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HANFORD ATOMIC PRODUCTS OPERATION - RICHLAND, WASHINGTON

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1965 Reactor Daily Report
January 1, 1965 thru December 31, 1965

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TITLE: 1965 Reactor Daily Reports January 1, 1965 thru December 31, 1965

CLASSIFICATION: RL-REA-345 RD **ROUGH DRAFT**

AUTHOR: D. L. DeNeal

DATE: January 1, 1965

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HW RL-REA-345 RD
COPY 3 OF 3 SERIES A

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ROUGH DRAFT

AFTER FILL-IN

REACTOR OPERATIONS DAILY REPORT

DATE 1-1-67

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1896	0	2029		1900	2135	0	4400	7345	4400	12345
2. MAXIMUM POWER LEVEL - MW	1896	0	2029		1900	2135	0	4400	7335	4400	12335
3. INPUT PRODUCTION - MWD	1896	0	2029		1896	2129	0	4400	7906	4400	12306
4. OUTAGE HOURS	0	24.0	0		0	0	24.0	0	24.0	24.0	48.0
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD										LINE 5 TOTALS IN KWWD'S	
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	5.5	5.2	5.2	6.9	6.9	6.6	6.0	3.9		INPUT PROD. FORECAST FOR MO.	
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	86.8	9.2	93.0	9.3	89.0	93.6	C.U.	84.5		TIME OPER. EFF. - MO-TO-DATE	
8. REACTOR WATER FLOW RATE AT 2330- GPM ± 1000	88.1	8.2	89.0	5.3	88.2	93.2	14.2	206.5		TIME OPER. EFF. - 30 DAY AVG.	
9. FACTOR LIMITING POWER LEVEL	T.A.I.		P.O.		N.E.	B.O.		E.A.L.		TIME OPER. EFF. FORECAST FOR MO.	
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.		N.		19	N.		N.			
11. ESTIMATED STARTUP TIME											

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
	0	0	0	0	0	0	0		0	278.0

REMARKS: 0 - The stack rupture was removed from tube 3369 using 6500 lbs. pressure.

10 - Reactor is 53% discharged.

10 - Charge-discharge is in progress including the loading of fringe thoris.

ROUGH DRAFT

AFTER FILL-IN

ROUGH DRAFT

AFTER FILL-IN

REACTOR OPERATIONS DAILY REPORT

DATE

102065

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	19.5	2130	0		1900	2140	0	4400	8075	4400	12475
2. MAXIMUM POWER LEVEL - MW	1895	1965	2035		1900	2140	0	4400	9935	4400	14335
3. INPUT PRODUCTION - MWD	1861	863	1139		1900	2136	0	4400	7919	4400	12319
4. OUTAGE HOURS	0	11.5	10.6		0	0	24.0	0	22.1	24.0	46.1
5. INPUT PRODUCTION VARIANCE FROM FORECAST-W-T-D - MWD									LINE 5 TOTALS IN KWWD'S		
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	5.5	5.3	5.9	6.9	6.5	5.9	5.9	4.3	INPUT PROD. FORECAST FOR MO.		
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	88.1	8.1	7.1	9.3	89.0	93.2	C.V.	85.0	TIME OPER. EFF. - MO-TO-DATE		
8. REACTOR WATER FLOW RATE AT 2330- GPM ± 1000	88.0	98.5	5.8	5.3	87.8	93.2	8.3	206.5	TIME OPER. EFF. - 30 DAY AVG.		
9. FACTOR LIMITING POWER LEVEL	T.A.I.	N.E.			N.E.	B.O.		E.A.I.	TIME OPER. EFF. FORECAST FOR MO.		
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.	N.			24	N.		20			
11. ESTIMATED STARTUP TIME	DATE										
	HOUR										

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
	1	0	0	0	0	0	0	7	0	317.0

REMARKS:

C - Resumed operation at 1132 hrs.

D - Reactor scrambled at 1326 hrs. due to a stuck I&E natural metal rupture in tube 2664.

DR - Reactor is 83% discharged.

H - Achieved a new maximum power level of 2140 MW.

KE - Charge-discharge is continuing.

ROUGH DRAFT

AFTER FILL-IN

ROUGH DRAFT
AFTER FILL-IN

REACTOR OPERATIONS DAILY REPORT

DATE 1-5-65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1915	2185	1450		1935	2125	4400	4400	9210	8800	18010
2. MAXIMUM POWER LEVEL - MW	1910	2150	0		1930	2140	4360	4400	8130	8760	16890
3. INPUT PRODUCTION - MWD	1007	2103	0		1911	2135	2011	4400	8056	6411	14467
4. OUTAGE HOURS	0	0	24		0	0	10.6	0	24.0	10.6	34.6
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD									LINE 5 TOTALS IN KWWD'S		
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	5.6	5.5	6.0	5.7	7.3	6.9	4.8	4.4	INPUT PROD. FORECAST FOR MO.		
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	88.9	89.0	7.3	5.9	90.5	94.0	83.9	85.0	TIME OPER. EFF. - MO-TO-DATE		
8. REACTOR WATER FLOW RATE AT 2330- GPM ± 1000	87.9	98.9	81.5	2.8	88.1	93.1	208.0	206.5	TIME OPER. EFF. - 30 DAY AVG.		
9. FACTOR LIMITING POWER LEVEL	T.A.I.	N.E.			N.E.	B.O.	N.E.	E.A.L.	TIME OPER. EFF. FORECAST FOR MO.		
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.	12			12	N.	N.	N.			
11. ESTIMATED STARTUP TIME											

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
	1	0	0	0	0	0	0	7	0	361.0

REMARKS:

D - The stuck rupture was removed from tube 2664 after cutting downstream ribs.

DR - All process tubes have been discharged and verified as empty.

KE - Resumed operation at 1039 hrs.

1-4-65 (12-8)

D - Resumed operation at 0045 hrs.

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7	100-H	1704	W. J. Ferguson
8	100-K	1720	C. G. Lewis
9	300	326	E. M. Woodruff
10		3703	R. B. Hall
11	White Bluffs	T-26	J. R. Young
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13	700	703	A. B. Greninger

ROUGH DRAFT

AFTER FILL-IN

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REACTOR OPERATIONS DAILY REPORT

DATE 1-4-65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1925	2210	1675		1935	2135	4400	0	9880	4400	14280
2. MAXIMUM POWER LEVEL - MW	1915	2210	1550		1935	2130	4400	4400	9740	8800	18540
3. INPUT PRODUCTION - MWD	1914	2191	1170		1934	2127	4400	2828	9336	7228	16564
4. OUTAGE HOURS	0	0	0.8		0	0	0	8.6	0.8	8.6	9.4
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-O - MWD	+1774	-2107	-2566		+1149	+1587	-5873	+3100	-0.2	-2.8	-3.0
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	5.4	5.4	5.3		6.9	6.4	4.7	5.6	LINE 5 TOTALS IN KWWD'S		
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	88.6	90.1	71.5		90.6	93.3	85.0	11.8	INPUT PROD. FORECAST FOR MO.		
8. REACTOR WATER FLOW RATE AT 2330- GPM ± 100	88.1	99.3	88.8		88.1	93.3	208.5	13.5	258.7	195.4	454.1
9. FACTOR LIMITING POWER LEVEL	T.A.I.	N.E.	N.E.		N.E.	B.O.	E.A.L.		TIME OPER. EFF. - MO-TO-DATE		
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.	N.	N.		11	N.	N.		85.2	65.0	79.4
11. ESTIMATED STARTUP TIME								1-9-65	79.4	90.3	82.5
								1200	TIME OPER. EFF. FORECAST FOR MO.		
									84.6	75.1	81.9

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
	1	0	0	0	0	0	1	6	1	365.0

REMARKS:

D - Resumed operation at 0046 hrs. concluding a rupture outage.

KW - Reactor shut down at 1526 hrs. due to the questionable integrity (broken strands) of a front face connector. Charge-discharge, including the loading of thorium, scheduled for 1-5-65 will be completed.

DR - Process water to the reactor was turned off at 0018 hrs.

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ROUGH DRAFT
AFTER FILL-IN

This document classified by

REACTOR OPERATIONS DAILY REPORT

DATE 1-5-65

	B	C	D	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1930	2210	1810	1940	2135	4400	0	10025	4400	14425
2. MAXIMUM POWER LEVEL - MW	1925	2210	1775	1940	2135	4400	0	9985	4400	14385
3. INPUT PRODUCTION - MWD	1924	2210	1680	1936	2135	4400	0	9885	4400	14285
4. OUTAGE HOURS	0	0	0	0	0	0	24.0	0	24.0	24.0
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	+2253	-1713	-2612	+1462	+1987	-4544	-132	+1.4	-4.7	-3.3
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	5.7	5.6	5.5	7.3	6.5	4.8	5.4	LINE 8 TOTALS IN KWWD'S		
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	89.3	90.9	81.8	90.9	93.8	85.2	C.U.	258.7	195.4	454.1
8. REACTOR WATER FLOW RATE AT 2330- GPM ± 1000	88.3	100.1	89.0	87.9	93.0	208.5	16.0	88.2	62.0	80.7
9. FACTOR LIMITING POWER LEVEL	T.A.I.	G.*	N.E.	B.O.	B.O.	E.A.L.		72.5	88.7	82.1
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.	N.	N.	N.	N.	N.		TIME OPER. EFF. - 30 DAY AVG.		
11. ESTIMATED STARTUP TIME							1-9-65	84.6	75.1	81.9
							1200			

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
	1	0	0	0	0	0	1	6	1	303.0

REMARKS:

*C - Line 9 Graphite due to low reactivity caused by thorium loading.

KW - Reactor continuing charge-discharge.

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ROUGH DRAFT
AFTER FILL-IN

REACTOR OPERATIONS DAILY REPORT

This document classified by

DATE 1-6-65

E

	C	D	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	0	2210	1950	0	4400	0	6140	4400	10540
2. MAXIMUM POWER LEVEL - MW	1935	2210	1945	2135	4400	0	10175	4400	14575
3. INPUT PRODUCTION - MWD	1931	2210	1943	1386	4400	0	9315	4400	13715
4. OUTAGE HOURS	0	0	0	8.4	0	24.0	8.4	24.0	32.4
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	+2739	-1319	+1782	+1638	-3215	-3364	+2.3	-6.6	-4.3
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	5.7	5.7	6.8	8.1	4.9	5.3			
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	89.9	90.4	90.9	21.3	85.3	C.U.			
8. REACTOR WATER FLOW RATE AT 2330- GPM ± 1000	88.4	99.9	88.1	26.3	208.5	12.3			
9. FACTOR LIMITING POWER LEVEL	T.A.I.	G.	I.A.L.		E.A.L.				
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.	N.	N.		N.				
11. ESTIMATED STARTUP TIME	1-11-65 2000			1-8-65 0400		1-8-65 2359	84.6	75.1	81.9

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS		RECOVERIES		SCHEDULED OUTAGES		OTHER OUTAGES		DAILY PEAK ELECT. DEMAND - MEGAWATTS
	MAT.	ENR.	TUBE	V.S.					COMPLETED	REMAINING			
	3	0	0	0	0	0	0	0	2	5	1		303.0

REMARKS:

H - Reactor shut down at 1535 hrs. for the removal of a stuck I&E natural metal rupture from tube 0880.

KW - Reactor continuing down for scheduled charge-discharge and maintenance.

F - Item 9 - Progression to new graphite limits authorized by PT-725.

1-7-65(12-8)

B - Reactor shut down at 0738 hrs. for the removal of an I&E natural metal rupture from tube 1380. The reactor will remain down for scheduled work planned for 1-11-65.

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7	100-H	1704	W. J. Ferguson
8	100-K	1720	C. G. Lewis
9	300	326	E. M. Woodruff
10		3703	R. B. Hall
11	White Bluffs	T-26	J. R. Young
12	100-H	1704	Roy E. Dunn - H. G. Spencer
13	700	703	A. B. Greninger

ROUGH DRAFT
AFTER FILL-IN

REACTOR OPERATIONS DAILY REPORT

DATE 1-7-65

This document classified by

John C. [Signature]

1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
2. MAXIMUM POWER LEVEL - MW	0	2215	2035		1975	1320	4400	0	7545	4400	11945
3. INPUT PRODUCTION - MWD	1940	2210	2035		1970	0	4400	0	8155	4400	12555
4. OUTAGE HOURS	609	2210	1997		1956	0	4400	0	6772	4400	11172
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	16.4	0	0		0	24.0	0	24.0	40.4	24.0	64.4
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	+1903	-925	-2222		+2115	-97	-1886	-6596	+0.8	LINE 8 TOTALS IN KWWD'S -8.5	-7.7
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	8.0	5.8	5.2		6.7	6.3	5.0	6.0	258.7	195.4	454.1
8. REACTOR WATER FLOW RATE AT 2330- GPN + 1000	15.9	91.0	93.0		91.5	8.9	85.4	C.U.	85.8	58.6	78.0
9. FACTOR LIMITING POWER LEVEL	6.1	99.5	89.0		88.4	84.8	208.5	13.0	79.7	85.4	81.3
10. DAILY ABNORMAL WATER COLLECTION - GALS.		G.	N.E.		I.A.L.		E.A.L.		84.6	75.1	81.9
11. ESTIMATED STARTUP TIME	DATE 1-11-65 HOUR 2000	N.	N.		N.		N.		TIME OPER. EFF. - 30 DAY AVE.	TIME OPER. EFF. FORECAST FOR MO.	

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES	WATER LEAKS	SCRAMS	RECOVERIES	SCHEDULED OUTAGES	OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	Y.S.	COMPLETED	REMAINING	
	3	0	0	0	0	4	272.0

REMARKS:

B - Reactor shut down at 0738 hrs. for the removal of an I&E natural metal rupture from tube 1380. Scheduled charge-discharge and maintenance are in progress.

H - The stuck I&E natural metal rupture was removed from tube 0880 using 4500 lbs. pressure.

KW - Reactor continuing down for scheduled charge-discharge and maintenance.

1-8-65 (12-8)

H - Resumed operation at 0030 hrs.

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REACTOR OPERATIONS DAILY REPORT

DATE 1-8-65

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Clayton D. Smith

	B	C	D	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	0	2225	2045	1990	1935	4400	0	8195	4400	12595
2. MAXIMUM POWER LEVEL - MW	0	2225	2040	1990	1880	4400	0	8135	4400	12535
3. INPUT PRODUCTION - MWD	0	2220	2035	1980	1427	4400	0	7662	4400	12062
4. OUTAGE HOURS	24.0	0	0	0	0.5	0	24.0	24.5	24.0	48.5
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD								LINE 8 TOTALS IN KWWD'S		
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	8.3	6.1	5.1	6.7	6.2	5.1	6.0	INPUT PROD. FORECAST FOR MO.		
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	12.5	91.3	93.1	92.2	81.7	85.5	C.U.	TIME OPER. EFF. - MO-TO-DATE		
8. REACTOR WATER FLOW RATE AT 2330- GPM ± 1000	8.0	99.6	88.9	88.4	92.8	208.5	12.8	TIME OPER. EFF. - 30 DAY AVG.		
9. FACTOR LIMITING POWER LEVEL		G ₂	B.O.	I.A.L.	N.E.	E.A.L.		TIME OPER. EFF. FORECAST FOR MO.		
10. DAILY ABNORMAL WATER COLLECTION - GALS.		N.	N.	N.	N.	N.				
11. ESTIMATED STARTUP TIME	DATE									
	HOUR									

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
3		0	0	0	0	0	2	4	1	325.0

REMARKS:
B -The I&E natural metal rupture was removed from tube 1380 using 8000 lbs. pressure. Charge-discharge in Progress.

H -Resumed operation at 0030 hrs.

KW -Completed charge-discharge.

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ROUGH DRAFT
AFTER FILL-IN

REACTOR OPERATIONS DAILY REPORT

DATE 1-9-65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	0	2225	2050		2000	2050	4400	3630	8325	8030	16355
2. MAXIMUM POWER LEVEL - MW	0	2225	2050		1995	2050	4400	3300	8320	7700	16020
3. INPUT PRODUCTION - MWD	0	2225	2045		1991	1984	4400	447 432	8245	4847 4832	13692 13677
4. OUTAGE HOURS	24.0	0	0		0	0	0	18.1	24.0	18.1	42.1
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD											LINE 5 TOTALS IN KWWD'S
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	9.5	6.2	5.6		7.2	6.7	5.1	5.0			INPUT PROD. FORECAST FOR MO.
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	11.9	92.0	94.1		92.8	89.8	85.6	64.2			TIME OPER. EFF. - MO-TO-DATE
8. REACTOR WATER FLOW RATE AT 2330- GPM $\pm$ 1000	8.0	99.3	88.9		88.4	93.2	208.5	204.5			TIME OPER. EFF. - 30 DAY AVE.
9. FACTOR LIMITING POWER LEVEL		G.	B.O.		I.A.L.	N.E.	E.A.L.	N.E.			TIME OPER. EFF. FORECAST FOR MO.
10. DAILY ABNORMAL WATER COLLECTION - GALS.		N.	N.		N.	N.	N.				
11. ESTIMATED STARTUP TIME											
12. COMBINED REACTORS MONTH-TO-DATE	3	0	0	0	0	0	2	4	1	329.0	

REMARKS:

B - Replaced all rear face expansion joints.

KW - Resumed operation at 1545 hrs. Reactor down from 1745 to 2000 hrs. for RTD repair.

ROUGH DRAFT
AFTER FILL-IN

ROUGH DRAFT

AFTER FILL-IN

REACTOR OPERATIONS DAILY REPORT

DATE 1-10-65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	0	2225	2050		2000	2065	4400	3865	8340	8265	16605
2. MAXIMUM POWER LEVEL - MW	0	2225	2050		2000	2050	4400	3820	8325	8220	16545
3. INPUT PRODUCTION - MWD	0	2225	2044		2000	2050	4400	3651	8319	8051	16370
4. OUTAGE HOURS	24.0	0	0		0	0	0	0	24.0	0	24.0
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	-2432	+297	-1276		+3217	+159	+2101	-12209	0	-10.1	-10.1
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	8.4	6.2	6.5		8.2	7.7	5.2	4.9			
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	11.3	91.6	94.6		94.3	91.3	85.6	75.2			
8. REACTOR WATER FLOW RATE AT 2330- GPM + 1000	8.0	99.6	88.8		88.4	93.2	208.5	205.0			
9. FACTOR LIMITING POWER LEVEL		G.	B.O.		B.O.	N.E.	E.A.L.	N.E.			
10. DAILY ABNORMAL WATER COLLECTION - GALS.		N.	N.		N.	N.	N.	40			
11. ESTIMATED STARTUP TIME	1-11-65										
	2000										
LINE 5 TOTALS IN KWWD'S											
INPUT PROD. FORECAST FOR MO.											
TIME OPER. EFF. - MO-TO-DATE											
TIME OPER. EFF. - 30 DAY AVG.											
TIME OPER. EFF. FORECAST FOR MO.											
258.7 195.4 454.1											
84.0 62.2 77.8											
80.9 82.4 81.3											
84.6 75.1 81.9											

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
					3	0			0	0

REMARKS:

B - Charge-discharge is in progress.

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7	100-H	1704	W. J. Ferguson
8	100-K	1720	C. G. Lewis
9	300	326	E. M. Woodruff
10		3703	R. B. Hall
11	White Bluffs	T-26	J. R. Young
12	100-H	1704	Roy E. Dunn - H. G. Spencer
13	700	703	A. B. Greninger

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REACTOR OPERATIONS DAILY REPORT

DATE 1-11-65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1100	2225	2050		2005	2105	4400	3900	9485	8300	17785
2. MAXIMUM POWER LEVEL - MW	0	2225	2050		2000	2105	4400	3890	8380	8290	16670
3. INPUT PRODUCTION - MWD	0	2225	2042		2000	2079	4400	3871	8346	8271	16617
4. OUTAGE HOURS	24.0	0	0		0	0	0	0	24.0	0	24.0
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	-3877	+706	-960		+3594	+503	+3430	-11570	0	-8.1	-8.1
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	6.9	5.8	5.5		7.0	6.8	5.0	4.8	258.7	195.4	454.1
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	8.5	91.8	94.0		93.2	92.5	85.5	76.6	83.6	65.7	78.5
8. REACTOR WATER FLOW RATE AT 2330- GPM $\pm$ 1000	28.6	99.3	88.8		88.7	93.2	208.0	205.0	81.3	82.4	81.6
9. FACTOR LIMITING POWER LEVEL		G.	B.O.		B.O.	N.E.	E.A.L.	N.E.	84.6	75.1	81.9
10. DAILY ABNORMAL WATER COLLECTION - GALS.		N.	N.		N.	N.	N.	145			
11. ESTIMATED STARTUP TIME											

LINE 5 TOTALS IN KWWD'S

INPUT PROD. FORECAST FOR MO.

TIME OPER. EFF. - MO-TO-DATE

TIME OPER. EFF. - 30 DAY AVG.

TIME OPER. EFF. FORECAST FOR MO.

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
	3	0	0	0	0	0	2	4	1	362.0

REMARKS:

B - Reactor completed charge-discharge and miscellaneous maintenance.

12-8 (1-12-65)

B - Reactor resumed operation at 0336 hrs. concluding an outage caused by a rupture in tube 1380.

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DATE 1-12-65

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REACTOR OPERATIONS DAILY REPORTDATE 1-13-65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1900	0	0		2015	2135	4400	3350	6050	7750	13800
2. MAXIMUM POWER LEVEL - MW	1860	2225	2050		2015	2130	4400	500	10280	4900	15180
3. INPUT PRODUCTION - MWD	1773	661	333		2015	2123	4400	4	6905	4404	11309
4. OUTAGE HOURS	0	16.9	20.2		0	0	0	21.9	37.1	21.9	59.0
5. INPUT PRODUCTION VARIANCE FROM FORECAST - M-T-D - MWD	-3881	-40	-2034		+4373	+1261	+6088	-16621	-0.3	-10.5	-10.8
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	6.1	6.1	6.4		6.8	6.3	5.1	5.0	LINE 5 TOTALS IN KWWD'S		
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	86.8	14.5	14.3		93.3	93.6	85.6	6.3	INPUT PROD. FORECAST FOR MO.		
8. REACTOR WATER FLOW RATE AT 2330- GPM $\pm$ 1000	88.3	4.3	54.0		88.6	93.2	208.5	189.0	258.7	195.4	454.1
9. FACTOR LIMITING POWER LEVEL	N.E.				B.O.	B.O.	E.A.L.	N.E.	TIME OPER. EFF. - MO-TO-DATE		
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.	N.	N.		N.	N.	N.		83.5	65.0	78.2
11. ESTIMATED STARTUP TIME		1-14-65	1-14-65						82.6	79.9	81.8
		1600	1200						TIME OPER. EFF. FORECAST FOR MO.		
									84.6	75.1	81.9

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	Y.S.			COMPLETED	REMAINING		
	5	0	1	0	0	0	2	4	1	297.0

REMARKS:

C - Reactor manually scrambled at 0708 hrs. due to indications of an overbore rupture in tube 3366. The rupture was removed using 4200 lbs. pressure.

D - Reactor scrambled by a Panellit trip at 0348 hrs. due to an I&E natural rupture in tube 2264.

KW - Reactor resumed operation at 2152 hrs. concluding an outage caused by a water leak. Replaced leaking tube 5582.

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REACTOR OPERATIONS DAILY REPORT

This document classified by

DATE 1-14-65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1900	1950	1500		2020	2135	4400	3780	9505	8180	17685
2. MAXIMUM POWER LEVEL - MW	1900	1800	1200		*2020	2135	4400	3720	9055	8120	17175
3. INPUT PRODUCTION - MWD	1893	307	261		*2018	2134	4400	3321	6613	7721	14334
4. OUTAGE HOURS	0	18.6	18.0		0	0	0	0	36.6	0	36.6
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	-3433	-1549	-3499		+4769	+1659	+7417	-16531	-2.0	-9.1	-11.1
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	6.2	6.2	5.6		6.9	6.7	5.2	5.0	LINE 5 TOTALS IN KWWD'S		
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	88.4	75.0	56.1		94.0	94.1	85.6	73.7	258.7	195.4	454.1
8. REACTOR WATER FLOW RATE AT 2330- GPM $\pm$ 1000	88.8	98.0	88.0		88.6	93.3	208.0	205.0	82.5	67.5	78.2
9. FACTOR LIMITING POWER LEVEL	N.E.	N.E.	N.E.		B.O.	B.O.	E.A.I.	N.E.	82.2	79.9	81.6
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.	N.	N.		N.	N.	N.	80	TIME OPER. EFF. - 30 DAY AVG.		
11. ESTIMATED STARTUP TIME									84.6	75.1	81.9
									TIME OPER. EFF. FORECAST FOR MO.		

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
	5	0	1	0	0	0	2	4	1	363.0

REMARKS: * New maximums.

C - Reactor resumed operation at 1837 hrs. concluding a rupture outage.

D - Reactor resumed operation at 1802 hrs. concluding a rupture outage.

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REACTOR OPERATIONS DAILY REPORT

This document classified by

DATE 1-15-65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1900	0	0		2015	2125	4400	3930	6040	8330	14370
2. MAXIMUM POWER LEVEL - MW	1900	2090	1820		2020	2135	4400	3870	9965	8270	18235
3. INPUT PRODUCTION - MWD	1900	1956	1408		2018	2132	4400	3820	9414	8220	17634
4. OUTAGE HOURS	0	0	2.6		0	0	0	0	2.6	0	2.6
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD									LINE 5 TOTALS IN KWWD'S		
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	6.0	6.0	6.0		7.6	7.0	5.4	5.0			
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	88.3	86.8	9.0		94.0	94.0	85.8	76.3			
8. REACTOR WATER FLOW RATE AT 2330- GPM ÷ 1000	88.1	98.1	84.0		88.5	93.3	208.0	205.5			
9. FACTOR LIMITING POWER LEVEL	T.A.I.	N.E.			B.O.	B.O.	E.A.L.	N.E.			
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.	21			N.	N.	N.	N.			
11. ESTIMATED STARTUP TIME	DATE										
	HOUR										

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES		SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.		COMPLETED	REMAINING				
	6	0	1	0	0	2	4		1		367.0

REMARKS:

D - Reactor shut down at 2122 hrs. for the removal of a stuck I&E natural metal rupture from tube 1563. The half plant sodium silicate test as authorized by IP-728 was started on the south half of 190 at 1:00 p.m. on January 15 with an initial test feed rate of 5 ppm (as SiO₂). The feed rate will be gradually increased to the 20 ppm rate specified by the PT.

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AFTER FILL-IN

REACTOR OPERATIONS DAILY REPORT

DATE 1-16-65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1900	0	900		2010	2115	4400	4100	6925	8500	15425
2. MAXIMUM POWER LEVEL - MW	1900	2115	0		2015	2125	4400	4045	8155	8445	16600
3. INPUT PRODUCTION - MWD	1900	651	0		2013	2122	4400	3954	6686	8354	15040
4. OUTAGE HOURS	0	16.7	24.0		0	0	0	0	40.7	0	40.7
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD									LINE 5 TOTALS IN KWWD'S		
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	6.5	6.5	6.7		8.1	7.9	5.4	4.7	INPUT PROD. FORECAST FOR MO.		
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	88.9	8.5	7.6		94.4	94.5	85.8	79.5	TIME OPER. EFF. - MO-TO-DATE		
8. REACTOR WATER FLOW RATE AT 2330- GPM $\pm$ 1000	88.1	29.2	82.0		88.4	93.3	208.2	205.0	TIME OPER. EFF. - 30 DAY AVG.		
9. FACTOR LIMITING POWER LEVEL	T.A.I.				B.O.	B.O.	E.A.L.	N.E.	TIME OPER. EFF. FORECAST FOR MO.		
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.				N.	N.	E.A.L.	35			
11. ESTIMATED STARTUP TIME											

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
					7	0			1	0

REMARKS:

C - Reactor shut down at 0717 hrs. for the removal of an overbore rupture from tube 3069. The rupture was removed with the charging machine and 25 tubes of material from the same lot were discharged as rupture prone material.

D - The stuck rupture was removed from tube 1563 after cutting ribs from the tube. The tube was replaced.

ROUGH DRAFT
AFTER FILL-IN

- ROUGH DRAFT
AFTER FILL-IN

REACTOR OPERATIONS DAILY REPORT

DATE 1-17-65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1900	1800	1725		2010	2115	4400	4270	9550	8670	18220
2. MAXIMUM POWER LEVEL - MW	1900	1800	1650		2010	2115	4400	4240	9475	8640	18115
3. INPUT PRODUCTION - MWD	1900	113	1035		2010	2115	4400	4146	7173	8546	15719
4. OUTAGE HOURS	0	20.7	4.7		0	0	0	0	25.4	0	25.4
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	-2068	-4277	-6234		+5935	+2830	+11404	-14305	-3.8	-2.9	-6.7
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	6.4	6.5	6.8		8.3	7.9	5.6	4.7	LINE 5 TOTALS IN KMW-D'S		
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	88.8	9.1	77.8		94.6	94.5	86.0	83.3	258.7	195.4	454.1
8. REACTOR WATER FLOW RATE AT 2330- GPM $\pm$ 1000	88.0	38.2	88.5		88.4	93.1	208.2	205.0	82.3	73.2	79.7
9. FACTOR LIMITING POWER LEVEL	T.A.I.		N.E.		B.O.	B.O.	E.A.I.	N.E.	81.2	84.1	82.0
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.		45		N.	N.	N.	27	TIME OPER. EFF. - 30 DAY AVE.		
11. ESTIMATED STARTUP TIME									84.6	75.1	81.9
INPUT PROD. FORECAST FOR MO.											
TIME OPER. EFF. - MO-TO-DATE											
TIME OPER. EFF. - 30 DAY AVE.											
TIME OPER. EFF. FORECAST FOR MO.											

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
	8	0	1	0	0	0	2	4	1	362.0

REMARKS:

C - Resumed operation at 1742 hrs. Reactor scrambled at 2102 hrs. by a Panellit trip due to an overbore rupture in tube 3169. Rupture was removed with charging machine.

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REACTOR OPERATIONS DAILY REPORT

DATE 1-18-65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1910	2080	0		2010	0	4400	4400	6000	8800	14800
2. MAXIMUM POWER LEVEL - MW	1910	2000	1900		2010	2115	4400	4335	9935	8735	18670
3. INPUT PRODUCTION - MWD	1905	1415	1780		2010	2115	4400	4285	9225	8685	17910
4. OUTAGE HOURS	0	4.4	0		0	0	0	0	4.4	0	4.4
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	-1608	-4676	-6180		+6322	+3210	+12733	-13252	-2.9	-0.5	-3.4
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	6.4	6.3	6.2		7.7	7.3	5.7	5.3	LINE 5 TOTALS IN KW'S		
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	89.2	83.6	88.2		94.1	93.9	86.0	85.0	258.7	195.4	454.1
8. REACTOR WATER FLOW RATE AT 2330- GPM $\pm$ 1008	88.0	98.3	88.8		88.3	93.1	208.2	205.0	83.0	74.7	80.6
9. FACTOR LIMITING POWER LEVEL	T.A.I.	N.E.	N.E.		B.O.	B.O.	E.A.L.	N.E.	81.7	84.1	82.4
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.	12	121		N.	N.	N.	16	TIME OPER. EFF. - 30 DAY AVG.		
11. ESTIMATED STARTUP TIME			1-20-65 1100			1-20-65 2400			84.6	75.1	81.9
INPUT PROD. FORECAST FOR MO.											
TIME OPER. EFF. - MO-TO-DATE											
TIME OPER. EFF. - 30 DAY AVG.											
TIME OPER. EFF. FORECAST FOR MO.											

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
	10	0	1	0	0	0	3	3	1	361.0

REMARKS:

C - Resumed operation at 0427 hrs. concluding a rupture outage.

1-19-65(12-8)

D - Reactor shut down at 0310 hrs. for the removal of a stuck I&E natural metal rupture from tube 2661.

H - Reactor shut down at 0643 hrs. for the removal of an I&E natural metal rupture from tube 0966. Scheduled charge-discharge planned for 1-20-65 will be completed.

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REACTOR OPERATIONS DAILY REPORT

DATE 1-19-65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1910	2145	0		2010	0	4400	0	6065	4400	10465
2. MAXIMUM POWER LEVEL - MW	1910	2125	1915		2010	2115	4400	4400	10075	8800	18875
3. INPUT PRODUCTION - MWD	1910	2084	249		2010	581	4400	4351	6834	8751	15585
4. OUTAGE HOURS	0	0	20.8		0	17.3	0	0.2	38.1	0.2	38.3
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	-1143	-4410	-7657		+6709	+2056	+14062	-12133	-4.4	+1.9	-2.5
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	6.3	6.3	7.8		7.4	8.2	5.6	5.3			
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	89.2	88.2	13.0		93.9	20.2	86.0	86.3			
8. REACTOR WATER FLOW RATE AT 2330- GPM $\pm$ 1000	88.0	98.7	6.0		86.6	6.7	208.0	205.0			
9. FACTOR LIMITING POWER LEVEL	T.A.I.	N.E.			B.O.		E.A.L.				
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.	19	63		N.		N.				
11. ESTIMATED STARTUP TIME			1-20-65 1200			1-20-65 2400		1-21-65 1200			
									84.6	75.1	81.9

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
	10	0	1	0	1	0	3	3	1	337.0

REMARKS:

Reactor shut down at 0310 hrs. due to an I&E natural metal rupture in tube 2661. The rupture was removed using 12000 lbs. pressure after cutting tube ribs. Discharged 113 tubes of rupture prone material. Replaced tube 1562 due to damage while discharging metal.

Reactor shut down at 0643 hrs. for the removal of a stuck I&E natural metal rupture from tube 0966. Completed the charge-discharge of 242 tubes. Removal of the stuck rupture is in progress.

Reactor scrambled at 2347 hrs. by an unexplained high pressure Panellit trip on thorium charged tube 4653. Miscellaneous maintenance work is in progress.

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REACTOR OPERATIONS DAILY REPORT

DATE 1-20-65

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by *Rafael*

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1910	2200	1300		2010	1630	4400	0	9050	4400	13450
2. MAXIMUM POWER LEVEL - MW	1910	2185	1100		2010	1300	4400	0	8505	4400	12905
3. INPUT PRODUCTION - MWD	1910	2164	207		2010	179	4400	0	6470	4400	10870
4. OUTAGE HOURS	0	0	16.4		0	19.7	0	24.0	36.1	24.0	60.1
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	-678	-4062	-9176		+7096	+500	+15391	-15365	-6.3	0	-6.3
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	6.3	6.4	6.1		7.2	7.0	5.8	6.2	258.7	195.4	454.1
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	89.1	90.1	53.0		93.3	61.6	86.0	CU	81.6	74.7	79.6
8. REACTOR WATER FLOW RATE AT 2330- GPM ÷ 1000	87.6	98.6	88.2		88.6	92.3	208.0	21.0	81.0	82.4	81.4
9. FACTOR LIMITING POWER LEVEL	T.A.I.	NE	NE		BO	NE	EAL		84.6	75.1	81.9
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N	N	64		N	N	N				
11. ESTIMATED STARTUP TIME								1-21-65			
								1300			

	RUPTURES	WATER LEAKS	SCRAMS	RECOVERIES	SCHEDULED OUTAGES	OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.			COMPLETED	REMAINING	
12. COMBINED REACTORS MONTH-TO-DATE	10	0	1	0	3	3	352.0

REMARKS:

D - Resumed operation at 1503 hrs. concluding a rupture outage.

Reactor scrambled at 1758 hrs. by a Panellit trip when a spline stub blew out of the seal during the splining operation. Resumed operation at 1920 hrs.

H - Resumed operation at 1943 hrs. concluding a rupture outage. The rupture required 8000 lbs. pressure for removal after cutting the tube ribs.

KW - Reactor continuing down on a minimum outage following an unexplained Panellit trip on a thorium charged tube. Misc. maintenance work is in progress.

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REACTOR OPERATIONS DAILY REPORT

DATE 1-21-65

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Joy Trudick

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	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
12. COMBINED REACTORS MONTH-TO-DATE	10	0	1	0	2	0	3	3	1	357.0

REMARKS:

KW - Reactor resumed operations at 1500 hrs. concluding an outage caused by an unexplained panellit trip on a thorium charged tube.

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REACTOR OPERATIONS DAILY REPORT

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by *E. J. P. Brundage*

DATE 1-22-65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - NW	1920	2220	1855		2005	1985	4400	3770	9985	8170	18155
2. MAXIMUM POWER LEVEL - MW	1915	2220	1855		2010	1925	4400	3750	9925	8150	18075
3. INPUT PRODUCTION - MWD	1911	2215	1850		2008	1903	4400	3572	9887	7972	17859
4. OUTAGE HOURS	0	0	0		0	0	0	0	0	0	0
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD											
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	6.2	6.3	6.2		7.4	7.1	5.3	5.1			
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	89.3	91.7	85.6		93.6	86.1	85.9	73.9			
8. REACTOR WATER FLOW RATE AT 2330- GPM ± 1000	88.3	99.6	89.2		88.7	92.9	208.0	204.5			
9. FACTOR LIMITING POWER LEVEL	T.A.I.	N.E.	T.P.		B.O.	N.E.	E.A.L.	N.E.			
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.	N.	227		N.	N.	N.	N.			
11. ESTIMATED STARTUP TIME	DATE	DATE									
	HOUR										

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
	10	0	1	0	2	0	3	3	1	364.0

REMARKS:

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REACTOR OPERATIONS DAILY REPORT

DATE 1-23-65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 1555 HRS. FOLLOWING DAY - MWD	1925	2220	1865		2000	2000	0	0	10010	0	10010
2. MAXIMUM POWER LEVEL - MW	1920	2220	1855		2005	1985	4400	3770	9985	8170	18155
3. INPUT PRODUCTION - MWD	1920	2220	1855		2004	1979	4400	2500	9978	6900	16878
4. OUTAGE HOURS	0	0	0		0	0	0	8.1	0	8.1	8.1
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD									LINE 8 TOTALS IN KWWD'S		
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	5.7	5.8	6.6		8.2	8.0	5.0	5.9			
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	89.2	91.3	86.5		94.2	89.3	85.4	C.U.			
8. REACTOR WATER FLOW RATE AT 2330- GPM ± 1000	88.1	99.9	89.2		88.7	92.8	208.0	16.5			
9. FACTOR LIMITING POWER LEVEL	T.A.I.	G.	T.P.		B.O.	N.E.	E.A.I.				
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.	N.	112		N.	N.	N.				
11. ESTIMATED STARTUP TIME											

INPUT PROD. FORECAST FOR MO.

TIME OPER. EFF. - MO-TO-DATE

TIME OPER. EFF. - 30 DAY AVG.

TIME OPER. EFF. FORECAST FOR MO.

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	EHR.	TUBE	V.S.			COMPLETED	REMAINING		
	10	0	1	0	3	0	4	2	1	359.0

REMARKS:

KW- Reactor manually scrambled at 1555 hrs. to control process tube outlet temperatures. Scheduled charge-discharge and dual area tripout tests planned for 1-27-65 will be completed.

ROUGH DRAFT
AFTER FILL-IN

ROUGH DRAFT
AFTER FILL-IN

REACTOR OPERATIONS DAILY REPORT

DATE 1-24-65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0900 FOLLOWING DAY - MW	1930	2230	1870		2000	2050	0	0	10080	0	10080
2. MAXIMUM POWER LEVEL - MW	1930	2230	1865		2000	2035	4400	0	10060	4400	14460
3. INPUT PRODUCTION - MWD	1924	2222	1863		2000	2014	1414	0	10023	1414	11437
4. OUTAGE HOURS	0	0	0		0	0	16.0	24.0	0	40.0	40.0
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	+1207	-2466	-9057		+8625	+1143	+17649	-21623	-0.5	-4.0	-4.5
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	6.0	6.8	7.6		8.4	8.3	7.0	5.9	LINE 5 TOTALS IN KWWD'S		
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	90.0	92.6	88.2		94.2	91.8	C.U.	C.U.	INPUT PROD. FORECAST FOR MO.		
8. REACTOR WATER FLOW RATE AT 2330- GPM + 1000	88.1	99.3	89.1		88.6	92.7	16.2	16.8	258.7	195.5	454.2
9. FACTOR LIMITING POWER LEVEL	T.A.I.	G.	T.P.		B.O.	N.E.			TIME OPER. EFF. - MO-TO-DATE		
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.	N.	96		21	N.			84.7	73.5	81.5
11. ESTIMATED STARTUP TIME									TIME OPER. EFF. - 30 DAY AVG.		
							1-28-65 0900	1-25-65 2000	83.7	78.0	82.1
									84.6	75.0	81.8

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
	10	0	1	0	3	0	5	1	1	352.0

REMARKS:

KE - Reactor shut down at 0800 hrs. for scheduled charge-discharge and dual area tripout tests.

KW - Scheduled charge-discharge and maintenance are in progress following a manual scram for temperature control.

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DRAFT
AFTER FILL-IN

REACTOR OPERATIONS DAILY REPORT

DATE 1-25-65

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	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1935	2230	1870		2005	2050	0	3000	10090	3000	13090
2. MAXIMUM POWER LEVEL - MW	1935	2230	1870		2000	2050	0	3000	10085	3000	13085
3. INPUT PRODUCTION - MWD	1931	2230	1870		2000	2050	0	336	10081	336	10417
4. OUTAGE HOURS	0	0	0		0	0	24.0	19.0	0	43.0	43.0
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	+1693	-2052	-8913		+9002	+1458	+14575	-24519	+1.2	-9.9	-8.7
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	5.8	6.0	5.4		6.6	6.4	7.3	4.9	LINE 8 TOTALS IN KWWD'S		
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	90.1	91.7	86.0		92.6	91.1	C.U.	60.4	INPUT PROD. FORECAST FOR MO.		
8. REACTOR WATER FLOW RATE AT 2330- GPM ± 1000	88.2	99.7	89.2		88.6	92.8	16.4	205.0	258.7	195.5	454.2
9. FACTOR LIMITING POWER LEVEL	T.A.I.	G.	T.P.		B.O.	*I.A.I.		N.E.	TIME OPER. EFF. - MO-TO-DATE		
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.	N.	46		N.	N.	1-28-65	N.	84.8	75.1	82.0
11. ESTIMATED STARTUP TIME							0900		84.6	75.0	81.8
									TIME OPER. EFF. - 30 DAY AVG.		

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
	10	0	1	0	3	0	5	1	1	344.0

REMARKS:

KE - Reactor continuing down for scheduled work. The tripout tests were completed and charge-discharge is in progress.

KW - Reactor resumed operation at 1900 hrs. concluding an outage initiated for temperature control. Scheduled outage work including tripout tests were completed.

Item 9 - H Reactor - Power level is being limited by tube temperatures on several low flow spline tubes.

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REACTOR OPERATIONS DAILY REPORT

DATE 1-26-65

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John Rudick

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1935	2230	1870		2010	2050	0	3830	10095	3830	13925
2. MAXIMUM POWER LEVEL - MW	1935	2230	1870		2010	2050	0	3530	10095	3530	13625
3. INPUT PRODUCTION - MWD	1935	2230	1870		2005	2050	0	3186	10090	3186	13276
4. OUTAGE HOURS	0	0	0		0	0	24.0	0	0	24.0	24.0
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	+2183	-1638	-8769		+9384	+1773	+11501	-24565	+2.9	-13.1	-10.2
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	5.8	6.0	5.3		6.5	6.3	7.1	4.8	INPUT PROD. FORECAST FOR MO.		
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	90.1	91.8	85.2		93.0	91.0	C.U.	69.9	258.7	195.5	454.2
8. REACTOR WATER FLOW RATE AT 2330- GPM ± 1000	88.1	99.3	89.0		88.5	92.6	16.3	203.5	85.9	70.1	81.4
9. FACTOR LIMITING POWER LEVEL	T.A.I.	G.	T.P.		B.O.	I.A.L.		N.E.	86.0	73.4	82.4
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.	N.	N.		N.	N.	1-28-65	N.	84.6	75.0	81.8
11. ESTIMATED STARTUP TIME							0900				

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRANS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
	10	0	1	0	3	0	5	1	1	298.0

REMARKS:

KE Reactor continuing down for scheduled charge-discharge and maintenance work.

RESTRICTED DATA

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GROUP 1

Excluded from automatic downgrading and declassification

ROUGH DRAFT
AFTER FILL-IN

ROUGH DRAFT
AFTER FILL-IN

REACTOR OPERATIONS DAILY REPORT

DATE 1-27-65

This document classified by
E. J. Prudich

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 2300 FOLLOWING DAY - MW	1940	2230	1870		2010	2050	0	4365	10100	4365	14465
2. MAXIMUM POWER LEVEL - MW	1940	2230	1870		2010	2050	0	4320	10100	4320	14420
3. INPUT PRODUCTION - MWD	1936	2230	1870		2010	2050	0	3964	10096	3964	14060
4. OUTAGE HOURS	0	0	0		0	0	24.0	0	0	24.0	24.0
5. INPUT PRODUCTION VARIANCE FROM FORECAST - T-D - MWD	+2674	-1227	-8625		+9782	+2077	+8508	-23833	+4.7	-15.4	-10.7
6. REACTOR INLET WATER TEMPERATURE AT 2330 - C	6.0	6.3	5.8		7.1	7.2	7.1	4.8	LINE 5 TOTALS IN KAWD'S		
7. BULK OUTLET WATER TEMPERATURE AT 2330 - C	90.5	92.0	86.5		93.6	91.7	C.U.	84.4	INPUT PROG. FORECAST FOR MO.		
8. REACTOR WATER FLOW RATE AT 2330 - GPM ± 1000	88.0	99.7	89.0		88.6	92.4	16.2	204.0	258.7	195.5	454.2
9. FACTOR LIMITING POWER LEVEL	T.A.I.	G.	T.P.		B.O.	I.A.L.		N.E.	86.4	69.4	81.5
10. DAILY ABNORMAL WATER COLLECTION - GALS.	E.	H.	39		N.	N.		N.	86.7	71.7	82.4
11. ESTIMATED STARTUP TIME							1-28-65	1600	84.6	75.0	81.8
									TIME OPER. EFF. - 30 DAY AVG.		
									TIME OPER. EFF. FORECAST FOR MO.		

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	DAY	END	TIME	Y.S.			COMPLETED	REMAINING		
	10	0	1	0	3	0	5	1	1	300.0

REMARKS:

KE - Reactor continuing down for scheduled maintenance work.

RESTRICTED DATA

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GROUP 1

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ROUGH DRAFT
AFTER FILL-IN

- ROUGH DRAFT
AFTER FILL-IN

REACTOR OPERATIONS DAILY REPORT

DATE 1-28-65

This document classified by

E. P. Prudich

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1945	2230	1870		2010	2050	0	4400	10105	4400	14505
2. MAXIMUM POWER LEVEL - MW	1945	2235	1870		2010	2050	4400	4400	10110	8800	18910
3. INPUT PRODUCTION - MWD	1941	2230	1870		2010	2050	910	4366	10101	5276	15377
4. OUTAGE HOURS	0	0	0		0	0	16.2	0	0	16.2	16.2
5. INPUT PRODUCTION VARIANCE FROM FORECAST - T-D - MWD	+3170	-813	-8481		+10169	+2392	+6374	-22699	+6.4	-16.4	-10.0
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	5.9	6.1	5.4		6.9	6.7	5.0	4.6	LINE 5 TOTALS IN KWWD'S		
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	90.8	92.0	85.6		93.3	91.2	85.0	85.9	INPUT PROD. FORECAST FOR MO.		
8. REACTOR WATER FLOW RATE AT 2330- GPM ± 1000	88.0	99.3	89.2		88.6	92.6	208.0	204.0	258.7	195.5	454.2
9. FACTOR LIMITING POWER LEVEL	T.A.I.	G.	T.P.		B.O.	I.A.L.	E.A.L.	E.A.L.	TIME OPER. EFF. - MO-TO-DATE		
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.	21	34		N.	N.	N.	N.	87.4	70.6	82.6
11. ESTIMATED STARTUP TIME							1-30-65		TIME OPER. EFF. FORECAST FOR MO.		
							1200		84.6	75.0	81.8

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS		RECOVERIES		SCHEDULED OUTAGES		OTHER OUTAGES		DAILY PEAK ELECT. DEMAND - MEGAWATTS
	REACT.	END.	TUBE	V.S.					COMPLETED	REMAINING			
	10	0	1	0	4	0	0	5	1	1	1	363.0	

REMARKS:

KE - Resumed operation at 1613 hours concluding a scheduled outage.

1/29/65 (12-8)

KE - Reactor scrambled at 0650 hours due to an unexplained high pressure Panellit trip on gauge 1369.

RESTRICTED DATA
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GROUP 1

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- ROUGH DRAFT
AFTER FILL-IN

This document classified by

REACTOR OPERATIONS DAILY REPORT

DATE 1-29-65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1950	2230	1370		2005	2050	0	4400	10105	4400	14505
2. MAXIMUM POWER LEVEL - MW	1950	2230	1370		2010	2050	4400	4400	10110	8300	18910
3. INPUT PRODUCTION - MWD	1946	2230	1370		2010	2050	1253	4400	10106	5653	15759
4. OUTAGE HOURS	0	0	0		0	0	17.2	0	0	17.2	17.2
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD									LINE 5 TOTALS IN KW'D'S		
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	6.4	7.0	7.3		8.7	7.7	6.6	5.6	INPUT PROD. FORECAST FOR MO.		
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	91.3	92.7	88.3		94.7	92.6	9.0	86.8	TIME OPER. EFF. - NO-TO-DATE		
8. REACTOR WATER FLOW RATE AT 2330- GPM ÷ 1000	87.9	92.9	92.2		98.6	92.7	43.0	204.0	TIME OPER. EFF. - 30 DAY AVG.		
9. FACTOR LIMITING POWER LEVEL	T.A.I.	G.	T.I.		B.O.	I.A.L.		E.A.L.	TIME OPER. EFF. FORECAST FOR MO.		
10. DAILY ABNORMAL WATER COLLECTION - GALS.	H.	N.	38		N.	H.		N.			
11. ESTIMATED STARTUP TIME	DATE										
	HOUR										

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
										357.0

REMARKS:

Reactor screened at 0650 hours due to an unexplained high pressure Panellit trip on gauge 1369.

REACTOR DATA

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ROUGH DRAFT
AFTER FILL-IN

ROUGH DRAFT
AFTER FILL-IN

REACTOR OPERATIONS DAILY REPORT

DATE 1/30/65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	0	2230	1870		1980	2025	4400	4400	8105	8800	16905
2. MAXIMUM POWER LEVEL - MW	1950	2230	1870		2010	2050	4400	4400	10110	8800	18910
3. INPUT PRODUCTION - MWD	1950	2230	1870		2000	2044	1335	4400	10094	5735	15829
4. OUTAGE HOURS	0	0	0		0	0	13.8	0	0	13.8	13.8
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD									LINE 5 TOTALS IN KWWD'S		
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	6.9	7.5	10.4		9.6	9.3	7.0	6.0	INPUT PROD. FORECAST FOR MO.		
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	92.0	93.2	91.0		94.5	93.6	86.8	87.2	TIME OPER. EFF. - MO-TO-DATE		
8. REACTOR WATER FLOW RATE AT 2330- GPM $\pm$ 1000	87.8	99.6	89.2		88.7	92.6	206.0	204.0	TIME OPER. EFF. - 30 DAY AVG.		
9. FACTOR LIMITING POWER LEVEL	T.A.I.	G.	T.P.		B.O.	I.A.I.	E.A.I.	E.A.I.	TIME OPER. EFF. FORECAST FOR MO.		
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.	N.	30		N.	18	N.	17			
11. ESTIMATED STARTUP TIME	DATE										
	HOUR										

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
										362.0

REMARKS:

KE - Resumed operation at 1349 hours concluding an outage caused by a high pressure Panellit trip.

ROUGH DRAFT
AFTER FILL-IN

ROUGH DRAFT
AFTER FILL-IN

REACTOR OPERATIONS DAILY REPORT

DATE 1-31-65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	0	2230	1870		0	2020	4400	4400	6120	8800	14920
2. MAXIMUM POWER LEVEL - MW	1950	2230	1870		1980	2025	4400	4400	10055	8800	18855
3. INPUT PRODUCTION - MWD	95	2230	1870		1977	2023	4400	4400	8195	8800	16995
4. OUTAGE HOURS	22.8	0	0		0	0	0	0	22.8	0	22.8
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	+2826	+428	-8049		+11289	+3300	+4023	-19193	+9.8	-15.2	-5.4
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	8.6	7.6	11.0		10.0	9.3	6.2	5.5	258.7	195.5	454.2
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	16.1	93.0	91.7		94.4	92.5	86.2	86.8	87.5	70.2	82.6
8. REACTOR WATER FLOW RATE AT 2330- GPM ± 1000	7.1	99.8	89.0		88.7	92.9	208.2	204.0	87.8	70.8	82.9
9. FACTOR LIMITING POWER LEVEL		G.	T.P.		B.O.	I.A.L.	E.A.L.	E.A.L.	TIME OPER. EFF. - MO-TO-DATE	TIME OPER. EFF. - 30 DAY AVG.	
10. DAILY ABNORMAL WATER COLLECTION - GALS.		N.	38		20	30	N.	N.	TIME OPER. EFF. FORECAST FOR MO.		
11. ESTIMATED STARTUP TIME	2-3-65 0100				2-5-65 0400				84.6	75.0	81.8

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS		RECOVERIES		SCHEDULED OUTAGES		OTHER OUTAGES		DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.					COMPLETED	REMAINING			
	11	0	1	0	4		0		5	0	1		362.0

REMARKS:

B - Reactor shut down at 0111 hours for the removal of an I&E natural metal rupture from tube 3973. The rupture was removed using 4500 lbs. pressure and 24 tubes of rupture prone material were discharged.

2/2/65 (12-3)

C - Reactor shut down at 0619 hours for scheduled charge-discharge.

ROUGH DRAFT
AFTER FILL-IN

ROUGH DRAFT
AFTER FILL-IN

REACTOR OPERATIONS DAILY REPORT

DATE 2-1-65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	0	2230	1870		0	2015	4400	4400	6115	8800	14915
2. MAXIMUM POWER LEVEL - MW	0	2230	1870		1975	2020	4400	4400	8095	8800	16895
3. INPUT PRODUCTION - MWD	0	2230	1870		1975	2018	4400	4400	6137	8800	14937
4. OUTAGE HOURS	24.0	0	0		23.7	0	0	0	47.7	0	47.7
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD									-1.7	LINE 5 TOTALS IN KWWD'S -0.2	-0.2
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	9.3	6.8	7.5		10.5	8.8	5.6	4.8	220.7	203.6	424.3
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	13.9	92.8	88.1		15.2	91.5	85.6	86.2	60.3	100.0	71.6
8. REACTOR WATER FLOW RATE AT 2330- GPM ± 10C	6.6	99.3	89.0		7.7	92.6	208.2	204.0	87.1	72.5	82.9
9. FACTOR LIMITING POWER LEVEL		G.	T.P.			I.A.L.	E.A.L.	E.A.L.	79.0	86.5	81.1
10. DAILY ABNORMAL WATER COLLECTION - GALS.		N.	36			32	N.	N.			
11. ESTIMATED STARTUP TIME	2-2-65 1800				2-5-65 0800						

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
	0	0	0	0	0	0	1	6	0	300.0

REMARKS:

B - Continuing down following rupture removal. A small charge-discharge was completed and maintenance work is in progress.

F - Continuing down for scheduled charge-discharge and maintenance.

RESTRICTED DATA

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ROUGH DRAFT
AFTER FILL-IN

ROUGH DRAFT
AFTER FILL-IN

REACTOR OPERATIONS DAILY REPORT

DATE 2-2-65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1100	0	1870		0	2020	4400	4400	4990	8800	13790
2. MAXIMUM POWER LEVEL - MW	0	2230	1870		0	2015	4400	4400	6115	8800	14915
3. INPUT PRODUCTION - MWD	0	1665	1870		0	2015	4400	4400	5550	8800	14350
4. OUTAGE HOURS	24.0	6.0	0		24.0	0	0	0	54.0	0	54.0
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	-3036	+245	+948		-3023	+833	+2278	+779	-4.1	+3.1	-1.0
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	5.7	5.6	5.3		9.5	6.4	4.9	4.1	220.7	203.6	424.3
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	7.9	15.5	85.2		12.1	89.0	84.8	85.5	TIME OPER. EFF. - MO-TO-DATE	100.0	69.7
8. REACTOR WATER FLOW RATE AT 2330- GPM $\pm$ 1000	83.1	7.2	89.0		7.6	92.7	208.0	204.0	TIME OPER. EFF. - 30 DAY AVG.	73.2	82.5
9. FACTOR LIMITING POWER LEVEL			T.P.			N.	N.	40	TIME OPER. EFF. FORECAST FOR MO.	86.5	81.1
10. DAILY ABNORMAL WATER COLLECTION - GALS.			18						79.0	86.5	81.1
11. ESTIMATED STARTUP TIME		2-6-65 0400			2-5-65 0800						

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
	0	0	0	0	0	0	2	4	0	327.0

REMARKS:

B - Reactor continuing down for miscellaneous maintenance following rupture removal.

C - Reactor shut down at 1800 hours for scheduled charge-discharge.

F - Continuing down for scheduled charge-discharge; also, replaced 17 process tubes.

2/3/65 (12-8)

B - Resumed operation at 0110 hours.

ROUGH DRAFT
AFTER FILL-IN

ROUGH DRAFT

AF

REACTOR OPERATIONS DAILY REPORT

DATE 2-3-65

This document classified
by *E. J. Prudich*

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1750	0	1870		0	2020	4400	4400	5670	8800	14470
2. MAXIMUM POWER LEVEL - MW	1715	0	1870		0	2020	4400	4400	5605	8800	14405
3. INPUT PRODUCTION - MWD	1472	0	1870		0	2019	4400	4400	5361	8800	14161
4. OUTAGE HOURS	1.2	24.0	0		24.0	0	0	0	49.2	0	49.2
5. INPUT PRODUCTION VARIANCE FROM FORECAST - T-D - MWD	-3082	-1580	+1356		-4544	+1252	+3417	+1168	-6.6	+4.6	-2.0
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	5.5	5.6	5.2		8.9	6.1	4.7	4.0	LINE 5 TOTALS IN KWWD'S		
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	80.0	12.3	85.1		9.0	89.5	84.6	85.4	INPUT PROD. FORECAST FOR MO.		
8. REACTOR WATER FLOW RATE AT 2330- GPM ± 1000	87.9	3.5	89.0		7.4	92.7	208.5	204.0	220.7	203.6	424.3
9. FACTOR LIMITING POWER LEVEL	N.E.		T.P.			I.A.L.	E.A.L.	E.A.L.	TIME OPER. EFF. - MO-TO-DATE		
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.		12			11	N.	N.	58.1	100.0	70.1
11. ESTIMATED STARTUP TIME		2-6-65 0400			2-5-65 0800				84.9	73.8	81.7
									TIME OPER. EFF. FORECAST FOR MO.		
									79.0	86.5	81.1

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
	0	0	0	0	0	0	2	4	0	307.0

REMARKS

- B - Resumed operation at 0110 hours concluding a rupture outage.
- C - Reactor continuing down for scheduled charge-discharge and maintenance.
- F - Completed scheduled charge-discharge. Leak testing is currently in progress.

RESTRICTED DATA

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ROUGH DRAFT
AFTER FILL-IN

ROUGH DRAFT
AFTER FILL-IN

This document classified by

REACTOR OPERATIONS DAILY REPORT

DATE 2-4-65

1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
2. MAXIMUM POWER LEVEL - MW	1860	0	1875		0	2020	4400	4400	5755	8800	14555
3. INPUT PRODUCTION - MWD	1845	0	1875		0	2020	4400	4400	5740	8800	14540
4. OUTAGE HOURS	1798	0	1870		0	2020	4400	4400	5688	8800	14488
5. INPUT PRODUCTION VARIANCE FROM FORECAST - T-D - MWD	0	24.0	0		24.0	0	0	0	48.0	0	48.0
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	-2802	-3405	+1808		-6063	+1672	+4556	+1556	-8.8	+6.1	-2.7
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	5.6	6.0	5.4		10.5	6.4	4.8	4.0	220.7	203.6	424.3
8. REACTOR WATER FLOW RATE AT 2330- GPM $\pm$ 1000	85.7	9.4	85.8		10.3	89.7	84.6	85.4	58.6	100.0	70.4
9. FACTOR LIMITING POWER LEVEL	88.3	2.5	89.0		18.0	92.9	208.0	204.0	83.6	75.5	81.3
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.E.		T.P.			I.A.L.	E.A.L.	E.A.L.	79.0	86.5	81.1
11. ESTIMATED STARTUP TIME	N.	2-5-65 2400	N.		2-5-65 1000	35	N.	20			

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES	WATER LEAKS	RECOVERIES	SCHEDULED OUTAGES	OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	SAT.	EMR.	TUBE	COMPLETED	REMAINING	
	0	0	0	0	4	310.0

REMARKS:

C - Continuing down for scheduled charge-discharge
and maintenance.F - Continuing down for scheduled charge-discharge
and maintenance.

REACTOR DATA

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and declassification

ROUGH DRAFT
AFTER FILL-IN

- ROUGH DRAFT

AFTER FILL-IN

REACTOR OPERATIONS DAILY REPORT

DATE 2/5/65

This document classified by

Raymond L. Paulich

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1910	0	1875		1750	2020	4400	4400	7555	8800	16355
2. MAXIMUM POWER LEVEL - MW	1900	0	1875		1750	2020	4400	4400	7545	8800	16345
3. INPUT PRODUCTION - MWD	1875	0	1875		787	2020	4400	4400	6557	8800	15357
4. OUTAGE HOURS	0	24.0	0		9.4	0	0	0	33.4	0	33.4
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD									LINE 5 TOTALS IN KWWD'S		
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	5.6	6.5	4.8		6.3	6.0	4.6	4.0			INPUT PROD. FORECAST FOR MO.
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	88.1	7.8	85.1		80.0	89.2	84.8	85.4			TIME OPER. EFF. - MO-TO-DATE
8. REACTOR WATER FLOW RATE AT 2330- GPM ± 1000	68.1	89.3	89.0		89.2	22.9	208.5	204.0			TIME OPER. EFF. - 30 DAY AVG.
9. FACTOR LIMITING POWER LEVEL	N.F.		T.F.		N.E.	I.A.L.	F.A.L.	F.A.L.			TIME OPER. EFF. FORECAST FOR MO.
10. DAILY ABNORMAL WATER COLLECTION - GALS.	G.		N.		N.	80	N.	N.			
11. ESTIMATED STARTUP TIME	DATE										
	HOUR										

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	EHR.	TUBE	Y.S.			COMPLETED	REMAINING		
										357

REMARKS:

2/5/65

Reactor continuing down for scheduled maintenance work.

Resumed operation at 0924 hours concluding scheduled change-discharge.

RESTRICTED DATA

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GROUP 1

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- ROUGH DRAFT

AFTER FILL-IN

ROUGH DRAFT
AFTER FILL-IN

REACTOR OPERATIONS DAILY REPORT

DATE 2/6/65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1940	1950	1875		1940	0	4400	4400	7705	8800	16505
2. MAXIMUM POWER LEVEL - MW	1930	1820	1375		1940	2020	4400	4400	9585	8800	18385
3. INPUT PRODUCTION - MWD	1917	705	1275		1340	1210	4400	4400	7547	8800	16347
4. OUTAGE HOURS	0	10.8	0		0	9.5	0	0	20.3	0	20.3
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD									LINE 3 TOTALS IN KMW'S		
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	4.9	5.5	4.8		6.2	7.2	4.7	3.9	INPUT PROD. FORECAST FOR MO.		
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	88.9	54.0	85.0		88.0	20.0	84.6	85.4	TIME OPER. EFF. - MO-TO-DATE		
8. REACTOR WATER FLOW RATE AT 2330- GPM ÷ 1000	88.3	91.2	89.0		89.4	32.8	208.0	204.0	TIME OPER. EFF. - 30 DAY AVG.		
9. FACTOR LIMITING POWER LEVEL	N.F.	N.F.	T.P.		N.F.		E.A.L.	E.A.L.	TIME OPER. EFF. FORECAST FOR MO.		
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.	21	N.		N.		N.	N.			
11. ESTIMATED STARTUP TIME	DATE										
	HOUR										

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
	/									359

REMARKS:

2/6/65

0 - Resumed operation at 0924 hours concluding scheduled charge-discharge. Reactor scrambled at 2104 hours when a relay in the VSR circuit burned out. Operation was resumed at 2227 hours.

1 - Reactor shut down at 1430 hours for the removal of an I&E natural metal rupture from tube 0773. The reactor will remain down for block discharge planned for 2/9/65.

ROUGH DRAFT
AFTER FILL-IN

ROUGH DRAFT
AFTER FILL-IN

REACTOR OPERATIONS DAILY REPORT

DATE 2/7/65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1950	2125	1875		0	0	4400	4400	5950	8800	14750
2. MAXIMUM POWER LEVEL - MW	1945	2060	1875		1940	0	4400	4400	7820	8800	16620
3. INPUT PRODUCTION - MWD	1940	1923	1875		1207	0	4400	4400	6945	8800	15745
4. OUTAGE HOURS	0	0	0		9.3	24.0	0	0	33.3	0	33.3
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	1624	6252	3179		6815	+103	+7973	+2725	-11.4	+10.7	-0.7
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	5.1	5.4	5.2		7.9	7.4	4.8	4.0	LINE 5 TOTALS IN KWWD'S		
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	89.9	84.8	85.3		9.5	16.5	84.8	85.5	INPUT PROD. FORECAST FOR MO.		
8. REACTOR WATER FLOW RATE AT 2330- GPM $\pm$ 1000	87.9	99.1	89.0		26.2	5.5	208.0	203.5	220.7	203.6	424.3
9. FACTOR LIMITING POWER LEVEL	N.E.	N.E.	N.P.				E.A.L.	E.A.L.	TIME OPER. EFF. - MO-TO-DATE		
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.	12	N.		52	2-8-65	N.	N.	83.2	80.5	82.4
11. ESTIMATED STARTUP TIME					2000	2-10-65 0800			TIME OPER. EFF. FORECAST FOR MO.		
									79.0	86.5	81.1

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLET.	REMAINING		
	12-2-65	0	0	0	2	0	3	4	0	321

REMARKS:

2/7/65

F - Reactor scrammed at 1441 hours by an unexplained Panellit trip. Miscellaneous maintenance work is in progress.

H - Scheduled charge-discharge is in progress.

ROUGH DRAFT
AFTER FILL-IN

This document classified by

*Long Paul*ROUGH DRAFT
AFTER FILL-IN

REACTOR OPERATIONS DAILY REPORT

DATE 2-8-65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1965	2185	1875		1000	0	4400	4400	7025	8800	15825
2. MAXIMUM POWER LEVEL - MW	1960	2175	1875		0	0	4400	4400	6010	8800	14810
3. INPUT PRODUCTION - MWD	1951	2145	1875		0	0	4400	4400	5971	8800	14771
4. OUTAGE HOURS	0	0	0		24.0	24.0	0	0	48.0	0	48.0
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	-1191	-5932	+3636		-8337	-1498	+9112	+3114	-13.3	+12.2	-1.1
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	5.0	5.6	4.8		8.0	7.7	4.4	3.7	LINE 5 TOTALS IN KWWD'S		
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	90.4	89.0	84.9		10.6	8.0	84.5	85.4	INPUT PROD. FORECAST FOR MO.		
8. REACTOR WATER FLOW RATE AT 2330- GPM $\div$ 1000	88.3	99.9	89.0		28.0	6.3	208.5	203.0	220.7	203.6	424.3
9. FACTOR LIMITING POWER LEVEL	T.A.I.	N.E.	T.P.				E.A.L.	E.A.L.	TIME OPER. EFF. - MO-TO-DATE		
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.	13	N.				N.	N.	65.2	100.0	75.1
11. ESTIMATED STARTUP TIME						2-10-65			TIME OPER. EFF. - 30 DAY AVG.		
						0800			82.5	81.8	82.3
									79.0	86.5	81.1

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
	1	0	1	1	2	0	3	4	0	325.0

REMARKS:

C - The fog spray was actuated twice by spurious iodine trips. The cause has not yet been determined.

F - Continued down on an outage caused by an unexplained Panellit trip. Tube 0561 was replaced due to a rear Van Stone flange leak. Tube 3867 was replaced because of an internal leak.

H - Completed the block charge-discharge. Leak testing is in progress.

2/9/65 (12-8)

F - Resumed operation at 0355 hours.

GROUP 1

Excluded from automatic downgrading and declassification

RESTRICTED DATA

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ROUGH DRAFT

AFTER FILL-IN

ROUGH DRAFT
AFTER FILL-IN

REACTOR OPERATIONS DAILY REPORT

DATE 2-9-65

This document is classified
by *St. P. Prud'homme*

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1965	2200	1875		1925	0	4400	4400	7965	8800	16765
2. MAXIMUM POWER LEVEL - MW	1965	2200	1875		1810	0	4400	4400	7850	8800	16650
3. INPUT PRODUCTION - MWD	1964	2190	1875		1083	0	4400	4400	7112	8800	15912
4. OUTAGE HOURS	0	0	0		3.9	24.0	0	0	27.9	0	27.9
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	-745	-5567	+4093		-8775	-3088	+10251	+3501	-14.1	+13.8	-0.3
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	4.8	5.1	4.6		5.8	5.9	4.0	3.4	LINE 5 TOTALS IN KWWD'S		
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	90.5	89.9	84.8		82.4	10.2	84.3	85.0	INPUT PROD. FORECAST FOR MO.		
8. REACTOR WATER FLOW RATE AT 2330- GPM ÷ 1000	88.1	99.4	89.0		89.9	84.3	208.5	202.5	66.5	100.0	76.1
9. FACTOR LIMITING POWER LEVEL	T.A.I.	G.	T.P.		N.E.		E.A.L.	E.A.L.	82.4	81.8	82.2
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.	N.	N.		18		N.	20	TIME OPER. EFF. - MO-TO-DATE		
11. ESTIMATED STARTUP TIME						2-10-65			79.0	86.5	81.1
						1100			TIME OPER. EFF. - 30 DAY AVG.		

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
	1	0	2	1	2	0	3	4	0	358.0

REMARKS:

F - Resumed operation at 0355 hours concluding an outage caused by an unexplained Panellit trip.

H - Continuing down on scheduled outage. The entire reactor was helium leak checked and one internal leak (tube 2875) was found and the tube was replaced. A Panellit base check is in progress preparing for startup.

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GROUP 1

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ROUGH DRAFT
AFTER FILL-IN

ROUGH DRAFT
 AFTER FILL-IN

REACTOR OPERATIONS DAILY REPORT

DATE 2-10-65

This document classified by

E. P. [Signature]

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	2000	2200	0		1955	1850	4400	4400	8005	8800	16805
2. MAXIMUM POWER LEVEL - MW	1990	2200	1875		1955	1700	4400	4400	9720	8800	18520
3. INPUT PRODUCTION - MWD	1971	2200	1783		1930	801	4400	4400	8685	8800	17485
4. OUTAGE HOURS	0	0	1.1		0	10.0	0	0	11.1	0	11.1
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	-232	-5192	4458		-8367	-3898	+11390	+3890	-13.3	+15.3	+2.0
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	4.6	4.8	4.6		5.9	5.6	4.5	3.5	220.7	203.6	424.3
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	91.0	89.3	10.2		88.4	75.0	84.3	85.1	TIME OPER. EFF. - MO-TO-DATE		
8. REACTOR WATER FLOW RATE AT 2330- GPM ÷ 1000	88.5	99.4	84.0		90.4	93.1	207.5	203.0	68.9	100.0	77.8
9. FACTOR LIMITING POWER LEVEL	T.A.I.	G.			N.E.	N.E.	E.A.L.	E.A.L.	82.8	81.8	82.5
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.	N.			41		N.	N.	TIME OPER. EFF. FORECAST FOR MO.		
11. ESTIMATED STARTUP TIME			2-12-65 1200						79.0	86.5	81.1

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
	13	0	2	1	2	0	3	4	0	361.0

REMARKS:

Reactor screamed at 2257 hours due to a stuck I&E natural metal rupture in tube 2674. The rupture has not yet been removed. The discharge of fringe tubes and leak testing will be completed during the outage.

Resumed operation at 1000 hours.

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ROUGH DRAFT

ROUGH DRAFT
AFTER FILL-IN

REACTOR OPERATIONS DAILY REPORT

DATE 2-11-65

This document classified by
Ray P. Smith

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	2000	2200	0		1980	0	4400	4400	6180	8800	14980
2. MAXIMUM POWER LEVEL - MW	2000	2200	0		1970	1950	4400	4400	8120	8800	16920
3. INPUT PRODUCTION - MWD	1998	2200	0		1960	1212	4400	4400	7370	8800	16170
4. OUTAGE HOURS	0	0	24.0		0	8.4	0	0	32.4	0	32.4
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	+188	-4817	+3040		-7928	-4285	+12529	+4279	-13.8	+16.8	+3.0
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	4.6	5.0	5.5		5.7	6.8	4.3	3.4	LINE 5 TOTALS IN KWWD'S		
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	91.6	89.4	12.2		89.0	22.5	84.3	85.1	INPUT PROD. FORECAST FOR MO.		
8. REACTOR WATER FLOW RATE AT 2330- GPM ÷ 1000	88.7	99.6	2.8		90.0	20.2	208.0	203.5	220.7	203.6	424.3
9. FACTOR LIMITING POWER LEVEL	T.A.I.	G.			N.E.		E.A.L.	E.A.L.	TIME OPER. EFF. - MO-TO-DATE		
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.	N.			14		N.	25	69.3	100.0	78.1
11. ESTIMATED STARTUP TIME			2-12-65			2-12-65			TIME OPER. EFF. - 30 DAY AVG.		
			1200			1830			82.0	82.8	82.2
									79.0	86.5	81.1

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
	2	0	2	1	2	0	3	4	1	331.0

REMARKS:

D - The stuck natural metal rupture was removed from tube 2674 using 10,000 lbs. pressure after removing tube ribs. The tube was replaced and the charge-discharge of selected fringe tubes was completed.

H - Reactor shut down at 1537 hours when a B-metal piece jammed in the front ball valve of tube 2088. Miscellaneous fill-in work including spline work and test hole probing will be completed during the minimum outage.

RESTRICTED DATA

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ROUGH DRAFT
AFTER FILL-IN

ROUGH DRAFT

AFTER FILL-IN

This document classified by

REACTOR OPERATIONS DAILY REPORT

DATE 2-12-65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	2000	2215	1275		2000	1800	4400	4400	9290	8800	18090
2. MAXIMUM POWER LEVEL - MW	2000	2210	930		1995	1300	4400	4400	8425	8800	17225
3. INPUT PRODUCTION - MWD	2000	2206	242		1983	191	4400	4400	6622	8800	15422
4. OUTAGE HOURS	0	0	16.3		0	19.3	0	0	35.6	0	35.6
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD									LINE 5 TOTALS IN KWWD'S		
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	4.9	5.1	4.3		5.4	5.3	4.3	3.6	INPUT PROD. FORECAST FOR MO.		
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	92.0	89.9	43.2		89.8	59.7	84.5	85.2	TIME OPER. EFF. - MO-TO-DATE		
8. REACTOR WATER FLOW RATE AT 2330- GPM ÷ 1000	87.9	99.2	87.2		90.0	92.7	208.0	203.5	TIME OPER. EFF. - 30 DAY AVG.		
9. FACTOR LIMITING POWER LEVEL	T.A.I.	G.	N.E.		N.E.	N.E.	E.A.L.	E.A.L.	TIME OPER. EFF. FORECAST FOR MO.		
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.	N.	57		N.		N.	N.			
11. ESTIMATED STARTUP TIME	DATE										
	HOUR										

12. COMBINED REACTORS MONTH-TO-DATE

REMARKS:

- D - Resumed operation at 1620 hours concluding a rupture outage.
- H - Resumed operation at 1915 hours concluding an outage caused by a B-metal piece jammed in a ball valve.

RESTRICTED DATA

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GROUP 1

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ROUGH DRAFT

AFTER FILL-IN

ROUGH DRAFT
AFTER FILL-IN

REACTOR OPERATIONS DAILY REPORT

DATE 2-13-65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	2000	2220	1865		2015	1960	0	4400	10060	4400	14460
2. MAXIMUM POWER LEVEL - MW	2000	2220	1810		2010	1960	4400	4400	1000	8800	18800
3. INPUT PRODUCTION - MWD	2000	2215	1483		2003	1772	3586	4400	9473	7986	17456
4. OUTAGE HOURS	0	0	0		0	0	4.6 16.6	0	0	16.6	16.6
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD									LINE 5 TOTALS IN KWWD'S		
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	4.6	5.0	4.3		5.9	5.2	4.5	3.5			
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	91.8	90.0	81.2		91.2	85.3	7.0	85.1			
8. REACTOR WATER FLOW RATE AT 2330- GPM $\pm$ 1000	27.8	99.0	88.8		90.0	93.2	65.0	203.0			
9. FACTOR LIMITING POWER LEVEL	T.A.I.	G.	N.E.		N.E.	N.E.		E.A.L.			
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.	N.	258		N.	N.		N.			
11. ESTIMATED STARTUP TIME											

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
	3									364.0

REMARKS:

1714
KE - Reactor shut down at 0724 hours for the removal of an I&E natural metal rupture from tube 3082. The rupture was removed with the charging machine and charge-discharge is in progress.

ROUGH DRAFT
AFTER FILL-IN

ROUGH DRAFT
AFTER FILL-IN

REACTOR OPERATIONS DAILY REPORT

DATE 2-14-65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0806 FOLLOWING DAY - MW	2000	2225	1865		2025	1960	0	4400	10075	4400	14475
2. MAXIMUM POWER LEVEL - MW	2000	2220	1865		2020	1960	0	4400	10065	4400	14465
3. INPUT PRODUCTION - MWD	2000	2220	1856		2017	1960	0	4400	10053	4400	14453
4. OUTAGE HOURS	0	0	0		0	0	24.0	0	0	24.0	0
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	+1632	-3651	+2367		-6470	-5160	+10732	+5450	-11.3	+16.2	+4.9
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	4.9	5.6	5.0		6.4	6.2	5.4	3.7	LINE 5 TOTALS IN KWWD'S		
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	91.8	90.7	84.8		92.2	86.8	C.U.	85.4	220.7	203.6	424.3
8. REACTOR WATER FLOW RATE AT 2330- GPM $\pm$ 1000	87.8	98.9	88.8		90.0	93.2	15.2	203.0	73.8	94.0	79.5
9. FACTOR LIMITING POWER LEVEL	T.A.I.	G.	T.P.		N.E.	N.E.		E.A.L.	TIME OPER. EFF. - 30 DAY AVG.		
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.	N.	190		N.	N.		N.	83.1	81.5	82.6
11. ESTIMATED STARTUP TIME							2-15-65 0930		79.0	86.5	81.1
									TIME OPER. EFF. FORECAST FOR MO.		

REMARKS:

KE - Continuing down for scheduled charge-discharge following rupture removal.

2-15-65 (8-12)

C - Reactor shut down at 0806 hours due to indications of a rupture.

ROUGH DRAFT
AFTER FILL-IN

ROUGH DRAFT
AFTER FILL-IN

REACTOR OPERATIONS DAILY REPORT

DATE 2-15-65

This document classified by

STP Fred. C. B.

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	2000	0	1865		2025	1950	4400	4400	7840	8800	16640
2. MAXIMUM POWER LEVEL - MW	2000	2225	1865		2025	1960	4100	4400	10075	8500	18575
3. INPUT PRODUCTION - MWD	2000	746	1865		2025	1958	1815	4400	8594	6215	14809
4. OUTAGE HOURS	0	15.9	0		0	0	10.7	0	15.9	10.7	26.6
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	+2110	-4730	+2814		-5967	-4804	+9286	+5835	-10.6	+15.1	+4.5
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	4.5	5.2	3.6		5.4	4.8	3.9	3.1	LINE 5 TOTALS IN KWWD'S		
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	91.6	13.0	82.5		91.4	85.1	78.3	84.7	INPUT PROD. FORECAST FOR MO.		
8. REACTOR WATER FLOW RATE AT 2330- GPM ± 1000	87.8	6.3	89.0		89.9	93.1	207.0	203.5	220.7	203.6	424.3
9. FACTOR LIMITING POWER LEVEL	T.A.I.		T.P.		B.O.	N.E.	N.E.	E.A.L.	TIME OPER. EFF. - MO-TO-DATE		
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.		91		N.	N.	N.	N.	74.6	94.5	80.3
11. ESTIMATED STARTUP TIME		2-16-65			N.	N.			83.8	81.6	83.2
		1800							TIME OPER. EFF. FORECAST FOR MO.		
									79.0	86.5	81.1

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
	4	0	2	1	2	0	3	4	1	360.0

REMARKS:

C - Reactor shut down at 0800 hours for the removal of an overbore rupture from tube 2967. The rupture was removed with the charging machine and eight tubes of overbore rupture prone material were discharged.

IE - Resumed operation at 1040 hours concluding a rupture outage.

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GROUP 1

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ROUGH DRAFT
AFTER FILL-IN

ROUGH DRAFT
AFTER FILL-IN

REACTOR OPERATIONS DAILY REPORT

DATE 2-16-65

This document classified.
by *E. Prodelich*

	B	C	D	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	2005	1850	1865	2030	1950	4400	4400	9700	8800	18500
2. MAXIMUM POWER LEVEL - MW	2005	100	1865	2025	1955	4400	4400	7950	8800	16750
3. INPUT PRODUCTION - MWD	2000	0	1865	2025	1950	4367	4400	7840	8767	16607
4. OUTAGE HOURS	0	23.6	0	0	0	0	0	23.6	0	23.6
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	+2598	-6555	+3261	-5463	-4454	+10392	+6224	LINE 8 TOTALS IN KWWD'S		
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	4.8	5.3	3.7	5.4	4.8	3.9	3.1	-10.6	16.6	+6.0
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	92.0	6.7	83.2	91.2	85.0	84.0	84.7	INPUT PROD. FORECAST FOR MO.		
8. REACTOR WATER FLOW RATE AT 2330- GPM + 1000	87.8	89.8	89.0	89.9	93.0	208.0	203.0	220.7	203.6	424.3
9. FACTOR LIMITING POWER LEVEL	T.A.I.I.		T.P.	B.O.	N.E.	E.A.I.L.	E.A.I.L.	75.0	94.9	80.7
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.		95	N.	N.	N.	N.	83.8	81.6	83.2
11. ESTIMATED STARTUP TIME								TIME OPER. EFF. - 30 DAY AVG.		
								79.0	86.5	81.1
								TIME OPER. EFF. FORECAST FOR MO.		

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	EMR.	TUBE	V.S.			COMPLETED	REMAINING		
	4	0	2	1	2	0	3	4	1	363.0

REMARKS:

C - Resumed operation at 2335 hours concluding a rupture outage. The startup was delayed about five hours; three hours when a plug in an old thermocouple well failed and two hours when the check valve on No. 4 process pump failed to open.

F - A new maximum power level record of 2025 MW was established exceeding their previous record by five MW.

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ROUGH DRAFT
AFTER FILL-IN

ROUGH DRAFT
AFTER

REACTOR OPERATIONS DAILY REPORT

DATE 2/17/65

This document classified by

Classified

	S	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	2010	2060	0		2035	1950	4400	4400	8055	8800	16855
2. MAXIMUM POWER LEVEL - MW	2010	2040	1865		2035	1950	4400	4400	9900	8800	18700
3. INPUT PRODUCTION - MWD	2008	1810	1865		2030	1950	4400	4400	9663	8800	18463
4. OUTAGE HOURS	0	0	0		0	0	0	0	0	0	0
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	+3085	-6570	+3708		-4954	-4104	+11531	+6613	-8.8	+18.1	+9.3
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	4.5	5.0	4.0		5.9	5.2	4.1	3.3	LINE 8 TOTALS IN KWWD'S		
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	92.0	83.4	83.8		92.1	85.6	84.4	84.8	INPUT PROD. FORECAST FOR MO.		
8. REACTOR WATER FLOW RATE AT 2330- GPM $\div$ 1000	88.0	97.5	89.0		89.8	93.1	208.8	203.0	220.7	203.6	424.3
9. FACTOR LIMITING POWER LEVEL	T.A.I.	N.E.	T.P.		B.O.	N.E.	E.A.L.	E.A.L.	TIME OPER. EFF. - MO-TO-DATE		
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.	15	34		N.	N.	N.	N.	84.0	81.6	83.3
11. ESTIMATED STARTUP TIME			2-24-65						TIME OPER. EFF. - 30 DAY AVG.		
			0400						79.0	86.5	81.1

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS	
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING			
	16 for year 15	0 for year 10	2	1	2	0	4	3	1	367.0	

REMARKS:

F - A new maximum power level record of 2035 MW was achieved.

2-18-65 Reactor shut down at 0315 hours for the removal of an I&E natural metal rupture from tube 2067. The reactor will remain down for scheduled charge-discharge and maintenance planned for 2/20/65.

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ROUGH DRAFT
AFTER FILL-IN

REACTOR OPERATIONS DAILY REPORT

DATE 2/18/65

REEL DRAFT
AFTER FILL-IN

	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
12: COMBINED REACTORS MONTH-TO-DATE	5	0	2	1	3	0	4	2	1	342.0

D - Reactor scrambled at 0350 hrs. due to a stuck rupture in tube 2067. The rupture was removed using 4500 lbs after removing tube ribs. Charge-discharge scheduled for 2/20/65 is in progress.

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KE - Reactor scrambled at 1419 hours by an unexplained Panellit trip on thoria tube 5881. Scheduled charge-discharge planned for 2/28/65 will be completed.

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ROUGH DRAFT
AFTER FILL-IN

ROUGH DRAFT
AFTER FILL-IN

REACTOR OPERATIONS DAILY REPORT

This document classified

by *E. J. Prud'homme*

DATE 2-19-65

	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	2010	2190	0	2040	1950	0	4400	8190	4400	12590
2. MAXIMUM POWER LEVEL - MW	2010	2180	0	2040	1950	0	4400	8180	4400	12580
3. INPUT PRODUCTION - MWD	2010	2160	0	2040	1950	0	4400	8160	4400	12560
4. OUTAGE HOURS	0	0	24.0	0	0	24.0	0	24.0	24.0	48.0
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD										
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	5.1	5.3	4.7	6.0	5.6	6.0	4.0			
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	92.0	89.0	9.0	92.8	85.5	C.U.	85.4			
8. REACTOR WATER FLOW RATE AT 2330- GPM $\div$ 1000	88.7	99.6	4.3	89.5	93.0	17.6	203.0			
9. FACTOR LIMITING POWER LEVEL	T.A.I.	N.E		B.O.	N.E.		E.A.L.			
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.	N.		N.	N.		N.			
11. ESTIMATED STARTUP TIME	DATE									
	HOURLY									

2. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
										322

REMARKS:

D - Reactor continuing down following rupture removal to complete scheduled charge-discharge.

KE - The unexplained Panellit trip on tube 5881 on 2/18/65 was caused by a ruptured thoria piece. A small charge-discharge of natural metal is being completed.

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ROUGH DRAFT
AFTER FILL-IN

ROUGH DRAFT
AFTER FILL-IN

REACTOR OPERATIONS DAILY REPORT

DATE 2-20-65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	2010	2235	0		2040	1950	4400	4400	8235	8800	17035
2. MAXIMUM POWER LEVEL - MW	2010	2220	0		2040	1950	4400	4400	8220	8800	17020
3. INPUT PRODUCTION - MWD	2010	2202	0		2040	1950	2507	4400	8202	6957	15109
4. OUTAGE HOURS	0	0	24.0		0	0	7.0	0	24.0	7.0	31.0
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD									LINE 5 TOTALS IN KWWD'S		
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	5.2	5.7	5.1		6.8	6.4	4.8	3.9	INPUT PROD. FORECAST FOR MO.		
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	92.1	90.9	7.2		93.4	86.0	84.6	85.5	TIME OPER. EFF. - MO-TO-DATE		
8. REACTOR WATER FLOW RATE AT 2330- GPM $\div$ 1000	88.8	99.6	4.7		89.7	93.0	207.5	203.0	TIME OPER. EFF. - 30 DAY AVG.		
9. FACTOR LIMITING POWER LEVEL	T.A.I.	G.			B.O.	N.E.	E.A.L.	E.A.L.	TIME OPER. EFF. FORECAST FOR MO.		
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.	N.			N.	N.		N.			
11. ESTIMATED STARTUP TIME	DATE										
	HOUR										

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
										325.0

REMARKS:

D - Reactor continuing down for scheduled work. Tubes 2175 and 1477 were found to be leaking and are being replaced. The charging of thorium and the supporting enrichment is in progress.

KE - Resumed operation at 0700 hours.

ROUGH DRAFT
AFTER FILL-IN

ROUGH DRAFT

AFTER FILL-IN

REACTOR OPERATIONS DAILY REPORT

DATE 2/21/65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	2010	2260	0		2040	1975	4400	4400	8285	8800	17085
2. MAXIMUM POWER LEVEL - MW	2010	2260	0		2040	1965	4400	4400	8275	8800	17075
3. INPUT PRODUCTION - MWD	2010	2242	0		2040	1956	4400	4400	8248	8800	17048
4. OUTAGE HOURS	0	0	24.0		0	0	0	0	24.0	0	24.0
5. INPUT PRODUCTION VARIANCE FROM FORECAST-N-T-D - MWD											LINE 5 TOTALS IN KMW'S
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	5.0	5.4	5.0		6.4	5.7	4.6	3.7			INPUT PROD. FORECAST FOR MO.
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	92.0	92.0	6.2		93.0	86.7	84.6	85.4			TIME OPER. EFF. - MO-TO-DATE
8. REACTOR WATER FLOW RATE AT 2330- GPM ± 1000	88.8	99.6	4.4		89.8	93.0	207.5	2030			TIME OPER. EFF. - 30 DAY AVG.
9. FACTOR LIMITING POWER LEVEL	T.A.I.	G.			B.O.	N.E.	E.A.L.	E.A.L.			TIME OPER. EFF. FORECAST FOR MO.
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.	N.			N.	0	N.	N.			
11. ESTIMATED STARTUP TIME											

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
										324.0

REMARKS:

D - Continuing down for scheduled work. The charging of enriched metal is in progress; also replaced four process tubes and replaced 32 Venturi with double orifices.

ROUGH DRAFT

AFTER FILL-IN

DRAFT
AFTER FILL-IN

REACTOR OPERATIONS DAILY REPORT

DATE 2/22/65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	2010	2270	0		0	2010	4400	0	6290	4400	10690
2. MAXIMUM POWER LEVEL - MW	2010	2270	0		2040	2000	4400	4400	8320	8800	17120
3. INPUT PRODUCTION - MWD	2010	2265	0		1636	1984	4400	4355	7895	8755	16650
4. OUTAGE HOURS	0	0	24.0		4.7	0	0	0	28.7	0	28.7
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	+5549	-4737	-3804		-2769	-2314	+9191	+8520	-7.3	+17.7	+10.4
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	4.9	5.2	6.0		6.4	5.5	4.4	3.6	220.7	203.6	424.3
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	92.0	92.8	6.5		8.6	88.1	84.4	85.3	TIME OPER. EFF. - MO-TO-DATE		
8. REACTOR WATER FLOW RATE AT 2330- GPM ÷ 1000	88.7	99.4	4.2		83.1	92.9	207.5	203.0	77.2	92.4	81.6
9. FACTOR LIMITING POWER LEVEL	T.A.I.	G.				N.E.	E.A.L.	E.A.L.	TIME OPER. EFF. - 30 DAY AVG.		
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.	N.				N.	N.	N.	82.7	82.1	82.5
11. ESTIMATED STARTUP TIME			2-24-65 0800		2-24-65 1200			2-28-65 0001	TIME OPER. EFF. FORECAST FOR MO.		
									79.0	86.5	81.1

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	Y.S.			COMPLETED	REMAINING		
	17-41-1965	0	4	1	2	0	5	1	2	326.0

REMARKS:

- D - Completed the charging of enriched metal. The repair of the crossover leak is in progress.
- F - Reactor shut down at 1920 hours for the replacement of a stuck I&E natural metal rupture from tube 1283.
- KW - Reactor shut down at 2400 hours for scheduled charge-discharge and maintenance.
- * Thoria rupture not included.

finally tested a gasket.

ROUGH DRAFT
AFTER FILL-IN

ROUGH DRAFT
AFTER FILL-IN

REACTOR OPERATIONS DAILY REPORT

DATE 2-23-65

This document classified by

Long Richard

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	2010	2275	0		0	0	4400	0	4285	4400	8685
2. MAXIMUM POWER LEVEL - MW	2010	2275	0		0	2040	4400	0	6325	4400	10725
3. INPUT PRODUCTION - MWD	2010	2273	0		0	1885	4400	0	6168	4400	10568
4. OUTAGE HOURS	0	0	24.0		24.0	1.6	0	24.0	49.6	24.0	73.6
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	+6041	-4269	-4502		-4291	-2029	+10330	+4509	-9.1	+14.8	+5.7
6. REACTOR INLET WATER TEMPERATURE AT 2330-C	4.7	5.0	4.5		7.8	5.2	4.2	4.7	LINE 8 TOTALS IN KMW'S		
7. BULK OUTLET WATER TEMPERATURE AT 2330-C	51.8	32.2	5.5		12.6	11.0	84.2	C.U.	220.7	203.6	424.3
8. REACTOR WATER FLOW RATE AT 2330- GPM ÷ 1000	88.7	99.8	4.3		5.1	85.0	207.5	14.5	76.4	90.6	80.5
9. FACTOR LIMITING POWER LEVEL	E.A.I.	G.					E.A.L.		TIME OPER. EFF. - 30 DAY AVG.		
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.	N.					N.		81.3	83.2	81.8
11. ESTIMATED STARTUP TIME			2-24-64 1200			2-25-65 0800		2-28-65 0001	TIME OPER. EFF. FORECAST FOR MO.		
									79.0	86.5	81.1

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	MAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
	18 for year	0	3	2	2	0	5	1	2	280.0

REMARKS:

- Reactor continuing down for the completion of miscellaneous maintenance following scheduled charge-discharge.
- The stuck rupture was removed and a small charge-discharge completed.
- Reactor screamed at 2225 hours by a high pressure Panellit trip caused by a stuck I&E natural metal rupture in tube 3280.
- Continuing down on a scheduled outage. The charge-discharge of thoria is in progress.
- Resumed operation at 0801 hours concluding a rupture outage.

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GROUP 1

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* Two thoria ruptures not included.

ROUGH DRAFT
AFTER FILL-IN

RESTRICTED DATA

ROUGH DRAFT

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REACTOR OPERATIONS DAILY REPORT

DATE 2/24/65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	0	2275	1435		1380	0	4400	0	5090	4400	9490
2. MAXIMUM POWER LEVEL - MW	2010	2275	980		1050	0	4400	0	6315	4400	10715
3. INPUT PRODUCTION - MWD	2010	2275	78		522	0	4400	0	4885	4400	9285
4. OUTAGE HOURS	0	0	20.2		8.0	24.0	0	24.0	52.2	24.0	76.2
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	+6533	-3839	-5842		-5292	-3629	+11469	+498	-12.1	+12.0	-0.1
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	4.8	5.3	5.2		6.0	7.0	4.3	5.2	LINE 5 TOTALS IN KWWD'S		
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	91.9	93.3	48.0		50.7	8.0	84.4	C.U.	INPUT PROD. FORECAST FOR MO.		
8. REACTOR WATER FLOW RATE AT 2330- GPM $\pm$ 1000	88.5	99.5	84.0		89.2	22.2	207.5	12.5	220.7	203.6	424.3
9. FACTOR LIMITING POWER LEVEL	T.A.I.	G.	N.E.		N.E.		E.A.L.		TIME OPER. EFF. - MO-TO-DATE		
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.	N.	N.		N.		N.		75.6	88.9	79.4
11. ESTIMATED STARTUP TIME	2-28-65 0600								TIME OPER. EFF. - 30 DAY AVG.		
									79.8	84.5	81.2
									TIME OPER. EFF. FORECAST FOR MO.		
									79.0	86.5	81.1

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
	18	0	3	2	2	0	5	1	3	298.0

REMARKS:

Reactor resumed operation at 1720 hours concluding an outage initiated by a rupture and continued down for scheduled charge-discharge. Reactor down from 1817 hours to 2114 hours for thermocouple repair.

Reactor resumed operation at 0801 hrs. concluding a rupture outage.

The stuck I&E natural metal rupture was removed from tube 3280 using 8000 lbs. pressure after cutting tube ribs. One-half of one hopper of 3X system balls were dropped when the lock bar was removed from hopper No. 47 and the holding solenoid failed. Ball recovery is in progress.

Continuing on schedule. The charging of thorium was completed and the charging of support enrichment is in progress.

2-25-65

Reactor shut down at 0625 hrs. for scheduled charge-discharge.

Reactor resumed operation at 0824 hrs.

* Two thorium failures not included.

GROUP 1

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ROUGH DRAFT

ROUGH DRAFT
AFTER FILL-IN

REACTOR OPERATIONS DAILY REPORT

DATE 2/25/65

This document classified

by *E. J. Pruden*

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	0	2280	1680		1815	1945	4400	0	7720	4400	12120
2. MAXIMUM POWER LEVEL - MW	2010	2280	1740		1775	1750	4400	0	9555	4400	13955
3. INPUT PRODUCTION - MWD	527	2278	1465		1471	885	4400	0	6626	4400	11026
4. OUTAGE HOURS	17.6	0	0		0	8.4	0	24.0	26.0	24.0	50.0
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	+5542	-3386	-5795		-5341	-4344	+12608	-3513	-13.3	+9.1	-4.2
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	7.2	5.7	4.6		6.1	5.5	4.7	4.2	LINE 5 TOTALS IN KWWD'S		
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	12.8	93.1	78.2		81.2	77.4	84.6	C.U.	INPUT PROD. FORECAST FOR MO.		
8. REACTOR WATER FLOW RATE AT 2330- GPM ± 1000	14.7	99.5	85.7		90.1	93.1	207.5	13.0	220.7	203.6	424.3
9. FACTOR LIMITING POWER LEVEL		G.	**		N.E.	N.E.	E.A.L.		TIME OPER. EFF. - MO-TO-DATE		
10. DAILY ABNORMAL WATER COLLECTION - GALS.		N.	N.		26	N.	N.		75.7	87.3	-79.0
11. ESTIMATED STARTUP TIME	DATE 2-28-65 HOUR 0600								79.1	84.5	80.6
									TIME OPER. EFF. FORECAST FOR MO.		
									79.0	86.5	81.1

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
	18	0	3	2	2	0	6	0	3	288.0

REMARKS:

Reactor shut down at 0625 hours for scheduled charge-discharge.
Reactor resumed operation at 0824 hours concluding a rupture outage.
Continuing down on a scheduled outage. Charge-discharge was completed. Maintenance work is in progress. A ruptured thoria piece was removed from tube 5083.

Three thoria failures not included
Lower level limited by thoria loading restrictions.

RECEIVED
This document contains information that is exempt from automatic downgrading and declassification.

EXCLUDED FROM AUTOMATIC DOWNGRADING AND DECLASSIFICATION

ROUGH DRAFT
AFTER FILL-IN

This document classified by
Edmund J. Pundak

ROUGH DRAFT
AFTER FILL-IN

REACTOR OPERATIONS DAILY REPORT

DATE 2-26-65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	0	2280	0		1920	2020	4400	0	6220	4400	10620
2. MAXIMUM POWER LEVEL - MW	0	2280	1680		1920	2000	4400	0	7880	4400	12280
3. INPUT PRODUCTION - MWD	0	2280	1223		1851	1930	4400	0	7284	4400	11684
4. OUTAGE HOURS	24.0	0	6.5		0	0	0	24.0	30.5	24.0	54.5
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD									LINE 5 TOTALS IN KWWD'S		
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	8.9	5.3	6.1		6.3	5.5	4.5	5.0	INPUT PROD. FORECAST FOR MO.		
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	12.9	93.3	9.1		87.5	87.2	84.5	C.U.	TIME OPER. EFF. - MO-TO-DATE		
8. REACTOR WATER FLOW RATE AT 2330- GPM ÷ 1000	7.3	99.4	29.0		89.7	93.0	208.1	14.0	TIME OPER. EFF. - 30 DAY AVG.		
9. FACTOR LIMITING POWER LEVEL		G			N.E.	N.E.	E.A.L.		TIME OPER. EFF. FORECAST FOR MO.		
10. DAILY ABNORMAL WATER COLLECTION - GALS.		N.			25	N.	N.				
11. ESTIMATED STARTUP TIME	DATE										
	HOUR										

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
										276.0

REMARKS:

- B - Reactor continuing down for scheduled charge-discharge.
- D - Reactor scrambled by the No. 2 safety circuit at 1728 hours due to a power failure caused by wet weeds between busses at 190 DR.
- KW - Reactor continuing down for maintenance following the completion of scheduled charge-discharge.

RESTRICTED DATA

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GROUP 1

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ROUGH DRAFT
AFTER FILL-IN

REACTOR OPERATIONS DAILY REPORT

DATE 2-27-65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	0	2285	1300		1965	2040	4400	0	7590	4400	11990
2. MAXIMUM POWER LEVEL - MW	0	2295	1000		1960	2030	4400	0	7275	4400	11675
3. INPUT PRODUCTION - MWD	0	2282	75		1942	2020	4400	0	6319	4400	10719
4. OUTAGE HOURS	24.0	0	21.2		0	0	0	24.0	45.2	24.0	69.2
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD									LINE S TOTALS IN KAWD'S		
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	8.6	6.2	5.2		6.7	6.0	4.9	4.4			INPUT PROD.FORECAST FOR MO.
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	11.0	94.0	48.7		89.7	89.4	85.0	C.U.			TIME OPER. EFF. - MO-TO-DATE
8. REACTOR WATER FLOW RATE AT 2330- GPM ± 1000	8.3	99.5	84.5		90.0	93.0	208.0	189.5			TIME OPER. EFF. - 30 DAY AVG.
9. FACTOR LIMITING POWER LEVEL		G.	N.E.		N.E.	N.E.	E.A.L.				TIME OPER. EFF. FORECAST FOR MO.
10. DAILY ABNORMAL WATER COLLECTION - GAL.S.		N.			29	N.	N.				
11. ESTIMATED STARTUP TIME DATE _____ HOUR _____											
12. COMBINED REACTORS MONTH-TO-DATE	NAT.	RUPTURES	WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES COMPLETED	OUTAGES REMAINING	OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS	
		ENR.	TUBE	V.S.							
										338.0	

583818

B - Continuing down for scheduled charge-discharge.

D - Resumed operation at 2110 hours concluding an outage caused by a power failure.

KKW - Continuing down for scheduled maintenance work. RTD work was completed and startup checks are in progress.

ROUGH DRAFT

ROUGH DRAFT

AFTER FILL-IN

REACTOR OPERATIONS DAILY REPORT

DATE 2-28-65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1550	2285	1775		1975	2055	0	3620	9640	3620	13260
2. MAXIMUM POWER LEVEL - MW	1550	2285	1755		1965	2045	4400	3300	9600	7700	17300
3. INPUT PRODUCTION - MWD	72	2285	1435		1965	2041	4400	1299	7798	5699	13497
4. OUTAGE HOURS	20.3	0	0		0	0	0	11.9	20.3	11.9	32.2
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	+1064	-2024	-7312		-4147	-3153	+16033	-14246	-15.6	+1.8	-13.8
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	5.5	5.6	4.8		6.6	5.9	5.0	4.1	INPUT PROD. FORECAST FOR MO.		
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	36.1	93.5	82.1		89.8	90.0	84.7	64.2	220.7	203.6	424.3
8. REACTOR WATER FLOW RATE AT 2330- GPM ± 1000	84.5	99.5	85.8		90.0	93.6	208.0	205.0	75.4	84.2	78.0
9. FACTOR LIMITING POWER LEVEL	N.E.	G.	N.E.		N.E.	N.E.	E.A.L.	N.E.	76.4	84.3	78.7
10. DAILY ABNORMAL WATER COLLECTION - GALS.		N.	N.		16	N.		96	TIME OPER. EFF. - 30 DAY AVG.		
11. ESTIMATED STARTUP TIME							3-4-65		79.0	86.5	81.1
12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS		RECOVERIES		SCHEDULED OUTAGES		OTHER OUTAGES
	NAT	EMR	TUBE	V.S.			COMPLETED	REMAINING	DAILY PEAK ELECT. DEMAND - MEGAWATTS		
	18 for year		0	4	2	3	0	6	0	3	362.0

REMARKS:

B - Reactor resumed operation at 2018 hours concluding a scheduled charge-discharge. Tube 1380 was replaced due to an internal leak.

KW - Resumed operation at 1152 hours concluding scheduled charge-discharge.

3/1/65 (12-8)

KE - Reactor shut down at 0020 hours for scheduled charge-discharge.

* Three thorium failures not included.

ROUGH DRAFT

AFTER FILL-IN

59

This document classified
by E. J. Prudich

DATE 3/1/65

REMARKS:

Reactor scrambled at 1228 hours due to an unexplained Panellit trip on tube 3470. Reactor leak testing is in progress.

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7-11-54 5000-052 (7-54) AEC-G7 RICHARD WASH.

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ROUGH DRAFT
AFTER FILL-IN

REACTOR OPERATIONS DAILY REPORT

DATE 3/2/65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1875	0	1830		2030	0	0	0	5735	0	5735
2. MAXIMUM POWER LEVEL - MW	1865	0	1830		2025	2110	0	0	7830	0	7830
3. INPUT PRODUCTION - MWD	1833	0	1813		2018	2100	0	0	7764	0	7764
4. OUTAGE HOURS	0	24.0	0		0	0	24.0	24.0	24.0	48.0	72.0
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	+348	-1457	+139		+750	+543	-7492	-5145	+0.7	-12.6	-11.9
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	5.6	5.6	4.1		5.8	5.0	6.2	5.1	LINE 5 TOTALS IN KWWD'S		
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	85.8	10.8	84.9		91.6	91.8	C.U.	C.U.	258.0	224.8	482.8
8. REACTOR WATER FLOW RATE AT 2330- GPM $\pm$ 1000	88.9	6.5	86.3		90.0	93.0	17.0	17.5	89.6	13.3	67.8
9. FACTOR LIMITING POWER LEVEL	N.E.		T.A.I.		N.E.	N.E.			76.4	79.5	77.3
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.	3-4-65	N.		13	3-4-65	1400	10	85.8	86.3	85.9
11. ESTIMATED STARTUP TIME		2300				1600		1600	INPUT PROD. FORECAST FOR MO.		
									TIME OPER. EFF. - MO-TO-DATE		
									TIME OPER. EFF. - 30 DAY AVG.		
									TIME OPER. EFF. FORECAST FOR MO.		

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	HAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
	0	0	0	0	1	0	2	2	0	222.0

REMARKS:

C - Reactor continuing down for scheduled charge-discharge and maintenance.

KW - Completed charge-discharge. Attempts to remove a stuck thorium charge from tube 3098 have been unsuccessful at charging machine pressures (1300 psi). The removal of downstream pieces is in progress.

KW - Continuing down following an unexplained Panellit trip. During leak testing of the reactor two zirconium tubes, 3065 and 3075, failed to hold hydrostatic pressure. Borescoping of these tubes is planned.

3/3/65 (12-8)

H - Reactor scrambled at 0616 hours due to a full scale Panellit trip on tube 1476. Indications of a rupture in this tube are apparent.

GROUP 1
Excluded from automatic downgrading and declassification

ROUGH DRAFT
AFTER FILL-IN

This document classified by

ETP

ROUGH DRAFT
AFTER FILL-IN

REACTOR OPERATIONS DAILY REPORT

DATE 3/3/65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW =	0	0	1870		2035	0	0	0	2905	0	2905
2. MAXIMUM POWER LEVEL - MW	1880	0	1865		2035	2115	0	0	7895	0	7895
3. INPUT PRODUCTION - MWD	956	0	1845		2031	552	0	0	5384	0	5384
4. OUTAGE HOURS	11.6	24.0	0		0	17.7	24.0	24.0	53.3	48.0	101.3
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	-2155	-3273	+792		+1152	-715	-11253	-8635	-2.2	-19.9	-22.1
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	8.7	6.0	4.2		5.6	6.7	6.1	5.3	LINE 5 TOTALS IN ROWS 5		
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	18.0	9.2	86.7		92.0	22.0	C.U.	C.U.	258.0	224.8	482.8
8. REACTOR WATER FLOW RATE AT 2330- GPM ÷ 1000	8.5	6.6	86.2		89.0	25.8	17.0	14.5	78.2	8.9	58.4
9. FACTOR LIMITING POWER LEVEL			T.A.I.		B.O.				76.2	76.2	76.2
10. DAILY ABNORMAL WATER COLLECTION - GALS.			N.		N.	3-4-65	3-5-65	3-4-65	TIME OPER. EFF. - 30 DAY AVG.		
11. ESTIMATED STARTUP TIME	3-4-65 2300	3-4-65 1600				1600	0400	1600	85.8	86.3	85.9
									TIME OPER. EFF. FORECAST FOR MO.		

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES		SCHEDULED OUTAG-S		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.		COMPLETED	REMAINING	COMPLETED	REMAINING		
	1	0	2	0	2	0	2	2	2	0	203.0

REMARKS:

- B - Reactor scrambled at 1224 hours due to a faulty bypass switch on the zone temperature monitoring system.
- C - Continuing down for scheduled charge-discharge and maintenance.
- H - Reactor scrambled at 0616 hrs. by a Panellit trip caused by an I&E natural metal rupture in tube 1476. The rupture was removed using 7000 pounds pressure.
- KE - The stuck thorium charge was removed by pushing tube and charge from channel 3098. The tube was replaced and RTD work is in progress.
- KW - Zirconium tubes 3065 and 3075 were confirmed after leaks. Tube 3075 was removed without splitting. Attempts to split tube 3065 are in progress.

GROUP 1

Excluded from automatic downgrading and declassification

RESTRICTED DATA

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ROUGH DRAFT
AFTER FILL-IN

This document classified by

DATE 3/4/65

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
201-1-10	2	0	1	1	4	2	2	2	0	345.0

GROUP 1

ROUGH DRAFT

— ROUGH DRAFT
AFTER FILL-IN

REACTOR OPERATIONS DAILY REPORT

DATE 3/5/05

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1730	2100	1840		2035	1785	4300	3610	9490	7910	17400
2. MAXIMUM POWER LEVEL - MW	1630	2025	1865		2035	1725	3980	3480	9280	7460	16740
3. INPUT PRODUCTION - MWD	1144	1872	1857		2035	940	2429	2977	7848	5406	13254
4. OUTAGE HOURS	1.3	0	0		0	7.5	6.5	6.7	8.8	7.2	16.0
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD									LINE 5 TOTALS IN KWWD'S		
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	5.5	5.8	5.0		6.4	5.9	5.0	4.4	INPUT PROD. FORECAST FOR MO.		
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	75.3	83.8	86.3		92.9	76.6	77.0	67.9	TIME OPER. EFF. - MO-TO-DATE		
8. REACTOR WATER FLOW RATE AT 2330- GPM ÷ 1000	88.8	102.1	86.0		89.9	92.6	207.0	204.5	TIME OPER. EFF. - 30 DAY AVG.		
9. FACTOR LIMITING POWER LEVEL	N.E.	N.E.	T.A.I.		B.O.	N.E.	N.E.	N.E.	TIME OPER. EFF. FORECAST FOR MO.		
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.	23	N.		N.	52		127			
11. ESTIMATED STARTUP TIME											
12. COMBINED REACTORS MONTH-TO-DATE	NAT.	ENR.	WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES COMPLETED	REMAINING	OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS	
			TUBE	V.S.						352.0	

REMARKS:

H - Resumed operation at 0732 hours concluding a rupture outage.

Reactor down from 0058 hours to 0142 hours due to a Panellit trip caused by an oscillating gauge on thoria tube 2669.

KTE - Reactor resumed at 0627 hours concluding a scheduled outage.

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GROUP 1

Excluded from automatic downgrading
and declassification

-- ROUGH DRAFT
AFTER FILL-IN

ROUGH DRAFT
AFTER FILL-IN

REACTOR OPERATIONS DAILY REPORT

DATE 3/6/65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1850	0	1820		2040	1800	4400	3950	7510	8350	15860
2. MAXIMUM POWER LEVEL - MW	1820	2100	1840		2035	1800	4400	3810	9595	8210	17805
3. INPUT PRODUCTION - MWD	1757	721	1840		2035	1783	4310	3678	8136	7988	16124
4. OUTAGE HOURS	0	15.6	0		0	0	0	0	15.6	0	15.6
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD									LINE 5 TOTALS IN KWWD'S		
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	6.0	5.9	5.1		6.9	6.2	5.0	4.3	INPUT PROD. FORECAST FOR MO.		
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	84.3	7.5	87.4		93.0	80.3	85.2	74.5	TIME OPER. EFF. - MO-TO-DATE		
8. REACTOR WATER FLOW RATE AT 2330- GPM ÷ 1000	88.9	39.3	86.0		90.0	93.0	208.0	205.0	TIME OPER. EFF. - 30 DAY AVG.		
9. FACTOR LIMITING POWER LEVEL	N.E.		T.A.I.		B.O.	N.E.	E.A.L.	N.E.	TIME OPER. EFF. FORECAST FOR MO.		
10. DAILY ABNORMAL WATER COLLECTION - GALS.	15		N.		N.	261	N.	127			
11. ESTIMATED STARTUP TIME	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE			
	HOUR	HOUR	HOUR	HOUR	HOUR	HOUR	HOUR	HOUR			

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
										356.0

REMARKS:

C - Reactor scrambled at 0823 hours by an unexplained Panellit trip on overbore tube 4472. A cracked section of VSR No. 26 was replaced and surge suppressors are being installed in the Panellit line on all overbore tubes.

ROUGH DRAFT
AFTER FILL-IN

- HIGH DRAFT
AFTER FILL-IN

REACTOR OPERATIONS DAILY REPORT

DATE 3/7/65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1925	2040	0		0	0	4400	4100	3965	8500	12465
2. MAXIMUM POWER LEVEL - MW	1925	1900	1840		2040	1800	4400	4100	9505	8500	18005
3. INPUT PRODUCTION - MWD	1879	299	1346		2040	1132	4400	3998	6696	8398	15094
4. OUTAGE HOURS	0	18.5	6.6		0	8.8	0	0	33.9	0	33.9
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	-1513	-7626	+1511		+2781	-4075	-15159	-11936	-8.9	-27.1	-36.0
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	5.6	6.0	6.5		6.9	8.0	5.0	4.5	LINE 5 TOTALS IN KMW'S		
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	88.2	80.0	11.6		93.3	24.0	85.3	79.9	258.0	224.8	482.8
8. REACTOR WATER FLOW RATE AT 2330- GPM $\pm$ 1000	88.8	99.0	27.5		90.0	21.3	208.0	205.0	75.5	45.1	66.8
9. FACTOR LIMITING POWER LEVEL	N.E.	N.E.			B.O.		E.A.L.	N.E.	77.9	72.5	76.3
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.	N.	3-8-65		N.	3-9-65	N.	55	85.8	86.3	85.9
11. ESTIMATED STARTUP TIME			2100		1600	0300			TIME OPER. EFF. - 30 DAY AVG.		
									INPUT PROD. FORECAST FOR MO.		
									TIME OPER. EFF. - MO-TO-DATE		
									TIME OPER. EFF. FORECAST FOR MO.		

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	HAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
	2	0	1	1	6	3	3	1	1	347.0

REMARKS:

C - Resumed operation at 1759 hours concluding an outage caused by a Panellit trip. Reactor scrammed at 1936 hours when the flux monitor trip settings were not properly changed during the rise to turn-around level. Resumed operation at 2009 hours.

D - Reactor shut down at 1725 hours due to high pressure on thorium tubes 0173 and 4673. The tubes were discharged and reactor recharged with thorium.

H - Reactor shut down at 1510 hours due to excessive water collection. Helium leak testing of the entire reactor is in progress.

3/8/65 (12-8)

F - Reactor shut down at 0030 hours for scheduled charge-discharge.

- HIGH DRAFT
AFTER FILL-IN

ROUGH DRAFT

AFTER FILL-IN

REACTOR OPERATIONS DAILY REPORT

DATE 3-8-65

This document classified by

E. J. Prudich

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1960	2180	1350		0	1370	4400	4400	6860	8800	15660
2. MAXIMUM POWER LEVEL - MW	1950	2120	0		2040	1400	4400	4300	7510	8700	16210
3. INPUT PRODUCTION - MWD	1933	2040	0		21	88	4400	4162	4082	8562	12644
4. OUTAGE HOURS	0	0	24.0		23.5	20.7	0	0	68.2	0	68.2
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	-1009	-7404	-37		+1173	-5797	-14520	-11264	LINE 5 TOTALS IN KWWD'S		
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	5.5	5.9	5.2		7.3	6.4	5.1	4.4	INPUT PROD. FORECAST FOR MO.		
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	89.2	87.2	6.4		10.9	65.0	85.3	83.7	258.0	224.8	482.8
8. REACTOR WATER FLOW RATE AT 2330- GPM $\pm$ 1000	88.7	99.4	79.5		8.7	92.2	208.0	205.0	71.5	52.0	65.9
9. FACTOR LIMITING POWER LEVEL	T.A.I.	N.E.				N.E.	E.A.L.	N.E.	76.5	72.5	75.3
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.	15					N.	32	TIME OPER. EFF. - 30 DAY AVG.		
11. ESTIMATED STARTUP TIME	DATE				3-10-65				TIME OPER. EFF. FORECAST FOR MO.		
	1700								85.8	86.3	85.9

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
	2	0	1	2	6	3	3	1	1	317.0

REMARKS:

D - Continued down on an outage initiated to investigate abnormal pressure on two thorium tubes. The tubes were discharged and nothing unusual was found.

F - Reactor shut down at 0030 hours for scheduled charge-discharge.

H - Resumed operation at 2040 hours concluding an outage caused by a water leak. Tube 2179 was replaced due to a rear Van Stone leak.

3/9/65 (12-8)

D - Resumed operation at 0045 hours.

RESTRICTED DATA

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ROUGH DRAFT

AFTER FILL-IN

This document classified by

E. P. Pradach

REACTOR OPERATIONS DAILY REPORT

DATE 3/9/65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1985	2265	1780		0	1770	4400	4400	7800	8800	16600
2. MAXIMUM POWER LEVEL - MW	1975	2250	1745		0	1720	4400	4400	7690	8800	16490
3. INPUT PRODUCTION - MWD	1967	2192	1348		0	1499	4400	4389	7006	8789	15795
4. OUTAGE HOURS	0	0	0.7		24.0	0	0	0	24.7	0	24.7
5. INPUT PRODUCTION VARIANCE FROM FORECAST M-T-D - MWD	-651	-7028	-237		-456	-8108	-13882	-10365	-14.5	-24.2	-38.7
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	5.8	5.8	5.5		9.0	6.8	5.1	4.8	LINE 5 TOTALS IN KWWD'S		
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	90.4	92.6	82.0		9.6	76.4	85.6	85.7	INPUT PROD. FORECAST FOR MO.		
8. REACTOR WATER FLOW RATE AT 2330- GPM ÷ 1000	88.9	99.6	86.2		7.3	93.0	208.0	205.0	258.0	224.8	482.8
9. FACTOR LIMITING POWER LEVEL	T.A.I.	N.E.	N.E.			N.E.	E.A.L.	E.A.L.	TIME OPER. EFF. - MO-TO-DATE		
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.	16	N.			85	N.	26	76.7	72.5	75.5
11. ESTIMATED STARTUP TIME					3-10-65				TIME OPER. EFF. FORECAST FOR MO.		
					1700				85.8	86.3	85.9

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
	2	0	1	2	6	3	3	1	1	321.0

REMARKS:

D - Resumed operation at 0045 hours concluding an outage to investigate abnormal pressure on two thoria tubes.

F - Concluded scheduled charge-discharge. Reactor leak testing is in progress.

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ROUGH DRAFT

AFTER FILL-IN

R DRAFT

AFTER FILL-IN

REACTOR OPERATIONS DAILY REPORT

DATE 3-10-65

This document classified by

E. J. Prudich

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	0	2265	1815		1400	1780	4400	4400	7260	8800	16060
2. MAXIMUM POWER LEVEL - MW	1990	2265	1810		0	1780	4400	4400	7845	8800	16645
3. INPUT PRODUCTION - MWD	1984	2264	1789		0	1761	4400	4400	7798	8800	16598
4. OUTAGE HOURS	0	0	0		24.0	0	0	0	24.0	0	24.0
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	-187	-6580	+4		-2085	-6157	-13243	-9455	-15.0	-22.7	-37.7
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	5.8	5.8	5.9		7.5	6.9	5.4	4.8	LINE 5 TOTALS IN KWWD'S		
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	91.2	93.2	85.7		8.7	78.8	85.5	85.8	INPUT PROD. FORECAST FOR MO.		
8. REACTOR WATER FLOW RATE AT 2330- GPM $\pm$ 1000	88.8	99.6	86.0		37.6	93.2	207.5	205.0	258.0	224.8	482.8
9. FACTOR LIMITING POWER LEVEL	T.A.I.	G.	N.E.			N.E.	E.A.L.	E.A.L.	73.1	61.6	69.8
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.	N.	45			60	N.	20	77.4	72.5	76.0
11. ESTIMATED STARTUP TIME	3-13-65 0200								TIME OPER. EFF. - MO-TO-DATE		
									85.8	86.3	85.9
									TIME OPER. EFF. - 30 DAY AVG.		

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	MAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
	3	0	1	4	6	3	3	1	1	

REMARKS:

F - Continued down following the completion of scheduled charge-discharge to complete reactor leak testing.
 Tube 3862 was replaced due to a leaking rear Van Stone and a new rear Van Stone flange was formed on leaking tube 3072.

3-11-65 (12-8)

B - Reactor shut down at 0505 hours due to a failed I&E enriched fuel element in tube 2760.

F - Resumed operation at 0320 hours.

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R DRAFT

AFTER FILL-IN

This document classified by

REACTOR OPERATIONS DAILY REPORT

DATE 3-11-65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0000 FOLLOWING DAY - MW	0	2265	1865		1900	1810	4400	4400	7840	8800	16640
2. MAXIMUM POWER LEVEL - MW	1995	2265	1860		1800	1795	4400	4400	9715	8800	18515
3. INPUT PRODUCTION - MWD	415	2265	1832		1269	1783	4400	4400	7564	8800	16364
4. OUTAGE HOURS	18.9	0	0		3.3	0	0	0	22.2	0	22.2
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	-1291	-6131	+288		-2445	-6184	-12604	-8545	-15.8	-21.1	-36.9
6. REACTOR INLET WATER TEMPERATURE AT 2100- C	8.3	5.8	5.3		6.9	6.4	5.3	4.7	LINE 5 TOTALS IN ROW 5'S		
7. BULK OUTLET WATER TEMPERATURE AT 2100- C	13.5	93.0	87.7		82.8	80.2	85.5	85.8	INPUT PROD. FORECAST FOR MO.		
8. REACTOR WATER FLOW RATE AT 2100- GPM ± 1000	8.7	100.3	86.0		90.2	93.1	207.5	205.0	258.0	224.8	482.8
9. FACTOR LIMITING POWER LEVEL		G.	T.A.I.		N.E.	T.P.	E.A.L.	E.A.L.	73.8	65.1	71.3
10. DAILY ABNORMAL WATER COLLECTION - GALS.		M.	35		11	29		10	77.5	72.5	76.1
11. ESTIMATED STARTUP TIME	3-12-65 1700								TIME OPER. EFF. - NO-TO-DATE		
									85.8	86.3	85.9
									TIME OPER. EFF. FORECAST FOR MO.		

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	MAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
	*2	1	1	4	6	3	3	1	1	339.0

REMARKS:

(B) Reactor shut down at 0505 hours for the removal of a stuck enriched fuel element from tube 2760. The rupture was removed using 4500 lbs. pressure. A small charge-discharge of enriched metal is in progress. Resumed operation at 0320 hours concluding scheduled charge-discharge.

(C) Inspection of the metal discharged from tube 3098 (because of high palladium pressure) during a scheduled outage on 3/1/65 revealed one failed thoria piece.

* One thoria failure not included.

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GROUP 1

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- ROUGH DRAFT

AFTER FILL-IN

ROUGH DRAFT
AFTER FILL-IN

REACTOR OPERATIONS DAILY REPORT

DATE 3/12/65

This document classified by

Long Paul

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1450	2270	1870		1970	1355	4400	4400	9415	8800	18215
2. MAXIMUM POWER LEVEL - MW	1000	2270	1870		1970	1840	4400	4400	8950	8800	17750
3. INPUT PRODUCTION - MWD	81	2268	1865		1907	1818	4400	4400	7939	8800	16739
4. OUTAGE HOURS	19.2	0	0		0	0	0	0	19.2	0	19.2
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD									LINE 5 TOTALS IN KW'D'S		
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	5.9	5.9	5.9		7.0	6.6	5.3	4.8	INPUT PROD. FORECAST FOR MO.		
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	48.8	93.4	88.1		90.0	81.0	85.6	85.8	TIME OPER. EFF. - MO-TO-DATE		
8. REACTOR WATER FLOW RATE AT 2330- GPM ± 1000	87.8	99.1	86.0		90.4	92.0	208.0	205.0	TIME OPER. EFF. - 30 DAY AVG.		
9. FACTOR LIMITING POWER LEVEL	N.E.	G.	T.A.I.		N.E.	T.P.	E.A.I.	E.A.I.	TIME OPER. EFF. FORECAST FOR MO.		
10. DAILY ABNORMAL WATER COLLECTION - GALS.		N.	26		38	27	N.	25			
11. ESTIMATED STARTUP TIME											

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
										356

REMARKS:

B - Resumed operation at 1910 hours concluding a rupture outage.

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ROUGH DRAFT

AFTER FILL-IN

ROUGH DRAFT
AFTER FILL-IN

REACTOR OPERATIONS DAILY REPORT

DATE 3/13/65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1775	0	1875		2010	1875	4400	4400	7535	8800	16335
2. MAXIMUM POWER LEVEL - MW	1725	2270	1875		2000	1875	4400	4400	9745	8800	18545
3. INPUT PRODUCTION - MWD	1466	2270	1873		1984	1859	4400	4400	9452	8800	18252
4. OUTAGE HOURS	0	0	0		0	0	0	0	0	0	0
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD									LINE 5 TOTALS IN KWWD'S		
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	6.3	6.1	6.1		7.5	7.0	5.8	5.0			
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	80.0	93.5	88.5		92.0	83.0	85.9	86.1			
8. REACTOR WATER FLOW RATE AT 2330- GPM ± 1000	89.0	98.8	86.0		90.3	92.0	208.0	205.0			
9. FACTOR LIMITING POWER LEVEL	N.E.	G.	T.A.I.		N.E.	T.P. 1250	F.A.I.	E.A.I.			
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.	N.	N.		24	N.	N.	N.			
11. ESTIMATED STARTUP TIME											

INPUT PROD. FORECAST FOR MO.

TIME OPER. EFF. - MO-TO-DATE

TIME OPER. EFF. - 30 DAY AVG.

TIME OPER. EFF. FORECAST FOR MO.

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
										357.0

REMARKS:

NO REMARKS.

ROUGH DRAFT
AFTER FILL-IN

AFTER FIL- IN

DATE 3/14/65

ROUGH DRAFT

AFTER FILL-IN

* One thorium failure not included.

- RO, H DRAFT
AFTER FILL-IN

REACTOR OPERATIONS DAILY REPORT

DATE 3-15-65

This document classified by

John F. Smith

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1930	1970	1875		2015	1920	4400	4400	9710	8800	18510
2. MAXIMUM POWER LEVEL - MW	1910	1890	1875		2015	1910	4400	4400	9600	8800	18400
3. INPUT PRODUCTION - MWD	1881	418	1875		2015	1893	4400	4400	8082	8800	16882
4. OUTAGE HOURS	0	17.2	0		0	0	0	0	17.2	0	17.2
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	-2161	-8080	+1584		-1044	-5978	-10049	-4905	-15.7	-14.9	-30.6
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	6.5	6.3	6.0		7.5	7.0	5.8	5.1	LINE 8 TOTALS IN KWWD'S		
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	87.9	77.9	89.3		92.7	85.2	85.8	86.2	INPUT PROD. FORECAST FOR MO.		
8. REACTOR WATER FLOW RATE AT 2330- GPM ± 1000	88.3	97.3	86.0		90.3	93.2	207.0	205.5	258.0	224.8	482.8
9. FACTOR LIMITING POWER LEVEL	N.E.	N.E.	T.A.I.		B.O.	T.P.	E.A.L.	E.A.L.	77.7	74.4	76.7
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.		31		N.	N.	N.	N.	78.2	72.8	76.6
11. ESTIMATED STARTUP TIME									TIME OPER. EFF. - 30 DAY AVG.		
									85.8	86.3	85.9
									TIME OPER. EFF. FORECAST FOR MO.		

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	MAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
#3	1		1	4	6	3	3	1	1	355.0

REMARKS:

1. Reactor resumed operation at 1710 hours concluding a rupture outage.

* One thorium failure not included.

RESTRICTED DATA

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- RO, H DRAFT
AFTER FILL-IN

ROUGH DRAFT

AFTER FILL-IN

This document classified by

REACTOR OPERATIONS DAILY REPORT

DATE 3-16-65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1985	2200	1875		2020	1935	4400	4400	10015	8800	18815
2. MAXIMUM POWER LEVEL - MW	1965	2140	1875		2015	1935	4400	4400	9930	8800	18730
3. INPUT PRODUCTION - MWD	1938	1997	1875		2015	1924	4400	4400	9749	8800	18549
4. OUTAGE HOURS	0	0	0		0	0	0	0	0	0	0
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	-1742	-7899	+1911		-658	-5864	-9411	-3995	-14.2	-13.4	-27.6
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	6.2	5.9	6.0		7.2	6.6	5.4	5.0	LINE 5 TOTALS IN KMW'S		
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	90.0	88.1	89.2		92.3	86.1	85.8	86.0	INPUT PROD. FORECAST FOR MO.		
8. REACTOR WATER FLOW RATE AT 2330- GPM + 1000	88.0	97.2	86.0		90.3	93.2	207.0	205.5	258.0	224.8	482.8
9. FACTOR LIMITING POWER LEVEL	T.A.I.	N.E.	T.A.I.		B.O.	TP	E.A.L.	E.A.L.	79.1	76.0	78.2
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.	N.	N.		N.	N.			78.2	74.5	77.1
11. ESTIMATED STARTUP TIME									TIME OPER. EFF. - 30 DAY AVG.		
									85.8	86.3	85.9
12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAWS	RECOVERIES	SCHEDULED OUTAGES		OTHER	DAILY PEAK ELECT.	
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING	OUTAGES	DEMAND - MEGAWATTS	
	*3	1	1	4	6	3	3	1	1	358.0	

REMARKS:

* One thoria failure not included.

RESTRICTED DATA

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GROUP 1

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ROUGH DRAFT

AFTER FILL-IN

ROUGH DRAFT

AFTER FILL-IN

REACTOR OPERATIONS DAILY REPORT

DATE 3/17/65

This document classified by

Harry J. Prichard

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	2005	2255	1875		2025	1950	4400	4400	10110	8800	18910
2. MAXIMUM POWER LEVEL - MW	2005	2245	1875		2020	1945	4400	4400	10090	8800	18890
3. INPUT PRODUCTION - MWD	1990	2209	1875		2020	1940	4400	4400	10034	8800	18834
4. OUTAGE HOURS	0	0	0		0	0	0	0	0	0	0
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	-1272	-7506	+2236		-267	-5734	-8772	-3085	-12.5	-11.9	-24.4
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	6.1	5.8	5.7		7.1	6.5	5.3	4.8	LINE 8 TOTALS IN KWWD'S		
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	91.4	92.2	89.0		92.8	86.4	85.6	85.8	INPUT PROD. FORECAST FOR MO.		
8. REACTOR WATER FLOW RATE AT 2330- GPM $\pm$ 1000	88.9	98.9	86.0		90.3	93.2	207.5	205.5	80.3	77.4	79.5
9. FACTOR LIMITING POWER Level	T.A.I.	N.E.	T.A.I.		B.O.	T.P.	E.A.L.	E.A.L.	78.6	75.2	77.6
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.	18	N.		N.	N.	N.	N.	TIME OPER. EFF. - MO-TO-DATE		
11. ESTIMATED STARTUP TIME									85.8	86.3	85.9

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
	*3	1	1	4	6	3	3	1	1	358.0

REMARKS:
* One thorium failure not included.

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ROUGH DRAFT

AFTER FILL-IN

ROUGH DRAFT
AFT. FILL-IN

This document classified by
E. Prudich

REACTOR OPERATIONS DAILY REPORT

DATE 3-18-65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	2010	2260	1875		2025	1960	4400	4400	10130	8800	18930
2. MAXIMUM POWER LEVEL - MW	2010	2260	1875		2025	1960	4400	4400	10130	8800	18930
3. INPUT PRODUCTION - MWD	2007	2253	1875		2025	1952	4400	4400	10112	8800	18912
4. OUTAGE HOURS	0	0	0		0	0	0	0	0	0	0
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	-784	-7069	+2565		+129	-5592	-8133	-2175	-10.7	-10.3	-21.0
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	6.1	6.0	5.9		7.5	6.9	5.4	4.9	LINE 5 TOTALS IN KWWD'S		
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	91.4	93.0	89.2		93.0	87.3	85.5	85.8	INPUT PROG. FORECAST FOR MO.		
8. REACTOR WATER FLOW RATE AT 2330- GPM ± 1000	88.8	99.0	86.0		90.3	93.2	207.5	205.5	258.0	224.8	482.8
9. FACTOR LIMITING POWER LEVEL	T.A.I.	G.	T.A.I.		B.O.	TP 1250	E.A.I.	E.A.I.	81.4	78.6	80.6
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.	N.	N.		N.	N.	N.	15	79.3	75.2	78.1
11. ESTIMATED STARTUP TIME									TIME OPER. EFF. - 30 DAY AVG.		
									TIME OPER. EFF. FORECAST FOR MO.		
									85.8	86.3	85.9

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
	*3	1	1	4	6	3	3	1	1	362.0

REMARKS: * One thoria failure not included.

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ROUGH DRAFT
AFTER FILL-IN

- **ROUGH DRAFT**
AFTER FILL-IN

REACTOR OPERATIONS DAILY REPORT

This document classified by

DATE 3/24/65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	2015	2260	1875		2025	1960	4400	4400	10135	8800	18935
2. MAXIMUM POWER LEVEL - MW	2015	2260	1875		2025	1960	4400	4400	10135	8800	18935
3. INPUT PRODUCTION - MWD	2012	2260	1875		2025	1960	4400	4400	10132	8800	18932
4. OUTAGE HOURS	0	0	0		0	0		0	0	0	0
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD											
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	6.2	6.0	6.0		7.4	7.0	5.4	4.8			
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	91.8	93.0	89.3		92.8	87.7	85.6	85.8			
8. REACTOR WATER FLOW RATE AT 2330- GPM ÷ 1000	58.6	100.1	86.0		90.3	93.3	207.5	205.0			
9. FACTOR LIMITING POWER LEVEL	T.A.I.	TP 1625	T.A.I.		B.O.	T.P. 1250	E.A.L.	E.A.L.			
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.	N.	N.		N.	N.	N.	N.			
11. ESTIMATED STARTUP TIME											
	DATE										
	HOOR										

LINE 5 TOTALS IN KWWD'S

INPUT PROD. FORECAST FOR MO.

TIME OPER. EFF. - MO-TO-DATE

TIME OPER. EFF. - 30 DAY AVG.

TIME OPER. EFF. FORECAST FOR MO.

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
										361.0

REMARKS:

C - Operating level restricted by overbore tube powers.

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- **ROUGH DRAFT**
AFTER FILL-IN

ROUGH DRAFT
AFTER FILL-IN

REACTOR OPERATIONS DAILY REPORT

DATE 3-20-65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	2015	2260	1865		2025	1960	4400	4400	10125	8800	18925
2. MAXIMUM POWER LEVEL - MW	2015	2260	1875		2025	1960	4400	4400	10135	8800	18935
3. INPUT PRODUCTION - MWD	2015	2260	1871		2025	1960	4400	4400	10131	8800	18931
4. OUTAGE HOURS	0	0	0		0	0	0	0			
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD									LINE 5 TOTALS IN KWWD'S		
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	6.3	6.3	6.2		7.7	7.2	5.6	5.0			
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	92.2	93.4	89.1		93.3	88.0	85.8	86.0			
8. REACTOR WATER FLOW RATE AT 2330- GPM ± 1000	88.5	100.2	86.0		90.2	93.2	207.5	205.5			
9. FACTOR LIMITING POWER LEVEL	T.A.I.	T.P. 1625	T.A.I.		B.O.	T.P. 1250	E.A.L.	E.A.L.			
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.	N.	N.		N.	N.	N.	N.			
11. ESTIMATED STARTUP TIME											
	DATE										
	HOUR										

INPUT PROD. FORECAST FOR MO.		
TIME OPER. EFF. - MO-TO-DATE		
TIME OPER. EFF. - 30 DAY AVG.		
TIME OPER. EFF. FORECAST FOR MO.		

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES	WATER LEAKS	SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.	COMPLETED	REMAINING		
REMARKS:								355.0

ROUGH DRAFT
AFTER FILL-IN

80

ROUGH DRAFT
AFTER FILL-IN

REACTOR OPERATIONS DAILY REPORT

DATE 3-21-65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	2015	2260	1870		2020	1965	4400	4400	10130	8800	18930
2. MAXIMUM POWER LEVEL - MW	2015	2260	1865		2025	1965	4400	4400	10130	8800	18930
3. INPUT PRODUCTION - MWD	2015	2260	1865		2023	1961	4400	4400	10124	8800	18924
4. OUTAGE HOURS	0	0	0		0	0	0	0	0	0	0
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	+700	-5738	+3532		+1315	-5141	-6217	+555	-5.3	-5.7	-11.0
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	6.3	6.6	6.7		8.5	8.0	5.7	5.0	LINE 5 TOTALS IN MWD'S		
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	92.2	93.7	89.7		93.9	89.5	86.0	86.2	INPUT PROD. FORECAST FOR MO.		
8. REACTOR WATER FLOW RATE AT 2330- GPM ± 1000	88.5	100.2	86.0		90.1	93.2	207.5	205.0	258.0	224.8	482.8
9. FACTOR LIMITING POWER LEVEL	T.A.I.	T.P.	T.A.I.		B.O.	T.P.	E.A.L.	E.A.L.	84.1	81.7	83.4
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.	N.	N.		N.	N.	N.	N.	80.5	77.5	79.6
11. ESTIMATED STARTUP TIME									85.8	86.3	85.9
									TIME OPER. EFF. - NO-TO-DATE		
									TIME OPER. EFF. - 30 DAY AVG.		
									TIME OPER. EFF. FORECAST FOR MO.		

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
	*3	1	1	4	6	3	3	1	1	361.0

REMARKS:

* One thoria failure not included.

ROUGH DRAFT
AFTER FILL-IN

ROUGH DRAFT

AFTER FILL-IN

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REACTOR OPERATIONS DAILY REPORT

DATE 3-22-65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	2015	2260	1875		2025	1965	4400	4400	10140	8800	18940
2. MAXIMUM POWER LEVEL - MW	2015	2260	1870		2020	1965	4400	4400	10130	8800	18930
3. INPUT PRODUCTION - MWD	2015	2260	1869		2019	1965	4400	4400	10128	8800	18928
4. OUTAGE HOURS	0	0	0		0	0	0	0	0	0	0
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	+1195	-5294	+3853		+1705	-4986	-5578	+1465	-3.5	-4.1	-7.6
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	5.6	5.8	5.7		7.1	6.8	5.2	4.8	LINE 5 TOTALS IN KWWD'S		
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	92.5	93.0	88.8		92.4	87.4	85.5	85.8	INPUT PROD. FORECAST FOR MO.		
8. REACTOR WATER FLOW RATE AT 2330- GPM $\div$ 1000	89.0	100.0	86.0		90.2	93.3	207.5	205.5	258.0	224.8	482.8
9. FACTOR LIMITING POWER LEVEL	T.A.I.	T.P.	T.A.I.		B.O.	T.P.	E.A.L.	E.A.L.	TIME OPER. EFF. - MO-TO-DATE		
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.	N.	N.		N.	N.	N.	N.	84.8	82.5	84.1
11. ESTIMATED STARTUP TIME									TIME OPER. EFF. - 30 DAY AVG.		
									81.2	78.0	80.3
									TIME OPER. EFF. FORECAST FOR MO.		
									85.8	86.3	85.9

12. COMBINED REACTORS MONTH-TO-DATE

NAT.	RUPTURES	WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
		ENR.	TUBE			COMPLETED	REMAINING		
*3	1		1	6	3	3	1	1	365.0

REMARKS:

*One thoria failure not included.

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ROUGH DRAFT

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REACTOR OPERATIONS DAILY REPORT

DATE 3-23-65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	2015	2260	1875		2025	1970	4400	4400	10145	8800	18945
2. MAXIMUM POWER LEVEL - MW	2015	2260	1875		2025	1970	4400	4400	10145	8800	18945
3. INPUT PRODUCTION - MWD	2015	2260	1874		2025	1968	4400	4400	10142	8800	18942
4. OUTAGE HOURS	0	0	0		0	0	0	0	0	0	0
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	+1691	-4850	+4179		+2101	-4828	-4940	+2375	-1.7	-2.6	-4.3
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	5.8	5.9	5.4		7.1	6.5	5.4	4.7	LINE 5 TOTALS IN KWWD'S		
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	92.3	93.0	89.0		92.7	87.8	85.6	85.7	INPUT PROD. FORECAST FOR MO.		
8. REACTOR WATER FLOW RATE AT 2330- GPM ± 1000	89.0	100.2	86.0		90.3	93.3	207.5	205.0	258.0	224.8	482.8
9. FACTOR LIMITING POWER LEVEL	T.A.I.	T.P.	T.A.I.		B.O.	T.P.	E.A.I.	E.A.I.	TIME OPER. EFF. - MO-TO-DATE		
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.	N.	N.		N.	N.	N.	N.	85.4	83.3	84.8
11. ESTIMATED STARTUP TIME									TIME OPER. EFF. - 30 DAY AVG.		
									81.8	78.0	80.7
									TIME OPER. EFF. FORECAST FOR MO.		
									85.8	86.3	85.9

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
	*3	1	1	4	6	3	3	1	1	365.0

REMARKS: *One thoria failure not included.

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ROUGH DRAFT

AFTER FILL-IN

ROUGH DRAFT
AFTER FILL-IN

REACTOR OPERATIONS DAILY REPORT

DATE 3/24/65

	9	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	2015	2260	0		2025	1975	4400	4400	8275	8800	17075
2. MAXIMUM POWER LEVEL - MW	2015	2260	1875		2025	1975	4400	4400	10150	8800	18950
3. INPUT PRODUCTION - MWD	2015	2260	1875		2025	1973	4400	4400	10148	8800	18948
4. OUTAGE HOURS	0	0	0		0	0	0	0	0	0	0
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	+2186	-4406	+4506		+2497	-4665	-4301	+3285	+0.2	-1.0	-0.8
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	5.6	5.8	5.3		7.1	6.7	5.1	4.7	LINE 5 TOTALS IN KWWD'S		
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	91.9	93.0	88.8		92.1	87.9	85.4	85.7	INPUT PROD. FORECAST -JR MO.		
8. REACTOR WATER FLOW RATE AT 2330- GPM ÷ 1000	88.9	100.1	86.0		90.3	93.1	207.5	205.5	258.0	224.8	482.8
9. FACTOR LIMITING POWER LEVEL	T.A.I.	T.P.	T.A.I.		B.O.	T.P.	E.A.L.	E.A.L.	TIME OPER. EFF. - MO-TO-DATE		
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.	N.	N.		N.	N.	N.	N.	86.0	84.0	85.5
11. ESTIMATED STARTUP TIME			3-26-65 1015						82.6	78.0	81.3
									TIME OPER. EFF. FORECAST FOR MO.		
									85.8	86.3	85.9

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
	*3	1	1	4	7	3	3	1	1	367.0

REMARKS: 25/65 (12-8) *One thoria failure not included.

I - Reactor manually scrambled at 0015 hours when a temperature map indicated the temperature of tube 3070 to be about the TAI limits. Investigation revealed a faulty thermocouple on this tube. A small charge-discharge and leak testing will be completed.

The D Reactor outage concluded 9.3 days of continuous operation for all reactors. This represents a new record exceeding the previous record established in February, 1959 by 0.4 days.

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ROUGH DRAFT
AFTER FILL-IN

- ROUGH DRAFT
AFTER FILL-IN

REACTOR OPERATIONS DAILY REPORT

DATE 3-25-65

This document classified by

Ray P. Smith

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	0	0	0		2025	1975	4400	4400	4000	8800	12800
2. MAXIMUM POWER LEVEL - MW	2015	2260	1875		2025	1975	4400	4400	10150	8800	18950
3. INPUT PRODUCTION - MWD	1572	1310	20		2025	1975	4400	4400	6902	8800	15702
4. OUTAGE HOURS	5.3	10.0	23.7		0	0	0	0	39.0	0	39.0
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	+2239	-4912	+2978		+2893	-4500	-3655	+4195	-1.3	+0.6	-0.7
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	7.6	5.6	6.2		6.9	6.3	5.1	4.6	LINE 5 TOTALS IN KWWD'S		
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	20.0	14.8			92.9	83.9	85.4	85.7	258.0	224.8	482.8
8. REACTOR WATER FLOW RATE AT 2330- GPM ± 1000	29.8	5.3	7.1		90.3	93.1	207.5	205.0	85.3	84.6	85.1
9. FACTOR LIMITING POWER LEVEL					B.O.	T.P.	E.A.L.	E.A.L.	82.9	79.7	82.0
10. DAILY ABNORMAL WATER COLLECTION - GALS.					N.	N.	N.	N.	TIME OPER. EFF. - 30 DAY AVG.		
11. ESTIMATED STARTUP TIME	3-28-65 0800	3-28-65 0800	3-26-65 0830						85.8	86.3	85.9

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
	21	2	1	6	7	3	4	0	1	333.0

REMARKS: * Two thoria failures not included.
B - Scrammed at 1845 hours by a high pressure Panellit trip due to an I&E enriched metal rupture in tube 3988. The rupture was discharged with less than 4500 lbs. force. Charge-discharge scheduled for 3/30/65 is in progress.
C - Reactor shut down at 1400 hrs. for the removal of a stuck thoria rupture from tube 0172. The charge did not move with 1100 lbs. pressure and the removal of downstream pieces is in progress.
D - Manually scrambled at 0015 hrs. when a temperature map indicated a temperature in tube 2070 above the TAI limits. Investigation revealed

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AFTER FILL-IN

- ROUGH DRAFT

AFTER FILL-IN

REACTOR OPERATIONS DAILY REPORT

DATE 3/26/65

This document classified by

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	0	1835	1575		2035	1975	4400	4400	7420	8800	16220
2. MAXIMUM POWER LEVEL - MW	0	0	1450		2030	1975	4400	4400	5455	8800	14255
3. INPUT PRODUCTION - MWD	0	0	581		2028	1975	4400	4400	4584	8800	13384
4. OUTAGE HOURS	24.0	24.0	9.2		0	0	0	0	57.2	0	57.2
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD									LINE 5 TOTALS IN KWWD'S		
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	9.5	5.9	4.9		6.5	5.8	5.0	4.4	INPUT PROD. FORECAST FOR MO.		
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	17.1	11.0	66.2		92.4	87.2	85.2	85.5	TIME OPER. EFF. - MO-TO-DATE		
8. REACTOR WATER FLOW RATE AT 2330- GPM $\pm$ 1000	13.5	5.5	85.5		90.2	93.0	207.0	205.0	TIME OPER. EFF. - 30 DAY AVG.		
9. FACTOR LIMITING POW. R LEVEL			N.E.		B.O.	T.P. 1300	E.A.L.	E.A.L.	TIME OPER. EFF. FORECAST FOR MO.		
10. DAILY ABNORMAL WATER COLLECTION - GAL'S.					N.	N.	N.	N.			
11. ESTIMATED STARTUP TIME	DATE										
	HOOR										
12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES	OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS		
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING			
									313.0		

REMARKS:

B - Reactor continuing down following rupture removal to complete scheduled charge-discharge.

C - The stuck thoria rupture was removed from tube 0172 and the tube was re-charged with thoria. Attempts to remove zirconium tube 3679 were unsuccessful using pressures up to 8,000 lbs. The tube was re-Van Stoned and charged with dummies pending removal during a later outage.

D - Resumed operation at 0805 hours concluding an outage caused by a faulty thermocouple. The reactor was down from 0942 hrs. to 1020 hrs. and from 1133 hrs. to 1205 hrs. because of unexplained Panellit trips.

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ROUGH DRAFT
AFTER FILL-IN

REACTOR OPERATIONS DAILY REPORT

DATE 3/27/65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1500	2120	1815		2035	1975	4400	4400	9435	8800	18235
2. MAXIMUM POWER LEVEL - MW	0	2000	1775		2035	1975	4400	4400	7785	8800	16585
3. INPUT PRODUCTION - MWD	0	1419	1626		2034	1975	4400	4400	7054	8800	15854
4. OUTAGE HOURS	24.0	5.5	0		0	0	0	0	29.5	0	29.5
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD									LINE 5 TOTALS IN KWWD'S		
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	8.4	6.3	5.5		7.6	6.9	5.4	4.8			
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	14.0	83.2	83.8		93.7	88.3	85.6	85.8			
8. REACTOR WATER FLOW RATE AT 2330- GPM $\pm$ 1000	26.5	99.7	86.0		90.3	93.0	207.0	205.0			
9. FACTOR LIMITING POWER LEVEL		N.E.	N.E.		B.O.	1300	E.A.L.	E.A.L.			
10. DAILY ABNORMAL WATER COLLECTION - GALS.		18	35		N.	N.	N.	N.			
11. ESTIMATED STARTUP TIME											
	DATE										
	HOUR										

INPUT PROD. FORECAST FOR MD.

TIME OPER. EFF. - MD-TO-DATE

TIME OPER. EFF. - 30 DAY AVG.

TIME OPER. EFF. FORECAST FOR MD.

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
										348.0

REMARKS:

- B - Reactor continued down for scheduled charge-discharge and maintenance.
C - Resumed operation at 0530 hrs. concluding an outage for the removal of a stuck thoria rupture.

ROUGH DRAFT
AFTER FILL-IN

ROUGH DRAFT
AFTER FILL-IN

REACTOR OPERATIONS DAILY REPORT

DATE: 3/28/65

[illegible]

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	MAT	ENR.	TUBE	V. S.			COMPLETED	REMAINING		
		2								
	21/10/82		1	6	10	5	4	0	1	357.0
	*3	2								

REMARKS:	* Two thorja failures not included.
----------	-------------------------------------

B - Resumed operation at 0433 hrs. concluding an outage for rupture removal and scheduled charge-discharge.

3/29/65 (12-8)

KW - Reactor scrambled at 0350 hrs. by an unexplained Panellit trip on tube 4265. A small charge-discharge will be completed and two zirconium tubes will be replaced.

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REACTOR OPERATIONS DAILY REPORT

DATE 3/29/65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1940	2260	1850		0	1975	4400	0	8025	4400	12425
2. MAXIMUM POWER LEVEL - MW	1950	2260	1845		2035	1975	4400	4400	10065	8800	18865
3. INPUT PRODUCTION - MWD	1933	2241	1839		1222	1975	4400	703	9210	5103	14313
4. OUTAGE HOURS	0	0	0		9.8	0	0	20.2	9.8	20.2	30.0
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	-704	-6381	+2650		+3696	-3840	-1107	+4447	-4.5	+3.0	-1.5
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	5.8	5.8	5.2		8.3	6.5	5.4	6.5	LINE 8 TOTALS IN MWWD'S		
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	88.8	93.0	87.5		9.4	88.1	85.6	CU	258.0	224.8	482.8
8. REACTOR WATER FLOW RATE AT 2330- GPM ± 1000	88.5	99.9	86.0		67.1	93.0	207.0	14.0	84.4	85.3	84.7
9. FACTOR LIMITING POWER LEVEL	NE	NE	TAI			TP	EAL		84.4	85.0	84.6
10. DAILY ABNORMAL WATER COLLECTION - GALS.	17	N	39		82	N	N	3-30-65	TIME OPER. EFF. - 30 DAY AVG.		
11. ESTIMATED STARTUP TIME					3-31-65			1800	85.8	86.3	85.9

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURE		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
	*3	2	2	6	10	5	4	0	1	300.0

REMARKS:

F - Reactor scrambled at 1410 hours by a Panellit trip caused by a leak in tube 1273. Replacement of the tube is in progress. Reactor leak testing will also be completed.

KW - Reactor scrambled at 0350 hours by an unexplained Panellit trip on thoria tube 4265. Two zirconium tubes were successfully removed and new zirconium tubes are being installed. Also completed a small charge-discharge.

*Two thoria failures not included.

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W. J. P. P. P. P.

ROUGH DRAFT

AFTER FILL-IN

REACTOR OPERATIONS DAILY REPORT

DATE 3/30/65

RESTRICTED DATA

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	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1940	2285	1870		0	1975	4400	3000	8070	7400	15470
2. MAXIMUM POWER LEVEL - MW	1940	2275	1865		0	1975	4400	2	8055	4402	12457
3. INPUT PRODUCTION - MWD	1940	2263	1855		0	1975	4400	0	8033	4400	12433
4. OUTAGE HOURS	0	0	0		24.0	0	0	21.8	24.0	21.8	45.8
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	-283	-5936	+2957		+2067	-3675	-469	+648	-4.9	+0.2	-4.7
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	6.3	6.5	5.7		7.6	6.8	5.8	5.1	LINE 5 TOTALS IN KWWD'S		
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	89.2	94.0	88.6		9.0	88.2	86.0	6.1	INPUT PROG. FORECAST FOR MO.		
8. REACTOR WATER FLOW RATE AT 2330- GPM ± 1000	89.0	99.7	86.0		83.3	93.0	207.0	188.0	258.0	224.8	482.8
9. FACTOR LIMITING POWER LEVEL	N. E.	T.P. 1625	T.A.I.			T.P. 1300	E.A.L.	N.E.	84.3	84.3	84.3
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.	N.				N.	N.	N.	84.3	84.3	84.3
11. ESTIMATED STARTUP TIME					3-31-65 0930				85.8	86.3	85.9
	DATE								TIME OPER. EFF. - MO-TO-DATE		
	STARTUP TIME								TIME OPER. EFF. - 30 DAY AVG.		
									TIME OPER. EFF. FORECAST FOR MO.		

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
	*3	2	2	6	12	5	4	0	1	361.0

REMARKS: * Four thoria failures not included.

FW - Reactor continued down following a Panellit trip caused by a tube leak. Leaking tube 1273 was replaced and graphite samples were discharged and re-charged in two channels.

FW - Resumed operation at 2148 hrs. The Panellit trip which caused this outage resulted from a failed thoria element in tube 4265. During the outage a failed thoria element was also discharged from tube 1843.

3/31/65 (12-8)

FW - Resumed operation at 0530 hrs. Reactor scrambled by a Panellit trip at 0728 hrs. while inserting a spline.

FW - Reactor scrambled at 0127 hrs. by a Panellit trip caused by a ground in the Panellit system. Operation resumed at 0159 hrs.

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ROUGH DRAFT

AFTER FILL-IN

FORM 5000-102 (7-64) 42-58 RICHARD WASH

RESTRICTED DATA

- RUSH DRAFT

AFTER FILL-IN

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REACTOR OPERATIONS DAILY REPORT

DATE 3/31/65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1950	2285	1865		1325	1975	0	3700	9400	3700	13100
2. MAXIMUM POWER LEVEL - MW	1950	2285	1870		1275	1975	4400	3500	9355	7900	17255
3. INPUT PRODUCTION - MWD	1945	2284	1868		613	1975	3697	2816	8685	6513	15198
4. OUTAGE HOURS	0	0	0		8.2	0	3.7	0.5	8.2	4.2	12.4
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	+144	-5468	+3265		+1050	-3510	-533	-36	-4.5	-0.6	-5.1
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	6.6	6.7	6.2		7.8	7.4	6.3	5.3	LINE 8 TOTALS IN KW/D'S		
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	89.9	94.8	89.2		61.3	88.8	10.5	69.2	INPUT PROD. FORECAST FOR MO.		
8. REACTOR WATER FLOW RATE AT 2330- GPM $\pm$ 1000	89.1	99.8	86.0		89.4	93.1	64.0	204.5	258.0	224.8	482.8
9. FACTOR LIMITING POWER LEVEL	T.A.I.	B.O.	T.A.I.		N.E.	T.P.		N.E.	TIME OPER. EFF. - MO-TO-DATE		
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.	N.	18		20	N.	48	N.	84.6	84.5	84.6
11. ESTIMATED STARTUP TIME							4-3-65		84.1	86.4	84.8
							1200		TIME OPER. EFF. FORECAST FOR MO.		
									85.8	86.3	85.9

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
	#3	2	2	6	11	6	4	0	2	361.0

REMARKS:

* Four thoria failures not included. *See log.*

F - Resumed operation at 0530 hrs. concluding a water leak outage. Reactor scrambled at 0728 hrs. by an unexplained Panellit trip while inserting a spline in tube 1382. Resumed operation at 1008 hrs.

KE - Reactor shut down at 2020 hrs. to investigate abnormal pressure in thoria tube 5885. Initial attempts to discharge the tube using 1100 lbs. pressure were unsuccessful. About one-half of the charge-discharge scheduled for 4/10/65 will be completed.

KW - Reactor scrambled at 0127 hrs. by a Panellit trip caused by a ground in the Panellit system. Operation was resumed at 0159 hrs.

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- RUSH DRAFT

AFTER FILL-IN

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REACTOR OPERATIONS DAILY REPORT

DATE 4-1-65

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1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1965	2285	0		1625	1975	0	0	7850	0	7850
2. MAXIMUM POWER LEVEL - MW	1965	2285	1865		1575	1975	0	3700	9665	3700	13365
3. INPUT PRODUCTION - MWD	1955	2285	1166		1423	1975	0	2027	8804	2027	10831
4. OUTAGE HOURS	0	0	9.0		0	0	24.0	10.7	9.0	34.7	43.7
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	+455	+542	-271		-164	+169	-3310	-1453	+0.7	-4.7	-4.0
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	6.5	6.5	7.0		7.3	6.7	7.7	7.0	INPUT PROD.FORECAST FOR MO.		
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	90.5	94.5	15.0		73.8	88.3	C.U.	C.U.	216.9	203.7	420.6
8. REACTOR WATER FLOW RATE AT 2330- GPM ÷ 1000	89.1	99.9	5.8		89.7	93.1	18.8	14.0	92.5	27.7	74.0
9. FACTOR LIMITING POWER LEVEL	T.A.T.	B.O.			N.E.	T.P.			TIME OPER. EFF. - 30 DAY AVG.		
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.	N.			'fl	N.			84.5	87.3	85.3
11. ESTIMATED STARTUP TIME									TIME OPER. EFF. FORECAST FOR MO.		
DATE			4-3-65				4-3-65	4-3-65	86.0	80.8	84.5
HOUR			2300				0400	1600			

REMARKS:

REMARKS:
D - Receptor screened at 1459 hrs. by a Panellit trip when the spline cap insert seal on tube 3864 failed. Scheduled charge-discharge including core thorja scheduled for 4/7/65 will be completed.

CE - Scheduled charge-discharge was cancelled due to the KW outage after processing about 150 tubes. The removal of one zirconium tube is in progress. The tube stuck after pushing about seven feet and the removal of the rear gun barrel is in progress. No further attempts have been made to remove the stuck thorium charge from tube 5885.

FW - Reactor scrammed at 1319 hrs. by an unexplained Panellit trip on test hole tube 0065. Scheduled charge-discharge including core thoris planned for 4/4/65 will be completed.

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- ROUGH DRAFT
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REACTOR OPERATIONS DAILY REPORT

DATE 4/2/65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1.60	2235	0		1830	1975	0	0	8050	0	8050
2. MAXIMUM POWER LEVEL - MW	1.70	2285	0		1770	1975	0	0	8000	0	8000
3. INPLT PRODUCTION - MWD	1.70	2285	0		1684	1975	0	0	7914	0	7914
4. OUTAGE HOURS	0	0	24.0		0	0	24.0	24.0	24.0	48.0	72.0
5. INPUT PRODUCTION VARIANCE FROM FORECAST-W-T-D - MWD									LINE 5 TOTALS IN KWWD'S		
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	6.6	6.8	7.0		7.1	6.9	6.2	7.0	INPUT PROD. FORECAST FOR MO.		
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	90.8	95.0	12.5		82.1	88.3	8.4	C.U.	TIME OPER. EFF. - MO-TO-DATE		
8. REACTOR WATER FLOW RATE AT 2330- GPM $\pm$ 1000	89.1	99.5	5.8		89.8	93.0	189.0	14.0	TIME OPER. EFF. - 30 DAY AVG.		
9. FACTOR LIMITING POWER LEVEL	T.A.I.	B.O.			N.E.	1300			TIME OPER. EFF. FORECAST FOR MO.		
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.	N.			78	N.					
11. ESTIMATED STARTUP TIME	DATE										
	HOUR										

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
										270.0

REMARKS:

D - Reactor continuing down for scheduled charge-discharge. The charging of thorium was completed.

KE - The stuck zirconium tube was removed from channel 2169 and the channel was left empty. The stuck thorium failure was removed from channel 5885 by pushing tube and charge. A new tube was installed in the channel.

KW - The unexplained Panellit trip on test hole 0065 was caused by foreign material on the orifice screen. Scheduled charge-discharge is in progress. Also removed HCRs 6, 7, 8 and 9 for stuck plug repair.

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- ROUGH DRAFT
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REACTOR OPERATIONS DAILY REPORT

DATE 4/3/65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1960	2265	0		1960	1975	3900	0	8160	3900	12060
2. MAXIMUM POWER LEVEL - MW	1965	2285	0		1950	1975	3580	0	8175	3580	11755
3. INPUT PRODUCTION - MWD	1961	2279	0		1867	1975	1620	0	8082	1620	9702
4. OUTAGE HOURS	0	0	24.0		0	0	10.0	24.0	24.0	34.0	58.0
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD									LINE 5 TOTALS IN KMWDS		
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	7.3	7.7	7.0		8.0	7.7	6.7	7.5	INPUT PROD. FORECAST FOR MO.		
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	91.0	94.9	10.5		90.5	89.1	70.8	C.U.	TIME OPER. EFF. - MO-TO-DATE		
8. REACTOR WATER FLOW RATE AT 2330- GPM ± 1000	89.2	99.5	6.2		89.8	93.2	206.0	14.0	TIME OPER. EFF. - 30 DAY AVG.		
9. FACTOR LIMITING POWER LEVEL	T.A.I.	B.O.			N.E.	T.P.	N.E.		TIME OPER. EFF. FORECAST FOR MO.		
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.	N.			72	N.	N.				
11. ESTIMATED STARTUP TIME											
	DATE										
	HOUR										

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
		/								275.0

REMARKS:

D - Completed the charge-discharge of enriched metal. The repair of omega seal leaks is in progress.
 KE - Resumed operation at 0312 hrs. concluding an outage for the removal of thorium failure and charge-discharge.
 Reactor scrambled at 0554 hrs. for the removal of an I&E enriched failure from tube 3263. The failure was removed with the charging machine and operation was resumed at 1242 hrs.
 KW - Reactor continuing down for scheduled charge-discharge.

ROUGH DRAFT
AFTER FILL-IN

ROUGH DRAFT

AFTER FILL-IN

REACTOR OPERATIONS DAILY REPORT

DATE 4/4/65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1955	2255	0		1970	0	4360	0	6180	4360	10540
2. MAXIMUM POWER LEVEL - MW	1960	2265	0		1970	1975	4250	0	8170	4250	12420
3. INPUT PRODUCTION - MWD	1960	2264	0		1959	923	4004	0	7106	4004	11110
4. OUTAGE HOURS	0	0	24.0		0	12.8	0	24.0	36.8	24.0	60.8
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	+1846	+2140	-4578		+585	+1195	-7616	-11893	47.7	24.0	60.8
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	7.8	8.1	7.8		8.5	10.0	7.0	7.9	216.9	203.7	420.6
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	91.6	95.0	10.3		92.1	20.4	84.3	C.U.	80.5	26.7	65.1
8. REACTOR WATER FLOW RATE AT 2330- GPM ± 1000	88.8	99.5	5.8		89.6	29.8	206.5	14.0	85.8	87.0	86.1
9. FACTOR LIMITING POWER LEVEL	T.A.I.	B.O.			N.E.		N.E.		186.0	80.8	84.5
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.	N.			52						
11. ESTIMATED STARTUP TIME			4-5-65 2400			4-5-65 2000					

LINE 5 TOTALS IN KWHRS

-19.9

-18.3

-18.7

-18.7

-18.7

-18.7

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12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAPS		RECOVERIES		SCHEDULED OUTAGES		OTHER OUTAGES		DAILY PEAK ELECT. DEMAND - MEGAWATTS	
	NAT.	EMR.	TUBE	V.S.					COMPLETED	REMAINING				
	22	1	0	0	2	0	0	0	2	4	0	0	270.0	

REMARKS:

D - Completed the repair on six omega seals. Repaired a crossover leak and started work on thermocouple replacement.

H - Reactor scrammed at 1113 hrs. by a Panellit trip caused by an I&E natural metal failure on tube 2886. The rupture was removed using 6000 lbs. pressure.

KW - Reactor continuing down for scheduled charge-discharge.

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ROUGH DRAFT

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REACTOR OPERATIONS DAILY REPORT

DATE 4/5/65

STARTUP TIME	MOON	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
		NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
12. COMBINED REACTORS MONTH-TO-DATE		1	1	0	0	2	0	2	4	0	299.0

REMARKS:

REMARKS:
D - Resumed operation at 2225 hours concluding scheduled work during an outage initiated by a Panellit trip.
U - Resumed operation at 1915 hours concluding a rupture outage.

H - Resumed operation at 1915 hours concluding a rupture outage.

KW - Completed scheduled charge-discharge; RTD work is in progress.

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REACTOR OPERATIONS DAILY REPORT

DATE 4/6/65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1960	2270	0		2010	1735	4400	3500	7975	7900	15875
2. MAXIMUM POWER LEVEL - MW	1955	2270	1620		2000	1730	4400	500	9575	4900	14475
3. INPUT PRODUCTION - MWD	1955	2269	775		1992	1522	4400	17	8513	4417	12930
4. OUTAGE HOURS	0	0	10.2		0	0	0	21.1	10.2	21.1	31.3
5. INPUT PRODUCTION VARIANCE FROM FORECAST-N-T-D - MWD	+2756	+3177	-6674		+1373	-2288	-5470	-18836	-1.6	-24.3	-25.9
6. REACTOR INLET WATER TEMPERATURE AT 2330-C	7.1	7.2	8.0		8.2	7.9	6.4	6.0	INPUT PROD. FORECAST FOR MO.		
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	90.7	94.9	12.0		93.1	78.9	87.0	16.0	216.9	203.7	420.6
8. REACTOR WATER FLOW RATE AT 2330- GPM + 1000	88.9	99.6	6.5		90.0	93.0	206.5	195.0	79.8	35.5	67.1
9. FACTOR LIMITING POWER LEVEL	T.A.I.	B.O.			B.O.	N.E.	E.A.L.	N.E.	TIME OPER. EFF. - 3G DAY AVG.		
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.	N.			61	N.	N.		85.7	83.9	85.2
11. ESTIMATED STARTUP TIME									86.0	80.8	84.5
DATE			4-7-65								
HOUR			1400								

	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	MAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
12. COMBINED REACTORS MONTH-TO-DATE	1	1	0	0	2	0	2	4	0	355.0

REMARKS:
D - Reactor shut down at 1349 hours due to a heat cycle which caused enriched tube temperatures in the upper section of the reactor to exceed TAI limits.
KW - Resumed operation at 2104 hours concluding a scheduled outage initiated by a Panellit trip caused by foreign material on the orifice screen of test hole 0065.

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ROUGH DRAFT

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AFTER FILL-IN

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REACTOR OPERATIONS DAILY REPORT

DATE 4-7-65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1960	2270	1400		2010	1750	4400	3800	9390	8200	17590
2. MAXIMUM POWER LEVEL - MW	1960	2270	1200		2010	1750	4400	3655	9190	8055	17245
3. INPUT PRODUCTION - MWD	1959	2270	333		2008	1745	4400	3366	8315	7766	16081
4. OUTAGE HOURS	0	0	15.4		0	0	0	0	15.4	0	15.4
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	+3215	+3704	-7777		+1794	-2359	-4389	-18950	-1.4	-23.3	-24.7
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	7.3	7.3	7.1		8.5	8.0	6.6	6.2			
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	91.3	94.8	57.8		93.8	80.0	87.2	73.3			
8. REACTOR WATER FLOW RATE AT 2330- GPM $\pm$ 1000	88.9	99.0	85.5		89.6	93.1	207.0	206.0			
9. FACTOR LIMITING POWER LEVEL	T.A.I.	B.O.	N.E.		B.O.	N.E.	E.A.L.	N.E.			
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.	N.	N.		52	N.	N.	N.			
11. ESTIMATED STARTUP TIME											
INPUT PROD. FORECAST FOR MO.											
216.9 203.7 420.6											
TIME OPER. EFF. - MO-TO-DATE											
80.8 44.7 70.5											
TIME OPER. EFF. - 30 DAY AVG.											
87.2 83.9 86.2											
TIME OPER. EFF. FORECAST FOR MO.											
86.0 80.8 84.5											

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
	1	1	0	0	2	0	2	4	1	363.0

REMARKS:

D Reactor resumed operation at 1523 hours concluding an outage caused by a heat cycle.

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REACTOR OPERATIONS DAILY REPORT

DATE 4-8-75

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E. P. Fendrich

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	MAT.	EGR.	TUBE	V.S.			COMPLETED	REMAINING		
	27/10/80	1	2	0	0	0	3	3	1	364.0

F - Reactor shut down at 1230 hours due to a water leak. Charge-discharge is in progress.

- Reactor scrambled by a Panellit trip at 2318 hours due to an enriched rupture in tube 3451. An enriched rupture in tube 3451.

metal rupture also suspected in tube 3280? Not confirmed.

49/65 (12-8)

KE - Reactor shut down at 0024 hours by scheduled charge-discharge including thorium.

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by *Chang P. Park*

REACTOR OPERATIONS DAILY REPORT

DATE 4-9-65

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	B		C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
	1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1960	2250	1825		1000	1750	0	0	8785	0	8785
2. MAXIMUM POWER LEVEL - MW	1960	2250	1835			0	1750	4400	0	7795	4400	12195
3. INPUT PRODUCTION - MWD	1960	2250	1793			0	1750	44	0	7753	44	7797
4. OUTAGE HOURS	0	0	0	0		24.0	0	23.6	24.0	24.0	47.6	71.6
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD										LINE 5 TOTALS IN KWWD'S		
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	7.3	7.3	7.1			10.2	7.5	8.9	7.3	INPUT PROD. FORECAST FOR MO.		
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	91.3	94.7	88.3			13.2	79.6	C.U.	C.U.	TIME OPER. EFF. - MO-TO-DATE		
8. REACTOR WATER FLOW RATE AT 2330- GPM $\pm$ 1000	88.7	98.4	86.0			7.2	93.1	16.3	17.5	TIME OPER. EFF. - 30 DAY A.V.		
9. FACTOR LIMITING POWER LEVEL	T.A.I.	B.O.	T.A.I.				T.P.			TIME OPER. EFF. FORECAST FOR MO.		
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.	N.	62			48	N.					
11. ESTIMATED STARTUP TIME	DATE											
	HOUR											

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS	
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING			
										228.0	

REMARKS:

1. Reactor continuing down on an outage initiated due to a water leak. The charge-discharge of enriched metal was completed and tube 4168 was replaced because of an internal leak.
2. Reactor shut down at 0624 hours for scheduled charge-discharge including thorium.
3. Reactor continuing down on a rupture outage and an enriched rupture was removed from tube 3451. The suspected rupture in tube 3280 was not confirmed.

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AFTER FILL-IN

REACTOR OPERATIONS DAILY REPORT

DATE 4/10/65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1950	2240	1825		1700	1750	0	3500	9465	3500	12965
2. MAXIMUM POWER LEVEL - MW	1960	2250	1835		1625	1750	0	3000	9420	3000	12420
3. INPUT PRODUCTION - MWD	1959	2246	1826		968	1750	0	579	8749	579	9328
4. OUTAGE HOURS	0	0	0		5.0	0	24.0	17.9	5.0	41.9	46.9
5. INPUT PRODUCTION VARIANCE FROM FORECAST-N-T-D - MWD									LINE 5 TOTALS IN KWWD'S		
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	7.8	7.9	7.6		8.7	8.0	9.2	6.7	INPUT PROD. FORECAST FOR MO.		
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	91.5	94.8	88.6		77.1	80.0	C.U.	63.0	TIME OPER. EFF. - MO-TO-DATE		
8. REACTOR WATER FLOW RATE AT 2330- GPM ÷ 1000	88.9	98.5	86.1		90.1	93.4	15.4	205.5	TIME OPER. EFF. - 30 DAY AVG.		
9. FACTOR LIMITING POWER LEVEL	T.A.I.	B.O.	T.A.I.		N.E.	T.P.		N.E.	TIME OPER. EFF. FORECAST FOR MO.		
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.	N.	41		47	N.					
11. ESTIMATED STARTUP TIME											

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
										298.0

REMARKS:

- P - Resumed operation at 0500 hours concluding a water leak outage.
KE - Continuing down for scheduled charge-discharge.
KW - Resumed operation at 1751 hours concluding a rupture outage. Also completed HCR calibration tests.

ROUGH DRAFT
AFTER FILL-IN

JGH DRAFT

AFTER FILL-IN

REACTOR OPERATIONS DAILY REPORT

DATE 4/11/65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1950	0	1825		1925	1750	0	4145	7450	4145	11595
2. MAXIMUM POWER LEVEL - MW	1950	2240	1825		1850	1750	0	4005	9615	4005	13620
3. INPUT PRODUCTION - MWD	1950	2235	1825		1740	1750	0	3615	9500	3615	13115
4. OUTAGE HOURS	0	0	0		0	0	24.0	0	0	24.0	24.0
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	+5044	+5711	-6602		-820	-2573	-13176	-24882	+0.8	-38.0	-37.2
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	8.4	8.8	9.0		10.0	9.5	9.8	7.2	LINE 5 TOTALS IN KMWDS INPUT PROD. FORECAST FOR MO.		
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	92.1	94.9	89.9		88.2	81.2	C.U.	80.5	216.9	203.7	420.6
8. REACTOR WATER FLOW RATE AT 2330- GPM $\pm$ 1000	88.8	98.3	86.0		90.1	93.2	15.8	206.0	84.8	44.0	73.1
9. FACTOR LIMITING POWER LEVEL	T.A.I.	B.O.	T.A.I.		N.E.	T.P.	N.E.		TIME OPER. EFF. - 30 DAY AVG.		
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.	N.	34		38	N.			88.6	76.3	85.1
11. ESTIMATED STARTUP TIME		4-15-64					4-13-65		TIME OPER. EFF. FORECAST FOR MO.		
		0400					2200		86.0	80.8	84.5

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
	1	2	1	0	2	0	4	2	1	300.0

REMARKS:

KE - Continuing down for scheduled charge-discharge.

4/12/65 (12-8)

C - Reactor shut down at 0800 hours for scheduled charge-discharge.

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AFTER FILL-IN

REACTOR OPERATIONS DAILY REPORT

GATE 4/12/65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1950	0	1825		1965	0	0	4400	5740	4400	10140
2. MAXIMUM POWER LEVEL - MW	1950	2220	1825		1955	1750	0	4280	9700	4280	13980
3. INPUT PRODUCTION - MWD	1950	735	1825		1923	1750	0	4163	8183	4163	12346
4. OUTAGE HOURS	0	16.0	0		0	0	24.0	0	16.0	24.0	40.0
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	+5494	+4703	-6214		-484	-2629	-16486	-24139	+0.8	-40.6	-39.8
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	8.7	8.6	8.4		9.5	9.0	9.1	7.1	INPUT PROD. FORECAST FOR MO.		
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	92.2	16.0	89.2		92.0	80.6	C.U.	85.6	216.9	203.7	420.6
8. REACTOR WATER FLOW RATE AT 2330- GPM ± 1000	88.9	5.4	86.0		89.6	93.2	16.0	206.0	84.9	43.8	73.1
9. FACTOR LIMITING POWER LEVEL	T.A.I.		T.A.I.		N.E.	T.P.		N.E.	TIME OPER. EFF. - 30 DAY AVS.		
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.	10	28		51	N.		N.	88.1	74.3	84.2
11. ESTIMATED STARTUP TIME		4-15-65				4-14-65	4-13-65		TIME OPER. EFF. FORECAST FOR MO.		
		0400				1200	2200		86.0	80.8	84.5

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
1	2		1	0	3 4	0	4	2	1 0	300.0

REMARKS:

... reactor shut down at 0800 hours for scheduled charge-discharge. The charge-discharge of E metal was completed and the tubes O168 and O173 were discharged for inspection of the thoris elements. Also installed a zirconium tube in the reactor for scheduled work. Charge-discharge is in progress. Also installed a zirconium tube in channel 4372.

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... of ... at 0451 hours due to an empty cylinder.

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SECRET

and from which integration
is the easiest

- ROUGH DRAFT

BM-5000-052 (7-64) AEC-GE NICKLARD WASH

ROUGH DRAFT
AFTER FILL-IN

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REACTOR OPERATIONS DAILY REPORT

DATE 4-13-65

Clay Finkel

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1950	0	1825		1975	0	0	4400	5750	4400	10150
2. MAXIMUM POWER LEVEL - MW	1950	0	1825		1965	1750	0	4400	7490	4400	11890
3. INPUT PRODUCTION - MWD	1950	0	1825		1964	354	0	4379	6093	4379	10472
4. OUTAGE HOURS	0	24.0	0		0	19.1	24.0	0	43.1	24.0	67.1
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	+5944	+2960	-5826		-107	-4081	-19796	-23240	-1.1	-43.1	-44.2
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	9.0	10.0	8.5		9.7	10.8	10.0	7.5			
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	92.6	13.1	89.5		92.8	23.0	C.U.	88.2			
8. REACTOR WATER FLOW RATE AT 2330- GPM ÷ 1000	88.9	5.2	86.0		89.9	29.9	15.7	206.0			
9. FACTOR LIMITING POWER LEVEL	T.A.I.		T.A.I.		B.O.			E.A.I.			
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.		21		20			N.			
11. ESTIMATED STARTUP TIME		4-14-65 2400				4-14-65 1200	1000				
LINE 5 TOTALS IN KWWD'S											
INPUT PROD. FORECAST FOR MO.											
TIME OPER. EFF. - MO-TO-DATE											
TIME OPER. EFF. - 30 DAY AVG.											
TIME OPER. EFF. FORECAST FOR MO.											
DAILY PEAK ELECT. DEMAND - MEGAWATTS											
OTHER OUTAGES											
MONTH-TO-DATE											
312.0											

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
	1	2	1	0	3	0	4	2	1	312.0

REMARKS:
C - Reactor continuing down on scheduled outage. Zirconium tube 3679 was split and removed and a ribbed aluminum tube was installed in the channel. Charge-discharge is continuing.
H - Reactor shut down at 0451 hours due to a heat cycle. The installation of shutdown instrumentation as authorized by PF 754 is in progress.
E - Reactor continuing down for scheduled work. RTD repair and design change work is in progress.

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ROUGH DRAFT

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REACTOR OPERATIONS DAILY REPORT

DATE 4/14/65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1950	0	1825		0	1460	3870	4400	5235	8270	13505
2. MAXIMUM POWER LEVEL - MW	1950	0	1825		1975	1305	3500	4400	7055	7900	14955
3. INPUT PRODUCTION - MWD	1950	0	1825		1975	633	434	4400	6383	4834	11217
4. OUTAGE HOURS	0	24.0	0		0	10.0	18.8	0	34.0	18.8	52.8
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	+6394	+1217	-5438		+281	-5254	-22672	-22330	-2.8	-45.0	-47.8
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	9.1	9.5	9.0		10.0	9.7	8.1	7.7	LINE 5 TOTALS IN KWWD'S		
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	92.8	10.9	89.7		93.5	63.7	72.0	88.4	INPUT PROD. FORECAST FOR MO.		
8. REACTOR WATER FLOW RATE AT 2330- GPM ± 1000	88.9	41.3	86.0		90.1	93.0	204.5	206.5	216.9	203.7	420.6
9. FACTOR LIMITING POWER LEVEL	T.A.I.		T.A.I.		B.O.	N.E.	N.E.	E.A.I.	TIME OPER. EFF. - NO-TO-DATE		
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.	4-16-65	N.		32	N.		N.	82.5	45.4	71.9
11. ESTIMATED STARTUP TIME		0500			4-17-65				TIME OPER. EFF. - 30 DAY AVG.		
					0800				87.0	71.3	82.5
									TIME OPER. EFF. FORECAST FOR MO.		
									86.0	80.8	84.5

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
	1	2	1	0	5	1	5	2	1	360.0

REMARKS:

C - Reactor continuing down on a scheduled outage.

H - Reactor resumed operations at 1000 hours concluding an outage caused by a heat cycle.

R - Reactor resumed operation at 1651 hours concluding a scheduled outage. The reactor manually scrambled at 1816 hours due to a faulty RTD. Resumed operation at 2009 hours.

4-15-65 (8-12)

C - Reactor resumed operations at 0222 hours concluding a scheduled outage. The reactor manually scrambled at 0529 hours due to the loss of cooling water pressure on HCR #14. An internal leak at the tip of rod is suspected.

F - Reactor shut down at 0430 hours for scheduled charge-discharge.

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REACTOR OPERATIONS DAILY REPORT

DATE 4-15-65

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Long Paul

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1950	1500	1825		0	1700	0	4400	6975	4400	11375
2. MAXIMUM POWER LEVEL - MW	1950	1850	1825		1975	1670	3990	4400	9270	8390	17660
3. INPUT PRODUCTION - MWD	1950	143	1825		351	1491	2166	4400	5760	6566	12326
4. OUTAGE HOURS	0	20.9	0		19.5	0	10.3	0	40.4	10.3	50.7
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	+6844	-384	-5050		-955	-5569	-23816	-21400	-5.1	-45.2	-50.3
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	9.2	9.0	9.0		11.5	9.6	9.0	7.8	LINE 5 TOTALS IN KWWD'S		
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	92.7	10.8	89.5		16.1	78.1	C.U.	88.3	INPUT PROD. FORECAST FOR MO.		
8. REACTOR WATER FLOW RATE AT 2330- GPM ± 1000	88.9	92.7	86.0		6.1	93.0	17.5	206.5	216.9	203.7	420.6
9. FACTOR LIMITING POWER LEVEL	T.A.I.		T.A.I.			N.E.		E.A.L.	81.4	47.6	71.7
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.	15	N.			N.		N.	85.9	70.6	81.6
11. ESTIMATED STARTUP TIME					4-17-65 0800		4-16-65 2200		TIME OPER. EFF. - 30 DAY AVG.		
									86.0	80.8	84.5

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS		RECOVERIES		SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.					COMPLETED	REMAINING		
	1	2	1	0	6		1		5	2	1	336.0

REMARKS:

C - Resumed operation at 0222 hours concluding a scheduled outage. The reactor was manually scrambled at 0529 hours due to loss of cooling water pressure on HCR No. 14. A five-inch section of the rod tip remained in the channel when the rod was removed. The tip section was later removed using the borescope.

F - Reactor shut down at 0430 hours for scheduled charge-discharge.

KE - Reactor scrambled at 1341 hours by a Beckman trip due to a short in the Beckman controller circuit.

4-16-65 (12-8)

C - Reactor resumed operation at 0208 hours.

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REACTOR OPERATIONS DAILY REPORT

DATE 4/16/65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1950	1925	1825		250	1700	3200	4400	9900	7600	17500
2. MAXIMUM POWER LEVEL - MW	1950	1905	1825		0	1700	0	4400	7380	4400	11780
3. INPUT PRODUCTION - MWD	1950	1312	1825		0	1696	0	4400	6783	4400	11183
4. OUTAGE HOURS	0	2.1	0		24.0	0	23.7	0	26.1	23.7	49.8
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD									LINE 5 TOTALS IN KWWD'S		
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	8.9	8.8	8.9		11.4	9.2	8.1	7.5	INPUT PROD. FORECAST FOR MO.		
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	92.5	81.7	89.6		13.1	79.2	10.0	88.4	TIME OPER. EFF. - MO-TO-DATE		
8. REACTOR WATER FLOW RATE AT 2330- GPM $\pm$ 1000	88.8	99.9	86.0		6.7	93.3	188.0	206.5	TIME OPER. EFF. - 30 DAY AVG.		
9. FACTOR LIMITING POWER LEVEL	T.A.I.	N.E.	T.A.I.			N.E.	N.E.	E.A.L.	TIME OPER. EFF. FORECAST FOR MO.		
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.	123	N.			N.		N.			
11. ESTIMATED STARTUP TIME	DATE										
	HOUR										

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
										357.0

REMARKS:

C - Reactor resumed operation at 0208 hours. Attempts to install a rod in Channel 14 were unsuccessful when the threads on the rod and the rod track failed to match.
F - Reactor continuing scheduled charge-discharge.
KE - Reactor resumed operation at 2341 hours concluding an outage initiated by a Beckman trip.

GROUP 1

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ROUGH DRAFT
AFTER FILL-IN

ROUGH DRAFT
AFTER FILL-IN

REACTOR OPERATIONS DAILY REPORT

DATE 4/17/65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1950	2045	1825		1875	1700	4370	4400	9395	8770	18165
2. MAXIMUM POWER LEVEL - MW	1950	2045	1825		1775	1700	4050	4400	9295	8450	17745
3. INPUT PRODUCTION - MWD	1950	1958	1825		1051	1700	3231	4400	8484	7631	16115
4. OUTAGE HOURS	0	0	0		7.1	0	0	0	7.1	0	7.1
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD									LINE 5 TOTALS IN KWWD'S		
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	9.1	8.9	9.5		10.4	10.0	8.3	7.6	INPUT PROD. FORECAST FOR MO.		
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	92.9	87.0	90.1		85.2	80.0	81.8	88.3	TIME OPER. EFF. - MO-TO-DATE		
8. REACTOR WATER FLOW RATE AT 2330- GPM $\pm$ 1000	88.8	99.9	86.0		89.6	93.3	206.5	206.5	TIME OPER. EFF. - 30 DAY AVG.		
9. FACTOR LIMITING POWER LEVEL	T.A.I.	N.E.	T.A.I.		N.E.	N.E.	N.E.	E.A.L.	TIME OPER. EFF. FORECAST FOR MO.		
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.	147	N.		14	N.	N.	N.			
11. ESTIMATED STARTUP TIME	DATE										
	HOUR										

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	Y.S.			COMPLETED	REMAINING		
										360.0

REMARKS:

F - Reactor resumed operation at 0707 hours concluding scheduled outage.

ROUGH DRAFT
AFTER FILL-IN

ROUGH DRAFT
AFTER FILL-IN

REACTOR OPERATIONS DAILY REPORT

DATE 4-18-65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1950	2105	1825		1905	1700	4400	4400	9485	8800	18285
2. MAXIMUM POWER LEVEL - MW	1950	2105	1825		1900	1700	4400	4400	9480	8800	18280
3. INPUT PRODUCTION - MWD	1950	2072	1825		1876	1700	4334	4400	9423	8734	18157
4. OUTAGE HOURS	0	0	0		0	0	0	0	0	0	0
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	+8194	-272	-3886		-2789	-2283	-26181	-18640	-1.0	-44.8	-45.8
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	9.0	8.9	9.5		10.8	10.2	8.3	7.7	LINE B TOTALS IN KWWD'S		
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	92.8	88.9	90.3		91.0	80.0	88.7	88.6	INPUT PROD. FORECAST FOR MO.		
8. REACTOR WATER FLOW RATE AT 2330- GPM ÷ 1000	88.8	100.1	86.0		89.6	93.3	207.0	206.5	216.9	203.7	420.6
9. FACTOR LIMITING POWER LEVEL	T.A.I.	N.E.	T.A.I.		N.E.	N.E.	E.A.L.	E.A.L.	TIME OPER. EFF. - MO-TO-DATE		
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.	90	N.		25	N.	N.	N.	83.0	53.6	74.5
11. ESTIMATED STARTUP TIME									TIME OPER. EFF. - 30 DAY AVG.		
									85.0	69.0	80.4
									86.0	80.8	84.5

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
	1	2	1	0	6	1	5	2	1	361.0

REMARKS:

RL-REA-345 RD

Jan 31 days
Feb 28
March 31
April 18
108 days OK

ROUGH DRAFT
AFTER FILL-IN

ROUGH DRAFT
AFTER FILL-IN

REACTOR OPERATIONS DAILY REPORT

This document classified by

DATE 4-19-65

Long Beach

	B		C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1950		2170	1825		1930	1700	4400	4400	9575	8800	18375
2. MAXIMUM POWER LEVEL - MW	1950		2160	1825		1920	1700	4400	4400	9555	8800	18355
3. INPUT PRODUCTION - MWD	1950		2120	1825		1906	1700	4400	4400	9501	8800	18301
4. OUTAGE HOURS	0		0	0		0	0	0	0	0	0	0
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	+8644		+105	-3498		-2475	-583	-25091	-17720	+2.2	-42.8	-40.6
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	8.8		8.9	9.0		10.0	9.5	8.1	7.5			
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	92.6		91.1	89.9		91.1	79.2	88.5	88.6			
8. REACTOR WATER FLOW RATE AT 2330- GPM ± 1000	88.8		100.4	86.0		89.6	93.3	207.0	206.5			
9. FACTOR LIMITING POWER LEVEL	T.A.I.		N.E.	T.A.I.		N.E.	N.E.	E.A.I.	E.A.I.			
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.		80	N.		N.	N.	N.	N.			
11. ESTIMATED STARTUP TIME												
INPUT PROD. FORECAST FOR MO.												
TIME OPER. EFF. - MO-TO-DATE												
TIME OPER. EFF. - 30 DAY AVG.												
TIME OPER. FFF. FORECAST FOR MO.												
OTHER OUTAGES												
DAILY PEAK ELECT. DEMAND - MEGAWATTS												
362.0												

REMARKS:

REMARKS:

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AFTER FILL-IN

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REACTOR OPERATIONS DAILY REPORT

DATE 4-20-65

	B	C	D	DR	F	H	KE	KW	SHALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1950	2210	1825		1955	0	4400	4400	7940	8800	16740
2. MAXIMUM POWER LEVEL - MW	1950	2210	1825		1950	1700	4400	4400	9635	8800	18435
3. INPUT PRODUCTION - MWD	1950	2180	1825		1934	1700	4400	4400	9589	8800	18389
4. OUTAGE HOURS	0	0	0		0	0	0	0	0	0	0
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	+9094	+542	-3110		-2128	+1117	-24001	-16800	+5.5	-40.8	-35.3
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	9.1	9.0	9.5		10.7	10.0	8.6	7.9	216.9	203.7	420.6
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	93.1	93.0	90.5		93.0	79.0	88.8	88.8	84.7	58.3	77.1
8. REACTOR WATER FLOW RATE AT 2330- GPM ± 1000	88.8	100.3	86.0		89.8	93.2	207.0	206.5	85.0	69.0	80.4
9. FACTOR LIMITING POWER LEVEL	T.A.I.	N.E.	T.A.I.		B.O.	T.P.	E.A.I.	E.A.I.	86.0	80.8	84.5
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.	41	N.		20	N.	N.	N.			
11. ESTIMATED STARTUP TIME	DATE										
	HOUR										

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
	1	2	1	0	6	1	6	1	1	368.0

REMARKS:
4/21/65 (12-8)

H - Reactor shut down at 0300 hours as the first step in deactivation.

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ROUGH DRAFT
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DATE 4/22/65

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	MAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
1	2		1	0	5	0	6	1	2	345.0

REMARKS:

H - Reactor shut down at 0300 hours as the first step in the deactivation. Internal decontamination of rear face hardware is in progress.

4-22-65 (12-8)

H - Reactor completed decontamination of rear face. Startup for the physics tests was accomplished at 0729 hours.

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ANALYSIS

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ROUGH DRAFT

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by E. Prudich

ROLL DRAFT
AFTER FILL-IN

REACTOR OPERATIONS DAILY REPORT

DATE 4-22-65

	B	C	D	DR	F	H	K _E	KW	SHALL	R'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1950	2210	1825		1970		4400	4400	7955	8800	16755
2. MAXIMUM POWER LEVEL - MW	1950	2210	1825		1970		4400	4400	7955	8800	16755
3. INPUT PRODUCTION - MWD	1950	2210	1825		1963		4400	4400	7948	8800	16748
4. OUTAGE HOURS	0	0	0		0		0	0	0	0	0
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	+9994	+1475	-2334		-1383	+1.3 ± 3	-21821	-14960	+9.1	-36.8	-27.7
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	9.6	9.1	9.0		9.9		8.4	7.9			
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	93.2	93.2	89.8		93.2		88.7	88.7	216.9	203.7	420.6
8. REACTOR WATER FLOW RATE AT 2330- GPM + 1000	88.5	100.3	86.0		89.5		207.0	206.5	85.8	62.0	78.9
9. FACTOR LIMITING POWER LEVEL	T.A.I.	G.	T.A.I.		B.O.		E.A.L.	E.A.L.			
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.	19	N.		29		N.	N.	84.8	69.0	80.2
11. ESTIMATED STARTUP TIME									86.0	82.5	80.8

	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
12. COMBINED REACTORS MONTH-TO-DATE	1	2	1	0	5	0	6	1	2	342.0

REMARKS:

HI - Reactor - Startup for physics tests was accomplished at 0729 hours and are continuing on schedule.

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AND RECLASSIFICATION**

ROUGH DRAFT
AFTER FILL-IN

Ray Trudell

[illegible][illegible]

REMARKS:

H - Reactor physics tests are continuing on schedule.

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- ROUGH DRAFT

ROUGH DRAFT

AFTER FILL-IN

REACTOR OPERATIONS DAILY REPORT

DATE 2-24-65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1950	2210	1825		1975		4400	4400	7960	8800	16760
2. MAXIMUM POWER LEVEL - MW	1950	2210	1825		1975		4400	4400	7960	8800	16760
3. INPUT PRODUCTION - MWD	1950	2210	1825		1975		4400	4400	7960	8800	16760
4. OUTAGE HOURS	0	0	0		0		0	0	0	0	0
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD											
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	9.9	9.6	9.3		10.2		8.8	8.0			
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	93.7	93.5	90.0		93.7		89.2	89.0			
8. REACTOR WATER FLOW RATE AT 2330- GPM ÷ 1000	98.5	100.8	86.0		89.5		207.0	206.5			
9. FACTOR LIMITING POWER LEVEL	T.A.I.	G.	T.A.T.		B.O.		E.A.I.	E.A.I.			
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.	12	N.		24		N.	71			
11. ESTIMATED STARTUP TIME											

LINE 5 TOTALS IN KWWD'S

INPUT PROD. FORECAST FOR MO.

TIME OPER. EFF. - MO-TO-DATE

TIME OPER. EFF. - 30 DAY AVG.

TIME OPER. EFF. FORECAST FOR MO.

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ERR.	TUBE	V.S.			COMPLETED	REMAINING		
										345.0

REMARKS:

H - Reactor physics tests are continuing on schedule.

ROUGH DRAFT

AFTER FILL-IN

ROUGH DRAFT

AFTER FILL-IN

REACTOR OPERATIONS DAILY REPORT

DATE 4-25-65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1960	2215	1815		1975		4400	4400	7965	8800	16765
2. MAXIMUM POWER LEVEL - MW	1960	2215	1825		1975		4400	4400	7975	8800	16775
3. INPUT PRODUCTION - MWD	1870	2118	1746		1893		4217	4217	7627	8434	16061
4. OUTAGE HOURS	0	0	0		0		0	0	0	0	0
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	+11264	+2783	-1249		-306	<i>113-7</i>	-18734	-12383	+13.8	-31.1	-17.3
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	10.4	10.0	10.0		10.7		9.3	8.5	216.9	203.7	420.6
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	94.0	93.8	90.2		94.0		89.6	89.4	TIME OPER. EFF. - MO-TO-DATE		
8. REACTOR WATER FLOW RATE AT 2330- GPM $\div$ 1000	89.1	101.1	86.0		89.9		207.0	206.5	87.2	66.5	81.1
9. FACTOR LIMITING POWER LEVEL	T.A.I.	G.	T.A.I.		B.O.		E.A.L.	E.A.L.	TIME OPER. EFF. - 30 DAY AVG.		
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.	13	N.		25		N.	N.	87.2	68.9	81.9
11. ESTIMATED STARTUP TIME									TIME OPER. EFF. FORECAST FOR MO.		
									86.0	80.8	84.5

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
	1	2	1	0	5	0	6	1	2	338.0

REMARKS:

H - Reactor physics tests are continuing on schedule.

ROUGH DRAFT

AFTER FILL-IN

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E. Prudich

ROUGH DRAFT
AFTER FILL-IN

REACTOR OPERATIONS DAILY REPORT

DATE 4/26/65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	0	2215	1805		1965		4400	4400	5985	8800	14785
2. MAXIMUM POWER LEVEL - MW	1960	2215	1815		1975		4400	4400	7965	8800	16765
3. INPUT PRODUCTION - MWD	1960	2215	1811		1971		4400	4400	7927	8800	16757
4. OUTAGE HOURS	0	0	0		0		0	0	0	0	0
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	+11724	+3255	-875		+83	11323	-17644	-11463	+15.5	-29.1	-13.6
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	10.4	10.0	11.0		10.8		9.3	8.7			
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	94.2	94.0	89.8		94.0		89.8	89.5			
8. REACTOR WATER FLOW RATE AT 2330- GPM $\div$ 1000	89.2	101.0	86.0		90.0		207.0	206.5			
9. FACTOR LIMITING POWER LEVEL	T.A.I.	G.	T.A.I.		B.O.		E.A.L.	E.A.L.			
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.	N.	N.		N.		N.	25			
11. ESTIMATED STARTUP TIME	4-30-65										
	2000										

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ERR.	TUBE	V.S.			COMPLETED	REMAINING		
	1	2	1	0	5	0	7	0	2	339.0

REMARKS:

H - Reactor physics tests are continuing on schedule.

4-27-65 (12-8)

B - Reactor shut down at 0353 hours for scheduled charge-discharge.

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REACTOR OPERATIONS DAILY REPORT

4/27/65

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	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	0	2215	1800		1955		4400	4400	5970	8800	14770
2. MAXIMUM POWER LEVEL - MW	1960	2215	1805		1965		4400	4400	7945	8800	16745
3. INPUT PRODUCTION - MWD	300	2215	1803		1959		4400	4400	6277	8800	15077
4. OUTAGE HOURS	20.1	0	0		0		0	0	20.1	0	20.1
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	+10524	+3726	-509		+455	+1323	-16554	-10534	+15.5	-27.1	-11.6
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	12.6	10.3	10.0		11.0		2.5	8.7	INPUT PROD. FORECAST FOR MO.		
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	20.8	94.5	89.8		93.5		89.6	89.6	216.9	104.4	203.7
8. REACTOR WATER FLOW RATE AT 2330- GPM ÷ 1000	7.4	100.8	86.0		90.2		207.0	206.5	TIME OPER. EFF. - MO-TO-DATE		
9. FACTOR LIMITING POWER LEVEL		B.O.	T.A.I.		B.O.		E.A.I.	E.A.I.	87.4	69.0	81.9
10. DAILY ABNORMAL WATER COLLECTION - GALS.		N.	N.		30		N.	N.	TIME OPER. EFF. - 30 DAY AVG.		
11. ESTIMATED STARTUP TIME	5-1-65 0800								87.5	68.9	82.0
									86.0	80.8	84.5

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
1	2	1	0	5	0	7	0	2	320.0	

REMARKS:

REMARKS: Reactor shut down at 0353 hours for scheduled charge-discharge.

Physics tests at H Reactor are continuing on schedule.

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ROUGH DRAFT

ROUGH DRAFT
AFTER FILL-IN

REACTOR OPERATIONS DAILY REPORT

DATE 4-28-65

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	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	0	2190	1805		1955		4400	4400	5950	8800	14750
2. MAXIMUM POWER LEVEL - MW	0	2215	1800		1955		4400	4400	5970	8800	14770
3. INPUT PRODUCTION - MWD	0	2201	1797		1955		4400	4400	5953	8800	14753
4. OUTAGE HOURS	24.0	0	0		0		0	0	24.0	0	24.0
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	+9024	+4184	-149		+823	11323	-15464	-9623	+15.2	-25.1	-9.9
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	10.5	10.8	10.2		11.2		9.7	8.8	LINE 5 TOTALS IN KWWD'S		
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	17.0	94.0	90.0		93.8		89.8	89.7	INPUT PROD. FORECAST FOR MO.		
8. REACTOR WATER FLOW RATE AT 2330- GPM ÷ 1000	2.7	100.9	86.0		90.2		207.0	206.5	216.9	203.7	420.6
9. FACTOR LIMITING POWER LEVEL		*I.A.L.	T.A.I.		B.O.		E.A.L.	E.A.L.	TIME OPER. EFF. - MO-TO-DATE		
10. DAILY ABNORMAL WATER COLLECTION - GALS.		N.	N.		26		N.	55	87.0	70.1	82.0
11. ESTIMATED STARTUP TIME	5-1-65 0800								TIME OPER. EFF. - 30 DAY AVG.		
									86.0	80.8	84.5

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
	1	2	1	0	5	0	7	0	2	304.0

REMARKS:

B - Reactor continuing down for scheduled charge-discharge.
Physics tests at H Reactor are continuing on schedule.

*C - Reactor power level reduced to maintain bulk outlet temperature not in excess of 94.5 degrees due to broken splines in several tubes.

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ROUGH DRAFT

ROUGH DRAFT

AFTER FILL-IN

REACTOR OPERATIONS DAILY REPORT

DATE 4/29/65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	0	2200	1795		1955		4400	4400	5950	8800	14750
2. MAXIMUM POWER LEVEL - MW	0	2200	1805		1955		4400	4400	5960	8800	14760
3. INPUT PRODUCTION - MWD	0	2197	1799		1955		4400	4400	5951	8800	14751
4. OUTAGE HOURS	24.0	0	0		0		0	0	24.0	0	24.0
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	+7524	+4638	+213		+1191	+1323	-14374	-8703	+14.9	-23.1	-8.2
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	11.8	10.7	10.0		11.0		9.8	8.9			
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	17.3	94.2	89.8		93.8		90.0	89.8			
8. REACTOR WATER FLOW RATE AT 2330- GPM ± 1000	6.5	100.5	86.2		90.3		207.0	206.5	86.6	71.2	82.0
9. FACTOR LIMITING POWER LEVEL		I.A.L.	T.A.I.		B.O.		F.A.L.	F.A.L.	86.9	71.8	82.4
10. DAILY ABNORMAL WATER COLLECTION - GALS.		N.	N.		33		N.	N.			
11. ESTIMATED STARTUP TIME	5-1-65 0800								86.0	80.8	84.5

LINE 5 TOTALS IN KWWD'S

INPUT PROD. FORECAST FOR MO.

TIME OPER. EFF. - MO-TO-DATE

TIME OPER. EFF. - 30 DAY AVG.

TIME OPER. EFF. FORECAST FOR MO.

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
	1	2	1	0	5	0	7	0	2	300.0

REMARKS:

B - Reactor continuing down for scheduled charge-discharge.

The physics tests at H Reactor are continuing on schedule.

At 0820 hours earthquake indications were noted on galvanometers at all operating reactors. No seismoscope trips were experienced.

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ROUGH DRAFT

AFTER FILL-IN

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ROUGH DRAFT
AFTER FILL-IN

REACTOR OPERATIONS DAILY REPORT

This document classified by

Donal F. ...

DATE 4/30/65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	0	2195	1790		1955		4400	4400	5940	8800	14740
2. MAXIMUM POWER LEVEL - MW	0	2200	1795		1955		4400	4400	5950	8800	14750
3. INPUT PRODUCTION - MWD	0	2198	1788		1955		4400	4400	5941	8800	14741
4. OUTAGE HOURS	24.0	0	0		0		0	0	24.0	0	24.0
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	+6024	+5092	+564	+1323	+1569		-13284	-7783	+14.6	-21.1	-6.5
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	14.0	10.6	10.0		11.0		9.2	8.8	LINE 5 TOTALS IN KMWDS		
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	20.0	94.0	89.3		93.6		89.8	89.6	INPUT PROD. FORECAST FOR MO.		
8. REACTOR WATER FLOW RATE AT 2330- GPM $\div$ 1000	6.5	100.6	86.1		90.1		207.0	206.5	216.9	203.7	420.6
9. FACTOR LIMITING POWER LEVEL		I.A.L.	T.A.I.		B.O.		E.A.I.	E.A.I.	TIME OPER. EFF. - MO-TO-DATE		
10. DAILY ABNORMAL WATER COLLECTION - GALS.		N.	N.		20		N.	N.	86.3	72.1	82.1
11. ESTIMATED STARTUP TIME	DATE								TIME OPER. EFF. - 30 DAY AVG.		
	1	2	1	0	5	0	7	0	86.0	80.8	84.5
									TIME OPER. EFF. FORECAST FOR MO.		

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
	1	2	1	0	5	0	7	0	2	302.0

REMARKS:

H - Physics tests are continuing on schedule. April 11 - production (414.1 KMWDS) was 98.5% of the forecast.

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ROUGH DRAFT
AFTER FILL-IN

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ROUGH DRAFT
AFTER FILL-IN

REACTOR OPERATIONS DAILY REPORT

DATE 5/1/65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1700	2195	1790		1955		4400	4400	7640	8800	16440
2. MAXIMUM POWER LEVEL - MW	1500	2195	1790		1955		4400	4400	7440	8800	16240
3. INPUT PRODUCTION - MWD	530	2195	1790		1955		4400	4400	6470	8800	15270
4. OUTAGE HOURS	13.5	0	0		0		0	0	13.5	0	13.5
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD									LINE 5 TOTALS IN KWWD'S		
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	10.3	10.3	10.2		11.3		9.4	8.8	INPUT PROD. FORECAST FOR MO.		
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	74.0	93.9	89.8		94.0		89.8	89.6	TIME OPER. EFF. - MO-TO-DATE		
8. REACTOR WATER FLOW RATE AT 2330- GPM ÷ 1000	89.6	100.7	86.1		90.1		207.0	206.5	TIME OPER. EFF. - 30 DAY AVG.		
9. FACTOR LIMITING POWER LEVEL	N.E.	I. A.L.	T.A.I.		B.O.		E.A.L.	E.A.L.	TIME OPER. EFF. FORECAST FOR MO.		
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.	N.	N.		47		N.	35			
11. ESTIMATED STARTUP TIME											

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
										327.0

REMARKS:

B - Resumed operation at 1238 hours concluding a scheduled outage.
 Reactor scrambled at 1308 hours due to a Panellit trip caused by a leaking rear cap on tube 1774. Resumed operation at 1401 hours.

A - A crack about 10 ft. long in the concrete at the base of 107-E basin has developed. No water leakage has been observed.
 Physics tests are continuing on schedule.

ROUGH DRAFT
AFTER FILL-IN

ROUGH DRAFT
AFTER FILL-IN

REACTOR OPERATIONS DAILY REPORT

DATE 5/2/65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1850	2195	0		0		4400	4400	4045	8800	12845
2. MAXIMUM POWER LEVEL - MW	1800	2195	1800		1955		4400	4400	7750	8800	16550
3. INPUT PRODUCTION - MWD	1720	2195	1792		1955		4400	4400	7662	8800	16462
4. OUTAGE HOURS	0	0	0		0		0	0	0	0	0
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD									LINE 5 TOTALS IN KWWD'S		
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	10.5	10.0	9.5		10.5		9.1	8.8	INPUT PROD. FORECAST FOR MO.		
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	87.3	93.5	89.4		93.4		89.7	89.5	TIME OPER. EFF. - MO-TO-DATE		
8. REACTOR WATER FLOW RATE AT 2330- GPM ± 1000	90.0	100.6	86.1		90.1		207.0	206.5	TIME OPER. EFF. - 30 DAY AVG.		
9. FACTOR LIMITING POWER LEVEL	N.E.	I.A.L.	T.A.I.		B.O.		E.A.L.	E.A.L.	TIME OPER. EFF. FORECAST FOR MO.		
10. DAILY ABNORMAL WATER COLLECTION - GALS.	13	N.	N.		48		N.	N.			
11. ESTIMATED STARTUP TIME			5-4-65		5-4-65						
			1500		1900						

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
										326.0

REMARKS:

- C - At 0035 hours a broken spline apparently in tube 3976 washed downstream causing a 10 megawatt increase in power level and a 0.3 increase in bulk outlet temperature.
- D - Reactor shut down at 0442 hours due to the loss of electrical power to the HCR's. Investigation revealed a loose connector in the electric equipment room.
- F - Reactor shut down at 0622 hours due to a water leak.
- H - Physics tests are continuing on schedule.

ROUGH DRAFT
AFTER FILL-IN

ROI DRAFT
AFTER FILL-IN

REACTOR OPERATIONS DAILY REPORT

DATE 5-3-65

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Long Paul

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1900	2200	0		0		4400	0	4100	4400	8500
2. MAXIMUM POWER LEVEL - MW	1875	2200	1800		1960		4400	4400	7835	8800	16635
3. INPUT PRODUCTION - MWD	1875	2198	353		541		4400	3990	4949	8390	13339
4. OUTAGE HOURS	0	0	19.3		17.6		0	2.2	36.9	2.2	39.1
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	-219	+1536	+1022		-136		+3203	+2029	+2.2	+5.2	+7.4
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	10.4	10.1	10.8		11.8		9.3	8.9	LINE 5 TOTALS IN KMW-D'S		
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	90.3	93.5	16.8		16.3		89.7	15.0	174.4	214.5	388.9
8. REACTOR WATER FLOW RATE AT 2330- GPM $\pm$ 1000	89.9	100.5	5.5		6.7		207.0	66.5	82.5	98.5	87.8
9. FACTOR LIMITING POWER LEVEL	N.E.	I.A.L.					E.A.L.	15	86.4	80.1	84.3
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.	N.					N.		TIME OPER. EFF. - 30 DAY AVG.		
11. ESTIMATED STARTUP TIME			5-4-65 1500		5-4-65 1600				77.6	82.4	79.2
									TIME OPER. EFF. FORECAST FOR MO.		

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
	0	0	1	0	1	0	1	4	1	308.0

REMARKS:

D - Reactor shut down at 0442 hours due to the loss of electrical power to the HCRs. Investigation revealed a loose connector in the electrical equipment room. Charge-discharge is in progress.

F - Reactor shut down at 0622 hours due to a water leak. Tube 1464 was confirmed as an internal leak and the tube was replaced.

H - Reactor physics tests are continuing on schedule.

KW - Reactor scrambled at 2146 hours due to a high pressure Panellit trip on thoria tube 4971. The reactor will remain down for the charge-discharge of thoria and RTD work scheduled for 5/4/65.

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AFTER FILL-IN

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AFTER FILL-IN

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Tom Paul

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REACTOR OPERATIONS DAILY REPORT

DATE 5/4/65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1910	2200	1400		900		4400	0	6410	4400	10810
2. MAXIMUM POWER LEVEL - MW	1910	2200	1000		200		4400	0	5310	4400	9710
3. INPUT PRODUCTION - MWD	1900	2200	47		1		4400	0	4148	4400	8548
4. OUTAGE HOURS	0	0	22.1		20.7		0	24.0	42.8	24.0	66.8
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	+239	+2052	+98		-1664		+4271	-1558	+0.7	+2.7	+3.4
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	10.0	9.6	9.5		10.2		8.9	10.0			
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	91.2	93.6	55.0		12.2		89.5	27.8			
8. REACTOR WATER FLOW RATE AT 2330- GPM ± 1000	90.1	100.4	85.5		84.1		207.0	13.2			
9. FACTOR LIMITING POWER LEVEL	N.F.	F.A.I.	N.E.				E.A.I.				
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.	N.					N.	15			
11. ESTIMATED STARTUP TIME								5-7-65			
								1600			

LINE 5 TOTALS IN KWWD'S

INPUT PROD. FORECAST FOR MO.

TIME OPER. EFF. - MO-TO-DATE

TIME OPER. EFF. - 30 DAY AVG.

TIME OPER. EFF. FORECAST FOR MO.

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
	0	0	1	0	3	2	1	4	1	275.0

REMARKS:

D - Resumed operation at 2205 hours concluding an outage caused by a loose connection in the electrical equipment room.
E - Reactor resumed operation at 2030 hours concluding an outage caused by a water leak. Reactor scrammed at 2350 due to an unexplained Panellit trip.
F - Reactor will complete physics tests at 1200 hours. Will start final discharging of reactor.
G - Continuing down following a high pressure Panellit trip to complete scheduled charge-discharge of thorium and RFD work.

5-5-65 (12-8)

F - Reactor resumed operation at 0906 hours concluding a Panellit trip outage. Reactor manually scrammed at 0137 hours due to difficulty in moving HCRs A, 2 and B. Resumed operation at 0249 hours.

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ROUGH DRAFT

AFTER FILL-IN

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REACTOR OPERATIONS DAILY REPORT

DATE 5/5/65

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	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1910	2210	1700		1725		4400	0	7545	4400	11945
2. MAXIMUM POWER LEVEL - MW	1910	2205	1650		1575		4400	0	7340	4400	11740
3. INPUT PRODUCTION - MWD	1910	2203	1385		1051		4400	0	6549	4400	10949
4. OUTAGE HOURS	0	0	0		1.6		0	24.0	1.6	24.0	25.6
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	+707	+2571	+512		-2142		+5339	-5145	+1.6	+0.2	+1.8
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	10.1	9.5	9.3		10.0		9.0	10.0			
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	91.2	93.5	81.8		76.3		89.1	30.0			
8. REACTOR WATER FLOW RATE AT 2330- GPM ÷ 1000	89.9	100.8	86.2		89.9		207.0	13.0			
9. FACTOR LIMITING POWER LEVEL	T.A.I.	I.A.L.	N.E.		N.E.		E.A.L.				
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.	N.	N.		37		N.				
11. ESTIMATED STARTUP TIME								5-7-65			
								1600			

LINE 5 TOTALS IN KWWD'S

INPUT PROD. FORECAST FOR MO.

TIME OPER. EFF. - MO-TO-DATE

TIME OPER. EFF. - 30 DAY AVG.

TIME OPER. EFF. FORECAST FOR MO.

	RUPTURES	WATER LEAKS	SCRAMS	RECOVERIES	SCHEDULED OUTAGES	OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	TUBE	ENR.		COMPLETED	REMAINING	
12. COMBINED REACTORS MONTH-TO-DATE	0	1	0	3	2	1	280.0

REMARKS:

F - Reactor resumed operation at 0226 hours concluding a Panellit trip outage. Reactor manually scrambled at 0137 hours due to difficulty in moving HCRs A, 2 and B. Resumed operation at 0249 hours.

H - Reactor completely discharged except for five rows.

KW - Completed charge-discharge of thorium except for three thorium tubes yet to be discharged due to suspected failures. RTD work in progress.

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ROUGH DRAFT

AFTER FILL-IN

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AFTER FILL-IN

REACTOR OPERATIONS DAILY REPORT

DATE 5-6-65

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E. C. Prudich

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1910	2205	1750		1940		4400	0	7805	4400	12205
2. MAXIMUM POWER LEVEL - MW	1910	2210	1740		1870		4400	0	7730	4400	12130
3. INPUT PRODUCTION - MWD	1910	2209	1705		1769		4400	0	7593	4400	11993
4. OUTAGE HOURS	0	0	0		0		0	24.0	0	24.0	24.0
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	+1176	+3095	+1245		-1902		+6406	-8732	+3.6	-2.3	+1.3
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	10.4	10.0	10.0		10.5		9.7	10.2			
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	91.7	94.0	86.2		89.9		89.9	33.0			
8. REACTOR WATER FLOW RATE AT 2330- GPM ± 1000	94.1	100.2	86.3		90.3		89.0	13.0			
9. FACTOR LIMITING POWER LEVEL	T.A.L.	T.A.L.	N.E.		N.E.		N.A.I.				
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.	N.	42		98		N.				
11. ESTIMATED STARTUP TIME											
								5-7-65			
								2400			
									77.6	82.4	79.2

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES	WATER LEAKS	SCRAMS	RECOVERIES	SCHEDULED OUTAGES	OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	TUBE			COMPLETED	REMAINING	
	0	1	3	2	1	4	230.0

REMARKS:

11 - Reactor completed discharge of all process tubes. Verification of empty tubes in progress.

12 - Completed recharging of 147 RTDs. Water leak testing in progress.

13 - Leak suspect on header No. 19.

5-7-65 (12-8)

14 - All process tubes were verified as empty and the process water to the reactor was turned off at 0354 hours.

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- ROUGH DRAFT
AFTER FILL-IN

REACTOR OPERATIONS DAILY REPORT

DATE 5-7-65

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	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1915	0	1765		1950		4400	3500	5630	7900	13530
2. MAXIMUM POWER LEVEL - MW	1915	2205	1765		1945		4400	0	7830	4400	12230
3. INPUT PRODUCTION - MWD	1911	2204	1755		1929		4400	0	7799	4400	12199
4. OUTAGE HOURS	0	0	0		0		0	24.0	0	24.0	24.0
5. INPUT PRODUCTION VARIANCE FROM FORECAST-N-T-D - MWD									LINE 5 TOTAL 3 IN KWWD'S		
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	10.9	10.7	10.1		10.9		10.0	9.5	INPUT PROD. FORECAST FOR MO.		
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	22.4	94.0	93.2		93.2		90.1	11.0	TIME OPER. EFF. - MO-TO-DATE		
8. REACTOR WATER FLOW RATE AT 2330- GPM ± 1000	89.2	100.0	86.3		90.1		207.5	192.0	TIME OPER. EFF. - 30 DAY AVG.		
9. FACTOR LIMITING POWER LEVEL	T.A.I.	T.A.I.	T.A.I.		B.O.		E.A.I.		TIME OPER. EFF. FORECAST FOR MO.		
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.	N.	41		30		N.				
11. ESTIMATED STARTUP TIME											

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	EMR.	TUBE	V.S.			COMPLETED	REMAINING		
										520.0

REMARKS:

12. - The entire reactor was helium leak tested; no leaks were found. Two thorium failures were discharged, one from tube 3553. The tube number of the other failure is unknown.

SECRET
This document contains information of a classified nature and its disclosure in any manner to unauthorized personnel is prohibited.

CLASSIFIED
EXCLUDED FROM AUTOMATIC DOWNGRADING
AND DECLASSIFICATION

- ROUGH DRAFT
AFTER FILL-IN

REACTOR OPERATIONS DAILY REPORT

DATE 5/8/55

[illegible]

REMARKS:

1 - Reactor started at 0017 hours by a high pressure Panellet test caused by a failed over-bore fuel element at tube 1203. The reactor was removed and scheduled charge-discharge planned for 01/01/23 in progress.

2 - Reactor operation at 0017 hours completing scheduled work during an outage initiated by a high pressure Panellet test on a thoria tile.

ROUGH DRAFT
AFTER FILL-IN

129

AFTER FILL-IN

DATE 5/9/65

LINE	5	TOTALS IN KMWDS
1	1	1
2	2	2
3	3	3
4	4	4
5	5	5
6	6	6
7	7	7
8	8	8
9	9	9
10	10	10
11	11	11
12	12	12
13	13	13
14	14	14
15	15	15
16	16	16
17	17	17
18	18	18
19	19	19
20	20	20
21	21	21
22	22	22
23	23	23
24	24	24
25	25	25
26	26	26
27	27	27
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67	67	67
68	68	68
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74	74	74
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76	76	76
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78	78	78
79	79	79
80	80	80
81	81	81
82	82	82
83	83	83
84	84	84
85	85	85
86	86	86
87	87	87
88	88	88
89	89	89
90	90	90
91	91	91
92	92	92
93	93	93
94	94	94
95	95	95
96	96	96
97	97	97
98	98	98
99	99	99
100	100	100

**DAILY PEAK ELECT.
DEMAND - MEGAWATTS**

C - Reactor continuing down for charge-discharge and other scheduled work.

KE - Reactor shut down at 0718 hours for the removal of an I&E enriched rupture from tube 2582.

AFTER FILL-IN

This document contains rest of data as defined in the Atomic Energy Act of 1946. Its transmission or disclosure of its contents in any manner to an unauthorized person is prohibited.

REACTOR OPERATIONS DAILY REPORT contents in any manner to an unauthorized person is prohibited.

DATE 5-10-65

DATE 5-10-65

This document classified by

Edw. Prudden

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1920	0	1775		1955		0	4325	5650	4325	9975
2. MAXIMUM POWER LEVEL - MW	1920	0	1770		1955		0	4300	5645	4300	9945
3. INPUT PRODUCTION - MWD	1920	0	1770		1955		0	4247	5645	4247	9892
4. OUTAGE HOURS	0	24.0	0		0		24.0	0	24.0	24.0	48.0
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	+3074	-1395	+4420		-228		+3298	-11491	+5.9	-8.2	-2.3
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	12.3	11.6	11.1		11.8		12.2	10.3	INPUT PROD. FORECAST FOR MO.		
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	94.0	13.2	89.1		94.4		C.U.	89.0	174.4	214.5	388.9
8. REACTOR WATER FLOW RATE AT 2330- GPM $\pm$ 1000	90.1	27.4	86.2		90.1		18.4	206.5	TIME OPER. EFF. - MO-TO-DATE		
9. FACTOR LIMITING POWER LEVEL	T.A.I.		T.A.I.		B.O.			N.E.	82.7	71.0	78.8
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.		18		33			N.	TIME OPER. EFF. - 30 DAY AVG.		
11. ESTIMATED STARTUP TIME		5-11-65 1000					5-11-65 1900		86.2	81.7	84.7
DATE									TIME OPER. EFF. FORECAST FOR MO.		
11. ESTIMATED STARTUP TIME									77.6	82.4	79.2

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
	1	1	1	0	3	2	2	3	1	268.0

REMARKS: * Two thorja failures not included.

C Reactor - Continuing charge-discharge and other scheduled work.

KE Reactor - The I&E enriched rupture in tube 2582 was removed with the charging machine. Charge-discharge and RPD repairs in progress.

5/11/65 (12-8)

C Reactor - Resumed operation at 0715 hours concluding a scheduled outage initiated by an overbore rupture. Reactor shut down at 0729 hours when a newly installed regulating valve on HCR cooling water failed to operate properly. Investigation is in progress.

GROUP 1

Category
Excluded from automatic downgrading
and declassification

ROUGH DRAFT
AFTER FILL-IN

This document classified by

DATE 5-11-65

REACTOR OPERATIONS DAILY REPORT

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1920	1965	1775		1950		3700	4400	7610	8100	15710
2. MAXIMUM POWER LEVEL - MW	1920	1900	1775		1955		1000	4350	7550	5350	12900
3. INPUT PRODUCTION - MWD	1920	500	1774		1953		69	4329	6147	4398	10545
4. OUTAGE HOURS	0	15.3	0		0		21.9	0	15.3	21.9	37.2
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	+3552	-2579	+5223		+196		+35	-10749	+6.4	-10.7	-4.3
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	12.6	12.1	11.7		12.3		11.5	10.9	LINE 8 TOTALS IN KWWD'S		
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	94.3	85.5	89.8		94.8		21.8	90.6	INPUT PROD. FORECAST FOR MO.		
8. REACTOR WATER FLOW RATE AT 2330- GPM ÷ 1000	89.8	100.0	86.3		90.0		194.0	206.5	TIME OPER. EFF. - MO-TO-DATE		
9. FACTOR LIMITING POWER LEVEL	T.A.I.	N.E.	T.A.I.		B.O.		N.E.	N.E.	TIME OPER. EFF. - 30 DAY AVG.		
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.	13	N.		36		N.	60	TIME OPER. EFF. FORECAST FOR MO.		
11. ESTIMATED STARTUP TIME									77.6	82.4	79.2

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
	*1	1	1	0	4	3	2	3	1	323.0

REMARKS: * Two thorium failures not included.

C - Reactor resumed operation at 0715 hours concluding a scheduled outage initiated by an overbore rupture. Reactor shut down at 0729 hours due to failure of the HCR water PRV to control pressure. Resumed operation at 1443 hours. Reactor manually scrambled at 1510 hours when a high trip on the HCR water supply was experienced during adjustments on the HCR water PRV. Resumed operation at 1601 hours.

KE - Resumed operation at 2154 hours concluding rupture removal outage.

GROUP 1

Excluded from automatic downgrading and declassification

RESTRICTED DATA
This document contains restricted data as defined by the Atomic Energy Act of 1954. Its transmission in any manner to unauthorized persons is prohibited.

ROUGH DRAFT
AFTER FILL-IN

This document classified by
E. P. Prudich

REACTOR OPERATIONS DAILY REPORT

DATE 5-12-65

ROUGH DRAFT
AFTER FILL-IN

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1915	0	1775		1935		4275	4400	5625	8675	14300
2. MAXIMUM POWER LEVEL - MW	1920	1965	1775		1950		4250	4400	7610	8650	16260
3. INPUT PRODUCTION - MWD	1919	695	1775		1945		3806	4390	6334	8196	14530
4. OUTAGE HOURS	0	15.4	0		0		0	0	15.4	0	15.4
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	+4029	-3568	+6027		+612		+509	-9946	+7.1	-2.4	-2.3
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	12.9	12.2	12.0		12.7		11.8	11.0	174.4	214.5	388.9
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	94.5	14.0	90.1		94.5		89.0	91.8	82.9	72.1	79.3
8. REACTOR WATER FLOW RATE AT 2330- GPM ± 1000	89.7	31.0	86.3		90.0		207.0	206.5	85.7	83.5	85.0
9. FACTOR LIMITING POWER LEVEL	B.O.		T.A.I.		B.O.		N.E.	E.A.I.	77.6	82.4	79.2
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.	24	N.		39		N.	30			
11. ESTIMATED STARTUP TIME		5-13-65 1630									

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
	*1	1	1	0	4	3	2	3	1	328.0

REMARKS: * Four thoria failures not included.

C - Reactor shut down at 0838 hours due to high pressure on thoria tubes 1196 and 2396.
Failed thoria elements were discharged from the two tubes. Miscellaneous maintenance work is in progress.

STRICTLY DATA
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GROUP 1
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ROUGH DRAFT
AFTER FILL-IN

ROUGH DRAFT
AFTER FILL-IN

REACTOR OPERATIONS DAILY REPORT

This document classified by

DATE 5-13-65

Tony D. Smith

	C	D	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1915	1700	1775	1930	4400	4400	7320	8800	16120
2. MAXIMUM POWER LEVEL - MW	1915	1800	1775	1935	4400	4400	7425	8800	16225
3. INPUT PRODUCTION - MWD	1915	325	1775	1934	4285	4400	5949	8685	14634
4. OUTAGE HOURS	0	18.2	0	0	0	0	18.2	0	18.2
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	+4502	-4925	+6831	+1017	+1462	-9133	+7.4	-7.6	-0.2
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	12.7	12.5	12.0	12.7	11.8	11.1	174.4	214.5	388.9
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	94.6	80.1	90.2	94.4	91.8	91.7	82.9	74.2	79.9
8. REACTOR WATER FLOW RATE AT 2330- GPM ÷ 1000	89.7	101.2	86.3	90.0	207.5	206.5	85.9	85.2	85.7
9. FACTOR LIMITING POWER LEVEL	B.O.	N.E.	T.A.I.	B.O.	E.A.L.	E.A.L.	77.6	82.4	79.2
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.	N.	N.	30	N.	25			
11. ESTIMATED STARTUP TIME	DATE								
	HOUR								

LINE 5 TOTALS IN HOURS

INPUT PROD. FORECAST FOR MO.

TIME OPER. EFF. - MO-TO-DATE

TIME OPER. EFF. - 30 DAY AVG.

TIME OPER. EFF. FORECAST FOR MO.

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
*1	1	1	1	0	4	3	2	3	1	328.0

REMARKS: * Five thoria failures not included.

C - Resumed operation at 1811 hours concluding an outage for the removal of thoria failures.

5-14-65 (12-8)

C - Reactor shut down from 0230 hours to 0553 hours for the removal of a thoria failure from tube 3496.

GROUP 1

Excluded from automatic downgrading and declassification

RESTRICTED DATA

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ROUGH DRAFT
AFTER FILL-IN

ROUGH DRAFT
AFTER FILL-IN

REACTOR OPERATIONS DAILY REPORT

DATE 5-14-65

This document classified by

Long Richard

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1915	2070	1775		1930		4400	4400	7690	8800	16490
2. MAXIMUM POWER LEVEL - MW	1915	2000	1775		1930		4400	4400	7620	8800	16420
3. INPUT PRODUCTION - MWD	1915	1518	1775		1930		4400	4400	7138	8800	15938
4. OUTAGE HOURS	0	3.4	0		0		0	0	3.4	0	3.4
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD											LINE 5 TOTALS IN KWWD'S
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	12.9	12.4	12.1		13.0		11.5	11.0			INPUT PROD. FORECAST FOR MO.
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	94.5	88.1	90.3		94.5		91.8	91.7			TIME OPER. EFF. - MO-TO-DATE
8. REACTOR WATER FLOW RATE AT 2330- GPM $\pm$ 1000	89.7	100.9	86.5		90.1		207.5	206.5			TIME OPER. EFF. - 30 DAY AVG.
9. FACTOR LIMITING POWER LEVEL	B.O.	N.E.	T.A.I.		B.O.		E.A.L.	E.A.L.			TIME OPER. EFF. FORECAST FOR MO.
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.	12	N.		33		N.	35			
11. ESTIMATED STARTUP TIME	DATE										
	HOUR										
12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES	WATER LEAKS	SCRAMS	RECOVERIES	SCHEDULED OUTAGES	OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS				328.0
	NAT.	ENR.	TUBE		COMPLETED	REMAINING					

REMARKS:

C - Reactor down from 0230 hours to 0553 hours for the removal of a thorium failure from tube 3496.

RESTRICTED DATA

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GROUP 1

Excluded from automatic downgrading and declassification

ROUGH DRAFT
AFTER FILL-IN

ROUGH DRAFT
AFTER FILL-IN

REACTOR OPERATIONS DAILY REPORT

DATE 5/15/65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1915	0	1775		1930		4400	4400	5620	8800	14420
2. MAXIMUM POWER LEVEL - MW	1915	2160	1775		1930		4400	4400	7780	8800	16580
3. INPUT PRODUCTION - MWD	1915	2088	1775		1930		4400	4400	7708	8800	16508
4. OUTAGE HOURS	0	0	0		0		0	0	0	0	0
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD									LINE 5 TOTALS IN KWWD'S		
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	12.1	11.8	12.0		12.7		11.3	10.8	INPUT PROD. FORECAST FOR MO.		
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	93.7	93.6	90.1		94.3		91.7	91.6	TIME OPER. EFF. - MO-TO-DATE		
8. REACTOR WATER FLOW RATE AT 2330- GPM ÷ 1000	89.7	101.1	86.5		90.1		207.5	206.5	TIME OPER. EFF. - 30 DAY AVG.		
9. FACTOR LIMITING POWER LEVEL	B.O.	N.E.	T.A.I.		B.O.		E.A.I.	E.A.I.	TIME OPER. EFF. FORECAST FOR MO.		
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.	12	N.		33		N.	N.			
11. ESTIMATED STARTUP TIME											

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
										326.0

REMARKS:

ROUGH DRAFT
AFTER FILL-IN

ROUGH DRAFT
AFTER FILL-IN

REACTOR OPERATIONS DAILY REPORT

DATE 5/16/65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1915	0	1775		1930		4400	4400	5620	8800	14420
2. MAXIMUM POWER LEVEL - MW	1915	2160	1775		1930		4400	4400	7780	8800	16580
3. INPUT PRODUCTION - MWD	1915	525	1775		1930		4400	4400	6145	8800	14945
4. OUTAGE HOURS	0	18.3	0		0		0	0	18.3	0	18.3
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	+5921	-5888	+9243		+2220		+4665	-6694	+11.5	-2.0	+9.5
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	12.7	12.1	12.0		12.5		11.7	11.0	LINE 5 TOTALS IN KWWD'S		
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	94.5	14.0	90.0		94.0		91.9	91.9	174.4	214.5	388.9
8. REACTOR WATER FLOW RATE AT 2330- GPM ÷ 1000	89.7	37.0	86.3		90.2		207.5	206.5	84.6	79.0	82.7
9. FACTOR LIMITING POWER LEVEL	B.O.		T.A.I.		B.O.		E.A.L.	E.A.L.	88.3	88.8	88.5
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.		N.		31		N.	N.	TIME OPER. EFF. - 30 DAY AVG.		
11. ESTIMATED STARTUP TIME		5-17-65							77.6	82.4	79.2
		1600							INPUT PROD. FORECAST FOR MO.		
									TIME OPER. EFF. - MO-TO-DATE		
									TIME OPER. EFF. FORECAST FOR MO.		

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
	*1	2	1	0	4	3	2	3	1	321.0

REMARKS: * Seven thoria failures not included.

C - Reactor shut down at 0542 hours for the removal of a stuck I&E-E rupture in tube 3074. The rupture could not be removed using forces up to 6000 pounds. Charge-discharged 76 tubes of enriched metal. Removal of the rupture is in progress.

ROUGH DRAFT
AFTER FILL-IN

137

REACTOR OPERATIONS DAILY REPORT

This document classified by

Tony Prudil

DATE 5-17-65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0600 FOLLOWING DAY - MW	1915	0	1775		1930		4400	4400	5620	8800	14420
2. MAXIMUM POWER LEVEL - MW	1915	0	1775		1930		4400	4400	5620	8800	14420
3. INPUT PRODUCTION - MWD	1915	0	1775		1930		4400	4400	5620	8800	14420
4. OUTAGE HOURS	0	24.0	0		0		0	0	24.0	0	24.0
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	+6394	-7572	+10047		+2621		+5733	-5881	+11.5	-0.1	+11.4
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	12.9	12.2	12.2		12.7		11.9	11.1	174.4	214.5	388.9
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	94.6	13.9	90.2		94.3		92.2	91.8	84.0	80.3	82.8
8. REACTOR WATER FLOW RATE AT 2330- GPM $\pm$ 1000	89.9	31.6	86.3		90.1		207.5	206.5	87.7	88.8	88.1
9. FACTOR LIMITING POWER LEVEL	B.O.		T.A.I.		B.O.		E.A.L.	E.A.L.	77.6	82.4	79.2
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.		N.		30		N.	20			
11. ESTIMATED STARTUP TIME		5-19-65									
		1200									

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	DAT.	EM.	TIME	V.S.			COMPLETED	REMAINING		
	#1	2	1	0	4	3	2	3	2	305.0

REMARKS: * Seven thoria failures not included.

C - Reactor continuing down for the removal of a stuck enriched rupture from tube 3074. Removal attempts using pressures up to 14,000 pounds have been unsuccessful. The downstream dummies were flushed from the tube. The removal of downstream tube ribs is in progress.

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ROUGH DRAFT
AFTER FILL-IN

ROUGH DRAFT
AFTER FILL-IN

REACTOR OPERATIONS DAILY REPORT

DATE 5/18/65

This document classified by

Ray J. [Signature]

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1915	0	0		0		4400	4400	1915	8800	10715
2. MAXIMUM POWER LEVEL - MW	1915	0	1775		1930		4400	4400	5620	8800	14420
3. INPUT PRODUCTION - MWD	1915	0	1762		1159		4400	4400	4836	8800	13636
4. OUTAGE HOURS	0	24.0	0.1		9.6		0	0	33.7	0	33.7
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	+6867	-9256	+10838		+2251		+6800	-5068	+10.7	+1.8	+12.5
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	12.7	12.0	12.1		14.3		11.6	11.0	LINE 5 TOTALS IN KWWD'S		
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	94.3	13.7	90.0		17.1		92.0	91.7	INPUT PROD. FORECAST FOR MO.		
8. REACTOR WATER FLOW RATE AT 2330- GPM ÷ 1000	89.7	31.2	86.3		30.4		207.5	206.5	174.4	214.5	388.9
9. FACTOR LIMITING POWER LEVEL	B.O.						E.A.L.	E.A.L.	TIME OPER. EFF. - MO-TO-DATE		
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.						N.	12	82.9	81.4	82.4
11. ESTIMATED STARTUP TIME		5-19-65 1400	5-31-65 0001		33 5-20-65 0200				86.6	88.8	87.3
									77.6	82.4	79.2
									TIME OPER. EFF. - 30 DAY AVG.		
									TIME OPER. EFF. FORECAST FOR MO.		

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
	*1	2	1	0	5	3	3	2	2	303.0

REMARKS: * Seven thoria failures not included.

C - The stuck enriched rupture was removed from tube 3074 using 5,700 pounds pressure after removing downstream tube ribs.

D - Reactor shut down at 2355 hours for scheduled charge-discharge and maintenance.

F - Reactor scrambled at 1455 hours by an unexplained Panellit trip on row 9.

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ROUGH DRAFT
AFTER FILL-IN

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Tommy Fendall

REACTOR OPERATIONS DAILY REPORT

DATE 5-19-65

	S	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1915	1605	0		0		0	4400	3520	4400	7920
2. MAXIMUM POWER LEVEL - MW	1915	1250	0		0		4400	4400	3165	8800	11965
3. INPUT PRODUCTION - MWD	1915	271	0		0		4369	4400	2186	8769	10955
4. OUTAGE HOURS	0	15.7	24.0		24.0		0	0	63.7	0	63.7
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	+7340	-10669	+9867		+722		+7837	-4255	+7.3	+3.6	+10.9
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	12.4	12.0	12.8		14.8		11.3	10.9	174.4	214.5	388.9
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	94.2	58.0	16.9		17.9		91.8	91.4	80.4	82.4	81.0
8. REACTOR WATER FLOW RATE AT 2330- GPM ÷ 1000	89.5	100.0	7.4		6.8		207.5	206.5	84.4	88.8	85.9
9. FACTOR LIMITING POWER LEVEL	BO	NE					EAL	EAL	TIME OPER. EFF. - MO-TO-DATE	TIME OPER. EFF. - 30 DAY AVG.	
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N	46					N	N	77.6	82.4	79.2
11. ESTIMATED STARTUP TIME	DATE		5-31-65		5-20-65						
	HOUR		0001		0900						

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
	*1	2	1	2	5	3	4	1	2	270.0

REMARKS: *Seven thoria failures not included.

C Reactor resumed operation at 1542 hours concluding a rupture outage.

D Reactor continuing down for scheduled charge-discharge and maintenance work.

F Reactor removed tubes 0993 and 0678 due to rear Van Stone leaks. Channels left as air channels.

Start-up preparation in progress.

(12-8) 5-20-65: KE Reactor shut down at 0001 hours for scheduled charge-discharge and maintenance.

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ROUGH DRAFT

AFTER FILL-IN

ROUGH DRAFT
AFTER FILL-IN

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REACTOR OPERATIONS DAILY REPORT

DATE 5-20-65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	0	2060	0		1470		0	4400	3530	4400	7930
2. MAXIMUM POWER LEVEL - MW	1915	1955	0		1275		0	4400	5145	4400	9545
3. INPUT PRODUCTION - MWD	1826	1701	0		455		0	4400	3982	4400	8382
4. OUTAGE HOURS	1.1	0	24.0		9.7		24.0	0	34.8	24.0	58.8
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	+7724	-10652	+8896		-352		+4505	-3442	+5.7	+1.0	+6.7
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	12.6	12.2	13.1		12.7		12.8	10.6			
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	19.0	85.8	18.0		65.8		91.7				
8. REACTOR WATER FLOW RATE AT 2330- GPM $\pm$ 1000	87.5	100.9	5.8		89.6		18.4	206.5	79.5	80.7	79.9
9. FACTOR LIMITING POWER LEVEL		NE			NE			EAL			
10. DAILY ABNORMAL WATER COLLECTION - GALS.		378			N			N	83.2	87.2	84.5
11. ESTIMATED STARTUP TIME	5-22-65 1600		5-31-65 0001				5-26-65 0700		77.6	82.4	79.2

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS		RECOVERIES		SCHEDULED OUTAGES		OTHER OUTAGES		DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING					
	*3	2	1	2	5	3	4	1	2				245.0

REMARKS: * Seven thoria failures not included.

B - Reactor scrambled at 2253 hours due to a failed I&E natural metal fuel element in tube 3962. An I&E natural metal failure was also removed from tube 0977.

D - Reactor continuing down for scheduled charge-discharge and maintenance. Repairs to the crossover line and Omega seals are in progress.

KE - Reactor continuing down for scheduled charge-discharge and maintenance. The replacement of mattress plates was essentially completed and charge-discharge is in progress.

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REACTOR OPERATIONS DAILY REPORT

DATE 5/21/65

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Don Dandil

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0600 FOLLOWING DAY - MW	0	2150	0		1675		0	4400	3825	4400	8225
2. MAXIMUM POWER LEVEL - MW	0	2140	0		1620		0	4400	3760	4400	8160
3. INPUT PRODUCTION - MWD	0	2079	0		1512		0	4400	3591	4400	7991
4. OUTAGE HOURS	24.0	0	24.0		0		24.0	0	48.0	24.0	72.0
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD									LINE 5 TOTALS IN KWWD'S		
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	14.6	12.4	13.9		12.7		13.0	11.2	INPUT PROB. FORECAST FOR MO.		
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	22.5	93.3	19.0		81.0		C.U.	92.0	TIME OPER. EFF. - MO-TO-DATE		
8. REACTOR WATER FLOW RATE AT 2330- GPM $\pm$ 1000	7.6	101.3	3.4		89.8		18.1	206.5	TIME OPER. EFF. - 30 DAY AVG.		
9. FACTOR LIMITING POWER LEVEL		N.E.			N.E.			E.A.L.	TIME OPER. EFF. FORECAST FOR MO.		
10. DAILY ABNORMAL WATER COLLECTION - GALS.		107			18			N.			
11. ESTIMATED STARTUP TIME	DATE										
	HOOR										
12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS	
	HAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		221.0	

REMARKS:

B - The I&E natural metal rupture was removed from tube 3962. Inspection of the metal discharged from tube 0977 (discharged due to a suspected rupture) failed to confirm the presence of a rupture.

D - Reactor continuing down on schedule. Work on the crossover line, riser and omega seals is continuing.

KE - Reactor continuing down on schedule. Charge-discharge is in progress.

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ROUGH DRAFT
AFTER FILL-IN

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ROUGH DRAFT
AFTER FILL-IN

REACTOR OPERATIONS DAILY REPORT

DATE 5/22/65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	750	2165	0		1725		0	4400	4640	4400	9040
2. MAXIMUM POWER LEVEL - MW	0	2165	0		1685		0	4400	3850	4400	8250
3. INPUT PRODUCTION - MWD	0	2156	0		1673		0	4400	3829	4400	8229
4. OUTAGE HOURS	24.0	0	24.0		0		24.0	0	48.0	24.0	72.0
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD									LINE 5 TOTALS IN KWWD'S		
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	13.0	12.6	14.0		12.8		13.0	11.3	INPUT PROD. FORECAST FOR MO.		
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	16.0	94.4	19.0		84.1		C.U.	92.0	TIME OPER. EFF. - MO-TO-DATE		
8. REACTOR WATER FLOW RATE AT 2330- GPM + 1000	84.0	101.1	4.6		89.9		18.1	206.5	TIME OPER. EFF. - 30 DAY AVE.		
9. FACTOR LIMITING POWER LEVEL		B.O.			N.E.			E.A.I.	TIME OPER. EFF. FORECAST FOR MO.		
10. DAILY ABNORMAL WATER COLLECTION - GALS.		98			19			45			
11. ESTIMATED STARTUP TIME											

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
										240.0

REMARKS:

B - A small charge-discharge is in progress following rupture removal.
D - Work on the crossover line and riser is continuing. Started the replacement of rear face nozzles.
KE - Scheduled charge-discharge is in progress.

ROUGH DRAFT
AFTER FILL-IN

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ROUGH DRAFT
AFTER FILL-IN

REACTOR OPERATIONS DAILY REPORT

DATE 5/23/65

	B	C	D	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1500	2165	0	1810		0	4400	5475	4400	9875
2. MAXIMUM POWER LEVEL - MW	1410	2165	0	1765		0	4400	5340	4400	9740
3. INPUT PRODUCTION - MWD	925	2165	0	1739		0	4400	4829	4400	9229
4. OUTAGE HOURS	5.7	0	24.0	0		24.0	0	29.7	24.0	53.7
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	+4323	-9304	+5983	-15		-5492	-1003	+1.0	-6.5	-5.5
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	12.8	12.3	14.0	12.7		13.0	11.3	INPUT PROD. FORECAST FOR MO.		
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	72.0	94.2	18.8	87.2		C.U.	91.9	174.4	214.5	388.9
8. REACTOR WATER FLOW RATE AT 2330- GPM + 1000	89.5	101.4	4.5	89.9		18.1	206.5	76.5	76.7	76.6
9. FACTOR LIMITING POWER LEVEL	N.E.	B.O.		N.E.			E.A.I.	78.8	82.2	79.9
10. DAILY ABNORMAL WATER COLLECTION - GALS.		62		N.			N.	TIME OPER. EFF. FORECAST FOR MO.		
11. ESTIMATED STARTUP TIME			5-31-65 0001			5-25-65 1600		77.6	82.4	79.2

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	EMR.	TUBE	V.S.			COMPLETED	REMAINING		
	*2	2	1	2	5	3	4	1	2	241.0

REMARKS: * Seven thorium failures not included.

B - Resumed operation at 0539 hours concluding a rupture outage.

D - Crossover line and riser work is continuing. The replacement of rear face nozzles on seven rows was completed.

KE - Scheduled charge-discharge is continuing.

ROUGH DRAFT
AFTER FILL-IN

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ROUGH DRAFT
AFTER FILL-IN

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REACTOR OPERATIONS DAILY REPORT

DATE 5/24/65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	0	2165	0		1815		0	4400	3980	4400	8380
2. MAXIMUM POWER LEVEL - MW	1500	2165	0		1815		0	4400	5480	4400	9880
3. INPUT PRODUCTION - MWD	483	2165	0		1802		0	4400	4420	4400	8850
4. OUTAGE HOURS	16.0	0	24.0		0		24.0	0	40.0	24.0	64.0
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	+483	-8823	+5012		+258		-8824	-190	-0.2	-9.0	-9.2
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	14.8	12.8	14.1		12.9		13.0	11.5	174.4	214.5	388.9
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	20.8	94.7	19.0		89.8		C.U.	92.1	75.7	75.6	75.7
8. REACTOR WATER FLOW RATE AT 2330- GPM $\pm$ 1050	7.1	101.2	4.5		90.0		19.2	206.5	77.4	80.5	78.4
9. FACTOR LIMITING POWER LEVEL		B.O.			N.E.			E.A.L.	77.6	82.4	79.2
10. DAILY ABNORMAL WATER COLLECTION - GALS.	5-25-65 1800	44	5-31-65 0001		25		5-25-65 1600	10			
11. ESTIMATED STARTUP TIME	DATE HOUR										

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
	*3	2	2	2	5	3	4	0	2	263.0

REMARKS: * Seven thoria failures not included.

3 - Reactor shut down at 0800 hours for the removal of a stuck I&E natural metal bumper rupture from tube 1077. The rupture was removed using 6,000 pounds pressure. The leaking tube was removed and replaced.

10 - Reactor rear riser crossover line repairs continuing.

13 - Reactor continuing scheduled charge-discharge and maintenance.

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ROUGH DRAFT
AFTER FILL-IN

ROUGH DRAFT
AFTER FILL-IN

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REACTOR OPERATIONS DAILY REPORT

DATE 5/25/65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1300	0	0		1850		4400	4400	3150	8800	11950
2. MAXIMUM POWER LEVEL - MW	1100	2165	0		1850		4050	4400	5115	8450	13565
3. INPUT PRODUCTION - MWD	157	2164	0		1820		1427	4400	4141	5827	9968
4. OUTAGE HOURS	18.7	0	24.0		0		12.5	0	42.7	12.5	55.2
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	+2079	-8303	+4041		+549		-10729	+623	-1.6	-10.1	-11.7
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	13.5	13.1	14.3		13.2		12.1	11.8	174.4	214.5	388.9
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	52.5	94.8	18.0		91.6		86.0	92.6	TIME OPER. EFF. - MO-TO-DATE		
8. REACTOR WATER FLOW RATE AT 2330- GPM ÷ 1000	89.5	101.3	4.8		89.6		205.0	206.5	74.9	75.6	75.1
9. FACTOR LIMITING POWER LEVEL	N.E.	B.O.			N.E.		N.E.	E.A.L.	75.9	79.6	77.1
10. DAILY ABNORMAL WATER COLLECTION - GALS.		29			21			N.	TIME OPER. EFF. - 30 DAY AVG.		
11. ESTIMATED STARTUP TIME		5-27-65 1400	5-31-65 0001						77.6	82.4	79.2

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
*3		3	2	2	5	3	4	0	2	293.0

REMARKS: *Seven thoria failures not included.

B - Reactor resumed operation at 1845 hours concluding a rupture removal.

D - Reactor rear risers and crossover repairs completed. Charge-discharge is in progress.

KE - Reactor resumed operation at 1228 hours concluding a scheduled charge-discharge and maintenance.

5/26/65 (12-8)

C - Reactor manually scrambled at 0514 hours for the removal of an I&E enriched metal rupture from tube 2360.

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ROUGH DRAFT

AFTER FILL-IN

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OT P. P. P.

REACTOR OPERATIONS DAILY REPORT

DATE 5/26/65

ROUGH DRAFT

AFTER FILL-IN

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	0	0	0		1860		4400	4400	1860	8800	10660
2. MAXIMUM POWER LEVEL - MW	1650	2160	0		1860		4400	4400	5670	8800	14470
3. INPUT PRODUCTION - MWD	1336	494	0		1852		4400	4400	3682	8749	12431
4. OUTAGE HOURS	0.7	18.8	24.0		0		0	0	43.5	0	43.5
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	+1973	-9493	+3070		+872		-9713	+1436	-3.6	-8.3	-11.9
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	13.8	13.0	14.3		13.6		12.4	12.0	174.4	214.5	388.9
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	20.0	15.0	17.0		92.2		92.0	92.7	74.1	76.5	74.9
8. REACTOR WATER FLOW RATE AT 2330- GPM ± 1000	88.1	20.2	4.8		89.9		208.0	206.5	74.4	79.6	76.1
9. FACTOR LIMITING POWER LEVEL					N.E.		E.A.L.	E.A.L.	74.4	79.6	76.1
10. DAILY ABNORMAL WATER COLLECTION - GALS.					19		N	30	77.6	82.4	79.2
11. ESTIMATED STARTUP TIME	5-29-65 1600	5-27-65 1400	5-31-65 0001								

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS		RECOVERIES		SCHEDULED OUTAGES		OTHER OUTAGES		DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.					COMPLETED	REMAINING			
	*3	3	2	6	6		3		5	0	2		276.0

REMARKS: * Seven thoria failures not included.

B - Reactor scrambled at 2317 hours due to an unexplained Panellit trip on tube 1079. Charge-discharge scheduled for 6/6/65 will be completed.

C - Reactor manually scrambled at 0514 hours for the removal of an I&E enriched metal rupture from tube 2360 with the charging machine. Miscellaneous maintenance work is in progress.

D - Reactor continuing charge -discharge.

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ROUGH DRAFT

AFTER FILL-IN

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AFTER FILL-IN

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REACTOR OPERATIONS DAILY REPORT

DATE

5/27/65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	0	1900	0		1880		4400	4400	3780	8800	12580
2. MAXIMUM POWER LEVEL - MW	0	1800	0		1880		4400	4400	3680	8800	12480
3. INPUT PRODUCTION - MWD	0	467	0		1870		4400	4400	2337	8800	11137
4. OUTAGE HOURS	24.0	15.7	24.0		0		0	0	63.7	0	63.7
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	+531	-10710	+2099		+1213		-8645	+2249	-6.9	-6.4	-13.3
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	15.8	13.6	14.3		13.6		12.8	12.1	174.4	214.5	388.9
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	20.0	82.7	16.0		93.6		92.0	93.0	72.7	77.4	74.2
8. REACTOR WATER FLOW RATE AT 2330- GPM ÷ 1000	8.5	100.7	6.4		89.9		208.0	206.5	72.9	79.6	75.1
9. FACTOR LIMITING POWER LEVEL		N.E.			B.O.		E.A.L.	E.A.L.	TIME OPER. EFF. - 30 DAY AVG.		
10. DAILY ABNORMAL WATER COLLECTION - GALS.		10			14		N.	N.	TIME OPER. EFF. FORECAST FOR MO.		
11. ESTIMATED STARTUP TIME	5-29-65 1600		5-31-65 0001						77.6	82.4	79.2

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES	WATER LEAKS	SCRAMS	RECOVERIES	SCHEDULED OUTAGES	OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	TUBE	V.S.		COMPLETED	REMAINING	
#3		2	6	3	5	0	272.0

REMARKS: *Seven thoria failures not included.

B - Scheduled charge-discharge. The Panellit trip (initially reported as unexplained) was caused by a faulty spline seal.

C - Reactor resumed operation at 1540 hours concluding rupture removal.

D - Completed charge-discharge including thoria. Replacement of five process tubes (four due to Van Stone leaks) in progress.

RESTRICTED DATA

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GROUP 1

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ROUGH DRAFT
AFTER FILL-IN

ROUGH DRAFT

AFTER FILL-IN

This document classified by

REACTOR OPERATIONS DAILY REPORT

DATE 5/28/65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	0	2100	0		1880		4400	4400	3980	8800	12780
2. MAXIMUM POWER LEVEL - MW	0	2050	0		1880		4400	4400	3930	8800	12730
3. INPUT PRODUCTION - MWD	0	1942	0		1880		4400	4400	3822	8800	12622
4. OUTAGE HOURS	24.0	0	24.0		0		0	0	48.0	0	48.0
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD									LINE 5 TOTALS IN KWWD'S		
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	16.1	14.0	15.6		13.9		13.0	12.3	INPUT PROD. FORECAST FOR MO.		
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	17.7	91.2	17.0		93.7		92.1	93.3	TIME OPER. EFF. - MO-TO-DATE		
8. REACTOR WATER FLOW RATE AT 2330- GPM + 1000	8.5	101.0	2.5		89.8		208.0	206.5	TIME OPER. EFF. - 30 DAY AVG.		
9. FACTOR LIMITING POWER LEVEL		N.E.			B.O.		E.A.L.	E.A.L.	TIME OPER. EFF. FORECAST FOR MO.		
10. DAILY ABNORMAL WATER COLLECTION - GALS.		38			15		N.	N.			
11. ESTIMATED STARTUP TIME											

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
										272.0

REMARKS:

B - Continuing down for scheduled charge-discharge following a Panellit trip.

D - Continuing down for scheduled charge-discharge and maintenance.

RESTRICTED DATA

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GROUP 1

Excluded from automatic downgrading and declassification

ROUGH DRAFT

AFTER FILL-IN

SECRET - **ROUGH DRAFT**
AFTER FILL-IN

REACTOR OPERATIONS DAILY REPORT

DATE 5/29/65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1600	2130	0		1880		4400	4400	5610	8800	14410
2. MAXIMUM POWER LEVEL - MW	1375	2130	0		1880		4400	4400	5385	8800	14185
3. INPUT PRODUCTION - MWD	388	2110	0		1880		4400	4400	4378	8800	13178
4. OUTAGE HOURS	15.2	0	24.0		0		0	0	39.2	0	39.2
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD									LINE 5 TOTALS IN KWWD'S		
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	14.2	13.6	15.3		14.0		12.9	12.4	INPUT PROD. FORECAST FOR MO.		
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	71.8	94.3	16.0		93.6		92.3	93.2	TIME OPER. EFF. - MO-TO-DATE		
8. REACTOR WATER FLOW RATE AT 2330- GPM ÷ 1000	89.8	101.1	4.6		89.8		208.0	206.5	TIME OPER. EFF. - 30 DAY AVG.		
9. FACTOR LIMITING POWER LEVEL	N.E.	B.O.			B.O.		E.A.L.	E.A.L.	TIME OPER. EFF. FORECAST FOR MO.		
10. DAILY ABNORMAL WATER COLLECTION - GALS.		14			N.		N.	N.			
11. ESTIMATED STARTUP TIME	DATE										
	HOUR										

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
										313.0

REMARKS:
B - Resumed operation at 1514 hours concluding scheduled work.
D - Continuing down for scheduled charge-discharge; also replaced nine process tubes.

SECRET - **ROUGH DRAFT**
AFTER FILL-IN

ROUGH DRAFT

AFTER FILL-IN

REACTOR OPERATIONS DAILY REPORT

DATE 5/30/65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1780	2130	0		1880		4400	4400	5790	8800	14590
2. MAXIMUM POWER LEVEL - MW	1760	2130	1400		1880		4400	4400	7170	8800	15970
3. INPUT PRODUCTION - MWD	1631	2130	255		1880		4400	4400	5896	8800	14696
4. OUTAGE HOURS	0	0	16.7		0		0	0	16.7	0	16.7
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD									LINE 5 TOTALS IN KWWD'S		
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	14.1	13.5	13.4		14.0		12.9	12.4	INPUT PROD. FORECAST FOR MO.		
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	88.5	94.3	69.0		93.7		92.2	93.3	TIME OPER. EFF. - MO-TO-DATE		
8. REACTOR WATER FLOW RATE AT 2330- GPM ± 1000	90.3	100.6	89.5		89.8		207.5	206.5	TIME OPER. EFF. - 30 DAY AVG.		
9. FACTOR LIMITING POWER LEVEL	N.E.	B.O.	N.E.		B.O.		E.A.L.	E.A.L.	TIME OPER. EFF. FORECAST FOR MO.		
10. DAILY ABNORMAL WATER COLLECTION - GALS.	10.5	17			16		N.	40			
11. ESTIMATED STARTUP TIME	DATE										
	HOUR										

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
										322.0

REMARKS:

D - Resumed operation at 1445 hours concluding a scheduled outage.
The reactor was down from 1920 hours to 2120 hours to discharge the metal from tube 1973 which was 20° hotter than surrounding tubes and the metal from tube 1176 which had a pressure increase of 25 p.s.i.

ROUGH DRAFT

AFTER FILL-IN

ROUGH DRAFT

AFTER FILL-IN

REACTOR OPERATIONS DAILY REPORT

DATE 5/31/65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1790	2130	1750		1880		4400	0	7550	4400	11950
2. MAXIMUM POWER LEVEL - MW	1790	2130	1600		1880		4400	4400	7400	8800	16200
3. INPUT PRODUCTION - MWD	1781	2130	766		1880		4400	4354	6557	8754	15311
4. OUTAGE HOURS	0	0	10.3		0		0	0	10.3	0	10.3
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	-1437	-9130	-763		+2616		-4374	+5429	-8.7	+1.1	-7.6
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	14.4	13.6	13.4		14.0		13.0	12.5	174.4	214.5	388.9
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	90.2	94.6	80.6		93.7		92.3	93.4	72.3	80.3	75.0
8. REACTOR WATER FLOW RATE AT 2330- GPM + 1000	90.3	100.8	90.2		89.8		207.5	206.5	71.9	79.6	74.5
9. FACTOR LIMITING POWER LEVEL	N.E.	B.O.	N.E.		B.O.		E.A.L.	E.A.L.	77.6	82.4	79.2
10. DAILY ABNORMAL WATER COLLECTION - GALS.	11	N.	205		22		N.	N.	TIME OPER. EFF. - 30 DAY AVG.	TIME OPER. EFF. - 30 DAY AVG.	TIME OPER. EFF. - 30 DAY AVG.
11. ESTIMATED STARTUP TIME								6-6-65	TIME OPER. EFF. - 30 DAY AVG.	TIME OPER. EFF. - 30 DAY AVG.	TIME OPER. EFF. - 30 DAY AVG.

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS		RECOVERIES		SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	EMR.	TUBE	V.S.					COMPLETED	REMAINING		
	*3	3	2	6	6	3			5	0	4	322.0

REMARKS: * Seven thoria failures not included

D - Reactor down from 0140 hours to 1200 hours to discharge the metal from tube (2378 which was 14 degrees hotter than the surrounding tubes.

6/1/65- (12-8)

KW - Reactor shut down at 0001 hours for scheduled charge-discharge and maintenance.

ROUGH DRAFT

AFTER FILL-IN

ROUGH DRAFT
AFTER FILL-IN

REACTOR OPERATIONS DAILY REPORT

DATE 6-1-65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1800	2130	1905		1870		4400	0	7705	4400	12105
2. MAXIMUM POWER LEVEL - MW	1800	2130	1900		1880		4400	0	7710	4400	12110
3. INPUT PRODUCTION - MWD	1796	2130	1792		1880		4400	0	7598	4400	11998
4. OUTAGE HOURS	0	0	0		0		0	24.0			
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	+556	+937	+825		+180		+637	-3307	+2.5	-2.7	-0.2
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	14.5	13.9	13.7		14.0		13.1	14.0	144.5	212.1	356.6
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	90.8	94.8	93.5		94.1		92.5	C.U.	100.0	50.0	83.3
8. REACTOR WATER FLOW RATE AT 2330- GPM $\pm$ 1000	90.0	100.8	90.0		89.9		207.5	15.2	71.9	78.0	73.9
9. FACTOR LIMITING POWER LEVEL	T.A.I.	B.C.	N.F.		B.O.		E.A.I.		TIME OPER. EFF. - 30 DAY AVG.		
10. DAILY ABNORMAL WATER COLLECTION - GALS.	15	N.	138		12		N.		TIME OPER. EFF. FORECAST FOR MO.		
11. ESTIMATED STARTUP TIME								6-6-65	71.6	84.9	76.0
								1600			

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
	0	0	0	0	0	0	1	2	0	272.0

REMARKS:

KW Reactor shut down at 0001 hours for scheduled charge discharge and maintenance.

RESTRICTED DATA

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GROUP 1

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John P. ...

ROUGH DRAFT
AFTER FILL-IN

ROUGH DRAFT

AFTER FILL-IN

REACTOR OPERATIONS DAILY REPORT

DATE 6/2/65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1830	2130	1910		1840		4400	0	7710	4400	12110
2. MAXIMUM POWER LEVEL - MW	1820	2130	1910		1870		4400	0	7730	4400	12130
3. INPUT PRODUCTION - MWD	1808	2130	1905		1863		4400	0	7706	4400	12106
4. OUTAGE HOURS	0	0	0		0		0	24.0	0	24.0	24.0
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	+1124	+1874	+1763		+343		+1273	-6614	5.1	-5.3	-0.2
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	14.6	14.0	13.8		14.2		13.2	14.0	144.5	212.1	356.6
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	91.7	94.9	94.0		92.5		92.6	C.U.	100.0	50.0	83.3
8. REACTOR WATER FLOW RATE AT 2330- GPM + 1000	90.0	101.2	90.0		89.7		208.0	15.0	TIME OPER. EFF. - MO-TO-DATE	TIME OPER. EFF. - 30 DAY AVG.	
9. FACTOR LIMITING POWER LEVEL	T.A.I.	B.O.	B.O.		T.P.		E.A.I.		TIME OPER. EFF. FORECAST FOR MO.		
10. DAILY ABNORMAL WATER COLLECTION - GALS.	17	N.	58		19		N.	6-6-65	71.6	84.9	76.0
11. ESTIMATED STARTUP TIME								1600			

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES COMPLETED	OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.					
	0	0	0	0	0	0	1	0	270.0

REMARKS:
KW - Continuing down for scheduled charge-discharge and maintenance.

ROUGH DRAFT

AFTER FILL-IN

ROUGH DRAFT
AFTER FILL-IN

This document classified by

REACTOR OPERATIONS DAILY REPORT

DATE 6-3-65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1860	2130	1910		1835		4400	0	7735	4400	12135
2. MAXIMUM POWER LEVEL - MW	1860	2130	1910		1850		4400	0	7750	4400	12150
3. INPUT PRODUCTION - MWD	1845	2130	1910		1839		4400	0	7724	4400	12124
4. OUTAGE HOURS	0	0	0		0		0	24.0	0	24.0	24.0
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	+1729	+2810	+2706		+482		+1910	-9921	+7.7	-8.0	-0.3
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	14.6	13.9	13.5		14.0		13.2	14.5			
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	93.6	94.9	94.0		92.0		92.5	C.U.			
8. REACTOR WATER FLOW RATE AT 2330- GPM ± 1000	90.0	101.3	90.0		89.6		207.5	15.0	100.0	50.0	83.3
9. FACTOR LIMITING POWER LEVEL	T.A.I.	B.O.	B.O.		T.P.		E.A.L.		74.7	76.4	75.3
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.	N.	67		14		N.				
11. ESTIMATED STARTUP TIME									71.6	84.9	76.0

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS	
	MAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING			
	0	0	0	0	0	0	1	2	0	270.0	

REMARKS:

KE/- Reactor continuing down for scheduled charge-discharge and maintenance. Installed two autoclaved zirconium tubes and installed flat HCR in No. 2 channel. Charge-discharge including thorium is continuing.

RESTRICTED DATA

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GROUP 1

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ROUGH DRAFT
AFTER FILL-IN

ROUGH DRAFT
AFTER FILL-IN

REACTOR OPERATIONS DAILY REPORT

DATE

6/4/65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1870	2125	1910		1835		4400	0	7740	4400	12140
2. MAXIMUM POWER LEVEL - MW	1870	2130	1910		1835		4400	0	7745	4400	12145
3. INPUT PRODUCTION - MWD	1865	2129	1910		1835		4400	0	7739	4400	12139
4. OUTAGE HOURS	0	0	0		0		0	24.0	0	24.0	24.0
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD									LINE 5 TOTALS IN KWWD'S		
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	14.8	14.1	13.9		14.3		13.5	14.5	INPUT PROD. FORECAST FOR MO.		
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	94.4	94.8	94.1		92.2		92.9	C.U.	TIME OPER. EFF. - MO-TO-DATE		
8. REACTOR WATER FLOW RATE AT 2330- GPM ± 1000	90.0	101.2	90.0		89.9		208.0	15.0	TIME OPER. EFF. - 30 DAY AVG.		
9. FACTOR LIMITING POWER LEVEL	T.A.I.	B.O.	B.O.		T.P.		E.A.L.		TIME OPER. EFF. FORECAST FOR MO.		
10. DAILY ABNORMAL WATER COLLECTION - GALS.	10	N.	38		N.		N.				
11. ESTIMATED STARTUP TIME											

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
										325

REMARKS:

KW - Reactor continuing down on scheduled outage. Completed charge-discharge and replacement of 129 RTDs.

RESTRICTED DATA

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GROUP 1

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ROUGH DRAFT
AFTER FILL-IN

ROUGH DRAFT
AFTER FILL-IN

REACTOR OPERATIONS DAILY REPORT

DATE 6/5/65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1860	2120	1910		1835		4400	0	7725	4400	12125
2. MAXIMUM POWER LEVEL - MW	1870	2125	1910		1835		4400	400	7740	4800	12540
3. INPUT PRODUCTION - MWD	1866	2124	1910		1835		4400	2	7735	4402	12137
4. OUTAGE HOURS	0	0	0		0		0	23.1	0	23.1	23.1
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD									LINE 5 TOTALS IN KWWD'S		
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	15.0	14.4	14.1		14.6		13.7	13.1	INPUT PROD. FORECAST FOR MO.		
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	93.9	94.8	94.5		92.5		93.1	14.8	TIME OPER. EFF. - MO-TO-DATE		
8. REACTOR WATER FLOW RATE AT 2330- GPM $\pm$ 1000	89.9	101.0	90.0		89.8		208.0	195.0	TIME OPER. EFF. - 30 DAY AVG.		
9. FACTOR LIMITING POWER LEVEL	T.A.I.	B.O.	B.O.		T.P.		E.A.L.	N.E.	TIME OPER. EFF. FORECAST FOR MO.		
10. DAILY ABNORMAL WATER COLLECTION - GALS.	15	N.	36		11		N.				
11. ESTIMATED STARTUP TIME	DATE										
	HOUR										

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	HAT.	EMR.	TUBE	Y.S.			COMPLETED	REMAINING		
										315.0

REMARKS:

KW - Resumed operation at 2233 hours concluding a scheduled outage. Reactor down from 2307 hours to 2342 hours due to an unexplained Panellit trip.

ROUGH DRAFT
AFTER FILL-IN

ROUGH DRAFT
AFTER FILL-IN

REACTOR OPERATIONS DAILY REPORT

DATE 6/6/65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1860	2115	1910		1825		4400	4000	7710	8400	16110
2. MAXIMUM POWER LEVEL - MW	1860	2120	1910		1835		4400	3800	7725	8200	15925
3. INPUT PRODUCTION - MWD	1860	2119	1910		1833		4400	1877	7722	6277	13999
4. OUTAGE HOURS	0	0	0		0		0	4.5	0	4.5	4.5
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	+3600	+5602	+5535		+585		+3820	-17963	+15.6	-14.1	+1.5
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	15.1	14.5	14.2		14.7		13.9	13.2	144.5	212.1	356.6
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	94.0	94.8	94.8		92.0		93.2	82.4	100.0	57.0	85.7
8. REACTOR WATER FLOW RATE AT 2330- GPM $\pm$ 1000	90.2	101.1	90.0		89.6		208.0	207.0	74.7	77.9	75.8
9. FACTOR LIMITING POWER LEVEL	T.A.I.	B.O.	B.O.		T.P.		E.A.L.	N.E.	TIME OPER. EFF. - MO-TO-DATE	TIME OPER. EFF. FORECAST FOR MO.	
10. DAILY ABNORMAL WATER COLLECTION - GALS.	58.0	N.	31		16		N.		71.6	84.9	76.0
11. ESTIMATED STARTUP TIME	DATE	DATE	DATE								
	HOUR	HOUR	HOUR								
12. COMBINED REACTORS MONTH-TO-DATE											
	RUPTURES	WATER LEAKS	SCRAMS	RECOVERIES	SCHEDULED OUTAGES	OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS				
	NAT.	ENR.	TUBE	V.S.	COMPLETED	REMAINING					
	0	0	0	0	6	2	327.0				

REMARKS:

KW - Five unexplained Panellit trips were experienced

as follows:

1	0009 hrs.	Down	0042 hrs.	Up
2	0128 hrs.		0157 hrs.	
3	0336 hrs.		0558 hrs.	
4	0729 hrs.		0758 hrs.	
5	0914 hrs.		0951 hrs.	

ROUGH DRAFT
AFTER FILL-IN

ROUGH DRAFT
AFTER FILL-IN

REACTOR OPERATIONS DAILY REPORT

This document is classified by

DATE 6-7-65

Ray C. Rindick

	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER/LEVEL AT 0800 FOLLOWING DAY - MW	1860	2115	1905	1820		4400	4250	7700	8650	16350
2. MAXIMUM POWER LEVEL - MW	1860	2115	1910	1825		4400	4200	7710	8600	16310
3. INPUT PRODUCTION - MWD	1860	2115	1910	1824		4400	4040	7709	8440	16149
4. OUTAGE HOURS	0	0	0	0		0	0	0	0	0
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	+4220	+6524	+6478	+1009		+4457	-17230	+18.2	-12.8	+5.4
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	15.2	14.4	14.1	14.8		13.7	13.1			
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	94.0	94.8	94.5	92.0		93.1	89.5			
8. REACTOR WATER FLOW RATE AT 2330- GPM $\div$ 1000	90.2	101.1	90.0	89.9		208.0	208.0	100.0	63.2	87.7
9. FACTOR LIMITING POWER LEVEL	TAI	BO	BO	TP		EAL	NE	75.5	77.9	76.3
10. DAILY ABNORMAL WATER COLLECTION - GALS.	67	N	16	10		N	N			
11. ESTIMATED STARTUP TIME								71.6	84.9	76.0

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
	0	0	0	0	6	6	1	2	0	330.0

REMARKS:

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ROUGH DRAFT
AFTER FILL-IN

HIGH DRAFT

AFTER FILL-IN

REACTOR OPERATIONS DAILY REPORT

DATE 6-8-65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1860	2115	1095		1810		4400	4285	7690	8685	16375
2. MAXIMUM POWER LEVEL - MW	1860	2115	1905		1820		4400	4285	7700	8685	16385
3. INPUT PRODUCTION - MWD	1860	2115	1905		1815		4400	4262	7695	8662	16357
4. OUTAGE HOURS	0	0	0		0		0	0	0	0	0
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	+4840	+7446	+7416		+1124		+5094	-16272	+20.8	-11.2	+9.6
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	15.3	14.6	14.3		15.0		14.1	13.4	144.5	212.1	356.6
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	94.2	94.8	94.7		91.9		93.6	91.5	100.0	67.8	89.3
8. REACTOR WATER FLOW RATE AT 2330- GPM + 1000	90.0	101.1	90.0		89.9		208.0	208.0	76.4	79.0	77.3
9. FACTOR LIMITING POWER LEVEL	T.A.I.	B.O.	B.O.		T.P.		E.A.L.	N.E.	71.6	84.9	76.0
10. DAILY ABNORMAL WATER COLLECTION - GALS.	103	N.	N.		11		N.				
11. ESTIMATED STARTUP TIME											

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
					0	0			0	0

REMARKS:

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E. J. Prudich

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ROUGH DRAFT

AFTER FILL-IN

ROUGH DRAFT
AFTER FILL-IN

REACTOR OPERATIONS DAILY REPORT

DATE 6-9-65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	0	2105	1900		1800		4400	4295	5805	8695	14500
2. MAXIMUM POWER LEVEL - MW	1860	2115	1905		1810		4400	4295	7690	8695	16385
3. INPUT PRODUCTION - MWD	629	2113	1903		1807		4400	4291	6452	8691	15143
4. OUTAGE HOURS	15.3	0	0		0		0	0	15.3	0	15.3
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	+4229	+8365	+8352		+1231		+5733	-15291	+22.2	-9.6	+12.6
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	17.3	14.8	14.4		15.1		14.2	13.5	LINE 8 TOTALS IN KWWD'S		
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	20.0	94.8	94.5		91.8		93.4	91.6	INPUT PROD. FORECAST FOR MO.		
8. REACTOR WATER FLOW RATE AT 2330- GPM ± 1000	7.0	100.5	90.0		89.9		208.0	208.0	144.5	212.1	356.6
9. FACTOR LIMITING POWER LEVEL		B.O.	B.O.		T.P.		E.A.L.	N.E.	TIME OPER. EFF. - MO-TO-DATE		
10. DAILY ABNORMAL WATER COLLECTION - GALS.	46	N.	17		11		N.	N.	98.2	71.4	89.3
11. ESTIMATED STARTUP TIME	6-10-65 2000								76.7	80.7	78.0
									71.6	84.9	76.0
									TIME OPER. EFF. - 30 DAY AVG.		
									TIME OPER. EFF. FORECAST FOR MO.		

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
	0	0	0	0	6	6	1	2	0	297.0

REMARKS: B - Reactor shut down at 0842 hours due to a water leak. Leak testing of entire unit is in progress.

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ROUGH DRAFT
AFTER FILL-IN

- **ROUGH DRAFT**

AFTER FILL-IN

REACTOR OPERATIONS DAILY REPORT

DATE 6/10/65

This document classified by

Ray Bradish

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1000	2100	1895		1795		4400	4340	6790	8740	15530
2. MAXIMUM POWER LEVEL - MW	0	2105	1900		1800		4400	4330	5805	8730	14535
3. INPUT PRODUCTION - MWD	0	2104	1899		1798		4400	4304	5801	8704	14505
4. OUTAGE HOURS	24.0	0	0		0		0	0	24.0	0	24.0
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	+2989	+9276	+9284		+1329		+6370	-14294	+22.9	-7.9	+15.0
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	15.7	15.0	14.7		15.2		14.2	13.6	144.5	212.1	356.6
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	16.0	95.0	94.6		91.5		93.6	92.6			
8. REACTOR WATER FLOW RATE AT 2330- GPM + 1000	84.8	100.6	90.0		89.6		208.0	208.0	95.9	74.2	88.7
9. FACTOR LIMITING POWER LEVEL		B.O.	B.O.		T.P.		E.A.L.	N.E.	76.4	82.2	78.3
10. DAILY ABNORMAL WATER COLLECTION - GALS.		N.	12		12		N.	40			
11. ESTIMATED STARTUP TIME									71.6	84.9	76.0

LINE 8 TOTALS IN KWWD'S

INPUT PROD. FORECAST FOR MO.

TIME OPER. EFF. - MO-TO-DATE

TIME OPER. EFF. - 30 DAY AVG.

TIME OPER. EFF. FORECAST FOR MO.

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
	0	0	1	1	6	6	1	2	0	321.0

REMARKS:

B - Reactor replaced tube 1565 due to an internal leak and re-Van Stoned tube 1872 due to a rear Van Stone failure.

6/11/65 (12-8)

B Reactor resumed operation at 0151 hours.

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- **ROUGH DRAFT**

AFTER FILL-IN

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REACTOR OPERATIONS DAILY REPORT

DATE

6/11/65

B

H

KE

KW

SMALL

K'S

TOTAL

1. POWER LEVEL AT 0900
FOLLOWING DAY - MW

1650

2100

1895

DR

F

H

KE

KW

SMALL

K'S

TOTAL

2. MAXIMUM POWER LEVEL - MW

1600

2100

1895

DR

F

H

KE

KW

SMALL

K'S

TOTAL

3. INPUT PRODUCTION - MWD

1106

2100

1895

DR

F

H

KE

KW

SMALL

K'S

TOTAL

4. OUTAGE HOURS

1.9

0

0

DR

F

H

KE

KW

SMALL

K'S

TOTAL

5. INPUT PRODUCTION VARIANCE
FROM FORECAST-M-T-D - MWD

DR

F

H

KE

KW

SMALL

K'S

TOTAL

6. REACTOR INLET WATER
TEMPERATURE AT 2330- C

15.0

14.5

14.4

DR

F

H

KE

KW

SMALL

K'S

TOTAL

7. BULK OUTLET WATER
TEMPERATURE AT 2330- C

82.0

94.1

94.7

DR

F

H

KE

KW

SMALL

K'S

TOTAL

8. REACTOR WATER FLOW
RATE AT 2330- GPM $\pm$ 1060

90.4

100.8

90.0

DR

F

H

KE

KW

SMALL

K'S

TOTAL

9. FACTOR LIMITING POWER
LEVEL

N.E.

B.O.

B.O.

DR

F

H

KE

KW

SMALL

K'S

TOTAL

10. DAILY ABNORMAL WATER
COLLECTION - GALS.

36

N.

N.

DR

F

H

KE

KW

SMALL

K'S

TOTAL

11. ESTIMATED
STARTUP TIME

DATE

TIME

DR

F

H

KE

KW

SMALL

K'S

TOTAL

12. COMBINED REACTORS
MONTH-TO-DATE

RAT.

ENR.

WATER LEAKS

TUBE

V.S.

SCRAMS

RECOVERIES

SCHEDULED OUTAGES

COMPLETED

REMAINING

OTHER
OUTAGES

DAILY PEAK ELECT.
DEMAND - MEGAWATTS

327

REMARKS:

B - Reactor resumed operation at 0151 hours concluding
an outage for the correction of a water leak.

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ROUGH DRAFT
AFTER FILL-IN

ROUGH DRAFT
AFTER FILL-IN

REACTOR OPERATIONS DAILY REPORT

DATE 6/12/65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1850	2105	1895		1790		4400	4400	7640	8800	16440
2. MAXIMUM POWER LEVEL - MW	1800	2105	1895		1790		4400	4400	7590	8800	16390
3. INPUT PRODUCTION - MWD	1687	2103	1895		1790		4400	4400	7475	8800	16275
4. OUTAGE HOURS	0	0	0		0		0	0	0	0	0
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD									LINE 5 TOTALS IN KWWD'S		
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	15.3	14.7	14.6		15.2		13.9	13.7	INPUT PROD. FORECAST FOR MO.		
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	91.5	94.7	94.3		91.2		93.6	93.8	TIME OPER. EFF. - MO-TO-DATE		
8. REACTOR WATER FLOW RATE AT 2330- GPM $\div$ 1000	90.3	100.8	90.0		89.5		208.0	208.0	TIME OPER. EFF. - 30 DAY AVG.		
9. FACTOR LIMITING POWER LEVEL	N.E.	B.O.	B.O.		T.P.		E.A.I.	E.A.I.	TIME OPER. EFF. FORECAST FOR MO.		
10. DAILY ABNORMAL WATER COLLECTION - GALS.	66	N.	N.		12		N.	N.			
11. ESTIMATED STARTUP TIME											

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
REMARKS:										321.0

ROUGH DRAFT

ROUGH DRAFT
AFTER FILL-IN

REACTOR OPERATIONS DAILY REPORT

DATE 6/13/65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1860	2105	1895		1790		4400	4400	7650	8800	16450
2. MAXIMUM POWER LEVEL - MW	1860	2105	1895		1790		4400	4400	7650	8800	16450
3. INPUT PRODUCTION - MWD	1843	2105	1895		1790		4400	4400	7633	8800	16433
4. OUTAGE HOURS	0	0	0		0		0	0	0	0	0
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	+3905	+12004	+12068		+1601		+8277	-11069	+29.6	-2.8	+26.8
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	15.4	14.8	14.6		15.1		14.0	13.6	144.5	212.1	356.6
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	94.5	94.8	94.7		91.2		93.6	93.6	96.7	80.2	91.2
8. REACTOR WATER FLOW RATE AT 2330- GPM ± 1000	90.2	100.6	90.0		89.5		208.0	208.0	77.6	82.2	79.1
9. FACTOR LIMITING POWER LEVEL	B.O.	B.O.	B.O.		T.P.		E.A.L.	E.A.L.	71.6	84.9	76.0
10. DAILY ABNORMAL WATER COLLECTION - GALS.	17	N.	N.		11		N.	N.			
11. ESTIMATED STARTUP TIME											

LINE 5 TOTALS IN KW/D'S

INPUT PROD. FORECAST FOR MO.

TIME OPER. EFF. - MO-TO-DATE

TIME OPER. EFF. - 30 DAY AVG.

TIME OPER. EFF. FORECAST FOR MO.

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
	0	0	1	1	6	6	1	2	0	320.0

REMARKS:

ROUGH DRAFT
AFTER FILL-IN

ROUGH DRAFT

AFTER FILL-IN

REACTOR OPERATIONS DAILY REPORT

DATE 6/14/65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1870	2105	1895		1790		4400	4400	7660	8800	16460
2. MAXIMUM POWER LEVEL - MW	1865	2105	1895		1790		4400	4400	7655	8800	16455
3. INPUT PRODUCTION - MWD	1861	2105	1895		1790		4400	4400	7651	8800	16451
4. OUTAGE HOURS	0	0	0		0		0	0	0	0	0
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	+4526	+12916	+12996		+1691		+8913	-9976	+32.1	-1.1	+31.0
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	14.9	14.5	14.3		15.0		13.7	13.4	144.5	212.1	356.6
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	94.0	94.6	94.8		91.2		93.4	93.7	96.9	81.6	91.8
8. REACTOR WATER FLOW RATE AT 2330- GPM ± 1000	90.1	100.8	90.0		89.6		208.0	208.0	77.6	82.2	79.1
9. FACTOR LIMITING POWER LEVEL	B.O.	B.O.	B.O.		T.P.		E.A.L.	E.A.L.	71.6	84.9	76.0
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.	N.	N.		11		N.	N.			
11. ESTIMATED STARTUP TIME											

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
	0	0	1	1	6	6	1	2	0	326.0

REMARKS:

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ROUGH DRAFT

AFTER FILL-IN

ROUGH DRAFT
AFTER FILL-IN

REACTOR OPERATIONS DAILY REPORT

DATE 6/15/65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1880	2105	1895		1790		4400	4400	7670	8800	16470
2. MAXIMUM POWER LEVEL - MW	1875	2105	1895		1790		4400	4400	7665	8800	16465
3. INPUT PRODUCTION - MWD	1871	2105	1895		1790		4400	4400	7661	8800	16461
4. OUTAGE HOURS	0	0	0		0		0	0	0	0	0
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	+5157	+13832	+13924		+1781		+9555	-8883	+34.7	+0.7	+35.4
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	14.8	14.3	14.3		15.0		13.8	13.3	144.5	212.1	356.6
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	94.4	94.4	94.8		91.0		93.3	93.5	97.1	82.8	92.4
8. REACTOR WATER FLOW RATE AT 2330- GPM $\pm$ 1000	90.1	100.6	90.0		89.5		208.0	208.0	97.1	82.8	92.4
9. FACTOR LIMITING POWER LEVEL	B.O.	B.O.	B.O.		T.P.		E.A.L.	E.A.L.	78.2	82.2	79.5
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.	N.	N.		11		N.	N.	71.6	84.9	76.0
11. ESTIMATED STARTUP TIME											

LINE 5 TOTALS IN KWWD'S

INPUT PROD. FORECAST FOR MO.

TIME OPER. EFF. - MO-TO-DATE

TIME OPER. EFF. - 30 DAY AVE.

TIME OPER. EFF. FORECAST FOR MO.

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
	0	0	1	1	6	6	1	2	0	325.0

REMARKS:

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ROUGH DRAFT
AFTER FILL-IN

ROUGH DRAFT

AFTER FILL-IN

REACTOR OPERATIONS DAILY REPORT

This document classified by

DATE 6/16/65

B C D E F H K W SMALL K'S TOTAL

1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1870	2100	1895	1790	4400	4400	7655	8800	16455
2. MAXIMUM POWER LEVEL - MW	1880	2105	1895	1790	4400	4400	7670	8800	16470
3. INPUT PRODUCTION - MWD	1876	2104	1895	1790	4400	4400	7665	8800	16465
4. OUTAGE HOURS	0	0	0	0	0	0	0	0	0
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	+5793	+14743	+14852	+1871	+10192	-7790	+37.3	+2.4	+39.7
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	15.5	14.8	14.3	15.1	14.0	13.8	144.5	212.1	356.6
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	94.6	94.9	94.7	91.6	93.5	93.8	97.3	83.9	92.8
8. REACTOR WATER FLOW RATE AT 2330- GPM $\pm$ 1000	89.8	100.3	90.0	89.6	208.0	208.0	79.1	82.2	80.1
9. FACTOR LIMITING POWER LEVEL	B.O.	B.O.	B.O.	T.P.	E.A.L.	E.A.L.	71.6	84.9	76.0
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.	N.	N.	12	N.	N.			
11. ESTIMATED STARTUP TIME									

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
	0	0	1	1	6	6	1	2	0	327.0

REMARKS:

RESTRICTED DATA

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ROUGH DRAFT

AFTER FILL-IN

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RO DRAFT
AFTER FILL-IN

REACTOR OPERATIONS DAILY REPORT

DATE 6/17/65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1870	0	1895		1790		4400	4400	5555	8800	14355
2. MAXIMUM POWER LEVEL - MW	1870	2100	1895		1790		4400	4400	7655	8800	16455
3. INPUT PRODUCTION - MWD	1870	776	1895		1790		4400	4400	6331	8800	15131
4. OUTAGE HOURS	0	15.1	0		0		0	0	15.1	0	15.1
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	+6423	+14321	+15780		+1961		+10823	-6697	+38.5	+4.1	+42.6
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	15.0	14.0	14.1		15.0		13.9	13.6	144.5	212.1	356.6
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	94.3	16.2	94.7		91.2		93.6	93.8	96.5	84.8	92.6
8. REACTOR WATER FLOW RATE AT 2330- GPM $\pm$ 1000	89.7	34.3	96.0		89.7		208.0	208.0	79.7	82.2	80.5
9. FACTOR LIMITING POWER LEVEL	E.O.		B.O.		T.P.		E.A.L.	E.A.L.	71.6	84.9	76.0
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.		J.		11		N.	N.			
11. ESTIMATED STARTUP TIME		6-21-65 1600									
12. COMBINED REACTORS MONTH-TO-DATE	0	1	1	1	6	6	2	1	0		323.0

REMARKS:

Reactor shut down at 0852 hours for the removal of an I&E-E metal rupture from tube 3077. No attempt has yet been made to discharge the rupture. The reactor will remain down for scheduled charge-discharge and maintenance planned for 6/21/65.

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ROUGH DRAFT
AFTER FILL-IN

HIGH DRAFT
AFTER FILL-IN

This document classified by
Ed. P. Pordich

REACTOR OPERATIONS DAILY REPORT

DATE 6/18/65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1860	0	1895		1790		4400	4400	5545	8800	14345
2. MAXIMUM POWER LEVEL - MW	1870	0	1895		1790		4400	4400	5555	8800	14355
3. INPUT PRODUCTION - MWD	1867	0	1895		1790		4400	4400	5552	8800	14352
4. OUTAGE HOURS	0	24.0	0		0		0	0	24.0	0	24.0
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD									LINE 5 TOTALS IN KWWD'S		
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	16.1	14.4	14.8		15.5		14.5	14.0	INPUT PROD. FORECAST FOR MO.		
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	95.0	20.0	94.5		91.8		94.3	94.3	TIME OPER. EFF. - MO-TO-DATE		
8. REACTOR WATER FLOW RATE AT 2330- GPM ± 1000	89.8	8.1	90.0		89.5		207.5	208.0	TIME OPER. EFF. - 30 DAY AVG.		
9. FACTOR LIMITING POWER LEVEL	B.O.		B.O.		T.P.		E.A.L.	E.A.L.	TIME OPER. EFF. FORECAST FOR MO.		
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.		N.		N.		N.	45			
11. ESTIMATED STARTUP TIME		6-21-65									
		1200									

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
										300.0

REMARKS:

C - Reactor continuing down for scheduled charge-discharge and maintenance.

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ROUGH DRAFT
AFTER FILL-IN

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ROUGH DRAFT
AFTER FILL-IN

REACTOR OPERATIONS DAILY REPORT

DATE

6/19/65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1855	0	1895		0		4400	4400	3750	8800	12550
2. MAXIMUM POWER LEVEL - MW	1860	0	1895		1790		4400	4400	5545	8800	14345
3. INPUT PRODUCTION - MWD	1859	0	1895		655		4400	4400	4409	8800	13209
4. OUTAGE HOURS	0	24.0	0		15.2		0	0	39.2	0	39.2
5. INPUT PRODUCTION VARIANCE FROM FORECAST-N-T-D - MWD											LINE 5 TOTALS IN KW/D'S
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	16.3	15.1	15.0		17.5		14.9	14.3			INPUT PROD. FORECAST FOR MO.
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	95.0	18.5	94.8		18.5		94.4	94.6			TIME OPER. EFF. - MO-TO-DATE
8. REACTOR WATER FLOW RATE AT 2330- GPM $\pm$ 1000	89.9	7.3	90.0		31.2		207.5	208.0			TIME OPER. EFF. - 30 DAY AVG.
9. FACTOR LIMITING POWER LEVEL	B.O.		B.O.				E.A.L.	E.A.L.			TIME OPER. EFF. FORECAST FOR MO.
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.		N.				N.	N.			
11. ESTIMATED STARTUP TIME		6-21-65 1200			6-21-65 0500						
12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS	
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING			
										290.0	

REMARKS:

1 - Reactor continuing down for scheduled charge-discharge and maintenance. VSR channel No. 17 was caulked to a depth of 35 feet.
 2 - Reactor scrambled at 0847 hours due to a loss of power to the HCEs caused by a burned out coil on the No. 8 rod brake solenoid.

ROUGH DRAFT

ROUGH DRAFT
AFTER FILL-IN

REACTOR OPERATIONS DAILY REPORT

DATE 6/20/65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1845	0	1895		1000		4400	4400	4740	8800	13540
2. MAXIMUM POWER LEVEL - MW	1855	0	1895		0		4400	4400	3750	8800	12550
3. INPUT PRODUCTION - MWD	1853	0	1895		0		4400	4400	3748	8800	12548
4. OUTAGE HOURS	0	24.0	0		24.0		0	0	48.0	0	48.0
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	+8282	+10741	+18564		+694		+12733	-3418	+36.9	+9.3	+46.2
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	16.6	15.5	15.3		16.0		15.0	14.7	LINE 5 TOTALS IN KWWD'S		
7. BULK OUTLET WATER TEMPERATURE AT 2350- C	95.0	16.9	94.8		17.8		95.0	95.0	INPUT PROD. FORECAST FOR MO.		
8. REACTOR WATER FLOW RATE AT 2330- GPM ± 1000	89.7	28.1	90.5		85.4		208.0	208.0	144.5	212.1	356.6
9. FACTOR LIMITING POWER LEVEL	B.O.		B.O.				E.A.L.	E.A.L.	TIME OPER. EFF. - MO-TO-DATE		
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.		N.				N.	N.	91.3	87.1	89.9
11. ESTIMATED STARTUP TIME		6-21-65 1200			6-21-65 0500				TIME OPER. EFF. - 30 DAY AVG.		
									80.9	85.5	82.5
									71.6	84.9	76.0

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	MAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
	0	1	1	1	7	6	2	1	0	298.0

REMARKS:

- C - Continuing down for scheduled charge-discharge and maintenance.
- F - Continuing down following a scram caused by a burned out coil on the No. 8 rod solenoid.
- 6/21/65 (12-8)
- F - Resumed operation at 0500 hours.

ROUGH DRAFT
AFTER FILL-IN

ROUGH DRAFT
AFTER FILL-IN

REACTOR OPERATIONS DAILY REPORT

DATE 6/21/65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1840	1875	1885		1500		4400	4375	7100	8775	15875
2. MAXIMUM POWER LEVEL - MW	1845	1505	1895		1350		4400	4400	6595	8800	15395
3. INPUT PRODUCTION - MWD	1844	203	1888		831		4398	4394	4766	8792	13558
4. OUTAGE HOURS	0	17.3	0		5.0		0	0	22.3	0	22.3
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	+8886	+9757	+19485		-1563		+13375	-2331	+36.6	+11.0	+47.6
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	16.7	16.0	15.4		16.2		15.0	14.8	144.5	212.1	356.6
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	94.8	53.0	94.9		72.8		94.9	94.8	90.6	87.7	89.6
8. REACTOR WATER FLOW RATE AT 2330- GPM ± 1000	89.7	97.8	90.2		89.4		208.0	208.0	81.8	87.2	83.6
9. FACTOR LIMITING POWER LEVEL	B.O.	N.E.	B.O.		N.E.		E.A.L.	B.O.	71.6	84.9	76.0
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.	25	N.		N.		N.	40			
11. ESTIMATED STARTUP TIME											

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	MAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
	0	1	1	1	8	7	2	1	0	322.0

REMARKS:

C - Resumed operation at 1340 hours concluding scheduled charge-discharge. Reactor scrambled from 1849 hours to 2225 hours by an unexplained Panellit trip on page 3562.

F - Resumed operation at 0500 hours.

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ROUGH DRAFT
AFTER FILL-IN

ROUGH DRAFT

AFTER FILL-IN

REACTOR OPERATIONS DAILY REPORT

DATE 6/23/65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1840	2045	1880		0		4390	4375	5765	8765	14530
2. MAXIMUM POWER LEVEL - MW	1840	2010	1885		1550		4400	4385	7285	8785	16070
3. INPUT PRODUCTION - MWD	1840	1834	1883		567		4398	4377	6124	8775	14899
4. OUTAGE HOURS	0	0	0		14.7		0	0	14.7	0	14.7
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	+9486	+10398	+20401		-2696		+14010	-1261	+37.6	+12.7	+50.3
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	16.8	15.9	15.6		17.9		15.1	14.9	144.5	212.1	356.6
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	95.0	92.5	94.7		18.7		94.9	94.6	90.3	88.3	89.6
8. REACTOR WATER FLOW RATE AT 2330- GPM ± 1000	89.7	100.7	90.2		31.3		208.0	208.0	82.3	88.9	84.5
9. FACTOR LIMITING POWER LEVEL	B.O.	N.E.	B.O.		N.		B.O.	B.O.	TIME OPER. EFF. - 30 DAY AVG.		
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.	91	N.		N.		N.	N.	TIME OPER. EFF. FORECAST FOR MO.		
11. ESTIMATED STARTUP TIME					6-23-65 2400				71.6	84.9	76.0

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES		SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.		COMPLETED	REMAINING				
	0	1	1	1	9	7	1	2	1	0	322.0

REMARKS:

F - Reactor scrambled at 0915 hours by a Panellit trip due to a broken rear pigtail adapter on tube 3889.

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ROUGH DRAFT

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REACTOR OPERATIONS DAILY REPORT

DATE 6/23/65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1840	0	1880		1000		0	4375	4720	4375	9095
2. MAXIMUM POWER LEVEL - MW	1840	2060	1880		0		4400	4380	5780	8780	14560
3. INPUT PRODUCTION - MWD	1839	1441	1880		0		3731	4377	5160	8108	13268
4. OUTAGE HOURS	0	7.2	0		23.0		3.6	0	30.2	3.6	33.8
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	+10085	+10646	+21314		-4396		+13978	-191	+37.6	+13.8	+51.4
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	17.0	16.0	15.7		16.8		15.4	15.0	144.5	212.1	356.6
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	95.0	18.4	94.8		18.0		23.5	94.8	89.4	88.5	89.1
8. REACTOR WATER FLOW RATE AT 2330- GPM ± 1000	89.7	28.9	90.0		84.7		65.0	208.0	82.7	90.3	85.2
9. FACTOR LIMITING POWER LEVEL	B.O.		B.O.		N.E.			B.O.	71.6	84.9	76.0
10. DAILY ABNORMAL WATER COLLECTION - GALS.	11	37	N.		N.		6-29-65	N.			
11. ESTIMATED STARTUP TIME		0245					2400				

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
		#2	1	1	9	7	2	1	0	304.0

REMARKS: * One thorium not included.

C - Reactor shut down at 1645 hours for the removal of a failed thorium element from tube 0358. The failure was removed with the charging machine.

F - Resumed operation at 2300 hours.

KE - Reactor shut down at 2024 hours for the removal of an enriched rupture from tube 3380. The reactor will remain down for scheduled charge-discharge.

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St. Paul

ROUGH DRAFT
AFTER FILL-IN

ROUGH DRAFT
AFTER FILL-IN

REACTOR OPERATIONS DAILY REPORT

DATE 6/24/65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1835	1800	1870		1580		0	4370	7085	4370	11455
2. MAXIMUM POWER LEVEL - MW	1835	0	1880		1560		0	4375	5275	4375	9650
3. INPUT PRODUCTION - MWD	1835	0	1876		1176		0	4373	4887	4373	9260
4. OUTAGE HOURS	0	24.0	0		0		24.0	0	24.0	24.0	48.0
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	+10680	+9453	+22223		-4920		+10215	+875	+37.4	+11.1	+48.5
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	17.0	16.2	15.8		16.5		16.1	15.0	144.5	212.1	356.6
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	95.0	17.8	94.8		82.3		26.1	94.8	TIME OPER. EFF. - MO-TO-DATE		
8. REACTOR WATER FLOW RATE AT 2330- GPM ÷ 1000	89.7	94.5	90.0		89.7		17.8	208.0	89.2	86.9	88.1
9. FACTOR LIMITING POWER LEVEL	B.O.		B.O.		N.E.			B.O.	83.3	89.5	85.4
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.	N.	N.		N.			40	TIME OPER. EFF. FORECAST FOR MO.		
11. ESTIMATED STARTUP TIME							6-29-65 0900		71.6	84.9	76.0

LINE 8 TOTALS IN KWWD'S

INPUT PROD. FORECAST FOR MO.

TIME OPER. EFF. - 30 DAY AVG.

DAILY PEAK ELECT. DEMAND - MEGAWATTS

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	EMR.	TUBE	V.S.			COMPLETED	REMAINING		
		*2	1	1	9	7	3	1	0	265.0

REMARKS: *One thorium not included

C - Reactor continuing down for miscellaneous maintenance following the removal of a failed thorium element.

KE - Reactor continuing down for scheduled charge-discharge following the removal of a failed enriched fuel element.

6/25/65 (12-8)

C - Reactor resumed operation at 0125 hours.

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ROUGH DRAFT
AFTER FILL-IN

CLASSIFIED

ROUGH DRAFT
AFTER FILL-IN

REACTOR OPERATIONS DAILY REPORT

DATE 6/25/65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1835	2030	1870		0		0	4370	5735	4370	10105
2. MAXIMUM POWER LEVEL - MW	1835	2000	1870		1590		0	4370	8295	4370	12665
3. INPUT PRODUCTION - MWD	1835	1630	1870		1053		0	4370	6388	4370	10758
4. OUTAGE HOURS	0	1.4	0				24.0	0	1.4	24.0	25.4
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD									LINE 5 TOTALS IN KWWD'S		
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	16.9	16.1	15.8		18.0		16.6	15.0	INPUT PROD. FORECAST FOR MO.		
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	94.9	91.8	94.7		18.9		C.U.	94.7	TIME OPER. EFF. - MO-TO-DATE		
8. REACTOR WATER FLOW RATE AT 2330- GPM ± 1000	89.8	102.1	90.1		29.3		18.0	208.0	TIME OPER. EFF. - 30 DAY AVG.		
9. FACTOR LIMITING POWER LEVEL	B.O.	N.E.	B.O.					B.O.	TIME OPER. EFF. FORECAST FOR MO.		
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.	12	N.					N.			
11. ESTIMATED STARTUP TIME											

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	Y.S.			COMPLETED	REMAINING		
										270

REMARKS:
C - Resumed operation at 0125 hours concluding an outage for the removal of a thorium failure.
F - Reactor manually scrambled at 1600 hours for temperature control due to the malfunction of the spline collar.
The reactor remained down on deactivation.
K - Reactor continuing down for scheduled charge-discharge.

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E. J. Prichard

ROUGH DRAFT
AFTER FILL-IN

ROUGH DRAFT
AFTER FILL-IN

REACTOR OPERATIONS DAILY REPORT

DATE 6/26/65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1835	2060	1870				0	0	5765	0	5765
2. MAXIMUM POWER LEVEL - MW	1835	2060	1870				0	4370	5765	4370	10135
3. INPUT PRODUCTION - MWD	1835	2035	1870				0	2932	5740	2932	8672
4. OUTAGE HOURS	0	0	0				24.0	7.9	0	31.9	31.9
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD									LINE 5 TOTALS IN KWWD'S		
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	16.1	15.6	15.4				16.4	15.4	INPUT PROD. FORECAST FOR MO.		
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	94.1	93.6	94.8				C.U.	21.2	TIME OPER. EFF. - MO-TO-DATE		
8. REACTOR WATER FLOW RATE AT 2330- GPM ± 1000	89.9	100.1					18.0	15.8	TIME OPER. EFF. - 30 DAY AVG.		
9. FACTOR LIMITING POWER LEVEL	B.O.	N.E.	B.O.						TIME OPER. EFF. FORECAST FOR MO.		
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.	18	N.								
11. ESTIMATED STARTUP TIME											

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
										240

REMARKS:

F - Deactivation discharge is in progress.
E - Continuing down for scheduled charge-discharge
and maintenance.
KW - Reactor scrammed at 1606 hours by a Panellit trip
due to a pressure increase on thoria tube 4168.

ROUGH DRAFT
AFTER FILL-IN

ROUGH DRAFT
AFTER FILL-IN

REACTOR OPERATIONS DAILY REPORT

DATE 6/27/65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1835	2070	1870				0	0	5775	0	5775
2. MAXIMUM POWER LEVEL - MW	1835	2070	1880				0	0	5785	0	5785
3. INPUT PRODUCTION - MWD	1835	2065	1875				0	0	5775	0	5775
4. OUTAGE HOURS	0	0	0				24.0	24.0	0	48.0	48.0
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	+12465	+11596	+24937				-1083	-1744	+43.4	-2.8	+40.6
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	16.7	16.0	15.6				16.7	16.0	INPUT PROD. FORECAST FOR MO.		
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	94.7	94.8	94.8				C.U.	22.0	144.5	212.1	356.6
8. REACTOR WATER FLOW RATE AT 2330- GPM $\pm$ 1000	89.7	100.8	90.0				17.0	15.8	90.1	80.3	86.8
9. FACTOR LIMITING POWER LEVEL	B.O.	B.O.	B.O.						88.5	82.3	86.4
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.	26	N.				6-29-65	6-28-65	TIME OPER. EFF. - 30 DAY AVG.		
11. ESTIMATED STARTUP TIME							0900	0900	71.6	84.9	76.0

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
		*2	1	1	10	7	3	1	0	230.0

REMARKS: *One thoria not included.

F - The top one-third of the reactor has been discharged.

KE - Continuing down for scheduled charge-discharge and maintenance.

KW - Thoria tube 4168 was discharged due to a suspected failure.

The metal has not yet been inspected.

ROUGH DRAFT
AFTER FILL-IN

ROUGH DRAFT

ALL-IN

REACTOR OPERATIONS DAILY REPORT

DATE 6/28/65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1835	2080	1870				0	3600	5785	3600	9385
2. MAXIMUM POWER LEVEL - MW	1835	2080	1875				0	3070	5790	3070	8860
3. INPUT PRODUCTION - MWD	1835	2076	1870				0	1347	5781	1347	7128
4. OUTAGE HOURS	0	0	0				24.0	9.0	0	33.0	33.0
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	+13060	+12479	+25840		-5567		-4846	-3704	+45.8	-8.5	+37.3
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	16.7	16.0	15.8				16.4	14.9			
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	94.7	94.7	94.8				19.8	71.0			
8. REACTOR WATER FLOW RATE AT 2330- GPM + 1000	89.6	101.6	90.0				65.0	206.5	90.0	78.6	86.1
9. FACTOR LIMITING POWER LEVEL	B.O.	B.O.	B.O.					N.E.	89.7	80.0	86.4
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.	56	N.				6/29/65	N.	71.6	84.9	76.0
11. ESTIMATED STARTUP TIME	DATE	DATE	DATE								
	TIME	TIME	TIME								

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
	0	* 2	1	1	10	7	3	1	0	293.0

REMARKS: * One thoria failure not included.

F - The discharge of the reactor is continuing and is approximately two-thirds complete.

KE - Continuing down for scheduled charge-discharge and maintenance.

HW - Resumed operation at 0903 hours completing an outage for the discharge of a suspected thoria failure.

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GROUP 1

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S. J. Prudich

ROUGH DRAFT
AFTER FILL-IN

180

180

ROUGH DRAFT
AFTER FILL-IN

REACTOR OPERATIONS DAILY REPORT

DATE 6/29/65

This document classified

by *E. J. Prud'homme*

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	0	2070	0				4300	4050	2070	8350	10420
2. MAXIMUM POWER LEVEL - MW	1835	2080	1870				3900	3880	5785	7780	13565
3. INPUT PRODUCTION - MWD	1832	2078	1320				1638	3601	5230	5239	10469
4. OUTAGE HOURS	0	0	7.1				11.7	0	7.1	11.7	18.8
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	+13652	+13363	+26193		-5567		-6972	-3410	+47.7	-10.4	+37.3
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	17.3	16.7	18.0				15.5	15.1	144.5	212.1	356.6
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	94.6	94.9	24.7				85.0	85.5	90.0	78.4	86.1
8. REACTOR WATER FLOW RATE AT 2330- GPM ± 1000	89.5	101.2	7.6				207.5	208.0	90.0	79.2	86.3
9. FACTOR LIMITING POWER LEVEL	B.O.	B.O.					N.E.	N.E.	90.0	79.2	86.3
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.	38					N.	N.	71.6	84.9	76.0
11. ESTIMATED STARTUP TIME	7-3-65 2300		7-1-65 2200								

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
		#2	1	1	11	7	4	0	0	293.0

REMARKS: * One thoria failure not included.

D - Reactor scrammed at 1657 hours by a Panellit trip when a spline which was being inserted into tube 2582 blew out of the spline seal.

F - The discharge of metal from the reactor is approximately 85% complete.

KE - Resumed operation at 1145 hours.

6/30/65 (12-8)

E - Reactor shut down at 0530 hours for scheduled change of discharge.

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ROUGH DRAFT
AFTER FILL-IN

REACTOR OPERATIONS DAILY REPORT

DATE 6-30-65

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B	C	D	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	0	0			4400	4270	0	8670	8670
2. MAXIMUM POWER LEVEL - MW	1820	0			4400	4210	3890	8610	12500
3. INPUT PRODUCTION - MWD	404	0			4298	4080	2473	8378	10851
4. OUTAGE HOURS	18.5	0			0	0	42.5	0	42.5
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	+12816	+14238	-5567		-6437	-2637	+46.7	-9.1	+37.6
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	16.4	16.7			15.7	15.2	LINE 5 TOTALS IN KWWD'S		
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	26.0	94.7			94.8	92.0	INPUT PROD. FORECAST FOR MO.		
8. REACTOR WATER FLOW RATE AT 2330- GPM ± 1000	5.0	101.9			209.0	208.0	144.5	212.1	356.6
9. FACTOR LIMITING POWER LEVEL		B.O.			B.O.	N.E.	88.7	79.2	85.5
10. DAILY ABNORMAL WATER COLLECTION - GALS.		34			N.	30	88.7	79.2	85.5
11. ESTIMATED STARTUP TIME	DATE 7-3-65 HOUR 2300	7-2-65 1600					71.6	84.9	76.0
							TIME OPER. EFF. - 30 DAY AVG.		
							TIME OPER. EFF. FORECAST FOR MO.		

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
	0	#2	1	1	11	6	4	0	0	

REMARKS: *One thoria failure not included.

B - Reactor shut down at 0530 hours for scheduled charge-discharge and maintenance.

D - Reactor continuing down following a reactor scram to complete a small charge-discharge and maintenance.

Completed the discharge of the entire reactor except for one reluctant charge.

7-1-65 (12-8)

Reactor manually scrambled at 0357 hours when an HCR supply water annunciator tripped and would not re-set within 10 seconds. Water supply was adequate for rod cooling and no increase in individual rod water temperatures could be detected.

GROUP 1

Excluded from automatic downgrading and declassification

- ROUGH DRAFT

AFTER FILL-IN

REACTOR OPERATIONS DAILY REPORT

DATE 7/2/65

This document classified by

Jerry Daniels

REFLECTED DATA
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	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	0	1860	1835				4400	4340	3695	8740	12435
2. MAXIMUM POWER LEVEL - MW	0	1670	1825				4400	4340	3495	8740	12235
3. INPUT PRODUCTION - MWD	0	393	1550				4388	4316	1943	8704	10647
4. OUTAGE HOURS	24.0	15.8	0				0	0	39.8	0	39.8
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD											LINE 5 TOTALS IN KW-HRS
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	17.6	17.1	16.6				16.0	15.6			INPUT PROD. FORECAST FOR MO.
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	21.2	78.8	94.0				94.8	94.6			TIME OPER. EFF. - MO-TO-DATE
8. REACTOR WATER FLOW RATE AT 2330- GPM ± 1000	4.5	101.3	89.8				208.5	208.0			TIME OPER. EFF. - 30 DAY AVG.
9. FACTOR LIMITING POWER LEVEL		N.E.	N.E.				B.O.	B.O.			TIME OPER. EFF. FORECAST FOR MO.
10. DAILY ABNORMAL WATER COLLECTION - GALS.		28	122				N.	N.			
11. ESTIMATED STARTUP TIME	DATE										
	HOUR										

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES	WATER LEAKS	SCRAMS	RECOVERIES	SCHEDULED OUTAGES	OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	Y.S.	COMPLETED	REMAINING	
							290.0

REMARKS:

- 2 - Reactor continuing down for scheduled charge-discharge and maintenance.
 C - Resumed operation at 1530 hours concluding an outage caused by a faulty HCR water pressure controller. Reactor scrambled from 1600 hours to 1640 hours by an unexplained Panellit trip on tube 3369.

GROUP 1

Excluded from automatic downgrading
and declassification

- ROUGH DRAFT

AFTER FILL-IN

ROUGH DRAFT
AFTER FILL-IN

REACTOR OPERATIONS DAILY REPORT

DATE 7/3/65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	0	2020	1210				4390	4340	3860	8730	12590
2. MAXIMUM POWER LEVEL - MW	0	2020	1845				4400	4345	3865	8745	12610
3. INPUT PRODUCTION - MWD	0	1907	1836				4388	4341	3743	8729	12472
4. OUTAGE HOURS	24.0	0	0				0	0	24.0	0	24.0
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD											LINE 5 TOTALS IN KWWD'S
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	19.4	16.9	16.8				16.0	15.8			INPUT PROD. FORECAST FOR MO.
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	20.3	93.5	94.7				94.8	94.9			TIME OPER. EFF. -- MO-TO-DATE
8. REACTOR WATER FLOW RATE AT 2330- GPM ÷ 1000	23.3	101.3	89.8				208.5	208.0			TIME OPER. EFF. -- 30 DAY AVG.
9. FACTOR LIMITING POWER LEVEL		N.E.	B.O.				B.O.	B.O.			TIME OPER. EFF. FORECAST FOR MO.
10. DAILY ABNORMAL WATER COLLECTION - GALS.		88	60				N.	N.			
11. ESTIMATED STARTUP TIME											

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
										290.0

REMARKS:

Reactor continuing down for scheduled charge-discharge and maintenance. The reactor was leak tested and a Van Stone leak was found on tube 4084 and an internal leak in tube 4671.

ROUGH DRAFT
AFTER FILL-IN

ROUGH DRAFT
AFTER FILL-IN

REACTOR OPERATIONS DAILY REPORT

DATE 7/4/65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1500	2030	1830				4360	4310	5360	8670	14030
2. MAXIMUM POWER LEVEL - MW	1325	2030	1840				4390	4340	5195	8730	13925
3. INPUT PRODUCTION - MWD	221	2025	1838				4371	4329	4084	8700	12784
4. OUTAGE HOURS	18.3	0	0				0	0	18.3	0	18.3
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD									LINE 5 TOTALS IN KWWD'S		
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	18.1	17.6	17.0				16.4	15.9	INPUT PROD. FORECAST FOR MO.		
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	76.7	94.5	94.5				94.8	94.6	TIME OPER. EFF. - MO-TO-DATE		
8. REACTOR WATER FLOW RATE AT 2330- GPM ÷ 1000	86.0	101.1	90.0				208.5	208.0	TIME OPER. EFF. - 30 DAY AVG.		
9. FACTOR LIMITING POWER LEVEL	N.E.	B.O.	B.O.				B.O.	B.O.	TIME OPER. EFF. FORECAST FOR MO.		
10. DAILY ABNORMAL WATER COLLECTION - GALS.		98	49				N.	N.			
11. ESTIMATED STARTUP TIME DATE HOUR											

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS	
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING			
										292	

REMARKS:

Resumed operation at 1820 hours. Leaking tubes 4084 and 4671 were replaced.

ROUGH DRAFT
AFTER FILL-IN

ROUGH DRAFT
AFTER FILL-IN

REACTOR OPERATIONS DAILY REPORT

DATE 7/5/65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1700	0	1830				4355	0	3530	4355	7885
2. MAXIMUM POWER LEVEL - MW	1650	2030	1835				4360	4310	5515	8670	14185
3. INPUT PRODUCTION - MWD	1522	2030	1832				4352	3939	5384	8291	13675
4. OUTAGE HOURS	0	0	0				0	2.1	0	2.1	2.1
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	-5272	-1190	+204				+4587	+5206	-6.3	LINE 8 TOTALS IN KWWD'S -9.8	+3.5
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	18.3	17.6	17.2				16.5	16.0		INPUT PROD. FORECAST FOR MO. 136.1	206.4
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	91.0	95.0	94.9				94.8	19.0		TIME OPER. EFF. - MO-TD-DATE 60.2	342.5
8. REACTOR WATER FLOW RATE AT 2330- GPM $\pm$ 1000	86.2	100.8	90.0				208.5	197.0		TIME OPER. EFF. - 30 DAY AVG. 82.8	84.6
9. FACTOR LIMITING POWER LEVEL	N.E.	B.O.	B.O.				B.O.			TIME OPER. EFF. FORECAST FOR MO. 83.1	83.2
10. DAILY ABNORMAL WATER COLLECTION - GALS.	99	111	38				N.				
11. ESTIMATED STARTUP TIME		7-7-65 1200						7-11-65 1600			

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	EMR.	TUBE	V.S.			COMPLETED	REMAINING		
	0	1	2	1	3	1	1	3	0	286.0

REMARKS:

KW - Reactor shut down at 2156 hours due to an enriched rupture in tube 4558.

The reactor will remain down for a scheduled outage planned for about

2400 hours on 7/5/65

7/6/65 (12-8)

C - Reactor shut down at 0400 hours due to a water leak.

ROUGH DRAFT
AFTER FILL-IN

ROUGH DRAFT

AFTER FILL-IN

REACTOR OPERATIONS DAILY REPORT

DATE 7/6/65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1725	0	1825				4335	0	3550	4335	7885
2. MAXIMUM POWER LEVEL - MW	1725	2030	1830				4355	0	5585	4355	9940
3. INPUT PRODUCTION - MWD	1703	324	1830				4345	0	3857	4345	8202
4. OUTAGE HOURS	0	20.0	0				0	24.0	20.0	24.0	44.0
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	-4972	-2443	+624				+5469	+2009	-6.8	+7.5	+0.7
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	18.4	17.8	17.3				16.9	17.6	136.1	206.4	342.5
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	94.5	19.3	94.5				94.9	C.U.	62.2	90.9	73.7
8. REACTOR WATER FLOW RATE AT 2330- GPM ÷ 1000	86.3	30.1	90.0				208.5	15.8	81.9	85.9	83.5
9. FACTOR LIMITING POWER LEVEL	N.E.		B.O.				B.O.		83.1	83.3	83.2
10. DAILY ABNORMAL WATER COLLECTION - GALS.	47	40	51				N.	35			
11. ESTIMATED STARTUP TIME		7-7-65						7-11-65			
		1300						1600			

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS		RECOVERIES		SCHEDULED OUTAGES		OTHER OUTAGES		DAILY PEAK ELECT. DEMAND - MEGAWATTS	
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING						
	0	1	2	1	3	1	1	3			0			220.0

REMARKS:

C - Reactor shut down at 0400 hours due to a water leak. Leak testing and miscellaneous maintenance are in progress.

KW - Reactor is continuing scheduled charge-discharge and maintenance.

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This document classified by

Long Paul

GROUP 1

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ROUGH DRAFT

AFTER FILL-IN

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ROUGH DRAFT
AFTER FILL-IN

REACTOR OPERATIONS DAILY REPORT

DATE 7/7/65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1725	0	1820				4320	0	3545	4320	7865
2. MAXIMUM POWER LEVEL - MW	1725	1720	1825				4335	0	5270	4335	9605
3. INPUT PRODUCTION - MWD	1725	579	1823				4327	0	4127	4327	8454
4. OUTAGE HOURS	0	13.9	0				0	24.0	13.9	24.0	37.9
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	-4650	-3441	+1037				+6336	1188	-7.0	+5.1	-1.9
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	18.9	18.2	17.6				17.0	17.8	136.1	206.4	342.5
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	94.8	82.9	94.8				94.8	C.U.	64.8	85.1	72.9
8. REACTOR WATER FLOW RATE AT 2330- GPM ± 10%	86.0	101.1	90.0				208.5	15.5	81.2	84.3	82.5
9. FACTOR LIMITING POWER LEVEL	B.O.		B.O.				B.O.		83.1	83.3	83.2
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.	38	43				N.				
11. ESTIMATED STARTUP TIME		7-9-65						7-11-65			
		0100						1600			

LINE 5 TOTALS IN MWDS

INPUT PROD. FORECAST FOR MO.

TIME OPER. EFF. - MO-TO-DATE

TIME OPER. EFF. - 30 DAY AVG.

TIME OPER. EFF. FORECAST FOR MO.

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
	0	1	2	1	3	1	1	3	0	240.0

REMARKS:

C - Resumed operation at 1352 hours concluding an outage due to a water leak. No leaks were found.

KW - Reactor continuing down for scheduled charge-discharge. 7/8/65 (12-8)

C - Reactor scrambled at 0245 hours by a low pressure Panellit trip on tube 4675. The trip was probably caused by an internal process tube leak.

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ROUGH DRAFT
AFTER FILL-IN

ROUGH DRAFT

AFTER FILL-IN

REACTOR OPERATIONS DAILY REPORT

DATE 7/8/65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1725	0	1820				4350	0	3545	4350	7895
2. MAXIMUM POWER LEVEL - MW	1725	1770	1820				4320	0	5315	4320	9635
3. INPUT PRODUCTION - MWD	1725	218	1819				4314	0	3762	4314	8076
4. OUTAGE HOURS	0	21.2	0				0	24.0	21.2	24.0	45.2
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	-4328	-4800	+1446				+7189	-4385	-7.7	+2.8	-4.9
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	18.7	17.9	17.9				16.8	17.9	LINE 5 TOTALS IN MWD'S		
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	94.7	19.2	94.8				94.8	C.U.	INPUT PROD. FORECAST FOR MO.		
8. REACTOR WATER FLOW RATE AT 2330- GPM ± 1000	86.0	98.0	90.0				208.0	15.5	136.1	206.4	342.5
9. FACTOR LIMITING POWER LEVEL	B.O.		B.O.				B.O.		TIME OPER. EFF. - MO-TO-DATE		
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.		36				N.		65.5	80.7	71.6
11. ESTIMATED STARTUP TIME		7-9-65							TIME OPER. EFF. - 30 DAY AVG.		
		1600							80.3	82.6	81.2
									TIME OPER. EFF. FORECAST FOR MO.		
									83.1	83.3	83.2

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS		RECOVERIES		SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING				
	0	1	3	1	3		1	3	1	3	0	232.0

REMARKS:

C - Reactor scrambled at 0245 hours by a low Panellit trip on thoria tube 4675. The trip was caused by the tube pulling apart. Startup not yet possible due to excessive water in the reactor.

KW - Reactor continuing down for scheduled charge-discharge and maintenance.

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AFTER FILL-IN

REACTOR OPERATIONS DAILY REPORT

DATE 7/9/65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1755	855	1820				4335	0	4430	4335	8765
2. MAXIMUM POWER LEVEL - MW	1740	700	1820				4350	0	4260	4350	8610
3. INPUT PRODUCTION - MWD	1728	245	1818				4338	0	3791	4338	8129
4. OUTAGE HOURS	0	11.1	0				0	24.0	11.1	24.0	35.1
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD											LINE 5 TOTALS IN KWWD'S
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	18.4	17.7	18.0				16.8	17.3			INPUT PROD. FORECAST FOR MO.
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	92.5	45.1	94.7				94.9	C.U.			TIME OPER. EFF. - MO-TO-DATE
8. REACTOR WATER FLOW RATE AT 2330- GPM ± 1000	89.5	99.3	90.0				208.5	15.3			TIME OPER. EFF. - 30 DAY AVG.
9. FACTOR LIMITING POWER LEVEL	B.O.	N.E.	B.O.				B.O.				TIME OPER. EFF. FORECAST FOR MO.
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.	110	15				N.				
11. ESTIMATED STARTUP TIME	DATE										
	HOUR										

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
										240

REMARKS:

C - Reactor resumed operation at 1104 hours concluding a water leak outage.
KW - Completed scheduled charge-discharge. Zirconium tube 2557 was removed and installed 85 RTDs

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AFTER FILL-IN

191

ROUGH DRAFT
AFTER FILL-IN

REACTOR OPERATIONS DAILY REPORT

DATE 7/10/5

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	0	1650	1820				4340	0	5245	4340	9585
2. MAXIMUM POWER LEVEL - MW	1775	1180	1820				4335	0	4775	4335	9110
3. INPUT PRODUCTION - MWD	1763	971	1819				4333	0	4553	4333	8886
4. OUTAGE HOURS	0	0	0				0	24.0	0	24.0	24.0
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD									LINE 5 TOTALS IN KWWD'S		
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	18.0	17.5	18.0				16.7	17.5			
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	93.8	62.9	94.8				94.8	C.U.			
8. REACTOR WATER FLOW RATE AT 2330- GPM $\pm$ 1000	89.5	99.0	90.0				208.5	15.3			
9. FACTOR LIMITING POWER LEVEL	B.O.	N.E.	B.O.				B.O.				
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.	297	N.				N.				
11. ESTIMATED STARTUP TIME	DATE										
	HOUR										

INPUT PROD. FORECAST FOR MO.

TIME OPER. EFF. - MO-TO-DATE

TIME OPER. EFF. - 30 DAY AVG.

TIME OPER. EFF. FORECAST FOR MO.

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
										238

REMARKS:

131 RTDs - Continuing maintenance work. 131 RTDs repaired. Changed 119 thoria orifices to venturis.

ROUGH DRAFT
AFTER FILL-IN

ROUGH DRAFT
AFTER FILL-IN

REACTOR OPERATIONS DAILY REPORT

DATE 7/11/65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	0	1780	1825				4355	0	3605	4355	7960
2. MAXIMUM POWER LEVEL - MW	1775	1650	1820				4340	0	5245	4340	9585
3. INPUT PRODUCTION - MWD	582	1420	1820				4336	0	3822	4336	8158
4. OUTAGE HOURS	16.0	0	0				0	24.0	16.0	24.0	40.0
5. INPUT PRODUCTION VARIANCE FROM FORECAST-N-T-D - MWD	-4464	-6896	+2673				+9812	-13976	-8.7	-4.1	-12.8
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	20.0	17.5	17.3				16.7	17.8	INPUT PROD. FORECAST FOR MO.		
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	26.2	80.6	94.5				94.6	C.U.	136.1	206.4	342.5
8. REACTOR WATER FLOW RATE AT 2330- GPM ÷ 1000	8.5	100.6	90.0				208.5	14.8	71.5	72.3	71.8
9. FACTOR LIMITING POWER LEVEL		N.E.	B.O.				B.O.		80.9	77.6	79.6
10. DAILY ABNORMAL WATER COLLECTION - GALS.		380	N.				N.		TIME OPER. EFF. - 30 DAY AVS.		
11. ESTIMATED STARTUP TIME	7-12-65 2000							7-12-65 2400	83.1	83.3	83.2
TIME OPER. EFF. FORECAST FOR MO.											

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS		RECOVERIES		SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.					COMPLETED	REMAINING		
	1	1	3	1	3	1	1	1	1	3	0	236.0

REMARKS:

B - Reactor shut down at 0759 hours for the removal of a stuck I&E natural metal rupture.

KW - Charge-discharge of thorium in progress.

ROUGH DRAFT

ROUGH DRAFT
AFTER FILL-IN

REACTOR OPERATIONS DAILY REPORT

DATE 7/12/65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1200	1975	1830				4350	0	5005	4350	9355
2. MAXIMUM POWER LEVEL - MW	0	1940	1825				4355	0	3765	4355	8120
3. INPUT PRODUCTION - MWD	9	1822	1824				4346	0	3646	4346	7992
4. OUTAGE HOURS	22.7	0	0				0	24.0	22.7	24.0	46.7
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	-5867	-6651	+3087				+10696	-17173	-9.4	-6.5	-15.9
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	18.4	17.5	17.2				16.3	17.7			
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	18.2	91.2	94.3				94.6	C.U.			
8. REACTOR WATER FLOW RATE AT 2330- GPM $\pm$ 1000	85.0	100.7	90.0				208.5	13.2	71.2	70.5	70.9
9. FACTOR LIMITING POWER LEVEL		N.E.	B.O.				B.O.		79.9	75.9	78.3
10. DAILY ABNORMAL WATER COLLECTION - GALS.		505	N.				N.				
11. ESTIMATED STARTUP TIME								7-13-65	83.1	83.3	83.2
								2000			

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS		RECOVERIES		SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING				
	1	1	3	1	3	1	1	3	0	0	240.0	

REMARKS:

B - Reactor resumed operation at 2245 hours concluding a rupture removal. The rupture in tube 3293 was removed by cutting tube ribs. The tube was replaced.
KW - Reactor completed scheduled charge-discharge and maintenance work. The rupture in tube 4558 was discharged with the charging machine. Replacement of tube 5179, due to a stuck charge, is in progress.

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REACTOR OPERATIONS DAILY REPORT

DATE 7/13/65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1620	2035	1825				4340	0	5480	4340	9820
2. MAXIMUM POWER LEVEL - MW	1535	2035	1830				4350	0	5400	4350	9750
3. INPUT PRODUCTION - MWC	1236	1996	1827				4342	0	5059	4342	9401
4. OUTAGE HOURS	0	0	0				0	24.0	0	24.0	24.0
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	-6034	-6232	+3504				+11577	-20370	-8.8	-8.7	-17.5
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	18.3	17.5	17.3				16.5	17.6	INPUT PROD. FORECAST FOR MO.		
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	82.0	94.5	94.3				94.7	C.U.	136.1	206.4	342.5
8. REACTOR WATER FLOW RATE AT 2330- GPM + 1000	89.5	101.9	90.2				208.5	13.2	73.5	68.9	71.6
9. FACTOR LIMITING POWER LEVEL	N.E.	B.O.	B.O.				B.O.		79.9	74.3	77.6
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.	257	N.				N.		TIME OPER. EFF. - 30 DAY AVG.		
11. ESTIMATED STARTUP TIME								7-14-65	83.1	83.3	83.2
								2000			

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS		RECOVERIES		SCHEDULED OUTAGES		OTHER OUTAGES		DAILY PEAK ELECT. DEMAND - MEGAWATTS	
	NAT.	EMP.	TUBE	V.S.			COMPLETED	REMAINING						
	1	1	3	1	3	1	1	3			0			240.0

REMARKS:

KW - Reactor removed stuck gunbarrel and broach from channel 5179.
Attempts to remove a piece of aluminum process tube from channel is in progress.

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REACTOR OPERATIONS DAILY REPORT

DATE _____

7/14/65

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My Friend

	B	C	D	DR	F	H	K'S	KE	KW	SWALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1730	2030	1815					4325	0	5575	4325	9900
2. MAXIMUM POWER LEVEL - MW	1720	2035	1825					4340	0	5580	4340	9920
3. INPUT PRODUCTION - MWD	1648	2034	1822					4330	0	5504	4330	9834
4. OUTAGE HOURS	0	0	0					0	24.0	0	24.0	24.0
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	-5789	-5775	+3916					+12446	-23567	-7.7	-11.1	-18.8
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	18.6	18.0	17.9					16.9	17.8	INPUT PROD. FORECAST FOR MO.		
7. BJLK OUTLET WATER TEMPERATURE AT 2330- C	91.7	95.0	94.7					94.6	18.3	136.1	206.4	342.5
8. REACTOR WATER FLOW RATE AT 2330- GPM + 1000	89.5	101.4	90.2					208.5	196.0	TIME OPER. EFF. - MO-TO-DATE		
9. FACTOR LIMITING POWER LEVEL	N.E.	B.O.	B.O.					B.O.		75.4	67.5	72.2
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.	130	N					N.		79.9	72.6	77.0
11. ESTIMATED STARTUP TIME										TIME OPER. EFF. - 10 DAY AVG.		
DATE										TIME OPER. EFF. FORECAST FOR MO.		
HOUR										83.1	83.3	83.2

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	EMR.	TUBE	V.S.			COMPLETED	REMAINING		
1	1		3	1	4	1	1	3	0	285.0

REMARKS:

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ROUGH DRAFT
AFTER F.

REACTOR OPERATIONS DAILY REPORT

DATE 7/15/65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1760	2015	1805				4315	3870	5580	8185	13765
2. MAXIMUM POWER LEVEL - MW	1750	2030	1815				4325	3600	5595	7925	13520
3. INPUT PRODUCTION - MWD	1737	2027	1813				4313	1415	5577	5728	11305
4. OUTAGE HOURS	0	0	0				0	10.6	0	10.6	10.6
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	-5455	-5325	+4319				+13297	-25349	-6.4	-12.1	-18.5
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	19.0	18.2	18.0				17.1	17.0			
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	93.2	95.0	94.5				94.7	82.0			
8. REACTOR WATER FLOW RATE AT 2330- GPM $\pm$ 1000	89.5	100.7	90.2				208.5	208.0	77.0	68.3	73.5
9. FACTOR LIMITING POWER LEVEL	B.O.	B.O.	B.O.				B.O.	N.E.	79.9	71.9	76.1
10. DAILY ABNORMAL WATER COLLECTION - GALS.	K.	143	N.				N.	N.			
11. ESTIMATED STARTUP TIME									83.1	83.3	83.2

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
	1	1	3	1	5	2	1	3	0	290.0

REMARKS:

KW - Reactor resumed operation at 0718 hours concluding a scheduled outage. Reactor was down from 0800 hours until 0936 hours due to a Panellit trip on tube 0271 caused by an upstream plugging. The reactor was manually scrambled at 1141 hours and was down until 1323 hours due to faulty RTDs.

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Cheryl Paulich

REACTOR OPERATIONS DAILY REPORT

DATE 7-16-65

	B	C	D	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1760	2015	0			4300	4240	3775	8540	12315
2. MAXIMUM POWER LEVEL - MW	1760	2015	1805			4325	4210	5580	8535	14115
3. INPUT PRODUCTION - MWD	1760	2015	1670			4306	3947	5445	8253	13698
4. OUTAGE HOURS	0	0	1.8			0	0	1.8	0	1.8
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD										
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	19.0	18.2	19.8			17.0	17.0			
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	93.7	94.8	27.2			94.8	93.2			
8. REACTOR WATER FLOW RATE AT 2330- GPM ± 1000	89.5	101.8	32.0			208.0	209.5			
9. FACTOR LIMITING POWER LEVEL	BO	BO				BO	NE			
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N	123				N	45			
11. ESTIMATED STARTUP TIME	DATE	HOUR								
LINE 8 TOTALS IN KWWD'S										
INPUT PROD. FORECAST FOR MO.										
TIME OPER. EFF. - MO-TO-DATE										
TIME OPER. EFF. - 30 DAY AVG.										
TIME OPER. EFF. FORECAST FOR MO.										

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	Y.S.			COMPLETED	REMAINING		
										292.0

REMARKS:

D Reactor: Manually scrambled at 2213 hours due to an I&E natural metal rupture in tube 2668.

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REACTOR OPERATIONS DAILY REPORT

DATE 7-17-65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1765	2015	0				4310	4270	3780	8580	12360
2. MAXIMUM POWER LEVEL - MW	1765	2015	0				4300	4260	3780	8560	12340
3. INPUT PRODUCTION - MWD	1763	2015	0				4296	4246	3778	8542	12320
4. OUTAGE HOURS	0	0	24.0				0	0	24.0	0	24.0
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD										LINE 5 TOTALS IN KWWD'S	
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	19.0	18.6	19.8				17.2	17.0			
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	94.1	94.9	25.0				94.7	94.2			
8. REACTOR WATER FLOW RATE AT 2330- GPM ± 1000	89.5	101.4	6.0				208.0	209.5			
9. FACTOR LIMITING POWER LEVEL	BO	BO					BO	NE			
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N	111					N	N			
11. ESTIMATED STARTUP TIME	DATE										
	HOURL										

INPUT PROD. FORECAST FOR MO.

TIME OPER. EFF. - MO-TO-DATE

TIME OPER. EFF. - 30 DAY AVG.

TIME OPER. EFF. FORECAST FOR MO.

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
										263.0

REMARKS:

D Reactor: Removed the I&E natural metal rupture from tube 2668 with the charging machine. Scheduled charge-discharge planned for 7-19-65 will be completed.

ROUGH DRAFT
AFTER FILL-IN

ROUGH DRAFT

REACTOR OPERATIONS DAILY REPORT

DATE 7-18-65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1770	2015	0				4300	4270	3875	8570	12445
2. MAXIMUM POWER LEVEL - MW	1770	2015	0				4310	4270	3785	8580	12365
3. INPUT PRODUCTION - MWD	1767	2015	0				4294	4268	3782	8562	12344
4. OUTAGE HOURS	0	0	24.0				0	0	24.0	0	24.0
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	-4374	-4011	+1759				+15810	-22.479	-6.6	-6.7	-13.3
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	19.1	18.6	20.3				17.2	17.0	136.1	206.4	342.5
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	94.5	95.0	23.5				94.8	94.5	TIME OPER. EFF. - MO-TO-DATE		
8. REACTOR WATER FLOW RATE AT 2330- GPM ÷ 1000	89.5	101.1	6.3				208.0	209.0	77.0	73.5	75.6
9. FACTOR LIMITING POWER LEVEL	BQ	BQ					BQ	BQ	79.4	71.9	76.4
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N	100					N	50	TIME OPER. EFF. FORECAST FOR MO.		
11. ESTIMATED STARTUP TIME			7-21-65						83.1	83.3	83.2
			1200								

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
	2	1	3	1	5	2	2	1	0	263.0

REMARKS:

D Reactor: Completed charge-discharge of thorium. Regular charge-discharge is in progress.

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REACTOR OPERATIONS DAILY REPORT

DATE 7-19-65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0900 FOLLOWING DAY - MW	1770	0	0				4310	4270	1770	8580	10350
2. MAXIMUM POWER LEVEL - MW	1770	2020	0				4300	4270	3790	8570	12360
3. INPUT PRODUCTION - MWD	1770	1951	0				4287	4270	3721	8557	12278
4. OUTAGE HOURS	0	0.7	24.0				0	0	24.7	0	24.7
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	-4007	-3637	+349				+16635	-21406	-7.3	-4.8	-12.1
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	19.0	18.5	19.8				17.3	17.1	136.1	206.4	142.5
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	94.4	25.0	22.8				94.5	94.6	76.4	74.9	75.8
8. REACTOR WATER FLOW RATE AT 2330- GPM $\pm$ 1000	89.5	97.1	5.1				208.0	209.0	79.3	71.9	76.3
9. FACTOR LIMITING POWER LEVEL	B0						B0	B0	83.1	83.3	83.2
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N	84					N	20			
11. ESTIMATED STARTUP TIME		7-21-65 2330	7-21-65 1200								

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS		RECOVERIES		SCHEDULED OUTAGES		OTHER OUTAGES		DAILY PEAK ELECT. DEMAND - MEGAWATTS
	HAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING					
	2	2	3	1	5	2	2	1			0		265.0

REMARKS:

C - Reactor shut down at 2317 hours for the removal of a stuck I&E enriched metal rupture from tube 2782.

D - Reactor is continuing scheduled charge-discharge and maintenance work

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Ray Trudick

REACTOR OPERATIONS DAILY REPORT

DATE 7-20-65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1770	0	0				4310	4275	1770	8585	10355
2. MAXIMUM POWER LEVEL - MW	1770	0	0				4310	4270	1770	8580	10350
3. INPUT PRODUCTION - MWD	1770	0	0				4303	4270	1770	8573	10343
4. OUTAGE HOURS	0	24.0	24.0				0	0	48.0	0	48.0
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	-3640	-5214	-1061				+17477	-20333	-9.9	-2.9	-12.8
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	18.3	17.4	19.0				16.9	15.7	LINE 5 TOTALS IN KWWD'S		
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	93.9	19.8	22.3				94.7	94.1	136.1	206.4	342.5
8. REACTOR WATER FLOW RATE AT 2330- GPM $\pm$ 1000	89.5	34.0	6.2				208.0	209.0	74.2	76.2	75.0
9. FACTOR LIMITING POWER LEVEL	B0						B0	B0	78.2	71.9	75.7
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N						N	35	TIME OPER. EFF. - 30 DAY AVG.		
11. ESTIMATED STARTUP TIME	DATE	7-21-65	7-21-65						TIME OPER. EFF. FORECAST FOR MO.		
	STARTUP TIME	2330	2330						83.1	83.3	83.2

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
	2	2	3	3	5	2	2	1	0	248.0

REMARKS:

C Reactor: The stuck I&E enriched metal rupture in tube 2782 was removed using 4500 lbs. pressure. Tie-in of the diesel powered raw water backup facilities is in progress.

D Reactor: Continuing down for scheduled charge-discharge and maintenance work. Replaced 13 process tubes (including two tubes due to rear Van Stone flange failure).

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REACTOR OPERATIONS DAILY REPORT

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by *Long Trunk*

DATE 7-21-65

	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1775	1800	1250			4320	4300	4825	8620	13445
2. MAXIMUM POWER LEVEL - MW	1775	0	100			4320	4290	1875	8610	10485
3. INPUT PRODUCTION - MWD	1771	0	1			4315	4284	1772	8599	10371
4. OUTAGE HOURS	0	24.0	23.3			0	0	47.3	0	47.3
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	-3272	-6792	-2470			+18331	-19246	-12.5	-0.9	-13.4
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	17.9	17.8	18.2			16.4	16.2	136.1	206.4	342.5
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	93.6	20.7	19.0			94.5	94.1	72.3	77.3	74.3
8. REACTOR WATER FLOW RATE AT 2330- GPM ÷ 1000	89.6	34.2	86.0			208.0	209.0	76.8	71.9	74.8
9. FACTOR LIMITING POWER LEVEL	BO		NE			BO	BO	83.1	83.3	83.2
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N					N	N			
11. ESTIMATED STARTUP TIME	DATE									
	HOURLY									

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
	2	2	3	3	6	2	2	1	0	290.0

REMARKS:

C Reactor: Completed the tie-in of the diesel powered raw water back-up facilities. Miscellaneous maintenance in progress.

D Reactor: Resumed operation at 2319 hours concluding a scheduled outage following a rupture removal.

7-22-65 (12-8):

C Reactor resumed operation at 0500 hours concluding a rupture removal outage.

D Reactor was down from 0156 until 0437 hours due to a low Panellit trip on tube 0174 caused by foreign material partially plugging the orifice screen.

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REACTOR OPERATIONS DAILY REPORT

DATE 7-22-65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1775	1900	1760				4310	0	5435	4310	9745
2. MAXIMUM POWER LEVEL - MW	1775	1835	1660				4320	4300	5270	8620	13890
3. INPUT PRODUCTION - MWD	1775	1291	1047				4310	2232	4113	6542	10655
4. OUTAGE HOURS	0	5.0	3.7				0	11.5	8.7	11.5	20.2
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	-2900	-7078	-2833				+19179	-20211	-12.8	-1.1	-13.9
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	18.7	17.7	18.0				17.0	18.5	136.1	206.4	342.5
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	94.5	87.2	88.5				94.7	26.9	73.0	77.3	74.7
8. REACTOR WATER FLOW RATE AT 2330- GPM $\pm$ 1000	89.5	101.0	89.7				208.0	15.6	76.4	71.1	74.3
9. FACTOR LIMITING POWER LEVEL	BO	NE	NE				BO		TIME OPER. EFF. - 30 DAY AVG.		
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N	56	69				N	40	TIME OPER. EFF. FORECAST FOR MO.		
11. ESTIMATED STARTUP TIME								7-23-65	83.1	83.3	83.2

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS		RECOVERIES		SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.					COMPLETED	REMAINING		
	2	3	3	3	7	3			2	1	0	295.0

REMARKS:

C Reactor resumed operation at 0500 hours concluding a rupture removal outage.

D Reactor was down from 0156 until 0437 hours due to a low Panellit trip on tube 0174 caused by foreign material partially plugging the orifice screen. The reactor scrambled at 0915 hours and was down until 1012 hours due to loss of power to six of the eight primary pumps at 190 Bldg. caused when the 230 kv bus tie breaker opened during critical "W" operation and removed power from two of the three transformer banks.

KW Reactor scrambled at 1228 hours due to a stuck I&E enriched metal rupture in tube 2964. Discharged rupture prone material. Removal of the stuck rupture in progress.

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REACTOR OPERATIONS DAILY REPORT

DATE 7-23-65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1775	2000	1800				4290	3500	5575	7790	13365
2. MAXIMUM POWER LEVEL - MW	1775	1985	1800				4310	0	5560	4310	9870
3. INPUT PRODUCTION - MWD	1775	1922	1771				4293	0	5468	4293	9761
4. OUTAGE HOURS	0	0	0				0	24.0	0	24.0	24.0
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD									LINE 5 TOTALS IN KW'D'S		
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	18.9	17.9	18.1				17.0	17.0	INPUT PROD. FORECAST FOR MO.		
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	94.7	93.6	94.8				94.7	17.1	TIME OPER. EFF. - MO-TO-DATE		
8. REACTOR WATER FLOW RATE AT 2330- GPM ÷ 1000	89.4	101.0	89.8				208.0	196.0	TIME OPER. EFF. - 30 DAY AVG.		
9. FACTOR LIMITING POWER LEVEL	B0	NE	B0				B0		TIME OPER. EFF. FORECAST FOR MO.		
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N	68	60				N				
11. ESTIMATED STARTUP TIME											

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
										287.0

REMARKS:

KW - The I&E enriched failure was removed from tube 2964.
Charge-discharge is in progress.

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REACTOR OPERATIONS DAILY REPORT

DATE 7-24-65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1775	2010	1800				4280	4100	5585	8380	13965
2. MAXIMUM POWER LEVEL - MW	1775	2010	1800				4290	4000	5585	8290	13875
3. INPUT PRODUCTION - MWD	1775	2003	1800				4281	3151	5578	7432	13010
4. OUTAGE HOURS	0	0	0				0	1.3	0	1.3	1.3
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD									LINE 5 TOTALS IN KWWD'S		
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	19.0	18.2	18.0				17.2	17.0	INPUT PROD. FORECAST FOR MO.		
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	94.8	94.6	94.5				94.8	89.5	TIME OPER. EFF. - MO-TO-DATE		
8. REACTOR WATER FLOW RATE AT 2330- GPM ÷ 1000	89.8	101.4	89.8				208.0	209.8	TIME OPER. EFF. - 30 DAY AVG.		
9. FACTOR LIMITING POWER LEVEL	BO	BO	BO				BO	NE	TIME OPER. EFF. FORECAST FOR MO.		
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N	63	35				N	N			
11. ESTIMATED STARTUP TIME											

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
										292.0

REMARKS:

KW - Resumed operation at 0116 hours.

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REACTOR OPERATIONS DAILY REPORT

DATE 7-25-65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1715	2005	1790				4270	4250	5570	8520	14090
2. MAXIMUM POWER LEVEL - MW	1775	2010	1800				4280	4210	5585	8490	14075
3. INPUT PRODUCTION - MWD	1775	2009	1798				4267	4124	5582	8391	13973
4. OUTAGE HOURS	0	0	0				0	0	0	0	0
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	-1789	-5874	-1694				+21637	-22527	-9.4	-0.9	-10.3
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	19.2	18.6	18.6				17.5	17.3	LINE 5 TOTALS IN KWWD'S		
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	95.0	94.8	94.8				94.7	93.4	INPUT PROD. FORECAST FOR MO.		
8. REACTOR WATER FLOW RATE AT 2330- GPM ± 1000	89.5	100.9	89.8				208.0	209.5	136.1	206.4	342.5
9. FACTOR LIMITING POWER LEVEL	B0	B0	B0				B0	NE	76.3	77.9	76.9
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N	52	23				N	N	77.9	72.9	75.9
11. ESTIMATED STARTUP TIME									TIME OPER. EFF. - 30 DAY AVG.		
									83.1	83.3	83.2
									TIME OPER. EFF. FORECAST FOR MO.		

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
	2	3	3	3	7	3	2	1	0	292.0

REMARKS:

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REACTOR OPERATIONS DAILY REPORT

DATE 7-26-65

by *Larry Prud'homme*

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1775	2000	1780				4260	4255	5555	8515	14070
2. MAXIMUM POWER LEVEL - MW	1775	2005	1790				4270	4255	5570	8525	14095
3. INPUT PRODUCTION - MWD	1775	2004	1789				4259	4248	5568	8507	14075
4. OUTAGE HOURS	0	0	0				0	0	0	0	0
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	-1417	-5447	-1315				+22434	-21476	-8.1	+1.0	-7.1
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	19.3	18.6	18.8				17.8	17.6	LINE 5 TOTALS IN KWWD'S		
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	95.0	94.9	94.8				94.8	94.6	INPUT PROD. FORECAST FOR MO.		
8. REACTOR WATER FLOW RATE AT 2330- GPM $\div$ 1000	89.5	100.6	89.8				203.0	209.5	136.1	206.4	342.5
9. FACTOR LIMITING POWER LEVEL	BO	BO	BO				BO	BO	TIME OPER. EFF. - MO-TO-DATE		
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N	53	53				N	N	77.2	78.7	77.8
11. ESTIMATED STARTUP TIME									TIME OPER. EFF. - 30 DAY AVG.		
									77.9	75.1	76.8
									TIME OPER. EFF. FORECAST FOR MO.		
									83.1	83.3	83.2

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS		RECOVERIES		SCHEDULED OUTAGES		OTHER OUTAGES		DAILY PEAK ELECT. DEMAND - MEGAWATTS	
	NAT.	ENR.	TUBE	V.S.					COMPLETED	REMAINING				
	2	3	3	3		7	3		2	1	0		294.0	

REMARKS:

At 0140 hours galvanometer fluctuations were noted at all reactors except D. It is presumed that an earth tremor occurred. A second tremor was noted at 0501 hours.

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REACTOR OPERATIONS DAILY REPORT

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DATE 7-27-65

7-27-65

	B	C	D	DR	F	H	XE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1760	0	1765				4240	4245	3525	8485	12010
2. MAXIMUM POWER LEVEL - MW	1775	2000	1780				4270	4255	5555	8525	14080
3. INPUT PRODUCTION - MWD	1770	1998	1776				4247	4251	5544	8498	14052
4. OUTAGE HOURS	0	0	0				0	0	0	0	0
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	-1051	-5027	-949				+23220	-20422	-7.0	+2.8	-4.2
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	19.9	19.3	19.5				18.2	18.0			
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	95.0	94.8	94.2				94.8	94.9			
8. REACTOR WATER FLOW RATE AT 2330- GPM ± 1000	89.4	101.2	89.8				208.0	209.5	78.0	79.5	78.6
9. FACTOR LIMITING POWER LEVEL	BO	BO	BO				BO	BO	77.9	78.5	78.1
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N	57	45				N	45			
11. ESTIMATED STARTUP TIME		8-1-65							83.1	83.3	83.2
		1000									
12. COMBINED REACTORS MONTH-TO-DATE	3	3	3	3	7	3	3	0	0	0	293.0

REMARKS: 7-28-65 (12-8)

C - Reactor shut down at 0327 hours for the removal of an overbore rupture in tube 3264. The reactor will remain down for scheduled charge-discharge and maintenance.

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REACTOR OPERATIONS DAILY REPORT

DATE 7-28-65

by Roy E. Danner

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1745	0	1760				4230	4215	3505	8445	11950
2. MAXIMUM POWER LEVEL - MW	1760	1990	1765				4240	4245	5515	8485	14000
3. INPUT PRODUCTION - MWD	1758	282	1764				4226	4236	3804	8462	12266
4. OUTAGE HOURS	0	20.5	0				0	0	20.5	0	20.5
5. INPUT PRODUCTION VARIANCE FROM FORECAST-N-T-D - MWD	-696	-6323	-595				+23985	-19383	-7.6	+4.6	-3.0
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	20.3	19.2	20.1				18.7	18.3	LINE 3 TOTALS IN MWWD'S		
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	95.0	24.6	94.8				94.6	94.8	136.1	206.4	342.5
8. REACTOR WATER FLOW RATE AT 2330- GPM ± 1000	89.3	8.7	90.0				208.5	209.5	77.8	80.2	78.8
9. FACTOR LIMITING POWER LEVEL	BO		BO				BO	BO	77.0	80.8	78.5
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N		22				N	N	TIME OPER. EFF. - 30 DAY AVG.		
11. ESTIMATED STARTUP TIME		8-1-65							TIME OPER. EFF. FORECAST FOR MO.		
		1000							83.1	83.3	83.2

12. COMBINED REACTORS MONTH-TO-DATE	RIPTURES		WATER LEAKS		SCRAMS		RECOVERIES		SCHEDULED OUTAGES		OTHER OUTAGES		DAILY PEAK ELECT. DEMAND - MEGAWATTS	
	NAT.	ENR.	TUBE	V.S.					COMPLETED	REMAINING				
	3	3	3	3	7	3	3	3	3	0	0	0	276.0	

REMARKS:

C - Reactor shut down at 0327 hours for the removal of an overbore rupture from tube 3264. The rupture could not be removed using forces up to 10,000 lbs. The reactor will remain down for scheduled charge-discharge.

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AFTER FILL-IN

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REACTOR OPERATIONS DAILY REPORT

DATE 7-29-65

by Ray E. Shuman

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0600 FOLLOWING DAY - MW	1745	0	1750				4230	4205	3495	8435	11930
2. MAXIMUM POWER LEVEL - MW	1745	0	1760				4240	4215	3505	8455	11960
3. INPUT PRODUCTION - MWD	1745	0	1757				4219	4212	3502	8431	11933
4. OUTAGE HOURS	0	24.0	0				0	0	24.0	0	24.0
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	-354	-7900	-248				+24742	-18368	-8.5	+6.4	-2.1
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	20.4	19.3	20.0				18.8	18.5	136.1	206.4	342.5
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	94.9	23.2	94.4				94.7	94.7	77.4	80.9	78.8
8. REACTOR WATER FLOW RATE AT 2330- GPM ± 1000	89.2	5.3	90.0				80	80	76.2	81.6	78.4
9. FACTOR LIMITING POWER LEVEL	80		80				N	30	83.1	83.3	83.2
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N		N								
11. ESTIMATED STARTUP TIME		8-1-65 1000									

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS		RECOVERIES		SCHEDULED OUTAGES		OTHER OUTAGES		DAILY PEAK ELECT. DEMAND - MEGAWATTS	
	NAT.	ENR.	TUBE	V.S.					COMPLETED	REMAINING				
	3	3	3	3	7	3	3	3	3	0	0	0	270.0	

REMARKS:

C - Reactor continuing down for scheduled charge-discharge and maintenance. The stuck overbore rupture was removed from tube 3264 using 14,000 lbs. pressure. Also replaced six process tubes.

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ROUGH DRAFT

AFTER FILL-IN

REACTOR OPERATIONS DAILY REPORT

DATE 7-30-65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0600 FOLLOWING DAY - MW	1740	0	1755				0	4190	3495	4190	7685
2. MAXIMUM POWER LEVEL - MW	1745	0	1750				4230	4205	3495	8435	11930
3. INPUT PRODUCTION - MWD	1744	0	1750				1820	4201	3494	6021	9515
4. OUTAGE HOURS	0	24.0	0				13.9	0	24.0	13.9	37.9
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD									LINE 3 TOTALS IN KWWD'S		
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	20.7	19.8	20.2					18.9	INPUT PROD. FORECAST FOR MO.		
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	95.0	22.4	94.6				C.U.	94.8	TIME OPER. EFF. - MO-TO-DATE		
8. REACTOR WATER FLOW RATE AT 2330- GPM $\pm$ 1000	88.7	7.4	90.0				20.0	209.5	TIME OPER. EFF. - 30 DAY AVG.		
9. FACTOR LIMITING POWER LEVEL	B.O.		B.O.					B.O.	TIME OPER. EFF. FORECAST FOR MO.		
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N		N								
11. ESTIMATED STARTUP TIME	DATE										
	HOUR										

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		

REMARKS:
 C - Reactor continuing down for scheduled charge-discharge. A thoria failure was removed from tube 3853 using 1500 pounds pressure.

RE - Reactor scrammed at 1005 hours due to a low pressure trip on KER single pass tubes. The trip was apparently caused when a valve was opened to a low pressure pump.

ROUGH DRAFT

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ROUGH DRAFT
AFTER FILL-IN

REACTOR OPERATIONS DAILY REPORT

DATE 7-31-65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1750	0	1755				0	0	3505	0	3505
2. MAXIMUM POWER LEVEL - MW	1750	0	1760				0	4190	3510	4190	7700
3. INPUT PRODUCTION - MWD	1743	0	1755				0	1539	3498	1539	5037
4. OUTAGE HOURS	0	24.0	0				24.0	15.1	24.0	39.1	63.1
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	+326	-11064	+437				+19640	-19022	-10.3	+0.6	-9.7
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	20.6	20.2	20.3				20.8	19.9	136.1	206.4	342.5
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	95.0	22.2	94.9				C.U.	C.U.	76.7	78.6	77.5
8. REACTOR WATER FLOW RATE AT 2330- GPM ÷ 1000	89.5	7.3	89.9				19.3	23.2	78.8	77.9	78.4
9. FACTOR LIMITING POWER LEVEL	BO		BO								
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N	N	N								
11. ESTIMATED STARTUP TIME											
									83.1	83.3	83.2

INPUT PROD. FORECAST FOR MO.

TIME OPER. EFF. - MO-TO-DATE

TIME OPER. EFF. - 30 DAY AVG.

TIME OPER. EFF. FORECAST FOR MO.

12. COMBINED REACTORS MONTH-TO-DATE	# RUPTURES NAT.	WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
		ENR.	V.S.			COMPLETED	REMAINING		
	3	3	3	7	3	3	0	0	273.0

*One thoria failure not included.

REMARKS:
C - Reactor continuing down for scheduled charge-discharge and maintenance.

KE - Reactor continuing down for charge-discharge following a trip on KER single pass tubes.

KW - Reactor shut down at 0854 hours when the No. 3 boiler at 165-KW became damaged to the extent that it had to be removed from service. No details as to cause and extent of boiler damage are yet available.

Reactor input production for July (332.8 KMWds) was 97.2% of forecast.

ROUGH DRAFT
AFTER FILL-IN

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DRAFT

AFTER FILL-IN

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REACTOR OPERATIONS DAILY REPORT

DATE 8-1-65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0900 FOLLOWING DAY - MW	0	1530	1745				3980	3500	3275	7480	10755
2. MAXIMUM POWER LEVEL - MW	1750	0	1755				3400	2500	3505	5900	9405
3. INPUT PRODUCTION - MWD	1750	0	1751				1136	96	3501	1232	4733
4. OUTAGE HOURS	0	24.0	0				13.5	21.4	24.0	34.9	58.9
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD									LINE 8 TOTALS IN KWWD'S -0.8	-5.4	-6.2
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	21.0	21.1	21.9				19.9	19.5	132.3	204.1	336.4
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	94.9	22.3	94.9				80.4	54.0	TIME OPER. EFF. - MO-TO-DATE		
8. REACTOR WATER FLOW RATE AT 2330- GPM $\div$ 1000	89.7	93.3	89.9				208.0	208.5	66.7	27.3	50.9
9. FACTOR LIMITING POWER LEVEL	BO		BO				NE	NE	79.5	75.5	77.9
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N	11	N						TIME OPER. EFF. FORECAST FOR MO.	84.0	83.2
11. ESTIMATED STARTUP TIME	5-5-65 2330										

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
	0	0	0	0	1	1	1	3	0	210.0

REMARKS:

KE - Resumed operation at 1300 hours concluding an outage caused by a trip on KER single pass tubes. Reactor screamed from 1527 hours to 1558 hours by a Panellit trip caused by an oscillating gage on thorium tube 1398.

KW - Resumed operation at 2126 hours concluding an outage caused by the loss of No. 3 boiler.

B-2-65 - 12-8 Shift:

B - Reactor shut down at 0300 hours for scheduled charge-discharge and maintenance.

C - Resumed operation at 0223 hours concluding scheduled charge-discharge and maintenance.

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AFTERMATH - IN

REACTOR OPERATIONS DAILY REPORT

DATE 8-2-65

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by Tommy Fradette 2

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	0	1875	1745				4200	4100	3620	8300	11920
2. MAXIMUM POWER LEVEL - MW	1750	1810	1745				4170	4000	5305	8170	13475
3. INPUT PRODUCTION - MWD	233	1404	1745				3979	3633	3382	7612	10994
4. OUTAGE HOURS	21.0	2.4	0				0	0	23.4	0	23.4
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	-803	-1686	+838				-1356	-2967	-1.6	-4.4	-6.0
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	23.4	19.8	20.8				19.1	19.0	132.3	204.1	336.4
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	28.8	88.5	94.8				94.3	91.3	TIME OPER. EFF. - MO-TO-DATE		
8. REACTOR WATER FLOW RATE AT 2330- GPM ÷ 1000	6.1	100.5	89.9				208.5	209.5	67.1	63.6	65.7
9. FACTOR LIMITING POWER LEVEL		NE	BO				NE	NE	TIME OPER. EFF. - 30 DAY AVG.		
10. DAILY ABNORMAL WATER COLLECTION - GALS.		68	N				N	N	79.6	75.5	77.9
11. ESTIMATED STARTUP TIME	8-5-65 2330								82.7	84.0	83.2

	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
12. COMBINED REACTORS MONTH-TO-DATE	0	0	0	0	1	1	1	3	0	273.0

REMARKS:

B - Reactor shut down at 0300 hours for scheduled charge-discharge.

C - Resumed operation at 0223 hours concluding scheduled work during an outage initiated by a failed fuel element.

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AFTER FILM-IN

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ROUGH DRAFT

AFTER FILL-IN

REACTOR OPERATIONS DAILY REPORT

DATE 8-3-65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	0	1955	1740				4190	4170	3695	8360	12055
2. MAXIMUM POWER LEVEL - MW	0	1950	1745				4200	4160	3695	8360	12055
3. INPUT PRODUCTION - MWD	0	1890	1742				4193	4102	3632	8385	12017
4. OUTAGE HOURS	24.0	0	0				0	0	24.0	0	24.0
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	-2196	-1341	+1251				-398	-2214	-2.3	-2.5	-4.8
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	23.2	19.9	20.6				18.9	18.6	132.3	204.1	336.4
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	27.4	94.1	94.5				95.0	93.9	66.9	75.8	70.5
8. REACTOR WATER FLOW RATE AT 2330- GPM ÷ 1000	6.1	99.9	90.0				208.5	209.5	79.3	75.5	77.8
9. FACTOR LIMITING POWER LEVEL		NE	BO				BO	NE	82.7	84.0	83.2
10. DAILY ABNORMAL WATER COLLECTION - GALS.		40	N				N	35			
11. ESTIMATED STARTUP TIME	8-5-65 2330										

INPUT PROD. FORECAST FOR MO.

TIME OPER. EFF. - MO-TO-DATE

TIME OPER. EFF. - 30 DAY AVG.

TIME OPER. EFF. FORECAST FOR MO.

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
	0	0	0	0	1	1	1	3	0	268.0

REMARKS:

B - Reactor continuing down for scheduled charge-discharge and maintenance work.

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ROUGH DRAFT
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REACTOR OPERATIONS DAILY REPORT

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DATE 8-4-65

by Tony Prudick

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	0	1950	1740				4190	4200	3690	8390	12080
2. MAXIMUM POWER LEVEL - MW	0	1955	1740				4190	4200	3695	8390	12085
3. INPUT PRODUCTION - MWD	0	1953	1740				4190	4188	3693	8378	12071
4. OUTAGE HOURS	24.0	0	0				0	0	24.0	0	24.0
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	-3589	-933	+1662				+556	-1375	-2.9	-0.8	-3.7
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	23.0	19.8	20.0				18.8	18.5	LINE 5 TOTALS IN KW/DT'S		
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	27.0	94.3	94.2				94.6	94.7	INPUT PROD. FORECAST FOR MO.		
8. REACTOR WATER FLOW RATE AT 2330- GPM $\pm$ 1000	7.0	99.4	89.8				208.0	209.0	132.3	204.1	336.4
9. FACTOR LIMITING POWER LEVEL		BO	BO				BO	BO	66.9	81.8	72.9
10. DAILY ABNORMAL WATER COLLECTION - GALS.		26	N				N	N	78.2	75.6	77.2
11. ESTIMATED STARTUP TIME	8-6-65 2330								TIME OPER. EFF. - 30 DAY AVG.		
									82.7	84.0	83.2
									TIME OPER. EFF. FORECAST FOR MO.		

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
	0	0	0	0	1	1	1	3	0	270.0

REMARKS:

B - Reactor continuing down for charge-discharge and maintenance work.

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Long Paul

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AFTER FILL-IN

REACTOR OPERATIONS DAILY REPORT

DATE 8-5-65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	0	1990	0				4190	4195	1990	8385	10375
2. MAXIMUM POWER LEVEL - MW	0	1950	1740				4190	4200	3690	8390	12080
3. INPUT PRODUCTION - MWD	0	1950	1740				4188	4199	3690	8387	12077
4. OUTAGE HOURS	24.0	0	0				0	0	24.0	0	24.0
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	-4982	-529	+2073				+1508	-524	-3.4	+1.0	-2.4
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	23.2	19.8	20.2				19.0	18.7	LINE 5 TOTALS IN KWWD'S		
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	26.0	94.4	94.3				94.7	94.7	INPUT PROD. FORECAST FOR MO.		
8. REACTOR WATER FLOW RATE AT 2330- GPM ± 1000	5.9	101.3	89.8				208.0	209.0	132.3	204.1	336.4
9. FACTOR LIMITING POWER LEVEL		I.A.L.*	B0				B0	B0	66.8	85.5	74.3
10. DAILY ABNORMAL WATER COLLECTION - GALS.		23	N				N	32	78.0	77.3	77.7
11. ESTIMATED STARTUP TIME	8-6-65 2330		8-9-65 2000						82.7	84.0	83.2
TIME OPER. EFF. - 30 DAY AVG.											
TIME OPER. EFF. - MO-TO-DATE											
TIME OPER. EFF. FORECAST FOR MO.											

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
	0	0	0	0	1	1	2	2	0	270.0

REMARKS:

- Completed scheduled charge-discharge and maintenance work. Water leak testing is in progress.

- Internal Administrative Limit is due to a broken spline in tube 1164.

- Reactor shut down at 2400 hours for scheduled charge-discharge and maintenance work.

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ROUGH DRAFT

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by *Greg Pindick*- ROUGH DRAFT
AFTER FILL-IN

REACTOR OPERATIONS DAILY REPORT

DATE 8-6-65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1350	1970	0				4165	4170	3320	8335	11655
2. MAXIMUM POWER LEVEL - MW	0	1970	0				4190	4195	1970	8385	10355
3. INPUT PRODUCTION - MWD	0	1966	0				4180	4187	1966	8367	10333
4. OUTAGE HOURS	24.0	0	24.0				0	0	48.0	0	48.0
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD									LINE 5 TOTALS IN KWWD'S		
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	20.7	20.3	21.7				19.6	19.1	INPUT PROD. FORECAST FOR MO.		
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	20.0	94.1	28.0				94.6	94.8	TIME OPER. EFF. - MO-TO-DATE		
8. REACTOR WATER FLOW RATE AT 2330- GPM $\pm$ 1000	85.5	102.6	4.8				208.0	209.0	TIME OPER. EFF. - 30 DAY AVG.		
9. FACTOR LIMITING POWER LEVEL		I.A.L.					B.O.	B.O.	TIME OPER. EFF. FORECAST FOR MO.		
10. DAILY ABNORMAL WATER COLLECTION - GALS.		25					N.	N.			
11. ESTIMATED STARTUP TIME											

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
										264.0

REMARKS:

- B - Reactor continuing down following scheduled charge-discharge for leak testing. Tube 1957 was replaced due to a failed rear Van Stone flange.
- D - Reactor continuing down for scheduled charge-discharge and maintenance.

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- ROUGH DRAFT
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AFTER FILL-IN

REACTOR OPERATIONS DAILY REPORT

DATE 8-7-65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1670	1960	0				4145	4145	3630	8290	11920
2. MAXIMUM POWER LEVEL - MW	1670	1970	0				4165	4170	3640	8335	11975
3. INPUT PRODUCTION - MWD	1321	1967	0				4152	4161	3288	8313	11601
4. OUTAGE HOURS	0.3	0	24.0				0	0	24.3	0	24.3
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD									LINE 5 TOTALS IN KAWD'S		
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	21.3	20.8	23.0				20.7	19.9	INPUT PROD. FORECAST FOR MO.		
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	91.7	94.5	26.0				94.7	94.9	TIME OPER. EFF. - MO-TO-DATE		
8. REACTOR WATER FLOW RATE AT 2330- GPM ± 1000	90.2	102.4	5.5				208.0	209.0	TIME OPER. EFF. - 30 DAY AVG.		
9. FACTOR LIMITING POWER LEVEL	N.E.	I.A.L.					B.O.	B.O.	TIME OPER. EFF. FORECAST FOR MO.		
10. DAILY ABNORMAL WATER COLLECTION - GALS.	20	24					N.	35			
11. ESTIMATED STARTUP TIME											

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
										269.0

REMARKS:

B - Resumed operation at 0018 hours.

D - Continuing down for scheduled charge-discharge and maintenance.

ROUGH DRAFT
AFTER FILL-IN

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ROUGH DRAFT
AFTER FILL-IN

REACTOR OPERATIONS DAILY REPORT

DATE 8-8-65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1690	1945	0				0	0	3635	0	3635
2. MAXIMUM POWER LEVEL - MW	1685	1960	0				4145	4145	3645	8290	11935
3. INPUT PRODUCTION - MWD	1676	1956	0				4103	4081	3632	8184	11816
4. OUTAGE HOURS	0	0	24.0				0	0	24.0	0	24.0
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	-6168	+75.5	-1914				+4237	+1860	-7.3	+6.1	-1.2
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	21.5	20.9	21.2				20.0	19.9	LINE 8 TOTALS IN KW/MS		
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	93.0	94.2	22.3				94.5	94.7	INPUT PROD. FORECAST FOR MO.		
8. REACTOR WATER FLOW RATE AT 2330- GPM $\pm$ 1000	90.2	102.1	88.0				208.0	209.0	132.3	204.1	336.4
9. FACTOR LIMITING POWER LEVEL	N.E.	I.A.L.					B.O.	B.O.	TIME OPER. EFF. - MO-TO-DATE		
10. DAILY ABNORMAL WATER COLLECTION - GALS.	21	20					N.	N.	62.6	90.9	73.9
11. ESTIMATED STARTUP TIME									75.7	82.3	78.3
									TIME OPER. EFF. FORECAST FOR MO.		
									82.7	84.0	83.2

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	Y.S.			COMPLETED	REMAINING		
	0	0	0	1	1	1	4	0	0	292.0

REMARKS:

D - Reactor continuing down for scheduled charge-discharge and maintenance

VENTURE KE & KW - Both reactors were shut down at 2400 hours for scheduled charge-discharge and cleaning of the cross-tie system.

8/9/65 (12-8)

D - Resumed operation at 0353 hours and shut down at 0548 hours for Venturi changes on four tubes.

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AFTER FILL-IN

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AFTER FILL-IN

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REACTOR OPERATIONS DAILY REPORT

DATE 8/9/65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1700	1955	1750				0	0	5405	0	5405
2. MAXIMUM POWER LEVEL - MW	1700	1955	1700				0	0	5355	0	5355
3. INPUT PRODUCTION - MWD	1696	1949	915				0	0	4560	0	4560
4. OUTAGE HOURS	0	0	7.9				24.0	24.0	7.9	48.0	55.9
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	-5865	+1159	-2328				+4241	+1863	-7.0	+6.1	-0.9
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	21.4	20.9	20.7				21.9	20.7	LINE 5 TOTALS IN KWWD'S		
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	93.7	94.2	92.8				C.U.	C.U.	INPUT PROD. FORECAST FOR MO.		
8. REACTOR WATER FLOW RATE AT 2330- GPM ÷ 1000	90.2	102.5	90.0				11.5	17.5	65.5	80.8	71.6
9. FACTOR LIMITING POWER LEVEL	N.E.	I.A.L.	N.E.						75.3	80.6	77.4
10. DAILY ABNORMAL WATER COLLECTION - GALS.	13	13	N.				8-13-65 1600	30	TIME OPER. EFF. - 30 DAY AVG.		
11. ESTIMATED STARTUP TIME									82.7	84.0	83.2

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	EHR.	TUBE	V.S.			COMPLETED	REMAINING		
	0	0	0	1	1	1	4	0	1	188.0

REMARKS:

D - Resumed operation at 0353 hours concluding a scheduled outage. The reactor was down from 0548 hours until 0946 hours for venturi changes on four tubes.

KE-KW - Both reactors are continuing down for scheduled charge-discharge. KE Reactor has completed recharging of 188 fringe thoria tubes.

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REACTOR OPERATIONS DAILY REPORT

DATE 8/10/65

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E. P. Pradich

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1710	1955	1740				0	0	5405	0	5405
2. MAXIMUM POWER LEVEL - MW	1710	1955	1750				0	0	5415	0	5415
3. INPUT PRODUCTION - MWD	1703	1955	1742				0	0	5400	0	5400
4. OUTAGE HOURS	0	0	0				24.0	24.0	0	48.0	48.0
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	-5556	+1568	-1915				+424.1	+1863	-5.9	+6.1	+0.2
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	21.5	20.9	20.9				21.6	20.9	132.3	204.1	336.4
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	94.2	94.5	94.2				C.U.	C.U.	TIME OPER. EFF. - MO-TO-DATE		
8. REACTOR WATER FLOW RATE AT 2330- GPM ± 1000	90.2	102.4	90.0				16.0	16.5	68.9	72.7	70.5
9. FACTOR LIMITING POWER LEVEL	N.E.	I.A.L.	B.O.						76.1	78.9	77.2
10. DAILY ABNORMAL WATER COLLECTION - GALS.	10	30	40						TIME OPER. EFF. FORECAST FOR MO.		
11. ESTIMATED STARTUP TIME							8-13-65	8-13-65	82.7	84.0	83.2
							1600	1600			

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ZMR.	TUBE	V.S.			COMPLETED	REMAINING		
	0	0	0	1	1	1	4	0	1	188.0

REMARKS:

Continuing down for scheduled charge-discharge and cleaning of the cross-tie system. The cross-tie cleaning is essentially completed and charge-discharge is in progress. The boring of VSR No. 49 is also in progress.

Reactor continuing down for scheduled charge-discharge and cross-tie system cleaning. Charge-discharge is essentially completed.

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REACTOR OPERATIONS DAILY REPORT

DATE 8/11/65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1715	1955	1740				0	0	5410	0	5410
2. MAXIMUM POWER LEVEL - MW	1715	1955	1740				0	0	5410	0	5410
3. INPUT PRODUCTION - MWD	1711	1955	1740				0	0	5406	0	5406
4. OUTAGE HOURS	0	0	0				24.0	24.0	0	48.0	48.0
5. INPUT PRODUCTION VARIANCE FROM FORECAST-N-T-D - MWD	-5238	+1978	-1506				+4241	+1863	-4.7	+6.1	+1.4
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	21.2	20.5	20.6				22.0	20.6	132.3	204.1	336.4
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	94.2	94.0	94.0				C.U.	C.U.	TIME OPER. EFF. - MO-TO-DATE		
8. REACTOR WATER FLOW RATE AT 2330- GPM $\pm$ 1000	89.8	102.6	90.0				12.8	16.9	71.8	66.1	69.5
9. FACTOR LIMITING POWER LEVEL	B.O.	I.A.L.	B.O.						TIME OPER. EFF. - 30 DAY AVG.		
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.	19	48						77.1	77.3	77.2
11. ESTIMATED STARTUP TIME							8-14-65	8-12-65	TIME OPER. EFF. FORECAST FOR MO.		
							0100	2000	82.7	84.0	83.2

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	EHR.	TUBE	V.S.			COMPLETED	REMAINING		
	0	0	0	1	1	1	4	0	1	186.0

REMARKS:

KE - Cleaning of the cross-tie system has been completed and boring of VSR channel No. 49 is continuing.

KW - Completed charge-discharge and cleaning of the cross-tie system. RTD repair and preparation for the cross-tie flow tests are in progress.

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REACTOR OPERATIONS DAILY REPORT

DATE 8/12/65

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Very Paul

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1720	1960	1745				0	3600	5425	3600	9025
2. MAXIMUM POWER LEVEL - MW	1720	1960	1745				0	600	5425	600	6025
3. INPUT PRODUCTION - MWD	1717	1955	1744				0	18	5416	18	5434
4. OUTAGE HOURS	0	0	0				24.0	22.9	0	46.9	46.9
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	-4915	+2388	-1089				+4241	+1881	-3.6	+6.1	+2.5
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	20.9	20.3	20.2				22.0	19.6	LINE 8 TOTALS IN KWWD'S		
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	94.3	94.1	94.0				C.U.	31.5	INPUT PROD. FORECAST FOR MO.		
8. REACTOR WATER FLOW RATE AT 2330- GPM $\pm$ 1000	89.7	102.4	90.0				16.0	200.0	132.3	204.1	336.4
9. FACTOR LIMITING POWER LEVEL	B.O.	I.A.L.	B.O.					N.E.	TIME OPER. EFF. - MO-TO-DATE		
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.	17	34						74.1	60.8	68.8
11. ESTIMATED STARTUP TIME									TIME OPER. EFF. - 30 DAY AVG.		
									77.1	75.7	76.5
									TIME OPER. EFF. FORECAST FOR MO.		
									82.7	84.0	83.2

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS		RECOVERIES		SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.					COMPLETED	REMAINING		
	0	0	0	1	1	1	1	1	4	0	1	238.0

REMARKS:

KE - Continuing down for scheduled work. The
The boring of VSR channel No. 49 was discontinued
after reaching about the first tube row. The
replacement of RTDs is continuing.

KW - Resumed operation at 2252 hours completing a scheduled
outage. Excessive water collection is being experienced
which may result in a reactor shutdown.

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DATE 8/13/65

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KE - Continuing down for scheduled work.

Repaired 85 RTDs; other miscellaneous maintenance in progress.

KW - Shut down at 0828 hours due to a water leak indication. Replaced leaking rear nozzle on tube 1755.

ROUGH DRAFT

REF ID: A66113

ROUGH DRAFT

AFTER FILL-IN

REACTOR OPERATIONS DAILY REPORT

DATE 8/14/65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1720	1960	1740				4100	3710	5420	7810	13230
2. MAXIMUM POWER LEVEL - MW	1720	1965	1750				3800	3550	5435	7350	12785
3. INPUT PRODUCTION - MWD	1720	1964	1748				1609	1338	5432	2947	8379
4. OUTAGE HOURS	0	0	0				10.0	11.8	0	21.8	21.8
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD									LINE 5 TOTALS IN KWWD'S		
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	21.0	20.6	20.9				20.0	19.9			
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	94.5	94.3	94.6				90.7	84.2			
8. REACTOR WATER FLOW RATE AT 2330- GPM $\div$ 1000	89.5	102.4	90.3				200.0	209.0			
9. FACTOR LIMITING POWER LEVEL	B.G.	I.A.L.	B.G.				N.E.	N.E.			
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.	19	38				N.				
11. ESTIMATED STARTUP TIME	DATE	DATE	DATE								
	HOUR	HOUR	HOUR								

INPUT PROD. FORECAST FOR MD.

TIME OPER. EFF. - MD-TO-DATE

TIME OPER. EFF. - 30 DAY AVG.

TIME OPER. EFF. FORECAST FOR MD.

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
										293.0

REMARKS:

KF - Reactor resumed operation at 0920 hours concluding a scheduled outage.
Reactor scrammed at 1505 hours due to an unexplained low Panellit trip on tube 2242. Resumed operation at 1546 hours.
KW - Reactor resumed operation at 1108 hours concluding a water leak outage
Reactor scrammed at 1231 hours due to an unexplained high Panellit trip on tube 0271. Resumed operation at 1315 hours.

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REACTOR OPERATIONS DAILY REPORT

DATE 8/15/65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1720	0	1735				4160	0	3455	4160	7615
2. MAXIMUM POWER LEVEL - MW	1720	1960	1740				4170	4060	5420	8230	13650
3. INPUT PRODUCTION - MWD	1720	1052	1737				4103	2693	4509	6796	11305
4. OUTAGE HOURS	0	11.0	0				0	7.0	11.0	7.0	18.0
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	-3936	+2731	-152				+1685	-1533	-1.0	+0.2	-0.8
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	21.3	20.6	21.2				20.1	20.3	132.3	204.1	336.4
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	95.0	23.0	94.6				94.5	24.0	78.3	59.1	70.6
8. REACTOR WATER FLOW RATE AT 2330- GPM ± 1000	89.0	25.8	90.3				210.0	15.4	76.7	73.3	75.3
9. FACTOR LIMITING POWER LEVEL	B.O.		B.O.				B.O.		82.7	84.0	83.2
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.	8-16-65	45				N.	65			
11. ESTIMATED STARTUP TIME		2100						8-16-65			

INPUT PROD. FORECAST FOR MO.

TIME OPER. EFF. - MO-TO-DATE

TIME OPER. EFF. - 30 DAY AVG.

TIME OPER. EFF. FORECAST FOR MO.

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS		RECOVERIES		SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.					COMPLETED	REMAINING		
	1	0	0	1	4	3			4	0	2	292.0

REMARKS:

C - Reactor shut down at 1300 hours for the removal of an I&E natural overbore metal rupture in tube 3067.
KW - Reactor scrambled at 1658 hours due to an unexplained high Panellit trip on tube 0271.

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Tony Condit

REACTOR OPERATIONS DAILY REPORT

DATE 8/16/65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1720	1325	1735				4180	3500	4780	7680	12460
2. MAXIMUM POWER LEVEL - MW	1720	0	1735				4160	0	3455	4160	7615
3. INPUT PRODUCTION - MWD	1720	0	1734				4160	0	3454	4160	7614
4. OUTAGE HOURS	0	24.0	0				0	24.0	24.0	24.0	48.0
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	-3609	+1186	+559				+1711	-5812	-1.9	-4.1	-6.0
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	21.5	20.7	21.0				20.0	20.0	132.3	204.1	336.4
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	94.7	22.3	94.3				94.5	21.2	77.6	58.6	70.0
8. REACTOR WATER FLOW RATE AT 2330- GPM ± 1000	90.0	20.1	90.3				210.0	198.0	76.7	71.7	74.7
9. FACTOR LIMITING POWER LEVEL	B.O.		B.O.				B.O.		82.7	84.0	83.2
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.		46				N.				
11. ESTIMATED STARTUP TIME											

LINE 5 TOTALS IN KW/MS

INPUT PROD. FORECAST FOR MO.

TIME OPER. EFF. - MO-TO-DATE

TIME OPER. EFF. - 30 DAY AVG.

TIME OPER. EFF. FORECAST FOR MO.

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	Y.S.			COMPLETED	REMAINING		
	1	0	0	1	4	3	4	0	2	290.0

REMARKS:

C - The I&E natural metal (overbore) rupture was removed from tube 3067 with the charging machine.

KW - Tube 0271 was discharged and the rear hardware was inspected. No unusual conditions were found that may have caused the high Panellit trip.

8/17/65 (12-8)

C - Resumed operation at 0548 hours.

KW - Resumed operation at 0157 hours.

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REACTOR OPERATIONS DAILY REPORT

DATE 8/17/65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1720	1900	1740				0	4020	5360	4020	9380
2. MAXIMUM POWER LEVEL - MW	1720	1900	1735				4180	3850	5355	8030	13385
3. INPUT PRODUCTION - MWD	1720	1223	1734				3179	3028	4677	6207	10884
4. OUTAGE HOURS	0	5.8	0				5.7	2.0	5.8	7.7	13.5
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	-3283	+864	+964				+756	-7063	-1.5	-6.3	-7.8
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	21.3	20.7	21.0				20.2	19.6	LINE 5 TOTALS IN KWWD'S		
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	94.4	92.0	93.8				21.8	89.5	INPUT PROD. FORECAST FOR MO.		
8. REACTOR WATER FLOW RATE AT 2330- GPM $\pm$ 1000	89.8	102.0	90.3				69.0	209.0	132.3	204.1	336.4
9. FACTOR LIMITING POWER LEVEL	B.O.	N.E.	B.O.					N.E.	TIME OPER. EFF. - MO-TO-DATE		
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.	25	48						78.4	60.1	71.1
11. ESTIMATED STARTUP TIME									TIME OPER. EFF. - 30 DAY AVG.		
									77.5	71.1	75.0
									TIME OPER. EFF. FORECAST FOR MO.		
									82.7	84.0	83.2

12. COMBINED REACTORS MONTH-TO-DATE

RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	COMPLETED	REMAINING		
3	4	0	2	297.0

REMARKS:

C - Reactor resumed operation at 0548 hours concluding a rupture removal outage.

KE - Reactor was scrammed at 1816 hours by a high trip on KER single pass tube 3050. Unable to determine cause.

Investigation is in progress.

KW - Reactor resumed operation at 0157 hours concluding an outage caused by an unexplained Panellit trip.

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DATE 8/18/65

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	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1720	1955	1745				1500	4140	5420	5640	11060
2. MAXIMUM POWER LEVEL - MW	1720	1955	1740				0	4115	5415	4115	9530
3. INPUT PRODUCTION - MWD	1720	1926	1739				0	4040	5385	4040	9425
4. OUTAGE HOURS	0	0	0				24.0	0	0	24.0	24.0
5. INPUT PRODUCTION VARIANCE FROM FORECAST-N-T-D - MWD	-2956	+1245	+1374				-3378	-7302	LINE 5 TOTALS IN KWWD'S		
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	20.9	20.4	20.5				21.3	19.4	INPUT PROD. FORECAST FOR MO.		
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	94.2	93.9	94.0				C.U.	94.0	132.3	204.1	336.4
8. REACTOR WATER FLOW RATE AT 2330- GPM $\pm$ 1000	90.0	102.9	90.2				16.0	209.0	79.6	59.5	71.6
9. FACTOR LIMITING POWER LEVEL	B.O.	I.A.L.	B.O.					N.E.	78.7	69.5	75.0
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.	25	49					30	TIME OPER. EFF. - 30 DAY AVG.		
11. ESTIMATED STARTUP TIME									82.7	84.0	83.2
									TIME OPER. EFF. FORECAST FOR MO.		

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS		RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.				COMPLETED	REMAINING		
	1	0	0	1	5	3		4	0	2	290.0

REMARKS:

KE - Reactor continuing down for miscellaneous maintenance work. Ran pressure and flow checks on single pass tube 3050 which failed to reveal the cause of the high trip.

8/19/65 (12-8)

KE - Resumed operation at 0640 hours.

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ROUGH DRAFT
AFTER FILL-IN

This document is classified
by *Tony Dunder*

REACTOR OPERATIONS DAILY REPORT

DATE August 19, 1965

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1725	1990	1750				4200	4175	5465	8375	13840
2. MAXIMUM POWER LEVEL - MW	1720	1990	1750				4120	4175	5460	8295	13755
3. INPUT PRODUCTION - MWD	1720	1968	1746				2491	4140	5434	6631	12065
4. OUTAGE HOURS	0	0	0				6.7	0	0	6.7	6.7
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	-2630	+1968	+1791				-5021	-7441	+0.8	-12.4	-11.6
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	20.3	19.7	20.3				19.0	18.9			
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	93.5	94.1	94.4				92.5	94.6			
8. REACTOR WATER FLOW RATE AT 2330- GPM ± 1000	90.0	102.6	90.3				210.0	209.0	80.7	60.9	72.8
9. FACTOR LIMITING POWER LEVEL	BO	NE	BO				NE	BO			
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N	25	44					16	80.9	69.0	76.1
11. ESTIMATED STARTUP TIME	DATE										
	HOUR										

LINE 8 TOTALS IN KWWD'S

INPUT PROD. FORECAST FOR MO.

TIME OPER. EFF. - MO-TO-DATE

TIME OPER. EFF. - 30 DAY AVG.

TIME OPER. EFF. FORECAST FOR MO.

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
	1	0	0	1	5	3	4	0	2	296.0

RESTRICTED DATA

This document contains restricted data as defined by the Atomic Energy Act of 1954. Its transmittal or the disclosure of its contents in any manner to an unauthorized person is prohibited.

KE Reactor resumed operation at 0640 hours concluding an outage caused by an unexplained high trip on KER single pass tube 3050.

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ROUGH DRAFT
AFTER FILL-IN

ROUGH DRAFT
AFTER FILL-IN

REACTOR OPERATIONS DAILY REPORT

DATE 8-20-65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1725	1990	1735				4200	4175	5450	8375	13825
2. MAXIMUM POWER LEVEL - MW	1725	1990	1750				4200	4175	5465	8375	13840
3. INPUT PRODUCTION - MWD	1724	1990	1741				4189	4174	5455	8363	13818
4. OUTAGE HOURS	0	0	0				0	0	0	0	0
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD									LINE 5 TOTALS IN KWWD'S		
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	20.7	20.2	21.0				19.7	19.2	INPUT PROD. FORECAST FOR MO.		
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	94.3	94.9	94.2				94.6	94.9	TIME OPER. EFF. - MO-TO-DATE		
8. REACTOR WATER FLOW RATE AT 2330- GPM ÷ 1000	80.8	102.7	90.2				210.0	209.5	TIME OPER. EFF. - 30 DAY AVG.		
9. FACTOR LIMITING POWER LEVEL	BO	BO	BO				BO	BO	TIME OPER. EFF. FORECAST FOR MO.		
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N	N	50				N	10			
11. ESTIMATED STARTUP TIME											

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
										296.0

REMARKS:

ROUGH DRAFT
AFTER FILL-IN

DECLASSIFIED

ROUGH DRAFT
AFTER FILL-IN

REACTOR OPERATIONS DAILY REPORT

DATE 8-21-65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1725	0	1740				4200	4170	3465	8370	11835
2. MAXIMUM POWER LEVEL - MW	1725	1990	1735				4200	4175	5450	8375	13825
3. INPUT PRODUCTION - MWD	1725	1918	1735				4200	4173	5378	8373	13751
4. OUTAGE HOURS	0	0.8	0				0	0	0.8	0	0.8
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD									LINE 5 TOTALS IN KWWD'S		
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	20.5	20.0	21.0				18.5	19.1	INPUT PROD. FORECAST FOR MO.		
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	94.2	22.0	94.3				94.7	94.9	TIME OPER. EFF. - MO-TO-DATE		
8. REACTOR WATER FLOW RATE AT 2330- GPM $\div$ 1000	89.7	100.2	90.2				210.0	209.0	TIME OPER. EFF. - 30 DAY AVG.		
9. FACTOR LIMITING POWER LEVEL	B0		B0				B0	B0	TIME OPER. EFF. FORECAST FOR MO.		
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N	17	N				N	36			
11. ESTIMATED STARTUP TIME											

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
REMARKS:										292.0

C - Reactor shut down at 2313 hours for the removal of an overbore rupture from tube 2865. The rupture was removed with the charging machine.

ROUGH DRAFT
AFTER FILL-IN

INTERFIL-IN

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REACTOR OPERATIONS DAILY REPORT

DATE 8-22-65

Roy E. Dunn.

[illegible]

	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
12. COMBINED REACTORS MONTH-TO-DATE	2	0	C	1	5	3	4	0	2	290.0

REMARKS:

C - Miscellaneous maintenance work is in progress following rupture removal.

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GROUP 1

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and Declassification.**

AFTER FIL-1N

ROUGH DRAFT
AFTER FILL-IN

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REACTOR OPERATIONS DAILY REPORT

DATE 8-23-65

Ray E. Adams

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1740	1900	1745				4215	4180	5385	8395	13780
2. MAXIMUM POWER LEVEL - MW	1735	1710	1745				4215	4180	4190	8395	13585
3. INPUT PRODUCTION - MWD	1729	860	1744				4202	4178	4333	8380	12713
4. OUTAGE HOURS	0	8.3	0				0	0	8.3	0	8.3
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	-1301	+255	+3433				-4766	-7862	+2.3	-12.6	-10.3
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	20.3	19.7	20.4				18.9	18.6			
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	94.0	84.0	94.1				94.5	94.7			
8. REACTOR WATER FLOW RATE AT 2330- GPM ± 1000	90.2	101.6	90.2				210.0	209.0			
9. FACTOR LIMITING POWER LEVEL	BO	NE	BO				BO	BO			
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N	30	N				N	N			
11. ESTIMATED STARTUP TIME	DATE										
	HOUR										

LINE 5 TOTALS IN KW'S

INPUT PROD. FORECAST FOR MO.

132.3 204.1 336.4

TIME OPER. EFF. - MO-TO-DATE

82.0 67.7 76.3

TIME OPER. EFF. - 30 DAY AVG.

81.9 71.6 77.8

TIME OPER. EFF. FORECAST FOR MO.

82.7 84.0 83.2

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
	2	0	0	1	5	3	4	0	2	296.0

REMARKS:

C Reactor resumed operation at 0816 hours concluding a rupture removal.

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ROUGH DRAFT
AFTER FILL-IN

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by *E. P. Prud'homme*

REACTOR OPERATIONS DAILY REPORT

DATE 8-21-65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1740	1960	0				4215	4175	3700	8390	12090
2. MAXIMUM POWER LEVEL - MW	1740	1945	1745				4225	4190	5430	8415	13845
3. INPUT PRODUCTION - MWD	1739	1885	1115				4213	4183	4739	8396	13135
4. OUTAGE HOURS	0	0	8.7				0	0	8.7	0	8.7
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	-955	+595	+3219				-4687	-7958	+2.8	-12.7	-9.9
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	20.6	20.0	20.8				19.5	19.0			
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	94.6	93.3	26.5				94.7	94.9			
8. REACTOR WATER FLOW RATE AT 2330- GPM $\pm$ 1000	90.2	102.1	8.3				210.0	209.0	82.3	69.0	77.0
9. FACTOR LIMITING POWER LEVEL	BO	NE					BO	BO	81.5	71.6	77.6
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N	N					N	25			
11. ESTIMATED STARTUP TIME			8-26-65 0300						82.7	84.0	83.2

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
	2	0	0	1	6	3	4	0	2	294.0

REMARKS:

D Reactor scrammed at 1520 hours by a Panellit trip when a spline cap seal failed on tube 1286. Charge-discharge is in progress.

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ROUGH DRAFT

by J. P. Bradburn.

AFTER FILL-IN

DATE 8-25-65

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12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
2	0	2	1	6	3	4	0	2	290.0	

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8-26-65 (12-8)

D Reactor resumed operation concluding an outage caused by a failed spline cap seal.

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AFTER FILM-IN

This document is classified

by *St. Pauli*

REACTOR OPERATIONS DAILY REPORT

DATE 8/26/65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1740	1995	0				4225	4175	3735	8400	12135
2. MAXIMUM POWER LEVEL - MW	1740	1995	1200				4225	4185	4935	8410	13345
3. INPUT PRODUCTION - MWD	1740	1992	578				4222	4179	4310	8401	12711
4. OUTAGE HOURS	0	0	8.2				0	0	8.7	0	8.7
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	-262	+1463	+1139				-4515	-8162	+2.3	-12.6	-10.3
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	20.3	19.8	20.7				19.1	18.5	LINE 5 TOTALS IN KWWD'S		
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	94.6	94.9	63.8				94.7	94.7	INPUT PROD. FORECAST FOR MO.		
8. REACTOR WATER FLOW RATE AT 2330- GPM ± 1000	89.5	101.1	89.8				210.0	209.0	132.3	204.1	336.4
9. FACTOR LIMITING POWER LEVEL	BO	BO					BO	BO	TIME OPER. EFF. - MO-TO-DATE		
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N	10					N	35	81.9	71.4	77.7
11. ESTIMATED STARTUP TIME			8-28-65 0700						TIME OPER. EFF. - 30 DAY AVG.		
									80.1	71.6	76.7
									TIME OPER. EFF. FORECAST FOR MO.		
									82.7	84.0	83.2

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS		RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.				COMPLETED	REMAINING		
	2	0	2	1	8		5	4	0	2	296.0

REMARKS:

D - Reactor resumed operation at 0644 hours concluding an outage caused by a failed spline cap seal.

Reactor scrambled from 1155 hours to 1247 hours and from 2200 hours to 2237 hours by unexplained Panellit trips on tubes 3389 and 1795, respectively.

8/27/65 (12-8)

D - Reactor shut down at 0552 hours due to rupture indications.

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ROUGH DRAFT
AFTER FILL-IN

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E. J. Prudich

ROUGH DRAFT

AFTER FILL-IN

REACTOR OPERATIONS DAILY REPORT

DATE 8/27/65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1740	1995	1100				4245	4180	4835	8425	13260
2. MAXIMUM POWER LEVEL - MW	1740	1995	1500				4235	4180	5235	8415	13650
3. INPUT PRODUCTION - MWD	1740	1995	332				4226	4175	4067	8401	12468
4. OUTAGE HOURS	0	0	18.1				0	0	18.1	0	18.1
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD										LINE 5 TOTALS IN KWWD'S	
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	20.0	19.6	21.7				18.7	18.1			
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	94.5	94.7	25.0				94.6	94.3			
8. REACTOR WATER FLOW RATE AT 2330- GPM ÷ 1000	89.0	101.1	29.5				210.0	209.0			
9. FACTOR LIMITING POWER LEVEL	B.O.	B.O.					B.O.	B.O.			
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.	12					N.	40			
11. ESTIMATED STARTUP TIME	DATE										
	HOOR										

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
										293.0

REMARKS:

D - Reactor shut down at 0552 hours for the removal of an abraded bumpy-erupture from tube 3389.

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ROUGH DRAFT

AFTER FILL-IN

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AFTER FILL-IN

REACTOR OPERATIONS DAILY REPORT

DATE 8/28/65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1745	2000	1750				4250	4200	5495	8450	13945
2. MAXIMUM POWER LEVEL - MW	1745	2000	1635				4245	4200	5380	8445	13825
3. INPUT PRODUCTION - MWD	1743	1998	1026				4238	4187	4767	8425	13192
4. OUTAGE HOURS	0	0	5.8				0	0	5.8	0	5.8
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD									LINE 5 TOTALS IN KWWD'S		
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	19.4	19.2	20.1				18.5	18.0			
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	94.1	94.5	88.5				94.5	94.6			
8. REACTOR WATER FLOW RATE AT 2330- GPM ± 1000	89.0	102.4	90.0				210.0	209.0			
9. FACTOR LIMITING POWER LEVEL	B.O.	B.O.	N.E.				B.O.	B.O.			
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.	N.	36				N.	25			
11. ESTIMATED STARTUP TIME											

INPUT PROD. FORECAST FOR MO.

TIME OPER. EFF. - MO-TO-DATE

TIME OPER. EFF. - 30 DAY AVG.

TIME OPER. EFF. FORECAST FOR MO.

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
										296.0

REMARKS:

D - Resumed operation at 0545 hours concluding a rupture outage.

ROUGH DRAFT
AFTER FILL-IN

ROUGH DRAFT
AFTER FILL-IN

REACTOR OPERATIONS DAILY REPORT

DATE 8/29/65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1750	2000	0				4260	4215	3750	8475	12225
2. MAXIMUM POWER LEVEL - MW	1750	2000	1750				4250	4215	5500	8465	13965
3. INPUT PRODUCTION - MWD	1748	2000	935				4250	4203	4683	8453	13136
4. OUTAGE HOURS	0	0	11.1				0	0	11.1	0	11.1
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	+789	+2821	-555				-4203	-8434	+3.1	-12.6	-9.5
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	19.4	19.0	21.9				18.3	17.8	LINE 5 TOTALS IN KWWD'S		
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	94.3	94.8	24.2				94.7	94.6	INPUT PROD. FORECAST FOR MO.		
8. REACTOR WATER FLOW RATE AT 2330- GPM ± 1000	89.0	101.1	31.0				210.0	209.0	132.3	204.1	336.4
9. FACTOR LIMITING POWER LEVEL	B.O.	B.O.					B.O.	B.O.	82.1	74.4	79.0
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.	N.	101				N.		81.6	72.5	78.0
11. ESTIMATED STARTUP TIME			8-30-65						TIME OPER. EFF. - 30 DAY AVG.		
			2100						82.7	84.0	83.2
									TIME OPER. EFF. FORECAST FOR MO.		

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
	3	1	2	1	8	5	4	0	2	290.0

REMARKS:

17. Reactor shut down at 1255 hours for the removal of a
hot die size capture from tube 1365. This material was
changed on Production Test IP-781 (comparison tests
between hot die size and ALI fuels).

ROUGH DRAFT
AFTER FILL-IN

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AFTER FILL-IN

REACTOR OPERATIONS DAILY REPORT

DATE 8/30/65

This document classified by

Darryl D. Paulick

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1750	2005	950				4250	4210	4705	8460	13165
2. MAXIMUM POWER LEVEL - MW	1750	2000	0				4260	4215	3750	8475	12225
3. INPUT PRODUCTION - MWD	1750	2000	0				4254	4214	3750	8468	12218
4. OUTAGE HOURS	0	0	24.0				0	0	24.0	0	24.0
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	+1145	+3275	-1884				-4083	-8499	+2.5	-12.6	-10.1
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	19.4	19.1	19.8				18.5	18.0	LINE 6 TOTALS IN KW/PS		
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	94.0	94.2	21.0				94.7	94.7	INPUT PROD. FORECAST FOR MO.		
8. REACTOR WATER FLOW RATE AT 2330- GPM ± 1000	89.5	102.6	86.0				210.0	290.0	132.3	204.1	336.4
9. FACTOR LIMITING POWER LEVEL	B.O.	B.O.					B.O.	B.O.	TIME OPER. EFF. - MO-TO-DATE		
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.	N.					N.	34.0	81.6	75.2	79.1
11. ESTIMATED STARTUP TIME									TIME OPER. EFF. - 30 DAY AVG.		
									81.6	75.2	79.1
									TIME OPER. EFF. FORECAST FOR MO.		
									82.7	84.0	83.2

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
	2	2	3	2	8	5	4	0	2	295.0

REMARKS:

D - Reactor continuing down following rupture removal. The stuck hot die size rupture was removed from tube 1365 and the tube was replaced. Also replaced tube 4061 due to a internal leak and tube 1565 due to a rear Van Stone flange leak.

8/31/65 (12-8)

D - Resumed operation at 0133 hours.

RESTRICTED DATA

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GROUP 1

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ROUGH DRAFT
AFTER FILL-IN

ROUGH DRAFT
AFTER FILL-IN

REACTOR OPERATIONS DAILY REPORT

DATE 8/31/65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0600 FOLLOWING DAY - MW	1755	2005	1750				4230	4200	5510	8430	13940
2. MAXIMUM POWER LEVEL - MW	1755	2005	1670				4250	4210	5430	8460	13890
3. INPUT PRODUCTION - MWD	1753	2005	1237				4244	4207	4995	8451	13446
4. OUTAGE HOURS	0	0	1.6				0	0	1.6	0	1.6
5. INPUT PRODUCTION VARIANCE FROM FORECAST-N-T-D - MWD	+1503	+3736	-1976				-3981	-8565	+3.3	-12.6	-9.3
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	19.6	19.4	20.4				18.6	18.2	LINE 5 TOTALS IN MW-D'S		
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	94.6	95.0	91.0				94.7	94.8	INPUT PROD. FORECAST FOR MO.		
8. REACTOR WATER FLOW RATE AT 2330- GPM ÷ 1000	89.2	102.4	90.5				210.0	209.0	132.3	204.1	336.4
9. FACTOR LIMITING POWER LEVEL	B.O.	B.O.	N.E.				B.O.	B.O.	TIME OPER. EFF. - 30 DAY AVG.		
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.	N.	31				N.	25	82.1	76.0	79.7
11. ESTIMATED STARTUP TIME									TIME OPER. EFF. - 30 DAY AVG.		
									82.6	77.7	80.7
									TIME OPER. EFF. FORECAST FOR MO.		
									82.7	84.0	83.2

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS		RECOVERIES		SCHEDULED OUTAGES		OTHER OUTAGES		DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING					
	2	2	3	2	8	5	4	0	2			294.0	

REMARKS:

D - Reactor resumed operation at 0133 hours concluding a run to rupture outage.

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E. J. Prudich

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ROUGH DRAFT
AFTER FILL-IN

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REACTOR OPERATIONS DAILY REPORT

This document classified by

DATE 9/1/65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1755	2005	1760				4230	4200	5520	8430	13950
2. MAXIMUM POWER LEVEL - MW	1755	2005	1750				4230	4200	5510	8430	13940
3. INPUT PRODUCTION - MWD	1755	2005	1740				4230	4200	5500	8430	13930
4. OUTAGE HOURS	0	0	0				0	0	0	0	0
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	+345	+862	+320				+967	+827	+1.5	+1.8	+3.3
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	19.6	19.4	20.5				18.8	18.1	LINE 5 TOTALS IN KWWD'S		
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	94.5	94.8	93.8				94.7	94.7	INPUT PROD. FORECAST FOR MO.		
8. REACTOR WATER FLOW RATE AT 2330- GPM ÷ 1000	89.5	102.4	90.2				209.5	209.0	119.2	199.1	318.3
9. FACTOR LIMITING POWER LEVEL	B.O.	B.O.	B.O.				B.O.	B.O.	TIME OPER. EFF. - MO-TO-DATE		
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.	N.	80				N.	N.	100.0	100.0	100.0
11. ESTIMATED STARTUP TIME									TIME OPER. EFF. - 30 DAY AVE.		
									83.7	77.7	81.3
									TIME OPER. EFF. FORECAST FOR MO.		
									77.0	84.0	79.8

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
	0	0	0	0	0	0	0	4	0	294.0

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REACTOR OPERATIONS DAILY REPORT

DATE 9/2/65

Stanley L. McLean

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1755	2005	1765				4260	4210	5525	8470	13995
2. MAXIMUM POWER LEVEL - MW	1755	2005	1760				4230	4200	5520	8430	13950
3. INPUT PRODUCTION - MWD	1755	2005	1749				4230	4200	5509	8430	13939
4. OUTAGE HOURS	0	0	0				0	0	0	0	0
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	+690	+1723	+649				+1934	+1654	+3.1	+3.6	+6.7
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	19.4	19.1	20.0				18.5	18.0	LINE 5 TOTALS IN KWWD'S		
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	94.5	94.7	93.9				94.6	94.5	INPUT PROD. FORECAST FOR MO.		
8. REACTOR WATER FLOW RATE AT 2330- GPM $\div$ 1000	89.2	102.4	90.2				209.5	209.0	119.2	199.1	318.3
9. FACTOR LIMITING POWER LEVEL	B.O.	B.O.	B.O.				B.O.	B.O.	TIME OPER. EFF. - MO-TO-DATE		
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.	N.	106				N.	40	100.0	100.0	100.0
11. ESTIMATED STARTUP TIME									TIME OPER. EFF. - 30 DAY AVG.		
									84.8	77.7	82.0
									TIME OPER. EFF. FORECAST FOR MO.		
									77.0	84.0	79.8

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
	0	0	0	0	0	0	0	4	0	296.0

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REACTOR OPERATIONS DAILY REPORT

S. L. Nelson

DATE 9-3-65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1755	2005	1760				4275	4220	5520	8495	15015
2. MAXIMUM POWER LEVEL - MW	1755	2005	1765				4270	4220	5525	8490	14015
3. INPUT PRODUCTION - MWD	1755	2005	1750				4258	4213	5510	8471	13981
4. OUTAGE HOURS	0	0	0				0	0	0	0	0
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD										LINE 5 TOTALS IN KWWD'S	
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	19.1	18.8	20.0				18.3	17.8		INPUT PROD. FORECAST FOR MO.	
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	94.2	94.1	93.8				94.6	94.7		TIME OPER. EFF. - MO-TO-DATE	
8. REACTOR WATER FLOW RATE AT 2330- GPM ± 1000	89.5	102.6	90.2				29.5	209.0		TIME OPER. EFF. - 30 DAY AVG.	
9. FACTOR LIMITING POWER LEVEL	B.O.	B.O.	B.O.				B.O.	B.O.		TIME OPER. EFF. FORECAST FOR MO.	
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.	N.	124				N.	27			
11. ESTIMATED STARTUP TIME											

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
										293

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ROUGH DRAFT
AFTER FILL-IN

ROUGH DRAFT
AFTER FILL-IN

REACTOR OPERATIONS DAILY REPORT

DATE 9-4-65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1755	2010	1765				4275	4230	5530	8505	14035
2. MAXIMUM POWER LEVEL - MW	1755	2010	1760				4275	4230	5525	8505	14030
3. INPUT PRODUCTION - MWD	1755	2005	1756				4272	4222	5516	8494	14010
4. OUTAGE HOURS	0	0	0				0	0	0	0	0
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD										LINE 5 TOTALS IN KWWD'S	
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	19.2	18.9	19.8				18.8	17.8		INPUT PROD. FORECAST FOR MO.	
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	94.4	94.6	93.9				94.9	94.8		TIME OPER. EFF. - MO-TO-DATE	
8. REACTOR WATER FLOW RATE AT 2330- GPM ÷ 1000	89.5	103.3	90.5				209.5	208.5		TIME OPER. EFF. - 30 DAY AVG.	
9. FACTOR LIMITING POWER LEVEL	B.O.	B.O.	B.O.				B.O.	B.O.		TIME OPER. EFF. FORECAST FOR MO.	
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.	21	121				N.	N.			
11. ESTIMATED STARTUP TIME											

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
										298

REMARKS:

ROUGH DRAFT
AFTER FILL-IN

ROUGH DRAFT
WATER FILL-IN

REACTOR OPERATIONS DAILY REPORT

DATE 9/5/65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1755	2010	1740				4255	4220	5505	8475	13980
2. MAXIMUM POWER LEVEL - MW	1755	2010	1765				4275	4230	5530	8505	14035
3. INPUT PRODUCTION - MWD	1755	2010	1746				4266	4227	5511	8493	14004
4. OUTAGE HOURS	0	0	0				0	0	0	0	0
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD									LINE 8 TOTALS IN KWWD'S		
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	19.2	19.1	20.8				18.8	18.0			
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	94.1	94.8	94.1				94.8	94.9			
8. REACTOR WATER FLOW RATE AT 2330- GPM ÷ 1000	90.0	102.2	90.5				209.5	208.5			
9. FACTOR LIMITING POWER LEVEL	B.O.	B.O.	B.O.				B.O.	B.O.			
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.	N.	94				N.	20			
11. ESTIMATED STARTUP TIME											
INPUT PROD. FORECAST FOR MO.											
TIME OPER. EFF. - MO-TO-DATE											
TIME OPER. EFF. - 30 DAY AVG.											
TIME OPER. EFF. FORECAST FOR MO.											

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
										290

REMARKS:

ROUGH DRAFT
AFTER FILL-IN

REACTOR OPERATIONS DAILY REPORT

DATE 9/6/65

REACTOR OPERATIONS DAILY REPORT

DATE 9/6/65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	0	2005	0				4250	4200	2005	8450	10455
2. MAXIMUM POWER LEVEL - MW	1755	2010	1745				4255	4220	5510	8475	13985
3. INPUT PRODUCTION - MWD	1755	2009	1723				4243	4212	5487	8455	13942
4. OUTAGE HOURS	0	0	0				0	0	0	0	0
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	+2070	+5179	+1944				+5920	+4314	+9.2	+11.0	+20.2
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	19.6	19.4	21.6				19.0	18.1	119.2	199.1	318.3
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	94.5	94.8	93.9				94.7	94.8	100.0	100.0	100.0
8. REACTOR WATER FLOW RATE AT 2330- GPM ± 1000	89.7	102.5	90.7				209.5	208.5	90.4	77.7	85.3
9. FACTOR LIMITING POWER LEVEL	B.O.	B.O.	B.O.				B.O.	B.O.	77.0	84.0	79.8
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.	N.	83				N.	20	TIME OPER. EFF. - MO-TO-DATE	TIME OPER. EFF. - MO-TO-DATE	TIME OPER. EFF. - MO-TO-DATE
11. ESTIMATED STARTUP TIME	9-10-65 2100		9-8-65 1600						TIME OPER. EFF. - MO-TO-DATE	TIME OPER. EFF. - MO-TO-DATE	TIME OPER. EFF. - MO-TO-DATE

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
	0	1	0	0	0	0	1	3	0	290.0

REMARKS:

9/7/65 (12-8)

B - Reactor shut down at 0300 hours for scheduled charge-discharge.

D - Reactor shut down at 0310 hours for the removal of a stuck hot die sized (PT 781) rupture from tube 1367. Removal is in progress.

REACTOR OPERATIONS DAILY REPORT

DATE 9/6/65

ROUGH DRAFT
AFTER FILL-IN

REACTOR OPERATIONS DAILY REPORT

DATE 9/7/65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	0	2010	0				4240	4200	2010	8440	10450
2. MAXIMUM POWER LEVEL - MW	1755	2010	1720				4250	4200	5485	8450	13935
3. INPUT PRODUCTION - MWD	210	2008	222				4244	4200	2440	8444	10884
4. OUTAGE HOURS	21.0	0	20.8				0	0	41.8	0	41.8
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	+870	+6044	+746				+6902	+5863	+7.7	+12.7	+20.4
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	21.0	19.2	22.0				19.0	18.2	119.2	199.1	318.3
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	29.0	94.8	26.9				94.7	94.8	91.7	100.0	95.0
8. REACTOR WATER FLOW RATE AT 2330- GPM ± 1000	6.5	102.5	28.0				209.5	209.0	89.6	77.7	84.8
9. FACTOR LIMITING POWER LEVEL		B.O.					B.O.	B.O.	77.0	84.0	79.8
10. DAILY ABNORMAL WATER COLLECTION - GALS.	9-10-65	33	250				N.	20			
11. ESTIMATED START-UP TIME	2100		9-8-65 1200								

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS		RECOVERIES		SCHEDULED OUTAGES		OTHER OUTAGES		DAILY PEAK ELECT. DEMAND - MEGAWATTS	
	NAT.	ENR.	TUBE	Y.S.					COMPLETED	REMAINING				
	0	1	1	1	0	0			1	3	0		250.0	

REMARKS:

B - Reactor shut down at 0300 hours for scheduled charge-discharge.

D - Reactor shut down at 0310 hours for the removal of a stuck hot die sized rupture from tube 1367. The rupture was removed with the charging machine after back seating the charge. The entire reactor was leak tested. Tube 1367 was replaced due to internal leak and tube 1164 was replaced due to a rear Van Stone flange leak.

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REACTOR OPERATIONS DAILY REPORT

DATE 9-8-65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0600 FOLLOWING DAY - MW	0	2010	1600				4245	4200	3610	8445	12055
2. MAXIMUM POWER LEVEL - MW	0	2010	1250				4240	4200	3260	8440	11700
3. INPUT PRODUCTION - MWD	0	20	476				4240	4200	2486	8440	10926
4. OUTAGE HOURS	24.0	0	13.2				0	0	37.2	0	37.2
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	-540	+6910	-198				+7877	+6690	+6.2	+14.6	+20.8
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	21.3	19.3	19.9				18.9	18.1	LINE 8 TOTALS IN KWWD'S		
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	27.0	94.7	72.0				94.6	94.7	INPUT PROD. FORECAST FOR MO.		
8. REACTOR WATER FLOW RATE AT 2330- GPM ± 1000	7.0	102.5	90.5				209.5	208.5	119.2	199.1	318.3
9. FACTOR LIMITING POWER LEVEL		B.O.	N.E.				B.O.	B.O.	TIME OPER. EFF. - MO-TO-DATE		
10. DAILY ABNORMAL WATER COLLECTION - GALS.		N.	59				N.	25	86.3	100.0	91.8
11. ESTIMATED STARTUP TIME	9-10-65 2100								88.2	81.0	85.3
									TIME OPER. EFF. FORECAST FOR MO.		
									77.0	84.0	79.8

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS		RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.				COMPLETED	REMAINING		
	0	1	1	1	0	0		1	3	0	276.0

REMARKS:

B - Reactor continuing down for scheduled charge-discharge.

C - Reactor resumed operation at 1314 hours concluding a rupture removal outage.

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John Paulich

ROUGH DRAFT

AFTER FILL-IN

DRAFT
AFTER FIVE

REACTOR OPERATIONS DAILY REPORT

DATE 9/9/65

	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
12. COMBINED REACTORS MONTH-TO-DATE	0	1	1	1	0	0	1	3	0	270.0

REMARKS:

B - Reactor continuing down for scheduled charge-discharge.

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ROUGH DRAFT

REF ID: A63534

ROUGH DRAFT
AFTER FILL-IN

Hanford Code C-65

REACTOR OPERATIONS DAILY REPORT

DATE 9/10/65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1050	2005	1735				4240	4185	4790	8425	13215
2. MAXIMUM POWER LEVEL - MW	0	2010	1745				4240	4200	3755	8440	12195
3. INPUT PRODUCTION - MWD	0	2009	1729				4234	4197	3738	8431	12169
4. OUTAGE HOURS	24.0	0	0				0	0	24.0	0	24.0
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD									LINE 5 TOTALS IN KWWD'S		
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	21.2	19.7	21.0				19.2	18.3			
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	24.1	94.9	94.0				94.8	94.8			
8. REACTOR WATER FLOW RATE AT 2330- GPM $\pm$ 1000	32.6	102.4	90.3				210.0	208.5			
9. FACTOR LIMITING POWER LEVEL		B.O.	B.O.				B.O.	B.O.			
10. DAILY ABNORMAL WATER COLLECTION - GALS.		30	78				N.	45			
11. ESTIMATED STARTUP TIME	DATE										
	HOOR										

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	RAT.	ENR.	TUBE	Y.S.			COMPLETED	REMAINING		
										292.0

REMARKS:

B - Reactor continuing down on a scheduled outage. Miscellaneous maintenance including the replacement of seven tubes is in progress.

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E. P. Prodelich

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REACTOR OPERATIONS DAILY REPORT

DATE 9/11/65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1650	0	1720				4220	4155	3370	8375	11745
2. MAXIMUM POWER LEVEL - MW	1600	2005	1735				4240	4185	5340	8425	13765
3. INPUT PRODUCTION - MWD	1051	1205	1725				4217	4178	3981	8395	12376
4. OUTAGE HOURS	4.3	9.6	0				0	0	13.9	0	13.9
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD									LINE 5 TOTALS IN KWWD'S		
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	20.5	19.5	22.4				19.6	18.6	INPUT PROD. FORECAST FOR MO.		
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	87.0	24.3	94.3				94.7	94.3	TIME OPER. EFF. - MO-TO-DATE		
8. REACTOR WATER FLOW RATE AT 2330- GPM ± 1000	89.8	6.8	90.6				209.5	208.5	TIME OPER. EFF. - 30 DAY AVG.		
9. FACTOR LIMITING POWER LEVEL	N.E.		B.O.				N.	20	TIME OPER. EFF. FORECAST FOR MO.		
10. DAILY ABNORMAL WATER COLLECTION - GALS.	17		75				N.	20			
11. ESTIMATED STARTUP TIME											

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
										293.0

REMARKS:

- E - Resumed operation at 0415 hours concluding a scheduled outage.
- C - Reactor shut down at 1426 hours for the removal of a hot-die-sized overbore rupture from tube 3269. The reactor will remain down for scheduled charge-discharge.

ROUGH DRAFT
AFTER FILL-IN

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ROUGH DRAFT
AFTER FILL-IN

REACTOR OPERATIONS DAILY REPORT

DATE 9/12/65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1740	0	1680				0	4155	3420	4155	7575
2. MAXIMUM POWER LEVEL - MW	1740	0	1720				4220	4170	3460	8390	11850
3. INPUT PRODUCTION - MWD	1683	0	1701				4214	4154	3384	8368	11752
4. OUTAGE HOURS	0	24.0	0				0	0	24.0	0	24.0
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	-3446	+7561	+871				+11729	+9927	+5.0	+21.7	+26.7
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	20.9	19.7	23.7				20.0	19.0	LINE 5 TOTALS IN KW/D'S		
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	94.9	25.6	94.7				94.8	94.7	INPUT PROD. FORECAST FOR MO.		
8. REACTOR WATER FLOW RATE AT 2330- GPM $\pm$ 1000	90.0	4.0	90.5				210.0	208.5	119.2	199.1	318.3
9. FACTOR LIMITING POWER LEVEL	N.E.		B.O.				B.O.	B.O.	TIME OPER. EFF. - MO-TO-DATE		
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.		50				N.	N.	80.9	100.0	88.5
11. ESTIMATED STARTUP TIME		9-14-65					9-19-65		TIME OPER. EFF. - 30 DAY AVG.		
		2400					0800		84.2	93.7	88.0
									TIME OPER. EFF. FORECAST FOR MO.		
									77.0	84.0	79.8

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
	1	1	1	1	0	0	3	1	0	270.0

REMARKS:

C - Reactor continuing down for scheduled charge-discharge following rupture removal.

9/13/65 (12-8)

KE - Reactor shut down at 0425 hours for the removal of a thoria failure from tube 2898.

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REACTOR OPERATIONS DAILY REPORT

DATE 9/13/65

[Signature]

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1740	0	1730				0	4160	3470	4160	7630
2. MAXIMUM POWER LEVEL - MW	1740	0	1730				4215	4160	3470	8375	11845
3. INPUT PRODUCTION - MWD	1740	0	1689				760	4153	3429	4913	8342
4. OUTAGE HOURS	0	24.0	0				19.6	0	24.0	19.6	43.6
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	-3116	+6814	+1140				+9226	+10707	+4.5	+19.9	+24.4
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	20.0	19.6	20.4				20.7	18.5			
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	94.5	23.0	93.6				C.U.	94.4			
8. REACTOR WATER FLOW RATE AT 2330- GPM + 1000	89.4	4.5	90.3				18.5	208.0			
9. FACTOR LIMITING POWER LEVEL	B.O.		B.O.				1	B.O.			
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.		52				9-19-65 0800	20			
11. ESTIMATED STARTUP TIME		9-14-65 2400									
<div> <div>INPUT PROD. FORECAST FOR MO.</div> <div>119.2 97.9 101.2</div> <div>TIME OPER. EFF. - MO-TO-DATE</div> </div> <div> <div>TIME OPER. EFF. - 30 DAY AVG.</div> <div>79.8 96.9 86.6</div> <div>83.1 93.8 87.4</div> <div>TIME OPER. EFF. FORECAST FOR MO.</div> <div>77.0 84.0 79.8</div> </div>											

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS		RECOVERIES		SCHEDULED OUTAGES		OTHER OUTAGES		DAILY PEAK ELECT. DEMAND - MEGAWATTS	
	NAT.	ENR.	TUBE	V.S.					COMPLETED	REMAINING				
	#1	1	1	1	0	0	0	0	3	1	0	0	218.0	

REMARKS: *One thoria failure not included.
C - Reactor continuing down for scheduled charge-discharge.

RE - Reactor shut down at 0425 hours due to a failed thoria element in tube 2898. No attempt has yet been made to discharge. Scheduled charge-discharge and downcomer work is in progress.

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REACTOR OPERATIONS DAILY REPORT

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DATE 9/14/65

[illegible]

	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
12. COMBINED REACTORS MONTH-TO-DATE	*7	1	1	1	0	0	3	1	0	238.0

REMARKS: *One thoria failure not included.

C - Charge-discharge of fuel was completed. Maintenance work is in progress.

F - Reactor continuing down for scheduled charge-discharge and downcomer repair.

9-15-65 (12-8)

C. Resumed operation at 0223 hrs. concluding scheduled work.

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REACTOR OPERATIONS DAILY REPORT

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DATE 9/15/65

L. P. Nelson

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1750	1945	1755				0	4245	5450	4245	9695
2. MAXIMUM POWER LEVEL - MW	1745	1890	1745				0	4220	5380	4220	9600
3. INPUT PRODUCTION - MWD	1745	1495	1735				0	4202	4975	4202	9177
4. OUTAGE HOURS	0	2.4	0				24.0	0	2.4	24.0	26.4
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	2450	+5626	+1763				+2703	+12326	+4.9	+15.1	+20.0
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	19.0	18.8	19.8				20.2	17.8	LINE 5 TOTALS IN KWWD'S		
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	93.5	89.2	93.3				C.U.	94.7	INPUT PROD. FORECAST FOR MO.		
8. REACTOR WATER FLOW RATE AT 2330- GPM $\div$ 1000	89.9	102.1	90.2				17.2	208.0	119.2	199.1	318.3
9. FACTOR LIMITING POWER LEVEL	B.O.	N.E.	E.O.					B.O.	TIME OPER. EFF. - MO-TO-DATE		
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.	27	45					N.	80.1	90.6	84.3
11. ESTIMATED STARTUP TIME									TIME OPER. EFF. - 30 DAY AVG.		
									83.5	92.6	87.2
									TIME OPER. EFF. FORECAST FOR MO.		
									77.0	84.0	79.8

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS		RECOVERIES		SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.					COMPLETED	REMAINING		
	*1	1	1	1	0	0	0	0	3	1	0	240.0

REMARKS: One thoria failure not included.

C - Resumed operation at 0223 hrs. concluding scheduled work.

KE - Reactor continuing down for scheduled work. Modification of the downcomer approach box is in progress.

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REACTOR OPERATIONS DAILY REPORT

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DATE 9/16/65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1765	0	1745				0	4245	3510	4245	7755
2. MAXIMUM POWER LEVEL - MW	1760	1960	1755				0	4245	5475	4245	9720
3. INPUT PRODUCTION - MWD	1753	1434	1749				0	4240	4936	4240	9176
4. OUTAGE HOURS	0	6.2	0				24.0	0	6.2	24.0	30.2
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	-2107	+5917	+2092				-564	+13193	+5.9	+12.7	+18.6
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	18.5	18.3	19.3				20.0	17.2	119.2	199.1	318.3
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	93.8	24.0	93.2				C.U.	94.7	TIME OPER. EFF. - MO-TD-DATE		
8. REACTOR WATER FLOW RATE AT 2330- GPM ÷ 1000	89.9	6.2	90.4				16.0	208.5	80.8	88.0	83.7
9. FACTOR LIMITING POWER LEVEL	B.O.		B.O.					B.O.	TIME OPER. EFF. - 30 DAY AVG.		
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.	43	25					N.	83.5	91.5	86.7
11. ESTIMATED STARTUP TIME		9-17-65 2400					9-20-65 0800		77.0	84.0	79.8

12. COMBINED REACTORS

**DAILY PEAK ELECT.
DEMAND - MEGAWATTS**

OTHER OUTAGES

SCHEDULED OUTAGES	
COMPLETED	REMAINING

RECOVERIES

SCRAMS

KS

WATER LEA

	SEI
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RUPTURE

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11-11-11

REMARKS:

REMARKS: * One thorix failure not included.

C - Reactor screamed at 1746 hours by an unexplained Panellit trip on tube 3681.

KE - Reactor continuing down for scheduled work.
Modification of the downcomer approach box is in progress.

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REACTOR OPERATIONS DAILY REPORT

DATE 9/17/65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1765	1600	1750				0	4245	5115	4245	9360
2. MAXIMUM POWER LEVEL - MW	1765	0	1750				0	4245	3515	4245	7760
3. INPUT PRODUCTION - MWD	1764	0	1743				0	4245	3507	4245	7752
4. OUTAGE HOURS	0	24.0	0				24.0	0	24.0	24.0	48.0
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD									LINE 5 TOTALS IN KWWD'S		
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	18.5	18.4	19.1				19.5	17.0			
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	94.0	20.0	93.1				C.U.	94.6			
8. REACTOR WATER FLOW RATE AT 2330- GPM $\pm$ 1000	89.7	96.3	90.5				16.0	208.5			
9. FACTOR LIMITING POWER LEVEL	B.O.		B.O.					B.O.			
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.		22								
11. ESTIMATED STARTUP TIME		9-18-65 0200					9-20-65 0800				
12. COMBINED REACTORS MONTH-TO-DATE											

	RUPTURES	WATER LEAKS	SCRAMS	RECOVERIES	SCHEDULED OUTAGES	OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	TUBE	Y.S.	COMPLETED	REMAINING		
							238.0

REMARKS:

Reactor continuing down for miscellaneous maintenance work following an unexplained Panellit trip.
Reactor continuing down for scheduled work. The modification of the downcomer approach box is continuing.

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REACTOR OPERATIONS DAILY REPORT

DATE 9/18/65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL	
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1765	1960	1740				0	4235	5465	4235	9700	
2. MAXIMUM POWER LEVEL - MW	1765	1885	1750				0	4245	5400	4245	9645	
3. INPUT PRODUCTION - MWD	1765	1503	1742				0	4242	5010	4242	9252	
4. OUTAGE HOURS	0	2.0	0				24.0	0	2.0	24.0	26.0	
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD									LINE 5 TOTALS IN KW'D'S			
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	18.6	18.6	20.3				20.0	17.4	INPUT PROD. FORECAST FOR MO.			
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	94.2	89.6	93.5				C.U.	94.8	TIME OPER. EFF. - MO-TO-DATE			
8. REACTOR WATER FLOW RATE AT 2330- GPM ÷ 1000	89.7	101.9	90.3				16.3	208.5	TIME OPER. EFF. - 30 DAY AVG.			
9. FACTOR LIMITING POWER LEVEL	B.O.	N.E.	B.O.					B.O.	TIME OPER. EFF. FORECAST FOR MO.			
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.	23	41				9-20-65	1000				
11. ESTIMATED STARTUP TIME												
12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES	OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS			
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		240.0		

REMARKS:

Reactor resumed operation at 0157 hours concluding an outage caused by an unexplained Panellit trip. Reactor continuing down for scheduled work. The charge-discharge of fuel was resumed.

ROUGH DRAFT
AFTER FILL-IN

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ROUGH DRAFT
AFTER FILL-IN

REACTOR OPERATIONS DAILY REPORT

DATE 9/19/65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1765	2005	1715				0	4210	5485	4210	9695
2. MAXIMUM POWER LEVEL - MW	1765	2005	1740				0	4235	5510	4235	9745
3. INFUT PRODUCTION - MWD	1765	1970	1729				0	4227	5464	4227	9691
4. OUTAGE HOURS	0	0	0				24.0	0	0	24.0	24.0
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	-1043	+5960	+3046				-10354	+15788	+8.0	+5.4	+13.4
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	19.2	19.4	22.1				20.1	18.0	LINE 5 TOTALS IN KWWD'S		
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	94.6	94.7	95.0				C.U.	94.9	INPUT PROD. FORECAST FOR MO.		
8. REACTOR WATER FLOW RATE AT 2330- GPM ± 1000	89.7	101.9	90.5				16.3	206.5	119.2	199.1	318.3
9. FACTOR LIMITING POWER LEVEL	B.O.	B.O.	B.O.					B.O.	TIME OPER. EFF. - MO-TO-DATE		
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.	14	29						81.9	82.1	82.0
11. ESTIMATED STARTUP TIME									TIME OPER. EFF. - 30 DAY AVG.		
									82.3	88.6	84.8
									TIME OPER. EFF. FORECAST FOR MO.		
									77.0	84.0	79.8

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
	*1	1	1	1	1	0	3	1	0	287.0

REMARKS: *One thoria failure not included.

KE - Charge-discharge is continuing.
 A thoria failure was removed from tube 2898 and the tube was replaced.

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AFTER FILL-IN

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AFTER FILL-IN

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REACTOR OPERATIONS DAILY REPORT

DATE 9/20/65

S. L. Nelson

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1765	2020	1745				4215	0	5530	4215	9745
2. MAXIMUM POWER LEVEL - MW	1765	2020	1740				4050	4210	5525	8260	13785
3. INPUT PRODUCTION - MWD	1765	2008	1719				1175	4166	5492	5341	10833
4. OUTAGE HOURS	0	0	0				12.3	0	0	12.3	12.3
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	-688	+6824	+3345				-12443	+16623	+9.5	+4.1	+13.6
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	19.0	18.8	19.8				18.4	17.8	LINE 8 TOTALS IN KWWD'S		
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	94.4	94.5	93.4				90.2	94.6	INPUT PROD. FORECAST FOR MO.		
8. REACTOR WATER FLOW RATE AT 2330- GPM ÷ 1000	89.5	102.3	90.2				210.5	208.5	82.8	81.7	82.4
9. FACTOR LIMITING POWER LEVEL	B.O.	B.O.	B.O.				N.E.	B.O.	82.3	87.8	84.5
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.	N.	41				N.	N.	TIME OPER. EFF. - 30 DAY AVE.		
11. ESTIMATED STARTUP TIME									77.0	84.0	79.8
									TIME OPER. EFF. FORECAST FOR MO.		

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS		RECOVERIES		SCHEDULED OUTAGES		OTHER OUTAGES		DAILY PEAK ELECT. DEMAND - MEGAWATTS	
	NAT.	ENR.	TUBE	V.S.					COMPLETED	REMAINING				
	*1	1	1	1	2	0	0	4	0	0	1	208.1		

REMARKS: *One thorica failure not included.

KE - Resumed operation at 1043 hours concluding scheduled work. The reactor was scrambled from 1226 hours to 1255 hours by excessive oscillation on Panellit gauge 5871. The reactor was shut down from 1505 hours to 1611 hours to repair a faulty RTD on tube 2169.

KW - Reactor shut down at 2400 hours for scheduled charge-discharge and modification to the downcomer approach box.

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REACTOR OPERATIONS DAILY REPORT

DATE

9/21/65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1765	0	1755				4300	0	3520	4300	7820
2. MAXIMUM POWER LEVEL - MW	1765	2020	1755				4300	0	5540	4300	9840
3. INPUT PRODUCTION - MWD	1765	2019	1745				4233	0	5529	4233	9762
4. OUTAGE HOURS	0	0	0				0	24.0	0	24.0	24.0
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	-333	+7700	+3670				-11473	+13250	+11.0	+1.7	+12.7
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	19.1	18.8	19.9				17.4	19.0	LINE 8 TOTALS IN KWWD'S		
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	94.5	94.8	93.5				94.6	26.0	INPUT PROD. FORECAST FOR MO.		
8. REACTOR WATER FLOW RATE AT 2330- GPM ± 1000	89.5	102.0	90.2				212.0	14.0	119.2	199.1	318.3
9. FACTOR LIMITING POWER LEVEL	B.O.	I.O.	B.O.				B.O.		TIME OPER. EFF. - MO-TO-DATE		
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.	N.	120				N.		83.6	80.2	82.2
11. ESTIMATED STARTUP TIME		9-23-65							83.5	86.1	84.5
		1300							TIME OPER. EFF. - 30 DAY AVG.		
									77.0	84.0	79.8
									TIME OPER. EFF. FORECAST FOR MO.		

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
	*1	1	1	1	2	0	4	0	1	245.0

REMARKS: * One thoria failure not included.

KW - Reactor continuing down for scheduled charge-discharge and downcomer modification work.

9-22-65 (12-8)

C - Reactor shut down at 0734 hours due to rupture indications.

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REACTOR OPERATIONS DAILY REPORT

DATE

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1765	0	0				4300	0	1765	4300	6065
2. MAXIMUM POWER LEVEL - MW	1765	2015	1755				4300	0	5535	4300	9835
3. INPUT PRODUCTION - MWD	1765	628	1182				4298	0	3575	4298	7873
4. OUTAGE HOURS	0	16.4	7.7				0	24.0	24.1	24.0	48.1
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	+22	+7185	+3432				-10438	+9835	+10.6	-0.6	+10.0
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	19.2	18.7	21.8				18.2	19.3	119.2	199.1	318.3
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	94.6	20.6	30.0				94.5	C.U.	82.9	78.8	81.2
8. REACTOR WATER FLOW RATE AT 2330- GPM ± 1000	89.5	32.0	6.2				211.0	14.0	82.7	84.5	83.4
9. FACTOR LIMITING POWER LEVEL	B.O.						B.O.		77.0	84.0	79.8
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.	21	225				N.		TIME OPER. EFF. - 30 DAY AVG.		
11. ESTIMATED STARTUP TIME		9-23-65 1530	9-24-65 0400						TIME OPER. EFF. - 30 DAY AVG.		

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS		RECOVERIES		SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING				
	#2	1	1	1	2	0	4	0			2	240.0

REMARKS: *One thoria failure not included.

C - Reactor shut down at 0734 hours for the removal of a hot-die-sized overbore rupture from tube 1464. The rupture was removed with the charging machine.

D - Reactor shut down at 1620 hours due to a water leak.

KW - Reactor continuing down for a scheduled work. Modification of the downcomer is in progress.

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ROUGH DRAFT
AFTER FILL-IN

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ROUGH DRAFT
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REACTOR OPERATIONS DAILY REPORT

DATE 9/23/65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1765	1710	1200				4300	0	4675	4300	8975
2. MAXIMUM POWER LEVEL - MW	1765	1225	0				4300	0	2990	4300	7290
3. INPUT PRODUCTION - MW	1765	24	0				4300	0	1789	4300	6089
4. OUTAGE HOURS	0	21.7	24.0				0	24.0	45.7	24.0	69.7
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M.T.D. - MW	+377	+6056	+2012				-9401	+6462	+8.4	-2.9	+5.5
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	19.0	18.9	20.0				18.2	19.0	119.2	199.1	318.3
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	94.6	44.8	21.0				94.6	C.U.	80.8	77.5	79.5
8. REACTOR WATER FLOW RATE AT 2330- GPM ± 1000	89.6	99.9	86.0				211.0	14.0	81.0	82.8	81.7
9. FACTOR LIMITING POWER LEVEL	B.O.	N.E.					B.O.		77.0	84.0	72.8
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.						N.				
11. ESTIMATED STARTUP TIME								9-30-65			
								1600			

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS		RECOVERIES		SCHEDULED OUTAGES		OTHER OUTAGES		DAILY PEAK ELECT. DEMAND - MEGAWATTS	
	NAT	ENR.	TUBE	V.S.					COMPLETED	REMAINING				
	*2	1	3	2	2	0	4	0	0	0	2	235.0		

REMARKS: *One thorium not included.

C - Resumed operation at 2139 hours concluding an outage for the removal of a hot die sized overbore rupture.

D - Reactor continuing down for leak testing. Two internal process tube leaks and one Van Stone leak were found and corrected.

RW - Modification of the downcomer approach box is continuing.

2/24/65 -(12-8)

D - Resumed operation at 0334 hours.

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5	100-H	1704	R. S. Bell
6	100-H	1704	A. P. Vinther
7	100-H	1704	H. G. Spencer
8	100-H	1704	S. M. Graves
9	100-D	1704	R. W. Reid
10	100-D	1760	Dewey Clark
11	100-D	1760	P. A. Carlson
12	100-D	1704	C. N. Gross
13	100-B	105-C	R. V. Myers
14	100-K	1704	C. G. Lewis
15	100-D	1704	L. J. Newell
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ROUGH DRAFT
AFTER FILL-IN

Harvard Code C-65

REACTOR OPERATIONS DAILY REPORT

This document classified by

5/24/65

[illegible][illegible]

REMARKS:

D - Resumed operation at 0334 hours concluding a leak testing outage.

KW - Continuing down for scheduled work. Charge-discharge is in progress.

RESTRICTED DATA

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ROUGH DRAFT
AFTER FILL-IN

REACTOR OPERATIONS DAILY REPORT

DATE 5/15/65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1765	1990	1745				4300	0	5500	4300	9800
2. MAXIMUM POWER LEVEL - MW	1765	1985	1735				4300	0	5485	4300	9785
3. INPUT PRODUCTION - MWD	1765	1946	1730				4287	0	5441	4287	9728
4. OUTAGE HOURS	0	0	0				0	24.0	0	24.0	24.0
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD									LINE 5 TOTALS IN KWWD'S		
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	19.3	19.3	21.4				18.8	19.1			
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	94.8	94.1	94.0				94.7	C.U.			
8. REACTOR WATER FLOW RATE AT 2330- GPM ÷ 1000	89.5	102.0	90.0				211.0	14.0			
9. FACTOR LIMITING POWER LEVEL	B.O.	N.E.	B.O.				B.O.				
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.	N.	73				N.				
11. ESTIMATED STARTUP TIME											
INPUT PROD. FORECAST FOR MO.											
TIME OPER. EFF. - MO-TO-DATE											
TIME OPER. EFF. - 30 DAY AVG.											
TIME OPER. EFF. FORECAST FOR MO.											

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS	
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING			
											240.0

REMARKS:

KW - Reactor continuing down for scheduled charge-discharge.

ROUGH DRAFT
AFTER FILL-IN

ROUGH DRAFT
AFTER FILL-IN

REACTOR OPERATIONS DAILY REPORT

DATE 9/26/65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1765	0	1770				4290	0	3535	4290	7325
2. MAXIMUM POWER LEVEL - MW	1765	2000	1745				4300	0	5510	4300	5810
3. INPUT PRODUCTION - MWD	1765	1929	1738				4284	0	5432	4284	5715
4. OUTAGE HOURS	0	0.7	0				0	24.0	0.7	24.0	24.7
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	+1442	+8256	+2341				-6323	-3657	+12.0	-9.9	+2.1
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	19.2	19.2	20.5				18.6	19.5	INPUT PROD. FORECAST FOR MO.		
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	94.7	25.1	93.8				94.6	C.U.	119.2	199.1	318.3
8. REACTOR WATER FLOW RATE AT 2330- GPM ± 1000	89.5	94.5	90.1				211.0	14.0	82.8	74.4	79.4
9. FACTOR LIMITING POWER LEVEL	B.O.		B.O.				B.O.		83.1	77.8	81.0
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.		62				N.		TIME OPER. EFF. - MO-TO-DATE	TIME OPER. EFF. - MO-TO-DATE	TIME OPER. EFF. - MO-TO-DATE
11. ESTIMATED STARTUP TIME		9-28-65 0800						9-29-65 1600	77.0	84.0	79.8

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS		RECOVERIES		SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.					COMPLETED	REMAINING		
	*2	2	3	2	2	0	0	4	0	0	2	243.0

REMARKS *One Thoria not included.

C - Reactor shut down at 2318 hours for the removal of a stuck enriched rupture from tube 3988.

KW - Scheduled charge-discharge was completed. Downcomer modification work is continuing.

ROUGH DRAFT
AFTER FILL-IN

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6	100-H	1704	A. P. Vinther
7	100-H	1704	H. G. Spencer
8	100-H	1704	S. M. Graves
9	100-D	1704	R. W. Reid
10	100-D	1760	Dewey Clark
11	100-D	1760	P. A. Carlson
12	100-D	1704	C. N. Gross
13	100-B	105-C	R. V. Myers
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ROUGH DRAFT

AFTER FILL-IN

REACTOR OPERATIONS DAILY REPORT

DATE 9/27/65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1765	1	1800				4310	0	3566	4310	7876
2. MAXIMUM POWER LEVEL - MW	1765	0	1780				4300	0	3545	4300	7845
3. INPUT PRODUCTION - MWD	1765	0	1771				4290	0	3536	4290	7826
4. OUTAGE HOURS	0	24.0	0				0	24.0	24.0	24.0	48.0
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	+1797	+7113	+2692				-5297	-7030	+11.6	-12.4	-0.8
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	18.4	19.1	18.6				17.7	18.9	LINE 5 TOTALS IN KWWD'S		
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	94.0	23.0	93.2				94.2	C.U.	119.2	199.1	318.3
8. REACTOR WATER FLOW RATE AT 2330- GPM; 1000	89.5	1.9	90.1				211.0	13.5	82.2	73.5	78.7
9. FACTOR LIMITING POWER LEVEL	B.O.		B.O.				B.O.		TIME OPER. EFF. - 30 DAY AVG.		
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.		49				N.		82.3	76.1	79.8
11. ESTIMATED STARTUP TIME								9-28-65	TIME OPER. EFF. FORECAST FOR MO.		
								1600	77.0	84.0	79.8
12. COMBINED REACTORS MONTH-TO-DATE	#2		3	2	2	0	4	0	2	2	285.0
		ENR.					SCHEDULED OUTAGES COMPLETED	OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS		

*One. thoria not included.

C - The I&E enriched rupture was removed

from tube 3988 after backseating the charge and cutting the ribs. The process tube was replaced.

KW - Downcomer modification was completed. Flow tests are in progress.

9-28-65 (12-8)

C - Resumed operation at 0734 hours.

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ROUGH DRAFT
AFTERMILL-IN

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4	100-H	1704	O. C. Schroeder
5	100-H	1704	R. S. Bell
6	100-H	1704	A. P. Vinther
7	100-H	1704	H. G. Spencer
8	100-H	1704	S. M. Graves
9	100-D	1704	R. W. Reid
10	100-D	1760	Dewey Clark
11	100-D	1760	P. A. Carlson
12	100-D	1704	C. N. Gross
13	100-B	105-C	R. V. Myers
14	100-K	1704	C. G. Lewis
15	100-D	1704	L. J. Newell
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AFTER FILL-IN

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Tommy Fendrich

DATE 9/29/65

STARTUP TIME	RUDR	RUPTURES				WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
		NAT.	ENR.	TUBE	V. S.	COMPLETED	REMAINING						
12. COMBINED REACTORS MONTH-TO-DATE			2	3	2		3	1	4	0	2	293.0	

KW - Resumed operation at 1904 hours concluding a scheduled outage. The reactor was scrambled from 2105 hours to 2141 hours due to an unexplained Panellit trip.

RESTAURANT

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AFTER FILL-IN

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5	100-H	1704	R. S. Bell
6	100-H	1704	A. P. Vinther
7	100-H	1704	H. G. Spencer
8	100-H	1704	S. M. Graves
9	100-D	1704	R. W. Reid
10	100-D	1760	Dewey Clark
11	100-D	1760	P. A. Carlson
12	100-D	1704	C. N. Gross
13	100-B	105-C	R. V. Myers
14	100-K	1704	C. G. Lewis
15	100-D	1704	L. J. Newell
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ROUGH DRAFT
AFTER FILL-IN

Hanford Code C-65

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REACTOR OPERATIONS DAILY REPORT

DATE 9/29/65

Doug P. Paul

	B	C	D	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	0	1980	1785			4310	4150	3765	8460	12225
2. MAXIMUM POWER LEVEL - MW	1770	1965	1800			4310	4100	5535	8410	13945
3. INPUT PRODUCTION - MWD	1769	1892	1785			4310	3968	5446	8278	13724
4. OUTAGE HOURS	0	0	0			0	0	0	0	0
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	+2511	+7583	+3435			-3204	-9590	+13.5	-12.8	+0.7
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	18.3	18.8	18.9			17.7	17.0			
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	94.1	91.8	94.0			94.4	91.3			
8. REACTOR WATER FLOW RATE AT 2330- GPM ÷ 1000	89.0	102.5	90.0			211.5	210.5			
9. FACTOR LIMITING POWER LEVEL	B.O.	N.E.	B.O.			B.O.	N.E.			
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.	59	54			N.	27			
11. ESTIMATED STARTUP TIME	10-1-65 1700									
INPUT PROD. FORECAST FOR MO.										
TIME OPER. EFF. - MO-TO-DATE										
TIME OPER. EFF. - 30 DAY AVG.										
TIME OPER. EFF. FORECAST FOR MO.										
77.0 84.0 79.8										

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
	*3	2	3	2	3	1	4	0	2	298.0

REMARKS: *One thoria failure not included.

9-30-65 (12-8)

B - Reactor shut down at 0449 hours for the removal of an I&E natural metal rupture from tube 4077.

10/1/65 at 10:15

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7	100-H	1704	H. G. Spencer
8	100-H	1704	S. M. Graves
9	100-D	1704	R. W. Reid
10	100-D	1760	Dewey Clark
11	100-D	1760	P. A. Carlson
12	100-D	1704	C. N. Gross
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REACTOR OPERATIONS DAILY REPORT

DATE 9/30/65

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James Lindbergh

1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	0	2010	1785							4310	4275	3795	8535	12330
2. MAXIMUM POWER LEVEL - MW	1775	2000	1735							4310	4235	5560	8545	14105
3. INPUT PRODUCTION - MWD	354	1986	1777							4310	4158	4117	8468	12505
4. OUTAGE HOURS	19.2	0	0						0	0	0	19.2	0	19.2
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	+1455	+8426	+3792						-2159	-3805	+13.7	-11.0	+2.7	
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	20.3	19.1	19.0						17.7	17.1	119.2	199.1	318.3	
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	27.9	93.4	93.8						94.5	93.8	TIME OPER. EFF. - MO-TO-DATE			
8. REACTOR WATER FLOW RATE AT 2330- GPM $\pm$ 1000	8.0	102.3	90.0						211.5	210.5	82.8	74.8	79.6	
9. FACTOR LIMITING POWER LEVEL		N.E.	B.O.						B.O.	N.E.	TIME OPER. EFF. - 30 DAY AVG.			
10. DAILY ABNORMAL WATER COLLECTION - GALS.			51						N.		82.8	74.8	79.6	
11. ESTIMATED STARTUP TIME	DATE 10-3-65 2000										TIME OPER. EFF. FORECAST FOR MO.			
											77.0	84.0	79.8	

REMARKS:

REMARKS: B - Reactor shut down at 0449 hours for the removal of an I&E natural metal rupture from tube 4077. Scheduled charge-discharge planned for 10-6-65 will be completed.

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HIGH DRAFT
AFTER FILL-IN

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4	100-H	1704	O. C. Schroeder
5	100-H	1704	R. S. Bell
6	100-H	1704	A. P. Vinther
7	100-H	1704	H. G. Spencer
8	100-H	1704	S. M. Graves
9	100-D	1704	R. W. Reid
10	100-D	1760	Dewey Clark
11	100-D	1760	P. A. Carlson
12	100-D	1704	C. N. Gross
13	100-B	105-C	R. V. Myers
14	100-K	1704	C. G. Lewis
15	100-D	1704	L. J. Newell
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17	200-E	202-A	G. L. Gurwell

ROUGH DRAFT
AFTER FILL-IN

Hanford Code C-65

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REACTOR OPERATIONS DAILY REPORT

DATE 10/1/65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	0	2025	1755				4310	4290	3780	8600	12380
2. MAXIMUM POWER LEVEL - MW	0	2025	1785				4310	4290	3810	8600	12410
3. INPUT PRODUCTION - MWD	0	2017	1769				4310	4277	3786	8597	12373
4. OUTAGE HOURS	24.0	0	0				0	0	24.0	0	24.0
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD											LINE 5 TOTALS IN KWWD'S
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	20.4	19.2	19.4				17.9	17.3			INPUT PROD. FORECAST FOR MO.
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	26.0	94.0	94.0				94.6	94.9			TIME OPER. EFF. - MO-TO-DATE
8. REACTOR WATER FLOW RATE AT 2330- GPM ± 1000	8.3	102.6	90.0				211.0	210.5			TIME OPER. EFF. - 30 DAY AVG.
9. FACTOR LIMITING POWER LEVEL		B.O.	B.O.				B.O.	B.O.			TIME OPER. EFF. FORECAST FOR MO.
10. DAILY ABNORMAL WATER COLLECTION - GALS.		N.	26				N.	40			
11. ESTIMATED STARTUP TIME											

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
										273.0

REMARKS:

B - Reactor continuing down on an outage initiated by a failed fuel element. Scheduled charge-discharge is in progress; also, replaced six process tubes.

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ROUGH DRAFT
AFTER FILL-IN

ROUGH DRAFT
AFTER FILL-IN

REACTOR OPERATIONS DAILY REPORT

DATE 10/2/65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	0	2030	1745				4285	4260	3775	8545	12320
2. MAXIMUM POWER LEVEL - MW	0	2030	1755				4310	4290	3785	8600	12385
3. INPUT PRODUCTION - MWD	0	2028	1750				4301	4279	3778	8580	12358
4. OUTAGE HOURS	24.0	0	0				0	0	24.0	0	24.0
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD									LINE 5 TOTALS IN KWWD'S		
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	20.7	19.7	20.1				18.2	17.6	INPUT PROD. FORECAST FOR MO.		
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	24.5	94.9	93.9				94.5	94.7	TIME OPER. EFF. - MO-TO-DATE		
8. REACTOR WATER FLOW RATE AT 2330- GPM ± 1000	7.9	102.8	90.0				211.0	210.5	TIME OPER. EFF. - 30 DAY AVG.		
9. FACTOR LIMITING POWER LEVEL		B.O.	B.O.				B.O.	B.O.	TIME OPER. EFF. FORECAST FOR MO.		
10. DAILY ABNORMAL WATER COLLECTION - GALS.		N.	37				N.	35			
11. ESTIMATED STARTUP TIME											

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
										273.0

REMARKS:

B - Completed scheduled charge-discharge. The removal of an I&E natural metal rupture from tube 4077 is in progress.

ROUGH DRAFT
AFTER FILL-IN

ROUGH DRAFT
AFTER FILL-IN

REACTOR OPERATIONS DAILY REPORT

DATE 10/3/65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1600	2020	1735				4280	4250	5355	8530	13885
2. MAXIMUM POWER LEVEL - MW	1300	2030	1745				4290	4260	5075	8550	13625
3. INPUT PRODUCTION - MWD	230	2028	1742				4285	4257	4000	8542	12542
4. OUTAGE HOURS	17.9	0	0				0	0	17.9	0	17.9
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	-3988	+2512	+1535				+2261	+1635	+0.1	+3.9	+4.0
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	19.1	20.0	21.0				18.6	17.9	118.9	225.4	344.3
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	70.0	94.8	94.7				94.9	94.8			
8. REACTOR WATER FLOW RATE AT 2330- GPM ÷ 1000	89.5	102.8	90.0				211.0	210.0	69.5	100.0	81.7
9. FACTOR LIMITING POWER LEVEL	N.E.	B.O.	B.O.				B.O.	B.O.	79.7	74.8	77.7
10. DAILY ABNORMAL WATER COLLECTION - GALS.		N.	30				N.	N.			
11. ESTIMATED STARTUP TIME									72.2	88.3	78.6

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
	0	0	0	0	0	0	0	3	0	288.0

REMARKS:

B - Resumed operation at 1753 hours concluding a rupture outage which was continued for scheduled charge-discharge. The stuck natural metal rupture was removed from tube 4077 using 1200 lbs. pressure and the tube was replaced.

ROUGH DRAFT
AFTER FILL-IN

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6	100-H	1704	A. P. Vinther
7	100-H	1704	H. G. Spencer
8	100-H	1704	S. M. Graves
9	100-D	1704	R. W. Reid
10	100-D	1760	Dewey Clark
11	100-D	1760	P. A. Carlson
12	100-D	1704	C. N. Gross
13	100-B	105-C	R. V. Myers
14	100-K	1704	C. G. Lewis
15	100-D	1704	L. J. Newell
16	WB	T-26	J. R. Young
17	200-E	202-A	G. L. Gurwell

REACTOR OPERATIONS DAILY REPORT

DATE 10/4/65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1710	2025	1770				4310	4270	5505	8580	14065
2. MAXIMUM POWER LEVEL - MW	1670	2020	1755				4300	4265	5445	8565	14010
3. INPUT PRODUCTION - MWD	1562	2020	1736				4283	4254	5318	8537	13855
4. OUTAGE HOURS	0	0	0				0	0	0	0	0
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	-3832	+3345	+2029				+2999	+2163	+1.5	+5.2	+6.7
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	18.3	18.9	19.3				17.8	17.1	LINE 5 TOTALS IN KWWD'S		
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	89.7	93.5	93.7				94.3	944.4	INPUT PROD. FORECAST FOR MO.		
8. REACTOR WATER FLOW RATE AT 2330- GPM ÷ 1000	89.7	102.9	90.0				211.0	210.5	77.1	100.0	86.3
9. FACTOR LIMITING POWER LEVEL	N.E.	B.O.	B.O.				B.O.	B.O.	79.7	74.8	77.7
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.	N.	36				N.	35	TIME OPER. EFF. - MO-TO-DATE		
11. ESTIMATED STARTUP TIME									72.2	88.3	78.6

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS		RECOVERIES		SCHEDULED OUTAGES		OTHER OUTAGES		DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING					
	0	0	0	0	0	0	0	0	3	0	0	0	290.0

REMARKS:

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3	300	3706	R. B. Hall
4	100-H	1704	O. C. Schrceder
5	100-H	1704	R. S. Bell
6	100-H	1704	A. P. Vinther
7	100-H	1704	H. G. Spencer
8	100-H	1704	S. M. Graves
9	100-D	1704	R. W. Reid
10	100-D	1760	Dewey Clark
11	100-D	1760	P. A. Carlson
12	100-D	1704	C. N. Gross
13	100-B	105-C	R. V. Myers
14	100-K	1704	C. G. Lewis
15	100-D	1704	L. J. Newell
16	WB	T-26	J. R. Young
17	200-E	202-A	G. L. Gurwell

ROUGH DRAFT
AFTER FILL-IN

REACTOR OPERATIONS DAILY REPORT

DATE 10/5/65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1710	2030	1765				4310	4290	5505	8600	14105
2. MAXIMUM POWER LEVEL - MW	1710	2030	1770				4310	4290	5510	8600	14110
3. INPUT PRODUCTION - MWD	1706	2027	1764				4307	4274	5497	8581	14078
4. OUTAGE HOURS	0	0	0				0	0	0	0	0
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	-3574	+4185	+729				+3761	+2712	+1.5	+6.5	+8.0
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	18.3	18.9	19.2				17.7	17.0	*130.2	225.4	*355.6
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	91.3	94.0	93.9				94.5	94.8	INPUT PROD. FORECAST FOR MO.		
8. REACTOR WATER FLOW RATE AT 2330- GPM $\pm$ 1000	89.7	102.8	90.0				211.0	210.5	TIME OPER. EFF. - MO-TO-DATE		
9. FACTOR LIMITING POWER LEVEL	N.E.	B.O.	B.O.				B.O.	B.O.	TIME OPER. EFF. - 30 DAY AVG.		
10. DAILY ABNORMAL WATER COLLECTION - GALS.		N.	36				N.	N.	TIME OPER. EFF. FORECAST FOR MO.		
11. ESTIMATED STARTUP TIME									*79.3	88.3	*82.9

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
	0	0	0	0	0	0	0	3	0	290.0

REMARKS:

* Revised forecast - scheduled outage at D Reactor delayed until November.

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5	100-H	1704	R. S. Bell
6	100-H	1704	A. P. Vinther
7	100-H	1704	H. G. Spencer
8	100-H	1704	S. M. Graves
9	100-D	1704	R. W. Reid
10	100-D	1760	Dewey Clark
11	100-D	1760	P. A. Carlson
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13	100-E	105-C	R. V. Myers
14	100-K	1704	C. G. Lewis
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REACTOR OPERATIONS DAILY REPORT

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DATE 10/6/65

1. POWER LEVEL AT 0900 FOLLOWING DAY - MW	171	2090	1760	4310	4290	5500	8600	14100
2. MINIMUM POWER LEVEL - MW	171	2090	1765	4310	4290	5505	8600	14100
3. INPUT PRODUCTION - MWD	171	2029	1759	4308	4290	5498	8598	14090
4. OUTAGE HOURS	0	0	0	0	0	0	0	0
5. INPUT PRODUCTION VARIANCE FROM FORECAST - MWD	-39	+5027	+881	+4524	+3276	+2.7	+7.8	+10.3
6. REACTOR INLET WATER TEMPERATURE AT 2330 - C	18.2	18.9	19.4	17.6	17.0	130.2	225.4	355.0
7. BULK OUYLET WATER TEMPERATURE AT 2330 - C	91.2	94.6	93.2	94.4	94.7	TIME OPER. EFF. - MO-TO-DATE	TIME OPER. EFF. - MO-TO-DATE	TIME OPER. EFF. - MO-TO-DATE
8. REACTOR WATER FLOW RATE AT 2330 - GPM - 1000	99.5	102.3	90.2	211.0	210.0	84.7	100.0	90.8
9. FACTOR LIMITING POWER LEVEL	N.E.	B.O.	B.O.	B.O.	B.O.	79.7	74.8	77.7
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.	N.	27	N.	20	TIME OPER. EFF. FORECAST FOR MO	TIME OPER. EFF. FORECAST FOR MO	TIME OPER. EFF. FORECAST FOR MO
11. ESTIMATED STARTUP TIME						79.3	88.3	82.9
12. COMBINED REACTORS MONTH-TO-DATE	0	0	0	0	0	OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS	295.0

REMARKS:

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4	100-H	1704	O. C. Schroeder
5	100-H	1704	R. S. Bell
6	100-H	1704	A. F. Vinther
7	100-H	1704	H. G. Spencer
8	100-H	1704	S. M. Graves
9	100-I	1704	H. W. Reid
10	100-D	1760	Dewey Clark
11	100-D	1760	P. A. Carlson
12	100-D	1704	C. N. Gross
13	100-B	1704-C	R. V. Myers
14	100-K	1704	C. G. Lewis
15	100-I	1704	L. J. Newell
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ROUGH DRAFT
AFTER FILL-IN

Hanford Code C-65

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REACTOR OPERATIONS DAILY REPORT

DATE 10/7/65

E. J. Prudick

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0500 FOLLOWING DAY - MW	1710	2035	1770				4310	4290	5515	8600	14115
2. MAXIMUM POWER LEVEL - MW	1710	2035	1765				4310	4290	5510	8600	14110
3. INPUT PRODUCTION - MWD	1710	2030	1758				4310	4290	5498	8600	14098
4. OUTAGE HOURS	0	0	0				0	0	0	0	0
5. INPUT PRODUCTION VARIANCE FROM FORECAST-B-T-D - MWD	-2927	+5870	+1033				+5288	+3840	+4.0	+9.1	+13.1
6. REACTOR INLET WATER TEMPERATURE AT 2330 - C	18.2	18.7	19.0				17.3	17.0	LINE 6 TOTALS IN KWWD'S		
7. BULK OUTLET WATER TEMPERATURE AT 2330 - C	91.4	94.2	93.8				94.5	94.7	INPUT PROG. FORECAST FOR MO.		
8. REACTOR WATER FLOW RATE AT 2330 - GPM + 1000	89.5	102.2	90.2				211.0	210.0	130.2	225.4	355.6
9. FACTOR LIMITING POWER LEVEL	N.E.	B.O.	B.O.				B.O.	B.O.	TIME OPER. EFF. - 30 DAY AVG.		
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.	N.	26				N.	N.	81.6	74.8	78.9
11. ESTIMATED 5-ARTHR'S TIME									TIME OPER. EFF. - DRECAST FOR MO.		
									79.3	88.3	82.9

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	EMR.	TUBE	V.S.			COMPLETED	REMAINING		
					0	0			0	0

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3	300	3706	R. B. Hall
4	100-H	1704	O. C. Schroeder
5	100-H	1704	R. S. Bell
6	100-H	1704	A. P. Vinther
7	100-H	1704	H. G. Spencer
8	100-H	1704	S. M. Graves
9	100-D	1704	R. W. Reid
10	100-D	1760	Dewey Clark
11	100-D	1760	P. A. Carlson
12	100-D	1704	C. N. Gross
13	100-B	105-C	R. V. Myers
14	100-K	1704	C. G. Lewis
15	100-D	1704	L. J. Newell
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17	200-E	202-A	G. L. Gurwell

ROUGH DRAFT
AFTER FILL-IN

Hamford Code 6-67

REACTOR OPERATIONS DAILY REPORT

DATE

10/10/65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1710	1705	1700				1700	1700	1705	1700	1700
2. MAXIMUM POWER LEVEL - MW	1710	1705	1700				1700	1700	1705	1700	1700
3. INPUT PRODUCTION - MWD	1710	1705	1700				1700	1700	1705	1700	1700
4. OUTAGE HOURS	0	0	0				0	0	0	0	0
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD										LINE 5 TOTALS IN KWWD'S	
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	18.5	18.0	19.2				17.9	17.2			INPUT PROD. FORECAST FOR MO.
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	94.5	94.7	93.6				94.7	94.8			TIME OPER. EFF. - MO-TO-DATE
8. REACTOR WATER FLOW RATE AT 2330- GPM $\pm$ 1000	89.3	102.2	90.2				211.0	210.5			TIME OPER. EFF. - 30 DAY AVG.
9. FACTOR LIMITING POWER LEVEL	N.E.	B.O.	B.O.				B.O.	B.O.			TIME OPER. EFF. FORECAST FOR MO.
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.	N.	24				N.	N.			
11. ESTIMATED STARTUP TIME											

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ERR.	TUBE	V.S.			COMPLETED	REMAINING		
										297.0

REMARKS:

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AFTER FILL-IN

ROUGH DRAFT
AFTER FILL-IN

REACTOR OPERATIONS DAILY REPORT

DATE 10/9/65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1720	0	1760				4320	4275	3480	8595	12075
2. MAXIMUM POWER LEVEL - MW	1715	2035	1770				4310	4285	5520	8595	14115
3. INPUT PRODUCTION - MWD	1713	919	1758				4303	4276	4390	8579	12969
4. OUTAGE HOURS	0	13.0	0				0	0	13.0	0	13.0
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD									LINE 5 TOTALS IN KWWD'S		
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	18.9	18.8	20.2				17.7	17.2	INPUT PROD. FORECAST FOR MO.		
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	92.4	25.8	93.2				94.7	94.3	TIME OPER. EFF. - MO-TO-DATE		
8. REACTOR WATER FLOW RATE AT 2330- GPM ± 1000	89.1	4.8	90.2				211.0	210.5	TIME OPER. EFF. - 30 DAY AVG.		
9. FACTOR LIMITING POWER LEVEL	N.E.		B.O.				B.O.	B.O.	TIME OPER. EFF. FORECAST FOR MO.		
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.		24				N.	35			
11. ESTIMATED STARTUP TIME											

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
										290.0

REMARKS:

C - Reactor shut down at 1100 hours for scheduled maintenance and charge-discharge.

ROUGH DRAFT
AFTER FILL-IN

DATE 10/10/65

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
	0	1	0	0	0	0	1	2	0	263.0

- C - Reactor down for scheduled work. Charge-discharge and work on VSR channels 57 and 59 are in progress.
- D - Reactor scrambled at 1330 hours by an enriched hot-die-sized rupture in tube 1570. The rupture was stuck and has not yet been removed.

AFTER THE LINE

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3	300	3706	R. B. Hall
4	100-H	1704	O. C. Schroeder
5	100-H	1704	R. S. Bell
6	100-H	1704	A. P. Vinther
7	100-H	1704	H. G. Spencer
8	100-H	1704	S. M. Graves
9	100-D	1704	R. W. Reid
10	100-D	1760	Dewey Clark
11	100-D	1760	P. A. Carlson
12	100-D	1704	C. N. Gross
13	100-B	105-C	R. V. Myers
14	100-K	1704	C. G. Lewis
15	100-D	1704	L. J. Newell
16	WB	T-26	J. R. Young
17	200-E	202-A	G. L. Gurwell

ROUGH DRAFT
AFTER FILL-IN

Hanford Code C-65

This document classified by

REACTOR OPERATIONS DAILY REPORT

DATE 10/11/65

Long Paul

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1750	0	0				4370	4325	1750	8695	10445
2. MAXIMUM POWER LEVEL - MW	1745	0	0				4359	4315	1745	8665	10410
3. INPUT PRODUCTION - MWD	1738	0	0				4339	4309	1733	8648	10386
4. OUTAGE HOURS	0	24.0	24.0				0	0	43.0	0	40.0
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	-1669	+4076	-879				+8373	+7093	+1.5	+14.4	+15.9
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	18.0	18.1	21.2				16.9	16.7	LINE 5 TOTALS IN KWWD'S		
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	92.5	20.9	27.8				94.6	94.7	INPUT PROD. FORECAST FOR MO.		
8. REACTOR WATER FLOW RATE AT 2330- GPM ± 1000	89.3	4.6	52.5				211.0	210.5	130.2	225.4	355.6
9. FACTOR LIMITING POWER LEVEL	N.E.						B.O.	B.O.	-1. OPER. EFF. - MO-TO-DATE		
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.						N.	N.	79.6	100.0	87.3
11. ESTIMATED STARTUP TIME		10-19-65 1900	10-13-65 0630						81.3	74.8	79.0
									TIME OPER. EFF. - 30 DAY AVG.		
									79.3	88.3	82.2
									TIME OPER. EFF. FORECAST FOR MO.		

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	WAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
	0	1	0	0	0	0	1	2	0	249.0

REMARKS:

C - Reactor continuing down for scheduled work.
Change-out of front face nozzles and VSR work are in progress.

D - The rupture in tube 1570 was removed after removing tube ribs and using forces up to 22000 lbs. Leak testing of the reactor is in progress.

RESTRICTED DATA

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AFTER FILL-IN

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5	100-H	1704	R. S. Bell
6	100-H	1704	A. P. Vinther
7	100-H	1704	H. G. Spencer
8	100-H	1704	S. M. Graves
9	100-D	1704	R. W. Reid
10	100-D	1760	Dewey Clark
11	100-D	1760	P. A. Carlson
12	100-D	1704	C. N. Gross
13	100-B	105-C	R. V. Myers
14	100-K	1704	C. G. Lewis
15	100-D	1704	L. J. Newell
16	WB	T-26	J. R. Young
17	200-E	202-A	G. L. Gurwell
18	100-K	1704	R. E. Dunn

ROUGH DRAFT
AFTER FILL-IN

REACTOR OPERATIONS DAILY REPORT

DATE 10/12/65

This document classified by

	B	C	D	DR	F	H	CE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	0	0	0				4380	4380	0	8710	8710
2. MAXIMUM POWER LEVEL - MW	1760	0	0				4370	4330	1760	8700	10460
3. INPUT PRODUCTION - MWD	1754	0	0				4367	4326	1754	8693	10447
4. OUTAGE HOURS	0	24.0	24.0				0	0	48.0	0	48.0
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD.	-1321	+2339	-2436				+9195	+6693		-0.9	+16.0
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	17.7	18.1	20.0				16.8	16.3			
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	92.8	20.9	25.0				94.8	94.7			
8. REACTOR WATER FLOW RATE AT 2330- GPM $\pm$ 1000	89.3	4.6	6.5				211.0	210.5			
9. FACTOR LIMITING POWER LEVEL	N.E.						B.O.	B.O.			
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.						N.	N.			
11. ESTIMATED STARTUP TIME	10-14-65 1900	10-19-65 1900	10-13-65 1600								
INPUT PROD. FORECAST FOR MO. 130.2 225.4 355.6 TIME OPER. EFF. - MO-TO-DATE 75.0 100.0 87.1 TIME OPER. EFF. - 30 DAY AVG. 80.7 74.8 77.3 TIME OPER. EFF. FORECAST FOR MO. 79.3 88.3 82.9											

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS		RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.				COMPLETED	REMAINING		
	0	1	0	2	1	0		1	2	0	240.0

REMARKS:

C - Reactor continuing down for scheduled work. The sleeving of VSR No. 59 was completed. The shield boring on channel 57 was discontinued for repairing of the boring machine. The change-out of front nozzles is 23% complete.

D - Reactor continuing down following rupture removal. Tubes 0859 and 0860 were replaced due to leaking rear van Stone flanges. Charge-discharge is in progress.

10/13/65 (12-8)

B - Reactor scrammed at 0439 hours due to an unexplained Panellit trip on tube 4474.

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AFTER FILL-IN

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4	100-H	1704	O. C. Schroeder
5	100-H	1704	R. S. Bell
6	100-H	1704	A. P. Vinther
7	100-H	1704	H. G. Spencer
8	100-H	1704	S. M. Graves
9	100-D	1704	R. W. Reid
10	100-D	1760	Dewey Clark
11	100-D	1760	P. A. Carlson
12	100-D	1704	C. N. Gross
13	100-B	105-C	R. V. Myers
14	100-K	1704	C. G. Lewis
15	100-D	1704	L. J. Newell
16	WB	T-26	J. R. Young
17	200-E	202-A	G. L. Gurwell
18	100-K	1704	R. E. Dunn

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4	100-H	1704	O. C. Schroeder
5	100-H	1704	R. S. Bell
6	100-H	1704	A. P. Vinther
7	100-H	1704	H. C. Spencer
8	100-H	1704	S. M. Graves
9	100-D	1704	R. W. Reid
10	100-D	1760	Dewey Clark
11	100-D	1760	P. A. Carlson
12	100-D	1704	C. N. Cross
13	100-B	105-C	R. V. Myers
14	100-K	1704	C. G. Lewis
15	100-D	1704	L. J. Newell
16	WB	T-26	J. R. Young
17	200-E	202-A	G. L. Gurwell
18	100-K	1704	R. E. Dunn

UGH DRAFT

AFTER FILL-IN

Hanford Code C-65

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REACTOR OPERATIONS DAILY REPORT

DATE 10-14-65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	950	0	1790				4400	4360	2740	8760	11500
2. MAXIMUM POWER LEVEL - MW	0	0	1730				4375	4335	1730	8710	10440
3. INPUT PRODUCTION - MWD	0	0	1479				4373	4335	1479	8708	10187
4. OUTAGE HOURS	23.8	24.0	0				0	0	47.8	0	47.8
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	-3791	+515	-4065				+10849	+7910	-7.3	+18.8	+11.5
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	17.6	17.8	17.7				16.2	16.0			
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	18.0	19.6	89.3				94.5	94.5			
8. REACTOR WATER FLOW RATE AT 2330- GPM $\pm$ 1000	84.9	5.0	90.0				210.5	210.0	68.3	100.0	81.0
9. FACTOR LIMITING POWER LEVEL			N.E.				B.O.	B.O.	77.8	77.8	77.8
10. DAILY ABNORMAL WATER COLLECTION - GALS.			51				N.	N.			
11. ESTIMATED STARTUP TIME		10-22-65									
		1900							79.3	88.3	82.9
LINE 5 TOTALS IN KWWD'S											
INPUT PROD. FORECAST FOR MO.											
TIME OPER. EFF. - MO-TO-DATE											
TIME OPER. EFF. - 30 DAY AVG.											
TIME OPER. EFF. FORECAST FOR MO.											

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS		RECOVERIES		SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.					COMPLETED	REMAINING		
	0	1	0	2	1	1	0	0	1	2	0	265.0

REMARKS:

B - Reactor resumed operation at 2345 hours concluding an outage caused by a Panellit trip.

C - Reactor continuing down for scheduled work. The change-out of front nozzles is 49% complete and the reaming of VSR channel No. 57 is complete.

RESTRICTED DATA

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UGH DRAFT

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3	300	3706	R. B. Hall
4	100-H	1704	O. C. Schroeder
5	100-H	1704	R. S. Bell
6	100-H	1704	A. P. Vinther
7	100-H	1704	H. G. Spencer
8	100-H	1704	S. M. Graves
9	100-D	1704	R. W. Reid
10	100-D	1760	Dewey Clark
11	100-D	1760	P. A. Carlson
12	100-D	1704	C. N. Gross
13	100-B	105-C	R. V. Myers
14	100-K	1704	C. G. Lewis
15	100-D	1704	L. J. Newell
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18	100-K	1704	R. E. Dunn

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Donny Paulich

REACTOR OPERATIONS DAILY REPORT

Handford Code C-05

DATE

10/15/65

ROUGH DRAFT
AFTER FILL-IN

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1700	0	1830				4400	4400	3530	8000	12330
2. MA' MUM POWER LEVEL - MW	1625	0	1830				4400	4300	3455	8780	12235
3. INPUT PRODUCTION - MWD	1125	0	1795				4399	4362	2920	8761	11681
4. OUTAGE HOURS	0	24.0	0				0	0	24.0	0	24.0
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD											LINE 5 TOTALS IN KWWD'S
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	16.7	17.6	17.0				15.7	15.4			INPUT PROD. FORECAST FOR MO.
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	85.5	19.0	94.0				94.3	94.5			TIME OPER. EFF. - MO-TO-DATE
8. REACTOR WATER FLOW RATE AT 2330- GPM ± 100G	89.8	5.0	90.2				210.5	210.0			TIME OPER. EFF. - 30 DAY AVG.
9. FACTOR LIMITING POWER LEVEL	N.E.		B.O.				E.A.L.	B.O.			TIME OPER. EFF. FORECAST FOR MO.
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.		25				N.	N.			
11. ESTIMATED STARTUP TIME											

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		SCRAMS		RECOVERIES		SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.					COMPLETED	REMAINING		
										272.0

REMARKS:

C - Reactor continuing down for scheduled work. Front nozzle change-out is 59% complete. The reaming of VSR channel No. 58 was completed.

RESTRICTED DATA

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GROUP 1

Excluded from automatic downgrading and declassification

ROUGH DRAFT
AFTER FILL-IN

SECRET - RUGH DRAFT
AFTER FILL-IN

REACTOR OPERATIONS DAILY REPORT

DATE 10/16/55

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1800	0	1830				4400	4400	3630	6300	12430
2. MAXIMUM POWER LEVEL - MW	1700	0	1530				4400	4400	3530	6300	12330
3. INPUT PRODUCTION - MWD	1710	0	1819				4400	4350	3529	6793	12287
4. OUTAGE HOURS	0	24.0	0				0	0	24.0	0	24.0
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD											LINE 5 TOTALS IN KWWD'S
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	16.8	16.7	15.5				15.4	15.1			INPUT PROD. FORECAST FOR MO.
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	91.5	18.5	94.0				94.3	94.8			TIME OPER. EFF. - MO. TO-DATE
8. REACTOR WATER FLOW RATE AT 2330- GPM ± 1000	99.0	5.0	90.2				210.0	210.0			TIME OPER. EFF. - 30 DAY AVG.
9. FACTOR LIMITING POWER LEVEL	N.E.		E.O.				E.A.L.	E.A.L.			TIME OPER. EFF. FORECAST FOR MO.
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.		17				N.	N.			
11. ESTIMATED STARTUP TIME											
	DATE										
	HOUR										

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	RAT.	EHR.	TUBE	V.S.			COMPLETED	REMAINING		
										265.0

C - The change-out of front nozzles is 73% complete.

SECRET - RUGH DRAFT
AFTER FILL-IN

ROUGH DRAFT
AFTER FILL-IN

REACTOR OPERATIONS DAILY REPORT

DATE 10/17/65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1796	0	0				4400	4400	1796	8800	10196
2. MAXIMUM POWER LEVEL - MW	1790	0	1305				4400	4400	3595	8800	12395
3. INPUT PRODUCTION - MWD	1735	0	1801				4400	4390	3536	8790	12376
4. OUTAGE HOURS	0	24.0	0				0	0	24.0	0	24.0
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	-3390	-3046	-3476				+13412	+9882	-9.9	+23.3	+13.4
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	17.4	17.1	13.7				15.2	15.5			
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	93.5	13.2	94.4				24.5	24.8			
8. REACTOR WATER FLOW RATE AT 2330- GPM ± 1000	39.8	5.0	90.2				210.0	210.0	68.0	100.0	86.3
9. FACTOR LIMITING POWER LEVEL	N.E.		B.O.				E.A.L.	B.O.	76.0	82.8	73.7
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.		N.				N.	H.			
11. ESTIMATED STARTUP TIME		10-22-65 1900	10-12-65 1500								
									79.3	88.3	88.9

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS		RECOVERIES		SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.					COMPLETED	REMAINING		
	0	2	0	2	1	0			1	0	0	270.0

REMARKS:

C - The change-out of front nozzles is 78% complete.
VSR channel No. 56 was bored to 37 feet and sleeves were installed in channel No. 59.

10/18/65 (12-8)

D - Reactor shut down at 0657 hours for the removal of a suspected enriched metal rupture from tube 1563.

ROUGH DRAFT
AFTER FILL-IN

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4	100-H	1704	O. C. Schroeder
5	100-H	1704	R. S. Bell
6	100-H	1704	A. P. Vinther
7	100-H	1704	H. G. Spencer
8	100-H	1704	S. M. Graves
9	100-D	1704	R. W. Reid
10	100-D	1760	Dewey Clark
11	100-D	1760	P. A. Carlson
12	100-D	1704	C. N. Gross
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15	100-D	1704	L. J. Newell
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REACTOR OPERATIONS DAILY

DATE _____

	B	C	D	DR	F	H	KE person KW	SMALL	K'S	TOTAL	
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1810	0	0				4400	0	1810	4400	6210
2. MAXIMUM POWER LEVEL - MW	1800	0	1805				4400	4400	3605	8300	12405
3. INPUT PRODUCTION - MWD	1795	0	515				4400	4398	2310	8798	11193
4. OUTAGE HOURS	0	24.0	17.0				0	0	41.0	0	41.0
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	-3002	-4233	-4567				+14267	+11554	LINE 5 TOTALS IN KMW'D'S -11.8 +24.8 +13.0		
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	16.1	17.0	20.0				15.0	14.9	INPUT PROD. FORECAST FOR MO. 130.2 225.4 355.6		
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	93.0	17.9	20.5				93.7	94.4	TIME OPER. EFF. - MO-TO-DATE 66.7 100.0 80.0		
8. REACTOR WATER FLOW RATE AT 2330- GPM ÷ 1000	89.7	5.0	6.6				210.0	210.0	TIME OPER. EFF. - 30 DAY AVG. 74.2 84.4 78.3		
9. FACTOR LIMITING POWER LEVEL	N.E.						E.A.L.	E.A.L.	TIME OPER. EFF. FORECAST FOR MO. 79.3 88.3 82.9		
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.						N.	N.			
11. ESTIMATED STARTUP TIME		10-23-65	10-19-65					10-20-65			
DATE HOUR		2300	1300					1800			

	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	MAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
12. COMBINED REACTORS MONTH-TO-DATE	0	3	0	2	1	0	1	0	0	263.0

REMARKS:

C - Reactor continuing down for scheduled work. The change-out of reactor hardware is 96% complete. The sleeving of channels 56, 57, 58 and 59 is continuing.

D - Reactor shut down at 0657 hours for the removal of an enriched rupture from tube 1568. The rupture was removed with the charging machine. Leak testing is in progress.

10/19/65 (12-8)

11-24-71
KW - Reactor scrambled at 0421 hours by a Panellit trip when the gage was inadvertently rolled to a high trip during spline insertion.

Inspection of the metal discharged from tube 4474 at B Reactor on 10/13/65 confirmed the presence of an I&F enriched
 group. [REDACTED] CH DBAET GROUP 1

SECRET **HIGH DRAFT**
AFTER-SHALL-IN

GROUP 1

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4	100-H	1704	O. C. Schroeder
5	100-H	1704	R. S. Bell
6	100-H	1704	A. P. Vinther
7	100-H	1704	H. G. Spencer
8	100-H	1704	S. M. Graves
9	100-D	1704	R. W. Reid
10	100-D	1760	Dewey Clark
11	100-D	1760	P. A. Carlson
12	100-D	1704	C. N. Gross
13	100-B	105-C	R. V. Myers
14	100-K	1704	C. G. Lewis
15	100-D	1704	L. J. Newell
16	WB	T-26	J. R. Young
17	200-E	202-A	G. L. Gurwell
18	100-K	1704	R. E. Dunn

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Long Paulich

REACTOR OPERATIONS DAILY REPORT

DATE 10/19/65

Hanford Code C-65

REDACTED
AFTER FILL-IN

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1810	0	1350				4400	0	3160	4400	7560
2. MAXIMUM POWER LEVEL - MW	1810	0	1350				4400	4400	3160	8800	11960
3. INPUT PRODUCTION - MWD	1808	0	219				4400	798	2027	5198	7225
4. OUTAGE HOURS	0	24.0	17.6				0	19.6	41.6	19.6	61.2
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	-2601	-4420	-5946				+15122	+7623	-14.0	+22.7	+8.7
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	16.3	16.5	16.7				15.2	15.6			
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	93.0	17.3	67.0				93.9	C.U.			
8. REACTOR WATER FLOW RATE AT 2330- GPM ± 1000	89.8	5.0	89.5				210.0	17.2	65.4	97.8	78.4
9. FACTOR LIMITING POWER LEVEL	B.O.		N.E.				E.A.L.		72.3	84.7	77.3
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.		N.				N.				
11. ESTIMATED STARTUP TIME		10-23-65 2300						10-21-65 0400	79.3	88.3	82.9

LINE 5 TOTALS IN KWWD'S

INPUT PROD. FORECAST FOR MO.

TIME OPER. EFF. - MO-TO-DATE

TIME OPER. EFF. - 30 DAY AVG.

TIME OPER. EFF. FORECAST FOR MO.

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
	0	3	0	2	2	1	1	0	0	215.0

REMARKS:

C - A total of 1885 nozzles have been replaced leaving 43 to be installed. VSR channels 56, 58 and 59 have been sleeved and channel 57 is ready to be sleeved.

D - Reactor resumed operation at 1525 hours concluding a rupture outage. The reactor was scrambled from 2048 hours to 2300 hours by a Panellit trip caused by a faulty spline cap seal.

KW - Reactor scrambled at 0421 hours when gage 3470 was adjusted in place of 3370 during spline movement. Charge-discharge will be completed.

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11	100-D	1760	P. A. Carlson
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ROUGH DRAFT
AFTER FILL-IN

Hanford Code C-65

REACTOR OPERATIONS DAILY REPORT

DATE 10/20/65

This document classified by

Long J. J. J.

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1825	0	1715				4400	0	3540	4400	7940
2. MAXIMUM POWER LEVEL - MW	1820	0	1680				4400	0	3500	4400	7900
3. INPUT PRODUCTION - MWD	1812	0	1419				4400	0	3231	4400	7631
4. OUTAGE HOURS	0	24.0	0				0	24.0	24.0	24.0	48.0
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	-2195	-6607	-6125				+15977	+3897	-14.9	+19.9	+5.0
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	16.3	16.7	16.3				15.1	16.0	130.2	225.4	355.6
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	93.5	17.6	86.8				93.8	C.U.	65.4	95.5	77.4
8. REACTOR WATER FLOW RATE AT 2330- GPM $\pm$ 1000	89.8	4.7	90.0				210.5	19.3	71.2	83.9	76.3
9. FACTOR LIMITING POWER LEVEL	B.O.		N.E.				E.A.L.		79.3	88.3	82.9
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.		17				N.		10-21-65		
11. ESTIMATED STARTUP TIME		10-23-65							1000		
		2300									

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
	0	3	0	2	2	1	1	0	0	220.0

REMARKS:

C - The installation of reactor hardware is complete and leak testing of this equipment is in progress. Also replaced five process tubes.

KW - Reactor continuing down for scheduled work following a Panellit trip. Two zirconium tubes were replaced.

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6	100-H	1704	A. P. Vinther
7	100-H	1704	H. G. Spencer
8	100-H	1704	S. M. Graves
9	100-D	1704	R. W. Reid
10	100-D	1760	Dewey Clark
11	100-D	1760	P. A. Carlson
12	100-D	1704	C. N. Gross
13	100-B	105-C	R. V. Myers
14	100-K	1704	C. G. Lewis
15	100-D	1704	L. J. Newell
16	WB	T-26	J. R. Young
17	200-E	202-A	G. L. Gurwell
18	100-K	1704	R. E. Dunn

ROUGH DRAFT
AFTER FILL-IN

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REACTOR OPERATIONS DAILY REPORT

DATE 10/21/65

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Raymond

	B	C	D	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0600 FOLLOWING DAY - MW	1830	0	1815			0	4100	3645	4100	7745
2. MAXIMUM POWER LEVEL - MW	1830	0	1800			4400	3700	3630	8100	11730
3. INPUT PRODUCTION - MWD	1826	0	1730			2154	701	3556	2855	6411
4. OUTAGE HOURS	0	24.0	0			12.0	14.3	24.0	26.3	50.3
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	-1775	-7794	-6009			+14586	+872	-15.6	+15.5	-0.1
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	16.2	16.6	16.7			16.8	14.9			
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	94.0	17.5	92.0			C.U.	80.0			
8. REACTOR WATER FLOW RATE AT 2330- GPM $\pm$ 1000	89.8	4.4	90.1			17.7	210.0	65.5	93.1	76.5
9. FACTOR LIMITING POWER LEVEL	B.O.		N.E.				N.E.			
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.		24					70.1	83.8	75.6
11. ESTIMATED STARTUP TIME		10-23-65				10-25-65				
		2300				1000		79.3	88.3	82.9

LINE 5 TOTALS IN KW/D'S

INPUT PROD. FORECAST FOR MO.

TIME OPER. EFF. - MO-TO-DATE

TIME OPER. EFF. - 30 DAY AVG.

TIME OPER. EFF. FORECAST FOR MO.

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	Y.S.			COMPLETED	REMAINING		
	*0	3	0	2	2	1	1	0	1	263.0

REMARKS:

C - The leak testing of front face hardware is continuing. The sleeving of VSR channels 56, 57, 58 and 59 is complete. Rods have been installed in channels 58 and 59. Charge-discharge is also in progress.

KE - Reactor shut down at 1200 hours for the removal of a failed thorium element from tube 5852. The reactor will remain down for scheduled charge-discharge and the replacement of three zirconium tubes. Eighteen pieces of Cobalt were discharged from loop 2.

KW - Reactor resumed operation at 1136 hours. The reactor was down from 1623 hours to 1906 hours due to insufficient control rod for turnaround.

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AFTER FILL-IN

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REACTOR OPERATIONS DAILY REPORT

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DATE 10/22/65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1830	0	1830				0	4270	3660	4270	7930
2. MAXIMUM POWER LEVEL - MW	1830	0	1830				0	4250	3660	4250	7910
3. INPUT PRODUCTION - MWD	1830	0	1816				0	4101	3646	4101	7747
4. OUTAGE HOURS	0	24.0	0				24.0	0	24.0	24.0	48.0
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD											LINE 5 TOTALS IN KWWD'S
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	16.2	16.9	16.8				16.9	14.9			INPUT PROD. FORECAST FOR MO.
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	94.0	17.6	93.5				C.U.	91.0			TIME OPER. EFF. - MO-TO-DATE
8. REACTOR WATER FLOW RATE AT 2330- GPM $\div$ 1000	89.0	103.2	90.2				18.8	211.0			TIME OPER. EFF. - 30 DAY AVG.
9. FACTOR LIMITING POWER LEVEL	B.O.		B.O.					N.E.			TIME OPER. EFF. FORECAST FOR MO.
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.		16					N.			
11. ESTIMATED STARTUP TIME	DATE										
	HOUR										

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
										240.0

REMARKS:

C - Scheduled charge-discharge is continuing.

KE - Scheduled charge-discharge is continuing; also, replaced three zirconium tubes.

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REACTOR OPERATIONS DAILY REPORT
AFTER FILL-IN

ROUGH DRAFT
AFTER FILL-IN

REACTOR OPERATIONS DAILY REPORT

DATE 10/23/65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1835	0	1805				0	4330	3640	4330	7970
2. MAXIMUM POWER LEVEL - MW	1835	0	1830				0	4300	3665	4300	7965
3. INPUT PRODUCTION - MWD	1831	0	1819				0	4282	3650	4282	7932
4. OUTAGE HOURS	0	24.0	0				24.0	0	24.0	24.0	48.0
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD										LINE 8 TOTALS IN KWWD'S	
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	16.6	16.6	19.0				16.8	15.0		INPUT PROD. FORECAST FOR MO.	
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	94.7	18.0	94.8				C.U.	92.6		TIME OPER. EFF. - MO-TO-DATE	
8. REACTOR WATER FLOW RATE AT 2330- GPM $\pm$ 1000	89.8	5.4	90.1				17.8	211.5		TIME OPER. EFF. - 30 DAY AVG.	
9. FACTOR LIMITING POWER LEVEL	B.O.		B.O.					N.E.		TIME OPER. EFF. FORECAST FOR MO.	
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.		14					N.			
11. ESTIMATED STARTUP TIME	DATE	DATE									
	HOUR										

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	HAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
										232.0

REMARKS:

C - Water pressure was raised and the correction of front face leaks on recently installed hardware is in progress.
 KE - Charge-discharge is continuing. Approximately eight hours were required to remotely remove the rear cap from tube 4177 in order to discharge hot metal from the rear nozzle. The tube was initially only partially discharged.

ROUGH DRAFT
AFTER FILL-IN

DECLASSIFIED

REACTOR OPERATIONS DAILY REPORT

REACTOR OPERATIONS DAILY REPORT

DATE 10/24/65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1835	1700	0				0	4400	3535	4400	7935
2. MAXIMUM POWER LEVEL - MW	1835	300	1810				0	4360	3945	4360	8305
3. INPUT PRODUCTION - MWD	1835	5	1807				0	4341	3647	4341	7988
4. OUTAGE HOURS	0	23.0	0				24.0	0	23.0	24.0	47.0
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	-499	-11350	-5385				+3950	+2423	-17.3	+6.4	-10.9
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	16.4	17.0	18.8				16.9	15.0	INPUT PROD. FORECAST FOR MO.		
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	94.5	20.5	94.8				C.U.	93.4	130.2	225.4	355.6
8. REACTOR WATER FLOW RATE AT 2330- GPM ± 1000	89.8	98.8	90.2				17.8	211.5	65.7	87.7	74.5
9. FACTOR LIMITING POWER LEVEL	B.O.	N.E.	B.O.					N.E.	TIME OPER. EFF. - 30 DAY AVG.		
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.		N.						70.2	83.8	75.6
11. ESTIMATED STARTUP TIME			10-26-65 0900				10-26-65 0800		TIME OPER. EFF. FORECAST FOR MO.		
									79.3	88.3	82.9

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
	*0	3	0	2	2	1	1	0	1	235.0

REMARKS: * One thoria failure not included.

C - Reactor resumed operation at 2259 hours.

KE - Charge-discharge is continuing.

10/25/65 (12-8)

D - Reactor shut down at 0100 hours due to high pressure on thoria tube 1470. The tube was discharged and investigation of the metal is in progress.

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Donna Trudick

REACTOR OPERATIONS DAILY REPORT

DATE 10/25/65

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	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1835	2010	0				0	4400	3845	4400	8245
2. MAXIMUM POWER LEVEL - MW	1835	1930	1805				0	4400	5570	4400	9970
3. INPUT PRODUCTION - MWD	1835	1664	61				0	4390	3560	4390	7950
4. OUTAGE HOURS	0	0	23.0				24.0	0	23.0	24.0	47.0
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	-70	-10873	-6930				+405	+3087	-17.9	+3.5	-14.4
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	15.6	16.2	19.0				15.1	14.5			
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	93.6	86.2	24.0				C.U.	93.8			
8. REACTOR WATER FLOW RATE AT 2330- GPM + 1000	89.6	105.3	6.6				195.2	211.5	65.8	86.2	73.9
9. FACTOR LIMITING POWER LEVEL	B.O.	N.E						E.A.L.			
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.	190						N.	69.1	83.8	75.0
11. ESTIMATED STARTUP TIME			10-26-65 0900				10-26-65 0900		79.3	88.3	82.9

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	MAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
	*0	4	0	2	4	2	1	0	1	275.0

REMARKS: *One thoria failure not included.

D - Reactor shut down at 0100 hours due to rupture indications. Three tubes were discharged as rupture suspects and an enriched ALS1 rupture was confirmed in tube 1370 which was charged on Pt-781 - Comparison Tests between HDS and ALS1 Fuel. The ten remaining tubes on this Production Test were also discharged.

KE - Charge-discharge was completed and a failed thoria element was removed from tube 5852 using 2000 lbs. pressure. 10/26/65 (12-8)

Reactor resumed operation at 0152 hours. Reactor scrambled from 0483 hours to 0514 hours when instrument personnel were checking the safety circuit on a side-to-side test hole. The reactor was again scrambled at 0618 hours by a Panellit trip on tube 0668.

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7	100-H	1704	H. G. Spencer
8	100-H	1704	S. M. Graves
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REACTOR OPERATIONS DAILY REPORT

DATE 10/26/65

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Jonny Funderb

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1835	2100	1700				0	4400	5635	4400	10035
2. MAXIMUM POWER LEVEL - MW	1835	2060	1600				3500	4400	5495	7900	13395
3. INPUT PRODUCTION - MWD	1835	2026	796				691	4400	4657	5091	9748
4. OUTAGE HOURS	0	0	9.7				12.3	0	9.7	12.3	22.0
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	+370	-10034	-7740				-2449	+3.761	-17.4	+1.3	-16.1
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	15.5	16.0	16.2				14.8	14.3	130.2	225.4	355.6
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	93.6	89.7	83.3				17.3	93.7	TIME OPER. EFF. - MO-TO-DATE		
8. REACTOR WATER FLOW RATE AT 2330- GPM + 1000	89.6	106.7	90.0				132.0	211.0	66.6	85.7	74.2
9. FACTOR LIMITING POWER LEVEL	B.O.	N.E.	N.E.					E.A.L.	TIME OPER. EFF. - 30 DAY AVG.		
10. DAILY ABNORMAL WATER COLLECTION - GAL.S.	N.	166	23					35	68.7	84.6	75.1
11. ESTIMATED STARTUP TIME DATE HOUR							10-27-65 1600		79.3	88.3	82.9

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	MAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
#1	4	0	2	4	2	1	0	2	294.0	

REMARKS. *One thorla failure not included.

D - Reactor resumed operation at 0940 hours concluding a rupture outage. Three process tubes were replaced during the outage.

KE - Reactor resumed operation at 0152 hours concluding scheduled work. Reactor scrambled from 0438 hours to 0514 hours when instrument personnel accidentally checked the safety circuit on a side-to-side test hole.

The reactor was shut down at 0902 hours by a Panellit trip on tube 0668. The reactor was shut down from 0618 hours to 1025 hours due to oscillation on Panellit gage 0668. The tube was discharged and debris from 1025 hours to 1616 hours was noted in the tube. This foreign material is assumed to have also caused the previous Panellit trip. The reactor was shut down at 2247 hours for the removal of a natural metal rupture from tube 4376.

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ROUGH DRAFT
AFTER FILL-IN

Hanford Code C-65

REACTOR OPERATIONS DAILY REPORT

DATE 10/27/65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1835	2150	1810				4175	4400	5795	8575	14370
2. MAXIMUM POWER LEVEL - MW	1835	2130	1800				3950	4400	5765	8350	14115
3. INPUT PRODUCTION - MWD	1835	2110	1718				1131	4400	5663	5531	11194
4. OUTAGE HOURS	0	0	0				15.0	0	0	15.0	15.0
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	+799	-9111	-7628				-4863	+4435	-16.0	-0.4	-16.4
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	15.3	15.9	16.1				14.8	14.2	LINE 5 TOTALS IN KWWD'S		
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	93.3	91.7	92.1				84.6	93.6	INPUT PROD. FORECAST FOR MO.		
8. REACTOR WATER FLOW RATE AT 2330- GPM ÷ 1000	89.6	107.2	90.0				207.5	210.5	130.2	225.4	355.6
9. FACTOR LIMITING POWER LEVEL	B.O.	N.E.	N.E.				N.E.	E.A.L.	TIME OPER. EFF. - MO-TO-DATE		
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.	91	36					N.	67.8	85.1	74.7
11. ESTIMATED STARTUP TIME									TIME OPER. EFF. - 30 DAY AVG.		
									69.8	85.2	76.0
									TIME OPER. EFF. FORECAST FOR MO.		
									79.3	88.3	82.9

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
	*1	4	0	2	4	2	1	0	2	295.0

REMARKS:

RE - Reactor resumed operation at 1500 hours concluding a rupture outage.

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Tony Conduche

ROUGH DRAFT
AFTER FILL-IN

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REACTOR OPERATIONS DAILY REPORT

DATE 10-28-65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1835	0	1820				4400	4400	3655	8800	12455
2. MAXIMUM POWER LEVEL - MW	1835	2160	1810				4400	4400	5805	8800	14605
3. INPUT PRODUCTION - MWD	1835	1750	1810				4222	4400	5395	8622	14017
4. OUTAGE HOURS	0	4.7	0				0	0	4.7	0	4.7
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	+1215	-8548	-7424				-4186	+5109	-14.8	+0.9	-13.9
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	15.5	16.2	17.3				14.9	14.5	LINE 5 TOTALS IN KWWD'S		
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	93.8	18.0	93.3				93.3	93.7	130.2	225.4	355.6
8. REACTOR WATER FLOW RATE AT 2330- GPM + 1000	89.4	100.5	90.0				210.0	211.0	68.7	85.6	75.5
9. FACTOR LIMITING POWER LEVEL	B.O.		B.O.				E.A.L.	E.A.L.	69.9	86.6	76.6
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.	49	17				N.	30	TIME OPER. EFF. - 30 DAY AVG.		
11. ESTIMATED STARTUP TIME	DATE	10-30-65							79.3	88.3	82.9
	HOUR	0330							TIME OPER. EFF. - MO-TO-DATE		

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
	*1	4	0	2	5	2	1	0	2	295.0

REMARKS:

*One thoria not included.

C- Reactor scrammed at 1917 hours due to an unexplained Panellit trip on tube 3264. Miscellaneous maintenance work in progress.

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Larry P. Smith

ROUGH DRAFT
AFTER FILL-IN

Hanford Code C-55

REACTOR OPERATIONS DAILY REPORT

DATE 10/29/65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1835	0	1820				4400	4400	3655	8800	12455
2. MAXIMUM POWER LEVEL - MW	1835	0	1820				4400	4400	3655	8800	12455
3. INPUT PRODUCTION - MWD	1835	0	1817				4400	4400	3652	8800	12452
4. OUTAGE HOURS	0	24.0	0				0	0	24.0	0	24.0
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD										LINE 5 TOTALS IN KWWD'S	
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	15.7	15.7	17.1				14.8	14.2			
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	93.8	19.1	93.9				93.3	93.6			
8. REACTOR WATER FLOW RATE AT 2330- GPM ÷ 1000	89.1	3.5	90.1				210.5	211.0			
9. FACTOR LIMITING POWER LEVEL	B.O.		B.O.				E.A.L.	E.A.L.			
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.		N.				N.	N.			
11. ESTIMATED STARTUP TIME											
	DATE										
	HOUR										

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
										289.0

REMARKS:

C - Reactor continuing down on an outage initiated by an unexplained Panellit trip on over-bore tube 3264.

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GROUP 1

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ROUGH DRAFT
AFTER FILL-IN

ROUGH DRAFT
AFTER FILL-IN

REACTOR OPERATIONS DAILY REPORT

DATE 10/30/65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1835	1940	1790				4400	4400	5565	8800	14365
2. MAXIMUM POWER LEVEL - MW	1835	1900	1820				4400	4400	5555	8800	14355
3. INPUT PRODUCTION - MWD	1835	963	1810				4400	4400	4608	8800	13408
4. OUTAGE HOURS	0	9.4	0				0	0	9.4	0	9.4
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD									LINE 5 TOTALS IN KMW'S		
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	13.7	16.8	19.7				15.6	15.0	INPUT PROD. FORECAST FOR MO.		
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	93.9	84.0	94.9				94.3	94.4	TIME OPER. EFF. - MO-TO-DATE		
8. REACTOR WATER FLOW RATE AT 2330- GPM ± 1000	89.0	107.2	90.2				210.0	211.0	TIME OPER. EFF. - 30 DAY AVG.		
9. FACTOR LIMITING POWER LEVEL	B.O.	N.E.	B.O.				E.A.L.	E.A.L.	TIME OPER. EFF. FORECAST FOR MO.		
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.	55	N.				N.	N.			
11. ESTIMATED STARTUP TIME	DATE	DATE	DATE								
	HOUR	HOUR	HOUR								

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR.	TUBE	V.S.			COMPLETED	REMAINING		
										292.0

REMARKS:

C - Resumed operation at 0732 hours. Reactor scrambled from 0749 to 0940 hours by a low pressure Panellit trip on overbore tube 3168.

ROUGH DRAFT
AFTER FILL-IN

~~SECRET~~ ROUGH DRAFT

AFTER FILL-IN

REACTOR OPERATIONS DAILY REPORT

DATE 10/31/65

	B	C	D	DR	F	H	KE	KW	SMALL	K'S	TOTAL
1. POWER LEVEL AT 0800 FOLLOWING DAY - MW	1935	2085	1800				4400	4400	5720	2250	14520
2. MAXIMUM POWER LEVEL - MW	1835	2050	1795				4400	4400	5680	2250	14400
3. INPUT PRODUCTION - MWD	1911	2041	1865				4583	4583	5817	2166	14483
4. OUTAGE HOURS	0	0	0				0	0	0	0	0
5. INPUT PRODUCTION VARIANCE FROM FORECAST-M-T-D - MWD	+2577	-9108	-6746				-1439	+7315	-13.3	+5.9	-7.4
6. REACTOR INLET WATER TEMPERATURE AT 2330- C	15.5	16.5	19.4				15.5	14.2	130.2	225.4	255.6
7. BULK OUTLET WATER TEMPERATURE AT 2330- C	93.7	88.9	94.9				94.1	94.2	70.3	87.0	77.0
8. REACTOR WATER FLOW RATE AT 2330- GPM $\pm$ 1000	89.1	107.2	90.4				210.0	211.0	70.4	86.6	76.2
9. FACTOR LIMITING POWER LEVEL	B.O.	N.E.	B.O.				E.A.L.	E.A.L.	79.3	88.2	82.9
10. DAILY ABNORMAL WATER COLLECTION - GALS.	N.	63.0	N.				N.	N.			
11. ESTIMATED STARTUP TIME	DATE	DATE	DATE								
	11. ESTIMATED	11. ESTIMATED	11. ESTIMATED								
	STARTUP TIME	STARTUP TIME	STARTUP TIME								

12. COMBINED REACTORS MONTH-TO-DATE	RUPTURES		WATER LEAKS		SCRAMS	RECOVERIES	SCHEDULED OUTAGES		OTHER OUTAGES	DAILY PEAK ELECT. DEMAND - MEGAWATTS
	NAT.	ENR	TUBE	V.S.			COMPLETED	REMAINING		
#1		4	0	2	6	2	1	0	2	293.0

REMARKS: * One thoria failure not included.

Item 3 represents 25 hours of operation due to the change from daylight to Pacific standard time.

~~SECRET~~ ROUGH DRAFT

AFTER FILL-IN

DISCONTINUATION:

<u>Copy No.</u>	<u>Area</u>	<u>Bldg.</u>	<u>Name</u>
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2	700	703	R. L. Plann
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15	100-D	1704	L. J. Newell
16	WF	T-26	J. R. Young
17	200-E	202-A	G. L. Gurwell
18	100-K	1704	R. E. Dunn

END

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9 / 16 / 92