.30	5.32	5.30	5.29	5.26	5.21	5.20	5.20	5.20	5.19	5.20	5.18	5.18		
" " AMPS	77.22	77.22	77.22	76.77	76.77	76.77	77.22	77.22	77.22	77.37	77.52	78.71	78.71	79.00	78.71	78.56	78.11	77.37	77.22	77.22	77.22	77.07	77.22	76.92	76.92		
TIME	1605	1705	1805	1905	2005	2105	2205	2305	0005	0105	0205	0305	0405	0505	0605	0705	0805	0905	1005	1105	1205	1305	1405	1505	1605		
FLUX TIME INTEGR.	2431.8	2432.8	2433.8	2434.9	2436.0	2437.0	2438.0	2439.0	2440.9	2441.9	2442.9	2443.9	2445.0	2446.0	2447.0	2447.9	2448.9	2449.9	2450.9	2451.9	2452.9	2453.9	2454.9	2455.9			
Total EFPH	1.1	1.0	1.0	1.1	1.1	1.0	1.0	1.0	0.9	1.0	1.0	1.0	1.0	1.1	1.0	1.0	0.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
AVG. OF PL	102.25	103.4	102.5	102.5	102.9	102.5	103.0	102.8	102.75	102.75	102.9	103.75	103.25	102.88	102.73	102.0	102.1	101.6	101.6	102.0	102.5	103.3	102.8	102.75			

SAH

SUBJECT DL-5-225 SHEET NO. 35
JUQUETTE LIGHT COMPANY REACTIVITY LIFETIME
POWER STATIONS DEPARTMENT
S.A.P.S. DIVISION COMPILED BY TEST GROUP CHECKED BY DATE 10-20-58

TABLE I

DATE	10-20	10-20	10-20	10-20	10-20	10-20	10-20	10-21	10-21	10-21	10-21	10-21	10-21	10-21	10-21	10-21	10-21	10-21	10-21
TIME	1700	1800	1900	2000	2100	2200	2300	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100
MAIN GEN. WTS	63612.4	63681.2	63750.2	63819.2	63887.9	63956.3	64024.7	64093.4	64162.2	64231.0	64299.8	64368.4	64437.4	64506.4	64575.2	64644.2	64713.2	64782.2	64851.2
TIME	1701	1801	1901	2001	2101	2201	2301	0001	0101	0201	0301	0401	0501	0601	0701	0801	0901	1001	1101
No. 1 STA TMR INTEG	0171.0	0175.1	0179.1	0183.3	0187.8	0191.8	0195.9	0200.0	0204.2	0208.5	0212.3	0216.6	0220.6	0224.8	0229.0	0233.2	0237.4	0241.6	0245.8
TIME	1702	1802	1902	2002	2102	2202	2302	0002	0102	0202	0302	0402	0502	0602	0702	0802	0902	1002	1102
138 KV TMR INTEG	1386.9	1391.5	1396.0	1400.3	1404.8	1409.2	1413.6	1418.0	1422.3	1426.8	1431.1	1435.5	1440.0	1444.3	1448.8	1453.2	1457.6	1462.0	1466.4
GEN. OUTPUT FROM INT.	68.2	68.8	69.0	69.0	68.7	68.4	68.4	68.7	68.8	68.8	68.8	68.6	68.6	69.0	69.0	68.8	68.8	68.8	68.8
NET STA. OUTPUT FROM INT.	59.8	60.1	60.2	60.8	59.7	60.0	59.9	60.2	60.3	60.0	60.7	59.9	60.5	60.5	60.1	60.1	60.1	60.1	60.1
TIME	1703	1803	1903	2003	2103	2203	2303	0003	0103	0203	0303	0403	0503	0603	0703	0803	0903	1003	1103
MAIN GEN. INDICATOR	70.8	70.9	71.0	70.3	70.3	70.3	70.3	70.5	70.6	70.3	70.3	70.2	70.8	70.8	70.6	70.6	70.6	70.6	70.6
NET STA. OUTPUT IND	59.9	60.0	60.0	59.7	60.0	59.9	59.8	59.9	60.0	60.0	59.7	60.0	60.2	60.0	60.0	60.0	60.0	60.0	60.0
LINEAR POWER LEVEL	1703	1803	1903	2003	2103	2203	2303	0003	0103	0203	0303	0403	0503	0603	0703	0803	0903	1003	1103
CHANNEL A	100.0	101.0	101.0	100.5	101.0	102.0	103.0	104.5	102.0	104.5	104.5	102.5	105.0	105.0	104.5	104.0	105.0	105.0	105.0
" " 4 AMPS	23.6	23.9	24.0	24.0	24.0	24.1	24.2	24.5	24.5	24.5	24.5	24.6	24.6	24.6	24.5	24.5	24.4	24.5	24.5
" " AMPS	70.8	71.7	72.0	72.0	72.0	72.3	72.6	73.5	73.5	73.5	73.5	73.8	73.8	73.8	73.5	73.5	73.5	73.8	73.8
TIME	1704	1804	1904	2004	2104	2204	2304	0004	0104	0204	0304	0404	0504	0604	0704	0804	0904	1004	1104
CHANNEL B	106.0	106.5	106.5	105.0	105	104.0	103.0	103.0	102.5	102.5	102.5	102.5	102.5	102.0	101.5	101.5	102.0	102.0	102.5
" " 4 AMPS	46.8	47.0	47.6	46.5	46.3	46.2	46.0	46.0	46.0	46.2	46.0	45.8	45.8	45.7	45.7	45.6	45.6	45.6	45.7
" " AMPS	93.6	94.0	94.6	93.0	92.6	92.4	92.0	92.0	92.0	92.4	92.0	91.6	91.6	91.4	91.4	91.2	91.2	91.2	91.5
TIME	1704	1804	1904	2004	2104	2204	2304	0004	0104	0204	0304	0404	0504	0604	0704	0804	0904	1004	1104
CHANNEL C	102.0	102.5	102.6	100.5	100.0	99.5	99.0	99.0	98.5	98.5	98.5	98.5	98.5	98.0	98.5	98.5	98.5	99.0	99.5
" " 4 AMPS	25.1	25.2	25.1	24.9	24.4	24.3	24.0	24.1	24.1	24.2	24.3	24.8	24.8	24.8	24.4	24.5	24.5	24.2	24.2
" " AMPS	90.36	90.72	90.36	89.64	87.84	87.48	86.76	86.76	87.12	87.48	87.84	88.20	88.20	87.12	87.12	87.12	87.12	87.12	87.48
TIME	1705	1805	1905	2005	2105	2205	2305	0005	0105	0205	0305	0405	0505	0605	0705	0805	0905	1005	1105
CHANNEL D	102.0	102.5	102.5	102.0	102.0	102.5	102.5	103.5	104.0	104.0	103.5	103.5	103.5	103.5	104.0	104.0	104.5	104.5	105.0
" " 4 AMPS	5.14	5.18	5.13	5.13	5.13	5.13	5.13	5.21	5.21	5.22	5.22	5.25	5.25	5.22	5.25	5.25	5.28	5.30	5.30
" " AMPS	76.33	76.92	76.18	76.18	76.18	76.18	76.18	77.37	77.37	77.52	77.52	77.96	77.96	77.52	77.52	77.96	78.41	78.71	78.71
TIME	1705	1805	1905	2005	2105	2205	2305	0005	0105	0205	0305	0405	0505	0605	0705	0805	0905	1005	1105
Four TIME INTEGR	2457.0	2458.6	2458.0	2460.1	2461.1	2462.1	2463.1	2464.1	2465.1	2466.1	2467.1	2468.1	2469.1	2470.0	2471.0	2472.0	2473.0	2474.0	2475.0
TOTAL EFPH	1.1	1.0	1.0	1.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
AVG. 70 PL	102.50	103.12	103.0	102.0	102.0	102.0	102.0	102.5	101.75	102.50	102.25	102.0	102.5	102.38	102.13	101.63	101.85	102.38	102.38

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Hourly Readings

Test Group

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TABLE I

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SUBJECT DL-S-225 SHEET NO. 37
 COMPANY REACTIVITY LIFETIME TEST
 DEPARTMENT HOURLY READINGS
 S.A.P.S. DIVISION TEST GROUP DATE 10/22/58

TABLE I

	DATE	10-22	10-22	10-22	10-22	10-22	10-22	10-22	10-22	10-22	10-22	10-22	10-22	10-22	10-22	10-22	10-22	10-23	10-23	10-23	10-23	10-23			
	TIME	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	0000	0100	0200	0300	0400
MAIN GEN. INTEG.		66090.0	66159.0	66228.0	66297.0	66365.7	66434.8	66503.9	66573.1	66642.1	66710.9	66779.2	66848.0	66916.6	66985.7	67054.7	67123.6	67192.3	67260.7	67329.4	67397.9	67466.7	67535.0	67603.6	67672.9
	TIME	0501	0601	0701	0801	0901	1001	1101	1201	1301	1401	1501	1601	1701	1801	1901	2001	2101	2201	2301	0001	0101	0201	0301	0401
No.1 STA. T.F.M.R. INTEG.		0319.9	0324.0	0328.0	0332.0	0336.1	0340.2	0344.5	0348.8	0352.8	0356.1	0360.5	0364.9	0369.4	0373.5	0377.7	0381.8	0385.9	0390.0	0394.1	0398.3	0402.3	0406.5	0410.9	0414.9
	TIME	0502	0602	0702	0802	0902	1002	1102	1202	1302	1402	1502	1602	1702	1802	1902	2002	2102	2202	2302	0002	0102	0202	0302	0402
138 KV T.F.M.R. INTEG.		1545.7	1550.0	1554.3	1558.7	1563.1	1567.6	1571.9	1576.4	1580.8	1585.3	1589.7	1594.1	1598.6	1603.1	1607.3	1611.8	1616.2	1620.9	1625.1	1629.7	1634.0	1638.4	1643.0	1647.4
GEN. OUTPUT FROM INTEG.		68.9	69.0	69.0	69.0	68.7	69.1	69.1	69.2	68.8	69.0	68.3	68.6	68.8	69.1	69.0	68.9	68.7	68.4	68.7	68.5	68.8	69.3	68.6	68.8
NET STA. OUTPUT FROM INTEG.		60.3	60.6	60.7	60.4	60.9	60.5	60.5	60.9	60.2	60.5	59.6	60.1	60.2	60.5	60.6	60.3	60.2	59.6	60.4	59.7	60.5	59.7	59.6	60.4
	TIME	0503	0603	0703	0803	0903	1003	1103	1203	1303	1403	1503	1603	1703	1803	1903	2003	2103	2203	2303	0003	0103	0203	0303	0403
MAIN GEN. INDIC.		71.0	70.5	70.5	70.8	70.3	71.0	71.0	71.0	70.3	70.8	70.8	70.2	70.8	71.0	70.7	70.8	70.7	70.6	70.7	70.5	70.3	70.5	70.9	70.9
NET STA. OUTPUT INDIC.		60.2	60.0	60.1	60.0	59.9	60.1	60.1	60.2	59.8	60.0	60.0	59.9	60.1	60.1	60.0	60.0	60.0	59.9	59.9	59.7	59.8	59.7	59.9	60.2
LINEAR POWER LEVEL		0503	0603	0703	0803	0903	1003	1103	1203	1303	1403	1503	1603	1703	1803	1903	2003	2103	2203	2303	0003	0103	0203	0303	0403
CHAN. A		%	102.5	102.5	101.5	100.0	98.5	99.0	99.0	98.0	98.5	98.5	99.5	100.5	101.0	101.0	102.0	102.0	102.5	102.0	101.5	100.5	101.0	101.0	101.5
	"	MAmps	24.4	24.1	24.1	23.7	23.7	23.7	23.7	23.7	23.4	23.6	23.4	23.6	22.7	23.8	23.8	24.0	24.0	24.2	24.2	24.2	24.1	24.2	24.2
	"	Amps	73.2	72.3	72.3	71.1	71.1	71.1	71.1	71.1	70.2	70.8	70.2	70.8	68.1	71.4	71.4	72.0	72.0	72.6	72.6	72.6	72.6	72.3	72.3
	TIME	0504	0604	0704	0804	0904	1004	1104	1204	1304	1404	1504	1604	1704	1804	1904	2004	2104	2204	2304	0004	0104	0204	0304	0404
CHAN. B		%	102.0	102.5	103.0	102.5	102.5	103.5	105.0	104.5	105.5	105.0	104.5	105.5	105.0	104.0	103.5	102.5	102.5	101.5	100.5	100.0	99.5	100.0	101.5
	"	MAmps	45.2	45.2	45.6	45.5	45.2	46.1	46.5	46.8	46.0	46.3	46.5	46.2	46.6	46.2	46.0	45.8	45.3	45.4	45.0	44.8	44.8	44.8	45.0
	"	Amps	90.4	90.4	91.2	91.0	90.9	92.2	93.0	93.6	92.0	92.6	93.0	92.4	93.2	92.4	92.0	91.6	90.6	90.8	90.0	89.6	89.6	89.6	90.0
	TIME	0504	0604	0704	0804	0904	1004	1104	1204	1304	1404	1504	1604	1704	1804	1904	2004	2104	2204	2304	0004	0104	0204	0304	0404
CHAN. C		%	98.5	99.5	100.0	100.0	100.0	101.0	101.5	102.0	101.0	101.5	101.0	100.5	100.5	100.0	99.0	98.5	97.5	97.0	96.5	96.5	96.5	97.0	98.0
	"	MAmps	24.1	24.1	24.4	24.5	24.5	24.6	24.9	25.0	24.8	24.9	24.8	24.8	24.7	24.3	24.2	24.0	23.8	23.8	23.7	23.7	23.6	23.8	23.8
	"	Amps	86.76	86.76	87.84	88.20	88.20	88.52	89.69	90.0	89.28	89.64	89.64	89.3	89.3	88.92	87.98	87.12	86.40	85.68	85.68	85.32	85.32	85.32	85.68
	TIME	0505	0605	0705	0805	0905	1005	1105	1205	1305	1405	1505	1605	1705	1805	1905	2005	2105	2205	2305	0005	0105	0205	0305	0405
CHAN. D		%	103.5	104.0	104.0	102.5	102.0	102.5	102.5	102.0	101.0	101.8	101.0	101.5	102.5	102.0	102.0	102.5	102.0	102.5	102.5	102.0	102.0	102.5	102.5
	"	MAmps	5.19	5.18	5.18	5.12	5.06	5.20	5.20	5.19	5.10	5.13	5.10	5.08	5.1	5.10	5.10	5.10	5.10	5.17	5.17	5.15	5.15	5.19	5.20
	"	Amps	77.07	76.92	76.92	76.03	75.19	77.22	77.22	77.07	75.74	76.18	75.74	75.44	75.74	75.74	75.74	75.74	76.77	76.77	76.48	76.48	76.48	77.07	77.22
	TIME	0505	0605	0705	0805	0905	1005	1105	1205	1305	1405	1505	1605	1705	1805	1905	2005	2105	2205	2305	0005	0105	0205	0305	0405
FLUX TIME INTEG.		2493.9	2494.0	2495.0	2495.9	2496.9	2497.9	2498.9	2499.9	2500.0	2501.0	2502.0	2503.0	2504.0	2505.0	2506.0	2507.0	2508.0	2509.0	2510.0	2510.9	2511.9	2512.9	2513.9	2514.9
TOTAL EFPH		.9	1.1	1.0	0.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.9	1.1	.9	1.0	1.0	1.0	
AVG % Power		101.63	102.13	102.13	101.3	100.6	101.5	102.0	102.0	101.1	101.8	101.4	101.5	102.15	102.0	101.5	101.6	101.0	101.25	100.75	100.13	99.75	99.75	100.13	100.88

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REACTIVITY LIFETIME
HOURLY READINGS
TEST GROUP 10-23-58

TABLE I

DATE	10-23	10-23	10-23	10-23	10-23	10-23	10-23	10-23	10-23	10-23	10-23	10-23	10-23	10-23	10-23	10-23	10-23	10-24	10-24	10-24	10-24	10-24	10-24	10-24	
TIME	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	0000	0100	0200	0300	0400	0500
MAIN GEN. INTEG.	67411.7	67811.1	67880.0	67419.0	68018.4	68081.4	68156.4	68224.8	68293.4	68362.0	68430.6	68500.0	68569.5	68639.2	68709.1	68778.2	68846.7	68914.7	68982.8	69051.6	69120.4	69189.8	69257.9	69325.7	69394.0
TIME	0501	0601	0701	0801	0901	1001	1101	1201	1301	1401	1501	1601	1701	1801	1901	2001	2101	2201	2301	0001	0101	0201	0301	0401	0501
* I STA. TMR. INTEG.	0419.0	0423.0	0427.1	0431.3	0435.3	0439.7	0443.8	0447.9	0451.8	0455.9	0459.9	0464.2	0468.2	0472.5	0476.5	0480.7	0484.8	0489.0	0493.0	0497.3	0501.4	0505.5	0509.4	0513.7	0518.0
TIME	0502	0602	0702	0802	0902	1002	1102	1202	1302	1402	1502	1602	1702	1802	1902	2002	2102	2202	2302	0002	0102	0202	0302	0402	0502
138 KV TMR. INTEG.	1651.9	1656.1	1660.7	1665.1	1669.5	1673.9	1678.1	1682.7	1686.9	1691.5	1695.6	1700.5	1704.8	1709.2	1713.6	1718.0	1722.3	1726.8	1731.2	1735.7	1740.0	1744.4	1749.0	1753.2	1757.9
GEN. OUTPUT (INTEG.)	69.3	69.4	68.9	68.6	69.7	69.1	69.0	68.4	68.6	68.6	68.6	69.4	69.5	69.7	69.9	69.1	68.5	68.0	68.1	68.3	68.8	68.4	68.4	68.5	69.3
NET STA. OUTPUT (INTEG.)	60.7	61.2	60.2	60.2	61.2	60.3	60.7	59.7	60.5	59.9	60.5	60.2	61.2	61.0	61.5	60.5	60.1	59.3	59.7	60.0	60.4	59.9	59.9	60.0	59.3
TIME	0503	0603	0703	0803	0903	1003	1103	1203	1303	1403	1503	1603	1703	1803	1903	2003	2103	2203	2303	0003	0103	0203	0303	0403	0503
MAIN GEN. INDIC.	71.0	70.5	70.5	71.0	71.0	70.3	70.3	70.2	70.4	70.9	71.2	71.5	71.7	71.3	70.8	70.0	69.9	70.0	70.6	70.5	69.5	70.0	70.2	70.0	70.0
NET STA. OUTPUT INDIC.	60.5	60.0	60.1	60.0	60.2	60.2	60.0	60.0	59.9	60.0	60.0	60.5	60.7	61.0	60.5	60.0	59.2	59.3	59.9	59.9	60.2	59.0	59.9	59.9	59.7

LINEAR POWER LEVEL

CHAN A	TIME	0503	0603	0703	0803	0903	1003	1103	1203	1303	1403	1503	1603	1703	1803	1903	2003	2103	2203	2303	0003	0103	0203	0303	0403	0503
"	%	101.0	100.0	99.5	99.0	99.0	98.5	97.5	97.5	97.5	98.0	99.5	100.0	101.5	102.5	101.5	100.0	100.0	101.5	101.5	99.0	100.0	99.0	99.0	98.5	98.5
"	μ Amp	24.1	23.8	23.7	23.6	23.6	23.4	23.3	23.3	23.2	23.3	23.6	24.8	24.2	24.4	24.2	24.0	23.8	23.8	24.1	24.2	24.1	23.5	23.7	23.7	23.5
"	Amp	12.3	11.4	11.1	11.1	11.1	10.2	69.9	69.9	69.6	69.9	71.1	74.4	72.6	73.2	72.6	72.0	71.4	71.4	72.3	72.6	72.3	70.5	71.1	71.1	70.5
CHAN B	TIME	0504	0604	0704	0804	0904	1004	1104	1204	1304	1404	1504	1604	1704	1804	1904	2004	2104	2204	2304	0004	0104	0204	0304	0404	0504
"	%	102.5	101.5	102.0	102.5	102.5	104.0	103.5	103.5	104.0	105.0	105.0	106.5	107.0	105.0	102.5	100.0	99.5	101.5	100.5	101.0	98.5	100.0	100.0	100.0	100.0
"	μ Amp	45.1	45.0	45.1	45.8	45.9	46.1	45.8	45.9	45.8	45.9	46.2	46.5	46.8	46.9	46.0	45.0	44.3	44.0	44.6	44.8	44.9	43.7	44.1	44.5	44.3
"	Amp	90.2	90.0	90.2	91.6	91.8	92.2	91.6	91.8	91.6	91.5	92.4	93.0	93.6	93.8	92.0	90.0	88.6	88.0	89.2	89.6	89.8	87.4	88.2	89.0	88.6
CHAN C	TIME	0504	0604	0704	0804	0904	1004	1104	1204	1304	1404	1504	1604	1704	1804	1904	2004	2104	2204	2304	0004	0104	0204	0304	0404	0504
"	%	99.0	98.5	99.5	100.0	100.5	101.0	100.0	100.5	100.0	100.0	100.0	100.5	101.0	101.0	99.5	98.0	96.0	95.5	97.0	97.0	97.5	95.0	97.5	97.5	97.5
"	μ Amp	23.9	24.1	24.8	24.5	24.8	24.8	24.7	24.8	24.6	24.5	24.5	24.6	24.7	24.7	24.4	23.8	23.1	23.1	23.6	24.0	24.0	23.4	23.6	24.0	24.0
"	Amp	86.04	86.76	89.28	88.2	89.28	89.28	88.92	89.28	88.56	88.20	88.28	88.56	88.92	88.92	87.84	85.68	83.16	83.16	84.96	86.4	86.8	84.24	84.92	86.4	86.4
CHAN D	TIME	0505	0605	0705	0805	0905	1005	1105	1205	1305	1405	1505	1605	1705	1805	1905	2005	2105	2205	2305	0005	0105	0205	0305	0405	0505
"	%	103.5	102.5	102.0	102.0	102.0	101.5	100.0	100.0	100.0	100.5	101.0	102.0	103.0	102.0	101.5	100.0	100.5	102.0	102.5	103.0	100.5	101.5	101.5	101.0	101.0
"	μ Amp	5.21	5.16	5.14	5.14	5.12	5.09	5.03	5.02	5.01	5.01	5.03	5.10	5.15	5.20	5.17	5.10	5.05	5.07	5.13	5.15	5.20	5.08	5.11	5.10	5.09
"	Amp	11.37	16.63	16.33	16.23	16.03	15.59	14.70	14.55	14.40	14.40	14.70	15.74	16.47	17.22	16.77	15.74	14.99	15.29	16.18	16.48	17.22	15.44	15.88	15.74	15.59
FLUX TIME INTEG.	TIME	0505	0605	0705	0805	0905	1005	1105	1205	1305	1405	1505	1605	1705	1805	1905	2005	2105	2205	2305	0005	0105	0205	0305	0405	0505
TOTAL E.F.P.H.		2516.9	2517.8	2518.8	2519.8	2520.8	2521.8	2522.8	2523.8	2524.8	2525.8	2526.8	2527.8	2528.8	2529.8	2530.9	2531.9	2532.9	2533.8	2534.8	2535.8	2536.8	2537.7	2538.7	2539.6	2540.6
		1.0	0.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.1	1.0	1.0	0.9	1.0	1.0	1.0	0.9	1.0	0.9	1.0
AVG % POWER		101.30	100.63	100.75	100.8	101.3	101.3	100.1	100.4	100.3	100.5	101.3	101.6	102.8	103.4	102.3	100.9	99.0	98.9	101.3	100.38	100.75	98.25	99.75	99.50	99.25

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FOIA b 7 - D

		TABLE I																			
		DATE	10-24	10-24	10-24	10-24	10-24	10-24	10-24	10-24	10-24	10-24	10-24	10-24	10-24	10-24	10-24	10-24	10-24	10-24	10-24
		TIME	0600	0700	0800	0831	0840	0855	0858	0910	0912	0930	0937	0945	1000	1030	1100	1122	1130	1200	1220
MAIN GEN INTEG.			6942A	69531.0	69599.0				69667D						6973.1		6978A6			69873.0	
		TIME	0601	0701	0801				0901						1001		1101			1201	
#1 STA. TFR INTEGR.			0522.0	0524.0	0530.1				0534.0						0538.4		0542.3			0546.9	
		TIME	0602	0702	0802				0902						1002		1102			1202	
) 8 KX TFR INTEG			1762.0	1766.4	1770.9				1775.2						1779.8		1784.0			1788.4	
GEN. OUTPUT (INTEG.)			68.4	68.6	68.0				68.8						69.1		68.5			65.4	
NET STA. OUTPUT (INTEG.)			60.3	60.2	59.4				59.8						60.1		60.4			56.4	
		TIME	0603	0703	0803				0903						1003		1103			1203	
MAIN GEN. INDIC.			70.0	70.2	70.2				70.0		D.8				70.3	70.3	70.3		70.3	70.2	70.0
NET STA. OUTPUT			60.0	59.7	59.8				59.2						60.0		60.0			59.8	

LINEAR POWER LEVEL

		TIME	0603	0713	0803											0903											1003	1103											1203											1303
CHAN	A	%	98.0	97.5	97.5	97.5	97.0	96.5	96.0	96.0	97.5	98.0	97.5	98.5	98.5	99.0	100.0	100.0	100.0	100.0	100.0	100.5	100.5	100.0	100.0	100.0	100.0	100.5	100.5	100.0	100.0	100.0	100.0	100.5	100.5	100.0	100.0													
"	"	PAMP	23.4	23.3	23.2											22.1											23.4	22.8											22.8											22.6
"	"	AMP	70.2	69.9	69.6											66.3											70.2	68.4											68.4											67.8
		TIME	0604	0704	0804											0904											1004	1104											1204											1304
CHAN	B	%	100.5	101.5	102.0	102.0	102.0	100.5	99.8	100.0	101.0	101.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.8	99.5	99.0	98.5	98.5	98.0	98.0	98.5	98.5	98.0	98.0	98.0	98.0	98.5	98.5	98.5	98.5														
"	"	PAMP	44.7	45.0	45.0											44.2											44.6	44.2											44.0											43.5
"	"	AMP	89.4	90.0	90.0											88.4											89.2	88.4											88.0											87.0
		TIME	0604	0704	0804											0904											1004	1104											1204											1304
CHAN	C	%	98.5	99.0	99.5	99.0	99.0	98.5	98.5	98.5	100.0	100.0	99.0	99.0	98.5	98.5	98.0	98.0	98.0	98.0	97.0	97.0	96.5	96.0	95.5	96.5	97.5	97.5	97.0	97.0	96.5	96.0	95.5	96.5	97.5	97.0														
"	"	PAMP	24.0	24.2	24.2											23.6											24.2	24.2											24.2											23.9
"	"	AMP	86.4	87.1	87.12											84.96											87.12	87.12											87.12											86.04
		TIME	0605	0705	0805											0905											1005	1105											1205											1305
CHAN	D	%	101.0	100.5	100.0	98.5	98.5	98.5	98.5	98.5	99.5	99.5	99.0	99.0	99.0	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.0	99.0	99.5	99.5	99.5	99.0	99.0	99.5	99.5	99.5	99.5	99.5	99.5														
"	"	PAMP	5.00	4.98	4.93											4.90											4.9	4.9											5.0											4.9
"	"	AMP	74.25	73.95	73.21											72.77											72.77	72.77											74.25											72.77
		TIME	0605	0705	0805											0905											1005	1105											1205											1305
FLUX		TIME INTEG	2541.6	2542.6	2543.5											2544.5											2545.5	2546.5											2547.5											2548.4
TOTAL E.P.P.H.			1.0	1.0	0.9											1.0											1.0	1.0											1.0											0.9

Avg	% Power
99.50	98.5
99.75	98.2
99.50	98.3
99.1	99.5
98.5	99.7
98.2	98.9
98.3	99.1
99.5	99.0
99.7	99.2
98.9	99.4
99.1	99.3
99.0	99.2
99.2	98.9
99.4	98.9
99.3	98.7
99.2	98.2
98.9	98.1
98.7	98.4
98.2	99.0
98.1	98.6

SAM

9-22-58 9-23-58

[illegible]

DL- S - 225 2
SECTION I
REACTIVITY LIFETIME TEST
9/23 - 9/24

[illegible]

GROUP I AVERAGE 18.6919

DL - S - 225 3
SECTION I
REACTIVITY LIFETIME TEST
9/24/58 - 9/25/58

Table II

[illegible]

D.L. COMPANY
P.S. DEPT-ONE
S.A.P.S. DIVISION

Reactivity Lifetime

DATE **9/25/58**

Table II

[illegible]

REACTIVITY LIFETIME TEST

DL

PS

SAPS

Table II

DATE	TIME	7/15/57	7/16/57	7/17/57	7/18/57	7/19/57	7/20/57	7/21/57	7/22/57	7/23/57	7/24/57	7/25/57	7/26/57	7/27/57	7/28/57	7/29/57	7/30/57	7/31/57	8/1/57	8/2/57	8/3/57	8/4/57	8/5/57	8/6/57	8/7/57	8/8/57	8/9/57	8/10/57	8/11/57	8/12/57	8/13/57	8/14/57	8/15/57	8/16/57	8/17/57	8/18/57	8/19/57	8/20/57	8/21/57	8/22/57	8/23/57	8/24/57	8/25/57	8/26/57	8/27/57	8/28/57	8/29/57	8/30/57	8/31/57	9/1/57	9/2/57	9/3/57	9/4/57	9/5/57	9/6/57	9/7/57	9/8/57	9/9/57	9/10/57	9/11/57	9/12/57	9/13/57	9/14/57	9/15/57	9/16/57	9/17/57	9/18/57	9/19/57	9/20/57	9/21/57	9/22/57	9/23/57	9/24/57	9/25/57	9/26/57	9/27/57	9/28/57	9/29/57	9/30/57	10/1/57	10/2/57	10/3/57	10/4/57	10/5/57	10/6/57	10/7/57	10/8/57	10/9/57	10/10/57	10/11/57	10/12/57	10/13/57	10/14/57	10/15/57	10/16/57	10/17/57	10/18/57	10/19/57	10/20/57	10/21/57	10/22/57	10/23/57	10/24/57	10/25/57	10/26/57	10/27/57	10/28/57	10/29/57	10/30/57	10/31/57	11/1/57	11/2/57	11/3/57	11/4/57	11/5/57	11/6/57	11/7/57	11/8/57	11/9/57	11/10/57	11/11/57	11/12/57	11/13/57	11/14/57	11/15/57	11/16/57	11/17/57	11/18/57	11/19/57	11/20/57	11/21/57	11/22/57	11/23/57	11/24/57	11/25/57	11/26/57	11/27/57	11/28/57	11/29/57	11/30/57	12/1/57	12/2/57	12/3/57	12/4/57	12/5/57	12/6/57	12/7/57	12/8/57	12/9/57	12/10/57	12/11/57	12/12/57	12/13/57	12/14/57	12/15/57	12/16/57	12/17/57	12/18/57	12/19/57	12/20/57	12/21/57	12/22/57	12/23/57	12/24/57	12/25/57	12/26/57	12/27/57	12/28/57	12/29/57	12/30/57	12/31/57
TOTAL F.W. FLOW INTER.		1108330	1108331	1108332	1108333	1108334	1108335	1108336	1108337	1108338	1108339	1108340	1108341	1108342	1108343	1108344	1108345	1108346	1108347	1108348	1108349	1108350	1108351	1108352	1108353	1108354	1108355	1108356	1108357	1108358	1108359	1108360	1108361	1108362	1108363	1108364	1108365	1108366	1108367	1108368	1108369	1108370	1108371	1108372	1108373	1108374	1108375	1108376	1108377	1108378	1108379	1108380	1108381	1108382	1108383	1108384	1108385	1108386	1108387	1108388	1108389	1108390	1108391	1108392	1108393	1108394	1108395	1108396	1108397	1108398	1108399	1108400	1108401	1108402	1108403	1108404	1108405	1108406	1108407	1108408	1108409	1108410	1108411	1108412	1108413	1108414	1108415	1108416	1108417	1108418	1108419	1108420	1108421	1108422	1108423	1108424	1108425	1108426	1108427	1108428	1108429	1108430	1108431	1108432	1108433	1108434	1108435	1108436	1108437	1108438	1108439	1108440	1108441	1108442	1108443	1108444	1108445	1108446	1108447	1108448	1108449	1108450	1108451	1108452	1108453	1108454	1108455	1108456	1108457	1108458	1108459	1108460	1108461	1108462	1108463	1108464	1108465	1108466	1108467	1108468	1108469	1108470	1108471	1108472	1108473	1108474	1108475	1108476	1108477	1108478	1108479	1108480	1108481	1108482	1108483	1108484	1108485	1108486	1108487	1108488	1108489	1108490	1108491	1108492							

DL-S-225 6.
SECTION I
REACTIVITY LIFETIME TEST
9/26/58 - 9/27/58

Table II

DATE

TIME

TOTAL F.W. Flow INTL.

TOTAL F.W. Flow (From INTL)

TOTAL F.W. Flow IND.

TIME

1A F.W. Flow INTER.

1A F.W. Flow (From INTER)

1A F.W. IND.

TIME

1B F.W. Flow INTER.

1B F.W. Flow (From INTER)

1B F.W. IND.

TIME

1C F.W. Flow INTER.

1C F.W. Flow (From INTER)

1C F.W. IND.

TIME

1D F.W. Flow INTER.

1D F.W. Flow (From INTER)

1D F.W. Flow IND

Rod Position

No. 21

No. 22

No. 23

No. 24

No. 61

No. 62

No. 63

No. 64

No. 41

No. 42

No. 43

No. 44

GROUP I AVERAGE

9/4/78

9/5/78

1815 1915 2015 2115 2215 2315 0015 0115 0215 0315 0415 0515 0615 0715 0815 0915 1015 1115 1215 1315 1415 1515

120140.0 120224.7 120255.6 120341.1 120406.8 120449.8 120523.5 120587.9 120642.2 120708.5 120767.9 120823.4 120879.4 120947.7 121016.4 121071.4 121132.0 121192.6 121255.9 121313.9 121374.3 121437.15 121497.15

877,902

877,968

93 93 92 92 92 92 92 92 88 92 92 92 92 93 93 92 92 92 92 92 92 92

1800 1900 2000 2100 2200 2300 2400 0100 0200 0300 0400 0500 0600 0700 0800 0900 1000 1100 1200 1300 1400 1500

132448.0 132505.8 132563.9 132621.8 132679.8 132736.5 132795.4 132853.1 132911.1 132968.6 133027.0 133085.5 133141.9 133199.6 133256.6 133315.7 133374.4 133432.7 133490.9 133549.0 133606.9 133664.8 133724.8

233,500

232,962

232 232 231 230 230 230 231 231 231 231 233 230 230 232 232 234 234 232 232 230 230 230 230

1801 1901 2001 2101 2201 2301 0001 0101 0201 0301 0401 0501 0601 0701 0801 0901 1001 1101 1201 1301 1401 1501

101448.1 101502.6 101557.5 101612.0 101666.9 101726.0 101775.9 101830.6 101885.1 101939.6 101994.7 102049.2 102103.5 102157.8 102212.7 102267.7 102322.7 102377.3 102432.1 102486.9 102541.2 102595.7 102650.7

219,583

220,324

216 215 214 213 213 213 215 215 215 215 218 212 215 218 218 219 220 217 219 215 216 216 216

1802 1902 2002 2102 2202 2302 0002 0102 0202 0302 0402 0502 0602 0702 0802 0902 1002 1102 1202 1302 1402 1502

065526.5 065571.3 065616.9 065662.4 065707.1 065752.3 065797.0 065842.1 065887.4 065932.6 065977.9 066023.1 066068.4 066113.7 066159.0 066204.2 066249.5 066294.8 066340.1 066385.4 066430.7 066476.0 066521.3

219,065

217,982

219 218 219 217 217 217 217 217 217 215 218 214 214 215 218 220 220 219 220 218 215 218 218

1803 1903 2003 2103 2203 2303 0003 0103 0203 0303 0403 0503 0603 0703 0803 0903 1003 1103 1203 1303 1403 1503

109542.9 109546.9 109546.7 109546.3 109546.7 109546.7 109546.7 109546.7 109546.7 109546.7 109546.7 109546.7 109546.7 109546.7 109546.7 109546.7 109546.7 109546.7 109546.7 109546.7 109546.7 109546.7 109546.7

225,746

225,500

226 224 223 223 223 223 223 223 223 223 223 226 221 222 225 226 228 228 225 227 224 225 224

IN 43.02 43.02 43.02 43.17 43.17 43.17 43.31 43.31 43.31 43.31 43.31 43.38 43.40 43.52 43.52 43.52 43.52 43.54 43.54 43.54 43.54 43.69 43.72

IN 42.94 42.94 42.97 43.10 43.10 43.10 43.23 43.23 43.23 43.23 43.23 43.40 43.30 43.32 43.35 43.45 43.45 43.44 43.46 43.46 43.46 43.61 43.65

IN 43.00 43.00 43.00 43.16 43.16 43.16 43.30 43.30 43.30 43.30 43.30 43.46 43.36 43.39 43.51 43.51 43.51 43.51 43.53 43.53 43.53 43.67 43.71

IN 43.00 43.00 43.00 43.16 43.16 43.16 43.30 43.30 43.30 43.30 43.30 43.46 43.37 43.37 43.51 43.51 43.51 43.51 43.52 43.52 43.52 43.67 43.71

IN 43.13 43.13 43.13 43.28 43.28 43.28 43.42 43.42 43.42 43.42 43.42 43.59 43.47 43.51 43.64 43.64 43.64 43.64 43.66 43.66 43.66 43.80 43.84

IN 43.15 43.15 43.15 43.31 43.31 43.31 43.45 43.45 43.45 43.45 43.45 43.62 43.50 43.54 43.66 43.66 43.66 43.66 43.68 43.68 43.68 43.83 43.87

IN 43.13 43.13 43.13 43.28 43.28 43.28 43.42 43.42 43.42 43.42 43.42 43.58 43.47 43.51 43.63 43.63 43.63 43.63 43.64 43.64 43.64 43.79 43.83

IN 43.15 43.15 43.15 43.31 43.31 43.31 43.45 43.45 43.45 43.45 43.45 43.61 43.49 43.53 43.65 43.65 43.65 43.66 43.67 43.67 43.67 43.82 43.86

IN 1.05

IN 1.00

IN 0.98

IN 0.97

IN 69.19

DL
PS
SAPS

SUBJECT DL-5-225 SHEET NO. 7
SECTION I
REACTIVITY LIFETIME TEST
DATE 9/27/58 - 9/28/58

Table II

DATE TIME	7/27/58	7/28/58	7/29/58	7/30/58	7/31/58	8/1/58	8/2/58	8/3/58	8/4/58	8/5/58	8/6/58	8/7/58	8/8/58	8/9/58	8/10/58	8/11/58	8/12/58	8/13/58
TOTAL F.W. FLOW INTG.	1615	1715	1815	1915	2015	2115	2215	2315	0015	0115	0215	0315	0415	0515	0615	0715	0815	0915
TOTAL F.W. FLOW (FROM INTG.)	12147552	12155558	12163564	12171570	12179576	12187582	12195588	12203594	12211600	12219606	12227612	12235618	12243624	12251630	12259636	12267642	12275648	12283654
TOTAL F.W. FLOW IND.	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92
TIME	1600	1700	1800	1900	2000	2100	2200	2300	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900
1A F.W. FLOW INTG.	1357251	1357751	1358251	1358751	1359251	1359751	1360251	1360751	1361251	1361751	1362251	1362751	1363251	1363751	1364251	1364751	1365251	1365751
1A F.W. FLOW (FROM INTG.)	230	230	232	230	236	230	230	230	230	230	230	231	232	232	232	230	230	231
1A F.W. FLOW IND.	1201	1701	1801	1901	2001	2101	2201	2301	0001	0101	0201	0301	0401	0501	0601	0701	0801	0901
TIME	1602	1702	1802	1902	2002	2102	2202	2302	0002	0102	0202	0302	0402	0502	0602	0702	0802	0902
1B F.W. FLOW INTG.	1026582	1027082	1027582	1028082	1028582	1029082	1029582	1030082	1030582	1031082	1031582	1032082	1032582	1033082	1033582	1034082	1034582	1035082
1B F.W. FLOW (FROM INTG.)	216	216	218	210	212	212	210	212	212	215	216	216	217	218	218	217	218	217
1B F.W. FLOW IND.	1602	1702	1802	1902	2002	2102	2202	2302	0002	0102	0202	0302	0402	0502	0602	0702	0802	0902
TIME	1603	1703	1803	1903	2003	2103	2203	2303	0003	0103	0203	0303	0403	0503	0603	0703	0803	0903
1C F.W. FLOW INTG.	0667190	0667690	0668190	0668690	0669190	0669690	0670190	0670690	0671190	0671690	0672190	0672690	0673190	0673690	0674190	0674690	0675190	0675690
1C F.W. FLOW (FROM INTG.)	218	218	220	212	215	214	214	214	215	215	216	216	217	217	217	216	216	218
1C F.W. FLOW IND.	1603	1703	1803	1903	2003	2103	2203	2303	0003	0103	0203	0303	0403	0503	0603	0703	0803	0903
TIME	1604	1704	1804	1904	2004	2104	2204	2304	0004	0104	0204	0304	0404	0504	0604	0704	0804	0904
1D F.W. FLOW INTG.	1105830	1106330	1106830	1107330	1107830	1108330	1108830	1109330	1109830	1110330	1110830	1111330	1111830	1112330	1112830	1113330	1113830	1114330
1D F.W. FLOW (FROM INTG.)	224	225	226	220	220	220	220	222	222	222	222	222	223	222	223	222	223	223
1D F.W. FLOW IND.	1604	1704	1804	1904	2004	2104	2204	2304	0004	0104	0204	0304	0404	0504	0604	0704	0804	0904
ROD POSITION																		
No. 21	IN.	43.84	43.76	43.76	43.76	43.90	44.02	44.06	44.10	44.12	44.12	44.12	44.12	44.12	44.12	44.12	44.26	44.26
No. 22	IN.	43.77	43.68	43.68	43.69	43.82	43.94	43.98	44.02	44.04	44.03	44.04	44.04	44.04	44.04	44.04	44.18	44.18
No. 23	IN.	43.83	43.75	43.75	43.75	43.88	44.00	44.04	44.08	44.10	44.10	44.10	44.10	44.10	44.10	44.10	44.24	44.24
No. 24	IN.	43.83	43.74	43.74	43.75	43.88	44.00	44.04	44.08	44.10	44.10	44.10	44.10	44.10	44.10	44.10	44.24	44.24
No. 61	IN.	43.96	43.88	43.88	43.88	44.04	44.15	44.18	44.22	44.26	44.26	44.26	44.26	44.26	44.26	44.26	44.39	44.39
No. 62	IN.	43.99	43.90	43.90	43.90	44.07	44.19	44.21	44.24	44.28	44.28	44.29	44.29	44.29	44.29	44.29	44.42	44.42
No. 63	IN.	43.95	43.87	43.87	43.87	44.04	44.15	44.17	44.21	44.25	44.25	44.25	44.25	44.25	44.25	44.25	44.38	44.38
No. 64	IN.	43.98	43.90	43.90	43.90	44.07	44.17	44.20	44.24	44.28	44.28	44.28	44.28	44.28	44.28	44.28	44.41	44.41
No. 41	IN.	1.05																
No. 42	IN.	1.00																
No. 43	IN.	.98																
No. 44	IN.	.99																
GROUP I AVERAGE	IN.	69.19																

DL
PS
SAPS

SUBJECT DL-5-225 DATE 8
SECTION I
REACTIVITY LIFETIME TEST
COMPILED BY _____ DATE 9/28/58 - 9/29/58

Table II

DATE	9/28/58	9/29/58
TIME	1415 1515 1615 1715 1815 1915 2015 2115 2215 2315 0015 0115 0215 0315 0415 0515 0615 0715 0815 0915 1015 1115	
TOTAL F.W. FLOW INTG.	122815.5 122873.7 122935.8 122996.1 123056.4 123116.8 123176.3 123237.4 123297.6 123357.6 123417.9 123478.2 123537.3 123597.5 123658.0 123717.2 123777.8 123837.7 123897.8 123957.9 124017.5 124077.3	
TOTAL F.W. FLOW (FROM INTG.) LB/HR	899.701	895.971
TOTAL F.W. FLOW IND. LB/HR	92 92 92 92 92 92 92 92 92 92 92 92 91 92 91 91 92 92 91 91 92	
TIME	1400 1500 1600 1700 1800 1900 2000 2100 2200 2300 0000 0100 0200 0300 0400 0500 0600 0700 0821 0900 1000 1100	
IA F.W. FLOW INTG.	134993.2 135050.9 135108.8 135166.7 135224.4 135282.3 135340.2 135398.2 135456.2 135514.5 135572.5 135630.0 135687.8 135745.5 135803.5 135860.3 135918.2 135975.5 136032.5 136090.9 136149.1 136206.9	
IA F.W. FLOW (FROM INTG.) LB/HR	232.997	232.965
IA F.W. FLOW IND. LB/HR	231 230 230 231 230 230 230 230 229 230 230 231 230 232 232 232 232 235 230 230 230 231	
TIME	1401 1501 1601 1701 1801 1901 2001 2101 2201 2301 0001 0101 0201 0301 0401 0501 0601 0701 0801 0901 1001 1101	
IB F.W. FLOW INTG.	103846.2 103904.9 103963.3 104021.8 104080.3 104138.8 104197.1 104255.9 104314.2 104372.9 104431.5 104490.0 104548.8 104607.2 104665.9 104724.9 104783.9 104842.9 104901.9 104960.9 105019.8	
IB F.W. FLOW (FROM INTG.) LB/HR	218.310	219.277
IB F.W. FLOW IND. LB/HR	215 215 215 214 212 214 214 214 214 214 215 215 215 218 219 218 218 218 220 215 214 215 215	
TIME	1402 1502 1602 1702 1802 1902 2002 2102 2202 2302 0002 0102 0202 0302 0402 0502 0602 0702 0802 0902 1002 1102	
IC F.W. FLOW INTG.	067910.5 067968.9 068027.3 068085.7 068144.0 068202.4 068260.8 068319.2 068377.6 068436.0 068494.4 068552.8 068611.2 068669.6 068728.0 068786.4 068844.8 068903.2 068961.6 069020.0 069078.4 069136.8	
IC F.W. FLOW (FROM INTG.) LB/HR	219.159	218.160
IC F.W. FLOW IND. LB/HR	219 219 215 215 215 217 218 219 219 219 215 215 215 218 218 217 217 220 218 217 218 218	
TIME	1403 1503 1603 1703 1803 1903 2003 2103 2203 2303 0003 0103 0203 0303 0403 0503 0603 0703 0803 0903 1003 1103	
ID F.W. FLOW INTG.	111809.6 111868.3 111926.9 111985.6 112044.3 112103.0 112161.7 112220.4 112279.1 112337.8 112396.5 112455.2 112513.9 112572.6 112631.3 112689.9 112748.6 112807.3 112866.0 112924.7 112983.4 113042.1	
ID F.W. FLOW (FROM INTG.) LB/HR	229.784	225.070
ID F.W. FLOW IND. LB/HR	224 223 225 224 224 223 223 222 222 223 225 225 223 225 225 225 225 228 225 223 223 223	
ROD POSITION		
No. 21	IN. 49.31 49.31 49.39 49.46 49.43 49.47 49.47 49.47 49.49 49.55 49.60 49.60 49.61 49.68 49.68 49.70 49.75 49.75 49.75 49.75 49.75 49.75	
No. 22	IN. 49.23 49.23 49.31 49.33 49.36 49.39 49.39 49.39 49.41 49.48 49.52 49.52 49.53 49.60 49.60 49.62 49.67 49.67 49.67 49.67 49.67 49.67	
No. 23	IN. 49.29 49.29 49.36 49.39 49.42 49.46 49.46 49.46 49.47 49.54 49.58 49.58 49.59 49.66 49.66 49.68 49.73 49.73 49.73 49.73 49.73 49.73	
No. 24	IN. 49.30 49.30 49.36 49.39 49.42 49.45 49.45 49.45 49.47 49.53 49.58 49.58 49.59 49.66 49.66 49.68 49.73 49.73 49.73 49.73 49.73 49.73	
No. 61	IN. 49.46 49.46 49.52 49.55 49.58 49.62 49.62 49.62 49.69 49.71 49.75 49.75 49.79 49.83 49.83 49.88 49.93 49.93 49.93 49.93 49.93 49.93	
No. 62	IN. 49.59 49.59 49.59 49.58 49.61 49.65 49.65 49.65 49.67 49.73 49.78 49.78 49.82 49.86 49.86 49.91 49.95 49.95 49.95 49.95 49.95 49.95	
No. 63	IN. 49.46 49.46 49.51 49.55 49.58 49.62 49.62 49.62 49.63 49.70 49.75 49.75 49.79 49.83 49.83 49.87 49.91 49.91 49.91 49.91 49.91 49.91	
No. 64	IN. 49.48 49.48 49.53 49.57 49.60 49.69 49.69 49.69 49.69 49.73 49.78 49.78 49.81 49.86 49.86 49.90 49.94 49.94 49.94 49.94 49.94 49.94	
No. 41	IN. 1.05	
No. 42	IN. 1.00	
No. 43	IN. 0.98	
No. 44	IN. 0.99	
GROUP I AVERAGE	IN. 69.29	

DL-S-225

9

SECTION I

REACTIVITY LIFETIME TEST

DL

PS

SAPS

9-29/58 To 9/30/58

TABLE II

DATE	9-29-58										9-30-58												
TIME	1215	1315	1415	1515	1615	1715	1815	1915	2015	2115	2215	2315	0015	0115	0215	0315	0415	0515	0615	0715	0815	0915	
TOTAL F.W. FLOW INTG.	124137.0	124194.7	124256.5	124316.3	124357.9	124435.5	124495.3	124553.6	124614.9	124674.6	124734.2	124793.5	124852.8	124912.5	124971.1	125031.9	125091.5	125150.9	125211.2	125271.3	125330.7	125390.5	
TOTAL F.W. FLOW (FROM INTG.) LB/HR	893,618										887,013										709,731		
TOTAL F.W. FLOW IND. LB/HR	92	92	92	92	92	91	91	92	91	91	91	91	91	91	91	91.5	91	92	92	92	92	92	
TIME	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	0100	0200	0300	0400	0500	0600	0700	0800	0900	
1A F.W. FLOW INTG.	136264.5	136321.9	136379.4	136436.0	136494.2	136551.2	136608.6	136665.8	136722.9	136780.0	136837.3	136894.9	136951.0	137007.7	137064.5	137121.2	137178.2	137235.5	137292.2	137350.6	137408.0	137465.6	
1A F.W. FLOW (FROM INTG.) LB/HR	232,250										229,907										229,818		
1A F.W. FLOW IND. LB/HR	231	230	230	230	229	228	230	229	229	229	229	228	229	227	229	230	230	230	230	230	230	230	
TIME	1201	1301	1401	1501	1601	1701	1801	1901	2001	2101	2201	2301	0001	0101	0201	0301	0401	0501	0601	0701	0801	0901	
1B F.W. FLOW INTG.	105042.9	105099.7	105156.5	105213.3	105269.8	105325.8	105381.6	105437.4	105493.2	105549.0	105604.8	105660.6	105716.4	105772.2	105828.0	105883.8	105939.6	105995.4	106051.2	106107.0	106162.8	106218.6	
1B F.W. FLOW (FROM INTG.) LB/HR	218,016										218,340										217,621		
1B F.W. FLOW IND. LB/HR	215	215	215	214	213	213	215	212	212	213	215	215	212	212	219	213	213	215	218	215	216	215	
TIME	1202	1302	1402	1502	1602	1702	1802	1902	2002	2102	2202	2302	0002	0102	0202	0302	0402	0502	0602	0702	0802	0902	
1C F.W. FLOW INTG.	69103.2	69157.6	69211.8	69266.0	69320.1	69373.8	69427.4	69481.1	69534.5	69588.2	69641.8	69694.8	69748.3	69801.5	69854.9	69908.2	69961.0	70014.0	70067.4	70120.9	70174.4	70227.8	
1C F.W. FLOW (FROM INTG.) LB/HR	219,165										216,218										216,606		
1C F.W. FLOW IND. LB/HR	218	218	218	217	215	215	217	213	212	215	213	213	213	213	215	216	218	218	219	220	218	217	
TIME	1203	1303	1403	1503	1603	1703	1803	1903	2003	2103	2203	2303	0003	0103	0203	0303	0403	0503	0603	0703	0803	0903	
1D F.W. FLOW INTG.	113038.7	113094.2	113149.9	113205.8	113260.2	113315.8	113371.2	113426.9	113482.2	113537.5	113593.5	113648.5	113704.0	113759.2	113814.3	113869.8	113925.3	113980.1	114037.0	114092.8	114148.4	114204.3	
1D F.W. FLOW (FROM INTG.) LB/HR	224,167										223,548										223,593		
1D F.W. FLOW IND. LB/HR	223	222	222	222	222	220	222	221	220	222	220	220	220	220	220	221	222	222	223	225	225	224	
ROD POSITION																							
No. 21	IN.	45.01	45.01	45.01	45.01	45.01	45.06	45.19	45.09	45.14	45.21	45.21	45.21	45.31	45.41	45.47	45.52	45.43	45.43	45.43	45.43	45.39	45.52
No. 22	IN.	44.93	44.93	44.93	44.93	44.93	44.98	45.11	45.02	45.06	45.12	45.12	45.12	45.24	45.33	45.40	45.44	45.36	45.36	45.36	45.36	45.32	45.44
No. 23	IN.	45.00	45.00	45.00	45.00	45.00	45.04	45.18	45.08	45.13	45.20	45.20	45.20	45.30	45.39	45.46	45.50	45.42	45.42	45.42	45.42	45.38	45.50
No. 24	IN.	45.00	45.00	45.00	45.00	45.00	45.04	45.18	45.08	45.13	45.20	45.20	45.20	45.30	45.39	45.46	45.50	45.42	45.42	45.42	45.42	45.38	45.50
No. 61	IN.	45.17	45.17	45.17	45.17	45.17	45.25	45.38	45.26	45.39	45.38	45.38	45.38	45.50	45.40	45.46	45.51	45.42	45.42	45.42	45.42	45.38	45.51
No. 62	IN.	45.20	45.20	45.20	45.20	45.20	45.27	45.41	45.29	45.36	45.41	45.41	45.41	45.53	45.43	45.49	45.53	45.44	45.44	45.44	45.44	45.41	45.54
No. 63	IN.	45.17	45.17	45.17	45.17	45.17	45.24	45.38	45.26	45.39	45.38	45.38	45.38	45.50	45.39	45.46	45.50	45.41	45.42	45.42	45.42	45.38	45.50
No. 64	IN.	45.20	45.20	45.20	45.20	45.20	45.27	45.40	45.29	45.35	45.40	45.40	45.40	45.53	45.42	45.49	45.53	45.44	45.44	45.44	45.44	45.40	45.53
No. 41	IN.	1.05	1.05	1.05	1.05	1.05	1.05																
No. 42	IN.	1.00	1.00	1.00	1.00	1.00	1.00																
No. 43	IN.	0.98	0.98	0.98	0.98	0.98	0.98																
No. 44	IN.	0.99	0.99	0.99	0.99	0.99	0.99																
GROUP I AVERAGE	IN.	69.29	69.29	69.29	69.29	69.29	69.29																

DL SUBJECT DL-S-225 INSET NO. 10
 PS SECTION I
 SPS DEPARTMENT REACTIVITY LIFETIME TEST
 DIVISION COMPILED BY DATE 9-30-58 To 10-1-58

TABLE II

DATE	9-30	9-30	9-30	10-1	10-1	10-1
TIME	1015 1115 1215 1315 1415 1515 1615 1715 1815 1915 2015 2115 2215 2315 0015 0115 0215 0315 0415 0515 0615 0715					
TOTAL F.W. FLOW INTG.	125450.4 125509.9 125568.3 125628.4 125688.2 125748.1 125808.5 125867.9 125927.7 125987.5 126046.2 126106.5 126165.8 126225.9 126284.7 126344.9 126404.8 126464.6 126525.1 126585.3 126644.9 126705.7					
TOTAL F.W. FLOW (FROM INTG.) LB/HR		703.230				
TOTAL F.W. FLOW IND. LB/HR	92 92 91 92 92 92 92 92 92 92 92 91 91 92 92 92 92 92 92 92 92 92					
TIME	1000 1100 1200 1300 1400 1500 1600 1700 1800 1900 2000 2100 2200 2300 0000 0100 0200 0300 0400 0500 0600 0700					
1A F.W. FLOW INTG.	137522.8 137579.7 137636.6 137693.5 137750.8 137807.9 137865.1 137922.9 137979.9 138036.1 138093.1 138150.5 138206.8 138263.4 138320.3 138377.2 138434.3 138491.5 138548.5 138606.4 138664.8 138720.9					
1A F.W. FLOW (FROM INTG.) LB/HR		230.142				
1A F.W. FLOW IND. LB/HR	228 229 229 228 229 228 228 227 228 228 227 227 227 228 228 228 229 229 229 229 229 229					
TIME	1001 1101 1201 1301 1401 1501 1601 1701 1801 1901 2001 2101 2201 2301 0001 0101 0201 0301 0401 0501 0601 0701					
1B F.W. FLOW INTG.	106230.6 106283.8 106337.1 106390.5 106444.1 106497.8 106551.9 106605.7 106659.6 106714.0 106768.3 106822.5 106876.7 106930.8 106985.2 107039.9 107094.0 107148.4 107202.9 107257.0 107312.4 107365.4					
1B F.W. FLOW (FROM INTG.) LB/HR		215.743				
1B F.W. FLOW IND. LB/HR	213 213 213 216 215 216 214 212 214 213 214 212 212 212 212 212 214 213 213 214 214 214					
TIME	1002 1102 1202 1302 1402 1502 1602 1702 1802 1902 2002 2102 2202 2302 0002 0102 0202 0302 0402 0502 0602 0702					
1C F.W. FLOW INTG.	070288.1 070342.1 070395.8 070449.7 070504.0 070557.9 070611.8 070665.1 070718.7 070772.1 070825.5 070878.6 070931.9 070985.0 071038.5 071092.3 071146.4 071200.2 071254.9 071309.8 071365.1 071419.0					
1C F.W. FLOW (FROM INTG.) LB/HR		217.906				
1C F.W. FLOW IND. LB/HR	217 217 212 218 217 215 214 213 213 212 212 212 212 212 212 212 215 215 219 219 219 220 220					
TIME	1003 1103 1203 1303 1403 1503 1603 1703 1803 1903 2003 2103 2203 2303 0003 0103 0203 0303 0403 0503 0603 0703					
1D F.W. FLOW INTG.	114259.7 114314.9 114369.9 114425.0 114480.6 114536.0 114591.7 114646.9 114702.1 114757.6 114813.3 114868.6 114923.9 114979.3 115034.8 115090.5 115146.5 115202.3 115258.3 115313.5 115371.5 115426.3					
1D F.W. FLOW (FROM INTG.) LB/HR		223.995				
1D F.W. FLOW IND. LB/HR	222 222 220 222 223 222 221 222 222 222 222 221 221 221 221 222 222 222 223 223 223 233					
ROD POSITION						
No. 21	IN 45.52 45.64 45.63 45.77 45.77 45.68 45.63 45.71 45.77 45.77 45.77 45.77 45.89 45.89 45.89 45.89 45.89 45.89 45.89 45.89 45.89 45.89					
No. 22	IN 45.44 45.56 45.55 45.69 45.69 45.60 45.55 45.62 45.69 45.69 45.69 45.69 45.81 45.81 45.81 45.81 45.81 45.81 45.81 45.81 45.81 45.81					
No. 23	IN 45.50 45.63 45.62 45.75 45.75 45.66 45.62 45.69 45.75 45.75 45.75 45.75 45.88 45.88 45.88 45.88 45.88 45.88 45.88 45.88 45.88 45.88					
No. 24	IN 45.50 45.63 45.62 45.75 45.75 45.66 45.62 45.69 45.75 45.75 45.75 45.75 45.87 45.87 45.87 45.87 45.87 45.87 45.87 45.87 45.87 45.87					
No. 61	IN 45.51 45.63 45.62 45.75 45.75 45.66 45.66 45.68 45.76 45.76 45.76 45.76 45.88 45.88 45.88 45.88 45.88 45.88 45.88 45.88 45.88 45.88					
No. 62	IN 45.54 45.66 45.65 45.79 45.79 45.69 45.65 45.71 45.78 45.78 45.78 45.78 45.91 45.91 45.91 45.91 45.91 45.91 45.91 45.91 45.91 45.91					
No. 63	IN 45.50 45.63 45.62 45.75 45.75 45.66 45.61 45.68 45.75 45.75 45.75 45.75 45.88 45.88 45.88 45.88 45.88 45.88 45.88 45.88 45.88 45.88					
No. 64	IN 45.53 45.65 45.64 45.78 45.78 45.68 45.62 45.71 45.78 45.78 45.78 45.78 45.90 45.90 45.90 45.90 45.90 45.90 45.90 45.90 45.90 45.90					
No. 41	IN 1.05					
No. 42	IN 1.00					
No. 43	IN 0.98					
No. 44	IN 0.99					
Group I. AVERAGE	IN 68.29					

SAPS

SHEET NO. 11

COMPANY

Section I

DEPARTMENT

Reactivity Lifetime Test

DIVISION

COMPILED BY

SECRET

DATE _____

10-1-58 TO 10-2-58

TABLE II

6K

SUBJECT DL-S-225 SHIRT NO. 12
 DL Section I
 PS Reactivity Lifetime Test
 SAPS

TABLE II

FORM 422-7112

DATE	10-2-58	10-3-58
TIME	0315 0715 0515 0615 0715 0815 0915 1015 1115 1215 1315 1415 1515 1615 1715 1815 1915 2015 2115 2215 2334 0015	
TOTAL F.W. FLOW INTG.	127907.0 127966.1 128025.0 128085.8 128146.7 128205.1 128264.7 128324.7 128385.1 128445.6 128505.8 128565.7 128625.7 128685.1 128745.4 128805.1 128865.2 128925.6 128985.8 129045.9 129106.3 129163.7	
TOTAL F.W. FLOW (FROM INTG.) LB/HR	906.60	909.015 914.973 916.407 909.430 908.286
TOTAL F.W. FLOW IND. LB/HR	92 92 92 92 92 92 92 92 92 92 92 92 91 91 91 91 92 92 92 92 92	
TIME	0300 0400 0500 0600 0700 0800 0900 1000 1100 1200 1300 1400 1500 1600 1700 1800 1900 2000 2100 2200 2300 0000	
IA F.W. FLOW INTG.	139868.6 139925.5 139982.5 140041.4 140098.9 140158.0 140211.1 140268.5 140326.3 140384.1 140441.7 140499.1 140556.5 140613.5 140670.9 140727.8 140784.9 140841.9 140899.5 140956.8 141013.7 141070.6	
IA F.W. FLOW (FROM INTG.) LB/HR	229.660	231.092 232.705 233.645 231.361 230.200
IA F.W. FLOW IND. LB/HR	228 228 228 230 230 230 230 231 231 230 230 230 230 230 230 229 229 230 230 230 229 228	
TIME	0301 0401 0501 0601 0701 0801 0901 1001 1101 1201 1301 1401 1501 1601 1701 1801 1901 2001 2101 2201 2301 0001	
IB F.W. FLOW INTG.	108455.5 108511.4 108565.3 108619.8 108673.1 108727.0 108779.0 108835.0 108889.9 108944.6 108997.1 109054.1 109108.9 109163.6 109218.8 109273.9 109328.6 109382.9 109437.0 109494.0 109548.7 109602.8	
IB F.W. FLOW (FROM INTG.) LB/HR	218.182	217.513 221.138 229.277 220.601 214.236
IB F.W. FLOW IND. LB/HR	215 215 214 215 215 215 215 216 219 219 219 219 219 218 218 218 218 218 218 216 215 212	
TIME	0302 0402 0502 0602 0702 0802 0902 1002 1102 1202 1302 1402 1502 1602 1702 1802 1902 2002 2102 2202 2302 0002	
IC F.W. FLOW INTG.	072584.5 072642.5 072697.2 072750.8 072802.1 072852.0 072902.0 072952.0 073002.0 073051.4 073101.0 073150.9 073200.7 073249.7 073298.0 073346.1 073394.9 073443.2 073491.2 073539.1 073587.0 073634.5	
IC F.W. FLOW (FROM INTG.) LB/HR	218.229	221.027 221.430 221.778 218.612 217.160
IC F.W. FLOW IND. LB/HR	219 220 220 220 220 220 220 220 220 220 220 217 217 216 216 216 216 217 217 217 216 217	
TIME	0303 0403 0503 0603 0703 0803 0903 1003 1103 1203 1303 1403 1503 1603 1703 1803 1903 2003 2103 2203 2303 0003	
ID F.W. FLOW INTG.	116546.1 116602.0 116657.7 116712.8 116767.2 116825.0 116880.3 116936.5 116992.9 117049.1 117105.2 117161.1 117217.0 117273.0 117328.9 117384.8 117440.7 117496.3 117553.2 117609.1 117665.1 117721.0	
ID F.W. FLOW (FROM INTG.) LB/HR	224.510	224.136 224.833 226.092 225.209 225.506
ID F.W. FLOW IND. LB/HR	223 225 225 225 224 224 224 225 226 225 225 223 225 225 223 223 225 226 223 222 222	
ROD POSITIONS		
No. 21	IN. 46.64 46.64 46.68 46.68 46.68 46.68 46.68 46.68 46.72 46.72 46.63 46.63 46.68 46.77 46.81 46.81 46.81 46.92 46.92 46.93 46.93 46.93 47.03	
No. 22	IN. 46.56 46.56 46.60 46.60 46.60 46.60 46.60 46.60 46.64 46.64 46.56 46.56 46.60 46.69 46.73 46.73 46.73 46.84 46.84 46.86 46.86 46.86 46.95	
No. 23	IN. 46.63 46.63 46.66 46.66 46.66 46.66 46.66 46.66 46.70 46.70 46.62 46.62 46.66 46.75 46.80 46.80 46.80 46.91 46.91 46.92 46.92 46.92 47.02	
No. 24	IN. 46.63 46.63 46.66 46.66 46.66 46.66 46.66 46.66 46.70 46.70 46.62 46.62 46.66 46.75 46.79 46.79 46.79 46.91 46.91 46.92 46.92 46.92 47.02	
No. 61	IN. 46.64 46.64 46.67 46.67 46.67 46.67 46.67 46.67 46.71 46.71 46.63 46.63 46.67 46.77 46.84 46.84 46.84 46.93 46.93 46.96 46.96 46.96 47.05	
No. 62	IN. 46.66 46.66 46.70 46.70 46.70 46.70 46.70 46.70 46.75 46.75 46.66 46.66 46.70 46.79 46.87 46.87 46.87 46.95 46.95 46.99 46.99 46.99 47.08	
No. 63	IN. 46.63 46.63 46.67 46.67 46.67 46.67 46.67 46.67 46.71 46.71 46.63 46.63 46.67 46.76 46.83 46.83 46.83 46.92 46.92 46.95 46.95 46.95 47.04	
No. 64	IN. 46.66 46.66 46.70 46.70 46.70 46.70 46.70 46.70 46.74 46.74 46.65 46.65 46.69 46.79 46.86 46.86 46.86 46.94 46.94 46.98 46.98 46.98 47.07	
No. 41	IN. 1.05	
No. 42	IN. 1.00	
No. 43	IN. 0.98	
No. 44	IN. 0.99	
Group I AVERAGE	IN. 69.29	69.20

SUBJECT DL-S-225 13
 DUQUESNE LIGHT REACTIVITY LIFETIME TEST
 POWER STATIONS HOURLY READING
 SHIPPING PORT _____
 DATE 10-3 to 10-3

TABLE II

DATE	10-3	10-3	10-3	10-3	10-3	10-3	10-3	10-3	10-3	10-3	10-3	10-3	10-3	10-3	10-3	10-3	10-3	10-3	10-3	10-3	10-3	10-3	10-3		
TIME	0115	0215	0315	0415	0515	0615	0715	0815	0915	1015	1115	1215	1315	1415	1515	1615	1715	1815	1915	2015	2115	2215	2315		
TOTAL FW FLOW INT.	1242.20	1292.69	1293.50	1244.51	1244.51	1295.55	1258.55	1294.55	1297.58	1296.57	1298.55	1299.66	1299.75	1300.75	1301.75	1302.75	1303.75	1304.75	1305.75	1306.75	1307.75	1308.75	1309.75		
TOTAL FW FLOW (FROM INT) ¹⁸ /HR							910.883								910.814								876.683		
TOTAL FW FLOW IND. ¹⁸ /HR	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	91	91	91	91	92		
TIME	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300		
1A FW FLOW INTEGRATOR	1412.75	1418.50	1424.25	1430.00	1435.75	1441.50	1447.25	1453.00	1458.75	1464.50	1470.25	1476.00	1481.75	1487.50	1493.25	1499.00	1504.75	1510.50	1516.25		1522.00		1527.75		
1A FW FLOW (FROM INT) ¹⁸ /HR							231.152								233.156								228.571		
1A FW FLOW INDICATOR ¹⁸ /HR	230	230	232	231	232	232	232	232	230	230	231	231	231	231	232	232	229	228	226		226		228		
TIME	0101	0201	0301	0401	0501	0601	0701	0801	0901	1001	1101	1201	1301	1401	1501	1601	1701	1801	1901	2001	2101	2201	2301		
1B FW FLOW INTEGRATOR	1096.512	1097.115	1097.660	1098.201	1098.741	1099.281	1099.821	1100.361	1100.901	1101.441	1101.981	1102.521	1103.061	1103.601	1104.141	1104.681	1105.221	1105.761	1106.301	1106.841	1107.381	1107.921	1108.461		
1B FW FLOW (FROM INT) ¹⁸ /HR							218.876								221.519								220.855		
1B FW FLOW INDICATOR ¹⁸ /HR	213	213	215	216	217	218	218	219	219	219	219	219	220	220	221	221	218	216	214		214		212		
TIME	0102	0202	0302	0402	0502	0602	0702	0802	0902	1002	1102	1202	1302	1402	1502	1602	1702	1802	1902	2002	2102	2202	2302		
1C FW FLOW INTEGRATOR	0737.00	0737.54	0738.08	0738.62	0739.16	0739.70	0740.24	0740.78	0741.32	0741.86	0742.40	0742.94	0743.48	0744.02	0744.56	0745.10	0745.64	0746.18	0746.72	0747.26	0747.80	0748.34	0748.88		
1C FW FLOW (FROM INT) ¹⁸ /HR							221.636								220.225								215.832		
1C FW FLOW INDICATOR ¹⁸ /HR	219	220	220	220	223	223	221	220	220	220	220	220	220	220	220	215	215	214	212		212		218		
TIME	0103	0203	0303	0403	0503	0603	0703	0803	0903	1003	1103	1203	1303	1403	1503	1603	1703	1803	1903	2003	2103	2203	2303		
1D FW FLOW INTEGRATOR	1177.69	1178.23	1178.77	1179.31	1179.85	1180.39	1180.93	1181.47	1182.01	1182.55	1183.09	1183.63	1184.17	1184.71	1185.25	1185.79	1186.33	1186.87	1187.41	1187.95	1188.49	1189.03	1189.57		
1D FW FLOW (FROM INT) ¹⁸ /HR							225.852								226.585								225.763		
1D FW FLOW INDICATOR ¹⁸ /HR	223	223	225	226	227	226	225	225	225	225	225	225	225	225	225	225	225	223	223		223		221		
ROD POSITIONS																									
No. 21 (INCHES)	47.18												47.27	47.27	47.22	47.18	47.22	47.28	47.35	47.43	47.43	47.59	47.59	47.69	47.68
No. 22 (INCHES)	47.10												47.19	47.19	47.14	47.10	47.14	47.20	47.28	47.35	47.35	47.51	47.51	47.51	47.60
No. 23 (INCHES)	47.16												47.26	47.26	47.20	47.17	47.20	47.26	47.34	47.42	47.42	47.58	47.58	47.67	47.67
No. 24 (INCHES)	47.16												47.26	47.26	47.20	47.17	47.20	47.26	47.34	47.42	47.42	47.57	47.57	47.67	47.67
No. 61 (INCHES)	47.18												47.30	47.30	47.22	47.18	47.22	47.30	47.38	47.46	47.46	47.62	47.62	47.71	47.72
No. 62 (INCHES)	47.21												47.32	47.32	47.25	47.22	47.25	47.33	47.41	47.49	47.49	47.65	47.65	47.74	47.74
No. 63 (INCHES)	47.17												47.29	47.29	47.22	47.19	47.22	47.30	47.38	47.45	47.45	47.62	47.62	47.71	47.71
No. 64 (INCHES)	47.20												47.32	47.32	47.24	47.21	47.24	47.32	47.40	47.46	47.46	47.64	47.64	47.74	47.74
No. 41 (INCHES)	1.05																								Y
No. 42 (INCHES)	1.00																								Y
No. 43 (INCHES)	0.98																								Y
No. 44 (INCHES)	0.99																								Y
GROUP I AVG (INCHES)	69.20																								Y

* CORRECTED FOR CALIBRATION AND TEMPERATURE

4M

DL
PS
SAPS

DL-S-225
SECTION I
REACTIVITY LIFETIME TEST
10-9-58

TABLE II

DATE	TIME	0015	0115	0215	0315	0415	0515	0615	0715	0815	0915	1015	1115	1215	1315	1415	1515	1615	1715	1815	1915	2015	2115	2215
TOTAL FW FLOW INT.		130601.2	130663.9	130722.5	130783.0	130842.0	130901.3	130961.8	131020.3	131078.9	131138.2	131195.7	131252.5	131312.5	131377.0	131436.9	131496.1	131553.8	131614.7	131673.7	131733.1	131795.0	131852.1	131912.4
TOTAL FW FLOW (From Integr.)	16/hr								901.232								901.061							
TOTAL FW FLOW IND.	16/hr	91	91	91	91	91	91	90	90	91	91	90	92	92	92	91	92	91	89	91	92	91	92	92
TIME		0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200
1A FW FLOW INTER.		142992.7	142504.9	142562.1	142649.0	142676.6	142733.0	142790.2	142847.7	142904.9	142961.9	143019.1	143076.1	143133.2	143190.3	143250.5	143304.0	143360.8	143416.5	143472.7	143529.1	143586.0	143642.4	143699.0
1A FW FLOW (From Integr.)	16/hr								229.999								229.747							
1A FW FLOW IND.	16/hr	229	230	229	230	230	228	230	230	230	229	229	229	229	228	228	225	225	225	225	228	228	228	228
TIME		0001	0101	0201	0301	0401	0501	0601	0701	0801	0901	1001	1101	1201	1301	1401	1501	1601	1701	1801	1901	2001	2101	2201
1B FW FLOW INTER.		110914.9	110769.0	111022.9	111107.6	111129.7	111183.5	111237.0	111291.0	111344.8	111398.5	111444.0	111507.6	111562.2	111617.0	111675.6	111727.4	111782.1	111836.5	111890.9	111944.7	111999.3	112053.5	112107.4
1B FW FLOW (From Integr.)	16/hr								217.117								217.837							
1B FW FLOW IND.	16/hr	212	213	213	211	212	213	215	215	218	218	215	215	219	218	218	218	211	214	212	213	213	212	212
TIME		0002	0102	0202	0302	0402	0502	0602	0702	0802	0902	1002	1102	1202	1302	1402	1502	1602	1702	1802	1902	2002	2102	2202
1C FW FLOW INTER.		074953.1	075002.9	075062.1	075127.1	075191.7	075252.2	075318.0	075383.9	075449.4	075514.7	075580.2	075646.7	075710.3	075771.6	075830.7	075882.5	075937.2	075992.5	076047.9	076103.5	076159.3	076214.1	076269.1
1C FW FLOW (From Integr.)	16/hr								220.030								217.160							
1C FW FLOW IND.	16/hr	218	218	220	219	220	220	219	219	218	213	212	212	215	215	214	213	212	212	211	212	212	215	215
TIME		0003	0103	0203	0303	0403	0503	0603	0703	0803	0903	1003	1103	1203	1303	1403	1503	1603	1703	1803	1903	2003	2103	2203
1D FW FLOW INTER.		119662.8	119713.6	119772.2	119835.1	119890.5	119945.9	119997.2	120052.5	120107.8	120162.8	120217.8	120272.2	120326.2	120380.7	120434.7	120488.1	120541.4	120594.3	120647.2	120700.1	120752.5	120805.2	120857.9
1D FW FLOW (From Integr.)	16/hr								223.946								229.147							
1D FW FLOW IND.	16/hr	222	221	222	222	222	222	222	222	222	223	223	224	224	224	224	225	220	222	220	220	221	221	221
ROD POSITIONS																								
No. 21	IN.	47.69	47.72	47.67	47.65	47.65	47.65	47.73	47.73	47.73	47.73	47.73	47.81	47.81	47.81	47.81	47.81	47.91	47.94	48.02	47.94	47.97	47.97	
No. 22	IN.	47.61	47.64	47.61	47.57	47.57	47.57	47.65	47.65	47.65	47.65	47.73	47.73	47.73	47.73	47.73	47.73	47.83	47.86	47.94	47.86	47.89	47.89	
No. 23	IN.	47.68	47.70	47.67	47.63	47.63	47.63	47.71	47.71	47.71	47.71	47.71	47.78	47.78	47.78	47.79	47.79	47.79	47.89	47.92	48.00	47.86	47.95	
No. 24	IN.	47.67	47.70	47.67	47.63	47.63	47.63	47.71	47.71	47.71	47.71	47.71	47.79	47.79	47.79	47.79	47.79	47.89	47.92	48.00	47.87	47.95	47.95	
No. 61	IN.	47.72	47.75	47.71	47.67	47.67	47.67	47.75	47.75	47.76	47.76	47.76	47.84	47.84	47.84	47.84	47.84	47.84	47.96	47.99	48.05	47.92	48.00	
No. 62	IN.	47.75	47.78	47.74	47.70	47.70	47.70	47.78	47.78	47.78	47.78	47.78	47.86	47.86	47.86	47.86	47.86	47.86	47.99	48.02	48.08	47.95	48.03	
No. 63	IN.	47.72	47.75	47.71	47.67	47.67	47.67	47.75	47.75	47.75	47.75	47.75	47.83	47.83	47.83	47.83	47.83	47.83	47.95	47.99	48.05	47.96	48.00	
No. 64	IN.	47.75	47.78	47.74	47.70	47.70	47.70	47.78	47.78	47.78	47.78	47.78	47.86	47.86	47.86	47.86	47.86	47.86	47.98	48.02	48.07	47.93	48.03	
No. 41	IN.	1.05																						
No. 42	IN.	1.00																						
No. 43	IN.	0.98																						
No. 44	IN.	0.99																						
GROUP I AVG.	IN.	69.20																						

614

15-

Reactivity Lifetime Test

10-4-58 to 10-5-58

TABLE II

DATE	10-4-58	10-5-58	10-6-58	10-7-58	10-8-58	10-9-58	10-10-58	10-11-58	10-12-58	10-1-59	10-2-59	10-3-59	10-4-59	10-5-59	10-6-59	10-7-59	10-8-59	10-9-59	10-10-59	10-11-59	10-12-59	10-1-60	10-2-60	10-3-60	10-4-60	10-5-60	10-6-60	10-7-60	10-8-60	10-9-60	10-10-60	10-11-60	10-12-60
TIME	2315	0015	0115	0215	0315	0415	0515	0615	0715	0815	0915	1015	1115	1215	1315	1415	1515	1615	1715	1815	1915	2015	2115										
TOTAL F.W. FLOW INT.	131972.4	132031.5	132150.5	132210.0	132269.0	132328.7	132387.0	132447.7	132506.3	132565.0	132623.9	132683.3	132744.6	132804.9	132862.2	132922.6	132983.1	133044.6	133102.1	133161.6	133221.1	133281.6	133341.1	133401.6	133461.1	133521.6	133581.1	133641.6	133701.1	133761.6	133821.1	133881.6	133941.1
TOTAL F.W. FLOW (FROM INT.)	299.275							903.718																									
TOTAL F.W. FLOW IND	92	92	91	91	91	91	91	91	90	89	89	88	88	88	88	88	88	88	88	88	88	91	91	91	91	91	91	91	91	91	91	91	91
TIME	2300	2400	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100										
IA F.W. FLOW INTGR.	133755.6	143012.4	143068.2	143125.5	143183.3	143241.0	143299.5	143357.5	143415.2	143473.1	143531.0	143589.5	143647.5	143705.5	143763.5	143821.5	143879.5	143937.5	143995.5	144053.5	144111.5	144169.5	144227.5	144285.5	144343.5	144401.5	144459.5	144517.5	144575.5	144633.5	144691.5	144749.5	144807.5
IA F.W. FLOW (FROM INT.)	235.800							239.408																									
IA F.W. FLOW IND	229	229	228	228	228	228	228	228	230	230	230	230	228	227	227	227	227	227	227	227	227	227	227	227	227	227	227	227	227	227	227	227	228
TIME	2301	0001	0101	0201	0301	0401	0501	0601	0701	0801	0901	1001	1101	1201	1301	1401	1501	1601	1701	1801	1901	2001	2101										
IB F.W. FLOW INTGR.	112161.0	112214.5	112268.0	112320.7	112373.8	112427.0	112480.1	112533.1	112587.8	112641.1	112694.7	112748.5	112802.3	112856.1	112910.4	112964.2	113018.5	113072.7	113127.0	113181.3	113235.5	113289.8	113344.1	113398.4	113452.7	113507.0	113561.3	113615.6	113669.9	113724.2	113778.5	113832.8	113887.1
IB F.W. FLOW (FROM INT.)	217.017							216.076																									
IB F.W. FLOW IND.	210	210	210	210	210	210	210	213</																									

610

TABLE II

DATE	TIME	TOTAL F.W. FLOW INT.																							
		TOTAL F.W. FLOW (FROM INT)																							
		TOTAL F.W. FLOW IND																							
	TIME	1A F.W. FLOW INTEGR.																							
		1A F.W. FLOW (FROM INT)																							
		1A F.W. FLOW IND.																							
	TIME	1B F.W. FLOW INTEGR.																							
		1B F.W. FLOW (FROM INT)																							
		1B F.W. FLOW IND.																							
	TIME	1C F.W. FLOW INTEGR.																							
		1C F.W. FLOW (FROM INT)																							
		1C F.W. FLOW IND.																							
	TIME	1D F.W. FLOW INTEGR.																							
		1D F.W. FLOW (FROM INT)																							
		1D F.W. FLOW IND.																							
	ROD POSITIONS																								
	NO 21																								
	NO 22																								
	NO 23																								
	NO 24																								
	NO 61																								
	NO 62																								
	NO 63																								
	NO 64																								
	NO 41																								
	NO 42																								
	NO 43																								
	NO 44																								
	GROUP I AVERAGE																								

FORM 684-2112

[illegible]

18

P.S.

S.A.P.S.

REACTIVITY LIFETIME

10-7-58 to 10-8-58

TABLE II

[illegible]

COMPANY

PS.

DEPART: _____

REACTIVITY LIFETIME

S.A.P.S.

COMPLETED BY

CHECKED BY

DATE 10-8-58 TO 10-9-58

TABLE II

[illegible]

SHIFT NO. 20

DL

COMPANY

P.S

DE#4710157

Reactivity Lifetime

SAPS

DIVISION

COMO LEC PY

CHECAFO RT

DATE 10-9-58 to

TABLE II

[illegible]

SUBJECT DL-S-225 SHEET NO. 21
 DUQUESNE LIGHT COMPANY REACTIVITY LIFETIME TEST
 POWER STATIONS DEPARTMENT HOURLY READINGS
 SHIPPINGPORT _____ DIVISION _____ COMPILED BY _____ CHECKED BY _____ DATE _____

TABLE II

DATE	10-10	10-10	10-10	10-10	10-10	10-10	10-10	10-10	10-10	10-10	10-10	10-10	10-10	10-11	10-11	10-11	10-11	10-11	10-11	10-11	10-11	10-11	10-11	10-11
TIME	1215	1215	1215	1215	1215	1215	1215	1215	1215	1215	1215	1215	1215	0015	0115	0215	0315	0415	0515	0615	0715	0815	0915	1015
TOTAL FW FLOW INTEGR.	12986	13994	14004	14004	14004	14004	14004	14004	14004	14004	14004	14004	14004	14004	14004	14004	14004	14004	14004	14004	14004	14004	14004	14004
TOTAL FW FLOW (FROM INT) 1/HR																								
TOTAL FW FLOW INDICATOR	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92
TIME	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100
1A FW FLOW INTEGR.	15005	15005	15005	15005	15005	15005	15005	15005	15005	15005	15005	15005	15005	15005	15005	15005	15005	15005	15005	15005	15005	15005	15005	15005
1A FW FLOW (FROM INT) 1/HR																								
1A FW FLOW IND.	222	225	225	222	225	226	229	230	230	230	232	230	230	230	230	230	229	227	228	223	223	221	222	222
TIME	1201	1201	1401	1501	1601	1701	1801	1901	2001	2101	2201	2301	0001	0101	0201	0301	0401	0501	0601	0701	0801	0901	1001	1101
1B FW FLOW INTEGR.	119764	119764	119764	119764	119764	119764	119764	119764	119764	119764	119764	119764	119764	119764	119764	119764	119764	119764	119764	119764	119764	119764	119764	119764
1B FW FLOW (FROM INT) 1/HR																								
1B FW FLOW IND.	218	218	211	210	208	205	205	206	207	207	209	210	210	210	212	215	217	219	220	220	220	220	220	220
TIME	1202	1302	1402	1502	1602	1702	1802	1902	2002	2102	2202	2302	0002	0102	0202	0302	0402	0502	0602	0702	0802	0902	1002	1102
1C FW FLOW INTEGR.	033720	033720	033720	033720	033720	033720	033720	033720	033720	033720	033720	033720	033720	033720	033720	033720	033720	033720	033720	033720	033720	033720	033720	033720
1C FW FLOW (FROM INT) 1/HR																								
1C FW FLOW IND.	213	213	217	217	218	218	220	220	220	220	220	220	218	218	211	217	218	218	218	210	211	211	211	211
TIME	1203	1303	1403	1503	1603	1703	1803	1903	2003	2103	2203	2303	0003	0103	0203	0303	0403	0503	0603	0703	0803	0903	1003	1103
1D FW FLOW INTEGR.	127369	127369	127369	127369	127369	127369	127369	127369	127369	127369	127369	127369	127369	127369	127369	127369	127369	127369	127369	127369	127369	127369	127369	127369
1D FW FLOW (FROM INT) 1/HR																								
1D FW FLOW IND.	227	228	224	222	220	218	219	218	218	218	218	218	219	220	221	220	222	222	225	227	229	229	229	229
ROD POSITIONS																								
No 21	IN	50.41	50.41	50.46	50.61	50.61	50.69	50.69	50.69	50.69	50.69	50.69	50.69	50.69	50.80	50.76	50.85	50.85	50.85	50.94	50.94	50.94	50.94	50.94
No 22	IN	50.53	50.53	50.59	50.53	50.53	50.61	50.61	50.61	50.61	50.61	50.61	50.61	50.61	50.72	50.65	50.71	50.77	50.77	50.77	50.85	50.85	50.85	50.85
No 23	IN	50.59	50.59	50.55	50.59	50.59	50.67	50.67	50.67	50.67	50.67	50.67	50.67	50.67	50.79	50.75	50.83	50.83	50.83	50.92	50.92	50.92	50.92	50.92
No 24	IN	50.59	50.59	50.55	50.59	50.59	50.67	50.67	50.67	50.67	50.67	50.67	50.67	50.67	50.78	50.74	50.83	50.83	50.83	50.92	50.92	50.92	50.92	50.92
No 61	IN	50.72	50.72	50.68	50.72	50.72	50.80	50.80	50.80	50.80	50.80	50.80	50.80	50.80	50.92	50.88	51.00	50.98	50.98	51.07	51.07	51.07	51.07	51.07
No 62	IN	50.75	50.75	50.71	50.75	50.75	50.83	50.83	50.83	50.83	50.83	50.83	50.83	50.83	50.95	50.91	51.03	51.00	51.00	51.00	51.10	51.10	51.10	51.10
No 63	IN	50.71	50.71	50.67	50.71	50.71	50.80	50.80	50.80	50.80	50.80	50.80	50.80	50.80	50.91	50.87	51.00	50.98	50.98	51.07	51.07	51.07	51.07	51.07
No 64	IN	50.74	50.74	50.69	50.74	50.74	50.82	50.82	50.82	50.82	50.82	50.82	50.82	50.82	50.94	50.90	51.03	51.00	51.00	51.00	51.10	51.10	51.10	51.10
No 41	IN	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05
No 42	IN	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
No 43	IN	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98
No 44	IN	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99
GROUP I AVERAGE	IN	69.20	69.20	69.20	69.20	69.20	69.20	69.20	69.20	69.20	69.20	69.20	69.20	69.20	69.20	69.20	69.20	69.20	69.20	69.20	69.20	69.20	69.20	69.20

4011

SHEET NO. 22

COMPANY

DEPARTMENT

DIVISION

COMPILED BY Test Group CHECKED BY _____

DATE 10/1/58

TABLE II

[illegible]

COMPANY
EAP/PMI
DIVISION

Reactivity Lifetime Test

Hourly Readings

COMPILED BY Test Group CHECKED BY DATE 10/11/58 to 10/12/58

TABLE II

BW

10/12/58 to 10/13/58

TABLE II

[illegible]

Rod Positions

[illegible]

ALCET NO. 25

502 503

— 250 —

... १५०५

COMPL. BY EST GROUP CHECKED BY

CONF. BY TEST GROUP CHECKED BY

DATE 10/13/58 TO 10/14/58

TABLE II

[illegible]

ROD POSITIONS

No. 21

22

23

24

61

62

63

64

41

42

43

44

GROUP I AVG.

[illegible]

10/14/58 TO 10/15/58

[illegible][illegible]

27

DATE: _____
Time _____

Total F.W. Flow Integr.	146615.9	146673.2	146734.0	146791.6	146851.7	146911.8	146971.1	147029.9	147089.9	147149.0	147208.5	147266.5	147326	147386.5	147446	147505.5	147564	147623	147682	147743	147803	147863	147924	147984	148047.6
Total F.W. Flow #/hr	90	90	91	91	92	92	91	90	92	92	90	92	92	92	92	92	90	90	90	88	88	88	89	87	
Total F.W. Flow Indic	0500	0600	0700	0804	0900	1000	1100	1200	1301	1401	1501	1600	1700	1800	1900	2000	2100	2200	2300	2400	0100	0200	0300	0400	
Time	0500	0600	0700	0804	0900	1000	1100	1200	1301	1401	1501	1600	1700	1800	1900	2000	2100	2200	2300	2400	0100	0200	0300	0400	
1A F.W. Flow Integr.	157700.5	157756.9	157813.0	157872.9	157935.7	157991.8	158037.8	158093.6	158149.2	158205.7	158261.5	158317.6	158372.5	158429.1	158485	158541	158597	158653	158709	158765	158823	158883	158944	159001.2	
1A F.W. Flow #/hr	228	227	227	227	227	228	225	223	225	225	225	223	223	223	225	223	223	223	223	223	225	225	226	227	
1A F.W. Flow Indic	0501	0601	0701	0805	0901	1001	1101	1201	1301	1401	1501	1601	1701	1801	1901	2001	2101	2201	2301	2401	0101	0201	0301	0401	
Time	0501	0601	0701	0805	0901	1001	1101	1201	1301	1401	1501	1601	1701	1801	1901	2001	2101	2201	2301	2401	0101	0201	0301	0401	
1B F.W. Flow Integr.	165491.2	165549.3	165606.0	165665.7	165725.0	165784.1	165843.9	165903.5	165962.2	166021.7	166081.5	166141.7	166201.5	166261.7	166321.7	166381.5	166441.2	166501.2	166561.2	166621.5	166681.3	166741.9	166801.6	166861.3	
1B F.W. Flow #/hr	215	215	215	215	215	215	213	212	214	214	213	212	212	212	213	213	213	210	210	212	211	212	212	213	
1B F.W. Flow Indic	0502	0602	0702	0806	0902	1002	1102	1202	1302	1402	1502	1602	1702	1802	1902	2002	2102	2202	2302	2402	0102	0202	0302	0402	
Time	0502	0602	0702	0806	0902	1002	1102	1202	1302	1402	1502	1602	1702	1802	1902	2002	2102	2202	2302	2402	0102	0202	0302	0402	
1C F.W. Flow Integr.	014485.6	014540.3	014595.5	014650.3	014705.5	014760.5	014815.9	014871.3	014926.8	014982.3	015037.7	015093.1	015148.5	015203.9	015259.3	015314.5	015369.5	015424.5	015479.5	015534.5	015589.5	015644.5	015699.5	015754.6	
1C F.W. Flow #/hr	216	217	218	220	220	220	218	217	216	216	215	215	215	215	215	213	210	210	217	213	213	214	215	219	
1C F.W. Flow Indic	0503	0603	0703	0807	0903	1003	1103	1203	1303	1403	1503	1603	1703	1803	1903	2003	2103	2203	2303	2403	0103	0203	0303	0403	
Time	0503	0603	0703	0807	0903	1003	1103	1203	1303	1403	1503	1603	1703	1803	1903	2003	2103	2203	2303	2403	0103	0203	0303	0403	
1D F.W. Flow Integr.	134012.7	134069.0	134125.8	134182.5	134239.3	134296.0	134352.7	134409.4	134466.1	134522.8	134579.5	134636.2	134692.9	134749.6	134806.3	134863.0	134919.7	134976.4	135033.1	135089.8	135146.5	135203.2	135259.9	135316.6	
1D F.W. Flow #/hr	222	222	223	223	224	225	222	222	222	225	225	225	223	223	223	223	220	220	220	220	222	222	221	224	
1D F.W. Flow Indic	0502	0602	0702	0806	0902	1002	1102	1202	1302	1402	1502	1602	1702	1802	1902	2002	2102	2202	2302	2402	0102	0202	0302	0402	

Road Positions

[illegible]

DL.
P.S.
S.A. P.S.

TABLE II

Date		10-16																				10-17																			
Time																																									
Total	F.W. Flow Integr	148036.9 148096.4 148157.0 148214.5 148279.5 148333.9 148392.6 148452.0 148516.8 148571.5 148637.7 148690 148749.5 148809.5 148868.5 148928 148986.5 149047.3 149107. 149167.6 149227.2 149287.6 149348.0 149408.2																																							
Total	F.W. Flow #/hr																																								
Total	F.W. Flow Indic																																								
Time																																									
1A	F.W. Flow Integr	159047.8 159109.9 159160.7 159216.7 159272.6 159328.5 159384.5 159440.5 159496.8 159553.7 159609.5 159665 159722.5 159779 159835.5 159891 159948 160004 160062 160118.2 160175.7 160233 160290.5 160347.6																																							
1A	F.W. Flow #/hr																																								
1A	F.W. Flow Indic																																								
Time																																									
1B	F.W. Flow Integr	124782.9 124844.0 124905.0 124966.2 125027.1 125088.5 125149.4 125210.2 125271.3 125332.2 125393.5 125454 125515 125576 125637 125698 125759 125820 125881 125942 126003 126064 126125 126186 126247 126308 126369 126430 126491 126552 126613 126674 126735 126796 126857 126918 126979 127040 127101 127162 127223 127284 127345 127406 127467 127528 127589 127650 127711 127772 127833 127894 127955 128016 128077 128138 128199 128260 128321 128382 128443 128504 128565 128626 128687 128748 128809 128870 128931 128992 129053 129114 129175 129236 129297 129358 129419 129480 129541 129602 129663 129724 129785 129846 129907 129968 130029 130090 130151 130212 130273 130334 130395 130456 130517 130578 130639 130700 130761 130822 130883 130944 131005 131066 131127 131188 131249 131310 131371 131432 131493 131554 131615 131676 131737 131798 131859 131920 131981 132042 132103 132164 132225 132286 132347 132408 132469 132530 132591 132652 132713 132774 132835 132896 132957 133018 133079 133140 133201 133262 133323 133384 133445 133506 133567 133628 133689 133750 133811 133872 133933 133994 134055 134116 134177 134238 134299 134360 134421 134482 134543 134604 134665 134726 134787 134848 134909 134970 135031 135092 135153 135214 135275 135336 135397 135458 135519 135580 135641 135702 135763 135824 135885 135946 136007 136068 136129 136190 136251 136312 136373 136434 136495 136556 136617 136678 136739 136800 136861 136922 136983 137044 137105 137166 137227 137288 137349 137410 137471 137532 137593 137654 137715 137776 137837 137898 137959 138020 138081 138142 138203 138264 138325 138386 138447 138508 138569 138630 138691 138752 138813 138874 138935 138996 139057 139118 139179 139240 139301 139362 139423 139484 139545 139606 139667 139728 139789 139850 139911 139972 140033 140094 140155 140216 140277 140338 140399 140460 140521 140582 140643 140704 140765 140826 140887 140948 141009 141070 141131 141192 141253 141314 141375 141436 141497 141558 141619 141680 141741 141802 141863 141924 141985 142046 142107 142168 142229 142290 142351 142412 142473 142534 142595 142656 142717 142778 142839 142900 142961 143022 143083 143144 143205 143266 143327 143388 143449 143510 143571 143632 143693 143754 143815 143876 143937 143998 144059 144120 144181 144242 144303 144364 144425 144486 144547 144608 144669 144730 144791 144852 144913 144974 145035 145096 145157 145218 145279 145340 145401 145462 145523 145584 145645 145706 145767 145828 145889 145950 146011 146072 146133 146194 146255 146316 146377 146438 146499 146560 146621 146682 146743 146804 146865 146926 146987 147048 147109 147170 147231 147292 147353 147414 147475 147536 147597 147658 147719 147780 147841 147902 147963 148024 148085 148146 148207 148268 148329 148390 148451 148512 148573 148634 148695 148756 148817 148878 148939 149000 149061 149122 149183 149244 149305 149366 149427 149488 149549 149610 149671 149732 149793 149854 149915 149976 150037 150098 150159 150220 150281 150342 150403 150464 150525 150586 150647 150708 150769 150830 150891 150952 151013 151074 151135 151196 151257 151318 151379 151440 151501 151562 151623 151684 151745 151806 151867 151928 151989 152050 152111 152172 152233 152294 152355 152416 152477 152538 152599 152660 1527																																							

Rod Positions

[illegible]

SECRET DL-3-225 29
REACTIVITY LIFETIME TEST
HOURLY READINGS
TEST (NEW 10-17 to

TABLE II

69c

PC#4 682-710

61D

SUBJECT DL-5-225 SHEET NO. 31
D. L. REACTIVITY LIFETIME TEST
P. S. HOURLY READINGS
S.A.P.S. TEST GROUP 10-19-58 TO 10-20

TABLE II

DATE TIME	10-19	10-19	10-19	10-19	10-19	10-19	10-19	10-19	10-19	10-19	10-19	10-19	10-19	10-19	10-19	10-19	10-19	10-19	10-20
TOTAL F.W. FLOW INTEGR.	0215	0315	0415	0515	0615	0715	0815	0915	1015	1115	1215	1315	1415	1515	1615	1715	1815	1915	0015
TOTAL F.W. FLOW (FROM INTEGR) #/HR	152143.5	152202.3	152272.5	152320.5	152381.7	152441.5	152504.3	152560.4	152619.9	152679.2	152737.6	152797.6	152857.0	152916.3	152974.7	153035.5	153094.9	153154.1	153213.8
TOTAL F.W. FLOW INDIC.	91	90	91	91	90	92	92	90	90	89	89	89	90	87	91	91	87	87	90
1A F.W. FLOW INTEGR.	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
1A F.W. FLOW (FROM INTEGR) #/HR	162450	163011.5	163069	163126.2	163182.7	163239.5	163296.3	163352.5	163409.0	163465.5	163521.5	163578.3	163635.1	163691.9	163748.5	163805.8	163863.0	163920.2	163977.3
1A F.W. FLOW INDIC.	227	227	227	227	228	229	229	228	228	228	228	229	229	228	229	229	229	228	228
1B F.W. FLOW INTEGR.	0201	0301	0401	0501	0601	0701	0801	0901	1001	1101	1201	1301	1401	1501	1601	1701	1801	1901	2001
1B F.W. FLOW (FROM INTEGR) #/HR	130485.7	130543.3	130601.8	130660.1	130718.0	130776.0	130834.8	130893.4	130952.2	131011.2	131070.3	131129.2	131188.3	131247.3	131306.3	131365.6	131424.3	131483.3	131542.0
1B F.W. FLOW INDIC.	212	212	215	215	215	218	218	218	218	218	218	219	215	216	217	218	217	216	215
1C F.W. FLOW INTEGR.	0202	0302	0402	0502	0602	0702	0802	0902	1002	1102	1202	1302	1402	1502	1602	1702	1802	1902	2002
1C F.W. FLOW (FROM INTEGR) #/HR	095522.8	095580.5	095638.5	095696.5	095754.5	095812.5	095870.5	095928.5	095986.5	096044.5	096102.5	096160.5	096218.5	096276.5	096334.5	096392.5	096450.5	096508.5	096566.5
1C F.W. FLOW INDIC.	218	218	220	220	220	220	219	219	218	215	218	213	213	215	215	215	216	218	215
1D F.W. FLOW INTEGR.	0203	0303	0403	0503	0603	0703	0803	0903	1003	1103	1203	1303	1403	1503	1603	1703	1803	1903	2003
1D F.W. FLOW (FROM INTEGR) #/HR	137237.5	137295.5	137353.5	137411.5	137469.5	137527.5	137585.5	137643.5	137701.5	137759.5	137817.5	137875.5	137933.5	137991.5	138049.5	138107.5	138165.5	138223.5	138281.5
1D F.W. FLOW INDIC.	223	223	225	225	227	227	227	227	227	225	225	225	223	221	223	222	222	222	221
ROD POSITION																			
No 21	54.85	54.90	54.97	54.91	54.91	54.85	54.85	54.85	54.97	54.97	55.03	55.15	55.20	55.02	55.23	55.18	55.15	55.15	55.24
No 22	54.28	54.33	54.40	54.34	54.34	54.21	54.28	54.28	54.40	54.40	54.45	54.57	54.44	54.44	54.64	54.60	54.57	54.65	54.73
No 23	52.84	52.89	52.96	52.90	52.90	52.84	52.84	52.84	52.96	52.96	53.02	53.14	53.01	53.01	53.21	53.17	53.14	53.14	53.22
No 24	54.83	54.89	54.95	54.90	54.90	54.84	54.84	54.84	54.96	54.96	55.02	55.14	55.01	55.01	55.21	55.17	55.14	55.14	55.22
No 61	54.92	54.95	54.94	54.96	54.96	54.91	54.91	54.91	54.94	54.94	55.00	55.12	55.11	55.11	55.31	55.27	55.24	55.24	55.33
No 62	54.95	54.99	55.07	54.99	54.99	54.94	54.94	54.94	55.07	55.07	55.12	55.24	55.11	55.11	55.31	55.27	55.24	55.24	55.33
No 63	54.91	54.96	54.94	54.96	54.96	54.91	54.91	54.91	55.04	55.04	55.09	55.21	55.08	55.08	55.28	55.24	55.21	55.21	55.29
No 64	54.99	54.99	54.96	54.98	54.98	54.93	54.93	54.93	55.06	55.06	55.12	55.24	55.11	55.11	55.30	55.27	55.23	55.23	55.32
No 41	10.5																		
No 42	1.00																		
No 43	.99																		
No 44	.98																		
GROUP I AVERAGE	69.20																		

DL-5-225 32
 REACTIVITY LIFETIME TEST
 HOURLY READINGS

D.L.
 P.S.
 S.A.P.S.

10/20/58 TC10/

TABLE II

DATE TIME	10-20 10-20	10-20 10-20	10-20 10-20	10-20 10-20	10-20 10-20	10-20 10-20	10-20 10-20	10-20 10-20	10-20 10-20	10-20 10-20	10-20 10-20	10-20 10-20	10-20 10-20	10-20 10-20	10-20 10-20	10-20 10-20	10-20 10-20	10-20 10-20	10-20 10-20			
TOTAL F.W. FLOW INTEGR.	0115	0215	0315	0415	0515	0615	0715	0815	0915	1015	1115	1215	1315	1415	1515	1615	1715	1815	1915	2015	2115	2215
TOTAL F.W. FLOW (FROM INTEGR) #/HR	153519.5	153520.0	153520.4	153520.8	153521.2	153521.6	153522.0	153522.4	153522.8	153523.2	153523.6	153524.0	153524.4	153524.8	153525.2	153525.6	153526.0	153526.4	153526.8	153527.2	153527.6	153528.0
TOTAL F.W. FLOW INDIC.	90	90	89	90	90	89	89	90	90	90	90	88	88	88	88	88	92	89	92	91	91	89
IA F.W. FLOW INTEGR.	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200
IA F.W. FLOW (FROM INTEGR) #/HR	14112.0	14112.0	14112.0	14112.0	14112.0	14112.0	14112.0	14112.0	14112.0	14112.0	14112.0	14112.0	14112.0	14112.0	14112.0	14112.0	14112.0	14112.0	14112.0	14112.0	14112.0	14112.0
IA F.W. FLOW INDIC.	227	227	227	227	227	227	227	226	225	226	226	228	228	228	229	229	229	228	228	227	227	227
IB F.W. FLOW INTEGR.	0101	0201	0301	0401	0501	0601	0701	0801	0901	1001	1101	1201	1301	1401	1501	1601	1701	1801	1901	2001	2101	2201
IB F.W. FLOW (FROM INTEGR) #/HR	13119.2	13119.2	13119.2	13119.2	13119.2	13119.2	13119.2	13119.2	13119.2	13119.2	13119.2	13119.2	13119.2	13119.2	13119.2	13119.2	13119.2	13119.2	13119.2	13119.2	13119.2	13119.2
IB F.W. FLOW INDIC.	212	212	213	215	215	215	215	215	216	216	216	219	219	219	220	220	218	217	217	216	214	212
IC F.W. FLOW INTEGR.	0102	0202	0302	0402	0502	0602	0702	0802	0902	1002	1102	1202	1302	1402	1502	1602	1702	1802	1902	2002	2102	2202
IC F.W. FLOW (FROM INTEGR) #/HR	095771.8	095771.8	095771.8	095771.8	095771.8	095771.8	095771.8	095771.8	095771.8	095771.8	095771.8	095771.8	095771.8	095771.8	095771.8	095771.8	095771.8	095771.8	095771.8	095771.8	095771.8	095771.8
IC F.W. FLOW INDIC.	217	217	220	220	220	221	219	220	217	217	217	215	215	215	215	215	215	215	215	216	215	215
ID F.W. FLOW INTEGR.	0103	0203	0303	0403	0503	0603	0703	0803	0903	1003	1103	1203	1303	1403	1503	1603	1703	1803	1903	2003	2103	2203
ID F.W. FLOW (FROM INTEGR) #/HR	140525.3	140525.3	140525.3	140525.3	140525.3	140525.3	140525.3	140525.3	140525.3	140525.3	140525.3	140525.3	140525.3	140525.3	140525.3	140525.3	140525.3	140525.3	140525.3	140525.3	140525.3	140525.3
ID F.W. FLOW INDIC.	223	223	226	228	228	227	227	228	227	225	225	225	223	225	225	223	223	222	223	222	220	221
ROD POSITION																						
No 21	55.35	55.36	55.48	55.44	55.43	55.39	55.39	55.49	55.49	55.57	55.57	55.57	55.57	55.57	55.57	55.57	55.57	55.57	55.57	55.57	55.57	55.57
No 22	54.77	54.78	54.90	54.86	54.85	54.81	54.81	54.90	54.90	54.98	54.98	54.99	54.99	55.06	55.06	55.06	55.06	55.06	55.06	55.06	55.06	55.06
No 23	55.34	55.35	55.46	55.43	55.42	55.38	55.38	55.47	55.47	55.55	55.55	55.55	55.55	55.61	55.61	55.61	55.61	55.61	55.61	55.61	55.61	55.61
No 24	55.33	55.34	55.46	55.43	55.42	55.38	55.38	55.47	55.47	55.55	55.55	55.55	55.55	55.61	55.61	55.61	55.61	55.61	55.61	55.61	55.61	55.61
No 61	54.92	54.92	55.01	55.00	54.96	54.96	55.05	55.05	55.14	55.14	55.14	55.14	55.14	55.20	55.20	55.20	55.20	55.20	55.20	55.20	55.20	55.20
No 62	55.45	55.45	55.57	55.54	55.53	55.49	55.49	55.58	55.58	55.66	55.66	55.66	55.66	55.73	55.73	55.73	55.73	55.73	55.73	55.73	55.73	55.73
No 63	55.41	55.41	55.54	55.50	55.49	55.46	55.46	55.55	55.55	55.64	55.64	55.64	55.64	55.70	55.70	55.70	55.70	55.70	55.70	55.70	55.70	55.70
No 64	55.44	55.44	55.56	55.53	55.52	55.48	55.48	55.57	55.57	55.66	55.66	55.66	55.66	55.73	55.73	55.73	55.73	55.73	55.73	55.73	55.73	55.73
No 41	1.05																					
No 42	1.00																					
No 43	.98																					
No 44	.99																					
GROUP I AVERAGE	69.20																					

● 2014 年 12 月 1 日

694

34

D.L.

PS

SAPS

10-21-58 To 10-22-58

TABLE II

ROD POSITIONS

NO. 21	IN. 56.31 56.31 56.32 56.35 56.44 56.44 56.44 56.44 56.40 56.40 56.40 56.45 56.40 56.40 56.70 56.70 56.71 56.60 56.70 56.80 56.72 56.72 56.72
NO. 22	IN. 55.73 55.73 55.68 55.76 55.85 55.85 55.85 55.86 55.82 56.82 56.82 55.82 55.82 55.95 55.95 55.93 55.93 56.02 56.02 56.02 56.15 56.15 56.15
NO. 23	IN. 56.30 56.30 56.25 56.33 55.92 55.92 55.92 56.42 56.38 56.38 56.38 56.38 56.38 56.54 56.54 56.54 56.91 56.58 56.58 56.58 56.70 56.70 56.70
NO. 24	IN. 56.30 56.30 56.25 56.33 55.92 55.92 55.92 56.42 56.38 56.38 56.38 56.38 56.38 56.54 56.54 56.54 56.91 56.58 56.58 56.58 56.70 56.70 56.70
NO. 61	IN. 55.92 55.92 55.89 55.96 56.04 56.04 56.04 56.05 56.01 56.01 56.01 56.01 56.01 56.17 56.17 56.17 56.17 56.17 56.21 56.21 56.34 56.34 56.34
NO. 62	IN. 56.44 56.44 56.37 56.49 56.57 56.57 56.57 56.57 56.53 56.53 56.53 56.53 56.53 56.70 56.70 56.70 56.70 56.74 56.74 56.74 56.87 56.87 56.87
NO. 63	IN. 56.41 56.41 56.39 56.46 56.54 56.54 56.54 56.54 56.50 56.50 56.50 56.50 56.50 56.67 56.67 56.67 56.67 56.73 56.73 56.73 56.83 56.83 56.83
NO. 64	IN. 56.44 56.44 56.37 56.48 56.55 56.54 56.54 56.57 56.53 56.53 56.53 56.53 56.53 56.69 56.69 56.69 56.69 56.73 56.73 56.73 56.86 56.86 56.86
NO. 41	IN. 105
NO. 42	IN. 100
NO. 43	IN. 0.99
NO. 44	IN. 0.98

GROUP I AUG. 1962

БАН

SHEET NO. 35

DUQUESNE LIGHT

REACTIVITY LIFETIME

POWER STATIONS

SARS

DIVISION

COMPILED BY

CYFCRFB 31

10-22-58 to 10-23-58

TABLE II

[illegible]

6A5

SUBJECT AL-S-225 Section I SHEET NO 2

DL

COMPANY

Reactivity, Lifetime

PS

DEPARTMENT

SAPS

DIVISION

COPIED BY Test Group

CHECKED BY

DATE 9/23/58-9/29/58

Table III (cont'd)

Page 58

Date/Time	9-23-58 1900	2300	9-24-58 0300	0700	1000	1500	1900	2300	9-25-58 0300	0700	1100	1500	1900	2300	9-26-58 0300	0700	1100	1500	1900	2300	9-27-58 0300	0700	1000	1500	1900	2300	9-28-58 0300	0700	1000	1500	1900	2300
1A Coolant Loop Th	510.4	510.9	510.2	510.2	511.0	510.3	510.0	510.0	510.9	511.0	510.2	510.5	510.3	510.9	510.0	510.9	510.7	510.9	510.2	510.3	510.2	510.7	511.2	511.0								
1B Coolant Loop Th	510.5	511.0	510.2	510.5	511.1	510.3	510.0	511.0	511.2	511.0	510.9	510.5	510.3	510.0	510.0	510.9	510.3	510.0	510.0	510.1	510.2	510.7	511.5	511.0								
1C Coolant Loop Th	510.6	510.1	509.8	510.0	510.8	510.0	509.9	510.5	510.6	510.0	509.9	510.0	509.9	510.1	510.0	509.5	510.1	510.0	510.3	510.2	509.8	509.6	509.5	510.0	510.2							
1D Coolant Loop Th	510.9	511.0	510.4	510.8	511.4	510.9	510.1	511.1	511.3	511.2	510.6	510.8	510.4	510.0	510.2	510.9	510.8	510.2	511.5	510.5	510.3	510.9	511.8	510.0								
1A Coolant Loop Tc	487.9	487.1	486.8	487.0	487.7	486.8	486.3	487.7	487.6	487.3	487.1	487.1	486.7	487.1	487.4	487.0	487.1	487.2	487.2	487.6	487.7	488.0	487.8	487.2								
1B Coolant Loop Tc	488.1	488.0	487.5	488.0	488.6	487.9	487.2	488.6	488.3	488.2	488.0	487.9	487.7	488.0	487.5	487.9	488.0	488.2	488.2	487.7	487.7	488.0	488.6	487.0								
1C Coolant Loop Tc	488.2	488.0	487.5	487.7	488.1	487.9	487.9	488.5	488.7	488.4	488.2	488.1	487.9	488.0	487.3	488.0	488.0	488.0	488.5	487.8	487.9	487.8	488.9	488.2								
1D Coolant Loop Tc	488.0	487.9	487.2	487.6	488.0	487.6	487.1	488.9	488.3	488.2	488.2	488.1	487.4	487.8	487.2	488.1	488.0	488.1	488.0	487.2	487.2	487.3	487.9	487.5								
1A Coolant Loop Flow	7.26	7.24	7.24	7.24	7.21	7.22	7.24	7.27	7.24	7.24	7.23	7.24	7.24	7.25	7.25	7.23	7.25	7.23	7.22	7.23	7.23	7.23	7.23	7.23								
1B Coolant Loop Flow	7.13	7.13	7.13	7.11	7.10	7.12	7.13	7.13	7.12	7.12	7.12	7.11	7.12	7.13	7.13	7.12	7.11	7.12	7.12	7.13	7.13	7.13	7.12	7.12								
1C Coolant Loop Flow	7.26	7.26	7.26	7.26	7.25	7.24	7.28	7.27	7.26	7.26	7.24	7.26	7.26	7.27	7.28	7.25	7.25	7.24	7.26	7.27	7.27	7.22	7.26	7.26								
1D Coolant Loop Flow	7.12	7.11	7.12	7.11	7.11	7.10	7.11	7.11	7.11	7.12	7.10	7.10	7.11	7.11	7.11	7.11	7.10	7.12	7.10	7.12	7.11	7.12	7.11	7.11								
1A Coolant Loop Pressure	1810	1820	1820	1820	1810	1830	1810	1815	1820	1820	1810	1810	1815	1815	1815	1820	1820	1815	1810	1820	1820	1810	—	—								
1B Coolant Loop Pressure	1840	1835	1840	1840	1830	1830	1835	1830	1835	1840	1840	1835	1835	1835	1835	1840	1835	1830	1830	1840	1835	—	—	—								
1C Coolant Loop Pressure	1805	1810	1810	1810	1810	1810	1810	1805	1810	1810	1820	1815	1805	1810	1810	1810	1800	1805	1805	1820	1810	1810	—	—								
1D Coolant Loop Pressure	1850	1850	1860	1860	1850	1850	1860	1850	1855	1850	1860	1865	1855	1850	1850	1855	1850	1855	1850	1845	1850	1850	—	—								
Coolant Avg. Temperature	500.0	500.0	499.4	499.3	500.0	499.8	499.5	500.1	500.3	500.2	500.0	499.9	499.6	499.8	499.9	500.0	499.9	500.0	500.3	499.6	499.6	499.5	—	—								
Temp. Error	-0.1	-0.1	-0.6	-0.7	-0.1	-0.2	-0.5	+0.1	+0.01	+0.25	—	—	—	—	—	—	—	—	—	—	—	—	—	—								
Date/Time	9-23-58 1900	1100	1500	1900	2300	9-24-58 0300	0700	1100	1500	1900	2300	9-25-58 0300	0700	1100	1500	1900	2020	2040	2100	2120	2140	2200	2240	2300								
1A Coolant Loop Th	510.2	510.8	510.6	510.3	510.8	510.9	510.3	511.1	510.6	510.8	510.6	510.8	511.1	511.0	510.8	510.9	510.9	510.9	510.9	510.9	510.9	510.9	510.9	510.4								
1B Coolant Loop Th	510.2	511.0	510.5	510.4	511.0	511.0	510.2	511.0	510.8	511.0	510.6	510.8	511.1	511.0	510.8	511.1	511.0	511.1	511.1	511.1	511.1	511.1	511.1	510.4								
1C Coolant Loop Th	509.6	510.3	510.0	509.8	510.1	510.0	509.6	510.7	50.3	510.0	509.7	510.0	510.3	510.4	509.8	509.9	510.3	510.1	510.0	510.0	510.0	510.0	509.7	509.3								
1D Coolant Loop Th	510.3	511.2	510.7	510.7	511.1	511.2	510.3	511.2	511.0	511.0	510.6	510.9	511.3	511.2	510.9	510.9	511.2	511.2	511.2	511.2	511.2	511.2	511.2	510.2								
1A Coolant Loop Tc	486.8	487.2	487.1	487.0	487.2	487.4	486.9	488.3	487.1	487.2	487.0	487.0	487.3	487.8	487.3	487.2	487.7	487.7	487.8	487.8	487.3	487.3	487.2	487.2								
1B Coolant Loop Tc	487.8	488.2	488.0	488.0	488.2	488.2	487.9	488.5	488.0	488.1	488.0	488.1	488.3	488.1	488.2	488.0	488.3	488.5	488.6	488.3	488.5	488.5	488.1	488.1								
1C Coolant Loop Tc	488.0	488.1	488.1	488.1	488.2	487.9	488.1	488.1	488.0	488.0	488.0	488.0	488.2	488.4	488.4	488.0	488.1	488.0	488.0	488.0	488.0	488.0	488.0	488.0								
1D Coolant Loop Tc	487.2	487.6	487.8	487.5	487.6	487.9	487.4	488.1	487.8	487.7	487.1	487.3	487.7	487.9	487.7	487.3	488.0	487.7	487.9	487.9	488.0	487.8	487.5									
1A Coolant Loop Flow	7.23	7.23	7.23	7.24	7.25	7.24	7.23	7.27	7.24	7.22	7.24	7.23	7.23	7.26	7.23	7.21	7.25	7.25	7.25	7.25	7.25	7.25	7.25	7.25								
1B Coolant Loop Flow	7.12	7.12	7.12	7.12	7.12	7.12	7.12	7.12	7.12	7.12	7.11	7.13	7.13	7.13	7.14	7.12	7.15	7.12	7.13	7.12	7.12	7.12	7.12	7.11								
1C Coolant Loop Flow	7.26	7.26	7.27	7.27	7.27	7.26	7.26	7.28	7.25	7.25	7.25	7.25	7.26	7.27	7.26	7.26	7.25	7.25	7.27	7.26	7.26	7.25	7.25	7.26								
1D Coolant Loop Flow	7.11	7.12	7.12	7.11	7.11	7.11	7.11	7.12	7.11	7.10	7.11	7.11	7.11	7.11	7.11	7.11	7.11	7.11	7.10	7.10	7.10	7.10	7.10	7.11								
1A Coolant Loop Pressure	—	1810	1810	1820	1820	1820	1820	1820	1820	1810	1810	1820	1820	1815	1815	1820	1810	1810	1810	1820	1820	1820	1820	1810								
1B Coolant Loop Pressure	—	1830	1830	1835	1835	1835	1840	1840	1835	1830	1830	1830	1835	1840	1840	1830	1830	1830	1830	1840	1835	1835	1835	1840								
1C Coolant Loop Pressure	—	1810	1810	1815	1815	1810	1810	1810	1810	1810	1810	1805	1805	1805	1810	1810	1810	1815	1815	1810	1810	1810	1810	1810								
1D Coolant Loop Pressure	—	1850	1850	1855	1855	1850	1855	1855	1855	1850	1850	1850	1850	1850	1850	1850	1850	1850	1855	1855	1855	1855	1855	1850								
Coolant Avg. Temperature	—	500.0	499.8	499.8	499.9	500.0	499.5	500.0	499.9	499.9	499.8	499.8	499.8	500.0	499.8	499.8	499.8	499.8	499.9	500.0	499.5	—	—	—								
Temperature Error	—	-0.2	-0.25	+0.05	+0.04	0.0	-0.17	-0.14	+0.01	+0.22	-0.25	-0.31	-0.12	-0.10	-0.22	-0.20	-0.25	+0.05	+0.04	0.0	-0.47	—	—	—								

SUBJECT **DL-S-225**SHEET NO. **4****DL**

COMPANY

SECTION I**PS**

DEPARTMENT

REACTIVITY LIFETIME**SAPS**

DIVISION

COMPILED BY **TESTGROUP**

CHECKED BY

DATE **10/4 - 10/7/58****TABLE III (cont.)**

DATE/TIME		10-4 0700	10-4 1100	10-4 1500	10-4 1900	10-4 2300	10-4 0300	10-4 0700	10-4 1100	10-4 1500	10-4 1900	10-4 2300	10-5 0300	10-5 0700	10-5 1100	10-5 1500	10-5 1900	10-5 2300	10-6 0300	10-6 0700	10-6 1100	10-6 1500	10-6 1900	10-6 2300
1A COOLANT LOOP TH	°F	510.0	510.5	510.3	510.2	510.0	510.3	510.8	510.5	510.3	510.2	510.0	510.3	510.8	510.0	510.0	510.0	510.0	511.0	511.0	510.8	510.5	510.7	510.5
1B COOLANT LOOP TH	°F	510.5	510.9	511.0	511.1	510.5	509.9	510.9	510.9	511.0	511.1	510.5	509.9	510.9	510.6	511.0	510.1	509.3	510.8	510.1	510.0	510.0	510.8	511.4
1C COOLANT LOOP TH	°F	510.3	509.8	509.5	510.0	510.0	510.2	510.5	509.8	509.5	510.0	510.0	510.2	510.5	509.2	509.1	509.5	509.6	511.0	510.8	510.1	510.1	510.0	509.5
1D COOLANT LOOP TH	°F	510.5	510.8	510.9	511.0	510.9	510.1	511.0	510.8	510.9	511.0	510.9	510.1	511.0	510.3	510.6	510.6	510.0	511.1	510.9	510.5	510.1	510.9	511.0
1A COOLANT LOOP TC	°F	487.8	487.5	487.3	487.5	487.8	487.4	488.0	487.5	487.3	487.5	487.8	487.4	488.0	487.4	487.5	487.0	487.1	488.0	488.0	487.8	487.5	487.7	487.0
1B COOLANT LOOP TC	°F	488.0	488.3	488.0	488.4	488.2	487.2	488.5	488.3	488.0	488.4	488.2	487.8	488.5	488.0	488.0	487.8	487.2	488.1	488.0	488.0	487.8	487.9	488.1
1C COOLANT LOOP TC	°F	488.7	488.1	488.0	488.2	488.5	488.4	488.4	488.1	488.0	488.2	488.5	488.4	488.4	488.0	488.0	488.0	488.0	488.8	489.0	489.0	488.5	488.6	488.2
1D COOLANT LOOP TC	°F	487.9	488.3	487.2	487.5	487.5	488.2	487.6	487.3	487.2	487.5	487.5	488.2	487.6	487.1	487.2	487.0	487.0	487.8	487.5	487.4	487.0	487.2	487.6
1A COOLANT LOOP FLOW	10 ⁻⁴ g/hr	7.25	7.25	7.25	7.25	7.25	7.25	7.25	7.25	7.25	7.25	7.25	7.25	7.25	7.25	7.25	7.25	7.26	7.27	7.27	7.27	7.27	7.26	7.26
1B COOLANT LOOP FLOW	10 ⁻⁴ g/hr	7.18	7.18	7.18	7.18	7.18	7.18	7.18	7.18	7.18	7.18	7.18	7.18	7.18	7.18	7.17	7.18	7.18	7.18	7.18	7.19	7.19	7.19	7.18
1C COOLANT LOOP FLOW	10 ⁻⁴ g/hr	7.26	7.28	7.27	7.27	7.26	7.27	7.28	7.27	7.27	7.27	7.26	7.27	7.28	7.28	7.28	7.27	7.27	7.28	7.28	7.28	7.28	7.27	7.27
1D COOLANT LOOP FLOW	10 ⁻⁴ g/hr	7.11	7.12	7.12	7.12	7.12	7.12	7.12	7.12	7.12	7.12	7.12	7.12	7.12	7.12	7.13	7.12	7.13	7.12	7.15	7.15	7.15	7.13	7.13
1A COOLANT LOOP PRESSURE	psig	1810	1820	1820	1820	1820	1820	1820	1820	1820	1820	1820	1820	1820	1820	1820	1820	1815	1820	1820	1820	1820	1810	1810
1B COOLANT LOOP PRESSURE	psig	1836	1840	1840	1840	1840	1840	1830	1840	1840	1840	1840	1840	1830	1830	1835	1840	1840	1840	1840	1840	1840	1835	1840
1C COOLANT LOOP PRESSURE	psig	1805	1810	1810	1810	1810	1810	1810	1810	1810	1810	1810	1810	1810	1810	1810	1810	1810	1810	1805	1805	1805	1800	1805
1D COOLANT LOOP PRESSURE	psig	1850	1850	1850	1850	1850	1850	1850	1850	1850	1850	1850	1850	1840	1845	1850	1845	1855	1855	1855	1855	1855	1855	1855
COOLANT AVG TEMP	°F	500.0	500.0	500.0	500.0	500.0	500.0	500.0	500.0	500.0	500.0	500.0	500.0	500.0	499.8	500.0	499.8	499.4	500	500.2	500.2	500	500.2	500.2
TEMP. ERROR	°F	-0.2	-0.2	0.0	+0.1	-0.05	-0.01	-0.2	0.0	+0.1	-0.05	-0.01	-1	-1.4	-0.22	-0.59							+0.2	
Date/Time		10-6 1500	1900	2300	0100	0500	0900	1300	1700	2100	0100	0500	0900	1300	1700	2100	0100	0500	0900	1300	1700	2100	0100	0500
1A Coolant Loop TH	°F	510.0	510.1	510.1	510.5	509.9	510.1	510.9	510.9	510.9	510.3	510.5	510.8	510.8	510.9	510.6	509.8	510.3	510.2	510.0	510.0	510.3	510.5	510.9
1B Coolant Loop TH	°F	511.0	510.5	509.6	509.8	509.3	509.6	510.0	510.1	510.0	510.6	510.2	510.8	511.0	511.0	510.8	510.3	511.2	511.1	511.0	511.0	511.1	511.2	511.3
1C Coolant Loop TH	°F	509.3	510.0	510.0	510.2	510.0	510.0	510.5	510.5	510.1	509.9	509.8	510.0	510.0	509.8	509.1	508.3	509.4	509.3	509.2	509.4	509.7	510.0	510.6
1D Coolant Loop TH	°F	511.0	510.9	510.0	510.3	509.8	510.0	510.6	510.9	510.2	509.9	509.3	510.8	510.9	511.1	510.3	510.0	511.0	511.0	511.0	511.0	511.1	511.3	511.8
1A Coolant Loop TC	°F	487.3	487.5	487.1	487.9	487.3	487.3	487.9	487.8	487.6	487.4	487.7	487.7	487.9	487.8	487.9	487.0	487.6	487.8	487.8	487.5	487.6	487.8	487.9
1B Coolant Loop TC	°F	488.0	487.9	487.0	487.8	487.4	487.2	487.9	487.8	487.2	487.4	487.7	487.9	488.0	488.1	487.9	487.7	488.3	488.3	488.2	488.2	488.5	488.3	488.5
1C Coolant Loop TC	°F	488.0	488.0	487.9	488.9	488.3	488.2	488.2	488.6	488.6	488.1	488.1	488.1	488.0	488.0	488.0	487.8	487.9	488.0	488.0	488.0	488.0	488.3	488.7
1D Coolant Loop TC	°F	487.2	487.3	487.0	487.2	486.9	486.9	487.1	487.3	487.1	487.1	487.0	487.0	487.1	487.9	487.2	486.8	487.3	487.3	487.3	487.2	487.2	487.6	487.7
1A Coolant Loop Flow	10 ⁻⁴ g/hr	7.25	7.25	7.24	7.24	7.24	7.25	7.22	7.24	7.27	7.24	7.27	7.27	7.24	7.25	7.25	7.26	7.26	7.26	7.27	7.28	7.27	7.27	7.25
1B Coolant Loop Flow	10 ⁻⁴ g/hr	7.19	7.18	7.19	7.19	7.18	7.19	7.19	7.18	7.16	7.18	7.17	7.17	7.16	7.16	7.18	7.18	7.18	7.18	7.17	7.18	7.18	7.18	7.17
1C Coolant Loop Flow	10 ⁻⁴ g/hr	7.28	7.27	7.28	7.28	7.28	7.27	7.26	7.26	7.28	7.28	7.28	7.28	7.27	7.27	7.27	7.27	7.27	7.27	7.27	7.27	7.27	7.26	7.27
1D Coolant Loop Flow	10 ⁻⁴ g/hr	7.13	7.13	7.13	7.13	7.13	7.12	7.11	7.11	7.12	7.12	7.12	7.12	7.11	7.10	7.13	7.13	7.12	7.12	7.12	7.12	7.12	7.13	7.13
1A Coolant Loop Pressure	psig	1810	1820	1820	1820	—	1810	—	1820	1820	1820	1820	1820	1810	1820	1820	1825	1820	1815	1815	1820	—	1820	1810
1B Coolant Loop Pressure	psig	1840	1840	1840	1840	—	1830	—	1840	1840	1840	1840	1840	1830	1840	1840	1850	1850	1840	1840	—	1840	1835	1835
1C Coolant Loop Pressure	psig	1810	1810	1805	1805	—	1805	—	1805	1810	1815	1815	1810	1800	1805	1805	1830	1810	1810	1810	—	1810	1800	1805
1D Coolant Loop Pressure	psig	1855	1855	1855	1855	—	1855	—	1855	1855	1855	1850	1850	1850	1855	1855	1855	1855	1855	1855	—	1855	1855	1855
Coolant Avg Temp	°F	500.2	500.0	499.6	499.9	—	499.9	—	500.1	500.1	499.9	499.9	500.0	500.0	500.2	500.0	499.7	500.1	500.1	500.1	499.9	—	500.0	500.2
Temp error	°F	+0.1	0.0	-0.5	-0.18	-0.19	-0.22	-0.09	+0.08	—	-0.1	-0.14	-0.11	0.0	0.0	0.0	—	-1.0	0.0	-0.3	-0.26	+0.1	-1.1	+0.7

SUBJECT DL-S-225 SHEET NO. 5

DL
PS
SAPS
REACTIVITY LIFETIME
COMPILED BY TEST GROUP CHECKED BY DATE 10/1/58

TABLE III
10-8-58

DATE/TIME			10-7-58 1800	1900	2000	2030	2100	2130	2200	2230	2300	2330	2400	0030	0300	0700	1100	1500	1900	2030	2100	2130	2200	2230	2300
1A COOLANT LOOP TH	°F		511.0	510.0	509.4	510.5	510.2	510.0	510.2	510.2	510.0	510.4	510.4	510.6	511.1	510.1	510.5	509.0	509.9	510.0	510.0	510.0	510.2	510.1	510.0
1B COOLANT LOOP TH	°F		511.5	510.0	508.9	510.0	509.8	509.2	509.5	509.5	509.0	509.6	509.5	509.8	510.8	510.8	511.9	510.0	509.1	509.1	509.1	509.1	509.1	509.1	509.0
1C COOLANT LOOP TH	°F		511.0	510.0	509.1	510.8	510.3	510.0	510.3	510.2	509.9	510.5	510.2	510.2	510.8	509.7	509.8	509.0	509.8	510.0	510.0	510.0	510.0	510.0	510.0
1D COOLANT LOOP TH	°F		511.9	510.4	509.4	510.8	510.3	509.9	510.0	510.0	509.6	510.2	510.0	510.1	510.8	510.3	511.7	510.2	509.9	509.9	509.7	509.9	509.9	509.9	509.8
1A COOLANT LOOP TC	°F		488.2	487.2	486.5	487.7	487.5	487.2	487.8	487.8	487.5	487.0	487.8	488.2	487.6	488.0	487.2	487.0	487.5	487.2	487.6	487.5	487.6	487.3	487.3
1B COOLANT LOOP TC	°F		488.6	487.2	486.5	487.7	487.5	487.0	487.5	487.5	487.2	487.9	487.6	487.6	488.1	488.0	488.8	487.7	487.0	487.1	487.0	487.0	487.1	487.1	487.1
1C COOLANT LOOP TC	°F		488.8	488.0	487.4	488.0	488.0	488.0	488.0	488.0	488.0	488.0	488.0	488.6	488.6	488.9	488.0	488.0	488.1	488.1	488.0	488.0	488.0	488.1	488.1
1D COOLANT LOOP TC	°F		487.9	486.9	486.0	487.0	487.0	486.5	486.9	486.9	486.9	487.0	487.2	487.1	487.6	487.1	487.7	487.0	487.6	487.6	487.6	487.6	487.6	487.6	487.6
1A COOLANT LOOP FLOW	10 ³ GPM		7.25	7.25	7.25	7.25	7.25	7.25	7.25	7.25	7.26	7.26	7.26	7.26	7.27	7.26	7.25	7.25	7.27	7.26	7.26	7.26	7.25	7.25	7.26
1B COOLANT LOOP FLOW	10 ³ GPM		7.18	7.18	7.18	7.18	7.18	7.19	7.18	7.18	7.19	7.19	7.19	7.17	7.18	7.18	7.19	7.17	7.19	7.19	7.19	7.19	7.19	7.19	7.19
1C COOLANT LOOP FLOW	10 ³ GPM		7.27	7.27	7.27	7.27	7.27	7.28	7.28	7.28	7.29	7.29	7.29	7.28	7.28	7.28	7.28	7.26	7.29	7.28	7.28	7.28	7.28	7.28	7.28
1D COOLANT LOOP FLOW	10 ³ GPM		7.13	7.13	7.13	7.13	7.13	7.13	7.13	7.13	7.13	7.13	7.13	7.13	7.14	7.13	7.14	7.12	7.13	7.13	7.13	7.13	7.13	7.13	7.13
1A COOLANT LOOP PRESSURE	PSIG		1810	1810	1810	1820	1810	1810	1810	1820	1820	1825	1825	1825	1820	1820	1820	1815	—	—	—	—	—	—	1820
1B COOLANT LOOP PRESSURE	PSIG		1840	1840	1840	1840	1840	1840	1840	1840	1840	1840	1840	1840	1840	1840	1840	1840	1845	—	—	—	—	—	1845
1C COOLANT LOOP PRESSURE	PSIG		1805	1805	1810	1810	1810	1810	1810	1810	1810	1810	1810	1810	1810	1810	1810	1805	—	—	—	—	—	—	1800
1D COOLANT LOOP PRESSURE	PSIG		1855	1850	1850	1850	1850	1850	1850	1850	1850	1850	1850	1850	1855	1855	1855	1850	—	—	—	—	—	—	1855
COOLANT AVG. TEMP.	°F		500.2	499.9	499.0	499.9	499.9	499.8	499.9	499.9	499.8	499.5	500	500	500.2	500.1	500.4	499.7	499.6	—	—	—	—	—	499.8
TEMP. ERROR	°F		-0.15	-0.1	-0.92	-0.29	-0.29	-0.3	-0.32	-0.32	-0.38	-0.45	-0.18	-0.18	+0.09	+0.09	+0.4	-0.4	-0.11	-0.2	-0.3	-0.3	-0.1	-0.2	-0.2
DATE/TIME			2330	2400	0030	0100	0300	0700	0930	1000	1030	1100	1130	1200	1230	1300	1330	1500	1830	1900	1930	2000	2030	2100	2130
1A COOLANT LOOP TH	°F		510.2	509.9	511.0	511.0	510.8	509.8	510.0	509.3	509.2	509.3	509.5	509.8	509.9	510.1	509.9	510.0	510.6	510.9	510.9	510.9	510.6	510.1	510.8
1B COOLANT LOOP TH	°F		509.7	509.9	510.0	510.1	510.5	510.5	511.9	511.0	511.0	511.0	511.0	510.8	511.0	511.0	510.9	510.2	509.9	510.0	509.9	509.9	509.5	509.4	510.0
1C COOLANT LOOP TH	°F		510.1	510.3	510.7	510.3	510.0	508.5	509.3	508.9	509.0	508.8	509.0	509.0	509.4	509.7	509.4	510.0	510.5	510.7	510.7	510.8	510.5	509.8	510.5
1D COOLANT LOOP TH	°F		510.0	510.0	510.2	510.5	510.2	510.0	511.3	511.0	511.0	510.9	511.1	511.0	511.5	511.5	511.0	510.9	510.7	510.3	510.5	510.2	510.0	509.5	510.0
1A COOLANT LOOP TC	°F		487.9	487.9	488.0	488.0	488.0	487.5	487.8	487.1	487.1	487.0	487.1	487.1	487.5	487.6	487.5	487.6	487.9	487.9	487.9	487.8	487.5	487.5	488.0
1B COOLANT LOOP TC	°F		487.5	487.7	487.9	488.0	488.0	488.0	488.5	487.9	488.0	487.9	487.9	488.0	488.1	488.1	488.0	487.8	487.9	487.6	487.6	487.5	487.2	487.2	487.7
1C COOLANT LOOP TC	°F		488.0	488.2	488.2	488.4	488.4	488.0	487.9	487.5	487.5	487.5	487.8	487.6	487.8	487.8	488.2	488.0	488.0	488.0	488.0	488.1	488.2	488.3	488.5
1D COOLANT LOOP TC	°F		487.0	487.0	487.0	487.0	487.1	487.0	487.2	487.0	487.0	487.0	487.0	487.1	487.1	487.0	487.1	487.1	487.1	487.0	487.0	486.9	486.9	486.5	487.0
1A COOLANT LOOP FLOW	10 ³ GPM		7.24	7.25	7.26	7.25	7.25	7.25	7.25	7.25	7.25	7.25	7.25	7.25	7.25	7.25	7.25	7.25	7.27	7.27	7.27	7.27	7.27	7.27	7.27
1B COOLANT LOOP FLOW	10 ³ GPM		7.19	7.17	7.17	7.18	7.19	7.18	7.18	7.18	7.18	7.18	7.18	7.18	7.18	7.18	7.18	7.19	7.18	7.18	7.18	7.18	7.19	7.19	7.19
1C COOLANT LOOP FLOW	10 ³ GPM		7.27	7.27	7.27	7.27	7.27	7.27	7.27	7.27	7.26	7.26	7.26	7.26	7.26	7.26	7.25	7.26	7.28	7.28	7.28	7.28	7.29	7.29	7.28
1D COOLANT LOOP FLOW	10 ³ GPM		7.14	7.13	7.11	7.11	7.12	7.12	7.12	7.13	7.13	7.11	7.11	7.11	7.11	7.11	7.12	7.13	7.13	7.13	7.13	7.13	7.13	7.13	7.13
1A COOLANT LOOP PRESSURE	PSIG		—	—	—	—	1810	1810	1810	1810	1810	1810	1810	1810	1810	1810	1810	1810	1815	1815	1810	1815	1820	1810	1810
1B COOLANT LOOP PRESSURE	PSIG		—	—	—	—	1830	1840	1840	1840	1840	1840	1840	1840	1840	1840	1840	1840	1840	1840	1840	1840	1845	1845	1840
1C COOLANT LOOP PRESSURE	PSIG		—	—	—	—	1805	1805	1805	1805	1800	1800	1800	1810	1810	1810	1800	1800	1805	1805	1800	1800	1810	1800	1800
1D COOLANT LOOP PRESSURE	PSIG		—	—	—	—	1850	1860	1850	1850	1850	1850	1850	1850	1850	1850	1850	1850	1855	1855	1855	1855	1855	1855	1850
COOLANT AVERAGE TEMP.	°F		—	—	—	—	500.0	499.9	500.0	500.0	499.9	499.9	499.9	499.9	499.9	499.9	500.0	499.7	499.8	499.9	499.9	499.9	499.9	499.9	500.0
TEMP. ERROR	°F		-0.1	-0.1	-0.12	-0.1	-0.09	-0.0	+0.00	-0.08	-0.10	-0.12	-0.15	-0.18	-0.3	-0.2	-0.3	-0.9	-0.33	-0.24	-0.27	-0.24	0.0	-0.20	-0.15

SUBJECT DL-S-225 SHEET NO. 6

DL COMPART Section I

PS DEPARTMENT REACTIVITY LIFETIME

SAPS DIVISION COMPIL BY Est Group CHECKED BY DATE 10-9-56

TABLE III

DATE/TIME			10448 2230	2230	2300	2330	2400	0030	0300	0700	1100	1500	1730	1800	1830	1900	1930	2000	2030	2100	2130	2200	2230	2300	2330
LA COOLANT LOOP TH	°F		511.0	511.0	511.0	510.9	510.9	510.6	511.0	509.6	509.3	510.5	510.4	510.8	510.7	510.6	510.5	510.5	510.8	510.9	510.9	510.9	511.1	511.1	511.0
LB " " "	°F		510.0	510.0	510.0	510.0	510.0	509.9	511.0	510.9	510.9	510.0	509.1	509.1	509.0	509.0	509.0	509.0	509.0	509.2	509.3	509.2	510.0	510.0	510.0
LC " " "	°F		510.6	510.0	511.1	510.1	509.9	509.5	509.6	508.1	508.4	510.0	510.1	510.2	510.1	510.0	510.1	510.1	510.1	510.0	510.2	510.1	510.1	510.0	510.0
LD " " "	°F		510.1	510.0	510.0	510.0	510.0	509.8	511.0	510.9	510.8	510.5	509.8	509.8	509.7	509.7	509.7	509.5	509.5	509.8	509.8	509.9	510.1	510.0	510.0
LA " " Tc	°F		488.0	488.0	488.0	488.0	488.0	487.7	488.0	487.1	487.4	487.9	487.7	487.7	487.7	487.7	487.5	487.5	487.5	487.6	487.7	487.7	487.8	487.8	487.8
LB " " "	°F		487.8	487.9	487.9	487.9	487.5	487.6	488.5	487.8	487.9	488.1	487.2	487.2	487.2	487.1	487.2	487.1	487.2	487.2	487.4	487.7	487.8	487.8	487.8
LC " " "	°F		488.4	488.5	488.1	488.5	488.2	488.2	488.2	487.5	487.8	488.5	488.3	488.3	488.2	488.1	488.0	488.2	488.2	488.1	488.3	488.3	488.3	488.3	488.3
LD " " "	°F		487.0	487.0	487.0	487.2	487.0	487.0	487.3	487.0	487.3	487.4	487.0	486.9	486.9	486.6	486.6	486.5	486.7	486.8	486.8	486.7	486.7	486.7	486.9
LA " " Flow	10% %		7.26	7.27	7.27	7.27	7.27	7.26	7.28	7.27	7.27	7.27	7.26	7.27	7.26	7.26	7.26	7.26	7.26	7.26	7.27	7.27	7.27	7.27	7.27
LB " " "	10% %		7.19	7.19	7.19	7.19	7.18	7.18	7.18	7.18	7.18	7.18	7.18	7.18	7.17	7.19	7.17	7.18	7.18	7.18	7.18	7.18	7.18	7.18	7.18
LC " " "	10% %		7.28	7.28	7.27	7.28	7.27	7.28	7.28	7.29	7.28	7.28	7.28	7.28	7.27	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28
LD " " "	10% %		7.13	7.13	7.12	7.13	7.12	7.12	7.13	7.13	7.13	7.13	7.12	7.13	7.12	7.12	7.12	7.12	7.12	7.12	7.13	7.13	7.13	7.13	7.12
LA " " Pressure	Psig		1810	1810	1810	1820	1810	1815	1815	1820	1820	1810	—	—	—	1815	—	—	—	—	—	—	—	—	—
LB " " "	Psig		1840	1840	1845	1850	1830	1835	1840	1845	1845	1840	—	—	—	1840	—	—	—	—	—	—	—	—	—
LC " " "	Psig		1800	1800	1800	1805	1800	1800	1805	1815	1810	1810	—	—	—	1800	—	—	—	—	—	—	—	—	—
LD " " "	Psig		1855	1855	1855	1860	1855	1855	1855	1860	1850	1850	—	—	—	1850	—	—	—	—	—	—	—	—	—
COOLANT AVG. TEMP.	°F		500.0	500.0	499.9	500.0	500.0	500.0	500.0	500.0	500.0	500.0	—	—	—	499.9	—	—	—	—	—	—	—	—	—
TEMP. ERROR	°F		-2.0	-1.8	-2.0	-1.0	-0.5	-0.9	-0.1	+0.2	-2.5	-2	—	—	—	-0.2	—	—	—	—	—	—	—	—	—
DATE/TIME			10-11-56 0300	10-11-56 0700	10-11-56 0730	10-11-56 0800	10-11-56 0830	1100	1430	1800	1530	1600	1630	1700	1730	1800	1830	1900	1930	2000	2030	2100	2130	2200	2230
LA COOLANT LOOP TH	°F		510.0	509.3	509.3	509.3	509.3	509.8	510.6	510.5	510.0	510.0	510.0	510.2	510.0	510.0	510.0	510.4	509.9	509.9	509.9	509.7	509.9	510.9	510.3
LB " " "	°F		511.0	511.2	511.1	511.0	511.0	510.9	510.0	509.9	509.5	509.5	509.2	509.0	508.8	508.5	508.6	509.0	509.8	509.8	510.0	509.3	510.3	511.0	511.0
LC " " "	°F		509.0	508.3	508.3	508.5	508.7	509.5	510.6	510.5	510.2	510.2	510.2	510.0	510.0	509.8	510.0	510.0	510.5	511.0	511.2	510.1	510.9	511.3	511.0
LD " " "	°F		510.6	511.2	511.1	511.1	511.1	511.2	510.6	510.3	510.0	509.8	509.5	509.3	509.0	508.5	509.0	509.0	510.0	510.6	511.2	510.5	511.3	512.0	511.9
LA " " Tc	°F		487.6	487.1	487.1	487.1	487.1	487.6	487.9	487.9	488.0	488.0	487.9	487.9	487.5	487.4	487.5	487.8	487.7	487.4	487.5	487.0	487.6	488.0	487.9
LB " " "	°F		488.1	488.0	488.0	488.0	488.0	488.2	487.6	487.8	487.8	487.6	487.4	487.2	487.2	486.9	487.0	487.0	487.0	487.5	487.7	487.0	487.9	488.4	488.3
LC " " "	°F		487.9	487.6	487.6	487.6	487.5	488.0	488.6	488.5	488.8	488.7	488.6	488.5	488.4	488.0	487.9	488.0	488.6	488.5	488.5	488.1	488.5	488.9	488.9
LD " " "	°F		487.0	487.0	487.2	487.3	487.3	487.4	487.3	487.2	487.2	487.3	487.0	486.9	486.8	486.4	486.5	486.5	487.0	487.0	487.2	486.9	487.4	487.9	487.8
LA " " Flow	10% %		7.25	7.26	7.28	7.27	7.26	7.25	7.26	7.26	7.26	7.26	7.26	7.26	7.26	7.26	7.26	7.26	7.26	7.26	7.26	7.26	7.26	7.26	7.26
LB " " "	10% %		7.18	7.19	7.17	7.18	7.16	7.17	7.18	7.19	7.19	7.18	7.18	7.19	7.19	7.19	7.19	7.18	7.18	7.18	7.18	7.18	7.18	7.18	7.18
LC " " "	10% %		7.27	7.28	7.27	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28
LD " " "	10% %		7.12	7.12	7.12	7.13	7.12	7.12	7.12	7.12	7.12	7.12	7.12	7.12	7.12	7.12	7.12	7.12	7.12	7.12	7.12	7.12	7.12	7.12	7.12
LA " " Pressure	Psig		1810	1820	—	—	—	1820	—	1820	1820	1820	1820	1820	1820	1820	1820	1820	1820	1820	1820	1820	1825	—	—
LB " " "	Psig		1840	1835	—	—	—	1840	—	1840	1840	1840	1840	1840	1840	1840	1840	1840	1840	1840	1840	1840	1840	—	—
LC " " "	Psig		1800	1810	—	—	—	1810	—	1815	1815	1815	1810	1810	1810	1810	1810	1810	1815	1815	1815	1815	—	—	—
LD " " "	Psig		1850	1850	—	—	—	1850	—	1850	1850	1850	1850	1850	1850	1850	1850	1850	1850	1850	1850	1850	—	—	—
COOLANT AVG. TEMP.	°F		499.9	500.0	—	—	—	500.0	—	500.0	500.0	500.0	500.0	500.0	500.0	500.0	499.5	499.6	500.0	500.2	—	—	—	—	—
TEMP. ERROR	°F		-0.20	-0.15	-0.25	-0.10	-0.24	-0.30	-0.10	-0.05	0.0	-0.03	-0.05	-0.03	-0.09	-0.28	0.0	0.0	+0.15	+0.15	+0.15	-0.10	+0.05	+0.02	+0.05

DL-S-225
SECT. I
REACTIVITY LIFETIME

Test Group

10-11-58

TABLE III

Date / Time		2300	2330	0000	0030	0100	0130	0200	0230	0300	0330	0400	0430	0500	0530	0600	0630	0700	0730	1100	1430	1500	1530	1600
IA Coolant Loop TH	°F	510.4	510.5	510.0	509.9	509.0	509.3	509.0	509.0	509.3	509.8	509.5	509.5	509.4	509.7	509.8	509.8	510.0	510.3	510.1	509.5	509.5	509.2	
IB	°F	511.0	511.2	511.0	510.8	510.2	510.2	510.0	510.5	511.0	511.0	511.0	511.0	510.5	511.0	511.0	511.0	511.2	510.6	509.8	509.0	509.0	509.4	
IC	°F	511.0	510.8	510.0	509.5	509.0	509.3	508.2	508.0	509.9	509.5	509.5	508.0	509.7	509.2	509.2	509.5	509.5	509.0	510.0	511.0	510.5	510.5	510.0
ID	°F	512.0	512.0	511.8	511.0	510.4	510.3	509.9	510.0	510.5	510.4	510.4	510.3	510.0	509.9	509.0	510.0	510.0	510.4	510.9	511.0	510.4	510.0	510.0
IA	°F	483.0	488.0	483.0	487.9	487.5	487.5	487.4	487.0	487.7	487.3	487.3	487.5	487.5	487.0	487.4	487.5	487.5	487.5	487.5	487.6	487.1	487.0	487.0
IB	°F	483.2	488.4	483.4	488.0	483.0	487.9	487.8	487.5	488.0	488.0	488.0	488.0	488.0	488.0	488.0	488.0	488.0	488.0	488.0	488.0	488.0	488.0	488.0
IC	°F	483.4	488.9	483.9	488.5	483.0	488.0	487.9	487.8	487.9	487.9	487.9	487.9	487.9	487.9	487.9	487.9	487.9	487.9	487.9	487.9	487.9	487.9	487.9
ID	°F	487.8	487.8	483.0	487.5	487.2	487.0	487.0	487.0	487.0	487.0	487.0	487.0	487.0	487.0	487.0	487.0	487.0	487.0	487.0	487.0	487.0	487.0	487.0
IA	Flow	7.26	7.26	7.26	7.26	7.26	7.26	7.26	7.26	7.26	7.26	7.26	7.26	7.26	7.26	7.26	7.26	7.26	7.26	7.26	7.26	7.26	7.26	7.26
IB	"	7.18	7.18	7.18	7.18	7.18	7.18	7.18	7.18	7.18	7.18	7.18	7.18	7.18	7.18	7.18	7.18	7.18	7.18	7.18	7.18	7.18	7.18	7.18
IC	"	7.23	7.23	7.23	7.23	7.23	7.23	7.23	7.23	7.23	7.23	7.23	7.23	7.23	7.23	7.23	7.23	7.23	7.23	7.23	7.23	7.23	7.23	7.23
ID	"	7.12	7.12	7.12	7.12	7.12	7.12	7.12	7.12	7.12	7.12	7.12	7.12	7.12	7.12	7.12	7.12	7.12	7.12	7.12	7.12	7.12	7.12	7.12
IA	Pressure	1820	1820	1820	1820	1820	1820	1820	1820	1820	1820	1820	1820	1820	1820	1820	1820	1820	1820	1820	1820	1820	1820	1820
IB	"	1840	1840	1840	1840	1840	1840	1840	1840	1840	1840	1840	1840	1840	1840	1840	1840	1840	1840	1840	1840	1840	1840	1840
IC	"	1805	1805	1805	1805	1805	1805	1805	1805	1805	1805	1805	1805	1805	1805	1805	1805	1805	1805	1805	1805	1805	1805	1805
ID	"	1850	1850	1850	1850	1850	1850	1850	1850	1850	1850	1850	1850	1850	1850	1850	1850	1850	1850	1850	1850	1850	1850	1850
Coolant Avg. Temp	°F	500.6	500.7	500.3	500.0	500.0	500.0	500.0	500.0	499.5	500.0	500.0	500.0	500.0	500.0	499.5	499.8	500.0	500.0	500.0	500.0	500.0	500.0	500.0
Temp Error	°F	+0.53	+0.50	+0.5	+0.3	0.0	-0.15	-0.30	-0.50	-0.19	-0.09	+0.05	0.0	-0.05	-0.25	-0.25	-0.15	-0.15	-0.15	0.0	0.025	+0.05	-0.019	-0.029
DATE / TIME		1630	1700	1730	1800	1830	1900	1930	2000	2030	2100	2300	0300	0330	0400	0430	0500	0530	0600	0630	0700	1100	1300	1330
IA Coolant Loop TH	°F	509.2	509.8	509.5	509.3	509.2	509.2	509.8	509.7	509.9	509.9	509.9	509.7	510.0	509.8	509.9	509.9	509.9	509.9	509.9	510.0	510.0	509.3	509.1
IB	°F	508.3	509.0	508.9	508.9	508.9	508.8	509.1	509.7	509.8	510.0	510.2	511.2	511.3	511.0	511.1	511.0	511.0	511.0	511.0	511.0	510.0	508.9	508.9
IC	°F	510.1	510.4	510.5	510.5	510.2	510.2	510.3	510.3	510.2	510.2	509.4	508.0	508.2	507.9	508.0	508.0	507.8	507.8	507.8	508.7	510.0	510.0	510.0
ID	°F	510.0	510.5	510.3	510.3	510.1	510.2	510.3	510.7	510.8	510.8	510.2	510.0	509.4	509.9	510.0	509.9	510.0	510.0	510.0	510.2	510.7	510.1	510.6
IA	°F	487.0	487.2	487.2	487.2	487.0	487.1	487.1	487.1	487.2	487.6	487.2	487.2	487.0	487.0	487.0	487.2	487.2	487.2	487.2	487.3	487.6	487.1	487.2
IB	°F	487.0	487.0	487.0	487.0	487.0	487.0	487.0	487.2	487.5	487.5	487.8	488.0	487.9	487.6	487.8	487.8	487.6	487.6	487.6	488.0	487.5	487.0	487.0
IC	°F	487.8	488.0	488.0	488.0	488.0	488.0	488.0	488.0	488.0	488.1	487.7	487.5	487.5	487.4	487.5	487.5	487.5	487.5	487.5	487.5	488.0	488.2	487.3
ID	°F	486.6	486.9	486.9	486.9	486.9	486.8	487.0	487.0	487.0	487.0	487.1	487.0	486.7	486.7	486.7	486.7	486.7	486.7	486.7	487.0	487.2	487.0	487.0
IA	Flow	7.25	7.27	7.25	7.25	7.25	7.25	7.26	7.25	7.25	7.25	7.25	7.25	7.23	7.24	7.25	7.25	7.25	7.25	7.25	7.25	7.24	7.24	7.25
IB	"	7.18	7.18	7.18	7.18	7.19	7.18	7.18	7.19	7.18	7.18	7.18	7.18	7.19	7.19	7.19	7.18	7.20	7.15	7.15	7.18	7.20	7.19	7.18
IC	"	7.28	7.28	7.27	7.27	7.27	7.27	7.27	7.27	7.27	7.27	7.28	7.29	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.29	7.29	7.28
ID	"	7.12	7.12	7.12	7.12	7.12	7.12	7.12	7.12	7.12	7.12	7.13	7.13	7.13	7.13	7.12	7.13	7.12	7.13	7.13	7.12	7.12	7.12	7.15
IA	Pressure	1820	1820	1820	1820	1820	1820	1825	1820	1820	1820	1820	1820	1820	1820	1815	1815	1820	1820	1820	1820	1825	1825	1825
IB	"	1840	1845	1840	1840	1840	1840	1840	1840	1840	1840	1840	1840	1840	1840	1840	1840	1840	1840	1840	1840	1840	1840	1840
IC	"	1820	1815	1820	1820	1810	1810	1810	1810	1810	1810	1810	1810	1810	1810	1810	1810	1810	1810	1810	1810	1820	1820	1820
ID	"	1850	1850	1850	1850	1850	1850	1850	1850	1850	1850	1850	1850	1850	1850	1850	1850	1850	1850	1850	1850	1850	1850	1850
Coolant Avg. Temp	°F	499.4	499.8	499.8	499.9	499.8	499.9	499.9	499.9	499.9	499.9	499.8	500.0	500.0	500.0	500.0	500.0	499.9	499.9	499.9	500.0	499.9	499.9	499.9
Temp Error	°F	-0.55	-0.30	-0.25	-0.25	-0.03	-0.33	-0.18	-0.2	-0.19	-0.3	0									-0.02	-0.3	-0.22	-0.03

DL
PS
SAPSDL-S-225
SECT. I
REACTIVITY LIFETIME

8

TEST GROUP

10-12-58

Table III

10-14 →

DATE/TIME	10-13 1400	10-13 1430	10-13 1500	1530	1600	1630	1700	1730	1800	1830	1900	1930	2000	2300	0200	0230	0300	0330	0400	0430	0500	0700	1030	
1A Coolant Loop TH	°F	509.0	508.9	509.7	509.9	509.9	510.0	509.9	510.0	510.0	510.2	510.0	509.8	510.0	510.4	510.0	510.0	510.0	509.8	509.7	510.5	509.4	509.4	
1B " " "	°F	506.6	508.0	508.9	509.0	509.0	509.0	509.5	509.5	509.8	509.8	510.0	510.0	510.0	511.1	511.6	511.6	511.4	511.3	511.1	511.0	511.3	509.5	
1C " " "	°F	510.0	509.9	510.6	510.8	510.8	511.0	510.8	510.6	510.9	510.5	510.0	510.0	509.0	508.0	508.0	509.0	508.0	507.8	507.8	507.3	509.5	510.0	
1D " " "	°F	509.9	509.9	510.5	510.7	510.6	511.0	510.6	510.9	510.8	510.0	510.8	510.5	510.8	510.9	510.2	510.2	510.2	510.2	510.0	510.0	511.1	510.3	
1A " " T _c	°F	487.0	487.0	487.2	487.3	487.4	487.5	487.7	487.8	487.9	487.8	487.8	487.7	487.9	487.2	487.2	487.2	487.2	487.2	487.1	487.0	487.4	487.4	
1B " " "	°F	486.9	486.9	487.0	487.1	487.1	487.2	487.4	487.5	487.7	487.6	487.8	487.8	487.6	488.1	488.0	488.0	488.0	487.9	487.7	487.7	487.5	487.2	
1C " " "	°F	488.2	488.1	488.0	488.4	488.3	488.3	488.5	488.5	488.5	488.2	488.3	488.5	488.3	488.2	487.5	487.5	487.5	487.5	487.5	487.5	488.0	488.1	
1D " " "	°F	486.8	486.9	486.9	487.0	487.0	487.0	487.2	487.3	487.4	487.3	487.3	487.3	487.2	487.2	486.7	486.7	486.7	486.7	486.7	486.7	486.3	486.9	
1A " " Flow	10 ³ L/H	7.25	7.25	7.25	7.25	7.25	7.27	7.26	7.26	7.26	7.25	7.24	7.26	7.25	7.26	7.25	7.26	7.25	7.25	7.25	7.25	7.25	7.25	
1B " " "	"	7.18	7.18	7.18	7.18	7.18	7.18	7.18	7.18	7.18	7.18	7.18	7.18	7.18	7.19	7.20	7.20	7.19	7.19	7.19	7.19	7.19	7.18	
1C " " "	"	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.29	7.29	7.29	7.29	7.29	7.29	7.29	7.29	7.28	
1D " " "	"	7.15	7.15	7.12	7.12	7.12	7.12	7.12	7.12	7.12	7.12	7.12	7.12	7.12	7.11	7.12	7.12	7.12	7.13	7.13	7.13	7.13	7.13	
1A " " Pressure	psig	—	—	1820	1820	1820	1820	1820	1820	1820	1820	1820	1820	1820	1820	—	—	1820	—	—	—	—	1825	1820
1B " " "	"	—	—	1840	1840	1840	1840	1840	1840	1840	1840	1840	1840	1840	1840	—	—	1840	—	—	—	—	1840	1840
1C " " "	"	—	—	1810	1820	1810	1815	1815	1815	1815	1815	1820	1810	1820	1810	—	—	1810	—	—	—	—	1810	1810
1D " " "	"	—	—	1850	1850	1850	1850	1850	1850	1850	1850	1850	1850	1850	1850	—	—	1850	—	—	—	—	1850	1850
Coolant Avg. Temp.	°F	—	—	499.9	500.0	500.0	500.0	500.2	500.2	500.2	500.0	500.0	500.0	500.1	500.1	—	—	500.0	—	—	—	—	500.0	499.9
Temp. Error	°F	-0.2	-0.3	-0.25	0	+0.02	+0.09	+0.05	+0.08	+0.09	+0.1	0	-0.09	-0.1	+0.1	0	-0.05	0	-0.05	-0.05	-0.15	-0.15	0	-0.3
DATE/TIME	10-14 1100	1130	1200	1230	1300	1330	1400	1430	1500	1530	1600	1630	1700	1730	1800	1830	1900	1930	2000	2030	2100	2130	2200	
1A Coolant Loop TH	°F	510.0	510.0	510.0	510.0	509.2	509.0	508.8	509.9	510.5	510.7	509.9	509.9	509.8	509.9	509.5	509.7	509.2	511.0	511.0	511.3	511.3	511.5	510.5
1B " " "	°F	510.0	509.8	509.8	509.1	509.0	508.2	507.7	509.1	510.7	511.2	510.9	510.2	510.3	510.2	510.2	510.1	510.0	510.0	510.0	510.2	510.2	510.2	510.2
1C " " "	°F	510.8	510.9	510.9	511.0	510.5	510.2	509.7	510.8	509.4	509.1	508.7	508.8	509.2	509.1	508.9	508.4	508.3	510.4	510.4	510.6	510.8	510.8	509.9
1D " " "	°F	510.9	510.0	510.6	511.0	510.4	509.9	509.5	510.8	511.3	511.7	511.0	510.2	510.5	510.6	510.1	510.0	509.8	510.9	511.9	511.9	512.0	511.9	511.0
1A " " T _c	°F	488.0	488.0	487.9	487.8	487.5	486.9	486.6	487.3	487.9	488.2	488.0	487.4	487.8	487.3	487.3	487.2	487.1	488.5	489.0	489.0	489.0	488.5	488.5
1B " " "	°F	487.7	487.5	487.4	487.3	487.0	486.5	486.2	487.1	488.0	488.4	488.1	487.7	487.9	487.6	487.7	487.3	487.2	489.0	489.1	489.3	489.2	489.5	488.8
1C " " "	°F	488.5	488.5	488.8	488.4	488.5	488.2	487.9	488.2	488.0	488.0	488.2	488.0	487.9	488.6	488.0	488.0	489.0	489.1	489.2	489.2	489.5	489.5	489.5
1D " " "	°F	487.2	487.0	487.2	487.3	487.1	486.7	486.2	487.0	487.4	487.8	487.3	487.0	487.1	487.0	487.0	486.9	486.8	488.0	488.0	488.2	488.5	488.5	488.5
1A " " Flow	10 ³ L/H	7.25	7.25	7.25	7.25	7.25	7.24	7.25	7.25	7.25	7.26	7.26	7.28	7.28	7.25	7.26	7.26	7.26	7.26	7.26	7.26	7.26	7.24	7.24
1B " " "	"	7.17	7.18	7.18	7.18	7.18	7.19	7.19	7.19	7.19	7.18	7.18	7.19	7.19	7.19	7.19	7.19	7.19	7.19	7.19	7.19	7.19	7.19	7.19
1C " " "	"	7.29	7.28	7.28	7.27	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28
1D " " "	"	7.13	7.12	7.13	7.12	7.12	7.12	7.12	7.12	7.12	7.13	7.13	7.13	7.13	7.13	7.13	7.14	7.13	7.13	7.13	7.13	7.13	7.13	7.13
1A " " Pressure	psig	1820	1820	1825	1825	1820	1820	1820	—	1825	1815	1820	1820	1815	1815	1815	1815	1810	1825	1820	1820	1820	1820	1820
1B " " "	"	1845	1845	1845	1845	1845	1840	1840	—	1845	1820	1840	1840	1840	1840	1840	1840	1840	1845	1840	1840	1840	1840	1840
1C " " "	"	1815	1810	1810	1810	1810	1815	1815	—	1820	1810	1815	1805	1815	1815	1815	1815	1810	1810	1815	1810	1810	1810	1810
1D " " "	"	1850	1850	1850	1850	1850	1850	1850	—	1855	1825	1850	1850	1850	1850	1850	1850	1850	1850	1850	1850	1850	1850	1850
Coolant Avg. Temp.	°F	500.0	500.1	500.1	500.0	500.1	499.9	499.5	—	499.9	500.1	500.1	499.8	499.8	499.9	499.8	499.7	499.5	500.0	500.0	501.0	501.0	501.0	500.8
Temp. Error	°F	+0.05	+0.1	+0.1	0	+0.1	-0.13	-0.42	-0.04	-0.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—

7H

DL
PS
SAPS

DL-S-225
SECT. I
REACTIVITY LIFETIME
TEN GROUP

TABLE III

DATE/TIME	10-14 2330	10-14 2300	10-14 2330	2400	0030	0100	0130	0200	0230	0300	0400	0500	0600	0700	0800	0830	0900	0930	1000	1030	1100	1500	1900
1A COOLANT LOOP TH	°F 50.3	570.0	509.6	509.8	510.0	510.3	510.3	510.6	510.8	510.9	509.9	510.4	510.6	510.5	510.0	510.0	510.0	510.0	510.0	510.0	510.0	509.7	510.1
1B " " "	°F 511.0	510.5	510.0	510.8	510.5	511.0	511.0	511.0	511.0	511.2	510.2	510.9	510.9	510.8	510.0	510.2	510.2	510.5	510.5	510.5	510.1	510.1	510.9
1C " " "	°F 509.8	509.1	509.0	509.0	509.2	509.7	509.8	510.0	510.0	510.0	509.4	510.0	510.0	510.1	510.0	510.0	510.0	510.2	510.1	510.1	510.0	509.5	509.6
1D " " "	°F 510.8	510.2	509.9	510.2	510.4	510.8	510.9	511.0	511.0	511.2	510.3	511.0	511.0	511.2	510.6	510.8	510.9	511.0	511.0	511.0	510.8	510.6	510.8
1A " " Tc	°F 488.0	487.7	487.8	487.8	488.0	488.0	488.2	488.2	488.2	488.5	488.0	488.0	488.4	488.3	488.0	487.9	487.9	487.9	487.9	488.0	487.9	487.8	487.9
1B " " "	°F 488.4	487.9	487.8	487.7	488.0	488.2	488.4	488.4	488.3	488.4	487.8	488.0	488.2	488.2	488.0	488.0	488.9	488.9	487.9	488.0	488.1	487.9	488.0
1C " " "	°F 488.0	488.3	488.3	488.0	488.0	488.2	488.7	488.6	488.5	488.8	488.5	488.8	488.5	488.8	488.7	488.6	488.6	488.6	488.6	488.5	488.6	488.5	488.1
1D " " "	°F 487.9	487.1	487.0	487.0	488.0	487.5	487.8	487.8	487.8	488.0	487.2	487.7	487.5	487.8	487.4	487.3	487.3	487.3	487.2	487.6	487.5	487.3	487.4
1A " " FLOW 10x10 ¹⁰ M	7.24	7.24	7.24	7.25	7.25	7.24	7.24	7.24	7.25	7.26	7.26	7.26	7.26	7.24	7.26	7.26	7.26	7.26	7.26	7.26	7.26	7.26	7.26
1B " " "	7.19	7.19	7.19	7.19	7.19	7.19	7.19	7.19	7.19	7.19	7.19	7.19	7.19	7.19	7.19	7.19	7.19	7.19	7.19	7.19	7.18	7.19	7.19
1C " " "	7.25	7.28	7.28	7.28	7.28	7.29	7.29	7.29	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.27	7.28	7.28	7.28	7.28	7.28	7.27	7.27
1D " " "	7.10	7.12	7.12	7.14	7.13	7.13	7.13	7.13	7.13	7.13	7.13	7.13	7.13	7.13	7.13	7.13	7.13	7.13	7.12	7.11	7.12	7.13	7.13
1A " " PRESSURE (PSIG)	1815	1810	1815	1815	1815	1820	1820	1820	1815	1830	1820	1825	1825	1820	1820	1820	1820	1820	1820	1820	1810	1820	1820
1B " " "	1840	1840	1840	1840	1840	1845	1840	1840	1840	1845	1840	1845	1840	1840	1840	1840	1840	1840	1840	1840	1830	1830	1840
1C " " "	1810	1810	1810	1810	1815	1820	1820	1815	1820	1815	1825	1821	1820	1820	1820	1820	1820	1820	1820	1820	1810	1810	1820
1D " " "	1855	1855	1855	1855	1855	1855	1855	1855	1855	1855	1855	1855	1850	1850	1850	1850	1850	1850	1850	1850	1855	1855	1850
COOLANT AVG. TEMP.	°F 500.5	500.1	499.9	499.8	499.8	500.0	500.0	500.1	500.2	500.0	500.0	500.0	500.1	500.1	500.0	500.0	500.0	500.0	500.0	500.0	500.0	500.0	499.9
TEMP. ERROR	°F	+0.12	-1.0	-3.0	-3.6	-1.5	-0.05	+0.02	+0.04	+0.18	-0.09	-1.0	+0.08	-0.07	-1.10	-0.05	+0.3	0.0	+0.03	0.0	-0.14	0.00	-0.18
DATE/TIME	10-15-88 2300	10-16-88 0300	10-16-88 0700	1100	1500	1900	10-16 2300	10-17 0300	10-17 0700	1100	1500	1900	2300	10-18 0300	0700	1100	1500	1900	2300	10-19 0300	0700	1100	1500
1A COOLANT LOOP TH	°F 510.0	510.5	510.0	509.3	510.6	510.0	510.0	511.0	510.0	509.0	510.2	510.2	510.4	510.2	510.3	509.5	510.1	500.0	510.0	510.4	510.0	509.5	509.5
1B " " "	°F 510.9	510.8	510.0	510.0	511.0	510.2	510.2	511.0	510.0	510.2	510.8	510.6	510.8	510.0	510.4	510.0	511.0	511.0	510.9	510.8	510.3	510.0	510.0
1C " " "	°F 509.6	510.2	510.0	509.8	510.1	509.0	509.4	510.6	510.0	509.8	509.7	509.1	509.6	509.9	510.1	509.5	509.8	509.0	509.6	510.4	510.0	509.0	509.0
1D " " "	°F 510.5	511.0	510.5	510.2	511.1	510.0	510.0	511.3	510.7	510.7	510.8	510.3	510.7	510.8	511.0	510.8	511.0	510.0	510.5	511.1	511.1	510.1	510.0
1A " " Tc	°F 487.4	488.2	487.9	487.6	488.0	487.8	487.9	488.0	487.3	487.5	487.5	487.7	488.0	487.8	488.1	487.8	488.1	488.0	488.0	488.1	488.1	487.5	487.5
1B " " "	°F 488.0	488.2	487.8	487.5	488.0	487.9	488.0	488.0	487.3	487.5	487.8	487.9	488.0	487.8	488.1	487.8	488.5	488.0	488.2	488.0	488.0	487.5	487.3
1C " " "	°F 488.1	488.3	488.5	488.2	488.2	488.0	488.0	488.4	487.9	487.9	488.0	488.0	488.8	488.8	488.0	488.1	488.0	488.0	488.2	488.4	488.0	488.0	488.0
1D " " "	°F 487.1	487.6	487.3	487.0	487.4	487.0	487.0	487.6	487.1	487.1	487.0	487.0	487.1	487.6	487.9	487.2	487.8	487.0	487.5	487.7	488.0	487.0	487.0
1A " " FLOW 10x10 ¹⁰ M	7.26	7.26	7.26	7.26	7.27	7.27	7.27	7.25	7.25	7.25	7.25	7.25	7.25	7.25	7.25	7.25	7.25	7.25	7.25	7.25	7.26	7.26	7.26
1B " " "	7.19	7.19	7.19	7.19	7.20	7.19	7.19	7.19	7.19	7.19	7.19	7.19	7.19	7.19	7.19	7.19	7.19	7.19	7.19	7.19	7.18	7.18	7.18
1C " " "	7.28	7.28	7.28	7.29	7.28	7.28	7.28	7.29	7.29	7.29	7.29	7.29	7.29	7.29	7.29	7.29	7.29	7.29	7.29	7.29	7.28	7.28	7.28
1D " " "	7.13	7.13	7.13	7.13	7.13	7.13	7.13	7.12	7.13	7.13	7.13	7.12	7.12	7.12	7.12	7.12	7.12	7.12	7.12	7.12	7.12	7.13	7.13
1A " " PRESSURE PSIG	1820	1820	1820	1820	1820	1820	1820	1825	1820	1830	1820	1820	1820	1825	1825	1825	1820	1820	1820	1820	1820	1825	1820
1B " " "	1840	1840	1840	1840	1840	1840	1840	1830	1830	1845	1840	1840	1840	1840	1840	1840	1840	1840	1840	1840	1840	1840	1840
1C " " "	1810	1810	1815	1815	1820	1820	1810	1820	1810	1820	1810	1810	1810	1810	1820	1820	1820	1820	1820	1820	1810	1810	1810
1D " " "	1855	1860	1855	1850	1850	1850	1850	1850	1850	1850	1850	1850	1850	1850	1850	1850	1850	1850	1850	1850	1850	1850	1850
COOLANT AVG. TEMP.	°F 499.9	500.1	500.0	499.9	500.1	500.0	499.9	500.0	499.9	500.0	499.9	499.9	499.9	500.1	500.0	499.7	500.1	500.0	500.0	500.0	500.0	500.2	499.5
TEMP. ERROR	°F	-0.19	0.0	-1.1	-2.0	0.0	-1.2	-1.2	+0.01	-1.0	-0.29	0.05	-1.5	-1.5	+1.5	0.0	-1.42	-0.2	-1.1	-1.1	-1.1	+1.3	-1.3

SUBJECT DL-S-225 SHEET NO. 10DL ACTIVITY LIFETIMEPS SECTION ISAPS TEST GROUP CHECKED BY DATE

TABLE III

TIME	10-19 1900	2300 2300	10-20 0300	0700	1100	1500	1900	2300	10-21 2400	0020	0040	0100	0120	0140	0200	0220	0240	0300	0320	0340	0400	0420	0440	0500
1A Coolant Loop Th °F	510.0	510.5	510.9	509.5		510.2	510.4	510.2	510.6	510.5	510.5	510.6	510.6	510.6	510.0	510.0	509.9	509.8	509.8	509.8	510.2	510.5	510.6	510.6
1B " " " °F	510.5	510.5	510.9	510.0		510.9	510.7	510.3	510.9	510.8	510.8	510.5	510.7	510.6	510.1	510.0	509.9	510.0	510.0	510.0	510.5	510.5	510.6	510.9
1C " " " °F	509.2	510.2	510.6	509.2		509.2	509.7	510.0	510.6	510.6	510.6	510.5	510.6	510.7	510.2	510.0	510.0	510.0	510.0	510.0	510.5	510.8	510.8	510.9
1D " " " °F	510.1	510.8	511.7	510.3		510.4	510.8	510.7	511.1	511.5	511.4	511.3	511.3	511.3	510.9	510.8	510.9	510.8	511.0	511.0	511.3	511.6	511.5	511.8
1A Coolant Loop Tc °F	487.8	488.0	488.1	487.8		487.8	488.0	488.0	488.4	488.4	488.4	488.3			488.0			487.8			488.0			488.0
1B " " " °F	487.8	488.2	488.0	487.5		488.0	488.1	488.0	488.1	488.1	488.2	488.1			488.0			487.6			488.0			488.0
1C " " " °F	488.0	488.4	488.4	488.4		488.0	488.0	488.4	488.4	488.4	488.8	488.9			488.9			488.3			488.5			488.5
1D " " " °F	487.1	487.3	487.9	487.1		487.1	487.2	487.1	487.9	487.8	487.9	487.9			487.8			487.3			487.5			487.8
1A Coolant Loop Flow 10% $\frac{1}{2}$	7.26	7.26	7.26	7.28		7.29	7.23	7.24	7.27	7.26	7.26	7.25	7.27	7.27	7.27	7.27	7.27	7.27	7.27	7.27	7.27	7.27	7.27	7.27
1B " " " "	7.18	7.18	7.19	7.19		7.20	7.19	7.19	7.20	7.20	7.20	7.20	7.20	7.20	7.20	7.20	7.20	7.20	7.20	7.20	7.20	7.20	7.20	7.20
1C " " " "	7.28	7.28	7.29	7.29		7.29	7.28	7.28	7.29	7.29	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28
1D " " " "	7.13	7.13	7.13	7.13		7.13	7.13	7.13	7.13	7.13	7.12	7.12	7.12	7.13	7.13	7.13	7.13	7.13	7.12	7.12	7.13	7.13	7.13	7.14
1A Coolant Loop Press. Psig	1820	1820	1825	1825		1820	1825	1820	1820			1820			1820			1820			1820			1820
1B " " " "	1840	1840	1840	1840		1830	1845	1840	1840			1840			1840			1840			1840			1840
1C " " " "	1810	1810	1820	1815		1810	1810	1820	1810			1810			1810			1810			1810			1810
1D " " " "	1850	1855	1850	1850		1855	1855	1860	1855			1855			1855			1850			1855			1850
Coolant Ave. Temp. °F	500.0	500.0	500.1	500.0		500.0	499.9	499.9	500.0			500.2			500.2			500.0			500.1			500.2
Temp. Error °F	0.00	-0.10	0.00	-0.14		10.07	-0.13	-0.11	10.02			1.18			10.20			0.0			1.1			1.2
TIME	10-21 0400	0700	0900	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2030	2100	2130	2200	2230	2300	10-22 0300	0700	10-22 1500
1A Coolant Loop Th °F	510.0	509.6	510.0	509.8	509.8	510.0	510.1	510.0	510.2	510.3	510.0	510.4	510.2	510.2	510.5	510.5	510.5	510.9	510.5	510.0	510.4	510.2	509.8	510.0
1B " " " °F	510.1	510.1	510.4	510.3	510.0	510.9	511.0	510.9	511.0	510.9	511.0	511.0	510.8	510.6	510.9	510.8	510.8	510.9	510.8	510.3	510.0	510.5	510.7	510.8
1C " " " °F	510.0	509.5	509.5	509.3	508.9	509.5	509.6	509.5	509.8	509.4	509.3	509.9	509.9	509.8	510.3	510.3	510.5	510.7	510.8	510.5	510.1	510.7	510.1	509.7
1D " " " °F	511.1	510.5	510.8	510.6	510.1	510.8	510.7	510.6	510.3	510.4	510.2	510.5	510.2	510.3	511.0	511.0	511.0	511.2	511.2	510.8	510.5	511.5	510.8	510.1
1A Coolant Loop Tc °F	487.9	487.6	487.8	487.6	487.6	487.9	487.9	488.0	488.0	487.9	487.8	488.0	488.0	488.0	488.2	488.2	488.3	488.3	488.3	488.1	488.0	488.0	487.9	488.0
1B " " " °F	487.9	487.5	487.9	487.9	487.5	488.1	488.1	488.0	488.0	487.9	487.8	488.0	488.0	488.1	488.5	488.5	488.6	488.6	488.7	488.5	488.5	488.5	487.9	487.9
1C " " " °F	488.4	488.1	488.1	488.2	488.0	488.0	487.9	487.9	488.0	488.0	488.0	488.2	488.2	488.1	488.5	488.5	488.6	488.6	488.7	488.5	488.5	488.5	487.9	487.9
1D " " " °F	487.5	487.1	487.1	487.1	487.0	487.0	487.2	487.1	487.1	487.1	487.0	487.2	487.2	487.2	487.6	487.5	487.6	487.7	487.7	487.5	487.2	487.5	487.5	487.0
1A Coolant Loop Flow 10% $\frac{1}{2}$	7.27	7.28	7.25	7.25	7.24	7.24	7.25	7.25	7.25	7.27	7.28	7.27	7.27	7.25	7.27	7.23	7.25	7.25	7.25	7.25	7.25	7.25	7.23	7.25
1B " " " "	7.20	7.21	7.20	7.20	7.20	7.20	7.20	7.20	7.20	7.20	7.18	7.20	7.20	7.20	7.18	7.19	7.19	7.18	7.18	7.19	7.20	7.18	7.19	7.19
1C " " " "	7.28	7.29	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.29	7.29	7.27	7.27	7.28	7.26	7.28	7.27	7.27	7.28	7.28	7.28	7.28
1D " " " "	7.13	7.14	7.12	7.12	7.13	7.12	7.13	7.13	7.13	7.13	7.13	7.14	7.14	7.13	7.14	7.13	7.13	7.13	7.13	7.13	7.13	7.13	7.13	7.13
1A Coolant Loop Press. Psig	1820	1820	1820	1820	1810	1820	1820	1820	1820	1820	1820	1820	1820	1820	1820	1825	1825	1825	1820	1820	1820	1820	1820	1815
1B " " " "	1840	1840	1830	1840	1840	1845	1840	1840	1840	1840	1840	1845	1845	1845	1840	1840	1840	1840	1840	1840	1840	1840	1840	1840
1C " " " "	1810	1810	1810	1810	1810	1810	1810	1810	1820	1810	1810	1810	1810	1810	1810	1815	1815	1815	1815	1815	1815	1815	1815	1810
1D " " " "	1855	1855	1855	1855	1860	1860	1855	1860	1860	1860	1860	1860	1860	1860	1855	1860	1860	1855	1855	1855	1855	1855	1855	1860
Coolant Ave. Temp. °F	500.3	499.9	500.0	500.0	499.8	499.8	499.8	499.8	500.0	500.0	500.0	500.0	500.0	499.9	500.0	500.0	500.0	500.0	500.0	500.1	500.1	500.1	499.8	499.9
Temp. Error °F	+1.8	-1.5	-1.0	-0.04	-0.2	-1.2	-1.2	-1.4	-0.3	-0.3	0.0	-1.1	-1.1	-0.08	-0.5	0.0	0.0	0.0	0.0	+0.7	+0.1	+0.1	-0.3	-1.5

FORM 4A-7.12

7K

DL-S-225

1

DL

Reactivity Lifetime

PS

Read every 8 hours

SAPS

9/22-23/58

Table III

Time	0800	0900	1000	1200	1300	1500	1800	1900	2000	2100	2200	2300	0000	0100	0200	0300	0400	0500	0700	1800	1900	2000	2100
Feedwater Press H/P-TS Psg						950						960		(9-23-58)					950	955			
Blr Steam Press 1A Psg						550						540							540	540			
Blr Steam Press 1B Psg						510						500							500	500			
Blr Steam Press 1C Psg						540						500							550	550			
Blr Steam Press 1D Psg						535						534							530	530			
Calib To 1A F						4897	4894	4892	4878	4886	4886	4891	4891	4896	4892	4893	4897	4895	4893	4897	4899	4898	4898
Calib To 1B F						4897	4895	4895	4879	4891	4897	4893	4893	4892	4897	4893	4891	4897	4895	4893	4899	4898	4898
Calib To 1C F						4900	4898	4898	4892	4898	4890	4895	4895	4895	4898	4893	4894	4897	4896	4896	4898	4898	4898
Calib To 1D F						4894	4894	4896	4819	4894	4896	4895	4893	4890	4894	4892	4892	4892	4896	4898	4899	4897	4897
Calib To 1A F						466						467.3							466.3	465.8			
Calib To 1B F						468						468.2							470.4	468.9			
Calib To 1C F						473						468.3							473.8	471.6			
Calib To 1D F						477.8						476.8							477.7	476.2			
1AC Purif Loop Flow $\frac{110}{215}$						20.3						20.4							20.8	20.2			
1BD Purif Loop Flow $\frac{215}{215}$						22.0						20.1							20.0	20.0			
1AC H ₂ O Reg HX Cal Temp F						182						152.0							150	154			
1AC H ₂ O Reg HX Cal Temp F						85						110							85	88			
1BD H ₂ O Reg HX Cal Temp F						152						142.0							150	154			
1BD H ₂ O Reg HX Cal Temp F						86						1350							85	90			
Total Steam Flow $\frac{105}{105}$						84						88.0							90	89			
Charging Pump Flow $\frac{200}{200}$	005																						
Stm Press 1A Throttle Psg	530	520	520	520	532	532						528.0							528	528			
Stm Press 1B Throttle Psg	530	520	520	520	520	520						528.0							520	520			
Stm Temp 1A Throttle F	477	477	477	477	477	477						476							475	477			
Stm Temp 1B Throttle F	478	478	477	478	478	478						476							477	477			
Calor Temp 1A Throttle F	200	270	282	284	290	287						283.6							280	290			
Calor Temp 1B Throttle F	252	240	253	248	252	248						245.0							272	271			
Turbine Vacuum $\frac{20.14}{20.14}$						20.14						20.14							20.14	20.14			
FW Temp Log 1A H ₂ O F						185						186							186	187			
FW Temp Log 1C H ₂ O F						313						315							315	315			
Barometric Press $\frac{29.47}{29.47}$						29.47						29.47							29.57	29.57			

DL
PS
SAPS

SUBJECT DL-5- 225 SECT I
REACTIVITY LIFETIME

2

9/23- 28/58

Table IV

DATE TIME	9/23/58	9/24/58	9/25/58	9/26/58	9/27/58	9/28/58	9/29/58	9/30/58
	2300	0700	1500	2300	0700	1500	2300	0700
	1500	2300	0700	1500	2300	0700	1500	2300
	0700	1500	2300	0700	1500	2300	0700	1500
	2020	2100	2200	2300	0700	1500	2300	0700
FEEDWATER PRESS	PSIG	94.0	88.0	94.0	94.5	86.0	93.0	96.0
BLR STEAM PRESS 1A	PSIG	540	538	540	540	540	540	540
BLR STEAM PRESS 1B	PSIG	495	500	500	500	500	500	495
BLR STEAM PRESS 1C	PSIG	538	538	540	540	540	540	538
BLR STEAM PRESS 1D	PSIG	522	500	520	520	520	520	500
CALIB. TC 1A	F	487.9	487.7	487.7	488.2	488.1	488.1	488.4
CALIB. TC 1B	F	488.3	488.1	487.9	488.3	488.5	488.1	488.7
CALIB. TC 1C	F	488.3	488.0	487.8	488.4	488.2	488.0	487.5
CALIB. TC 1D	F	487.5	488.2	488.1	488.8	488.6	488.4	487.9
CALIB. TB 1A	F	005						
CALIB. TB 1B	F	005						
CALIB. TB 1C	F	005						
CALIB. TB 1D	F	005						
1AC PURIF. LOOP FLOW	LB/HR X10 ³	20.3	20.2	28.2	20.2	20.2	20.2	20.1
1BD PURIF. LOOP FLOW	LB/HR X10 ³	20.0	20.0	20.0	20.0	20.0	20.1	20.2
1AC NON-RES. HX COOL. TEMP IN	F	149.0	150.0	151.0	152.0	150.5	150.0	145.8
1AC NON-RES. HX COOL. TEMP OUT	F	110.0	85.0	86.0	88.0	85.0	86.0	86.0
1BD NON-RES. HX COOL. TEMP IN	F	150.0	151.0	152.0	153.0	151.5	152	146.2
1BD NON-RES. HX COOL. TEMP OUT	F	137.0	86.0	88.0	88.0	88.0	87.0	88.0
TOTAL STM. FLOW	LB/HR X10 ³	93.0	93.0	93.0	92.0	93.0	92.0	94.0
CHARGING PUMP FLOW INTG	TOTAL Ft ³	005						
STM. PRESS 1A THROTTLE	PSIG	520	520	522	523	524	525	521
STM. PRESS 1B THROTTLE	PSIG	520	518	520	522	522	525	522
STM. TEMP 1A THROTTLE	F	475	476	476	475.2	477	476	477
STM. TEMP 1B THROTTLE	F	476	476	477	478	477	477	477
CALOR. TEMP 1A THROTTLE	F	291	291	291	282.5	287	287.5	288
CALOR. TEMP 1B THROTTLE	F	276	280	280	276	274	272	280
TURBINE VACUUM	IN HG	28.18	28.13	28.06	28.02	28.02	27.99	28.02
FW TEMP LVG. 1A HTR.	F	157.8	157.5	158.0	158.0	158.0	158.0	158.0
FW TEMP LVG. 1C HTR.	F	320	319	318	317	319	318	318
BAROMETRIC PRESS	IN HG	29.51	29.49	29.46	29.39	29.38	29.33	29.35

DL
PS

SAPS.

DL-5-225 SEC I
REACTIVITY LIFETIME

3

9/30/58 - 10/1/58

TABLE IV

DATE TIME	9/30	10/1/58	0800	1500	2300	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900
FEEDWATER PRESS	PSIG	95	95										95								95				
BLR STEAM PRESS 1A	PSIG	539	540										540								540				
BLR STEAM PRESS 1B	PSIG	500	500										518								500				
BLR STEAM PRESS 1C	PSIG	535	522										522								530				
BLR STEAM PRESS 1D	PSIG	490	480										478								470				
CALIB. TC 1A	F	488.0	488.2	488.1	488.1	488.1	488.1	488.1	488.1	488.1	488.1	488.1	488.1	488.1	488.1	488.1	488.1	488.1	488.1	488.1	488.1	488.1	488.1	488.1	488.1
CALIB. TC 1B	F	487.8	488.2	488.3	488.3	488.5	488.5	488.5	488.3	488.3	488.3	488.3	488.3	488.3	488.3	488.3	488.3	488.3	488.3	488.3	488.3	488.3	488.3	488.3	488.3
CALIB. TC 1C	F	487.6	487.7	487.6	487.6	487.8	487.8	487.8	487.8	487.8	487.8	487.8	487.8	487.8	487.8	487.8	487.8	487.8	487.8	487.8	487.8	487.8	487.8	487.8	487.8
CALIB. TC 1D	F	488.4	487.9	488.5	488.5	488.5	488.8	488.5	488.5	488.5	488.5	488.4	488.2	488.1	488.5	488.3	488.3	488.3	488.3	488.3	488.3	488.3	488.3	488.3	488.3
CALIB. TB 1A	F	005	005	005	005	005	005	005	005	005	005	005	005	005	005	005	005	005	005	005	005	005	005	005	005
CALIB. TB 1B	F	005	005	005	005	005	005	005	005	005	005	005	005	005	005	005	005	005	005	005	005	005	005	005	005
CALIB. TB 1C	F	005	005	005	005	005	005	005	005	005	005	005	005	005	005	005	005	005	005	005	005	005	005	005	005
CALIB. TB 1D	F	005	005	005	005	005	005	005	005	005	005	005	005	005	005	005	005	005	005	005	005	005	005	005	005
1AC PURIF. LOOP FLOW	LB/NR x 10 ³	20.4	20.3										20.4								20.4				
1BD PURIF. LOOP FLOW	LB/NR x 10 ³	20.2	20.1										20.2								20.1				
1AC NON-REG HX COOL TEMP IN	F	151	151										150								144				
1AC NON-REG HX COOL TEMP OUT	F	86	85										85								85				
1BD NON-REG HX COOL TEMP IN	F	151	150.5										150								147				
1BD NON-REG HX COOL TEMP OUT	F	87	86										86								85				
TOTAL STM FLOW	LB/NR x 10 ³	92	92										93								95				
CHARGING PUMP FLOW-INTG	PSIG	005	005	005	005	005	005	005	005	005	005	005	005	005	005	005	005	005	005	005	005	005	005	005	005
STM PRESS 1A THROTTLE	PSIG	525	523										522								525				
STM PRESS 1B THROTTLE	PSIG	525	521										520								525				
STM TEMP 1A THROTTLE	F	476	477										476								476				
STM TEMP 1B THROTTLE	F	477	477										477								476				
CALOR TEMP 1A THROTTLE	F	282	284										284								284				
CALOR TEMP 1B THROTTLE	F	290	272										270								276				
TURBINE VACUUM	IN.HG	22.87	22.04										22.87								22.30				
F.W. TEMP. LVG. 1A HTR	F	157	157										156								158				
F.W. TEMP. LVG. 1C HTR	F	318	318										318								318				
BAROMETRIC PRESS	IN.HG	29.30	29.31										29.47								29.56				

SUBJECT DL-S-225 SHEET NO. 4
 SECTION I
 REACTIVITY LIFETIME TEST
 DATE 10/1/58 - 10/6/58

TABLE IV

DATE				10/1/58										10/2/58			10/3/58			10/4/58		10/5/58		10/6/58		10/7/58		
TIME				2000	2100	2130	2200	2230	2300	2330	2400	0700	1500	2300	0700	1500	2300	0700	1500	2300	0700	1500	2300	0700	1500	2300	0700	1500
FEEDWATER PRESS.									96			96	96	96	96	96	96	96	96	96	96	96	96	95	95	96	95	95
BLR STEAM PRESS.				1A					540			542	540	542	542	540	545	540	540	545	545	545	542	540	540	540	540	540
"				1B					500			498	500	498	500	498	500	500	500	500	500	500	500	500	500	500	500	500
"				1C					540			540	540	538	530	538	535	530	535	540	540	540	530	540	540	540	540	540
"				1D					480			480	480	482	480	480	480	460	460	470	470	465	460	460	460	460	460	460
CALIB. Tc				1A	°F	488.1	488.1	487.9	488.1	488.1	487.9	488.1	488.3	487.9	487.9	488.1	488.3	488.2	488.1	488.3	488.8	488.1	487.7	487.3	487.9	487.9	487.9	487.9
"				1B	°F	488.5	488.3	488.3	488.3	488.3	488.1	488.1	488.3	488.1	487.9	488.1	488.3	488.2	488.5	488.3	488.7	488.3	487.5	487.9	487.9	487.9	487.9	487.9
"				1C	°F	487.7	487.9	487.5	487.6	487.6	487.4	487.7	487.7	488.0	487.3	487.3	488.0	487.1	487.8	487.8	487.4	487.9	488.2	487.3	487.3	487.7	487.7	487.3
"				1D	°F	488.7	488.6	488.5	488.6	488.6	488.9	488.3	488.3	488.6	488.4	488.4	488.9	488.2	488.6	488.6	488.6	488.6	489.1	488.6	488.1	488.3	488.6	488.6
"				TB	1A	°F	0.05															463.95	465.0	463.4	464.1	462.9	0.05	
"				1B	°F	0.05																468.9	469.0	467.7	468.3	468.3	0.05	
"				1C	°F	0.05																467.55	468.9	466.8	467.3	465.9	0.05	
"				1D	°F	0.05																476.65	476.7	475.9	477.0	476.5	0.05	
IAC PURIF. LOOP FLOW					LB/HR X 10 ³					20.3			20.3	20.2	20.2	20.2	20.1	20.2	20.2	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.0
IBD					LB/HR X 10 ³					20.1			20.1	20.0	20.0	20.1	20.0	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1
IAC NON-REG. HX COOL TEMP IN				°F					150.1			151	151	151	152	153	153.5	151	125	150.5	153.5	153.6	154.0	153.9	153.9	153.9	153.9	153.9
IAC				OUT	°F				89			85	86	85	87	89	89	85	86	85	89	90	90	89	89	89	89	89
IBD				IN	°F				149.1			150	151	151	153	152	153.5	151	134	150.5	153.5	153.0	154.0	153.5	153.5	153.5	153.5	153.5
IBD				OUT	°F				85			86	88	87	90	90	90	86	89	86	90	91	90	89	91	91	91	91
TOTAL STEAM FLOW				LB/HR X 10 ³					93			94	93	93	94	94	88	94	94	88	93	93	94	94	94	94	94	90
CHARGING PUMP FLOW INTEG				TOTAL FT ³																								
1A THROTTLE STM. PRESS.				PSIG					522			524	524	520	525	525	525	525	525	525	525	528	525	525	525	525	524	524
1B				PSIG					520			522	523	520	529		529	524	524	523	525	524	523	524	524	524	524	524
1A				TEMP	°F				476			476	476	476	477	475	476	477	477	476	477	476	475	478	478	478	478	478
1B				°F					475			477	475	475	478	475	477	478	477	476	477	477	475	477	477	477	477	477
1A				CALOR.	°F				284			283	283	286	281	282	286	284	290	283	282	285	280	284	288	288	288	288
1B				°F					274			276	272	270	278	277	276	273	276	272	272	270	272	273	273	273	273	273
TURBINE VACUUM				IN. HG.					28.98			28.54	28.42	28.42	28.37	28.25	28.26	28.28	28.14	28.07	28.13	28.27	28.42	28.52	28.42	28.42	28.42	
F.W. TEMP. LVG. 1A HTR.				°F					157			156	157	156	155	156	156	155	156	156	155	155	156	155	156	155	156	
"				1C	°F				317			318	319	317	318	318	318	317	317	318	315	315	317	317	317	317	317	
BAROMETRIC PRESS.				IN. HG.					29.70			29.74	29.66	29.63	29.56	29.53	29.44	29.43	29.30	29.24	29.26	29.43	29.56	29.60	29.55	29.55	29.55	

SUBJECT DL-5-225 SHEET NO. 5

D. L.

COMPANY

SECTION I

P. S.

DEPARTMENT

REACTIVITY LIFETIME TEST

S. A. P. S.

DIVISION

CCW FILED BY

CHECKED BY

DATE

10/6/58 - 10/7/58

TABLE IV

DATE	TIME		10/6/58	10/7/58	10/7	10/7	10/7	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2030	2100	2130	2200	2230	2300	2330	2400
FEED WATER PRESS.			96	95								95											96		
BLR STEAM PRESS.	1A	P _{sig}	542	540								546											548		
"	"	1B	P _{sig}	498	500							500											500		
"	"	1C	P _{sig}	540	540							546											538		
"	"	1D	P _{sig}	458	450							420											420		
CALIB. T _c	1A	°F	487.9	488.5	488.1	487.9	488.0	488.0	488.0	488.0	488.0	488.1	488.5	488.7	488.8	487.9	487.3	488.2	488.2	487.9	488.2	488.3	488.1	487.9	488.4
"	1B	°F	487.5	487.9	487.9	487.9	488.3	488.3	488.3	488.3	488.1	488.3	488.6	488.7	488.8	487.7	487.0	488.0	487.9	487.5	487.7	487.9	487.6	487.3	487.9
"	1C	°F	487.4	487.8	487.5	487.4	487.4	487.4	487.4	487.8	487.9	487.7	487.4	488.0	488.3	487.3	486.7	487.7	487.6	487.3	487.6	487.8	487.9	487.3	487.7
"	1D	°F	488.2	489.2	489.2	488.2	488.6	488.8	488.8	488.6	488.8	488.1	489.2	489.3	489.3	488.2	487.7	488.4	488.5	488.0	488.2	488.1	488.2	488.0	488.4
"	T _d	1A	°F	0.05	0.05							469.1											470.8		
"	"	1B	°F	0.05	0.05							469.25											475.3		
"	"	1C	°F	0.05	0.05							469.7											472.2		
"	"	1D	°F	0.05	0.05							470.8											484.0		
1 AC PURIF. LOOP FLOW		10 ³ x $\frac{lb}{hr}$	20.0	20.0								20.0											20.0		
1 BD " " "		10 ³ x $\frac{lb}{hr}$	20.1	20.1								20.1											20.2		
1 AC NON-REG. HX COOL TEMP. IN		°F	159	153								159											154		
1 AC " " " " OUT		°F	90	88								89											90		
1 BD " " " " IN		°F	159	153								159											159		
1 BD " " " " OUT		°F	90	90								91											91		
TOTAL STEAM FLOW		10 ³ x $\frac{lb}{hr}$	94	95								91											91		
CHARGING PUMP FLOW INTEG.		TOTAL $\frac{lb}{hr}$	—	—								—											—		
1A THROTTLE STM. PRESS.		P _{sig}	522	525								526											520		
1B " " " "		P _{sig}	520	524								525											520		
1A " " " TEMP.		°F	475	477								477											475		
1B " " " "		°F	476	478								477											476		
1A " " CALOR. " "		°F	280	281								285											283		
1B " " " "		°F	276	276								278											260		
TURBINE VACUUM		IN. HG.	28.91	28.47								28.30											28.29		
E.W. TEMP. LVG. 1A HTR.		°F	155	154								156											159		
" " " 1C "		°F	317	317								318											316		
BAROMETRIC PRESS.		IN. HG.	29.50	29.52								29.39											29.36		

PROJECT DLS-225 SHEET NO. 6

D. L. COMPANY

Section I

P. S. DEPARTMENT

Reactivity Lifetime

S.A.P.S. DIVISION

PREPARED BY

CHECKED BY

DATE 10-8-58 to 10-11-58

TABLE IV

Date			10-8-58				10-7-58										10-11								
Time			0030	0700	1500	2300	0700	1500	1830	1900	1930	2000	2030	2100	2130	2200	2230	2300	2330	2400	0030	0700	1500	2300	0700
Feedwater Pressure		Psig.		96	96	96	96	96										97				95	97	97	97
Blr. Steam Press.	1A	Psig.		545	545	545	545	546										545				520	523	542	542
Blr. Steam Press.	1B	Psig.		500	500	500	495	500										500				449	500	500	498
Blr. Steam Press.	1C	Psig.		540	540	540	540	540										540				469	525	530	530
Blr. Steam Press.	1D	Psig.		420	400	320	265	235										200				120	510	520	520
Calib. Te	1A	°F	488.2	488.2	487.45	488.1	487.9	487.8	486.2	488.2	488.4	488.4	488.2	488.0	488.4	488.4	488.4	488.5	488.6	488.5	488.3	487.7	488.5	488.2	487.8
Calib. Te	1B	°F	487.7	488.3	487.5	487.5	487.9	487.8	487.9	487.8	487.5	487.8	487.3	487.3	487.8	487.8	487.9	488.1	488.1	487.8	487.5	488.1	487.9	487.9	487.3
Calib. Te	1C	°F	487.7	487.3	487.3	487.9	487.1	487.5	487.8	487.8	487.8	487.8	487.6	487.4	488.0	488.0	488.0	487.8	487.8	487.6	487.6	487.6	487.9	487.6	487.1
Calib. Te	1D	°F	488.4	488.5	488.6	488.1	488.4	487.7	488.6	488.6	488.6	487.5	488.4	488.0	487.8	487.8	487.8	488.5	488.5	487.6	488.2	488.8	488.8	488.5	487.8
Calib. Tb	1A	°F		469.4	465.9	511.6	463.5	462.2										463.5				462.0	466.2	464.0	464.1
Calib. Tb	1B	°F		467.4	517.5	515.2	467.7	467.1										463.4				466.5	468.6	467.4	467.1
Calib. Tb	1C	°F		465.9	512.95	516.0	462.6	462.6										465.2				462.0	591.9	468.0	463.6
Calib. Tb	1D	°F		496.7	526.15	525.5	476.5	476.5										476.5				486.1	609.4	497.7	476.9
1AC Purif. Loop Flow		$\frac{1}{2} \text{ hr} \times 10^3$		20.0	20.5	20.0	20.0	20.0										19.9				20.0	19.8	19.7	19.5
1BD Purif. Loop Flow		$\frac{1}{2} \text{ hr} \times 10^3$		20.1	21.0	20.0	20.0	20.0										20.0				20.0	20.0	20.0	20.0
1AC Non-Reg. HX Cool. Temp. IN		°F		152	147.2	154	155	155										155.5				147	144.2	154.5	155.5
1AC Non-Reg. HX Cool. Temp. OUT		°F		87	88	90	90	92										91				89	79	91	90
1BD Non-Reg. HX Cool. Temp. IN		°F		154	147.2	154.5	155.0	156										156				147.8	145.2	154.5	155.2
1BD Non-Reg. HX Cool. Temp. OUT		°F		89	90	91	91	92										92				91	82	92	92
Total Steam Flow		$\frac{1}{2} \text{ hr} \times 10^3$		94	94	92.5	93	93										93				93	93	93.5	94
Charging Pump Flow Integ.		Fe ³																				192105	192105		
1A Throttle Steam Press.		Psig.		524	525	523	525	525										525				524	526	524	525
1B Throttle Steam Press.		Psig.		523	524	522	524	524										524				525	525	522	524
1A Throttle Steam Temp.		°F		475	477	475	475	477										476				477	477	477	477
1B Throttle Steam Temp.		°F		477	476	476	476	478										478				478	477	478	478
1A Throttle Calor. Temp.		°F		289	283	284	283	287										281.5				288	284	286	287
1B Throttle Calor. Temp.		°F		272	280	274	275	276										271				278	275	272	273
Turbine Vacuum		In. Hg.		28.22	28.16	28.19	28.19	28.20										28.12				28.11	28.11	28.20	28.34
FW Temp. Inj. 1A Htr.		°F		155	158	155	155	156										155				158	156	155	155
FW Temp. Inj. 1C Htr.		°F		315	318	316	315	316										317				318	318	317	317
Barometric Pressure		In. Hg.		29.30	29.36	29.28	29.27	29.21										29.22				29.19	29.35	29.36	29.40

SUBJECT DL-5-225 SHEET NO. 7
 COMPANY SECTION I
 DEPARTMENT REACTIVITY LIFETIME
 DIVISION JAPS COMPILED BY _____ CHECKED BY _____ DATE 10-11-58

TABLE IV

Date			10-11-58 10-11																				10-12		
Time			0730	0800	0830	1430	1500	1530	1600	1630	1700	1730	1800	1830	1900	1930	2000	2030	2100	2130	2200	2230	2300	2400	2430
Feedwater Pressure	psig						97																97		
Blr. Steam Press. 1A	psig						595																550		
Blr. Steam Press. 1B	psig						500																500		
Blr. Steam Press. 1C	psig						530																530		
Blr. Steam Press. 1D	psig						520																520		
Calib. T ₁	1A	°F	487.7	487.7	487.7	488.5	488.5	488.5	488.3	488.3	488.1	488.1	487.8	487.8	488.0	488.1	488.1	488.1	488.1	487.7	488.7	488.5	488.5	488.5	488.3
Calib. T ₂	1B	°F	488.3	488.3	488.3	488.1	488.1	487.9	487.8	487.5	487.4	487.3	487.0	487.0	487.3	487.7	487.9	487.7	487.5	488.6	488.5	488.6	488.6	488.5	488.5
Calib. T ₃	1C	°F	487.1	487.1	487.1	487.9	487.9	487.8	487.7	487.6	487.4	487.4	487.2	487.2	487.3	487.7	487.7	487.9	487.8	487.4	488.5	488.2	488.2	488.0	487.6
Calib. T ₄	1D	°F	490.0	488.9	488.9	488.9	488.9	488.9	488.6	488.7	488.2	488.1	487.9	487.9	488.0	488.6	488.8	488.0	489.0	488.0	489.9	489.6	489.6	489.4	489.2
Calib. T ₅	1A	°F					463.3																		
Calib. T ₆	1B	°F					465.3																		
Calib. T ₇	1C	°F					465.0																		
Calib. T ₈	1D	°F					476.8																		
1AC Purif. Loop Flow	1/2 hr. x 10 ³						19.8																19.8		
1BD Purif. Loop Flow	1/2 hr. x 10 ³						20.1																20.0		
1AC Non-Reg. HX Cool. Temp. IN	°F						155.5																155		
1AC Non-Reg. HX Cool. Temp. OUT	°F						92																92		
1BD Non-Reg. HX Cool. Temp. IN	°F						155.5																156		
1BD Non-Reg. HX Cool. Temp. OUT	°F						93																94		
Total Steam Flow	1/2 hr. x 10 ³						94																94		
Charging Pump Flow Integ.	FT ³						—																—		
1A Throttle Steam Press.	psig						525																526		
1B Throttle Steam Press.	psig						521																526		
1A Throttle Steam Temp.	°F						477																477		
1B Throttle Steam Temp.	°F						478																478		
1A Throttle Calor. Temp.	°F						281																283		
1B Throttle Calor. Temp.	°F						280																275		
Turbine Vacuum	in. Hg.						28.41																28.57		
FW Temp. 1/2 1A Htr.	°F						155																155		
FW Temp. 1/2 1C Htr.	°F						317																317		
Barometric Pressure	in. Hg.						29.48																29.62		

DL

COMPANY

SUBJECT DL-S-225, Sect. I

SHEET NO. 8

PS

DEPARTMENT

REACTIVITY LIFETIME

SAPS

DIVISION

COMPILED BY

CHECKED BY

DATE 10-12-58

TABLE IV

FORM GSB-7112

DATE	TIME			10-12-58	0100	0130	0200	0230	0300	0330	0400	0430	0500	0600	0630	0700	0730	0800	1500	1530	1600	1630	1700	1730	1800	1830	1900	1912
Feedwater Pressure		PSIG														97			97									
Blr. Steam Press	1A	PSIG														540			542									
"	"	1B	PSIG													500			498									
"	"	1C	PSIG													522			530									
"	"	1D	PSIG													518			520									
Colib. Tc	1A	°F		487.8	487.6	487.6	487.4	488.0	488.0	488.0	487.8	487.6	487.8	487.8	488.1	488.2	487.7	487.5	487.5	487.4	487.6	487.7	487.7	487.7	487.7	487.7	487.7	487.7
"	"	1B	°F	487.9	487.9	487.7	487.5	488.1	488.1	488.1	487.7	487.9	488.1	488.1	488.1	487.7	487.3	487.2	487.0	487.1	487.3	487.3	487.3	487.3	487.3	487.3	487.3	487.3
"	"	1C	°F	487.2	487.1	486.7	486.7	487.2	487.2	486.9	486.9	486.5	486.9	487.1	487.1	488.0	487.3	487.4	487.1	487.3	487.5	487.5	487.5	487.4	487.4	487.4	487.3	487.3
"	"	1D	°F	488.8	488.8	488.2	488.2	488.8	488.8	488.8	488.6	488.2	488.3	488.6	488.6	489.0	488.9	488.4	488.2	488.2	488.5	488.5	488.4	488.4	488.4	488.4	488.3	488.3
"	TB	1A	°F																									
"	"	1B	°F													5			6									
"	"	1C	°F													0			0									
"	"	1D	°F													0			0									
1 AC Purif. Loop Flow		10 ³ GPM														19.9			19.8									
1 BD " " "		10 ³ GPM														20.0			20.0									
1 AC Non-Reg. Hx. Cool. Temp	1A	°F														155			156									
1 AC " " " " " OUT		°F														91			95									
1 BD " " " " " IN		°F														158			157.5									
1 BD " " " " " OUT		°F														91			96									
TOTAL STEAM FLOW		10 ³ GPM														94			93									
Charging Pump Flow Integ.		FE ³														-			-									
1A Throttle steam Press.		PSIG														524			524									
1B " " " "		PSIG														524			522									
1A " " " Temp		°F														477			477									
1B " " " "		°F														477			478									
1A " " " "		°F														285			287									
1B " " " "		°F														274			279									
Turbine Vacuum		IN. HG.														28.66			28.65									
FW Temp. 1A Htr		°F														155			155									
FW " 1C Htr		°F														318			317									
Barometric Pressure		IN. HG.														29.62			29.72									

BH

DL
PS
SA PS

DL-S-225 Section I 9
Reactivity Lifetime

Test Group 10-12-58

TABLE IV

Date		10-12-58		10-12-58		10-14-58																		
Time		1930	2000	2030	2100	2300	0700	1500	1530	1600	1630	1700	1730	1800	1830	1900	1930	2000	2300	0700	1030	1100	1130	1200
Feedwater Pressure	Psig.					97	97	97											97	97				
Blr Steam Pressure	1A Psig.					540	540	540											510	545				
"	1B Psig.					500	495	500											500	500				
"	1C Psig.					525	520	530											515	530				
"	1D Psig.					520	505	520											525	520				
Calib T ₀	1A °F	487.7	487.7	487.7	487.9	487.9	487.9	487.9	487.9	487.9	487.9	488.0	488.1	488.1	488.2	488.1	487.9	488.0	488.3	488.4	487.7	488.3	488.3	488.3
"	1B °F	487.5	487.5	487.6	487.7	487.9	488.1	488.35	487.5	487.5	487.5	487.6	487.7	487.7	487.9	487.9	488.1	487.7	488.5	488.6	487.5	487.9	487.9	487.9
"	1C °F	487.6	487.4	487.6	487.5	487.2	487.1	487.9	487.8	487.8	487.8	487.9	488.0	488.0	487.8	487.25	487.25	487.4	487.6	487.2	488.0	488.0	488.0	488.0
"	1D °F	488.6	488.6	488.6	488.6	488.6	488.6	488.6	488.7	488.7	488.8	488.9	489.0	489.0	489.0	489.0	489.0	489.0	489.1	488.8	489.0	489.1	489.0	489.0
Calib T ₀	1A °F					0.05	0.05	0.05																
"	1B °F																							
"	1C °F																							
"	1D °F																							
1AC Purif. Loop Flow	lb/hr x 10 ³					19.9	19.8	19.9												19.8				
1BD " " "	lb/hr x 10 ³					20.0	20.0	20.0												20.0				
1AC Non-Reg. HX Cool Temp IN	°F					157	155	156											146	152				
1AC " " " " out	°F					92	91	91											96	89				
1BD " " " " IN	°F					158	156	156											146.8	153.5				
1BD " " " " out	°F					93	92	93											98	90				
Total Steam Flow	lb/hr x 10 ³					94	95	93											94	95				
Charging Pump Flow Integ.	ft ³																		192105					
1A Throttle Steam Press	psig					524	523	525											525	525				
1B " " "	psig					521	521	525											524	524				
1A " " Temp.	°F					476	476	476											476	475				
1B " " Temp.	°F					477	477	478											476	476				
1A " Calor. "	°F					289	283	284											283	277				
1B " " "	°F					274	270	272											280	267				
Turbine Vacuum	in. Hg.					28.65	28.64	28.59											28.64	28.61				
FW Temp Avg. 1A Htr.	°F					155	154	155											156	154				
FW " " 1C "	°F					317	317	317											317	317				
Barometric Pressure	m. Hg.					29.74	29.71	29.64											29.69	29.66				

DL
PS
SAPS

TEST GROUP: 10-14-58

TABLE IV

DATE	TIME		10/14/58	11/14/58	12/14/58	1/14/59	2/14/59	3/14/59	4/14/59	5/14/59	6/14/59	7/14/59	8/14/59	9/14/59	10/14/59	11/14/59	12/14/59	1/14/60	2/14/60	3/14/60	4/14/60	5/14/60	6/14/60	7/14/60	8/14/60	9/14/60	10/14/60	11/14/60	12/14/60	1/14/61	2/14/61	3/14/61	4/14/61	5/14/61	6/14/61	7/14/61	8/14/61	9/14/61	10/14/61	11/14/61	12/14/61	1/14/62	2/14/62	3/14/62	4/14/62	5/14/62	6/14/62	7/14/62	8/14/62	9/14/62	10/14/62	11/14/62	12/14/62	1/14/63	2/14/63	3/14/63	4/14/63	5/14/63	6/14/63	7/14/63	8/14/63	9/14/63	10/14/63	11/14/63	12/14/63	1/14/64	2/14/64	3/14/64	4/14/64	5/14/64	6/14/64	7/14/64	8/14/64	9/14/64	10/14/64	11/14/64	12/14/64	1/14/65	2/14/65	3/14/65	4/14/65	5/14/65	6/14/65	7/14/65	8/14/65	9/14/65	10/14/65	11/14/65	12/14/65	1/14/66	2/14/66	3/14/66	4/14/66	5/14/66	6/14/66	7/14/66	8/14/66	9/14/66	10/14/66	11/14/66	12/14/66	1/14/67	2/14/67	3/14/67	4/14/67	5/14/67	6/14/67	7/14/67	8/14/67	9/14/67	10/14/67	11/14/67	12/14/67	1/14/68	2/14/68	3/14/68	4/14/68	5/14/68	6/14/68	7/14/68	8/14/68	9/14/68	10/14/68	11/14/68	12/14/68	1/14/69	2/14/69	3/14/69	4/14/69	5/14/69	6/14/69	7/14/69	8/14/69	9/14/69	10/14/69	11/14/69	12/14/69	1/14/70	2/14/70	3/14/70	4/14/70	5/14/70	6/14/70	7/14/70	8/14/70	9/14/70	10/14/70	11/14/70	12/14/70	1/14/71	2/14/71	3/14/71	4/14/71	5/14/71	6/14/71	7/14/71	8/14/71	9/14/71	10/14/71	11/14/71	12/14/71	1/14/72	2/14/72	3/14/72	4/14/72	5/14/72	6/14/72	7/14/72	8/14/72	9/14/72	10/14/72	11/14/72	12/14/72	1/14/73	2/14/73	3/14/73	4/14/73	5/14/73	6/14/73	7/14/73	8/14/73	9/14/73	10/14/73	11/14/73	12/14/73	1/14/74	2/14/74	3/14/74	4/14/74	5/14/74	6/14/74	7/14/74	8/14/74	9/14/74	10/14/74	11/14/74	12/14/74	1/14/75	2/14/75	3/14/75	4/14/75	5/14/75	6/14/75	7/14/75	8/14/75	9/14/75	10/14/75	11/14/75	12/14/75	1/14/76	2/14/76	3/14/76	4/14/76	5/14/76	6/14/76	7/14/76	8/14/76	9/14/76	10/14/76	11/14/76	12/14/76	1/14/77	2/14/77	3/14/77	4/14/77	5/14/77	6/14/77	7/14/77	8/14/77	9/14/77	10/14/77	11/14/77	12/14/77	1/14/78	2/14/78	3/14/78	4/14/78	5/14/78	6/14/78	7/14/78	8/14/78	9/14/78	10/14/78	11/14/78	12/14/78	1/14/79	2/14/79	3/14/79	4/14/79	5/14/79	6/14/79	7/14/79	8/14/79	9/14/79	10/14/79	11/14/79	12/14/79	1/14/80	2/14/80	3/14/80	4/14/80	5/14/80	6/14/80	7/14/80	8/14/80	9/14/80	10/14/80	11/14/80	12/14/80	1/14/81	2/14/81	3/14/81	4/14/81	5/14/81	6/14/81	7/14/81	8/14/81	9/14/81	10/14/81	11/14/81	12/14/81	1/14/82	2/14/82	3/14/82	4/14/82	5/14/82	6/14/82	7/14/82	8/14/82	9/14/82	10/14/82	11/14/82	12/14/82	1/14/83	2/14/83	3/14/83	4/14/83	5/14/83	6/14/83	7/14/83	8/14/83	9/14/83	10/14/83	11/14/83	12/14/83	1/14/84	2/14/84	3/14/84	4/14/84	5/14/84	6/14/84	7/14/84	8/14/84	9/14/84	10/14/84	11/14/84	12/14/84	1/14/85	2/14/85	3/14/85	4/14/85	5/14/85	6/14/85	7/14/85	8/14/85	9/14/85	10/14/85	11/14/85	12/14/85	1/14/86	2/14/86	3/14/86	4/14/86	5/14/86	6/14/86	7/14/86	8/14/86	9/14/86	10/14/86	11/14/86	12/14/86	1/14/87	2/14/87	3/14/87	4/14/87	5/14/87	6/14/87	7/14/87	8/14/87	9/14/87	10/14/87	11/14/87	12/14/87	1/14/88	2/14/88	3/14/88	4/14/88	5/14/88	6/14/88	7/14/88	8/14/88	9/14/88	10/14/88	11/14/88	12/14/88	1/14/89	2/14/89	3/14/89	4/14/89	5/14/89	6/14/89	7/14/89	8/14/89	9/14/89	10/14/89	11/14/89	12/14/89	1/14/90	2/14/90	3/14/90	4/14/90	5/14/90	6/14/90	7/14/90	8/14/90	9/14/90	10/14/90	11/14/90	12/14/90	1/14/91	2/14/91	3/14/91	4/14/91	5/14/91	6/14/91	7/14/91	8/14/91	9/14/91	10/14/91	11/14/91	12/14/91	1/14/92	2/14/92	3/14/92	4/14/92	5/14/92	6/14/92	7/14/92	8/14/92	9/14/92	10/14/92	11/14/92	12/14/92	1/14/93	2/14/93	3/14/93	4/14/93	5/14/93	6/14/93	7/14/93	8/14/93	9/14/93	10/14/93	11/14/93	12/14/93	1/14/94	2/14/94	3/14/94	4/14/94	5/14/94	6/14/94	7/14/94	8/14/94	9/14/94	10/14/94	11/14/94	12/14/94	1/14/95	2/14/95	3/14/95	4/14/95	5/14/95	6/14/95	7/14/95	8/14/95	9/14/95	10/14/95	11/14/95	12/14/95	1/14/96	2/14/96	3/14/96	4/14/96	5/14/96	6/14/96	7/14/96	8/14/96	9/14/96	10/14/96	11/14/96	12/14/96	1/14/97	2/14/97	3/14/97	4/14/97	5/14/97	6/14/97	7/14/97	8/14/97	9/14/97	10/14/97	11/14/97	12/14/97	1/14/98	2/14/98	3/14/98	4/14/98	5/14/98	6/14/98	7/14/98	8/14/98	9/14/98	10/14/98	11/14/98	12/14/98	1/14/99	2/14/99	3/14/99	4/14/99	5/14/99	6/14/99	7/14/99	8/14/99	9/14/99	10/14/99	11/14/99	12/14/99	1/14/00	2/14/00	3/14/00	4/14/00	5/14/00	6/14/00	7/14/00	8/14/00	9/14/00	10/14/00	11/14/00	12/14/00	1/14/01	2/14/01	3/14/01	4/14/01	5/14/01	6/14/01	7/14/01	8/14/01	9/14/01	10/14/01	11/14/01	12/14/01	1/14/02	2/14/02	3/14/02	4/14/02	5/14/02	6/14/02	7/14/02	8/14/02	9/14/02	10/14/02	11/14/02	12/14/02	1/14/03	2/14/03	3/14/03	4/14/03	5/14/03	6/14/03	7/14/03	8/14/03	9/14/03	10/14/03	11/14/03	12/14/03	1/14/04	2/14/04	3/14/04	4/14/04	5/14/04	6/14/04	7/14/04	8/14/04	9/14/04	10/14/04	11/14/04	12/14/04	1/14/05	2/14/05	3/14/05	4/14/05	5/14/05	6/14/05	7/14/05	8/14/05	9/14/05	10/14/05	11/14/05	12/14/05	1/14/06	2/14/06	3/14/06	4/14/06	5/14/06	6/14/06	7/14/06	8/14/06	9/14/06	10/14/06	11/14/06	12/14/06	1/14/07	2/14/07	3/14/07	4/14/07	5/14/07	6/14/07	7/14/07	8/14/07	9/14/07	10/14/07	11/14/07	12/14/07	1/14/08	2/14/08	3/14/08	4/14/08	5/14/08	6/14/08	7/14/08	8/14/08	9/14/08	10/14/08	11/14/08	12/14/08	1/14/09	2/14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SUBJECT DL-S-225 SECTION I SHEET NO. 11

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COMPANY

REACTIVITY LIFETIME

PS

DEPARTMENT

SAPS

DL SIGN

COMPILED BY DET GROUP CHECKED BY

DATE 10-15-58 to 10-17-58

TABLE IV

DATE	TIME		10-15	10-15	10-15	10-15	10-15	10-15	10-15	10-15	10-15	10-15	10-15	10-15	10-15	10-15	10-15	10-15	10-15	10-15	10-15	10-15	10-16	10-16	10-17	
			0000	0030	0100	0130	0200	0230	0300	0400	0500	0600	0700	0830	0900	0930	1000	1030	1100	1500	2300	0700	1500	2300	0700	
FEEDWATER PRESSURE		PSIA											97								92	92	97	97	97	97
B.L.R. STEAM PRESSURE	1A	PSIG											550								550	550	550	550	545	545
"	1B	PSIG											500								500	500	500	500	500	495
"	1C	PSIG											530								540	540	540	540	540	540
"	1D	PSIG											520								520	520	525	525	525	525
CALIB. T ₀	1A	°F	488.1	488.3	488.5	488.5	488.7	488.7	488.9	489.3	488.3	487.6	488.7	488.2	488.3	488.3	488.4	488.3	488.3	488.1	488.5	488.1	488.5	488.2	487.7	
"	1B	°F	488.0	488.3	488.5	488.5	488.7	488.7	488.9	489.3	488.3	487.6	488.7	488.2	488.3	488.3	488.4	488.3	488.3	488.1	488.5	488.1	488.5	488.0	487.7	
"	1C	°F	487.3	487.4	487.8	487.8	487.9	487.9	488.0	487.7	487.8	486.7	488.0	487.6	487.6	487.8	487.8	487.9	487.8	487.5	487.8	487.6	488.0	487.3	487.9	
"	1D	°F	488.6	488.8	489.0	489.2	489.2	489.2	489.2	489.2	489.2	489.0	489.05	489.4	489.0	489.0	489.0	489.2	489.0	488.8	488.8	488.8	489.2	488.5	488.5	
CALIB. T _B	1A	°F											005								0.05	0.05	0.05	0.05	005	005
"	1B	°F																								
"	1C	°F																								
"	1D	°F																								
I.A.C. PORIF. LOOP FLOW		1000 GPM											19.8								19.7	19.8	19.8	19.8	19.8	19.7
I.B.D. " " "		1000 GPM											20.0								20.0	20.0	20.0	20.0	20.0	20.0
I.A.C. NON-REC. BY COOL. TEMP. IN		°F											149								150	144.8	148.5	150.0	150	149
I.A.C. " " " " OUT		°F											84								85	84	84	85	86	85
I.B.D. " " " " IN		°F											150								150	145	150	150.5	151.5	150
I.B.D. " " " " OUT		°F											85								86	85	85	86	87	86
TOTAL STEAM FLOW		1000 GPM											93								92	92	94	94	93	95
CONDENS. PUMP FLOW INTER.		FT ³																								
I.A. THROTTLE STEAM PRESS.		PSIA											525								525	525	525	527	525	525
I.B. " " "		PSIA											525								525	525	525	526	524	523
I.A. " " TEMP		°F											477								477	477	476	477	477	476
I.B. " " "		°F											477								477	478	477	478	478	477
I.A. " " CALOR		°F											284								284	286	290	287	287	282
I.B. " " "		°F											272								274	280	278	279	274	269
TURBINE VACUUM		IN-HG											28.53								28.44	28.40	28.36	28.26	28.29	28.21
FW TEMP. NR. 1A DTR		°F											155								155	156	155	155	155	155
FW " " 1C "		°F											315								317	317	316	317	318	318
BAROMETRIC PRESSURE		IN-HG											29.57								29.48	29.50	29.42	29.33	29.33	29.31

REACTIVITY LIFETIME

— 229 —

TEST GROUP

10-17-58 to 10-21-58

TABLE IV

DATE		10-17-58				10-18-58				10-19-58				10-20-58				10-21-58				10-22-58			
TIME		1500	2300	0700	1500	2300	0700	1500	2300	0700	1500	2300	0700	1500	2300	0700	1500	2300	0700	1500	2300	0700			
FEEDWATER PRESSURE		PSIG	97	97	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98			
BLR. STEAM PRESSURE		PSIG	540	545	545	545	550	550	555	550	545	555	547												
" " " " IB		PSIG	500	500	500	500	500	500	500	500	500	500	500												
" " " " IC		PSIG	540	535	535	540	535	550	550	535	530	550	533												
" " " " ID		PSIG	535	530	525	530	530	527	530	530	505	535	520												
CALIB. TC		°F	988.1	988.9	988.6	988.7	988.2	988.5	987.9	988.6	988.1	988.3	988.5	988.7	988.7	988.8	988.9	988.9	988.9	988.9	988.9	988.9			
" " " " IB		°F	988.1	988.3	988.9	988.5	988.4	988.9	987.9	988.9	987.9	987.8	988.3	988.5	988.5	988.5	988.5	988.5	988.5	988.5	988.5	988.5			
" " " " IC		°F	987.9	987.9	988.2	987.9	987.8	987.8	987.3	987.9	987.9	987.9	988.0	988.4	988.4	988.4	988.4	988.4	988.4	988.4	988.4	988.4			
" " " " ID		°F	988.6	988.9	988.6	989.0	988.9	989.0	988.4	989.0	988.7	988.9	989.0	989.4	989.4	989.5	989.4	989.4	989.4	989.4	989.4	989.4			
CALIB TB		°F																							
" " " " IB		°F	0.05	0	0	0.05	0.05																		
" " " " IC		°F	0.05	0	0	0.05	0.05																		
" " " " ID		°F	0.05	0	0	0.05	0.05																		
IAC PURIF. LOOP FLOW		1/2 HR/100	19.8	19.8	19.8	19.7	19.8	19.8	19.8	19.7	19.8	19.7	19.6												
IBD " " " "		1/2 HR/100	19.9	19.9	19.9	19.8	19.9	19.9	19.9	19.9	19.9	20.0	20.0												
IAC NON-REG. HX. COOL. TEMP. IN		°F	149	149.5	149	150	149.5	149.5	149.5	149	149.5	149.8	149												
IAC " " " " OUT		°F	85	84	85	85	86	84	88	84	83	83	84												
IBD " " " " IN		°F	151	149.2	150	151	151	149	143	143	143	142	144.5												
IBD " " " " OUT		°F	87	85	85	86	87	86	88	86	89	85	85												
TOTAL STEAM FLOW		1/2 HR/100	95	94	94	94	95	95	94	94	95	94	94												
CHARGING PUMP FLOW INTEG		FT ³																							

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REACTIVITY LIFETIME

SAPS

10-21-58 to 10-25-58

TABLE IV

[illegible]

8M

PLS-225 SECTION I

D.L. Co.

P.S.

SHIPPING PORT

REACTIVITY LIFETIME

TEST GROUP

9-22-58 TO 10/1/58

Table r

BLANKET FLOW

DATE	9-22-58	9-23-58	9-24-58	9-25-58	9-26-58	9-27-58	9-28-58	9-29-58	9-30-58	10-1-58
TIME	1515	2300	0700	1500	2300	0700	1500	2300	0700	1500
Pt.	1515	2300	0700	1500	2300	0700	1500	2300	0700	1500
1	94.4	94.5	94.6	94.5	94.6	94.5	94.4	94.5	94.5	94.3
2	105.1	105.1	105.2	105.2	105.1	105.1	105.1	105.1	105.1	105.1
3	90.3	90.6	90.6	90.7	90.7	90.8	90.2	90.5	90.4	90.3
4	-	-	-	-	-	-	-	-	-	-
5	90.5	90.7	90.7	90.4	90.5	90.7	90.4	90.2	90.1	90.1
6	105.1	105.0	105.1	105.2	105.1	105.1	105.1	105.1	105.1	105.1
7	94.3	94.6	94.5	94.5	94.5	94.4	94.4	94.5	94.3	94.3
8	99.4	99.5	99.4	98.9	99.1	99.4	98.8	99.2	99.1	98.7
9	101.4	101.5	101.2	101.0	101.3	101.4	101.0	101.2	100.6	100.6
10	97.8	98.5	98.5	98.1	98.2	98.2	97.6	98.1	97.6	97.6
11	99.5	100.0	100.0	99.4	100.0	100.0	99.5	99.5	99.2	99.5
12	100.4	100.9	101.0	100.2	100.7	100.8	100.0	100.5	100.0	100.0
13	99.2	99.1	99.4	99.2	99.3	98.5	98.8	99.1	98.8	98.5
14	99.6	99.8	99.9	99.5	99.4	99.8	99.3	99.5	99.2	99.1
15	99.2	99.3	99.3	99.4	99.2	99.4	99.2	99.4	99.3	99.1
16	99.3	99.4	99.4	99.2	99.4	99.2	99.4	99.0	98.9	99.1
17	101.2	101.5	101.6	101.2	101.4	101.6	101.0	101.5	100.6	100.5
18	105.0	105.1	105.1	105.2	105.1	105.1	105.1	105.1	105.1	105.1
19	95.5	95.8	95.8	96.4	95.6	95.7	95.2	95.3	95.2	95.4
20	93.0	93.2	93.2	93.0	93.1	93.2	92.9	93.1	93.0	92.8
21	105.0	105.0	105.0	105.2	105.1	105.1	105.1	105.1	105.1	105.1
22	105.0	105.0	105.0	105.1	105.1	105.1	105.1	105.1	105.1	105.1
23	105.0	105.0	105.0	105.1	105.1	105.1	105.1	105.1	105.1	105.1
24	105.0	105.0	105.0	105.1	105.1	105.1	105.1	105.1	105.1	105.1

DL-S-225 Section I
Reactivity Lifetime

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DL
PS
SAPS

Test Group

9-22-58 to 10-1-58

Table V (cont'd)

Seed Flow

Date	9-22-58				9-23-58				9-24-58				9-25-58				9-26-58				9-27-58				9-28-58				9-29-58				9-30-58				10-1-58			
Time	1500	2300	0700	1500	2300	0700	1500	2300	0700	1500	2300	0700	1500	2300	0700	1500	2300	0700	1500	2300	0700	1500	2300	0700	1500	2300	0700	1500	2300	0700	1500	2300	0700	1500						
Pt No																																								
1	*	*	*	107.0	*	*	*	106.9	107.2	107.1	107.2	107.1	106.8	106.8	*	107.6	*	*	108.7	*	*	*	*	107.7	107.6	*	107.7	107.7												
2				*				*	*	*	*	*	*	*		*			*				*	*	*	*	*	*	*	*	*	*	*	*	*					
3																																								
4																																								
5				107.2				107.0	107.0	106.6	107.3	107.2	107.3	107.2	107.0	107.3																								
6				109.0				109.0	108.9	108.5	108.9	109.0	109.1	109.1	107.5	109.0																								
7				107.5				107.0	107.9	107.9	107.9	107.8	108.1	107.8	107.5	107.9																								
8				*				*	*	*	*	*	*	*	*	*																								
9																																								
10																																								
11																																								
12																																								
13																																								
14				109.3				108.4	108.5	109.0	108.8	109.0	108.9	109.0	108.8																									
15				110.0				*	*	*	*	*	*	*	*	*																								
16				107.2				107.2	107.0	107.2	107.2	107.2	107.2	107.0	107.3																									

* Recorder Reading Off Scale.

SUBJECT DL-S-225 SECTION I SHEET NO. 2

D.L.

COMPANY

P.S.

DEPARTMENT

REACTIVITY LIFETIME

SAPS

DIVISION

COMPILED BY TEST GROUP CHECKED BY

DATE 10-1-58 To 10-10-58

TABLE V

BLANKET FLOW																												
DATE	10-1-58	10-2-58	10-3-58	10-4-58	10-5-58	10-6-58	10-7-58	10-8-58	10-9-58	10-10-58	10-11-58	10-12-58	10-1-59	10-2-59	10-3-59	10-4-59	10-5-59	10-6-59	10-7-59	10-8-59	10-9-59	10-10-59	10-11-59	10-12-59	10-1-60			
TIME	2300	0700	1500	2300	0700	1500	2300	0700	1500	2300	0700	1500	2300	0700	1500	2300	0700	1500	2300	0700	1500	2300	0700	1500	2300			
PT.																												
1	95.0	95.4	95.3	95.0	95.0	95.2	95.0	95.3	95.5	95.3	95.5	95.2	95.5	95.4	95.5	95.0	95.3	95.2	95.3	95.2	95.5	95.0	95.0	95.3	95.2	95.2		
2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.3	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2		
3	91.0	91.5	90.9	91.2	90.8	91.0	91.2	91.3	91.0	91.1	92.2	91.3	91.3	91.4	91.2	91.4	91.4	91.0	91.5	91.2	91.5	91.5	91.0	91.3	91.2	91.3		
4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
5	91.0	91.2	90.7	90.6	90.6	91.0	91.0	90.9	90.6	90.7	90.5	90.5	90.9	91.2	90.6	90.6	90.8	90.6	91.0	91.0	90.6	90.9	90.8	91.3	90.6	90.7	91.1	90.9
6	105.1	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.3	105.2	105.3	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.1	
7	95.0	95.0	94.8	94.9	94.9	94.8	94.9	94.9	95.0	95.0	94.8	94.8	95.2	94.8	95.0	95.1	94.8	95.0	95.0	94.8	94.8	94.7	94.8	94.8	94.8	94.8	94.8	
8	100.0	100.3	100.5	100.0	100.1	99.8	99.8	100.1	100.2	100.1	99.8	100.4	100.7	100.4	100.2	100.5	99.9	100.0	100.0	100.3	100.0	100.6	99.9	99.6	99.8	99.8	100.5	
9	101.7	102.0	102.2	102.2	101.9	102.0	102.0	102.3	101.7	102.0	101.9	101.8	101.9	102.3	102.2	101.8	102.2	101.5	101.7	101.9	101.8	101.7	102.2	101.7	101.8	102.1	102.0	
10	98.5	98.7	98.7	98.8	98.7	98.3	98.5	98.7	98.5	98.5	98.4	98.7	98.8	98.5	98.4	98.8	98.3	98.5	98.1	98.5	98.9	98.6	98.2	98.5	98.5	98.5	98.5	
11	100.5	100.5	100.0	100.5	100.0	100.3	100.3	100.6	100.5	100.3	100.4	100.0	100.2	100.8	100.5	100.5	100.2	100.2	100.6	100.3	100.4	100.6	100.1	100.0	100.1	100.5	100.8	
12	101.0	101.5	101.8	101.2	101.0	101.2	101.9	101.5	101.2	101.0	101.1	101.8	101.5	101.7	101.2	101.0	101.2	101.0	101.0	101.1	101.0	101.0	100.9	101.0	101.0	101.0	101.0	
13	100.0	100.2	99.7	99.8	99.9	99.8	99.8	99.7	99.5	99.6	99.6	99.7	99.8	100.5	99.6	99.9	100.0	99.8	99.8	99.8	100.0	100.0	99.7	99.3	99.6	99.8	100.1	
14	100.0	100.5	100.1	99.8	100.1	100.2	100.3	100.3	100.0	100.2	100.1	99.7	100.6	100.7	100.3	100.1	100.1	99.9	100.2	100.2	100.0	100.2	100.2	99.9	100.3	99.7	100.3	100.2
15	99.7	100.0	99.8	99.6	99.8	100.0	99.6	99.6	99.9	99.6	99.8	99.6	99.7	100.0	99.8	99.3	99.6	99.2	99.8	99.8	99.6	99.6	100.0	99.2	99.9	99.8	99.9	
16	99.9	100.0	100.0	99.8	99.8	100.0	99.9	99.9	99.6	99.6	99.8	99.4	99.9	100.3	99.8	99.7	99.8	99.3	99.7	99.8	99.8	100.0	100.0	99.9	99.8	99.8	100.0	
17	102.6	101.9	102.0	101.9	101.7	102.0	102.0	102.1	102.0	101.8	102.0	101.3	102.1	102.6	102.0	101.8	101.9	101.5	101.6	101.9	101.9	101.9	102.0	101.7	101.8	101.8	102.0	
18	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.1	105.2	105.2	105.2	105.2	105.2	105.6	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.1	
19	96.0	96.0	95.8	96.0	96.0	95.9	96.0	96.0	95.6	95.7	96.1	96.0	96.1	96.2	96.0	96.0	96.1	95.7	96.0	96.0	96.0	95.9	96.0	95.9	95.8	96.0	96.0	
20	93.5	94.5	93.5	93.6	93.6	93.6	93.6	93.7	93.4	93.6	93.9	93.6	93.8	94.0	93.8	93.8	94.0	93.8	94.0	94.0	93.8	94.0	93.9	93.7	94.0	94.0	94.0	
21	105.1	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.3	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	
22	105.1	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.3	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	
23	105.1	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.3	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	
24	105.1	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.3	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	

REACTIVITY LIFETIME

DL

COMPANY

PS

DEPARTMENT

SAPS

DIVISION

COMPILED BY TEST GROUP CHECKED BY

DATE 10-1-58 To 16-10-58

TABLE V

		SEED FLOW																											
DATE	10-1-58	10-2-58	10-2-58	10-2-58	10-3-58			10-4-58	10-4-58	10-4-58	10-5-58	10-5-58	10-5-58	10-6-58	10-6-58	10-6-58	10-7	10-7	10-7	10-8-58	10-8-58	10-8-58	10-9-58	10-9-58	10-9-58	10-10-58	10-10-58	10-10-58	
TIME	2300	0700	1500	2300	0700	1500	1300	0700	1500	2300	0700	1500	2300	0700	1500	2300	0700	1500	2300	0700	1500	2300	0700	1500	2300	0700	1500	2300	
Pr. No																													
1	107.9	107.9	*	108.0	107.6	107.7	107.6	107.8	107.6	107.7	107.6	107.8	107.8	*	*	107.6	107.9	107.4	*	107.7	*	*	*	*	*	107.5	107.7	*	
2	*	*		*	*	*	*	*	*	*	*	*	*			*	*	*							*	*			
3																													
4	↓	↓		↓	↓	↓	↓	↓	↓	↓	↓	↓	↓			↓	↓	↓		↓					↓	↓			
5	107.6	107.8		107.8	107.7	107.7	107.7	107.8	107.5	107.5	107.7	107.8	107.8			107.8	108.0	107.3		107.8					107.6	107.6			
6	109.8	*		*	109.8	109.8	109.8	109.9	109.6	109.6	109.8	109.8	109.8			109.8	109.9	109.5		109.8					109.5	109.7			
7	108.9	108.6		108.6	108.5	108.5	108.6	108.3	108.5	108.5	108.4	108.6				108.4	108.8	108.1		108.5					108.1	108.3			
8	*	*		*	*	*	*	*	*	*	*	*	*			*	*	*		*					*	*			
9																													
10																													
11																													
12																													
13	↓			↓	↓	↓		↓	↓	↓	↓	↓	↓			↓	↓	↓		↓					↓				
14	109.7			109.9	109.7	109.7		109.8	109.5	109.5	109.4	109.5	109.5			109.6	109.8	109.6		109.7					109.2				
15	*	↓		*	*	*		*	*	*	*	*	*			*	*	*		*					*				
16	107.8	107.9	↓	107.8	107.8	107.8	↓	107.9	107.8	107.9	107.9	107.7	107.8	↓	↓	107.8	107.9	107.7	↓	107.6	↓	↓	↓	↓	↓	↓	↓	↓	

* RECORDER READING OFF SCALE

SUBJECT DL-S-225 Section I CHART NO. 3

D.L.

COMPANY

Reactivity Lifetime

P.S.

DEPARTMENT

S.A.P.S.

DIVISION

CONDUCTED BY Test Group

CHECKED BY

DATE 10-11-58 to 10-20-58

TABLE X

		BLANKET FLOW																										
Date	10-11-58	10-12-58		10-12	10-13	10-13	10-13	10-14	10-14	10-14	10-15	10-15	10-15	10-16	10-16	10-16	10-17	10-17	10-17	10-18	10-18	10-18	10-19	10-19	10-19	10-20		
Time	0700	1500	2300	0700	1500	2300	0700	1500	2300	0700	1500	2300	0700	1500	2300	0700	1500	2300	0700	1500	2300	0700	1500	2300	0700	1500		
Point	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26		
1	95.5	95.2	95.4	95.4	95.4	95.5	95.4	95.5	95.2	95.5	95.5	95.3	95.3	95.3	95.3	95.3	95.2	95.3	95.2	95.2	95.6	95.5	95.5	95.7	95.5	96.0	95.7	
2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	
3	91.8	91.7	92.5	91.8	91.6	92.0	91.5	91.6	91.8	91.5	91.5	91.8	91.5	91.6	91.6	91.4	91.4	91.6	91.9	91.7	91.9	91.9	92.0	92.1	91.8	91.9	92.2	
4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
5	91.2	90.8	91.0	91.2	90.9	91.1	91.0	91.2	90.9	90.6	90.9	90.6	90.6	90.7	90.7	90.5	90.4	90.6	90.5	90.7	90.6	90.9	91.1	91.5	91.0	90.6	91.2	91.4
6	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	
7	94.8	95.0	95.0	95.2	95.0	95.0	94.6	94.7	95.2	90.2	94.9	94.9	94.8	94.9	94.7	94.7	94.7	94.7	94.5	95.0	95.2	94.9	95.0	95.0	95.0	95.0	95.3	
8	100.8	99.9	100.5	100.3	100.2	100.7	100.2	100.0	100.3	100.2	99.9	99.8	100.0	100.0	99.8	100.0	99.8	100.0	99.9	100.1	100.1	100.9	100.4	100.4	100.0	99.9	100.9	100.1
9	102.4	101.8	102.0	102.4	101.9	102.0	102.0	102.0	102.0	102.2	101.9	101.9	101.8	101.7	101.7	102.0	101.9	101.9	101.9	101.8	101.9	102.2	102.4	102.0	102.0	102.2	102.5	
10	99.0	98.7	98.7	99.0	98.9	98.7	98.9	98.5	98.8	98.5	98.3	98.7	98.6	98.7	98.5	98.5	98.6	98.4	98.8	98.7	98.6	98.9	98.8	98.8	98.8	98.8	99.0	
11	100.6	100.3	100.4	100.8	100.2	100.5	100.5	100.3	100.6	100.3	100.2	100.2	100.1	100.0	100.3	100.3	99.8	100.5	100.2	100.3	100.6	100.2	100.4	101.1	100.7	100.2	100.8	101.0
12	101.7	101.2	101.5	101.5	101.2	101.5	101.0	101.3	101.3	100.1	100.9	101.1	101.0	101.0	101.0	101.3	101.7	101.2	100.7	101.2	101.1	101.3	101.6	101.6	101.5	101.0	101.5	101.3
13	100.2	99.8	99.8	100.1	99.8	99.9	99.9	100.1	100.1	99.9	99.5	99.6	99.2	99.5	99.8	99.7	99.5	99.4	99.5	99.6	99.8	99.8	100.1	100.2	100.1	99.8	100.0	100.4
14	101.0	100.4	100.5	100.6	100.3	100.5	100.4	100.4	100.1	100.1	100.0	100.2	99.9	99.9	100.3	100.0	99.8	100.1	99.9	100.2	100.1	100.0	100.6	100.8	100.5	100.2	100.6	101.0
15	100.0	100.1	99.8	99.6	100.1	100.0	100.2	99.7	99.7	100.0	99.6	99.6	99.7	99.8	99.8	99.9	99.4	99.6	99.5	99.9	99.8	100.0	99.7	99.9	100.0	99.9	100.0	100.2
16	100.0	99.9	100.0	99.7	100.1	100.0	100.1	99.9	99.7	100.0	99.7	99.7	99.7	99.5	99.8	100.0	99.6	99.8	99.7	99.8	99.8	100.0	99.9	99.9	100.0	99.9	100.0	100.4
17	102.3	102.2	102.0	102.0	102.1	102.4	102.1	102.0	101.9	102.1	101.6	101.8	101.7	101.5	102.0	102.0	101.5	102.0	101.6	101.9	101.9	101.8	102.4	102.5	102.2	102.0	102.5	
18	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	
19	96.2	96.2	96.2	96.2	96.0	96.1	96.2	96.2	96.1	96.1	95.7	96.1	95.9	95.9	96.2	95.7	96.0	95.9	96.1	96.1	96.2	96.1	96.4	96.4	96.1	96.3	96.5	
20	94.2	94.0	94.0	94.1	94.2	94.1	94.3	94.3	94.1	94.1	94.1	94.0	94.0	94.1	94.0	94.0	94.0	94.1	94.0	94.0	94.2	94.2	94.5	94.5	94.2	94.5	94.5	
21	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	
22	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	
23	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	
24	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	

SUBJECT DL-S-225 Section I SHEET NO. 3a

DL

PS

SAPS

Reactivity Lifetime

COMPANY

DEPARTMENT

DIVISION

EMPLOYED BY Test Group

CHECKED BY

DATE 10-11-58 to 10-20-58

TABLE V

SEED FLOW

Date	10-11-58			10-12-58			10-13-58			10-14-58			10-15-58			10-16-58			10-17			10-17			10-18-58			10-19			10-20		
Time	0700	1500	2300	0700	1500	2300	0700	1500	2300	0700	1500	2300	0700	1500	2300	0700	1500	2300	0700	1500	2300	0700	1500	2300	0700	1500	2300	0700	1500	2300			
Point																																	
1	*	107.6	107.6	107.6	108.0	107.7	108.2	107.5	107.8	107.7	107.5	107.5	107.7	107.5	107.4	*	*	*	*	107.8	107.8	108.0	108.0	107.9	108.1	107.4	107.8	109.3					
2	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*				
3																																	
4																																	
5		107.7	107.7	107.7	107.8	107.7	108.2	107.7	107.6	107.7	107.6	107.6	107.7	107.6	107.6					107.8	107.8	107.8	107.7	107.9	107.8	107.6	107.7	107.8					
6	*	*	*	*	*	*	*	*	*	*	109.8	109.8	109.9	109.5	109.7					*	109.8	*	*	*	*	*	*	*	*				
7		108.5	108.5	108.7	108.5	108.7		108.3	108.4	108.0	108.5	108.5	108.3	108.3						108.7	108.3	108.6	108.5	108.7	108.6	108.6	108.6	108.6	108.9				
8	*	*	*	*	*	*		*	*	*	*	*	*	*	*					*	*	*	*	*	*	*	*	*	*				
9																																	
10																																	
11																																	
12																																	
13																																	
14		109.7	109.7		109.8	109.8	109.6	109.5	109.4	109.7	109.2	109.2	109.4	109.2	109.7					109.9	109.6	109.5	109.9	109.8	109.7	109.8	109.8	109.8					
15	*	*		*	*	*	*	*	*	*	*	*	*	*	*					*	*	*	*	*	*	*	*	*	*				
16		108.9	108.9	107.9	107.8	107.9	107.9	107.7	107.7	107.7	107.7	107.9	107.6	107.5	107.6																		

* Recorder off scale.

Duquesne Light Company
 POWER STATIONS DEPARTMENT
 SAPS
 SUBJECT: DL-5-225 SET I
 REACTIVITY LIFETIME
 DIVISION: TEST CREW
 CHECKED BY: DATE: 10-20 to 10-29

TABLE V

	BLANKET												FLOW															
DATE	10-20	10-20	10-21	10-21	10-21	10-22	10-22	10-22	10-23	10-23	10-23	10-23	10-24	10-24	10-24	10-25	10-25	10-25	10-26	10-26	10-26	10-27	10-27	10-27	10-28	10-28	10-29	10-29
TIME	1500	2300	0700	1500	2300	0700	1500	2300	0700	1500	2300	0700	1500	2300	0700	1500	2300	0700	1500	2300	0700	1500	2300	0700	1500	2300	0700	1500
POINT																												
1	95.3	95.5	95.5	95.5	95.5	95.5	95.5	95.4	95.5	95.2	95.3	95.9	95.6	95.4	95.5	95.7	95.5	95.6	95.7	95.8	95.6	95.6	95.8	95.7	96.0	95.7	95.8	95.5
2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.3	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2
3	91.9	92.0	92.0	91.7	91.8	92.0	92.0	92.2	92.1	91.9	92.1	91.9	92.1	92.2	92.1	92.3	92.3	92.3	92.4	92.3	92.3	92.3	92.3	92.4	92.3	92.4	92.3	92.3
4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
5	91.1	91.0	91.2	90.7	91.0	91.2	90.7	90.6	90.8	90.6	90.6	91.0	90.7	90.5	90.9	90.6	90.6	90.8	91.0	91.1	91.0	91.3	91.4	91.2	91.1	91.2	91.1	90.6
6	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2
7	99.8	95.0	95.3	95.2	95.1	95.0	95.1	94.8	94.7	94.7	94.7	94.7	94.7	95.2	95.0	94.9	94.8	95.0	95.0	95.0	95.2	95.3	95.3	95.2	95.2	95.3	94.8	94.9
8	100.5	100.0	100.5	99.7	100.2	100.2	100.1	99.6	100.2	99.7	100.0	100.1	100.2	100.5	100.1	100.3	100.5	100.0	100.5	100.7	100.2	100.3	100.5	100.3	100.2	100.3	100.5	100.2
9	102.3	102.2	102.1	102.1	102.2	101.9	101.9	102.1	102.0	101.5	101.7	101.9	102.0	102.0	102.0	101.6	102.1	102.5	102.2	102.2	102.0	102.1	102.6	102.6	102.2	102.0	102.2	102.0
10	98.7	99.1	98.8	98.4	98.8	98.6	98.7	98.8	98.7	98.6	98.8	99.0	98.3	98.5	98.5	98.5	99.0	98.6	98.7	99.1	98.7	98.5	98.9	98.5	98.7	98.9	98.8	98.7
11	100.7	100.5	100.6	100.5	100.6	100.5	100.1	100.2	100.5	100.1	100.2	100.4	100.3	100.2	100.7	100.3	100.4	100.6	100.8	100.6	100.6	101.0	100.5	100.8	100.8	100.5	100.5	100.5
12	101.5	101.5	101.4	101.1	101.3	101.5	101.0	101.0	101.0	100.8	101.3	101.2	101.1	101.0	101.2	101.2	101.4	101.2	101.6	101.7	101.2	101.2	101.7	101.5	101.5	101.8	101.5	101.1
13	100.1	100.0	99.9	99.7	99.9	99.7	99.7	99.9	99.7	99.7	99.9	99.9	99.7	99.8	99.8	99.9	99.9	100.1	100.0	100.1	99.9	100.0	100.2	100.1	100.0	100.2	99.1	99.8
14	100.6	100.8	100.5	100.5	100.5	100.2	100.2	100.2	100.4	99.9	100.4	100.5	100.2	100.5	100.5	100.2	100.7	100.6	100.7	100.5	100.5	100.6	100.9	100.5	100.5	100.8	100.5	100.5
15	99.7	99.9	99.9	99.9	99.7	99.9	100.0	99.9	99.9	99.6	99.6	99.6	99.9	99.3	99.8	99.8	99.7	100.0	99.8	99.5	99.6	100.0	100.0	99.8	99.9	100.2	99.5	99.8
16	100.3	100.2	100.0	99.9	99.9	99.9	99.8	99.9	99.9	99.6	99.7	100.0	99.6	99.6	99.8	99.9	100.0	99.9	99.9	99.9	100.2	100.2	100.5	99.9	99.8	100.2	99.8	99.9
17	102.4	102.4	102.1	102.2	102.2	101.9	101.8	101.9	101.9	101.6	101.9	102.9	101.9	102.2	101.9	101.6	101.9	102.3	102.0	102.2	102.0	102.3	102.5	102.3	102.2	102.5	102.0	101.8
18	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2
19	96.0	96.3	96.1	96.1	96.2	96.2	96.1	96.2	96.0	95.9	96.1	101.2	96.2	96.2	96.4	96.2	96.4	96.4	96.3	96.3	96.2	96.5	96.4	96.4	96.2	96.3	96.4	96.2
20	99.3	94.4	94.3	94.2	94.4	94.3	94.1	94.2	94.2	94.1	94.1	94.4	94.2	94.3	94.5	94.5	94.5	94.6	94.4	94.6	94.5	94.5	94.5	94.5	94.5	94.7	94.4	94.5
21	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2
22	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2
23	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2
24	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2

SUBJECT DL-S-225 SHEET NO. 4a

DL COMPANY SECTION I

PS DEPARTMENT REACTIVITY LIFETIME

SAPS DIVISION TEST GROUP CHECKED BY DATE 10-20-58 To 10/27/58

TABLE I A

		SEED FLOW																											
DATE	10-20-58	10-20	10-21	10-21	10-21	10-22	10-22	10-22	10-22	10-22	10-22	10-23	10-23	10-23	10-23	10-24	10-24	10-25	10-25	10-25	10-25	10-26	10-26	10-26	10-27	10-27	10-27	10-28	10-28
TIME	1500	2300	0700	1500	2300	0700	1500	2300	0700	1500	2300	0700	1500	2300	0700	1500	2300	0700	1500	2300	0700	1500	2300	0700	1500	2300	0700	1500	2300
POINT																													
1	107.8	107.8	108.0	107.7	107.9	107.9	107.8	107.7	107.6	107.6	107.8	107.6	107.6	107.8	108.2	107.6	108.0	108.0	108.1	108.1	107.8	108.0	108.1	108.0	108.0	108.0	108.1	108.2	107.9
2	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3	*																												
4																													
5	107.8	107.8	107.7	107.7	107.8	107.8	107.8	107.7	107.8	107.6	107.5	107.8	107.6	107.8	108.0	107.8	107.8	108.0	107.8	108.0	108.0	108.0	107.9	107.9	108.0	107.9	107.9	107.9	107.7
6	*	109.9	*	109.8	*	*	109.8	109.8	109.8	109.8	109.8	109.8	109.8	109.8	*	*	109.7	*	*	*	110.0	*	*	*	*	*	*	*	*
7	108.2	108.1	108.5	108.4	108.5	108.5	108.4	108.4	108.3	108.3	108.4	108.3	108.3	108.4	108.7	108.4	108.4	108.6	108.5	108.6	108.7	108.6	108.9	108.6	108.6	108.6	108.8	108.4	
8	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
9																													
10																													
11																													
12																													
13																													
14	109.6	109.7	109.7	109.7	109.7	109.7	109.6	109.6	109.7	109.6	109.4	109.7	109.6	109.4	109.8	109.5	109.7	109.8	109.6		109.8								
15	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
16	108.0	107.9	107.9	108.0	108.0	107.8	108.0	107.9	107.9	108.0	107.9	107.9	108.0	107.9	108.0	107.9	107.9	108.0	108.0	108.0	108.1	108.2	108.1	108.0	108.2	108.1	108.1	108.0	

* Recorder OFF Scale

DLB

BLS-220

Section 2

10

Locality: Libitima

P2

Shynggert

Page 55 to 56-57

Table 27

Blackst Exit and Inlet Temperatures

Date 9-22-58

Time 1800

Time	1800	1900	2000	2100	2200	2300	2400	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800
34	410.5	412.9	414.3	412.5	415.1	416.1	414.5	416.2	418.1	417.2	412.0	416.2	418.7	418.8	418.3	417.0	418.0	418.0	417.0	417.1	418.0	417.6	418.0	418.5	418.0
35	502.5	502.3	505.1	506.4	511.2	506.1	508.0	516.3	506.6	507.0	506.2	505.0	505.2	505.0	505.8	507.0	507.2	507.0	506.7	507.0	506.0	506.8	507.0	507.5	507.0
36	472.5	461.5	461.1	462.9	465.6	465.0	466.6	469.0	469.0	468.5	470.0	470.0	468.8	468.0	468.8	469.5	469.2	468.5	468.0	467.5	468.0	466.0	466.0	466.5	466.5
37	477.0	477.2	477.7	478.0	478.0	478.0	478.7	479.0	479.0	479.2	479.2	479.2	479.2	479.2	479.2	479.2	479.2	479.2	479.2	479.2	479.2	479.2	479.2	479.2	479.2
38	512.0	512.1	512.0	512.0	512.0	512.0	512.0	512.0	512.0	512.0	512.0	512.0	512.0	512.0	512.0	512.0	512.0	512.0	512.0	512.0	512.0	512.0	512.0	512.0	512.0

Seed Exit Water Temperature

Date 9-22-58

Time 1800

Time	1800	1820	1840	1860	1880	1900	1920	1940	1960	1980	2000	2020	2040	2060	2080	2100	2120	2140	2160	2180	2200	2220	2240	2260	2280
1	507.0	508.2	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0
2	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0
3	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0
4	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0
5	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0
6	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0
7	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0
8	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0
9	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0
10	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0
11	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0
12	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0
13	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0
14	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0
15	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0
16	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0
17	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0
18	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0
19	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0
20	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0
21	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0
22	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0
23	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0
24	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0

Shipping port

Test Group

9-23-58 to 9-27-58

Table I

Blanket Exit and Inlet Temperatures

[illegible]

Seed Exit Water Temperature

[illegible]

DLS-225 SECTION I

3

D.L.C.
P.S.
SHIPPING PORT

REACTIVITY LIFETIME

TEST GROUP

9-28-58 TO 10-1-58

Table II

BLANKET EXIT AND INLET TEMPERATURES

DATE	9-28-58	9-29-58	9-30-58	10-1-58																									
TIME	0300	0700	1100	1500	1900	2300	0300	0700	1100	1500	1900	2300	2400	0100	0200	0300	0400	0500	0600	0700									
Pr.																													
1	506.0	505.1	506.0	505.4	505.2	504.9	505.0	505.8	506.1	505.3	504.1	504.9	506.0	506.2	505.0	506.0	505.5	505.5	506.6	506.0	506.0	506.0	505.5	505.5	505.5	505.5	505.5	505.5	505.5
2	508.0	506.4	507.5	506.4	506.8	505.9	507.0	507.4	507.9	507.2	505.1	506.8	507.5	507.8	507.0	507.5	507.0	507.0	507.5	507.5	507.5	507.5	507.5	507.5	507.5	507.5	507.5	507.5	506.9
3	507.0	506.2	507.0	506.2	506.5	506.2	506.5	507.0	507.2	506.2	506.1	506.0	507.5	507.3	506.2	506.9	506.4	507.0	506.5	506.9	507.0	507.0	506.5	506.5	506.5	506.5	506.5	506.5	506.3
4	508.0	507.0	507.5	507.1	507.8	507.0	507.5	507.8	508.0	507.5	506.9	507.5	508.5	508.3	506.9	507.8	507.2	508.0	507.8	508.0	508.0	508.0	508.2	507.5	507.5	507.7	507.0	507.0	506.3
5	501.0	499.5	500.0	499.7	500.2	499.8	499.8	500.0	500.2	499.9	499.1	499.5	500.5	500.8	499.9	500.0	500.0	500.0	500.0	500.0	500.0	500.0	500.5	500.0	500.0	499.5	499.0	499.0	499.0
6	509.5	508.1	509.0	508.8	509.1	508.8	509.0	509.6	509.6	508.8	508.1	508.6	510.0	510.0	508.0	509.2	509.1	509.1	509.8	509.8	510.0	509.8	509.0	509.0	509.0	508.9	508.5	507.9	507.9
7	514.0	511.9	513.0	512.3	512.5	512.2	512.5	512.9	513.1	512.3	511.1	512.2	513.5	513.3	512.0	512.9	512.2	512.8	513.5	513.5	513.5	513.5	513.0	513.0	513.0	512.8	512.5	512.2	511.8
8	509.5	507.5	508.5	507.4	507.9	507.2	508.0	508.0	508.3	507.8	506.9	507.6	509.0	509.6	507.2	508.0	508.0	508.0	509.2	509.0	509.0	508.9	508.0	507.8	507.8	507.3	507.3	507.0	507.0
9	524.0	522.9	523.5	523.1	523.5	523.2	523.5	523.9	524.0	523.2	522.2	523.0	524.5	524.2	523.0	523.9	524.0	523.3	523.8	524.0	524.0	524.0	524.0	524.0	524.0	523.5	523.0	523.0	522.6
10	513.5	511.9	513.0	511.8	512.2	512.0	512.0	512.3	512.7	511.9	510.3	511.7	513.0	512.9	511.5	512.1	512.0	512.4	513.0	513.0	513.0	513.0	513.0	512.0	512.0	512.0	511.5	511.2	511.2
11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	504.5	503.7	505.0	504.1	504.3	504.0	504.5	506.0	505.2	504.3	503.4	503.8	505.0	506.1	504.2	506.0	504.1	505.0	504.4	504.8	505.0	505.0	505.5	505.5	505.7	505.5	505.5	505.0	504.0
14	495.0	494.0	495.5	494.7	495.0	494.6	499.5	497.0	495.8	495.0	493.2	494.5	495.5	497.4	495.0	497.5	494.8	496.5	494.6	495.0	497.0	495.3	496.5	496.5	496.7	496.5	496.5	496.0	495.0
15	500.0	498.6	500.0	499.8	499.9	499.2	499.5	501.3	500.3	499.6	498.4	499.0	500.3	501.5	499.9	501.5	499.5	500.5	499.0	499.8	501.0	500.0	500.5	501.0	501.0	500.5	499.0	499.0	499.0
16	509.0	507.9	509.0	508.3	508.7	508.5	508.6	509.6	509.3	508.6	507.5	508.1	509.5	509.7	508.1	509.2	508.5	509.2	508.7	509.0	509.5	509.4	509.0	509.0	509.0	508.7	508.7	508.4	507.9
17	512.0	511.0	512.5	511.7	512.0	511.2	511.8	513.6	512.8	511.9	511.0	511.0	512.7	513.9	511.5	513.7	512.0	512.8	511.5	512.0	513.0	512.5	513.0	513.0	513.0	513.3	513.0	511.5	511.5
18	505.0	504.0	504.5	504.3	504.3	504.2	504.0	504.7	504.9	504.5	503.1	504.0	505.0	504.8	504.0	504.9	504.8	504.5	504.9	505.0	505.0	505.0	504.5	504.5	504.5	504.0	503.9	503.9	503.9
19	444.5	444.2	444.0	444.3	444.0	444.0	443.5	443.8	443.8	444.0	443.5	444.0	444.2	444.4	444.1	444.8	445.1	445.1	444.0	444.0	444.5	444.5	444.5	444.5	444.5	444.5	444.0	443.8	443.8
20	507.5	506.5	507.0	507.1	507.2	506.9	507.3	507.3	507.0	507.0	505.1	508.7	507.9	507.2	506.5	507.9	507.2	507.0	507.1	507.4	507.5	507.5	506.8	507.0	507.0	507.0	507.0	506.5	506.5
21	502.0	500.2	501.5	501.0	501.0	500.5	500.0	501.0	501.3	500.9	499.5	500.5	501.5	501.3	500.2	501.8	501.0	501.0	501.8	501.5	501.5	501.5	501.0	501.0	501.0	500.5	500.2	500.2	500.2
22	502.5	501.5	503.0	502.4	502.5	501.9	501.8	502.5	503.0	502.3	500.5	501.8	503.5	503.0	501.8	503.2	502.5	502.5	502.1	502.8	502.5	502.5	502.0	502.0	502.0	501.7	501.5	501.5	501.5
23	493.5	492.9	493.0	493.0	493.0	493.1	492.5	492.8	493.4	492.8	492.2	493.2	494.5	494.2	493.0	494.1	493.9	493.2	493.5	493.5	493.5	494.0	493.0	493.5	493.5	493.0	492.9	492.9	492.9
24	507.5	505.9	507.0	506.4	506.5	506.1	506.3	507.0	507.3	506.6	505.0	505.5	507.3	507.0	506.0	507.5	506.2	506.6	506.3	506.8	506.5	507.0	506.3	506.5	506.5	506.5	506.5	506.5	505.7
25	505.5	504.7	505.5	504.7	505.0	504.8	504.0	504.2	504.2	505.0	503.9	504.5	505.8	505.7	504.9	505.9	505.0	505.0	505.1	505.0	505.5	505.5	505.0	505.0	505.0	505.0	505.0	504.3	504.3
26	509.0	508.8	508.5	508.2	508.2	508.0	508.0	509.0	509.2	508.2	506.8	507.8	509.1	508.6	506.2	509.0	508.0	508.0	508.0	509.0	508.5	508.0	508.0	508.8	508.8	508.8	508.8	508.1	508.1
27	432.5	432.5	432.5	432.5	432.0	431.9	432.0	432.2	432.0	432.3	431.0	431.9	432.0	432.3	432.0	432.9	433.5	433.5	432.0	432.0	432.0	432.0	432.3	432.3	432.5	432.3	432.3	432.0	432.0
28	417.0	417.0	417.5	417.5	417.0	416.5	417.0	417.3	417.1	417.0	415.6	416.0	417.2	417.6	417.0	417.9	416.9	417.5	417.2	417.5	417.5	417.5	417.0	417.0	417.0	417.0	417.0	416.3	416.3
29	416.0	416.0	417.0	416.0	416.0	415.9	416.0	416.1	416.6	416.1	415.0	416.4	417.5	416.5	416.1	417.1	416.1	416.7	416.5	416.8	417.0	417.0	416.5	416.5	416.5	416.5	416.5	415.9	415.9
30	415.0	416.2	415.0	414.5	414.8	414.1	414.5	414.8	415.3	414.6	413.5	414.5	415.5	415.2	414.0	415.5	414.5	415.0	415.0	415.0	415.0	415.2	414.5	414.5	414.5	414.5	414.3	413.8	413.8
31	416.5	416.0	417.0	416.0	416.0	415.8	416.0	416.3	416.9	416.9	415.9	415.9	416.7	416.3	415.9	416.7	416.0	416.0	416.0	416.0	416.0	416.5	416.5	416.0	416.0	416.0	415.8	415.5	415.5
32	417.5	416.2	416.0	416.5	416.9	416.2	416.5	416.8	417.6	416.9	415.6	416.5	417.5	417.2	416.5	417.5	416.9	416.9	416.8	417.0	417.0	417.0	416.5	416.5	416.5	416.5	416.5	416.0	416.0
33	417.0	415.9	416.1	415.8	416.2	415.8	415.5	416.6	416.8	415.9	414.5	415.9	416.5	416.7	416.0	416.5	416.1	416.8	416.1	416.1	416.1	416.5	416.0	416.0	416.0	415.8	415.8	415.8	415.8

10E

D.L. Co.
P.S.
SHIPPINGPORT

REACTIVITY LIFETIME

TEST GRMP

9-28-58 TO 10-1-58

Table II

BLANKET EXIT AND INLET TEMPERATURES

DATE	9-28-58	9-29-58	9-30-58	10-1-58
TIME	0300 0700 1100 1500 1900 2300 0300 0700 1100 1500 1900 2300 0300 0700 0900 1100 1500 1900 2300 2400 0100 0200 0300 0400 0500 0600 0700			
34	488.0 486.0 486.0 486.5 486.5 485.5 486.5 488.0 489.1	486.4 485.3 486.0 484.5 487.8 487.5 486.1 488.0 489.0 487.8 487.9 487.5 485.5 487.5 487.0 487.0 485.9		
35	509.0 508.1 509.5 509.7 509.0 508.0 508.5 508.0 509.9	509.0 507.5 508.0 509.5 510.0 508.8 509.9 509.0 509.0 508.2 508.8 509.5 509.5 509.3 509.5 509.9 509.5 508.9		
36	467.5 464.5 466.0 465.1 460.5 461.1 461.5 462.0 462.6	462.0 461.9 462.2 463.5 462.3 461.5 462.9 462.1 464.0 471.7 474.0 474.5 474.5 473.0 473.0 472.5 473.2 473.1		
37	480.5 479.0 480.0 479.4 479.9 479.2 479.5 479.9 479.9	480.0 479.0 479.8 480.5 480.2 479.1 480.1 480.0 480.5 479.9 479.9 480.5 480.0 480.0 480.0 479.5 480.0 478.9		
38	520.5 519.0 520.0 519.3 520.0 520.0 520.0 520.5 520.2	519.5 518.5 520.0 521.0 520.4 518.7 519.8 519.9 520.9 520.1 520.8 520.5 520.5 520.5 520.0 520.0 519.5 518.9		

SEED EXIT WATER TEMPERATURES

DATE	9-28-58	9-29-58	9-30-58	10-1-58
TIME	0300 0700 1100 1500 1900 2300 0300 0700 1100 1500 1900 2300 0300 0700 0900 1100 1500 1900 2300 0000 0100 0200 0300 0400 0500 0600 0700			
1	510.9	511.0	510.6 511.0 511.0 510.5 511.0 510.6 510.0 510.1	511.5 511.5 510.4 511.0 511.0 510.5 510.2 511.0 511.0 511.0 511.0 511.0 511.0 511.0 510.5
2	502.0	501.5	502.0 501.5 501.5 501.5 501.5 501.3 501.5 501.5	502.0 502.0 501.2 502.0 501.5 502.0 501.8 501.8 502.5 502.2 502.0 502.5 502.0 501.7 501.5
3	512.0	511.5	511.6 512.0 512.0 512.5 512.0 511.3 511.2 511.2	512.3 512.0 511.3 512.2 512.0 512.8 512.5 512.5 513.0 512.8 513.0 513.0 513.0 512.5 512.0
4	457.5	456.0	456.2 456.2 457.0 456.0 456.5 456.4 456.8	457.0 457.5 457.0 456.6 457.4 457.5 458.2 457.2 458.0 458.0 457.8 457.5 458.0 457.5 457.3 457.0
5	494.2	494.0	493.7 493.6 493.1 493.5 493.5 493.2 493.2	492.9 494.0 493.5 492.0 493.8 493.5 493.8 494.2 494.0 494.0 494.0 494.0 494.0 493.8 493.5 493.0
6	515.5	515.0	515.0 515.0 515.0 516.0 516.0 515.0 514.8 514.8	515.9 515.5 514.8 515.4 515.0 515.5 515.5 515.5 516.0 515.9 516.0 516.0 516.0 515.5 515.0
7	482.0	482.5	482.1 481.6 482.0 481.5 482.0 481.3 482.6 481.7	483.2 482.0 482.0 482.0 483.0 482.1 482.6 483.0 482.5 483.0 483.0 483.0 483.0 482.8 482.5 482.5
8	493.0	493.0	493.5 492.5 492.5 493.5 493.5 493.9 493.9	493.0 493.9 493.0 493.6 493.0 493.0 493.8 493.9 493.5 494.0 493.5 494.0 494.0 493.8 494.0 493.5
9	499.0	499.0	499.0 499.5 499.5 499.5 499.5 499.9 499.9	499.1 499.5 499.6 499.0 499.0 499.0 499.8 499.0 499.0 499.5 499.5 499.5 499.5 499.1 499.9 499.0
10	507.0	507.5	506.8 506.9 506.8 507.5 507.5 507.3 506.5 506.3	507.5 508.0 507.0 508.0 507.5 507.0 507.0 507.0 507.0 507.5 507.5 508.0 508.2 508.0 508.0 507.5
11	492.3	493.0	492.9 492.5 492.0 492.0 493.5 493.0 492.8 492.1	493.5 493.0 492.9 493.7 493.5 493.0 493.0 493.4 493.0 492.5 493.5 493.0 492.0 492.8 492.5 492.5
12	461.0	457.5	459.9 459.0 458.5 459.0 460.0 458.8 458.8	459.2 462.0 460.5 461.6 462.0 462.5 462.0 462.0 462.0 462.0 461.0 462.0 461.5 461.5 461.5 461.5
13	487.2	489.0	488.0 488.0 488.2 489.0 489.0 487.8 487.9	482.8 482.0 482.5 — 489.9 489.0 489.0 489.8 489.0 489.0 489.0 489.0 489.0 489.0 489.0 487.5
14	507.9	507.5	508.0 508.0 508.0 507.5 507.5 507.3 507.5 507.5	508.0 507.5 — 507.6 507.5 508.8 508.5 508.5 508.5 508.0 508.0 508.0 508.0 507.5 507.9 507.0
15	495.0	494.0	494.6 495.0 499.5 494.5 494.0 493.9 493.8	494.9 494.5 494.0 — 494.6 499.5 495.6 495.2 495.5 495.5 495.0 495.0 495.0 499.5 499.5 499.0
16	519.2	519.0	518.8 519.0 518.6 518.5 514.5 518.2 518.2	518.2 519.8 519.0 — 518.9 518.5 519.5 519.5 519.5 520.0 519.5 519.5 519.5 519.0 519.0 518.0
17	516.0	517.0	516.0 516.0 516.5 516.0 516.5 515.7 515.0 514.5	516.0 516.0 — 516.7 516.0 515.8 515.5 515.8 516.5 516.5 516.5 516.5 516.5 516.5 516.5
18	509.0	510.0	509.5 509.2 509.0 509.5 510.0 509.9 508.8	508.2 509.9 510.0 — 510.2 509.0 509.8 509.9 509.5 510.0 510.0 510.0 510.0 510.0 510.0 509.5
19	512.0	512.5	512.0 512.0 512.0 512.5 512.5 512.1 511.5 511.0	512.0 512.5 — 512.4 512.0 512.0 511.9 511.9 512.5 512.0 512.5 512.5 512.5 512.5 512.5
20	508.1	508.5	508.0 508.0 508.0 508.5 508.2 507.3 507.1	508.4 508.5 — 508.9 508.0 508.5 508.2 508.0 509.0 508.5 508.8 509.6 509.0 508.9 508.0
21	513.0	512.5	512.1 512.0 512.0 512.5 512.5 512.1 511.5 511.3	512.2 512.5 — 512.8 512.5 512.3 513.0 512.5 513.0 513.0 513.0 513.0 513.0 513.0 512.0
22	516.5	517.0	516.2 516.0 516.6 516.5 516.5 516.2 515.2 515.6	516.5 517.0 — 517.0 516.0 516.1 516.3 516.0 516.5 516.5 517.0 517.0 517.0 517.0 516.5
23	511.5	511.5	510.4 510.5 510.7 511.0 — 513.0 —	509.5 511.0 511.0 — 511.0 510.5 510.1 511.2 510.7 511.0 511.0 511.0 511.5 511.2 511.3 510.5
24	514.0	513.0	513.1 513.0 513.0 513.0 513.5 513.3 512.5 512.1	513.8 514.0 — 513.7 513.0 513.2 513.0 513.0 513.5 513.5 513.5 514.0 514.0 514.0 513.5

DL-S-225 Section I
Reactivity Lifetime

4

D.L. Co.

P.S.

SAPS

Test Group

10-1-58 To 10-3-58

TABLE V

Blanket Exit and Inlet Temperatures

Date 10-1-58

10/2/58

10/3/58

Time	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2230	2300	2330	0300	0700	1100	1500	1900	2300	0300	0700	1100	
Pt.																												
1	506.0	505.4	505.2	506.0	505.1	506.0	506.0	506.0	504.5	506.0	505.0	504.8	504.9	504.5	504.9	504.9	505.0	504.5	505.0	505.5	505.8	506.2	505.5	505.8	505.1	506.5	506.0	505.5
2	507.4	507.5	507.8	507.5	507.0	507.9	507.5	507.8	506.0	506.3	506.8	506.9	507.0	506.2	506.8	506.8	506.8	506.5	504.0	507.3	507.5	507.8	507.2	507.8	507.1	508.5	508.0	507.5
3	506.3	506.4	506.4	507.0	506.5	507.0	507.0	507.0	506.0	506.1	506.3	506.0	506.5	506.2	506.2	506.2	506.2	505.8	506.9	506.3	506.3	507.0	506.5	506.9	506.5	507.1	506.8	506.8
4	507.5	507.2	507.0	507.4	507.2	507.3	508.2	508.0	507.0	507.2	507.8	507.2	507.5	507.2	507.3	507.5	507.3	507.2	507.8	507.5	507.5	508.1	507.6	507.9	507.2	508.3	507.7	507.9
5	500.0	499.0	500.0	500.0	500.0	500.5	500.4	500.5	498.9	499.8	500.0	499.5	500.0	499.5	499.9	499.5	499.6	499.1	500.0	499.3	499.5	500.1	500.0	500.0	499.5	500.6	500.6	499.9
6	507.0	508.9	507.0	507.0	508.8	509.8	509.7	509.0	507.8	508.8	509.6	508.5	508.9	508.5	508.6	509.0	507.3	507.0	507.8	507.6	507.8	509.0	508.2	509.1	509.0	510.0	509.5	508.9
7	512.8	512.3	512.5	512.5	512.2	508.4	512.4	513.0	511.9	512.2	512.2	512.3	512.4	512.0	512.5	512.2	511.5	512.0	512.5	512.2	512.3	513.0	512.6	508.3	512.8	513.7	513.0	512.9
8	505.0	508.0	507.9	508.0	507.8	508.6	507.8	508.1	507.2	507.6	508.0	507.7	507.8	507.3	507.6	507.5	507.5	507.5	508.0	507.7	508.0	508.8	508.7	509.5	513.0	508.8	508.2	508.9
9	523.4	523.3	523.5	523.5	523.5	524.3	523.6	524.1	523.0	523.5	524.0	523.1	523.6	523.0	523.3	523.1	523.0	523.0	523.8	523.7	523.5	524.0	523.5	524.0	523.5	524.7	524.0	524.0
10	512.2	512.1	511.5	512.0	512.0	512.6	512.2	512.5	511.5	512.0	512.2	511.8	512.1	511.8	511.7	512.0	511.5	511.5	512.2	511.9	512.0	513.0	512.8	513.1	512.5	512.7	512.5	512.5
11																												
12																												
13	504.9	504.9	504.9	504.5	504.8	505.5	504.0	505.2	505.0	505.0	505.5	503.5	504.1	503.5	504.8	505.0	505.0	505.0	504.0	505.7	505.0	505.1	504.8	504.4	504.5	507.2	505.5	505.0
14	496.0	495.0	495.6	495.2	495.0	496.0	496.3	497.0	496.5	496.8	497.0	494.5	495.0	494.5	496.0	496.5	496.2	496.8	495.2	497.1	495.8	496.5	495.3	495.5	495.3	499.5	496.2	496.0
15	500.1	500.0	500.0	500.0	500.0	500.1	498.8	501.3	500.0	500.9	500.9	498.8	499.2	498.8	500.0	500.1	500.0	500.5	499.9	501.5	500.2	500.2	499.8	499.5	499.5	502.5	500.9	500.9
16	509.0	508.8	508.9	509.0	508.9	509.8	508.8	509.5	508.2	508.9	509.0	508.0	508.6	508.0	508.5	508.5	508.5	508.9	508.8	509.1	509.0	509.0	508.5	508.8	508.6	510.3	509.5	509.0
17	513.0	512.2	512.8	512.8	512.1	513.0	511.2	513.0	512.5	512.9	513.0	511.0	511.5	511.0	512.0	512.5	512.4	512.2	512.0	513.5	513.0	513.0	511.9	512.0	511.8	514.8	513.2	512.9
18	504.9	504.9	504.8	504.6	504.3	505.0	505.0	505.0	503.8	504.0	504.9	503.9	504.5	503.9	504.0	504.0	504.0	504.0	504.2	504.5	504.5	504.9	504.5	504.5	504.2	505.0	504.9	504.5
19	443.5	444.1	444.5	444.5	444.5	443.9	444.2	444.2	449.0	443.8	443.5	443.2	443.1	443.1	443.1	443.1	443.3	443.0	442.5	442.5	442.5	443.0	443.0	442.9	443.0	443.5	443.7	443.2
20	506.9	506.5	506.8	507.5	507.5	508.1	508.0	507.8	506.5	506.9	507.0	506.0	507.1	506.5	506.8	506.5	506.9	506.8	506.5	507.0	507.0	507.2	506.9	507.1	507.0	508.0	507.5	507.5
21	501.0	500.2	501.6	501.0	501.0	502.0	500.2	501.2	500.0	500.1	500.4	500.0	500.5	500.0	500.0	500.0	500.0	500.0	500.5	500.0	500.0	501.0	501.0	501.0	501.5	500.8	501.5	501.0
22	502.3	502.0	502.0	502.5	502.1	503.0	502.1	502.0	501.8	502.0	502.5	501.8	502.1	501.5	501.2	501.6	501.5	501.8	502.0	502.0	501.8	503.0	502.0	502.0	502.1	503.3	502.9	502.5
23	494.1	493.5	494.0	493.9	493.8	494.1	494.1	494.0	493.0	493.5	493.8	493.2	493.5	493.3	493.0	492.9	493.2	493.6	493.0	494.0	494.0	494.5	494.8	494.0	493.5	494.2	493.9	494.2
24	506.5	506.5	506.2	506.4	506.1	507.9	507.0	507.0	506.9	505.5	506.0	506.5	506.0	505.2	505.5	506.0	505.5	505.2	506.3	506.7	507.0	507.0	506.0	506.0	505.8	507.7	507.2	506.9
25	505.1	505.0	505.1	505.5	505.1	505.5	504.5	505.0	504.2	504.5	504.9	505.0	504.8	504.9	504.5	504.8	504.5	504.5	504.9	505.0	505.0	505.9	505.0	505.0	504.6	506.0	505.5	505.3
26	509.0	508.5	508.2	508.8	508.7	509.1	508.9	509.0	507.5	507.7	508.9	508.2	502.9	507.4	507.5	507.8	507.8	507.5	508.0	508.8	508.8	508.8	507.6	507.6	507.7	509.3	509.0	508.9
27	432.0	432.0	432.0	432.4	432.6	431.5	434.0	433.1	431.9	431.2	431.0	431.0	430.8	431.1	431.1	431.1	431.1	431.0	430.0	430.5	430.5	430.8	430.3	430.2	430.5	431.3	431.5	431.0
28	487.1	486.9	486.8	487.0	486.5	487.0	486.5	486.8	486.2	486.2	486.4	486.8	486.8	486.5	487.0	486.9	486.8	486.7	487.0	487.3	487.3	487.1	486.9	487.3	486.6	488.0	487.5	487.0
29	486.5	486.0	486.0	486.0	486.0	486.3	486.0	486.2	485.9	485.5	486.0	485.9	486.0	485.9	486.0	486.1	485.9	485.8	486.1	486.2	486.8	486.1	486.0	486.0	485.9	487.3	486.9	486.5
30	489.9	489.5	489.2	489.6	489.0	488.0	489.3	489.5	489.0	489.0	489.3	489.2	489.5	489.0	489.5	489.5	489.2	489.2	489.5	489.5	489.5	489.5	489.5	489.5	489.5	489.5	489.5	489.5
31	486.1	486.0	486.0	486.0	486.0	486.2	486.0	486.0	485.2	485.5	485.9	485.8	486.0	485.5	485.8	485.6	485.5	485.6	486.0	486.0	486.0	486.0	486.0	485.7	487.0	486.5	486.7	486.1
32	486.4	487.0	487.0	487.3	487.1	487.2	486.9	487.0	486.3	486.3	487.0	486.9	486.7	486.5	486.9	486.9	486.7	487.1	487.1	487.1	487.1	487.1	487.1	487.1	487.1	487.1	487.1	487.1
33	486.5	486.2	486.9	486.5	486.2	486.1	486.9	486.8	485.9	485.8	485.9	486.2	486.5	485.9	485.9	486.2	486.0	486.1	485.6	486.3	486.8	487.1	486.5	486.5	486.0	487.5	487.5	486.9

SUBJECT DL-S-225 Section I SHEET NO. 4aDL COMPANY Reactivity Lifetime

P.S. DEPARTMENT

SAPS DIVISION

PREPARED BY Test Group

CHECKED BY

DATE 10-1-58 To 10-3-58

TABLE V

		Blanket Exit and Inlet Temperatures																										
Date	10-1-58																					10/2/58		10/3/58				
Time	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2130	2200	2230	2300	2330	0300	0700	1100	1500	1900	2300	0300	0700	1100
Pt.																												
34	467.3	467.2	466.9	467.5	467.9	466.9	466.0	467.8	467.1	466.1	465.6	466.2	467.0	467.1	467.6	466.2	466.2	466.0	467.5	467.0	467.0	466.9	466.5	467.0	467.0	467.5	466.0	467.0
35	509.8	509.2	509.5	509.9	509.9	509.9	509.5	509.3	508.0	508.1	508.2	507.5	508.1	507.5	508.3	508.3	508.0	508.1	508.2	509.9	509.5	509.8	508.2	508.0	508.2	510.6	510.0	509.5
36	474.5	473.5	472.0	470.0	470.0	472.9	472.5	473.0	472.2	472.2	473.0	469.5	469.6	466.2	469.4	469.3	469.5	469.5	465.5	469.9	466.8	467.7	466.5	468.0	467.2	467.9	467.2	467.9
37	460.1	460.9	460.0	460.8	460.9	460.1	460.1	460.6	477.7	477.8	480.5	477.8	460.0	477.2	480.3	480.1	480.0	477.8	479.0	479.3	479.5	480.1	479.5	479.5	480.5	479.7	479.2	479.2
38	519.9	519.8	519.8	520.0	519.8	520.1	520.1	520.9	520.0	520.0	520.5	520.0	520.9	520.2	520.5	520.0	520.0	520.0	520.0	519.8	519.1	520.5	520.0	520.0	519.5	520.6	520.0	520.1
		Seed Exit Water Temperatures																										
Date	10-1-58																											
Time	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2130	2200	2230	2300	2330	0300	0700	1100	1500	1900	2300	0300	0700	1100
Pt.																												
1	511.6	↑	↑	↑	↑	↑	511.2	511.2	510.2	510.2	511.6	510.6	510.8	510.0	510.5	510.1	510.1	510.5	510.5	510.5	510.5	510.5	511.0	510.5	512.0	510.9	511.2	
2	502.0	↑	↑	↑	↑	↑	502.2	502.3	501.0	501.2	501.6	500.5	501.8	501.1	501.0	501.1	501.3	501.5	501.5	501.5	501.5	501.9	501.2	502.5	501.6	501.9		
3	512.5	↑	↑	↑	↑	↑	514.0	513.7	512.0	512.1	512.4	510.9	512.9	511.9	512.3	512.2	512.2	512.5	512.9	512.5	512.1	511.5	512.0	511.4	513.2	512.0	512.3	
4	457.5	↑	↑	↑	↑	↑	457.5	458.2	457.0	457.0	457.0	456.5	458.1	456.9	457.5	457.5	457.1	457.5	457.5	458.0	458.0	458.2	458.2	457.1	458.0	457.9	457.7	
5	494.0	↑	↑	↑	↑	↑	494.0	494.4	493.0	493.3	493.5	493.1	493.7	493.1	493.3	493.2	493.1	493.5	493.5	493.5	493.0	494.0	494.0	494.0	493.0	494.0	493.9	
6	516.0	↑	↑	↑	↑	↑	516.2	516.9	514.8	515.8	515.8	516.1	515.5	514.5	514.9	515.0	514.6	515.0	515.0	515.5	516.0	516.1	515.4	515.4	515.0	517.0	516.0	516.1
7	483.0	↑	↑	↑	↑	↑	483.8	483.3	481.9	481.9	482.1	482.5	482.1	482.9	482.2	481.2	481.6	482.5	482.5	482.0	483.0	483.0	482.0	481.5	482.5	483.0	482.9	
8	469.0	↑	↑	↑	↑	↑	464.6	464.0	462.9	463.0	463.0	463.7	463.5	462.5	463.1	463.3	463.0	463.5	463.5	463.0	464.0	464.0	463.4	462.5	464.0	464.0	464.0	
9	494.5	↑	↑	↑	↑	↑	495.2	494.6	493.5	493.3	493.8	493.9	493.5	492.9	493.9	493.1	493.1	493.5	493.8	494.0	494.0	494.7	494.5	493.0	493.0	495.0	494.2	494.3
10	508.5	↑	↑	↑	↑	↑	508.8	508.4	506.5	506.9	506.9	506.5	507.0	506.3	506.7	506.7	506.5	507.0	507.0	508.0	508.0	508.2	507.0	506.8	506.6	509.0	508.3	508.0
11	493.0	↑	↑	↑	↑	↑	492.7	493.5	492.0	492.5	492.9	492.9	492.5	492.1	491.3	491.1	491.6	492.5	492.8	492.5	493.0	493.9	493.0	492.8	492.2	493.5	494.0	493.0
12	461.0	↑	↑	↑	↑	↑	462.0	462.7	459.5	461.0	462.1	460.7	461.1	462.1	461.2	460.3	461.6	461.5	462.8	462.0	462.5	463.0	462.0	461.0	461.8	462.0	462.0	461.1
13	488.0	↑	↑	↑	↑	↑	484.3	484.9	488.9	487.9	487.5	488.1	488.1	486.2	488.5	487.5	488.0	487.5	488.9	488.5	488.5	488.2	488.5	488.0	489.5	488.6	488.0	
14	508.5	↑	↑	↑	↑	↑	507.3	508.7	508.0	509.7	508.5	508.0	508.7	507.7	507.6	507.7	507.5	508.0	508.2	507.5	507.5	508.2	508.1	508.3	507.5	508.0	507.9	508.0
15	494.5	↑	↑	↑	↑	↑	495.2	495.6	494.5	494.1	494.9	494.3	494.5	494.0	494.2	494.9	494.5	494.5	494.0	494.0	494.3	495.0	494.5	488.7	494.5	494.0	494.5	
16	519.0	↑	↑	↑	↑	↑	519.7	520.0	519.1	519.3	519.5	518.9	519.5	519.2	519.2	519.3	519.0	519.5	519.0	519.0	518.5	518.5	518.8	519.0	518.5	520.0	518.8	519.2
17	517.5	↑	↑	↑	↑	↑	517.0	516.7	515.1	515.1	515.3	514.5	515.9	514.7	514.8	515.0	515.0	515.5	515.5	516.0	516.0	517.0	515.1	515.0	515.0	517.5	516.0	516.0
18	509.0	↑	↑	↑	↑	↑	510.6	510.2	509.1	508.9	509.1	508.9	508.0	508.8	508.8	509.0	509.0	508.0	509.2	510.0	510.5	510.8	509.2	509.0	508.9	511.0	510.7	509.8
19	513.0	↑	↑	↑	↑	↑	513.1	512.8	511.2	511.5	511.8	510.8	511.6	511.2	511.1	511.2	510.5	511.5	512.0	512.5	512.5	513.0	511.8	511.4	511.5	513.5	513.0	512.3
20	509.5	↑	↑	↑	↑	↑	509.3	508.9	507.5	507.6	507.9	507.0	507.9	507.3	507.4	507.9	507.3	508.0	508.0	508.5	509.0	509.5	508.0	507.5	507.5	509.5	509.0	509.3
21	513.5	↑	↑	↑	↑	↑	513.9	513.1	511.5	511.6	511.9	511.1	511.8	511.2	512.4	511.9	511.6	512.0	512.0	512.5	513.0	513.0	512.0	512.8	512.0	513.5	513.1	512.2
22	517.5	↑	↑	↑	↑	↑	517.3	517.2	515.5	515.8	516.1	515.1	515.7	515.4	515.4	515.7	515.7	516.0	516.2	517.0	517.0	517.5	516.5	515.5	515.9	518.0	517.9	517.1
23	511.5	↑	↑	↑	↑	↑	0.05	0.05	507.5	508.2	508.2	507.8	508.5	508.0	508.6	508.1	508.1	509.0	509.0	509.5	509.5	510.2	509.8	509.0	508.6	510.5	510.1	509.0
24	514.0	↑	↑	↑	↑	↑	514.2	514.2	513.1	512.9	512.5	511.9	512.5	512.1	512.2	512.4	512.3	512.5	513.0	513.5	513.5	514.0	513.5	512.5	512.8	514.8	513.8	513.2

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SUBJECT 01-S-225SHEET NO. 5

D.L.

SECTION I

P.S.

Reactivity Life Time

S.A.P.S.

DIVISION

COMPILED BY

CHECKED BY

DATE 10-3-58 to 10/7/58

TABLE V

BLANKET EXIT AND INLET TEMPERATURES																												
DATE	10/3/58					10/4/58					10/5/58					10/6/58					10/7/58							
TIME	1300	1900	2300	0300	0700	1100	1500	1900	2300	0300	0700	1100	1500	1900	2300	0035	0100	0130	0300	0700	1100	1500	1900	2300	2330	2400	0030	0100
Pt.																												
1	504.5	503.7	505.2	506.5	505.5	505.5	506.7	505.0	506.0	506.0	506.0	504.9	504.7	506.6	506.1	506.3	506.2	506.2	505.6	505.5	504.3	504.5	504.5	505.6	505.9	505.9	505.2	505.9
2	506.2	505.0	506.7	508.5	507.5	507.0	506.2	507.9	507.5	507.4	507.2	506.0	506.0	508.9	508.2	508.0	508.0	507.6	507.1	507.2	505.9	506.2	507.0	507.2	507.0	506.9	507.0	
3	506.0	506.2	506.9	506.5	506.0	506.5	506.7	506.9	506.5	506.4	507.0	506.2	506.5	506.3	506.7	506.8	506.5	506.0	506.0	506.5	506.5	506.8	506.5	505.9	506.0	507.0	505.5	506.0
4	507.0	506.8	507.2	507.0	507.0	507.8	507.9	508.0	507.5	507.1	507.8	507.1	507.5	507.3	507.7	507.5	507.3	506.9	506.8	507.5	507.5	508.0	507.5	507.0	506.9	506.9	506.1	506.9
5	499.1	498.8	499.7	499.7	499.8	499.5	500.0	500.0	500.0	499.8	500.0	499.5	499.5	500.0	500.0	500.0	500.0	499.1	498.9	499.5	500.0	500.0	500.0	499.0	499.0	499.9	499.9	499.8
6	508.5	507.8	508.6	509.0	508.5	509.0	509.2	509.0	509.0	508.7	508.8	508.2	509.0	510.1	509.7	509.2	508.9	508.3	508.0	508.5	509.1	509.1	508.5	508.0	508.2	508.1	507.5	508.0
7	512.0	511.2	512.0	513.6	512.9	512.9	512.5	512.9	513.0	513.3	512.8	512.1	512.5	514.4	513.8	513.3	513.1	512.8	512.7	513.0	512.6	512.8	512.5	512.1	512.2	512.2	511.6	512.5
8	507.3	506.8	507.5	508.3	508.0	508.5	508.2	508.2	508.0	507.7	508.2	507.5	507.8	510.0	509.1	508.8	508.4	507.9	507.6	508.0	507.8	508.3	508.0	507.4	507.5	507.5	507.0	507.5
9	523.1	522.5	523.2	523.3	523.0	523.5	523.5	524.0	523.5	523.1	523.6	523.0	523.3	523.3	523.7	523.2	523.4	523.0	523.0	523.5	523.4	524.0	524.0	522.8	522.9	523.0	522.5	523.0
10	512.1	511.0	511.8	512.9	512.0	512.2	512.5	512.0	511.8	512.2	511.8	512.1	513.7	512.8	512.7	512.2	511.6	511.5	512.5	511.6	512.5	512.0	511.5	511.5	511.8	511.0	511.5	511.5
11	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
12	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
13	503.9	503.2	504.3	506.3	505.9	506.0	506.3	505.1	505.0	505.1	505.1	505.0	505.0	504.4	505.6	506.0	506.8	506.4	506.4	505.0	504.6	504.2	504.5	505.2	505.1	505.0	505.0	505.0
14	499.9	499.0	495.3	497.5	497.2	497.2	495.0	496.0	496.0	496.5	497.2	497.2	495.2	496.2	496.5	496.2	498.0	497.7	496.0	494.8	495.2	495.5	496.0	495.9	496.0	495.5	496.0	496.0
15	499.0	498.9	499.8	501.5	501.1	501.5	499.2	501.0	500.0	500.4	500.8	500.8	500.7	499.7	501.8	501.0	501.2	501.0	502.0	500.5	499.4	499.9	500.0	500.5	500.5	500.1	500.1	500.5
16	508.0	507.8	508.5	509.5	509.0	509.5	508.4	509.3	509.0	508.9	509.2	508.8	508.9	508.7	509.3	509.5	509.5	509.2	509.0	509.0	508.8	508.8	508.5	508.9	508.5	508.9	508.3	508.9
17	511.1	510.5	512.1	513.8	513.4	513.5	511.7	513.2	512.5	513.1	513.0	512.7	512.6	511.9	513.3	513.8	514.0	514.0	514.0	513.0	511.9	512.0	512.5	513.0	513.0	513.1	513.0	513.1
18	503.5	502.5	503.9	504.9	504.5	504.5	504.0	504.3	504.5	504.5	505.0	503.9	503.9	505.0	504.0	505.0	504.7	504.3	504.2	504.5	503.8	504.0	504.0	504.1	504.5	504.2	504.0	504.5
19	493.2	492.8	493.2	493.7	493.3	493.5	493.9	493.9	493.5	494.0	493.6	493.5	493.5	493.2	492.5	492.8	493.0	493.2	492.9	492.5	491.9	493.2	493.0	493.0	492.9	493.0	492.9	493.0
20	506.9	506.0	506.6	507.0	507.0	507.5	507.2	507.1	507.5	507.2	507.5	506.8	507.0	506.9	506.2	507.2	507.2	506.9	507.0	507.5	506.7	506.9	506.5	507.0	506.5	507.0	507.0	507.0
21	500.0	500.0	500.5	501.3	501.6	501.0	500.2	501.0	500.9	501.0	500.5	500.9	502.8	501.1	501.2	501.1	500.9	500.3	500.5	500.6	501.0	501.0	501.0	501.0	500.5	500.7	500.0	500.4
22	501.5	502.0	502.1	502.3	502.0	502.3	502.3	501.3	502.0	502.3	502.5	501.7	502.0	502.3	501.7	502.5	502.2	501.5	501.5	502.0	501.7	502.0	502.5	502.0	501.9	502.0	501.5	502.0
23	493.5	493.5	493.5	494.6	499.0	493.5	493.9	493.5	494.0	494.0	495.0	494.0	493.6	493.6	493.8	494.4	494.5	493.8	493.7	493.5	493.2	493.2	493.0	494.0	499.2	494.2	492.3	494.0
24	505.5	506.0	505.9	506.8	506.9	506.5	506.7	506.2	507.0	506.9	507.0	505.8	505.6	506.0	506.3	507.0	507.0	506.2	506.5	506.5	506.0	505.9	506.0	507.0	506.5	506.8	506.5	506.9
25	504.3	504.2	504.5	505.5	505.1	505.1	504.7	505.0	505.0	505.3	505.5	504.6	504.4	505.2	504.5	506.0	505.6	505.2	505.0	505.6	504.7	504.8	504.5	505.0	505.2	505.2	505.0	505.5
26	507.9	508.2	507.7	508.5	508.5	508.5	507.8	508.0	508.5	508.5	509.0	507.7	507.5	507.7	507.9	507.0	507.2	506.1	506.2	509.0	508.0	507.8	507.5	508.0	508.6	508.5	506.9	506.8
27	430.9	430.2	430.7	431.5	431.0	431.0	431.5	431.1	431.0	431.7	431.0	431.0	430.6	430.6	430.5	430.8	430.9	431.0	430.4	430.0	429.1	430.2	430.5	430.5	430.8	430.5	430.2	430.2
28	486.5	486.9	485.8	487.5	487.1	487.8	486.9	482.5	487.5	487.2	487.4	486.8	486.8	486.8	486.5	487.5	487.5	487.2	487.0	487.5	487.0	486.5	486.5	486.9	486.9	486.9	486.5	486.9
29	485.5	486.1	485.8	486.5	486.2	486.5	486.2	486.5	486.5	486.5	486.2	486.1	486.0	486.0	485.9	486.8	486.8	486.8	486.6	486.2	486.5	486.1	486.1	486.0	486.0	486.1	486.0	486.1
30	483.9	487.5	489.3	489.5	489.5	485.0	489.5	485.0	485.0	489.5	489.5	484.2	489.3	484.2	484.0	484.9	484.8	484.3	484.2	480.5	484.2	484.2	484.0	484.0	484.0	484.0	484.0	484.0
31	485.2	486.6	486.6	486.3	486.1	486.5	486.0	486.3	486.5	486.2	486.1	485.8	485.5	486.0	486.0	486.4	486.5	486.6	486.0	486.0	486.0	486.0	486.0	486.0	486.0	486.0	486.0	486.0
32	486.5	486.2	487.1	487.5	487.1	487.4	487.5	487.5	487.5	487.8	487.0	486.8	487.2	487.0	487.2	487.2	487.2	487.2	487.2	487.2	487.2	487.2	487.2	487.2	487.2	487.2	487.2	487.2

508

Reactivity Life time

SAPS

10-3-58 to 10/7/58

TABLE V

[illegible]

1 Recorder was still moving upward in temp. at the time chart was marked. (Inst. error)

105

SUBJECT DL-S-225 SHEET NO. 6

DL

P.S.

S.A.P.S.

COMPANY

DEPARTMENT

POSITION

REACTIVITY Life Time

CHECKED BY

DATE 10-7-58

TABLE V

BLANKET EXIT AND INLET TEMPERATURES

DATE 10-7-58TIME 0130 0200 0300 0400 0500 0600 0700 0900 1000 1100 1200 1300 1400 1430 1500 1600 1700 1800 1900 2000 2030 2100 2130 2200 2230 2300 2330

PT.

1.	506.1	506.0	505.7	505.2	505.5	505.7	505.5	504.5	504.0	504.7	504.6	504.4	504.7	504.8	505.0	505.5	506.0	505.5	505.0	506.0	507.0	507.5	508.0	507.5	507.5	507.0	507.2
2.	507.5	507.3	506.9	506.3	506.5	506.9	506.9	505.8	505.3	506.2	506.2	506.0	506.3	506.6	506.9	507.3	507.7	507.5	506.8	507.9	507.3	507.5	510.0	509.5	509.5	509.0	509.8
3.	506.5	506.0	506.0	506.0	506.3	506.5	506.9	506.0	505.7	507.0	507.2	506.8	506.9	506.9	507.1	507.5	507.5	506.5	506.2	506.5	506.9	505.5	506.0	505.5	505.5	505.0	506.0
4.	507.0	507.0	507.0	507.0	507.2	507.2	507.0	507.4	506.7	508.0	508.1	507.9	508.0	508.0	508.2	508.5	508.3	507.5	507.2	507.7	507.5	507.0	507.0	506.5	507.0	506.1	507.0
5.	499.9	499.8	499.0	499.2	499.5	500.0	500.0	499.3	497.0	500.0	500.1	500.0	500.3	500.0	500.5	500.5	500.8	500.0	499.5	500.0	500.0	500.0	500.0	500.0	500.0	499.0	499.5
6.	508.5	508.5	508.0	508.0	508.2	508.7	508.8	508.6	508.0	509.1	509.3	509.0	509.1	509.2	509.4	510.0	509.9	510.0	508.3	509.1	509.5	509.9	510.0	509.8	509.8	509.0	509.5
7.	512.9	512.6	512.4	512.3	512.7	512.9	512.9	512.2	511.2	512.2	512.2	511.9	512.1	512.2	512.0	512.5	512.5	513.0	511.2	512.5	512.5	513.0	513.7	513.2	513.5	512.2	513.3
8.	508.0	507.5	507.6	507.6	507.9	508.0	508.0	507.8	506.8	507.6	507.6	507.1	507.4	507.8	512.8	507.9	507.9	508.3	506.3	507.5	507.5	508.2	509.0	508.6	508.9	508.0	508.7
9.	523.0	523.0	522.9	522.9	523.1	523.9	523.9	523.5	522.6	523.6	523.8	523.0	523.3	523.6	523.3	524.0	524.0	524.0	522.2	523.0	522.5	522.0	522.3	521.9	522.0	521.0	521.6
10.	512.0	511.9	511.5	511.5	512.0	512.9	512.5	512.0	511.1	512.2	512.0	511.8	511.9	512.0	511.9	512.0	512.3	512.5	510.7	510.3	512.0	512.2	512.5	512.5	512.5	511.6	512.0
11.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
12.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
13.	506.0	505.8	505.0	505.0	505.1	505.4	505.0	504.1	503.6	504.3	503.7	503.6	503.8	503.1	503.8	504.5	504.8	504.5	503.0	503.0	504.9	509.5	509.5	509.7	509.5	509.4	509.0
14.	496.5	496.3	496.2	496.0	496.0	496.0	496.0	495.0	494.1	494.8	494.4	494.1	494.3	493.1	494.4	494.8	495.0	494.5	492.7	493.0	494.9	494.6	495.0	494.8	494.0	494.0	494.0
15.	501.0	500.9	500.1	500.1	500.0	500.2	500.1	499.0	498.5	499.0	498.9	498.4	498.7	498.0	499.0	499.5	499.7	499.5	498.0	498.3	500.0	499.7	500.0	499.8	499.5	499.5	500.0
16.	509.1	508.9	508.9	508.8	508.9	509.0	509.0	508.1	507.0	508.5	508.4	508.0	508.1	508.0	508.2	508.9	509.0	508.0	507.8	507.0	508.5	508.0	507.5	508.0	508.0	507.5	508.3
17.	513.5	513.8	513.2	512.9	512.9	513.0	512.7	511.8	510.9	511.5	511.0	511.0	511.1	510.5	511.0	512.1	512.7	512.0	511.0	511.4	512.7	512.3	512.0	512.3	512.0	512.0	512.7
18.	504.8	504.7	504.5	504.4	504.5	504.7	504.5	504.0	503.6	504.3	504.2	504.0	504.0	504.3	504.2	504.6	505.0	505.0	503.8	503.6	505.0	505.0	505.0	505.0	505.0	505.0	505.3
19.	443.0	443.0	443.0	443.0	442.9	442.9	442.3	442.2	442.3	443.8	444.3	445.0	445.2	445.1	445.4	446.2	446.5	446.8	446.2	445.3	445.0	445.0	445.0	445.0	445.0	445.0	445.0
20.	508.0	507.8	507.2	507.5	507.5	507.4	507.8	506.8	506.2	507.0	507.1	506.5	506.7	506.8	506.9	507.5	507.7	508.2	506.9	506.8	507.3	507.0	507.0	507.0	507.0	507.0	507.0
21.	501.0	500.9	500.5	500.3	500.4	500.8	500.9	500.2	499.2	500.3	500.4	500.3	500.5	500.6	500.8	501.0	501.3	501.5	500.0	500.0	501.0	501.5	501.5	501.7	501.8	501.0	501.5
22.	502.2	502.0	502.0	501.8	501.9	502.0	502.2	501.5	500.5	501.8	501.8	501.6	501.9	502.0	502.2	502.5	502.9	503.0	501.8	501.5	502.0	501.5	501.3	501.9	501.3	501.0	501.5
23.	493.5	494.0	493.6	492.2	494.2	499.1	593.4	493.4	492.7	493.8	493.0	492.7	493.8	493.0	493.3	493.5	493.9	499.0	499.0	499.0	495.0	495.0	499.5	495.0	494.7	494.9	494.5
24.	507.5	506.9	506.7	506.8	506.8	506.8	506.5	505.6	504.8	505.6	505.5	505.5	505.5	505.9	506.0	506.7	507.1	507.5	506.0	506.0	507.0	506.5	506.5	506.5	506.6	506.2	506.5
25.	505.9	505.7	505.4	505.2	505.4	505.5	505.2	504.2	503.7	504.6	504.5	504.4	504.6	504.5	504.8	505.0	505.5	505.5	504.5	504.5	504.7	505.7	505.7	505.8	505.8	505.8	505.1
26.	501.0	500.9	500.6	500.1	500.2	500.7	500.5	507.5	506.8	507.3	507.2	507.2	507.6	507.5	508.0	508.5	509.0	509.0	507.5	508.0	508.5	508.2	508.0	508.0	508.0	507.9	508.0
27.	430.9	431.0	430.9	430.5	430.3	430.2	430.2	429.8	430.4	431.5	432.3	432.3	433.1	433.4	433.9	434.5	435.0	435.0	434.8	434.2	434.0	434.1	434.0	434.0	433.8	434.0	434.0
28.	487.0	487.1	486.9	486.9	487.0	487.2	487.2	486.4	486.0	486.7	486.2	486.2	486.2	486.1	486.3	486.8	487.0	487.3	486.4	486.4	487.0	486.6	486.5	486.8	486.8	486.8	487.0
29.	486.5	486.0	486.2	486.1	486.5	486.4	486.2	485.7	485.1	485.9	485.7	485.4	485.7	485.5	485.8	486.0	486.0	486.6	485.5	485.7	486.3	486.0	485.5	486.0	486.2	485.9	486.5
30.	485.0	484.5	484.5	484.5	484.5	484.6	484.8	484.0	483.3	484.2	484.0	484.0	484.0	477.2	484.5	484.8	484.9	483.8	483.6	484.0	483.9	483.5	484.0	484.0	483.9	484.0	484.5
31.	486.5	486.0	486.0	486.0	486.1	486.1	486.1	485.9	485.0	485.8	485.5	485.6	485.8	485.7	485.6	486.0	486.2	486.5	485.2	485.5	486.0	485.6	485.5	486.0	486.0	486.0	486.2
32.	487.9	487.6	487.2	487.2	487.2	487.4	487.4	487.0	486.1	488.0	486.6	486.6	486.8	487.0	487.0	487.3	486.2	486.3	486.9	486.5	486.3	486.5	486.8	486.8	486.8	486.8	487.1

10K

DL-S-225

60

DL

REACTIVITY LIFE TIME

PS

SAPS

10-7-58

TABLE V

BLANKET EXIT AND INLET TEMPERATURES

DATE 10-7-58

TIME	0130	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2030	2100	2130	2200	2230	2300	2330
33.	487.5	487.1	486.6	486.3	486.9	486.9	486.6	486.5	486.1	485.1	486.0	485.5	485.5	486.0	485.9	486.0	486.6	486.9	487.0	487.0	487.0	487.0	487.0	487.3	487.3	487.3	487.3
34.	486.5	484.5	487.1	486.9	486.9	486.5	486.5	486.5	486.0	486.6	487.0	487.0	487.0	487.0	487.0	487.0	487.5	488.5	489.0	488.8	489.5	489.5	489.5	489.9	489.9	489.9	489.5
35.	510.2	510.0	509.9	509.5	509.5	509.0	509.0	509.0	507.8	507.8	508.6	508.6	508.8	508.8	508.8	509.1	510.3	511.0	511.0	510.0	510.5	511.0	510.8	511.0	510.5	510.7	510.0
36.	469.0	469.0	469.5	469.0	469.0	469.4	470.0	470.0	469.3	468.9	469.4	469.9	469.3	470.0	470.0	470.0	469.6	470.5	469.3	470.0	470.0	470.0	470.5	470.3	470.0	470.0	470.0
37.	479.0	479.0	479.0	479.1	479.5	479.9	480.0	480.0	478.9	480.3	482.7	482.8	482.7	482.7	482.8	482.2	483.3	481.5	481.5	481.0	481.8	481.9	482.0	481.5	481.5	481.0	480.4
38.	519.8	519.5	519.0	519.5	520.0	520.3	521.0	521.0	520.5	520.3	521.3	521.3	521.0	521.0	520.6	520.8	521.0	521.0	519.6	519.0	519.2	519.5	519.0	518.5	518.5	518.0	519.0

SEED EXIT AND INLET TEMPERATURES

DATE 10-7-58

A-7-58

10-7-58

TIME	0130	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2030	2100	2130	2200	2230	2300	2330
1	510.5	510.0	509.4	509.2	509.7	509.9	510.2	511.6	510.8	511.0	510.9	511.1	511.9	511.0	511.5	511.5	512.0	509.9	509.5	510.0	509.5	509.5	509.0	509.5	508.9	509.5	509.5
2	501.2	500.5	500.7	501.0	501.0	501.2	501.6	501.0	501.1	501.0	501.9	502.0	502.0	501.8	502.0	502.2	502.4	502.2	502.5	501.2	501.0	501.2	501.1	501.0	501.0	500.9	500.0
3	511.3	510.9	510.7	510.5	511.1	511.5	512.0	512.2	512.0	512.6	513.7	513.9	513.8	514.0	514.1	514.4	514.5	514.5	514.5	512.8	512.9	512.5	512.0	511.5	511.5	511.0	512.0
4	457.2	457.0	457.0	457.0	457.2	457.8	458.1	457.6	457.7	457.6	458.9	458.1	458.8	458.1	458.2	458.2	458.2	458.0	458.5	457.5	456.5	458.9	457.5	459.0	459.0	457.9	457.9
5	493.4	493.2	493.0	493.1	493.5	493.9	493.9	493.9	493.9	493.3	492.6	493.0	492.9	492.8	492.9	493.0	492.9	492.9	492.5	492.0	492.9	493.2	493.5	492.9	493.0	492.9	492.0
6	516.0	515.6	515.4	515.5	516.0	516.0	516.1	515.8	514.8	514.3	515.2	515.0	514.7	515.0	515.0	515.0	515.2	515.8	516.0	514.5	514.8	515.5	515.0	514.6	514.9	514.9	514.9
7	482.3	481.5	481.0	480.0	482.5	480.1	481.9	481.0	481.0	481.1	481.5	481.1	481.6	481.6	481.6	482.0	482.6	482.9	483.4	482.5	482.9	482.0	483.2	482.5	482.7	483.0	482.5
8	484.3	483.5	483.5	483.5	483.5	483.4	483.5	483.3	483.2	483.0	483.0	483.2	482.7	483.7	483.6	483.8	484.0	484.5	485.0	484.0	484.0	484.5	485.0	484.0	484.0	484.5	484.5
9	494.5	494.1	493.8	493.5	497.2	494.8	493.8	493.5	493.0	492.9	493.5	493.9	493.8	493.9	494.0	494.1	494.2	494.8	495.1	494.0	494.0	494.9	494.5	494.0	494.4	494.5	494.5
10	508.8	508.5	508.5	508.0	507.9	507.8	507.5	507.0	506.1	506.1	507.0	507.0	507.1	507.3	507.3	508.0	508.3	509.2	509.2	509.5	509.0	509.5	509.0	509.0	509.0	509.0	509.0
11	493.8	493.0	493.0	492.9	492.5	492.8	492.9	492.5	491.9	490.3	490.9	490.3	490.7	490.8	491.3	491.8	491.5	492.0	493.0	492.2	492.0	492.5	492.5	492.0	492.5	492.0	492.5
12	461.3	461.8	459.4	458.9	461.0	460.0	460.5	460.8	460.6	460.0	459.6	458.9	459.0	459.7	462.1	462.2	463.5	463.0	464.0	463.0	463.9	465.0	465.0	463.0	462.0	462.5	462.5
13	486.8	486.0	486.1	486.0	487.5	487.0	487.0	487.3	486.8	485.1	487.3	488.7	488.6	489.0	487.7	488.4	489.2	490.0	489.0	489.5	489.9	490.0	490.5	490.5	490.5	490.0	489.0
14	501.0	501.9	506.1	507.0	507.5	508.0	509.0	509.1	508.7	507.6	509.0	508.0	508.0	508.0	508.0	508.0	507.8	508.0	507.5	506.0	505.5	506.9	505.1	505.2	505.0	505.2	504.5
15	493.2	493.0	492.7	492.8	493.8	493.9	494.5	494.5	494.0	493.9	494.6	494.9	494.9	494.9	494.5	494.5	494.0	494.0	493.0	492.0	491.5	491.0	490.5	490.5	490.5	490.5	490.5
16	518.4	518.0	518.2	518.5	518.8	519.5	519.5	520.0	520.0	519.7	519.4	520.6	520.2	519.9	519.9	519.8	519.8	519.5	519.0	518.0	517.5	518.5	517.7	518.0	517.2	517.0	517.5
17	516.8	516.5	516.1	516.0	516.1	516.0	516.6	516.2	516.3	516.3	514.3	514.3	514.2	—	—	—	515.0	—	516.5	515.5	515.5	516.0	516.5	516.2	517.0	516.5	516.5
18	510.9	510.5	510.2	510.1	509.9	509.9	509.5	509.3	508.9	508.6	508.9	508.9	508.9	508.9	508.9	508.9	508.9	508.9	508.9	508.9	508.9	508.9	508.9	508.9	508.9	508.9	508.9
19	513.0	513.0	512.3	512.0	512.0	512.0	511.8	511.8	511.7	510.0	511.0	510.9	510.3	510.7	511.3	511.6	512.0	512.5	512.0	512.0	511.9	512.6	512.5	513.0	512.5	512.5	512.0
20	509.3	509.0	508.7	508.5	508.2	508.1	508.0	507.0	506.3	507.3	507.1	507.0	507.2	507.9	508.0	513.2	509.0	508.5	508.0	508.5	509.9	509.5	509.5	509.5	509.9	509.0	509.0
21	512.8	512.5	512.2	512.0	512.0	511.9	512.0	511.8	510.8	510.0	510.2	511.5	511.0	511.3	511.9	512.0	512.2	513.0	513.5	512.0	511.9	511.0	514.5	514.8	515.0	514.5	514.5
22	517.2	517.0	516.6	516.5	516.1	516.1	516.1	516.0	515.0	514.2	515.3	515.3	515.0	515.6	516.0	516.0	516.7	517.0	517.9	516.2	517.0	517.0	517.0	517.0	517.0	517.0	517.0
23	535.1	534.2	530.9	530.9	530.9	530.9	530.9	530.9	530.9	530.9	530.9	530.9	530.9	530.9	530.9	530.9	530.9	530.9	530.9	530.9	530.9	530.9	530.9	530.9	530.9	530.9	530.9
24	514.0	513.2	513.0	512.9	513.5	513.8	512.9	511.8	511.1	512.3	512.1	512.1	512.2	512.8	512.9	513.2	514.0	514.2	513.0	513.2	514.0	513.2	513.0	513.5	513.5	513.0	513.5

1 RECORDED. WAS STILL MOVING UPWARD IN TEMP. AT THE TIME THE CHART WAS MARKED.

DL
P.S.
SARS

SUBJECT DL-S-225 SHEET NO. 7a

COMPANY
DEPARTMENT
DIVISION
COMPILED BY
CHECKED BY
DATE 10-8-58

REACTIVITY LIFETIME

TABLE II

DATE 10-8-58		BLANKET EXIT AND INLET TEMPERATURES																								DATE 10-9-58		
TIME	2400	0030	0300	0700	1100	1500	1900	2030	2100	2130	2200	2230	2300	2330	2400	0030	0100	0300	0700	0930	1000	1030	1100	1130	1200	1230	1300	1330
33	406.4	407.1	407.2	408.5	408.2	408.2	408.5	408.6	408.6	408.7	408.7	408.7	408.7	408.7	408.7	408.7	408.7	408.7	408.7	408.7	408.7	408.7	408.7	408.7	408.7	408.7	408.7	408.7
34	404.9	407.9	408.0	408.5	408.5	408.5	408.4	408.5	408.5	408.5	408.5	408.5	408.5	408.5	408.5	408.5	408.5	408.5	408.5	408.5	408.5	408.5	408.5	408.5	408.5	408.5	408.5	408.5
35	510.1	510.5	510.2	508.0	508.5	508.6	510.0	510.0	510.0	510.9	510.5	510.5	510.5	510.5	510.9	510.5	510.9	509.9	507.8	508.0	507.7	507.9	508.4	508.9	507.9	509.6	509.0	509.0
36	470.1	471.0	471.0	470.1	470.6	471.0	470.5	469.5	468.7	470.0	470.0	469.9	470.0	470.0	470.0	470.0	470.0	470.0	470.0	470.0	470.0	470.0	470.0	470.0	470.0	470.0	470.0	470.0
37	470.8	470.0	470.5	470.0	470.0	470.5	470.8	470.3	470.5	470.5	470.9	470.8	470.5	470.0	470.9	470.9	470.0	470.0	470.0	470.0	470.0	470.0	470.0	470.0	470.0	470.0	470.0	470.0
38	510.8	510.1	510.0	509.5	509.9	510.5	510.0	510.3	510.5	510.5	510.5	510.5	510.5	510.5	510.5	510.5	510.5	510.5	510.5	510.5	510.5	510.5	510.5	510.5	510.5	510.5	510.5	510.5
DATE 10-7-58		SEED EXIT AND INLET TEMPERATURES																										
TIME	2400	0030	0300	0700	1100	1500	1900	2030	2100	2130	2200	2230	2300	2330	2400	0030	0100	0300	0700	0930	1000	1030	1100	1130	1200	1230	1300	1330
1	509.6	509.5	509.0	509.0	512.0	510.5	510.0	510.0	510.0	509.5	509.5	510.0	509.5	509.5	510.4	510.5	510.1	510.1	510.5	512.2	511.8	511.7	511.8	512.2	511.8	512.0	512.0	512.0
2	499.0	500.5	501.0	501.0	502.0	502.0	500.5	500.0	500.0	500.5	500.0	500.0	500.0	500.0	500.0	500.0	500.0	500.0	500.0	502.3	501.6	501.7	502.0	501.8	501.7	502.5	502.5	502.0
3	511.3	511.2	511.7	511.5	512.0	511.8	512.0	510.5	510.0	510.0	510.0	510.0	509.5	510.0	510.0	511.0	511.0	511.1	512.0	513.6	512.7	513.0	513.0	513.0	513.0	513.0	513.0	512.3
4	456.8	457.1	457.2	457.0	458.0	456.5	456.5	456.0	456.0	456.0	456.0	456.0	456.0	456.0	456.0	456.0	456.0	456.0	456.0	457.7	457.8	457.9	457.6	457.8	457.8	457.8	458.1	457.5
5	492.9	493.1	493.4	492.5	492.0	492.5	492.5	492.9	492.5	492.5	492.5	492.5	492.5	492.5	492.5	492.5	492.5	492.5	492.5	493.2	493.0	493.2	493.0	493.0	493.0	493.0	493.0	493.0
6	515.6	515.0	515.1	515.0	515.0	514.5	514.5	514.5	514.5	514.5	514.5	514.5	514.5	514.5	514.5	514.5	514.5	514.5	514.5	514.6	514.8	514.9	514.6	514.5	514.5	514.5	514.5	514.8
7	482.7	482.3	481.8	482.0	482.0	482.0	481.0	481.0	481.0	481.0	481.0	481.0	481.0	481.0	481.0	481.0	481.0	481.0	481.0	482.7	482.7	482.7	482.7	482.7	482.7	482.7	482.7	482.7
8	484.1	484.2	483.9	483.5	483.0	483.0	482.5	482.5	482.5	482.5	482.5	482.5	482.5	482.5	482.5	482.5	482.5	482.5	482.5	482.5	482.5	482.5	482.5	482.5	482.5	482.5	482.5	482.5
9	494.5	494.1	493.3	493.0	493.5	493.0	493.0	493.0	493.0	493.0	493.0	493.0	493.0	493.0	493.0	493.0	493.0	493.0	493.0	493.0	493.0	493.0	493.0	493.0	493.0	493.0	493.0	493.0
10	500.0	500.7	501.0	500.6	500.5	500.5	500.0	500.5	500.5	500.5	500.5	500.5	500.5	500.5	500.5	500.5	500.5	500.5	500.5	500.5	500.5	500.5	500.5	500.5	500.5	500.5	500.5	500.5
11	493.9	493.9	493.0	492.1	492.5	491.6	492.0	492.0	492.0	492.0	492.0	492.0	492.0	492.0	492.0	492.0	492.0	492.0	492.0	492.0	492.0	492.0	492.0	492.0	492.0	492.0	492.0	492.0
12	460.2	462.5	460.9	460.0	460.5	460.5	461.0	460.8	460.5	460.5	460.5	460.5	460.5	460.5	460.5	460.5	460.5	460.5	460.5	461.3	460.5	460.5	460.5	460.5	460.5	460.5	460.5	460.5
13	480.4	480.1	480.2	480.0	480.0	480.0	480.0	480.0	480.0	480.0	480.0	480.0	480.0	480.0	480.0	480.0	480.0	480.0	480.0	480.0	480.0	480.0	480.0	480.0	480.0	480.0	480.0	480.0
14	506.1	506.6	507.3	508.3	510.0	507.5	506.5	506.2	506.0	506.0	506.0	506.0	506.0	506.0	506.0	506.0	506.0	506.0	506.0	506.0	506.0	506.0	506.0	506.0	506.0	506.0	506.0	506.0
15	492.6	493.0	493.1	492.0	492.0	492.0	492.0	492.0	492.0	492.0	492.0	492.0	492.0	492.0	492.0	492.0	492.0	492.0	492.0	492.0	492.0	492.0	492.0	492.0	492.0	492.0	492.0	492.0
16	517.9	517.7	518.0	519.5	520.5	519.0	518.5	518.0	518.0	518.0	518.0	518.0	518.0	518.0	518.0	518.0	518.0	518.0	518.0	518.0	518.0	518.0	518.0	518.0	518.0	518.0	518.0	518.0
17	516.2	516.5	516.7	516.0	516.5	516.5	516.5	516.5	516.5	516.5	516.5	516.5	516.5	516.5	516.5	516.5	516.5	516.5	516.5	516.5	516.5	516.5	516.5	516.5	516.5	516.5	516.5	516.5
18	510.1	510.5	510.2	509.0	508.5	508.2	508.5	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0
19	512.3	512.4	512.3	512.5	511.0	510.5	510.5	510.5	510.5	510.5	510.5	510.5	510.5	510.5	510.5	510.5	510.5	510.5	510.5	510.5	510.5	510.5	510.5	510.5	510.5	510.5	510.5	510.5
20	509.1	509.2	509.5	509.0	509.0	509.0	509.0	509.0	509.0	509.0	509.0	509.0	509.0	509.0	509.0	509.0	509.0	509.0	509.0	509.0	509.0	509.0	509.0	509.0	509.0	509.0	509.0	509.0
21	514.3	513.9	513.8	512.5	511.0	510.5	510.5	510.5	510.5	510.5	510.5	510.5	510.5	510.5	510.5	510.5	510.5	510.5	510.5	510.5	510.5	510.5	510.5	510.5	510.5	510.5	510.5	510.5
22	510.7	510.0	510.5	510.0	510.5	510.5	510.5	510.5	510.5	510.5	510.5	510.5	510.5	510.5	510.5	510.5	510.5	510.5	510.5	510.5	510.5	510.5	510.5	510.5	510.5	510.5	510.5	510.5
23	550.0	550.0	550.0	550.0	550.0	550.0	550.0	550.0	550.0	550.0	550.0	550.0	550.0	550.0	550.0	550.0	550.0	550.0	550.0	550.0	550.0	550.0	550.0	550.0	550.0	550.0	550.0	550.0
24	513.2	513.5	513.9	514.9	512.5	512.0	512.0	512.0	512.0	512.0	512.0	512.0	512.0	512.0	512.0	512.0	512.0	512.0	512.0	512.0	512.0	512.0	512.0	512.0	512.0	512.0	512.0	512.0
RECORDER WAS STILL MOVING UPWARD IN TEMPERATURE AT THE TIME THE CHART WAS MARKED.																												

RECORDED WAS STILL MOVING UPWARD IN TEMPERATURE AT THE TIME THE CHART WAS MARKED.

CONTRACT

2000

DIVISION

См. также: [См. также](#)

10-9-58

TABLE V

FORM GAI-3122

BLANKET EXIT AND INLET TEMPERATURES

10-10

SEED EXIT AND INLET TEMPERATURES

10-10-58

Paint

1 Recorder was still moving upward in temp. at the time the Chart was marked.

DL
PS
SAPS

DATE 10/11/58		BLANKET EXIT AND INLET TEMPERATURE																											
TIME 2230	2300	2330	0300	0700	0730	0800	0830	1100	1430	1500	1530	1600	1630	1700	1730	1800	1830	1900	1930	2000	2030	2100	2130	2200	2230	2300	2330		
POINT																													
1	506.0	506.5	506.0	504.9	504.0	504.0	504.0	504.0	506.0	506.0	506.0	506.0	506.0	506.0	506.0	506.0	506.0	506.0	506.0	506.0	506.0	506.0	506.0	506.0	506.0	506.0	506.0		
2	507.5	507.5	507.0	506.5	505.9	505.2	505.5	505.5	507.0	507.5	507.1	507.2	507.2	507.3	507.2	507.0	506.8	507.0	507.0	508.0	508.0	508.0	507.5	507.5	508.0	507.5	507.5		
3	505.0	505.5	505.5	505.5	507.0	507.0	507.5	507.5	507.5	506.0	505.4	505.4	505.3	505.0	505.0	504.5	504.5	504.5	504.5	506.0	506.0	506.0	506.0	507.0	507.0	507.4	507.9	507.0	
4	506.5	506.0	506.5	507.5	508.9	508.5	508.5	508.5	508.5	507.0	506.9	506.6	506.2	506.2	505.5	505.5	505.5	505.5	505.5	507.5	507.5	508.0	507.5	508.0	508.9	508.9	509.0	508.8	
5	499.0	498.5	499.0	499.0	500.0	500.0	500.0	500.0	500.0	499.0	498.9	498.5	498.3	498.0	498.0	497.5	497.2	497.1	498.0	497.5	500.0	500.0	500.0	500.0	500.0	501.0	500.5	500.5	501.0
6	507.0	507.5	507.0	507.0	509.0	509.0	508.8	508.8	509.5	508.5	508.0	507.6	507.4	507.5	507.2	507.2	506.8	506.0	507.0	506.9	508.0	508.0	508.9	509.0	509.0	509.9	509.9	510.0	509.9
7	512.0	512.0	512.5	512.2	514.0	514.0	514.0	514.0	514.0	513.0	512.8	512.7	512.7	512.5	512.3	511.9	511.7	511.5	512.0	512.0	513.0	513.0	513.5	513.5	513.5	514.2	514.2	514.4	514.5
8	508.0	508.0	508.0	508.0	508.9	508.9	508.8	508.8	508.5	508.5	508.5	508.5	508.5	508.5	508.5	508.5	508.5	508.5	508.5	508.5	508.5	508.5	508.5	508.5	508.5	509.0	509.0	509.0	509.0
9	522.0	522.0	522.5	523.9	524.9	524.9	524.5	524.5	524.5	523.0	523.1	523.2	523.0	521.5	520.8	521.0	520.2	521.0	521.0	522.0	522.5	523.0	523.0	523.0	523.0	523.0	523.0	523.0	523.0
10	511.5	511.5	511.5	512.0	513.0	513.0	513.0	513.0	513.0	512.0	511.2	511.0	510.8	510.5	510.5	510.2	510.0	510.0	510.5	510.5	511.5	511.5	512.0	512.0	512.0	513.0	513.0	513.0	513.0
11	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
12	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
13	505.0	506.0	505.5	509.5	503.5	502.5	503.5	503.5	504.0	505.0	506.1	506.5	505.0	506.5	506.5	506.5	505.0	505.0	505.5	509.5	504.6	504.5	504.5	505.0	504.8	505.0	505.0	504.9	
14																													

DL-S-225

4a

DL
PS
SAPS

TABLE IV

BLANKET EXIT AND INLET TEMPERATURE

DATE 10/10/58

11/11/58

TIME	2230	2300	2330	0300	0700	0730	0800	0830	1100	1430	1500	1530	1600	1630	1700	1730	1800	1830	1900	1930	2000	2030	2100	2130	2200	2230	2300	2330
33	486.5	486.5	487.0	486.5	485.0	485.1	484.5	485.3	486.0	487.0	487.2	487.4	486.6	487.0	487.3	487.0	487.5	487.0	487.3	487.0	486.5	486.3	486.5	486.9	487.3	487.2	486.8	
34	488.0	488.0	487.5	487.0	486.9	486.1	486.5	486.5	486.0	486.0	486.8	486.8	486.1	487.2	485.5	485.3	486.5	487.0	484.3	484.3	487.5	487.5	487.4	488.9	486.4	487.0	488.1	488.0
35	511.0	516.5	510.0	508.0	507.0	507.2	507.0	507.0	509.0	510.5	510.8	510.9	510.8	511.0	510.5	510.5	510.0	510.3	510.8	510.8	511.4	511.3	512.5	512.5	511.0	512.0	512.0	512.7
36	471.0	471.0	471.0	471.2	472.3	472.3	472.0	471.8	471.3	471.0	471.0	470.8	470.3	470.5	470.0	470.0	470.0	469.8	470.2	470.2	471.8	472.8	472.0	472.0	472.5	472.5	469.5	470.0
37	479.5	479.5	479.0	480.0	481.0	481.0	480.5	480.8	481.5	480.0	479.9	479.3	478.8	478.3	478.5	478.4	477.8	478.5	478.2	478.5	480.5	481.4	480.9	481.5	481.9	481.0	481.0	481.5
38	519.0	519.5	519.5	521.1	521.2	521.5	521.0	521.3	521.0	519.3	519.0	519.0	518.4	518.5	518.5	518.5	517.5	518.0	518.0	518.0	519.0	519.5	519.0	520.8	520.5	520.7	521.0	521.0

SEED EXIT WATER TEMPERATURE

DATE 10/10/58

11/11/58

TIME	2230	2300	2330	0300	0700	0730	0800	0830	1100	1430	1500	1530	1600	1630	1700	1730	1800	1830	1900	1930	2000	2030	2100	2130	2200	2230	2300	2330	
POINT																													
1	509.5	509.5	510.0	510.7	511.8	511.6	511.8	511.8	511.5	510.8	510.8	509.4	509.2	509.2	508.8	508.8	508.0	509.0	508.6	511.0	511.5	511.5	512.0	512.5	513.0	512.5	512.5	512.5	
2	500.0	500.0	500.5	501.0	501.8	501.9	502.0	501.8	502.0	501.0	501.0	500.9	500.0	500.0	500.0	499.0	499.0	499.0	499.0	500.6	501.4	501.4	501.4	502.0	502.3	502.0	502.5	502.0	
3	510.5	510.5	510.5	512.0	513.1	513.3	513.5	513.2	513.0	511.5	511.5	511.0	510.2	510.0	510.0	509.5	509.0	509.5	509.5	511.0	511.9	512.0	512.0	512.9	513.5	512.5	514.0	514.0	
4	457.5	457.5	457.0	457.7	457.6	458.3	457.5	457.5	457.0	457.0	457.0	457.0	457.3	457.3	457.0	456.3	456.5	457.0	457.0	457.0	457.8	457.5	457.0	457.0	458.3	459.0	458.5	459.0	
5	493.0	493.5	493.5	493.8	493.0	493.0	493.0	492.8	493.5	493.0	493.0	493.0	492.9	492.8	492.5	492.3	492.3	493.0	493.0	493.0	493.0	492.8	493.0	493.0	493.5	494.0	493.5	493.5	
6	516.0	516.5	516.5	515.3	514.1	514.2	514.0	514.0	514.5	515.0	516.0	516.0	515.5	515.8	516.0	515.8	515.5	516.2	516.3	514.6	514.0	514.0	513.5	514.0	515.0	515.0	515.0	515.0	
7	462.0	462.5	462.0	461.3	460.5	460.0	460.0	460.2	460.4	461.0	462.5	462.5	462.0	461.3	462.0	461.0	462.0	462.5	461.3	461.0	461.5	461.0	461.5	461.0	461.5	461.5	462.5	462.0	
8	461.0	466.0	464.5	463.2	462.0	461.8	461.5	462.0	463.0	464.2	464.8	464.5	464.9	464.5	465.0	464.5	464.3	464.3	465.0	464.0	464.0	464.5	463.5	463.0	463.8	463.5	464.2	464.0	
9	494.0	494.5	494.0	493.0	491.9	491.1	491.0	491.0	493.0	494.0	494.5	494.5	494.5	494.5	494.2	494.0	494.0	494.0	494.0	494.0	494.2	494.2	494.0	494.3	494.3	494.3	494.5	494.5	
10	509.0	509.5	508.5	506.2	505.1	505.2	505.2	505.2	507.0	508.8	509.5	509.8	509.2	509.2	509.2	509.0	508.5	509.0	509.0	509.0	509.6	510.0	510.0	509.5	509.5	509.3	509.0	509.0	
11	493.0	493.0	493.0	492.1	491.0	491.1	491.0	491.0	492.5	493.0	493.0	493.2	493.2	493.2	492.8	492.5	492.3	492.7	493.0	493.5	494.0	493.5	493.0	493.5	494.0	493.5	493.5	494.0	
12	462.5	462.0	463.0	461.0	461.4	461.0	460.5	460.0	462.0	464.0	463.2	463.0	463.8	463.5	463.2	462.0	463.0	463.8	463.0	462.5	465.0	464.5	462.5	463.0	463.0	462.3	462.3	463.5	
13	487.5	488.5	488.5	487.8	486.9	487.5	488.0	487.8	488.0	489.0	488.7	488.7	488.7	487.0	487.3	487.0	487.5	487.5	486.8	486.4	486.0	489.0	488.9	489.0	487.5	488.9	487.5	487.5	489.0
14	507.0	507.0	507.5	509.1	509.9	509.6	509.5	509.5	509.0	506.8	507.0	506.5	506.0	505.9	505.6	505.0	505.0	505.5	505.5	507.0	507.5	507.5	507.3	508.0	508.5	509.5	509.0	509.5	
15	493.0	493.0	493.0	494.0	494.3	493.7	494.0	493.8	493.5	492.8	493.0	492.6	492.0	492.3	492.0	492.0	491.3	492.0	492.0	492.7	493.0	492.5	492.5	493.0	493.3	493.5	494.0	494.0	
16	518.0	518.5	519.0	520.0	520.0	520.1	520.0	519.8	520.0	518.5	519.5	518.0	518.5	517.5	517.0	517.0	516.5	517.0	517.0	517.7	518.0	518.0	518.0	519.0	519.5	517.5	520.0	520.0	
17	516.5	516.5	516.5	513.9	513.0	513.2	513.0	513.2	515.0	516.5	517.0	517.0	516.9	516.9	516.8	516.5	516.3	516.5	516.5	517.0	517.5	517.0	516.9	517.0	517.0	516.5	516.0	516.0	
18	510.5	510.5	510.5	508.2	507.2	507.5	507.2	507.5	509.0	511.0	511.0	511.0	511.0	511.0	511.0	511.0	510.5	510.5	511.0	511.4	511.5	511.4	511.0	511.0	511.0	511.0	510.5	510.5	
19	513.0	513.0	512.5	510.3	509.2	509.2	509.2	509.2	511.0	513.0	513.0	513.0	513.0	512.7	513.0	512.5	512.8	513.0	513.0	513.4	513.0	513.0	512.6	513.0	512.5	512.3	512.5	512.5	
20	509.0	509.0	509.0	506.9	506.0	506.0	506.0	507.3	509.0	509.8	509.3	509.5	509.5	509.0	509.5	509.0	509.4	509.4	509.9	509.9	509.9	509.9	509.5	509.5	509.5	509.0	508.9	508.9	
21	513.0	512.5	512.5	510.8	510.1	510.0	510.0	510.0	511.5	512.9	513.0	513.0	512.8	512.8	512.8	512.5	512.3	512.5	512.6	513.5	513.4	513.5	513.5	513.5	513.5	513.3	513.0	513.0	
22	517.0	516.5	516.5	515.0	514.8	514.8	514.5	514.5	516.0	517.2	517.3	517.3	517.0	517.0	517.0	517.0	516.8	517.0	517.0	518.0	518.5	518.5	518.0	518.0	518.0	517.5	517.0	517.0	
23	509.0	509.5	509.0	507.6	515.0	515.0	515.0	515.0	509.3	509.2	509.8	509.5	509.5	509.5	509.5	509.0	508.7	509.0	509.0	510.0	510.5	510.5	510.0	510.5	510.3	510.0	510.0	509.5	
24	513.0	513.0	513.0	511.7	511.3	511.7	511.5	511.5	512.5	513.8	513.6	513.7	513.5	513.2	513.0	512.5	513.0	513.0	514.0	514.5	514.9	514.5	514.5	514.5	514.5	514.5	514.0	514.0	

10A

DL

COMPANY

REACTIVITY LIFETIME

P.S

DEPARTMENT

SARS

DIVISION

COMPILED BY Test Group

CHECKED BY

DATE 10-12-58

TABLE V

[illegible]

DL
PS
SAPSSUBJECT DL-5-225
COMPANY REACTIVITY LIFETIME

SHEET NO. 100

DEPARTMENT
DIVISION CHECKED BY CHECKED BY DATE

TABLE 1

DATE 10-12		BLANKET EXIT AND INLET TEMPERATURE																									
TIME	2400	0030	0100	0130	0200	0230	0300	0330	0400	0430	0500	0530	0600	0630	0700	0730	1100	1430	1500	1530	1600	1630	1700	1730	1800	1830	1900
33	487.0	486.5	486.5	485.5	485.5	486.5	486.5	486.5	486.5	486.5	486.5	486.0	486.5	486.0	486.0	487.0	487.0	487.5	487.0	487.2	487.5	487.0	488.0	488.1	487.5	487.0	486.9
34	486.0	488.0	486.0	485.0	486.0	486.0	487.0	486.5	486.0	486.5	486.5	484.5	487.0	485.0	487.2	487.0	486.5	487.9	488.0	488.6	489.0	489.0	489.0	490.0	489.0	489.0	489.0
35	509.5	508.5	508.0	508.0	507.0	507.5	508.0	508.0	507.5	507.0	507.0	507.0	507.5	507.5	507.5	508.0	510.0	510.5	511.0	511.0	511.0	511.0	511.5	511.2	511.2	510.5	510.9
36	469.5	469.5	470.5	472.0	470.5	472.0	472.5	472.5	471.5	471.0	471.0	471.0	471.5	471.5	471.5	471.5	471.5	472.5	472.0	472.0	472.0	472.9	472.9	472.5	472.5	472.1	472.0
37	482.0	480.5	480.5	481.0	480.5	481.0	481.0	481.0	481.0	481.0	480.5	480.5	480.0	481.0	481.0	480.5	480.6	480.7	481.0	480.5	480.5	480.6	480.5	480.1	481.0	480.1	480.0
38	521.5	521.0	520.5	521.0	520.5	521.5	522.0	522.5	522.0	522.0	522.0	521.5	522.0	522.0	522.5	522.4	520.0	519.0	518.0	518.0	517.5	517.9	518.0	518.0	518.0	518.0	518.8
DATE 10-12-58		SEED EXIT WATER TEMPERATURE																									
TIME	0000	0030	0100	0130	0200	0230	0300	0330	0400	0430	0500	0530	0600	0630	0700	0730	1100	1430	1500	1530	1600	1630	1700	1730	1800	1830	1900
POINT																											
1	512.5	511.4	510.5	510.5	510.0	510.0	510.0	510.0	509.0	509.0	509.5	509.5	509.5	509.5	510.0	510.5	511.5	510.9	510.4	510.0	510.0	510.0	510.8	510.2	510.5	510.4	510.5
2	502.5	501.5	501.3	501.3	501.0	501.0	501.0	501.5	501.0	501.0	500.5	500.5	501.0	501.0	501.0	501.0	501.2	501.5	501.2	501.0	500.5	501.0	501.2	501.0	501.0	501.0	501.1
3	514.0	514.0	512.9	512.5	511.9	512.0	512.5	512.5	512.0	510.0	511.5	511.5	512.0	512.0	512.0	512.0	512.5	512.5	512.0	511.4	511.1	511.6	512.0	511.8	511.8	511.8	511.9
4	459.0	459.0	458.0	457.5	457.5	458.5	458.5	458.5	458.5	458.5	458.3	458.3	459.0	459.0	459.0	458.0	458.0	457.8	458.0	457.6	458.0	458.0	458.0	458.0	457.2	457.5	457.5
5	493.5	493.5	493.0	493.0	492.0	492.0	493.0	493.0	493.0	493.0	493.0	493.0	493.0	493.0	493.0	493.0	493.5	493.5	492.5	492.7	493.5	493.5	493.4	493.8	493.4	493.3	492.9
6	514.9	514.9	514.5	514.5	514.5	514.5	515.0	515.5	515.5	515.0	515.0	515.0	515.5	515.5	515.0	515.5	515.2	514.5	514.2	513.5	513.6	513.9	514.0	514.5	514.0	514.1	514.2
7	481.0	481.0	481.0	481.0	481.0	481.0	481.0	481.0	481.0	481.0	481.0	481.0	481.0	481.0	481.0	481.0	481.5	482.2	483.0	482.0	482.0	482.1	482.0	481.5	481.4	480.9	481.3
8	484.0	483.0	483.2	482.5	482.0	483.5	483.5	483.5	483.5	483.0	483.0	483.0	483.0	483.0	483.0	483.0	484.0	484.5	484.0	483.7	483.9	484.0	484.0	484.0	484.0	484.2	483.4
9	494.5	493.5	492.8	492.5	492.3	492.3	492.3	492.3	492.3	492.0	492.0	492.0	492.5	492.5	492.5	492.8	493.5	494.0	494.0	493.5	493.4	493.5	494.0	494.0	493.8	493.7	493.2
10	507.5	507.0	506.5	505.9	505.4	505.5	505.4	505.4	505.4	505.0	505.0	505.5	505.5	505.5	506.0	506.0	508.3	509.0	509.5	509.2	509.1	509.0	509.5	509.5	509.1	509.0	509.0
11	492.2	492.5	491.5	491.8	491.0	491.5	491.8	491.5	491.5	491.3	491.3	491.0	491.0	491.3	492.0	492.0	492.5	492.0	494.0	494.0	493.8	493.8	493.9	493.8	493.7	493.5	492.8
12	462.3	461.5	462.5	461.2	460.0	461.6	462.5	462.5	462.5	463.0	460.5	460.5	460.5	461.0	461.5	461.5	463.0	464.5	464.0	465.0	464.0	463.1	462.2	462.5	461.6	462.6	461.9
13	488.0	489.0	487.0	486.0	487.0	487.0	487.0	486.5	486.5	487.0	487.0	488.0	487.0	488.0	487.0	488.0	488.0	488.5	489.5	489.5	489.5	490.0	491.0	490.2	489.9	490.0	489.9
14	509.4	509.2	508.6	508.5	508.5	509.5	509.5	509.5	509.5	509.4	509.5	509.0	509.5	509.5	509.5	509.5	508.0	506.8	506.5	506.1	505.0	505.3	505.8	506.0	505.8	506.2	506.2
15	494.5	493.5	493.5	493.5	493.5	494.0	494.0	494.0	494.0	494.0	494.0	494.0	494.0	494.0	494.0	494.0	494.5	494.5	494.5	494.5	494.5	494.5	494.5	494.5	493.3	493.2	493.4
16	520.0	519.5	519.5	519.4	519.0	520.0	520.5	520.5	520.5	520.5	520.5	520.5	520.5	520.5	520.5	520.5	519.0	517.0	517.0	516.3	516.1	516.1	516.9	516.8	516.7	516.8	517.3
17	515.5	514.5	514.0	513.9	513.2	513.5	513.6	513.5	513.5	513.0	512.8	512.5	513.0	513.0	513.5	514.0	515.5	517.0	516.9	516.5	516.5	516.5	516.9	516.9	516.5	516.5	516.5
18	510.0	509.0	508.5	508.3	507.5	507.9	508.0	508.0	508.0	507.5	507.4	507.0	507.5	508.0	508.0	508.0	511.0	511.5	511.1	511.0	510.6	511.0	511.1	511.0	510.8	510.6	510.3
19	511.5	510.5	510.0	510.0	509.5	509.5	510.0	510.0	510.0	509.0	509.0	509.0	509.5	509.8	510.0	510.0	511.8	513.0	512.8	512.4	512.0	512.3	512.0	512.6	512.4	512.4	512.4
20	508.4	507.5	507.0	506.9	506.0	506.2	506.5	506.5	506.5	506.0	506.0	506.0	506.5	506.5	506.5	506.5	506.8	508.0	510.0	509.5	509.8	510.0	510.2	510.0	509.9	509.5	509.4
21	512.3	511.8	510.5	510.5	509.5	509.5	510.0	510.0	510.0	509.5	509.5	509.5	509.5	510.0	510.0	510.0	510.5	512.0	513.5	513.2	514.6	515.7	516.5	516.8	516.0	515.6	514.9
22	516.8	515.5	515.0	514.9	514.0	514.0	514.3	514.3	514.3	513.5	513.5	513.0	514.0	514.2	514.2	514.5	516.5	518.0	517.5	517.5	517.5	518.0	518.2	518.2	518.0	517.8	517.2
23	509.0	508.5	507.5	507.5	506.8	507.0	507.5	507.5	507.5	506.4	506.5	506.3	507.0	507.3	507.3	507.5	509.0	510.5	510.1	510.9	511.4	512.0	512.1	512.0	512.0	511.0	510.8
24	513.0	512.5	511.5	511.5	510.5	511.0	511.0	511.3	511.3	510.5	510.5	510.0	510.5	510.5	511.0	511.3	512.0	514.5	514.0	513.9	513.9	514.0	514.2	514.2	514.5	514.0	513.8

DL-S-225 Section I

DL... Reactivity Lifetime

ps

SAPS

Post Group received on 10-12-58

TABLE I

Blanket Inlet and Exit Temperature

Date	10-12-58	10-12-58	10-12-58	10-12-58	10-12-58	10-12-58	10-12-58	10-12-58	10-12-58	10-12-58	10-12-58	10-12-58	10-12-58	10-12-58	10-12-58	10-12-58	10-12-58	10-12-58	10-12-58	10-12-58	10-12-58	10-12-58	10-12-58	10-12-58	10-12-58	10-12-58	10-12-58	10-12-58
Time	1930	2000	2030	2100	2300	0300	0330	0700	0930	0500	0530	0600	0630	0700	0730	1300	1330	1400	1430	1500	1530	1600	1630	1700	1730	1800	1830	1900
Point																												
1	507.1	507.0	506.9	506.3	505.0	504.0	503.9	503.7	503.9	503.8	504.0	503.9	504.0	504.5	506.0	505.5	505.5	506.0	506.0	506.0	506.4	506.5	505.5	506.5	506.5	506.3	506.0	506.0
2	509.5	509.2	509.9	508.5	507.0	505.5	505.3	505.2	505.2	505.1	505.4	505.3	506.0	507.8	507.5	507.5	507.5	507.5	508.0	508.0	508.0	507.5	508.0	508.0	508.0	507.0	507.0	507.0
3	506.5	506.2	506.2	506.5	506.4	507.0	506.5	506.1	506.6	506.4	506.5	506.5	507.0	507.0	505.5	505.5	505.5	506.0	506.0	506.0	506.0	505.5	506.5	506.5	506.5	506.5	506.5	506.5
4	507.2	507.2	507.4	507.3	507.3	507.9	507.3	507.1	507.5	507.3	507.0	507.2	507.0	508.0	508.0	507.0	507.0	507.0	506.5	507.0	507.0	507.0	506.8	507.5	507.3	507.9	507.0	506.7
5	500.0	499.5	500.0	499.6	499.3	500.0	499.5	499.0	499.5	499.5	499.3	499.0	499.0	500.0	500.0	499.5	499.0	499.0	498.5	499.0	499.5	499.5	499.5	500.0	499.9	500.0	499.7	499.7
6	510.1	509.7	510.0	509.8	509.6	509.4	509.0	508.6	509.0	509.0	508.7	508.9	508.9	509.3	509.0	508.5	508.0	508.0	507.5	508.5	508.5	508.2	507.8	508.5	508.5	508.5	508.0	508.0
7	515.1	514.9	515.0	514.8	514.0	513.8	513.5	513.0	513.5	513.2	513.0	513.0	513.0	508.0	514.0	513.0	512.5	512.5	512.5	513.0	513.5	510.9	512.8	513.4	513.5	513.5	513.0	513.0
8	510.2	509.9	509.9	510.0	509.2	509.1	508.9	508.7	509.0	508.7	508.8	508.5	508.6	509.0	509.0	508.0	507.5	507.5	507.0	507.5	508.0	507.4	507.4	508.0	508.0	508.5	507.5	508.0
9	523.0	523.5	523.9	523.3	523.4	524.0	523.5	523.2	423.7	523.9	523.5	523.5	523.5	523.5	524.0	523.0	523.0	522.5	522.0	523.0	523.0	522.5	523.0	523.5	523.5	524.0	523.0	523.0
10	513.0	513.0	513.0	513.0	512.6	512.5	512.2	512.0	512.2	512.1	512.2	511.9	512.0	512.0	512.3	511.0	511.0	511.0	510.5	511.5	511.5	510.9	511.2	511.5	512.5	512.0	511.0	511.0
11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	505.5	505.8	505.9	506.1	504.5	504.5	504.1	504.0	504.1	504.0	504.0	504.0	504.0	504.0	504.0	505.0	504.5	504.5	505.0	505.0	506.0	506.0	506.0	505.5	506.0	506.0	505.0	504.5
14	497.8	497.5	497.8	497.8	495.5	495.5	495.0	494.9	495.2	494.8	495.0	495.0	495.0	495.0	495.0	495.5	495.5	497.0	497.0	498.0	498.0	498.0	497.5	498.1	498.1	499.1	496.2	495.0
15	501.8	501.7	502.0	501.8	499.9	499.3	499.0	498.6	498.9	498.9	498.9	498.9	498.8	499.0	500.3	500.0	500.0	501.0	501.0	502.0	502.0	502.0	501.0	502.1	502.0	501.0	500.9	497.9
16	509.0	509.3	509.5	509.2	509.0	509.0	508.9	508.4	508.7	508.7	508.6	508.4	508.5	508.5	509.0	508.5	508.0	508.5	508.0	509.0	509.0	509.0	508.5	509.2	509.2	508.7	509.0	508.1
17	513.9	513.9	514.0	514.0	512.2	511.6	511.2	511.0	511.0	511.0	511.0	511.0	511.0	511.0	511.0	513.0	512.5	512.5	513.5	513.5	514.0	514.0	514.5	513.6	514.5	514.5	513.5	513.2
18	504.5	504.5	504.9	504.5	504.1	504.5	504.0	503.8	504.0	504.0	504.0	503.8	504.0	503.5	504.3	503.5	503.5	503.0	503.0	503.5	503.5	503.5	503.0	504.0	504.0	504.0	504.0	503.0
19	443.1	443.0	443.0	442.9	442.1	442.6	442.5	442.5	442.5	442.5	442.5	442.5	442.5	442.5	443.0	443.0	443.0	443.0	443.0	443.0	443.5	443.0	443.0	443.5	443.5	443.5	443.5	442.1
20	506.5	506.5	506.5	507.0	507.0	507.1	507.0	507.0	507.0	507.0	507.0	507.0	507.0	507.0	507.0	505.5	505.5	505.5	505.5	506.5	506.0	506.0	505.5	506.5	506.5	506.5	506.5	505.2
21	502.6	502.6	502.3	502.1	501.9	500.5	500.1	500.0	500.1	500.0	500.0	500.0	500.0	500.0	500.0	500.5	500.5	500.0	500.0	500.5	501.0	501.0	500.9	501.1	501.1	501.1	501.2	502.0
22	502.8	502.7	502.8	502.8	502.0	501.5	501.5	501.1	501.3	501.3	501.5	501.3	501.5	502.0	503.0	502.5	502.5	502.5	502.0	502.5	502.9	502.0	502.3	503.0	503.0	503.0	503.0	501.5
23	494.5	494.5	494.1	494.0	493.5	493.7	493.5	493.0	493.7	493.2	493.7	493.2	493.2	493.3	493.0	493.0	493.0	493.0	493.0	493.0	493.0	493.0	493.0	493.2	493.2	493.5	493.0	492.0
24	506.5	506.3	506.1	506.5	506.2	505.8	505.1	505.0	505.4	505.0	505.3	505.1	505.8	506.0	505.3	506.0	506.0	506.0	506.0	506.5	506.5	506.5	506.4	506.8	506.5	506.5	506.5	505.5
25	505.4	505.2	505.5	505.2	504.8	504.2	504.0	504.1	504.1	504.2	503.9	504.1	504.5	505.0	504.5	504.5	504.5	504.0	505.0	505.0	505.0	505.0	505.0	505.0	505.0	505.0	505.0	504.5
26	508.2	508.1	508.0	508.5	508.0	507.7	507.5	507.0	507.5	507.2	507.3	507.0	507.2	508.0	508.0	507.5	507.5	507.5	507.5	508.0	508.2	508.0	508.2	508.5	508.5	508.5	508.5	507.5
27	431.4	431.2	431.2	431.0	430.5	429.6	429.7	429.5	429.5	429.5	429.4	429.5	429.4	429.5	431.0	431.0	431.5	431.5	431.0	431.0	431.0	431.0	431.0	431.8	431.3	432.0	432.0	431.1
28	486.5	486.8	486.8	487.0	486.8	487.1	487.0	486.5	486.5	486.5	486.5	486.5	486.5	487.0	486.8	486.0	486.0	486.0	486.0	486.0	486.0	486.0	486.0	486.0	486.0	486.0	486.0	486.0
29	485.9	485.7	486.0	486.0	486.0	485.9	485.5	485.8	485.6	485.6	485.6	485.6	486.0	486.0	485.5	485.5	485.5	485.5	485.5	485.5	485.5	485.5	485.5	486.0	486.0	486.0	485.5	485.5
30	484.2	484.2	484.5	484.7	484.2	484.3	484.0	483.8	484.0	483.9	484.0	483.6	483.8	484.5	484.5	484.0	484.0	484.0	484.0	484.0	484.0	484.0	484.0	484.5	484.5	484.5	483.9	483.9
31	486.0	486.1	486.1	486.1	486.0	485.9	485.5	485.7	485.6	485.6	485.4	485.4	486.0	486.0	486.0	486.0	486.0	486.0	486.0	486.0	486.0	486.0	486.0	486.0	486.0	486.0	485.5	485.7
32	487.2	487.3	487.2	487.5	487.2	487.3	487.0	486.5	486.9	486.9	486.9	486.9	486.9	487.0	487.0	486.5	486.5	487.0	487.0	487.0	487.0	487.0	487.0	487.0	487.0	487.0	487.0	487.0

Reactivity Lifetime

DL

PS

SAPS

Test Group

10-12-58

TABLE V

Blanket Exit and Inlet Temperature

[illegible]

Seed Exit Water Temperature

Att. 10-12-58 10-12

10-12 10-11-58

Time	1930	2000	2030	2100	2300	0300	0330	0400	0430	0500	0530	0600	0630	0700	1100	1300	1330	1400	1430	1500	1530	1600	1630	1700	1730	1800	1830	1900	
Print																													
1	510.2	510.9	510.8	511.0	510.0	510.0	509.5	509.0	509.5	509.5	509.5	510.0	510.0	510.5	511.5	511.0	511.0	511.0	510.5	511.5	512.0	511.8	511.5	511.5	511.8	512.0	511.8	511.5	
2	501.1	501.0	501.0	501.1	501.0	501.0	501.0	500.5	500.5	500.5	500.5	501.0	501.0	501.0	501.0	501.0	501.0	500.5	501.5	501.5	501.2	501.2	501.2	501.2	501.2	501.2	501.0	501.0	
3	512.0	512.6	512.5	512.5	512.0	512.5	512.5	512.0	512.0	512.0	512.0	512.5	512.5	512.5	512.0	511.0	512.0	511.5	511.5	512.0	512.0	512.3	512.2	512.6	512.0	512.4	512.5	512.5	
4	457.5	457.5	457.5	457.5	457.8	458.0	458.0	457.5	457.5	457.0	457.5	457.5	458.0	457.0	457.0	456.3	456.5	456.5	456.0	456.0	456.5	456.7	456.7	456.5	457.0	456.5	456.9	457.0	
5	492.9	493.2	493.2	493.2	493.0	494.0	494.0	493.5	493.5	493.5	493.5	493.5	493.5	493.5	493.0	492.0	492.0	492.0	492.3	492.3	492.5	492.5	492.2	492.2	492.5	492.8	492.5	492.0	
6	514.5	514.7	515.0	515.0	515.0	515.5	515.5	515.0	515.0	515.5	515.5	515.5	515.5	515.5	515.5	515.5	515.0	514.0	513.5	513.5	513.5	514.0	515.0	514.5	514.2	514.8	515.0	514.5	
7	481.5	481.3	481.0	481.0	481.5	481.0	480.5	480.5	480.5	480.5	481.0	480.5	480.5	481.0	481.5	480.5	480.5	480.5	480.5	480.3	481.0	481.0	480.8	481.0	481.2	481.3	481.0	481.5	
8	483.9	483.9	483.9	483.7	483.2	483.0	483.0	482.5	482.5	482.5	482.5	482.5	483.0	483.0	483.5	482.5	483.0	483.0	483.0	483.0	483.0	483.5	483.5	483.3	483.5	483.0	483.5	483.3	
9	493.5	493.9	493.9	493.9	493.0	492.5	492.5	492.5	492.0	492.0	492.5	492.5	492.5	492.5	493.0	493.5	493.0	494.0	494.0	494.0	494.5	494.0	494.5	494.5	494.5	494.5	494.8	494.0	
10	509.1	509.0	509.0	508.4	507.0	506.0	505.5	505.5	505.5	505.5	505.5	505.5	505.5	505.5	505.5	505.5	505.5	505.5	505.5	505.5	505.5	505.5	505.5	505.5	505.5	505.5	505.5	505.5	
11	493.0	492.8	492.6	492.9	492.5	491.0	491.0	491.0	491.0	491.0	491.0	491.0	491.0	491.0	491.0	491.0	491.0	491.0	491.0	491.0	491.0	491.0	491.0	491.0	491.0	491.0	491.0	491.0	
12	461.5	461.6	462.2	460.0	459.5	458.0	459.0	458.0	457.5	457.5	457.5	459.5	458.5	458.5	461.0	461.0	460.0	460.0	459.5	461.0	461.0	460.5	460.5	460.5	460.2	460.5	460.5	461.0	
13	490.0	489.4	488.9	489.0	488.0	487.5	487.0	486.5	486.5	487.0	486.5	487.0	487.0	486.5	488.0	488.0	488.5	488.5	488.5	488.0	489.0	489.0	489.0	489.0	489.0	489.0	489.0	489.0	
14	506.5	507.0	507.1	507.6	508.9	510.5	510.0	510.0	510.0	510.0	509.5	510.0	510.5	510.0	508.0	506.2	506.0	506.0	505.5	506.0	506.5	506.5	506.2	506.5	506.8	507.2	507.2	507.4	
15	493.9	493.6	493.6	493.1	493.9	494.5	494.5	494.5	494.5	494.5	494.5	494.5	494.5	494.0	494.0	492.8	491.5	492.0	491.5	492.0	492.0	492.0	492.0	492.0	492.0	492.0	492.0	492.0	
16	517.9	518.2	518.2	519.0	519.5	521.5	521.5	521.0	521.5	521.0	520.5	520.5	520.5	521.0	518.5	516.5	517.0	516.5	516.0	517.0	517.0	517.0	517.0	517.0	517.0	517.0	517.0	517.0	
17	516.5	516.7	516.2	516.7	515.0	513.5	513.0	512.5	513.0	513.0	513.0	513.0	513.5	513.5	514.0	516.0	516.5	517.0	517.0	517.5	517.5	517.5	517.8	517.7	517.8	517.3	517.0	516.0	
18	510.4	510.7	510.2	510.2	509.1	507.5	507.5	507.0	507.5	507.5	507.5	507.5	507.5	507.5	512.5	513.5	513.5	510.0	510.3	510.5	510.5	510.5	511.0	511.0	511.5	511.5	511.2	511.0	
19	512.5	512.5	512.3	512.2	511.0	510.0	509.5	509.5	509.5	509.5	509.5	509.5	509.5	509.5	512.0	512.3	512.5	512.5	512.5	513.0	513.0	513.2	513.5	513.5	513.4	513.3	513.0	512.5	
20	509.6	509.4	512.0	509.7	507.5	506.0	506.0	505.5	505.5	505.5	506.0	506.0	506.0	506.0	508.0	508.5	509.0	508.5	508.5	508.5	509.5	509.5	509.8	509.8	509.8	509.8	509.3	509.3	
21	514.9	514.7	514.0	513.8	511.5	510.0	509.5	509.5	509.5	509.5	509.5	509.5	509.5	509.5	512.5	512.5	513.0	513.0	513.5	513.5	513.0	513.8	513.8	513.8	513.8	513.5	513.0	513.0	
22	517.9	517.6	517.2	517.0	516.0	514.3	514.0	513.5	514.0	514.0	514.0	514.0	514.5	514.5	517.0	517.5	518.0	518.0	517.8	518.5	518.5	518.7	518.8	518.8	518.8	518.3	518.0	517.7	
23	510.5	510.5	509.9	509.5	508.0	506.5	506.5	506.5	506.5	506.5	506.5	506.5	506.5	507.0	509.0	509.0	509.5	509.5	509.5	510.0	510.5	510.6	510.5	510.4	510.5	510.5	511.0	511.2	
24	514.0	514.1	513.8	513.8	512.1	510.5	510.5	510.0	510.3	510.5	510.5	511.0	511.5	511.5	512.5	513.9	514.0	514.0	514.0	514.5	515.0	514.8	514.8	514.8	514.8	514.8	515.0	514.2	514.2

DL
PS
SAPS

SUBJECT DL-S-225 SHEET NO. 12
COMPANY REACTIVITY
DEPARTMENT LIFETIME
DIVISION TEST GROUP CHECKED BY DATE 10-13-58

TABLE II

	BLANKET INLET AND EXIT TEMPERATURE																								
DATE	10-13-58	10-13-58	10-13-58	10-14	10-14	10-14	10-14	10-14	10-14	10-14	10-14	10-14	10-14	10-14	10-14	10-14	10-14	10-14	10-14	10-14	10-14	10-14	10-14	10-14	
TIME	1930	2000	2300	0200	0230	0300	0330	0400	0430	0500	0700	1030	1100	1130	1200	1230	1300	1330	1400	1430	1500	1530	1600	1630	
POINT																									
1	506.0	506.1	505.0	504.5	502.5	503.5	502.5	502.5	503.5	504.0	505.0	505.5	506.5	506.0	506.5	506.9	506.5	505.5	506.5	506.5	505.5	506.0	505.0	504.8	504.5
2	507.1	507.9	506.3	505.0	505.0	506.0	506.5	505.0	505.5	505.0	507.0	506.5	507.5	507.5	508.0	508.2	508.0	509.0	508.0	508.0	507.0	506.5	506.2	507.0	506.5
3	506.9	507.2	507.0	507.0	506.5	506.5	506.5	506.5	506.5	506.5	507.5	506.5	507.0	506.5	506.5	506.5	506.5	505.0	506.0	507.5	507.5	507.8	507.8	506.5	506.5
4	506.9	508.0	508.0	507.5	507.5	507.5	507.5	507.5	507.5	507.5	508.5	507.0	507.5	507.0	507.5	507.5	507.0	506.0	507.0	508.5	508.5	509.0	508.8	507.5	507.0
5	500.0	500.9	500.0	499.5	499.5	499.5	499.5	499.5	499.5	499.5	500.0	499.5	500.0	499.5	500.0	499.5	499.5	499.0	500.5	501.0	501.0	501.0	501.0	500.0	500.0
6	508.9	509.5	508.9	509.0	508.5	509.0	509.0	508.5	508.5	508.5	509.5	509.0	509.0	508.5	508.5	508.0	508.0	509.0	508.5	509.5	510.0	510.0	510.0	509.0	508.5
7	513.5	514.0	513.6	513.0	512.5	512.0	512.0	512.0	512.5	512.5	514.5	513.0	514.0	513.5	513.5	513.0	513.0	512.5	512.0	514.0	514.0	514.0	514.0	514.0	512.5
8	509.0	509.0	509.0	508.5	508.5	508.5	508.5	508.5	508.5	508.5	509.0	509.0	508.5	508.5	508.5	508.5	508.5	509.0	509.0	509.0	509.0	509.0	508.5	508.0	507.5
9	523.9	518.9	524.0	523.5	523.5	523.5	524.0	523.0	523.0	524.0	522.5	523.0	523.5	523.5	523.0	522.5	522.0	522.0	522.5	522.5	522.5	522.5	522.5	522.0	522.0
10	512.0	512.0	512.2	512.0	512.0	512.0	512.0	512.0	511.5	511.5	512.0	510.5	511.5	511.5	511.5	511.5	510.5	510.0	510.0	511.5	513.0	513.0	512.8	512.0	511.5
11	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
12	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
13	509.5	505.0	505.1	504.0	503.5	503.5	503.5	503.5	503.5	503.5	504.5	504.0	505.0	505.5	505.0	505.5	505.5	505.5	505.0	505.0	505.0	505.0	504.5	504.0	503.5
14	496.0	496.0	497.2	499.0	494.5	499.5	499.5	495.0	494.5	494.5	495.0	494.5	495.5	496.0	496.0	497.1	497.5	496.5	496.5	496.5	496.0	495.5	495.5	494.5	494.5
15	500.0	500.0	500.7	498.5	498.5	498.5	498.5	498.5	498.5	498.5	499.5	499.5	500.5	500.5	500.5	501.1	501.5	501.0	501.0	500.5	500.0	500.0	499.5	499.5	499.5
16	508.2	509.0	509.5	508.5	508.5	508.5	508.5	508.5	508.5	508.5	509.0	509.0	509.0	508.5	508.5	508.9	508.5	508.0	507.5	507.5	509.0	509.3	509.0	508.5	508.0
17	512.1	513.0	513.0	511.0	510.5	511.0	511.0	511.0	511.0	511.0	512.0	512.0	513.5	513.0	513.5	514.0	514.0	513.5	513.0	512.5	513.0	512.0	512.0	511.5	511.5
18	503.5	504.2	504.5	504.0	504.0	504.0	504.0	504.0	504.0	504.0	504.0	504.0	504.0	504.0	504.0	504.0	504.0	504.0	504.0	504.0	504.0	504.0	504.0	504.0	504.0
19	493.5	493.9	493.7	493.0	493.5	493.5	493.5	493.5	493.5	493.5	493.5	493.5	493.5	493.5	493.5	493.5	493.5	493.5	493.5	493.5	493.5	493.5	493.5	493.5	493.5
20	505.5	506.9	507.2	507.0	507.0	507.0	507.0	507.0	507.0	507.0	507.0	507.0	507.0	507.0	507.0	507.0	507.0	507.0	507.0	507.0	507.0	507.0	507.0	507.0	507.0
21	500.9	501.0	500.9	500.0	500.0	500.0	500.0	500.0	500.0	500.0	500.0	500.0	500.0	500.0	500.0	500.0	500.0	500.0	500.0	500.0	500.0	500.0	500.0	500.0	500.0
22	502.5	502.5	502.6	501.5	501.5	501.5	501.5	501.5	501.5	501.5	501.5	501.5	501.5	501.5	501.5	501.5	501.5	501.5	501.5	501.5	501.5	501.5	501.5	501.5	501.5
23	493.0	494.0	493.8	493.0	493.0	493.0	493.0	493.0	493.0	493.0	493.0	493.0	493.0	493.0	493.0	493.0	493.0	493.0	493.0	493.0	493.0	493.0	493.0	493.0	493.0
24	506.0	506.3	506.0	505.0	505.0	505.0	505.0	505.0	505.0	505.0	506.0	506.0	506.0	506.0	506.0	506.0	506.0	506.0	506.0	506.0	506.0	506.0	506.0	506.0	506.0
25	505.0	505.0	504.8	504.0	504.5	504.0	504.0	504.0	504.0	504.0	504.0	504.0	504.0	504.0	504.0	504.0	504.0	504.0	504.0	504.0	504.0	504.0	504.0	504.0	504.0
26	507.7	508.2	508.0	507.5	507.5	507.0	507.5	507.0	507.5	507.0	508.0	507.5	508.0	508.0	508.5	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0
27	431.2	431.9	431.8	430.5	430.0	430.0	430.0	430.0	430.0	430.0	429.5	431.0	431.0	432.0	432.0	432.0	432.0	432.0	432.0	432.0	432.0	432.0	432.0	432.0	432.0
28	486.0	486.5	487.5	486.5	486.0	486.5	486.5	486.5	486.5	486.5	487.0	486.0	486.5	487.0	487.0	486.1	486.5	486.0	486.0	487.5	487.0	487.3	486.5	486.0	486.0
29	485.5	486.1	486.0	486.0	485.5	485.5	486.0	486.0	486.0	486.0	486.5	486.0	486.5	486.0	486.5	486.5	486.5	486.5	486.5	486.5	486.5	486.5	486.5	486.5	486.5
30	484.0	484.9	484.8	484.0	484.0	484.0	484.0	484.0	484.0	484.0	484.0	484.0	484.0	484.0	484.0	484.0	484.0	484.0	484.0	484.0	484.0	484.0	484.0	484.0	484.0
31	486.0	486.2	486.0	485.5	485.5	485.5	485.5	485.5	485.5	485.5	486.0	485.5	486.5	487.0	486.1	486.5	486.5	486.5	486.5	486.5	486.5	486.5	486.5	486.5	486.5
32	487.0	487.9	487.7	487.0	486.5	487.0	487.0	487.0	487.0	487.0	487.0	487.0	487.0	487.0	487.0	487.0	487.0	487.0	487.0	487.0	487.0	487.0	487.0	487.0	487.0

10W

12a

Reactivity Lifetime

SAPS

DATE 10-13-58 20

TABLE V

Blanket Exit and Inlet Temperature

[illegible]

SEED EXIT TEMPERATURE

[illegible]

108

54211 NO. 19

Call 800-451-4517

Reactivity LIFETIME

P.S.

S.A.P.S.

יבחי'ת

COMPILED BY TAT OR OVP CHECKED BY _____ DATE 10-14-58

DATE 10-14-58

TABLE V

[illegible]

SUBJECT DL-5-225 SHEET NO. 13a

DL

COUNTRY

Reactivity Lifetime

PS

DEPARTMENT

SAPS

DIVISION

FORWARDED BY

CHECKED BY

DATE 10-14-58

TABLE V

		Blanket Inlet and Exit Temperature																															
Date		10-14	10-14	10-14	10-14	10-14	10-14	10-14	10-14	10-14	10-15											10-15											
Time		1900	1930	2000	2030	2100	2130	2200	2230	2300	2330	2400	2430	0100	0130	0200	0230	0300	0400	0500	0600	0700	0800	0930	0900	0930	1000	1030	1100				
33	476.6	487.0	487.5	487.5	487.0	487.5	487.5	487.5	487.5	487.5	487.5	487.5	487.5	487.5	487.5	487.5	487.5	487.5	487.5	487.5	487.5	487.5	487.5	487.5	487.5	487.5	487.5	487.5					
34	474.3	484.1	484.5	484.5	484.0	484.5	487.5	487.6	488.0	487.5	487.0	486.1	488.5	488.5	488.5	488.0	489.5	488.0	486.5	488.5	489.0	485.5	487.8	488.0	488.0	486.5	488.5	488.0	487.0				
35	507.5	508.0	510.0	510.5	510.5	510.5	510.0	509.0	509.0	509.0	509.0	509.0	509.5	510.0	510.0	510.0	510.0	511.0	510.0	510.0	511.0	510.5	510.0	510.2	510.0	510.0	510.0	510.0	510.0				
36	471.0	472.5	472.5	472.5	472.0	472.5	472.0	472.0	472.0	471.5	471.5	471.2	471.5	472.0	472.0	472.0	472.0	472.0	471.0	471.5	471.5	471.2	471.3	471.0	471.0	469.0	470.0	470.0	469.0				
37	480.5	481.0	481.5	481.5	481.5	481.5	481.5	481.0	480.5	479.5	480.1	480.0	480.5	481.5	481.5	481.5	481.5	481.5	481.5	481.5	480.9	481.0	480.8	481.0	481.0	481.0	481.0	481.0	480.7				
38	520.5	521.5	521.5	522.0	522.0	522.5	522.5	521.5	521.0	520.9	520.5	520.5	521.0	521.5	521.5	521.5	522.0	522.0	520.5	521.5	521.0	520.7	520.2	520.0	520.0	520.0	520.0	520.0	519.6				
		Seed Exit Temperature																															
Date		10-14	10-14	10-14	10-14	10-14	10-14	10-14	10-14	10-14	10-14	10-15											10-15										
Time		1900	1930	2000	2030	2100	2130	2200	2230	2300	2330	0000	0030	0100	0130	0200	0230	0300	0400	0500	0600	0700	0800	0930	0900	0930	1000	1030	1100				
Point																																	
1	510.2	512.5	512.8	512.6	512.5	512.8	512.8	512.8	511.6	511.0	510.6	511.0	511.7	512.0	512.0	512.0	512.0	512.0	512.0	512.0	512.5	511.5	511.5	512.0	512.0	512.0	512.0	512.0					
2	500.5	502.5	502.6	502.6	502.5	502.4	501.5	501.3	501.2	500.7	501.0	501.2	501.5	501.6	501.8	501.6	501.5	501.5	501.5	501.9	501.5	501.1	501.1	501.5	501.5	501.5	501.5	501.5					
3	511.8	514.0	514.2	514.2	514.0	513.9	512.5	512.2	511.8	511.8	512.0	512.1	512.5	512.5	512.5	513.0	512.5	513.0	513.0	513.0	512.9	512.0	512.0	512.0	512.0	512.5	512.5	513.5					
4	457.2	458.0	457.5	457.0	458.8	458.5	458.3	458.6	458.1	457.5	457.5	458.2	458.8	458.5	458.5	458.5	458.5	458.5	458.5	458.5	458.5	457.5	457.5	457.9	457.5	457.9	458.0	457.2					
5	472.8	474.5	474.5	474.4	474.5	474.6	473.8	473.5	474.5	473.3	473.3	473.5	474.0	474.0	474.4	474.5	474.5	474.3	474.0	474.0	473.8	473.5	473.0	473.7	473.0	473.0	473.0	473.0					
6	514.1	516.8	516.7	516.8	516.8	517.0	516.1	515.5	515.5	514.8	515.5	515.5	516.0	516.0	516.3	516.3	516.5	516.3	516.3	516.3	516.0	515.0	515.0	515.0	515.0	515.0	515.0	514.5					
7	481.5	482.8	482.9	483.2	482.9	483.4	482.4	482.9	481.7	481.5	481.0	482.0	482.5	482.0	482.3	482.3	482.3	482.3	482.3	482.3	481.8	481.5	481.2	481.2	481.1	481.1	481.5	482.0					
8	483.0	484.5	484.7	483.7	484.4	484.2	484.0	483.8	483.8	483.5	483.5	484.2	484.0	484.2	484.0	484.0	484.0	484.0	484.0	484.0	483.5	484.0	483.1	483.9	483.0	483.0	483.0	483.5					
9	472.5	474.5	474.6	474.3	474.7	474.6	474.0	473.9	473.9	473.3	473.2	472.3	473.8	474.0	474.0	474.0	474.0	474.0	474.0	474.0	474.2	474.5	474.0	473.9	473.5	473.5	473.0	473.5					
10	506.5	509.0	509.4	508.9	509.1	509.3	508.4	508.0	507.6	507.3	507.5	507.5	508.0	508.5	508.5	508.5	508.5	508.5	508.5	508.5	508.5	508.5	508.5	508.5	508.5	508.5	508.5	508.5					
11	471.5	473.2	473.7	473.8	474.1	473.9	473.5	472.8	472.4	472.2	472.5	473.0	473.3	473.3	473.3	473.3	473.3	473.3	473.3	473.3	473.3	473.3	473.3	473.3	473.3	473.3	473.3	473.3					
12	461.5	462.8	462.8	464.0	463.8	462.7	462.2	464.5	463.2	461.8	460.5	461.0	460.5	463.0	460.2	462.0	462.0	462.0	462.0	462.0	462.0	462.0	462.0	462.0	462.0	462.0	462.0	462.0					
13	487.5	489.5	489.3	489.3	489.4	489.4	489.0	488.9	488.2	488.5	488.5	489.0	489.5	489.0	489.0	489.0	489.0	489.0	489.0	489.0	489.0	489.0	489.0	489.0	489.0	489.0	489.0	489.0					
14	508.1	510.8	510.9	510.5	510.8	510.7	510.0	509.3	509.0	508.7	508.5	509.0	509.5	509.3	509.3	509.3	509.3	509.3	509.3	509.3	509.3	509.3	509.3	509.3	509.3	509.3	509.3	509.3					
15	472.1	474.8	475.2	474.9	474.9	474.9	474.0	474.0	473.5	473.5	474.0	474.3	474.8	474.8	474.8	474.8	474.8	474.8	474.8	474.8	474.8	474.8	474.8	474.8	474.8	474.8	474.8	474.8					
16	518.1	521.0	521.1	521.1	521.2	521.1	520.4	520.0	519.8	519.0	519.5	520.0	520.0	520.3	520.3	520.0	520.0	520.0	520.0	520.0	519.8	519.8	518.5	518.8	518.8	518.8	518.8	518.0					
17	513.9	516.5	516.6	516.3	516.5	516.5	515.8	515.2	515.0	515.0	515.0	515.4	515.5	516.0	516.0	516.0	516.0	516.0	516.0	516.0	516.0	516.0	516.0	516.0	516.0	516.0	516.0	516.0					
18	508.4	510.5	511.1	511.0	511.1	511.0	510.2	509.9	509.6	509.5	509.5	509.9	510.0	510.0	510.5	510.5	510.5	510.5	510.5	510.5	510.5	510.5	510.5	510.5	510.5	510.5	510.5	510.5					
19	510.1	512.5	512.5	513.5	512.9	512.8	511.8	511.5	511.2	511.0	511.5	511.5	512.0	512.0	512.0	512.0	512.0	512.0	512.0	512.0	512.0	512.0	512.0	512.0	512.0	512.0	512.0	512.0					
20	506.5	509.0	509.1	508.4	509.4	508.7	508.0	507.7	507.7	508.0	508.0	509.0	509.0	509.0	509.0	509.0	509.0	509.0	509.0	509.0	509.0	509.0	509.0	509.0	509.0	509.0	509.0	509.0					
21	510.4	512.8	512.9	512.1	512.9	513.0	512.0	512.0	511.6	511.8	512.5	512.8	513.5	513.5	513.5	513.5	513.5	513.5	513.5	513.5	513.5	513.5	513.5	513.5	513.5	513.5	513.5	513.5					
22	515.1	517.0	517.4	518.0	517.5	517.4	516.5	516.2	516.0	515.8	516.0	516.1	516.5	517.0	517.0	517.0	517.0	517.0	517.0	517.0	517.0	517.0	517.0	517.0	517.0	517.0	517.0	517.0					
23	508.1	511.0	510.4	510.8	511.2	510.6	509.5	509.3	508.9	509.0	509.0	509.5	509.5	509.5	509.5	509.5	509.5	509.5	509.5	509.5	509.5	509.5	509.5	509.5	509.5	509.5	509.5	509.5					
24	511.5	514.0	513.9	514.2	514.0	514.0	513.0	512.7	512.4	512.3	512.5	512.8	513.1	513.4	513.5	513.5	513.5	513.5	513.5	513.5	513.5	513.5	513.5	513.5	513.5	513.5	513.5	513.5					

DATE 10/15/10/15/10/15/10-16 10-16 10-16 10-16 10-16 10-17 10-18 10-17 10-17 10-17 10-17 10-18 10-18 10-18 10-18 10-18 10-18 10-19 10-19 10-19 10-19 10-19 10-19 10-19 10-20
 TIME 1500 1900 2300 0300 0700 1100 1500 1900 2300 0300 0700 1100 1500 1900 2300 0300 0700 1100 1500 1900 2300 0300 0700 1100 1500 1900 2300
 POINT

TABLE V

[illegible]

Seed Exit Temperature

[illegible]

DL: S-225 15a
REACTIVITY LIFETIME TEST

TEST GROUP 10/20/58 TO

TABLE V

BLANKET INLET AND EXIT TEMP.

[illegible]

SEED EXIT TEMP.

DATE	10-15/58	10-20	10-20	10-20	10-21	10-21	10-21	10-21	10-21	10-21	10-21	10-21	10-21	10-21	10-21	10-21	10-21	10-21	10-21	10-21	10-21	10-21	10-21	10-21	10-21	10-21	10-21	
TIME	0700	1100	1500	1900	2300	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2030	2100
POINT																												
1	511.1	510.5	511.3	511.0	511.5	512.0	512.5	512.0	512.0	512.5	512.5	512.5	512.0	511.5	511.2	510.9	511.0	510.9	510.0	511.0	511.0	510.5	510.5	511.0	511.0	511.5	511.5	511.5
2	500.8	500.5	501.0	501.0	501.0	502.0	501.5	501.5	501.0	501.5	502.0	501.5	501.5	501.0	501.0	500.5	501.5	501.0	500.5	501.5	501.0	501.0	501.0	501.0	501.0	501.5	501.0	501.2
3	512.3	512.0	512.5	512.5	512.5	513.0	513.5	513.0	513.0	513.5	514.0	513.5	513.0	512.9	512.9	512.1	512.9	512.5	512.0	513.0	512.5	512.0	512.5	512.5	512.5	513.0	512.5	512.5
4	455.2	455.0	455.5	456.5	456.0	456.0	456.5	456.0	456.0	456.0	456.0	456.0	456.0	456.0	456.0	456.0	456.0	455.8	457.0	457.0	456.5	456.5	456.4	456.5	456.5	457.0	457.5	457.5
5	492.5	492.0	492.7	493.5	493.0	493.5	493.5	493.0	493.0	493.5	493.5	493.0	493.0	493.0	493.0	492.9	493.5	493.8	493.0	494.0	493.8	493.0	493.5	493.0	493.0	493.5	493.5	493.0
6	514.7	515.0	516.0	516.0	515.5	516.0	516.0	515.5	515.5	515.5	516.0	516.0	515.5	515.4	515.5	515.1	515.8	516.0	516.0	517.0	516.5	516.0	516.5	516.0	516.0	516.0	516.0	516.0
7	480.5	479.5	481.3	481.5	481.5	482.0	481.0	481.0	481.5	481.5	481.5	481.5	480.5	480.5	481.2	480.5	481.0	481.0	481.5	481.5	481.5	481.0	481.5	482.0	481.5	482.0	482.0	482.0
8	481.3	482.0	483.3	483.0	482.5	484.0	483.0	483.0	483.0	483.0	483.5	483.5	481.5	482.5	482.0	483.2	481.9	482.5	482.5	483.0	483.5	483.5	483.0	484.0	483.5	483.5	483.5	483.5
9	492.8	493.0	493.5	493.5	493.5	494.5	494.5	494.0	494.0	494.0	494.5	494.0	493.5	493.2	493.2	492.9	493.5	493.6	493.2	494.0	494.0	493.5	493.5	493.5	494.0	493.5	494.0	494.0
10	507.9	507.3	507.0	508.0	508.5	509.5	509.5	509.0	509.0	509.5	509.5	509.5	509.0	508.5	508.0	507.9	507.4	507.9	508.0	507.9	508.5	508.0	508.0	508.5	508.5	508.5	509.0	509.0
11	491.5	491.2	491.5	492.0	492.0	492.5	493.0	492.5	492.5	493.0	492.5	492.5	492.0	492.1	491.9	491.0	491.5	491.9	491.5	492.5	491.7	491.5	492.0	492.0	492.0	492.5	492.5	492.5
12	453.8	452.0	453.0	452.5	453.0	455.0	455.0	453.5	455.0	455.5	454.5	454.5	453.5	454.5	454.0	453.0	453.9	455.5	454.0	454.5	454.0	454.5	456.0	455.0	456.5	457.0	456.5	457.5
13	486.7	482.0	485.1	487.5	488.0	489.0	488.0	488.5	489.5	487.5	488.5	488.0	488.5	488.1	487.0	487.4	487.2	486.9	487.8	487.5	488.5	487.5	487.0	487.0	486.0	488.0	488.0	488.0
14	508.0	508.9	509.7	509.0	508.5	509.0	509.0	508.5	508.5	509.0	509.5	509.0	508.5	509.0	508.9	508.8	508.9	509.6	509.2	510.0	509.0	509.0	509.0	509.0	509.0	509.0	509.5	509.0
15	492.1	492.2	493.0	493.0	492.5	493.0	493.0	492.5	492.5	493.0	493.0	493.0	493.0	492.8	493.0	492.8	493.4	492.9	493.0	493.5	493.5	492.0	493.5	493.5	493.0	493.0	493.0	494.0
16	518.6	519.8	520.3	520.0	519.5	520.0	520.0	519.0	519.0	520.0	520.0	520.0	520.0	519.9	520.0	519.9	520.2	520.4	520.1	521.0	520.5	520.0	520.2	520.0	520.0	520.0	520.0	519.5
17	515.0	514.5	515.0	515.0	515.5	516.5	516.5	516.0	516.0	516.5	516.5	516.0	515.5	515.5	514.9	514.5	514.5	514.6	514.5	515.0	515.0	514.5	515.0	515.0	515.0	516.0	516.0	516.0
18	509.5	509.0	509.5	509.5	510.0	510.5	511.0	510.5	510.0	511.0	511.0	510.0	510.0	509.8	509.6	509.0	509.2	509.4	509.0	509.5	509.5	509.0	509.9	509.5	509.5	510.0	510.5	510.5
19	511.2	510.5	511.3	511.5	511.5	512.5	512.5	512.0	512.0	512.5	512.5	512.5	511.5	511.2	511.0	510.6	511.0	511.0	510.8	511.5	511.0	511.0	511.0	511.5	511.5	512.0	512.0	512.0
20	507.7	507.0	507.5	507.5	507.5	509.0	509.0	508.5	508.0	509.0	509.0	508.0	507.5	507.8	507.4	507.0	507.3	507.5	507.2	507.5	507.5	507.0	507.5	507.5	507.5	508.0	512.0	512.0
21	511.7	510.9	511.3	511.0	511.5	512.5	513.0	512.5	512.5	512.5	513.0	512.0	512.0	511.7	511.5	510.8	511.0	511.1	511.0	511.5	511.2	510.5	511.0	511.5	511.5	512.0	512.0	512.0
22	516.3	515.5	516.0	516.0	516.5	517.5	518.0	517.5	517.5	518.0	518.0	517.0	517.0	516.7	516.2	515.5	515.8	515.8	515.6	516.0	515.8	515.5	515.9	516.0	516.0	517.0	517.0	517.0
23	508.0	507.5	507.7	508.0	508.5	509.5	510.0	510.0	509.0	510.0	510.0	510.0	510.0	509.0	508.8	508.5	508.5	508.1	508.1	508.5	508.0	508.0	508.5	508.5	508.5	509.5	509.5	509.2
24	512.4	512.0	512.3	512.5	512.5	514.0	514.0	513.5	513.5	514.0	514.0	513.5	513.0	512.9	512.8	512.0	512.2	512.0	512.0	512.5	512.0	512.0	512.5	512.5	512.5	513.0	513.0	513.0

10AD

DL-5-225
Reactivity Life time

Test Group

10-21-58

TABLE V

BLANKET INLET AND EXIT TEMPERATURE

[illegible]

IOAE

16a

Reactivity Life time Test.

Test Group: _____ No. 10-21-58

TABLE V

Protein	Pellet Fraction (%)	Supernatant Fraction (%)
BSA	~10	~90
IgG	~10	~90
PEG	~90	~10
Protein A	~40	~60
Protein B	~50	~50
Protein C	~60	~40
Protein D	~70	~30
Protein E	~80	~20
Protein F	~90	~10

P	A	I	N	T																								
34	486.0	488.0	487.0	486.0	487.5	488.0	485.9	486.8	486.0	488.0	486.3	487.6	486.0	487.4	488.0	488.2	487.2	487.5	486.5	486.0	487.0	486.5	486.9	487.8	487.9	483.2	487.2	487.5
35	511.0	511.5	510.5	510.6	511.1	509.9	510.0	509.7	510.0	511.0	510.8	509.8	509.0	508.5	506.9	511.5	510.7	510.0	508.5	509.2	510.5	511.0	510.5	511.0	511.0	511.0	510.5	510.5
36	470.0	470.9	470.0	469.9	470.5	470.1	470.8	469.9	470.0	470.5	470.7	471.0	470.5	469.5	465.4	470.5	471.0	470.5	469.2	470.2	469.5	470.0	470.0	470.0	470.0	470.0	470.2	470.9
37	480.5	481.0	479.5	479.1	480.6	479.5	480.0	480.0	480.0	481.0	480.4	481.2	480.0	481.0	483.0	482.0	481.8	481.5	480.5	481.4	481.5	481.4	481.4	481.4	481.4	481.4	481.4	481.4
38	521.5	521.5	520.5	520.5	520.7	520.6	522.0	521.3	520.0	520.5	520.2	521.0	521.0	520.9	521.2	521.0	521.0	521.5	520.5	521.3	521.4	521.0	520.5	520.5	520.5	520.5	520.5	519.5

[illegible]

* Printer still moving when printout occurred

1045

COMPILED BY _____ CHECKED BY _____ DATE _____

TABLE VI

FORM 628-7-12											
		No. 1 Sample Train Activity (CPS)		No. 2 Sample Train Activity (CPS)		No. 1 Sample Train Flow (GPM)		No. 2 Sample Train Flow (GPM)		No. 1 Sample Train Activity (CPS)	
DATE		9/22/58		9-23-58		9-24-58		9-25-58		9/26/58	
TIME		1330 to 1550		1337 to 1428		1621 to 1712		1835 to 2135		1835 to 2130	
PORT NO.		1		2		3		4		5	
1		1.0X10 ²	0.938	0.930	1.28X10 ²	0.928	0.93	1.15X10 ²	1.2X10 ²	0.892	0.922
2		1.0X10 ²	0.940	0.960	1.9X10 ²	0.931	0.955	1.5X10 ²	1.8X10 ²	0.894	0.949
3		1.0X10 ²	0.931	0.960	2.0X10 ²	0.93	0.95	1.3X10 ²	2.0X10 ²	0.895	0.945
4		1.1X10 ²	0.934	0.960	1.3X10 ²	0.93	0.959	1.0X10 ²	1.6X10 ²	0.895	0.951
5		1.0X10 ²	0.922	0.955	1.9X10 ²	0.928	0.955	1.0X10 ²	1.9X10 ²	0.890	0.947
6		1.0X10 ²	0.936	0.960	1.7X10 ²	0.928	0.96	1.3X10 ²	1.8X10 ²	0.891	0.952
7		1.0X10 ²	0.940	0.960	1.6X10 ²	0.928	0.959	1.3X10 ²	1.6X10 ²	0.891	0.950
8		0.9X10 ²	0.932	0.962	1.6X10 ²	0.93	0.962	1.3X10 ²	1.8X10 ²	0.895	0.957
9		0.9X10 ²	0.937	0.960	1.6X10 ²	0.935	0.96	1.45X10 ²	1.9X10 ²	0.899	0.953
10		1.0X10 ²	0.932	0.962	1.7X10 ²	0.93	0.959	1.1X10 ²	1.8X10 ²	0.899	0.953
11		1.0X10 ²	0.932	0.960	2.0X10 ²	0.93	0.96	1.5X10 ²	2.2X10 ²	0.898	0.952
12		1.0X10 ²	0.935	0.960	2.2X10 ²	0.93	0.955	1.4X10 ²	2.4X10 ²	0.899	0.948
13		1.0X10 ²	0.940	0.960	1.2X10 ²	0.93	0.959	1.5X10 ²	1.7X10 ²	0.899	0.949
14		1.1X10 ²	0.932	0.963	1.2X10 ²	0.93	0.96	1.5X10 ²	1.7X10 ²	0.910	0.954
15		1.0X10 ²	0.932	0.960	1.7X10 ²	0.93	0.96	1.5X10 ²	1.7X10 ²	0.899	0.951
16		1.0X10 ²	0.932	0.962	1.8X10 ²	0.935	0.96	1.5X10 ²	1.7X10 ²	0.901	0.953
17		1.1X10 ²	0.933	0.960	2.0X10 ²	0.931	0.96	1.4X10 ²	2.0X10 ²	0.900	0.950
18		1.1X10 ²	0.933	0.960	1.6X10 ²	0.93	0.96	1.3X10 ²	1.6X10 ²	0.895	0.950
19		1.0X10 ²	0.933	0.955	1.7X10 ²	0.93	0.952	1.5X10 ²	1.8X10 ²	0.894	0.947
20		1.0X10 ²	0.930	0.970	1.7X10 ²	0.93	0.965	1.3X10 ²	1.7X10 ²	0.896	0.958
21		1.1X10 ²	0.934	0.983	1.9X10 ²	0.93	0.962	1.2X10 ²	2.0X10 ²	0.899	0.955
22		1.1X10 ²	0.931	0.960	1.7X10 ²	0.93	0.959	1.4X10 ²	1.7X10 ²	0.897	0.950
23		1.1X10 ²	0.931	0.960	1.4X10 ²	0.93	0.958	1.1X10 ²	1.5X10 ²	0.893	0.949
24		1.1X10 ²	0.930	0.960	1.1X10 ²	0.93	0.955	1.2X10 ²	2.2X10 ²	0.894	0.948
25		1.1X10 ²	0.929	0.960	1.2X10 ²	0.932	0.96	1.2X10 ²	1.7X10 ²	0.899	0.952
26		1.1X10 ²	0.930	0.961	1.25X10 ²	0.94	0.96	1.3X10 ²	1.7X10 ²	0.903	0.951
27		1.0X10 ²	0.930	0.968	1.3X10 ²	0.935	0.959	1.3X10 ²	1.7X10 ²	0.902	0.951
28		1.0X10 ²	0.930	0.962	1.3X10 ²	0.935	0.96	1.3X10 ²	1.5X10 ²	0.900	0.953
29		1.1X10 ²	0.937	0.960	1.2X10 ²	0.935	0.959	1.3X10 ²	1.7X10 ²	0.902	0.950

COMPANY

DEPARTMENT

DIVISION

COMPILED BY

CHECKED BY

RATE

Table VI

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Duquesne Light
Power Station
Shipping port

SUBJECT DL-5-225 San I SHEET NO. 3
Reactivity Lifetime
Daily Fecal Activity & Flow
COMPANY Reactivity Lifetime
DEPARTMENT Daily Fecal Activity & Flow
DIVISION COMPILED BY CHECKED BY DATE

Table VI

		No 1 Sample Train Activity (cps)		No 2 Sample Train Activity (cps)		No 1 Sample Train Flow (gpm)		No 2 Sample Train Flow (gpm)		No 1 Sample Train Activity (cps)		No 2 Sample Train Activity (cps)		No 1 Sample Train Flow (gpm)		No 2 Sample Train Flow (gpm)		No 1 Sample Train Activity (cps)		No 2 Sample Train Activity (cps)		No 1 Sample Train Flow (gpm)		No 2 Sample Train Flow (gpm)		No 1 Sample Train Activity (cps)		No 2 Sample Train Activity (cps)		No 1 Sample Train Flow (gpm)		No 2 Sample Train Flow (gpm)	
DATE	TIME	8-29-58				9/30/58				10-1-58				10/2/58				10/3/58				10/4/58				10/5/58							
		1931-2230				1030-1250				2102				1345-1630				1932-2239				0015-0310				2052-2313							
Point 1	1.8-10	1.1-10	1.00	1.25	2.0-10	1.042	1.002	1.8	1.1	1.2-3	1.999	2.0-10	1.014	0.948	3.0-10	1.020	0.950	2.5-10	2.5-10	1.018	0.950	2.5-10	2.5-10	1.000	0.948								
2	1.4-10	1.8-10	1.30	1.23	1.7-10	1.044	1.034	2.0	2.3	1.0-3	1.992	2.0-10	1.010	0.970	3.0-10	1.020	0.975	2.5-10	3.0-10	1.018	0.973	2.5-10	3.0-10	1.000	0.962								
3	1.5-10	2.2-10	1.30	1.25	1.7-10	1.046	1.030	2.2	2.6	1.0-5	1.969	2.0-10	1.014	0.965	3.0-10	1.020	0.919	2.5-10	2.5-10	1.020	0.970	2.5-10	2.5-10	1.000	0.958								
4	1.7-10	1.8-10	1.28	1.24	1.7-10	1.045	1.034	1.5	2.1	1.0-4	1.971	2.0-10	1.016	0.971	3.0-10	1.017	0.972	2.0-10	3.0-10	1.017	0.972	2.0-10	3.0-10	1.000	0.999								
5	1.3-10	2.1-10	1.31	1.22	1.7-10	1.043	1.030	1.6	2.5	1.0-2	1.970	2.0-10	1.015	0.970	3.0-10	1.018	0.977	2.0-10	2.5-10	1.018	0.970	2.0-10	2.5-10	1.000	0.961								
6	1.1-10	1.8-10	1.30	1.25	1.7-10	1.045	1.037	1.5	2.1	1.0-2	1.975	2.0-10	1.016	0.975	3.0-10	1.021	0.974	2.0-10	2.5-10	1.021	0.976	2.5-10	2.5-10	1.002	0.968								
7	1.6-10	1.7-10	1.35	1.25	1.7-10	1.045	1.035	2.1	2.1	1.0-5	1.973	2.0-10	1.016	0.973	3.0-10	1.021	0.973	2.0-10	2.5-10	1.021	0.974	2.0-10	2.5-10	1.004	0.963								
8	1.8-10	1.8-10	1.32	1.27	2.0-10	1.050	1.040	2.5	2.2	1.0-5	1.977	3.0-10	1.020	0.970	3.0-10	1.025	0.981	3.0-10	3.0-10	1.024	0.979	2.0-10	2.5-10	1.005	0.968								
9	1.9-10	2.0-10	1.39	1.33	1.1-10	1.053	1.035	2.4	2.3	1.0-7	1.973	2.0-10	1.019	0.975	3.0-10	1.025	0.978	3.0-10	2.5-10	1.024	0.977	3.0-10	2.5-10	1.004	0.967								
10	1.8-10	1.8-10	1.32	1.24	1.1-10	1.050	1.036	2.5	2.1	1.0-7	1.975	2.0-10	1.017	0.974	3.0-10	1.022	0.978	2.0-10	2.5-10	1.022	0.978	2.0-10	2.5-10	1.004	0.967								
11	1.2-10	2.2-10	1.32	1.34	2.0-10	1.047	1.037	1.8	2.6	1.0-6	1.979	2.0-10	1.017	0.972	3.0-10	1.022	0.976	3.0-10	2.5-10	1.022	0.977	3.0-10	2.5-10	1.004	0.965								
12	2.0-10	2.5-10	1.30	1.35	2.0-10	1.046	1.035	2.6	3.2	1.0-5	1.970	3.0-10	1.019	0.970	3.0-10	1.024	0.972	2.0-10	2.5-10	1.024	0.972	3.0-10	2.0-10	1.004	0.962								
13	1.9-10	1.8-10	1.27	1.33	2.0-10	1.046	1.033	2.5	2.2	1.0-5	1.972	3.0-10	1.016	0.971	3.0-10	1.020	0.974	3.0-10	2.5-10	1.020	0.973	3.0-10	2.5-10	1.002	0.964								
14	1.9-10	1.8-10	1.30	1.49	2.0-10	1.060	1.034	2.5	2.9	1.0-2	1.978	2.0-10	1.028	0.978	3.0-10	1.032	0.980	2.0-10	3.0-10	1.033	0.980	2.0-10	2.5-10	1.014	0.969								
15	2.0-10	1.8-10	1.35	1.34	1.1-10	1.046	1.040	2.6	2.2	1.0-5	1.972	2.0-10	1.016	0.971	3.0-10	1.021	0.977	2.0-10	2.5-10	1.021	0.976	2.0-10	2.5-10	1.005	0.965								
16	1.1-10	1.8-10	1.25	1.38	2.0-10	1.050	1.038	1.5	2.9	1.0-3	1.975	2.0-10	1.020	0.975	3.0-10	1.025	0.978	3.0-10	2.5-10	1.025	0.978	2.0-10	3.0-10	1.005	0.968								
17	1.3-10	2.0-10	1.34	1.37	2.0-10	1.050	1.034	1.7	2.5	1.0-6	1.972	3.0-10	1.021	0.972	3.0-10	1.025	0.977	2.5-10	2.5-10	1.025	0.975	3.0-10	2.5-10	1.006	0.963								
18	1.8-10	1.7-10	1.30	1.35	2.0-10	1.049	1.033	2.5	2.2	1.0-6	1.973	3.0-10	1.019	0.977	3.0-10	1.025	0.973	3.0-10	3.0-10	1.024	0.975	2.5-10	2.5-10	1.005	0.963								
19	1.6-10	2.0-10	1.30	1.33	1.1-10	1.046	1.030	2.2	2.2	1.0-5	1.970	3.0-10	1.017	0.969	3.0-10	1.021	0.970	2.5-10	2.5-10	1.022	0.972	3.0-10	2.5-10	1.004	0.960								
20	1.8-10	1.8-10	1.27	1.33	1.1-10	1.046	1.040	2.5	2.3	1.0-5	1.980	2.0-10	1.019	0.980	3.0-10	1.024	0.971	2.5-10	3.0-10	1.024	0.982	2.0-10	2.5-10	1.004	0.972								
21	1.5-10	2.1-10	1.39	1.35	2.0-10	1.048	1.039	2.1	2.5	1.0-5	1.975	2.0-10	1.017	0.978	3.0-10	1.024	0.973	3.0-10	3.0-10	1.024	0.982	2.0-10	2.0-10	1.004	0.968								
22	1.4-10	1.9-10	1.35	1.35	2.0-10	1.048	1.034	2.0	2.2	1.0-5	1.973	2.0-10	1.020	0.977	3.0-10	1.025	0.972	2.0-10	2.5-10	1.025	0.975	3.0-10	3.0-10	1.005	0.963								
23	1.8-10	1.8-10	1.30	1.34	2.0-10	1.046	1.032	2.5	2.0	1.0-5	1.972	2.0-10	1.017	0.971	3.0-10	1.022	0.977	2.0-10	2.5-10	1.022	0.977	2.0-10	2.5-10	1.005	0.962								
24	1.3-10	2.3-10	1.29	1.33	2.0-10	1.046	1.031	1.6	3.0	1.0-5	1.972	3.0-10	1.017	0.971	3.0-10	1.024	0.974	2.0-10	2.5-10	1.022	0.973	3.0-10	2.5-10	1.004	0.962								
25	1.3-10	1.8-10	1.30	1.35	2.0-10	1.050	1.036	1.8	2.3	1.0-5	1.975	2.0-10	1.017	0.976	3.0-10	1.024	0.977	2.5-10	3.0-10	1.024	0.978	2.0-10	2.5-10	1.005	0.968								
26	1.4-10	1.8-10	1.32	1.40	1.1-10	1.050	1.036	1.8	2.3	1.0-5	1.976	2.0-10	1.018	0.975	3.0-10	1.028	0.978	2.5-10	2.5-10	1.028	0.978	2.0-10	3.0-10	1.009	0.967								
27	1.5-10	1.7-10	1.32	1.38	1.1-10	1.050	1.035	2.0	2.2	1.0-0	1.975	2.0-10	1.022	0.973	3.0-10	1.026	0.979	2.0-10	3.0-10	1.025	0.979	2.5-10	2.5-10	1.005	0.965								
28	1.6-10	1.8-10	1.30	1.35	2.0-10	1.050	1.037	2.2	2.0	1.0-5	1.977	3.0-10	1.020	0.976	3.0-10	1.026	0.978	2.5-10	2.5-10	1.025	0.978	2.0-10	2.5-10	1.005	0.968								
29	1.3-10	2.2-10	1.33	1.37	1.1-10	1.050	1.034	2.0	2.8	1.0-5	1.975	2.0-10	1.020	0.977	3.0-10	1.027	0.978	2.0-10	2.5-10	1.026	0.977	2.0-10	3.0-10	1.007	0.966								

Duquesne Light
Power Station
Shipping port

SUBJECT DR-225 Sec I SHEET NO. 4
COMPANY Reactivity Lifetime
DEPARTMENT Daily Fuel Activity & Flow
DIVISION _____ COMPILED BY _____ CHECKED BY _____ DATE _____

Table VI

Point No	9/29/58		9/30/58		10/1/58		10/2/58		10/3/58		10/4/58		10/5/58	
	1345 2230	1030 6150	1030 6150	1030 6150	1030 6150	1030 6150	1345 5130	1030 6150	1345 2230	1030 6150	1030 6150	1030 6150	1030 6150	1030 6150
30	1.4x10 ¹⁰	2.1x10 ¹⁰	1.34	1.1x10 ¹⁰	2.0x10 ¹⁰	1.045	1.034	2.9	1.5	102.9	.976	3.0x10 ¹⁰	1.07	0.972
31	1.3x10 ¹⁰	2.0x10 ¹⁰	1.35	1.1x10 ¹⁰	2.0x10 ¹⁰	1.048	1.038	1.7	2.9	102.5	.990	2.0x10 ¹⁰	1.019	0.978
32	1.4x10 ¹⁰	2.2x10 ¹⁰	1.36	1.5x10 ¹⁰	2.0x10 ¹⁰	1.047	1.034	2.0	3.0	102.5	.975	2.0x10 ¹⁰	1.019	0.977
33	1.5x10 ¹⁰	1.8x10 ¹⁰	1.30	1.5x10 ¹⁰	2.0x10 ¹⁰	1.045	1.036	2.1	2.3	102.5	.977	2.0x10 ¹⁰	1.018	0.975
34	1.4x10 ¹⁰	2.1x10 ¹⁰	1.34	1.5x10 ¹⁰	2.0x10 ¹⁰	1.047	1.036	1.8	2.5	102.4	.978	2.0x10 ¹⁰	1.016	0.975
35	1.6x10 ¹⁰	2.6x10 ¹⁰	1.32	1.5x10 ¹⁰	2.0x10 ¹⁰	1.048	1.035	2.1	2.5	102.5	.977	3.0x10 ¹⁰	1.020	0.974
36	1.5x10 ¹⁰	1.7x10 ¹⁰	1.32	1.5x10 ¹⁰	2.0x10 ¹⁰	1.048	1.038	2.1	2.2	102.5	.979	3.0x10 ¹⁰	1.020	0.978
37	1.8x10 ¹⁰	2.3x10 ¹⁰	1.35	2.0x10 ¹⁰	3.0x10 ¹⁰	1.050	1.035	2.2	3.0	102.5	.976	3.0x10 ¹⁰	1.020	0.974
38	1.7x10 ¹⁰	2.8x10 ¹⁰	1.31	2.0x10 ¹⁰	2.0x10 ¹⁰	1.045	1.035	2.3	3.2	102.7	.975	2.0x10 ¹⁰	1.012	0.973
39	1.3x10 ¹⁰	1.5x10 ¹⁰	1.32	2.0x10 ¹⁰	2.0x10 ¹⁰	1.049	1.035	1.9	2.0	102.2	.975	2.0x10 ¹⁰	1.019	0.973
40	1.2x10 ¹⁰	1.5x10 ¹⁰	1.32	2.0x10 ¹⁰	2.0x10 ¹⁰	1.046	1.034	1.6	1.9	102.5	.975	2.0x10 ¹⁰	1.016	0.973
41	1.7x10 ¹⁰	2.2x10 ¹⁰	1.31	2.0x10 ¹⁰	2.0x10 ¹⁰	1.049	1.033	2.4	2.7	102.5	.973	2.0x10 ¹⁰	1.019	0.972
42	1.8x10 ¹⁰	1.4x10 ¹⁰	1.30	2.0x10 ¹⁰	2.0x10 ¹⁰	1.049	1.030	2.5	4.0	102.7	.973	2.0x10 ¹⁰	1.019	0.971
43	1.2x10 ¹⁰	1.6x10 ¹⁰	1.39	2.0x10 ¹⁰	2.0x10 ¹⁰	1.048	1.034	1.7	3.0	102.8	.975	2.0x10 ¹⁰	1.019	0.972
44	1.9x10 ¹⁰	2.2x10 ¹⁰	1.31	1.1x10 ¹⁰	2.0x10 ¹⁰	1.050	1.038	2.7	2.9	102.8	.979	3.0x10 ¹⁰	1.019	0.978
45	2.0x10 ¹⁰	2.1x10 ¹⁰	1.35	1.1x10 ¹⁰	2.0x10 ¹⁰	1.054	1.037	2.7	2.0	102.9	.977	3.0x10 ¹⁰	1.020	0.972
46	2.0x10 ¹⁰	1.7x10 ¹⁰	1.34	2.0x10 ¹⁰	2.0x10 ¹⁰	1.050	1.033	2.7	2.9	103.0	.974	2.0x10 ¹⁰	1.019	0.972
47	2.1x10 ¹⁰	2.0x10 ¹⁰	1.38	2.0x10 ¹⁰	3.0x10 ¹⁰	1.046	1.031	2.7	2.9	102.9	.970	2.0x10 ¹⁰	1.016	0.970
48	1.1x10 ¹⁰	2.1x10 ¹⁰	1.28	2.0x10 ¹⁰	2.0x10 ¹⁰	1.048	1.036	1.5	2.9	102.5	.975	2.0x10 ¹⁰	1.016	0.975
49	1.2x10 ¹⁰	1.9x10 ¹⁰	1.32	2.0x10 ¹⁰	2.0x10 ¹⁰	1.052	1.033	1.6	2.2	102.5	.974	3.0x10 ¹⁰	1.016	0.973
50	2.0x10 ¹⁰	1.8x10 ¹⁰	1.30	1.1x10 ¹⁰	2.0x10 ¹⁰	1.045	1.032	2.8	2.0	103.0	.973	2.0x10 ¹⁰	1.016	0.972
51	1.3x10 ¹⁰	1.7x10 ¹⁰	1.35	2.0x10 ¹⁰	2.0x10 ¹⁰	1.052	1.038	1.7	2.2	102.0	.979	2.0x10 ¹⁰	1.020	0.974
52	1.4x10 ¹⁰	1.8x10 ¹⁰	1.33	2.0x10 ¹⁰	3.0x10 ¹⁰	1.050	1.035	1.9	2.5	102.9	.975	2.0x10 ¹⁰	1.016	0.978
53	1.2x10 ¹⁰	2.1x10 ¹⁰	1.39	2.0x10 ¹⁰	3.0x10 ¹⁰	1.030	1.040	1.7	3.3	102.5	.990	3.0x10 ¹⁰	1.020	0.972
54	1.5x10 ¹⁰	2.1x10 ¹⁰	1.39	2.0x10 ¹⁰	2.0x10 ¹⁰	1.046	1.040	2.1	3.0	101.0	.980	2.0x10 ¹⁰	1.016	0.980
55	1.2x10 ¹⁰	2.2x10 ¹⁰	1.39	1.1x10 ¹⁰	3.0x10 ¹⁰	1.045	1.041	1.7	2.8	102.5	.990	2.0x10 ¹⁰	1.012	0.980
56	1.3x10 ¹⁰	2.4x10 ¹⁰	1.25	1.1x10 ¹⁰	3.0x10 ¹⁰	1.052	1.038	1.9	2.2	102.3	.974	3.0x10 ¹⁰	1.020	0.978
57	1.8x10 ¹⁰	1.7x10 ¹⁰	1.30	2.0x10 ¹⁰	3.0x10 ¹⁰	1.050	1.034	2.9	2.9	103.0	.975	3.0x10 ¹⁰	1.020	0.972

COMPANY
DEPARTMENT
DIVISION

SHEET NO. 5

Table VI

11e

SUBJECT DL-3-225, Sec I SHEET NO. 6
COMPANY Reactivity Lifetime
DEPARTMENT Daily Fedal Activity & Flow
DIVISION _____ COMPILED BY _____ CHECKED BY _____ DATE _____

Table VI

	No 1 Sample Train Activity (CPS)	No 2 Sample Train Activity (CPS)	No 1 Sample Train Flow (GPM)	No 2 Sample Train Flow (GPM)	No 1 Sample Train Activity (CPS)	No 2 Sample Train Activity (CPS)	No 1 Sample Train Flow (GPM)	No 2 Sample Train Flow (GPM)	No 1 Sample Train Activity (CPS)	No 2 Sample Train Activity (CPS)	No 1 Sample Train Flow (GPM)	No 2 Sample Train Flow (GPM)	No 1 Sample Train Activity (CPS)	No 2 Sample Train Activity (CPS)	No 1 Sample Train Flow (GPM)	No 2 Sample Train Flow (GPM)	No 1 Sample Train Activity (CPS)	No 2 Sample Train Activity (CPS)	No 1 Sample Train Flow (GPM)	No 2 Sample Train Flow (GPM)	No 1 Sample Train Activity (CPS)	No 2 Sample Train Activity (CPS)	No 1 Sample Train Flow (GPM)	No 2 Sample Train Flow (GPM)	No 1 Sample Train Activity (CPS)	No 2 Sample Train Activity (CPS)	No 1 Sample Train Flow (GPM)	No 2 Sample Train Flow (GPM)
DATE	10-6-58				10-7-58				10-8-58				10-9-58				10-10-58				10-11-58				10-12-58			
TIME	1328 to 1619				0930 to 1221				2000 to 2251				0753 to 1221				1045 to 1345				0933 to 1403				1703 to 2118			
POINT 30	3.5X10 ²	3.5X10 ²	1.05	.966	3.5X10 ²	3.0X10 ²	1.0	.964	2.5X10 ²	2.5X10 ²	.998	.96	2.0X10 ²	3.0X10 ²	1.006	.955	2.0X10 ²	3.8X10 ²	.997	.953	2.6X10 ²	3.0X10 ²	.999	.948	2.1	10	.989	.944
31	2.2X10 ²	4.0X10 ²	1.05	.969	3.2X10 ²	5.0X10 ²	1.0	.963	3.0X10 ²	2.5X10 ²	.998	.96	2.6X10 ²	3.3X10 ²	1.008	.960	2.5X10 ²	3.0X10 ²	.997	.957	1.9X10 ²	3.8X10 ²	.999	1.00	2.3		.990	.944
32	2.0X10 ²	4.5X10 ²	1.05	.963	4.0X10 ²	3.0X10 ²	1.008	.968	3.0X10 ²	3.5X10 ²	.999	.968	2.4X10 ²	2.5X10 ²	1.009	.954	2.2X10 ²	2.2X10 ²	.997	.953	3.5X10 ²	4.5X10 ²	1.00	.946	2.3		.990	.949
33	3.0X10 ²	3.0X10 ²	1.0	.968	3.2X10 ²	3.0X10 ²	1.01	.968	3.2X10 ²	3.5X10 ²	.998	.965	2.2X10 ²	2.7X10 ²	1.005	.958	2.1X10 ²	2.2X10 ²	.996	.954	2.3X10 ²	3.0X10 ²	.998	.945	2.5		.988	.944
34	2.8X10 ²	3.2X10 ²	1.02	.969	3.0X10 ²	3.5X10 ²	1.01	.968	2.5X10 ²	4.0X10 ²	.999	.962	2.7X10 ²	2.5X10 ²	1.009	.959	2.5X10 ²	2.2X10 ²	.997	.954	2.1X10 ²	3.5X10 ²	.998	.950	2.1		.989	.948
35	3.0X10 ²	3.0X10 ²	1.05	.964	3.0X10 ²	2.5X10 ²	1.01	.969	2.8X10 ²	4.0X10 ²	.999	.96	2.5X10 ²	2.3X10 ²	1.009	.955	2.2X10 ²	3.1X10 ²	.997	.953	3.0X10 ²	3.5X10 ²	1.00	.949	2.0		.990	.948
36	3.0X10 ²	2.9X10 ²	1.05	.969	3.5X10 ²	3.0X10 ²	1.01	.965	3.0X10 ²	4.5X10 ²	.999	.965	2.7X10 ²	3.3X10 ²	1.007	.950	2.7X10 ²	3.0X10 ²	.998	.957	3.0X10 ²	3.0X10 ²	1.001	.950	2.5		.990	.946
37	3.5X10 ²	2.5X10 ²	1.05	.968	4.0X10 ²	2.5X10 ²	1.01	.965	3.5X10 ²	3.5X10 ²	1.0	.962	2.8X10 ²	3.4X10 ²	1.01	.958	2.5X10 ²	3.0X10 ²	1.00	.954	3.5X10 ²	4.0X10 ²	1.002	.948	2.0		.991	.949
38	3.5X10 ²	4.5X10 ²	1.0	.968	2.5X10 ²	2.3X10 ²	1.005	.965	3.5X10 ²	3.0X10 ²	.992	.96C	2.2X10 ²	2.1X10 ²	1.003	.952	2.0X10 ²	2.0X10 ²	.993	.953	3.5X10 ²	4.5X10 ²	.997	.948	2.3		.987	.948
39	2.7X10 ²	2.5X10 ²	1.04	.968	2.7X10 ²	4.0X10 ²	1.01	.965	2.5X10 ²	3.0X10 ²	.998	.962	2.0X10 ²	2.0X10 ²	1.01	.954	2.0X10 ²	1.9X10 ²	.997	.953	3.0X10 ²	2.8X10 ²	.998	.948	2.3		.990	.947
40	2.4X10 ²	2.5X10 ²	1.03	.968	2.7X10 ²	3.0X10 ²	1.001	.965	2.4X10 ²	3.0X10 ²	.997	.962	2.7X10 ²	3.0X10 ²	1.009	.953	2.6X10 ²	2.8X10 ²	.997	.953	2.5X10 ²	2.8X10 ²	.998	.948	2.3		.990	.947
41	3.5X10 ²	4.0X10 ²	1.04	.966	3.0X10 ²	3.0X10 ²	1.01	.96	2.4X10 ²	3.0X10 ²	.998	.96	2.8X10 ²	2.5X10 ²	1.006	.952	2.6X10 ²	2.2X10 ²	.997	.951	3.5X10 ²	3.8X10 ²	1.001	.944	2.1		.991	.947
42	2.5X10 ²	4.0X10 ²	1.05	.963	3.0X10 ²	3.0X10 ²	1.01	.965	3.0X10 ²	3.0X10 ²	.998	.96	3.1X10 ²	3.1X10 ²	1.012	.952	2.0X10 ²	2.0X10 ²	.997	.949	3.8X10 ²	3.5X10 ²	1.00	.944	2.4		.991	.944
43	2.5X10 ²	3.0X10 ²	1.05	.966	3.0X10 ²	3.0X10 ²	1.01	.97	3.5X10 ²	3.0X10 ²	.998	.96	3.0X10 ²	3.2X10 ²	1.009	.954	3.0X10 ²	3.0X10 ²	.997	.951	2.8X10 ²	2.8X10 ²	1.001	.946	2.4		.991	.943
44	3.8X10 ²	2.5X10 ²	1.06	.970	3.0X10 ²	2.9X10 ²	1.008	.968	3.8X10 ²	4.0X10 ²	.999	.968	3.2X10 ²	2.6X10 ²	1.009	.960	3.0X10 ²	2.5X10 ²	.998	.957	4.0X10 ²	4.0X10 ²	1.002	.951	2.4		.991	.946
45	4.0X10 ²	4.0X10 ²	1.06	.968	3.0X10 ²	2.7X10 ²	1.013	.96	3.5X10 ²	4.0X10 ²	1.0	.962	3.3X10 ²	2.2X10 ²	1.012	.955	3.0X10 ²	2.1X10 ²	1.001	.953	4.0X10 ²	3.5X10 ²	1.002	.948	2.6		.994	.950
46	4.0X10 ²	3.5X10 ²	1.05	.963	2.4X10 ²	2.5X10 ²	1.01	.96	3.5X10 ²	4.0X10 ²	.998	.96	3.3X10 ²	2.5X10 ²	1.01	.952	3.1X10 ²	2.5X10 ²	.999	.950	4.0X10 ²	3.0X10 ²	1.002	.946	2.4		.992	.948
47	4.0X10 ²	2.4X10 ²	1.03	.960	3.8X10 ²	3.5X10 ²	1.008	.965	3.5X10 ²	2.5X10 ²	.998	.958	1.9X10 ²	2.6X10 ²	1.006	.950	1.8X10 ²	2.4X10 ²	.995	.948	4.0X10 ²	3.5X10 ²	.998	.943	2.1		.989	.945
48	2.3X10 ²	3.5X10 ²	1.01	.865	3.5X10 ²	3.2X10 ²	1.006	.963	3.8X10 ²	2.7X10 ²	.998	.96	2.1X10 ²	2.5X10 ²	1.006	.953	1.9X10 ²	2.1X10 ²	.996	.951	2.5X10 ²	3.5X10 ²	.999	.948	1.8		.990	.942
49	2.4X10 ²	3.5X10 ²	1.014	.863	2.9X10 ²	3.5X10 ²	1.01	.962	2.3X10 ²	2.5X10 ²	1.0	.96	3.4X10 ²	2.4X10 ²	1.01	.954	2.3X10 ²	2.0X10 ²	1.0	.950	2.5X10 ²	3.5X10 ²	1.002	.946	2.7		.992	.948
50	4.0X10 ²	3.0X10 ²	1.005	.964	2.6X10 ²	4.0X10 ²	1.005	.968	2.5X10 ²	3.0X10 ²	.991	.96	2.1X10 ²	2.2X10 ²	1.002	.955	2.9X10 ²	2.2X10 ²	.992	.950	4.0X10 ²	3.0X10 ²	.995	.944	2.7		.988	.946
51	2.5X10 ²	3.0X10 ²	1.010	.970	3.0X10 ²	4.2X10 ²	1.006	.963	4.0X10 ²	3.5X10 ²	1.0	.963	2.1X10 ²	2.1X10 ²	1.011	.960	2.1X10 ²	2.5X10 ²	1.00	.954	3.0X10 ²	2.8X10 ²	1.002	.949	2.0		.992	.944
52	2.8X10 ²	2.5X10 ²	1.010	.966	3.0X10 ²	3.5X10 ²	1.01	.968	4.0X10 ²	3.0X10 ²	.998	.96	2.2X10 ²	2.4X10 ²	1.007	.956	2.2X10 ²	3.2X10 ²	.997	.951	3.0X10 ²	3.5X10 ²	.999	.948	3.0		.990	.949
53	2.7X10 ²	3.0X10 ²	.991	.970	3.0X10 ²	3.0X10 ²	1.009	.97	4.0X10 ²	3.0X10 ²	.98	.968	2.1X10 ²	2.7X10 ²	.990	.962	3.0X10 ²	2.8X10 ²	.980	.958	2.5X10 ²	3.5X10 ²	.983	.952	3.0		.973	.944
54	3.3X10 ²	3.5X10 ²	1.010	.970	3.0X10 ²	2.5X10 ²	1.005	.968	4.0X10 ²	2.5X10 ²	.996	.968	2.4X10 ²	3.7X10 ²	1.007	.960	2.0X10 ²	2.7X10 ²	.997	.958	3.5X10 ²	5.0X10 ²	.999	.951	1.8		.990	.950
55	2.1X10 ²	5.0X10 ²	1.015	.970	3.0X10 ²	3.5X10 ²	1.013	.962	4.0X10 ²	4.0X10 ²	.992	.968	2.0X10 ²	3.0X10 ²	1.003	.961	3.0X10 ²	2.8X10 ²	.992	.959	2.8X10 ²	4.0X10 ²	.997	.953	2.1		.988	.950
56	2.8X10 ²	4.0X10 ²	1.014	.968	3.0X10 ²	3.5X10 ²	1.013	.97	4.0X10 ²	4.0X10 ²	1.0	.968	2.1X10 ²	3.2X10 ²	1.012	.958	2.8X10 ²	2.1X10 ²	1.0	.953	3.0X10 ²	4.0X10 ²	1.002	.949	2.1		.994	.947
57	3.5X10 ²	3.0X10 ²	1.011	.961	3.0X10 ²	3.0X10 ²	.932	.665	2.5X10 ²	3.5X10 ²	1.0	.965	2.9X10 ²	2.2X10 ²	1.011	.953	2.9X10 ²	2.1X10 ²	1.00	.950	3.5X10 ²	2.8X10 ²	1.003	.944	2.6		.993	.944

Duquesne Light
Power Station
Shippingport

SUBJECT DL-S-225 Sec II SHEET NO. 1
Reactivity Lifetime
Daily Feed Activity & Flow
DIVISION COMPILED BY _____ CHECKED BY _____ DATE _____

Table VI

DATE TIME	No.1 Sample Train Activity (cps)	No.2 Sample Train Activity (cps)	No.1 Sample Train Flow (gpm)	No.2 Sample Train Flow (gpm)	No.1 Sample Train Activity (cps)	No.2 Sample Train Activity (cps)	No.1 Sample Train Flow (gpm)	No.2 Sample Train Flow (gpm)	No.1 Sample Train Activity (cps)	No.2 Sample Train Activity (cps)	No.1 Sample Train Flow (gpm)	No.2 Sample Train Flow (gpm)	No.1 Sample Train Activity (cps)	No.2 Sample Train Activity (cps)	No.1 Sample Train Flow (gpm)	No.2 Sample Train Flow (gpm)	No.1 Sample Train Activity (cps)	No.2 Sample Train Activity (cps)	No.1 Sample Train Flow (gpm)	No.2 Sample Train Flow (gpm)
10-13-58																				
10-14-58																				
10-15-58																				
10-16-58																				
10-17-58																				
10-18-58																				
10-19-58																				
20-10-58																				
20-11-58																				
20-12-58																				
20-13-58																				
20-14-58																				
20-15-58																				
20-16-58																				
20-17-58																				
20-18-58																				
20-19-58																				
20-20-58																				
20-21-58																				
20-22-58																				
20-23-58																				
20-24-58																				
20-25-58																				
20-26-58																				
20-27-58																				
20-28-58																				
20-29-58																				

Duquesne Light
Power Station
Shippingport

SUBJECT DI-S-225 Sec I SHEET NO. 8
COMPANY Reactivity Lifetime
DEPARTMENT Daily Feed Activity & Flow
DIVISION COMPILED BY CHECKED BY DATE

Table VI

DATE	No. 1 Sample Train Activity (cps)	No. 2 Sample Train Activity (cps)	No. 1 Sample Train Flow (gpm)	No. 2 Sample Train Flow (gpm)	No. 1 Sample Train Activity (cps)	No. 2 Sample Train Activity (cps)	No. 1 Sample Train Flow (gpm)	No. 2 Sample Train Flow (gpm)	No. 1 Sample Train Activity (cps)	No. 2 Sample Train Activity (cps)	No. 1 Sample Train Flow (gpm)	No. 2 Sample Train Flow (gpm)	No. 1 Sample Train Activity (cps)	No. 2 Sample Train Activity (cps)	No. 1 Sample Train Flow (gpm)	No. 2 Sample Train Flow (gpm)	No. 1 Sample Train Activity (cps)	No. 2 Sample Train Activity (cps)	No. 1 Sample Train Flow (gpm)	No. 2 Sample Train Flow (gpm)
10-13-58																				
TIME																				
30	1.9	2.7	.987	.944																
31	2.5	3.0	.988	.949																
32	2.4	2.2	.988	.945																
33	2.2	2.3	.985	.948																
34	2.5	2.3	.988	.947																
35	2.5	2.1	.989	.944																
36	2.7	3.0	.989	.948																
37	2.5	3.0	.989	.947																
38	2.2	1.9	.984	.945																
39	2.0	1.8	.988	.946																
40	2.8	2.5	.988	.945																
41	2.7	2.3	.989	.943																
42	2.0	1.9	.989	.941																
43	3.0	2.9	.989	.943																
44	3.0	2.4	.989	.941																
45	3.0	2.1	.991	.947																
46	3.1	2.4	.989	.943																
47	1.6	2.3	.986	.942																
48	1.7	2.2	.987	.946																
49	2.8	2.1	.990	.943																
50	2.9	1.9	.983	.942																
51	2.0	2.3	.990	.949																
52	1.9	2.4	.987	.943																
53	2.2	3.3	.971	.956																
54	1.7	2.6	.988	.949																
55	2.0	2.9	.983	.950																
56	2.2	2.0	.989	.947																
57	2.6	2.4	.989	.942																

Duquesne Light
Power Station
Shippingport

SUBJECT DI-5225 Sec I SHEET NO. 9
COMPANY Reactivity Lifetime
DEPARTMENT Daily Fecal Activity / Flow
DIVISION _____ COMPILED BY _____ CHECKED BY _____ DATE _____

Table VI

DATE	TIME	PORT NO.	No. 1 Sample Train Activity (cpm)	No. 2 Sample Train Activity (cpm)	No. 1 Sample Train Flow (gpm)	No. 2 Sample Train Flow (gpm)	No. 1 Sample Train Activity (cpm)	No. 2 Sample Train Activity (cpm)	No. 1 Sample Train Flow (gpm)	No. 2 Sample Train Flow (gpm)	No. 1 Sample Train Activity (cpm)	No. 2 Sample Train Activity (cpm)	No. 1 Sample Train Flow (gpm)	No. 2 Sample Train Flow (gpm)	No. 1 Sample Train Activity (cpm)	No. 2 Sample Train Activity (cpm)	No. 1 Sample Train Flow (gpm)	No. 2 Sample Train Flow (gpm)	No. 1 Sample Train Activity (cpm)	No. 2 Sample Train Activity (cpm)	No. 1 Sample Train Flow (gpm)	No. 2 Sample Train Flow (gpm)
10-20-58	0310 - 0608	1.7	2.0	.963	.910																	
2.1	2.5	.965	.932																			
3.1	2.8	.965	.930																			
4.1	2.7	2.2	.961	.931																		
5.1	1.7	2.6	.961	.930																		
6.1	2.2	2.4	.965	.935																		
7.1	2.4	2.2	.964	.934																		
8.1	2.6	2.4	.966	.939																		
9.1	2.7	2.3	.969	.935																		
10.1	2.7	2.3	.966	.935																		
11.1	2.0	2.8	.966	.933																		
12.1	2.7	3.1	.967	.931																		
13.1	2.6	2.6	.966	.932																		
14.1	2.8	2.4	.979	.939																		
15.1	2.9	2.4	.966	.933																		
16.1	1.8	2.4	.970	.936																		
17.1	2.1	2.3	.971	.932																		
18.1	2.7	2.4	.970	.932																		
19.1	2.4	2.4	.970	.931																		
20.1	2.8	2.5	.970	.941																		
21.1	2.3	2.6	.973	.939																		
22.1	2.2	2.2	.973	.935																		
23.1	2.7	2.1	.972	.933																		
24.1	2.0	2.6	.970	.933																		
25.1	2.1	2.4	.973	.939																		
26.1	2.1	2.3	.979	.939																		
27.1	2.2	2.3	.975	.937																		
28.1	2.3	2.1	.974	.939																		
29.1	2.2	2.8	.976	.937																		

CHART MISSING

Duquesne Light
Power Station
Shipping part

SUBJECT 01-5-225 Sec I SHEET NO. 10
COMPANY Reactivity Lifetime
DEPARTMENT Daily Fedal Activity & Flow
DIVISION Shipping part COMPILED BY CHECKED BY DATE

Table VI

PART NO.	No. 1 Sample Train Activity (cps)		No. 2 Sample Train Activity (cps)		No. 1 Sample Train Flow (gpm)		No. 2 Sample Train Flow (gpm)		No. 1 Sample Train Activity (cps)		No. 2 Sample Train Activity (cps)		No. 1 Sample Train Flow (gpm)		No. 2 Sample Train Flow (gpm)		No. 1 Sample Train Activity (cps)		No. 2 Sample Train Activity (cps)		No. 1 Sample Train Flow (gpm)		No. 2 Sample Train Flow (gpm)	
	10-20-58	0310-0608	10-21-58		10-22-58		10-23-58		10-24-58		10-25-58		10-26-58		10-27-58		10-28-58		10-29-58		10-30-58		10-31-58	
30	2.5	2.5	2.5	970	938				2.7	2.3	971	941	2.9	2.3	968	939								
31	2.0	2.9	971	940					2.1	2.7	973	945	2.2	2.7	970	942								
32	2.1	3.2	971	939					2.4	3.0	973	940	2.5	3.0	970	939								
33	2.2	2.3	970	939					2.5	2.2	970	941	2.7	2.2	968	941								
34	2.2	2.6	970	940					2.4	2.5	971	941	2.5	2.6	970	940								
35	2.2	2.2	973	939					2.6	2.2	973	940	2.7	2.3	970	939								
36	2.4	3.1	973	941					2.6	2.3	973	942	2.6	2.1	970	941								
37	2.6	3.2	975	939					2.7	2.1	973	941	3.0	2.8	971	940								
38	2.2	2.1	970	938					2.8	2.8	969	940	2.8	3.0	966	939								
39	2.0	2.0	975	939					2.7	3.0	971	940	2.4	2.0	970	939								
40	2.6	3.1	975	938					2.2	2.1	971	940	2.2	2.0	969	939								
41	2.6	2.5	976	937					2.1	2.0	972	940	3.2	2.6	970	938								
42	2.3	2.2	975	934					2.9	1.9	972	938	3.1	2.3	970	935								
43	3.0	2.6	975	939					2.8	2.5	971	940	2.2	2.0	970	939								
44	3.0	2.3	975	940					2.1	2.0	972	944	3.3	2.8	970	943								
45	3.0	2.2	978	939					3.2	2.8	973	941	3.3	2.2	973	940								
46	3.1	2.5	975	938					3.1	2.3	972	940	3.3	2.1	970	936								
47	1.9	2.5	973	935					3.2	2.2	970	938	3.5	2.3	967	933								
48	1.8	2.6	972	939					2.0	2.2	970	941	2.2	2.3	968	938								
49	2.0	2.5	978	938					2.7	2.2	974	941	2.3	2.3	973	935								
50	3.1	2.3	970	936					3.1	2.2	966	939	3.6	2.1	966	933								
51	2.1	2.1	979	940					2.2	2.0	975	943	2.5	2.0	971	940								
52	2.1	2.6	974	938					2.2	2.2	971	941	2.5	2.2	969	937								
53	2.1	3.1	960	943					2.1	2.5	958	947	2.5	2.4	952	942								
54	2.3	3.0	973	941					2.6	2.8	972	946	2.7	3.0	970	942								
55	2.0	2.6	970	943					2.1	2.7	970	946	2.3	2.7	968	942								
56	2.4	2.2	977	946					2.5	2.5	978	941	2.6	2.8	973	939								
57	2.8	2.7	973	935					3.0	2.5	975	939	3.0	2.1	972	936								

CHART
MISSING

DUQUESNE LIGHT COMPANY
POWER STATIONS DEPARTMENT
SHIPPINGPORT ATOMIC POWER STATION

DL-S-225 (T-612118A)
REACTIVITY LIFETIME, SECTION I
SECOND PERFORMANCE,

TABLE VII

Log of Events

Date	Time	
9-22-58	0330	Completed nuclear instrumentation alignment and obtained BF ₃ curves for channels B and C. A BF ₃ curve for Channel A could not be obtained because of erratic conditions.
	0345	Placed FEDAL on Port No. 53 per Test Procedure DL-S-229.
	0441	Starting to withdraw rods to obtain criticality.
	0513	Obtained criticality with 2's at 22.42" and 6's at 22.48". Primary pressure at 1800 psig, temperature at 503.5 F; SUR of .4 dec./min.
	0515	Motor operated steam stop valves opened.
	0517	Realigned 2's and 6's. Lowered 6's .1 inch.
	0530	Steam to turbine.
	0628	Synchronized Main Unit.
	0645	Placed No. 1 rod drive M. G. set in service. Shutdown No. 2 rod drive M. G. Set.
	0710	Obtained 37 MW gross output.
	0715	Heater drain pump on
	0725	Adjusted gain on all channels based on secondary calorimetric of 62 per cent.
	0748	Increased load to 57 MW net.
	0800	EFPN at 1785.3.
	0830	Completed calorimetric, obtained 94.1 per cent. Adjusted gains so that all channels read 94 per cent.
	1023	Placed FEDAL in "AUTO" position.
	1055	1A Circulating pump placed in service.

DUQUESNE LIGHT COMPANY
POWER STATIONS DEPARTMENT
SHIPPINGPORT ATOMIC POWER STATION

DL-S-225 (T-612118A)
REACTIVITY LIFETIME, SECTION I
SECOND PERFORMANCE, 0

TABLE VII (cont'd)

Log of Events

Date	Time	
9-22-58	1300	40 cubic feet of H2 added to primary system.
	1600	Gross output 65 MW.
	1605	Increased load to 67 MW gross.
	1804	Increased load to 60 MW net. Started 24 hours of readings for Part VI-C-1 of test procedure.
	1906	Reactor placed on "AUTOMATIC" control.
	2100	Lowered 6's - 0.25 inches to align them in the bank with the 2's.
9-23-58	1020	Reactor placed on "MANUAL" control.
	1055	Reactor placed on "AUTOMATIC" control.
	1446	Reactor placed on "MANUAL" control.
	1950	SRE adjusted N.I. gain by his one hour calorimetric to give 100%.
	2015	Increased load 1 MW to 60 MW net (integrated).
9-24-58	0356	Load swing of 60 MW to 56 MW net caused by bump on system.
	0640	De Laval Oil Separator tripped out. Restarted again.
	1330	Reactor placed on "AUTOMATIC" control.
	1600	35 cubic feet of H2 added to primary system.
	2010	Reactor placed on manual control.
	2330	Blow-off tank purged.
9-25-58	0200	Channel "E" Power Range was acting erratic from 2400 to about 0100.
	0320	Obtained valid calorimetric = 103.8%. NI average = 101.1%. Channel "D" Power Range indicator remained 5% higher after 100% ion current check.

DUQUESNE LIGHT COMPANY
POWER STATIONS DEPARTMENT
SHIPPINGPORT ATOMIC POWER STATION

DL-S-225 (T-612118A)
REACTIVITY LIFETIME, SECTION I
SECOND PERFORMANCE,

TABLE VII (Cont'd)

Log of Events

Date	Time	Event
9-25-58	1010	No. 62 rod bottom position light observed on. Rod in normal position.
	1500	No. 62 rod bottom magamp adjusted.
	1515	60 cubic feet of H2 added to primary system.
9-27-58	0125	Shutdown No. 1 FEDAL flow-recorders, slidewire trouble.
	0625	De Laval Oil Separator tripped off. Restarted again.
	0835	Flux time integrator erratic.
	1020	Load drifted up to 61.7 MW net at 500.5 F. Tavg. Tavg corrected to 499.9 F dropping load 3/4 MW. Load drifted due to decreased frequency of system.
	1100	FEDAL flow recorder in service.
	1233	Removed flux time integrator from service.
	1500	Flux time integrator in service. Add 1.8 hrs. to readings to compensate for time integrator was out of service.
	1600	Completed alignment of intermediate range (all four channels). Also checked "ZERO" on all power ranges. Razered B and D channels and readjusted gains in order to obtain 100% ion current levels.
	1840	Dropped load 0.8 MW to 60 MW.net.
	2030	60 cubic feet of H2 added to primary system.
9-28-58	0045	Channel 10 ORMS Mechanical Failure Alarm. Shutdown vacuum pump.
	2400	EPFH at 1943.3 (corrected).

TABLE VII (cont'd)

Log of Events

<u>Date</u>	<u>Time</u>	
9-29-58	0500	High seed exit water temperature alarm sounded. Apparently thermocouple L-10-2 is open.
	1100	Adjusted flow for PEDAL System. No. 1 sample flow 1.3 gpm, No. 2 sample flow 1.3 gpm.
	1400	P and T inverse period signal pen adjusted to agree with scale reading. Before this the pen indicated - 0.4 F while the pointer indicated 0 F for the scale.
	1500	Completed comparison data between test meters and the four CIC current meters at the NI chassis.
	2020	Started taking 3 hour calorimetrics because the NI was 4 per cent below secondary calorimetric.
	2320	Finished calorimetrics. No adjustments necessary.
	1600	AC hairpin loop vented and put in service.
	2400	
9-30-58	0033	Lowered 6's - 0.2" to correct for rod height difference in controlling rod groups 2 and 6.
	0840	Received false "high temperature alarm" on PT 53 (Rod stator No. 62) - Indicated 120 F.
	1100	Interchanged Channel "C" and "D" low voltage power supply. Realigned Channel "D". Channel 10 ORMS placed in service.
	1400	Adjusted P and T System. Adjusted rods in, rods in D/G, rods out and rods out D/D.
	1630	Completed work on "Seed Exit and Inlet Water Temperature" recorder. Recorder relay was sticking.
	1800	35 ft ³ H ₂ added to primary system.
	1830	Completed NI Intermediate Range alignment on all channels.

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SECOND PERFORMANCE

TABLE VII (cont'd)

Log of Events

<u>Date</u>	<u>Time</u>	
10-1-58	1000	Seed Exit Water Temperature recorder was repaired.
	1410	35 ft ³ H ₂ added to primary system.
	1655	Channel "D" Power Range Linear amplifier removed from service, reactor in coincidence.
	1800	Installed S-2W spare power range amplifier chassis. Adjusted gain so that 100 per cent test signal = 5.66 μ A.
	1905	Completed resetting "D" channel NI mag amps.
	1910	Obtained safety insertion signal when the SI reactor protection test set switch was replaced from the "B" to the OPER position. Apparent cause Channel "D" 119 per cent mag amp was still picked up when the power range Channel "D" test operate was placed in the operate position when the power level indication was reduced to 100 per cent. Since the drop out of 119 per cent mag amp is 97 per cent the mag amp was still picked up. A safety insertion reduced power level to 97 per cent from 100 per cent which dropped out the SI signal. Plant temperature which had dropped approximately 1/2 F was recovered.
	2100	Removed "D" CIC cables and checked zero and adjusted same, reset gain.
		NOTE: "D" recorder is reading about 5 per cent lower than power range meter indication (S-2W).
10-2-58	1345	Changed sampling time on FEDAL System from 3 minutes to 4 minutes 32 seconds.
	0800	30 ft ³ H ₂ added to primary system.
	1600	
10-3-58	0000	It was noticed that the FEDAL System was not functioning properly. The top position indicator light was lit at all times. All other indicator lights were out. System was found to be 6 parts out of adjustment. Situation corrected.

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TABLE VII (cont'd)

Log of Events

<u>Date</u>	<u>Time</u>	
10-3-58	1400	Adjusted FEDAL sampling time from 4 minutes 32 seconds to 3 minutes. Removed S-2W power range linear level chassis from Channel "D" and installed repaired chassis.
	1630	Placed Channel "D" in service.
	2200	DL-S-225 definition of a valid secondary calorimetric has been altered from 6 per cent to 5.5 ± 2 per cent of primary calorimetric.
10-4-58	0130	30 ft ³ H ₂ added to primary system.
	1435	NOTE: Channel "D" 114 per cent Bistable mag amp (3N4) fired initially at 57 per cent, reset to 113 per cent. Point 23 on Seed Exit Water Temperature recorder (10L-2) drifting upscale. Trouble probably is in the recorder.
10-5-58	0245	Checked closing and opening of circulating water pump butterfly valves. A checked OK but B valve would not close.
	0415	Rod bottom light for rod No. 22 came on. Adjusted pick up and spread to correct.
	1515	50 ft ³ H ₂ added to primary system.
	1530	Pressurizer relief valves indicator light contactors out of alignment.
	1830	Received false high temperature alarm on temperature monitor point No. 7 (1A Reactor Relief Valve). Temperature indication 107 F.
10-6-58	0100	Rod No. 62 bottom light on. Adjusted mag amp to correct.
	1535	Chemistry is now using three sample trains instead of two. Flow rate should be 120 lb/hr.
	2230	False high temperature alarm on No. 62 rod stator. Could not reset alarm.

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TABLE VII (cont'd)

Log of Events

<u>Date</u>	<u>Time</u>	
10-7-58	1615	High exit (seed) water temperature alarm No. 17.
	1900	Channel "C" was reading low, started taking 1/2 hour readings.
	1930	35 ft ³ H ₂ added to primary system.
	2130	Power oscillation peaked at 6.7 per cent above the average level of 100.7 per cent.
10-8-58	0143	False high temperature alarm No. 62 rod motor. Indicated temperature 125 F.
10-9-58	1330	Recalibrated nuclear instrumentation. New base calibration currents: Channel A 25.42 Channel B 47.0 Channel C 26.79 Channel D 5.42
	1600	Half hour readings started because of per cent power readings deviating above the prescribed amount.
	2100	Rechecked D Channel mag amps. Received several false alarms on Point 9 temperature monitor.
10-10-58	0030	Test current meter on Channel "C" found to be sticking. Half-hour readings ended.
	0040	Found component cooling water expansion tank vent valve closed.
	0100	Had ground on reactor plant DC - annunciator cell grounded at EWD. Three hours of calorimetrics begun.
	0600	Recalibrated nuclear instrumentation. New base calibration currents: Channel A 24.8 Channel B 46.0 Channel C 26.5 Channel D 5.30

TABLE VII (cont'd)

Log of Events

<u>Date</u>	<u>Time</u>	
10-10-58	0900	Channel No. 10 ORMS chassis removed for design modifications on "MECH FAILURE" alarm circuitry.
	1450	35 ft ³ H ₂ added to primary system.
	1730	Commenced half-hour readings.
	1810	FEDAL System placed out of service - not operating properly.
10-11-58	1540	ORMS - Channels 10 and 11 back in service. Channel 9 out of service.
	1900	"B" channel is 7.5 per cent higher than the average power level.
	1913	Transferring Rods 22 and 61 to spare bus 1 and 2 respectively.
	1921	Lowered rods 22 and 61 1.00 inch.
	1925	Banked 2's and 6's raised 0.25 inches.
	1927	Banked 2's and 6's raised 0.25 inches.
	1934	Lowered rods 22 and 61 0.25 inch.
	2046	Raised rods 22 and 61 0.25 inch.
	2049	Banked 2's and 6's lowered 0.25 inch.
	2059	Raised rods 22 and 61 0.10 inch.
	2103	Raised rods 22 and 61 0.15 inch.
	2109	Raised rods 22 and 61 0.25 inch.
	2144	Raised rods 22 and 61 0.25 inch.
	2226	Lowered rods 22 and 61 0.10 inch.
	2227	Lowered banked 2's and 6's 0.10 inch.
	2228	Raised rods 22 and 61 0.25 inch.

TABLE VII (cont'd)

Log of Events

<u>Date</u>	<u>Time</u>	
10-12-58	0029	Raised rods 22 and 61 .15 inch. Lowered 2's and 6's .10". All rods level.
	0123	All 2's and 6's (including 22 and 61) raised .05 inch to correct for temperature.
	0208	2's and 6's raised .03 inch to correct temperature.
	0212	2's and 6's raised .02 inch to correct temperature.
	0230	2's and 6's raised .05 inch to correct temperature.
	0236	2's and 6's raised .05 inch to correct temperature.
	0251	2's and 6's raised .05 inch to correct tilt and temperature.
	0350	22 and 61 lowered .10 inch to correct tilt.
	0509	22 and 61 lowered 0.10 inch.
	0550	2's and 6's raised .05 inch.
	0551	2's and 6's raised .15 inch.
	0621	2's and 6's raised .05 inch. 22 and 61 lowered 0.1 inches.
	0740	Rod 22 lowered .03 inch. All rods transferred to normal inverters.
	1430	Started 1/2 hour readings. "C" channel 5.7 per cent lower than average. 50 ft ³ H ₂ added to primary system.
	1620	6's lowered .22 inch to bring into bank.
	2300	Mechanical failure alarm Channel 9 ORMS. Channel placed out of service.
10-13-58	1100	Charging of the primary system was delayed for about an hour because of an increasing conductivity reading on recorder. Chemists obtained a sample and reports that water is within specifications. It appears that the conductivity cell is not functioning correctly.

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TABLE VII (cont'd)

Log of Events

<u>Date</u>	<u>Time</u>	
10-14-58	0455	Received "LOW SEED FLOW" alarm on Point 5 (core position F12). Possibly the switch failed to make proper contact on this one occasion.
	0830	Pulled mechanical failure relay for Channel No. 11 ORMS to clear annunciator panel.
	1100	Observed PEDAL System to be malfunctioning.
	1420	Rods No. 23 and 62 transferred to their spare inverters Channel "A" 7.5 per cent above NI average. Flux time integrator recorder adjusted.
	1425	2's and 6's (except No. 23 and 62) raised .13 inch.
	1430	No. 23 and 62 lowered .9 inch. 2's and 6's lowered .127 inch to correct for temperature.
	1443	No. 23 and 62 lowered .8 inch.
	1442	2's and 6's (except No. 23 and 62) raised .263 inch.
	1553	No. 23 and 62 raised .22 inch.
	1555	2's and 6's lowered .25 inch.
	1559	No. 23 and 62 raised .25 inch.
	1608	No. 23 and 62 raised .25 inch.
	1610	No. 23 and 62 raised .25 inch.
	1614	2's and 6's lowered .25 inch.
	1616	No. 23 and 62 raised .25 inch.
	1620	No. 23 and 62 raised .25 inch.

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TABLE VII (cont'd)

Log of Events

<u>Date</u>	<u>Time</u>	
10-14-58	1628	2's and 6's lowered .25 inch.
	1630	No. 23 and 62 raised .25 inch.
	-----	No. 23 and 62 raised .35 inch.
	-----	2's and 6's raised .25 inch.
	-----	2's and 6's lowered .1 inch.
	2250	15 ft ³ H ₂ added to primary system.
	2305	Placed FEDAL control in "HOLD".
	2345	No. 23 and 62 lowered .1 inch. They are same height as the bank.
	2353	2's and 6's raised .05 inch.
	2356	2's and 6's raised .05 inch.
10-15-58	0013	2's and 6's raised .05 inch.
	0055	2's and 6's raised .05 inch.
	0245	23 and 62 raised .10 inch to average bank height and placed back on normal inverters. One-half hour readings terminated at 0230.
	0245	FEDAL charts were not marked (every 15 minutes) for FEDAL would not operate in "AUTO" position. It would not move to next port.
10-16-58	1330	35 ft ³ H ₂ added to primary system.
10-17-58	0155	Received "AIR PARTICLE DETECTOR MECHANICAL FAILURE" alarm from Channel 11 ORMS.
	-----	Purged blow-off tank.
	1000	Channel 9 ORMS returned to service.

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TABLE VII (cont'd)

Log of Events

<u>Date</u>	<u>Time</u>									
10-17-58	1300	Recalibrated nuclear instrumentation. New base calibration currents: Channel A 24.0 Channel B 44.5 Channel C 25.6 Channel D 5.12								
	----	Condensate demineralizer regenerated by Chemistry.								
10-18-58	----	Hydrogen pressure on main unit generator raised to 4 psi.								
	1430	35 ft ³ H ₂ added to primary system.								
	1630	Recalibrated nuclear instrumentation. New base calibration currents: Channel A 24.0 Channel B 44.4 Channel C 25.3 Channel D 5.11								
10-20-58	0900	FEDAL activity recorder back in service.								
10-21-58	0110	Blow off tank purged.								
10-22-58	0200	Raised generator H ₂ pressure to 4.5 psig.								
	0830	High activity shown on FEDAL activity recorder No. 2.								
10-23-58	1246	Completed adjustment on P and T System set point to the following valves as read on the P and T System Recorder scale:								
		<table border="0"> <thead> <tr> <th><u>Rods Out</u></th> <th><u>Rods Out</u></th> <th><u>Rods In</u></th> <th><u>Rods In</u></th> </tr> </thead> <tbody> <tr> <td>ΔT -1.0 F</td> <td>DO/PU .7</td> <td>ΔT +1.0 F</td> <td>DO/PU .7</td> </tr> </tbody> </table>	<u>Rods Out</u>	<u>Rods Out</u>	<u>Rods In</u>	<u>Rods In</u>	ΔT -1.0 F	DO/PU .7	ΔT +1.0 F	DO/PU .7
<u>Rods Out</u>	<u>Rods Out</u>	<u>Rods In</u>	<u>Rods In</u>							
ΔT -1.0 F	DO/PU .7	ΔT +1.0 F	DO/PU .7							
		Placed reactor control in "AUTO".								

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TABLE VII (cont'd)

Log of Events

<u>Date</u>	<u>Time</u>	
10-23-58	1341	Set PEDAL No. 2 activity monitor "HIGH ACTIVITY" set points at 2000 counts to enable personnel to know when an indicated high activity occurs and to determine the cause.
10-24-58	0800	DL-S-225, Section I completed - EFPH = 2543.5.

TEST RESULTS DL-S-225

(T-612118A)

REACTIVITY LIFETIME, SECTION I, SECOND PERFORMANCE (cont'd)

Test Performed By H. A. Santel & J. F. Holliday per WOS Date 3-2-59

Results Prepared By J. McTurk per O&C Date 3-2-59

Results Checked By Edward Jones Date 3-2-59

Approved (Duquesne Light Company) Charles L. Jones Date 3-4-59

Accepted (Atomic Energy Commission) R. M. Forrell Date 3-2-59