

VIRGINIA ELECTRIC AND POWER COMPANY

SURRY POWER STATION

MONTHLY OPERATING REPORT

REPORT NO. 84-10

APPROVED BY: JL Benson for R.F. Saunders  
STATION/MANAGER

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IE24  
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## VEPCO OPERATING DATA REPORT

PROGRAM NOS12662 11/05/84 14.10.09

DOCKET NO. 50-280  
 DATE OCT. 1, 1984  
 COMPLETED BY V. JONES  
 TELEPHONE 804-357-3184

## OPERATING STATUS

1. UNIT NAME  
 2. REPORTING PERIOD  
 3. LICENSED THERMAL POWER -MWT-  
 4. NAMEPLATE RATING -GROSS MWE-  
 5. DESIGN ELECTRICAL RATING -NET MWE-  
 6. MAXIMUM DEPENDABLE CAPACITY -GROSS MWE-  
 7. MAXIMUM DEPENDABLE CAPACITY -NET MWE-  
 8. IF CHANGES OCCUR IN CAPACITY RATINGS  
 -ITEMS 3 THROUGH 7- SINCE LAST  
 REPORT, GIVE REASONS  
 9. POWER LEVEL TO WHICH RESTRICTED, IF ANY  
 -NET MWE-  
 10. REASONS FOR RESTRICTIONS, IF ANY

SURRY UNIT 1  
 OCTOBER 01, 1984 to OCTOBER 31, 1984

2441  
 847.5  
 788  
 811  
 775

N/A

11. HOURS IN REPORTING PERIOD  
 12. NUMBER OF HOURS REACTOR WAS CRITICAL  
 13. REACTOR RESERVE SHUTDOWN HOURS  
 14. HOURS GENERATOR ON-LINE  
 15. UNIT RESERVE SHUTDOWN HOURS  
 16. GROSS THERMAL ENERGY GENERATED -MWH-  
 17. GROSS ELECTRICAL ENERGY GENERATED -MWH-  
 18. NET ELECTRICAL ENERGY GENERATED -MWH-  
 19. UNIT SERVICE FACTOR  
 20. UNIT AVAILABILITY FACTOR  
 21. UNIT CAPACITY FACTOR -USING MDL NET-  
 22. UNIT CAPACITY FACTOR -USING DER NET-  
 23. UNIT FORCED OUTAGE RATE  
 24. SHUTDOWNS SCHEDULED OVER NEXT 6 MONTHS  
 -TYPE, DATE AND DURATION OF EACH-  
 25. IF SHUT DOWN AT END OF REPORT PERIOD,  
 ESTIMATE TIME OF STARTUP  
 26. UNIT'S IN TEST STATUS  
 -PRIOR TO COMMERCIAL OPERATION-

THIS MONTH YR-TO-DATE CUMMULATIVE

745.0	7320.0	103968.0
0.0	5163.3	64256.2
0.0	9.3	3774.5
0.0	5100.3	62967.5
0.0	0.0	3736.2
0.0	11041689.9	145967994.2
0.0	3523505.0	46843348.0
0.0	3327010.0	44404746.0
0.0%	69.7%	60.6%
0.0%	69.7%	64.2%
0.0%	58.6%	55.1%
0.0%	57.7%	54.2%
0.0%	4.0%	20.4%

12-14-84  
 FORECAST

ACHIEVED

INITIAL CRITICALITY  
 INITIAL ELECTRICITY  
 COMMERCIAL OPERATION



## VEPCO OPERATING DATA REPORT

PROGRAM NUS12662 11/05/84 14.10.16

DOCKET NO. 50-281  
 DATE OCT. 1, 1984  
 COMPLETED BY V. JONES  
 TELEPHONE 804-357-3184

## OPERATING STATUS

1. UNIT NAME  
 2. REPORTING PERIOD  
 3. LICENSED THERMAL POWER -MWT-  
 4. NAMEPLATE RATING -GROSS MWE-  
 5. DESIGN ELECTRICAL RATING -NET MWE-  
 6. MAXIMUM DEPENDABLE CAPACITY -GROSS MWE-  
 7. MAXIMUM DEPENDABLE CAPACITY -NET MWE-  
 8. IF CHANGES OCCUR IN CAPACITY RATINGS  
 -ITEMS 3 THROUGH 7- SINCE LAST  
 REPORT, GIVE REASONS  
 9. POWER LEVEL TO WHICH RESTRICTED, IF ANY  
 -NET MWE-  
 10. REASONS FOR RESTRICTIONS, IF ANY

SURRY UNIT 2  
 OCTOBER 01, 1984 to OCTOBER 31, 1984  
 2441  
 847.5  
 788  
 811  
 775  
 N/A

	THIS MONTH	YR-TO-DATE	CUMMULATIVE
11. HOURS IN REPORTING PERIOD	745.3	7320.0	100848.0
12. NUMBER OF HOURS REACTOR WAS CRITICAL	688.9	6454.8	65025.7
13. REACTOR RESERVE SHUTDOWN HOURS	0.0	23.8	328.1
14. HOURS GENERATOR ON-LINE	688.9	6390.2	63966.2
15. UNIT RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
16. GROSS THERMAL ENERGY GENERATED -MWH-	1669777.1	15200449.5	149916322.4
17. GROSS ELECTRICAL ENERGY GENERATED -MWH-	536380.0	4832930.0	48627789.0
18. NET ELECTRICAL ENERGY GENERATED -MWH-	509715.0	4580337.0	46087397.0
19. UNIT SERVICE FACTOR	92.5%	87.3%	63.4%
20. UNIT AVAILABILITY FACTOR	92.5%	87.3%	63.4%
21. UNIT CAPACITY FACTOR -USING MDC NET-	88.3%	80.7%	59.0%
22. UNIT CAPACITY FACTOR -USING DER	86.8%	79.4%	58.0%
23. UNIT FORCED OUTAGE RATE	7.5%	12.7%	14.6%
24. SHUTDOWNS SCHEDULED OVER NEXT 6 MONTHS -TYPE, DATE AND DURATION OF EACH-			
25. IF SHUT DOWN AT END OF REPORT PERIOD, ESTIMATE TIME OF STARTUP	11-13-84		
26. UNITS IN TEST STATUS -PRIOR TO COMMERCIAL OPERATION-	FORECAST	ACHIEVED	

INITIAL CRITICALITY  
 INITIAL ELECTRICITY  
 COMMERCIAL OPERATION

# UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH October, 1984

DOCKET NO. 50-280  
 UNIT NAME Surry 1  
 DATE 11-5-84  
 COMPLETED BY V. Jones  
 TELEPHONE 804-357-3184

No.	Date	Type <sup>1</sup>	Duration (Hours)	Reason <sup>2</sup>	Method of Shutting Down Reactor <sup>3</sup>	Licensee Event Report #	System Code <sup>4</sup>	Component Code <sup>5</sup>	Cause & Corrective Action to Prevent Recurrence
84-9		S	745.0	A	3				Commenced refueling outage 09-26-84.

<sup>1</sup>  
 F: Forced  
 S: Scheduled

<sup>2</sup>  
 Reason:  
 A-Equipment Failure (Explain)  
 B-Maintenance of Test  
 C-Refueling  
 D-Regulatory Restriction  
 E-Operator Training & License Examination  
 F-Administrative  
 G-Operational Error (Explain)  
 H-Other (Explain)

<sup>3</sup>  
 Method:  
 1-Manual  
 2-Manual Scram.  
 3-Automatic Scram.  
 4-Other (Explain)

<sup>4</sup>  
 Exhibit G - Instructions  
 for Preparation of Data  
 Entry Sheets for Licensee  
 Event Report (LER) File (NUREG-  
 0161)

<sup>5</sup>  
 Exhibit I - Same Source

(1/77)

# UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH October, 1984

DOCKET NO. 50-281  
 UNIT NAME Surry II  
 DATE 11-5-84  
 COMPLETED BY V. Hones  
 TELEPHONE 804-357-3184

No.	Date	Type <sup>1</sup>	Duration (Hours)	Reason <sup>2</sup>	Method of Shutting Down Reactor <sup>3</sup>	Licensee Event Report #	System Code <sup>4</sup>	Component Code <sup>5</sup>	Cause & Corrective Action to Prevent Recurrence
84-25	10-29-84	F	56.1	G	3				Reactor trip, while testing "D" transfer bus an auto load shedding signal was initiated when breaker 25A2 was closed in the test position. This caused a loss of "A" main feed pump and "A" condensate pump and the unit tripped on low steam generator levels. Testing and operating procedures are to be changed to insure that auto load shedding will be defeated prior to any testing of RSS busses.

<sup>1</sup>  
 F: Forced  
 S: Scheduled

<sup>2</sup>  
 Reason:  
 A-Equipment Failure (Explain)  
 B-Maintenance of Test  
 C-Refueling  
 D-Regulatory Restriction  
 E-Operator Training & License Examination  
 F-Administrative  
 G-Operational Error (Explain)  
 H-Other (Explain)

<sup>3</sup>  
 Method:  
 1-Manual  
 2-Manual Scram.  
 3-Automatic Scram.  
 4-Other (Explain)

<sup>4</sup>  
 Exhibit G - Instructions for Preparation of Data Entry Sheets for Licensee Event Report (LER) File (NUREG-0161)

<sup>5</sup>  
 Exhibit I - Same Source

(1/77)

LOAD REDUCTIONS DUE TO ENVIRONMENTAL RESTRICTIONSUNIT NO. 1MONTH: October, 1984

<u>DATE</u>	<u>TIME</u>	<u>HOURS</u>	<u>LOAD, MW</u>	<u>REDUCTIONS, MW</u>	<u>MWH</u>	<u>REASON</u>
NONE DURING THIS REPORTING PERIOD.						
MONTHLY TOTAL						

LOAD REDUCTIONS DUE TO ENVIRONMENTAL RESTRICTIONSUNIT NO. IIMONTH: October, 1984

<u>DATE</u>	<u>TIME</u>	<u>HOURS</u>	<u>LOAD, MW</u>	<u>REDUCTIONS, MW</u>	<u>MWH</u>	<u>REASON</u>
NONE DURING THIS REPORTING PERIOD.						
MONTHLY TOTAL						

VEPCO AVERAGE DAILY UNIT POWER LEVEL

SURRY POWER STATION

PROGRAM NOS12681 11/06/84 08.19.11

REPORTING MONTH - OCTOBER 1984

DOCKET NO. 50-280

DOCKET NO. 50-281

DATE OCT. 1, 1984

COMPLETED BY V. JONES

UNIT ONE

DAY	AVERAGE DAILY POWER LEVEL -MWE-NET-
1	0.0
2	0.0
3	0.0
4	0.0
5	0.0
6	0.0
7	0.0
8	0.0
9	0.0
10	0.0
11	0.0
12	0.0
13	0.0
14	0.0
15	0.0
16	0.0
17	0.0
18	0.0
19	0.0
20	0.0
21	0.0
22	0.0
23	0.0
24	0.0
25	0.0
26	0.0
27	0.0
28	0.0
29	0.0
30	0.0
31	0.0

UNIT TWO

AVERAGE DAILY POWER LEVEL -MWE-NET-
739.2
739.0
739.9
739.4
740.7
741.6
743.4
742.6
743.0
742.6
742.7
740.1
739.3
740.0
739.9
736.6
737.7
736.6
741.1
740.3
740.2
739.4
740.3
738.5
741.1
739.1
738.3
768.0
487.5
0.0
0.0



SUMMARY OF OPERATING EXPERIENCEMONTH/YEAR    October, 1984

Listed below in chronological sequence by unit is a summary of operating experiences for this month which required load reductions or resulted in significant non-load related incidents.

UNIT ONE

10-01-84	0000	This reporting period begins with the unit at CSD on RHR.
10-03-84	1530	All RCS loops drained at RSD.
10-05-84	2200	Commenced phase "A" sipping.
10-07-84	1400	Completed phase "A" sipping.
10-15-84	1643	Reactor head lift completed.
10-18-84	1722	Commenced fuel off-load.
10-20-84	1427	Completed fuel off-load.
10-21-84	1400	Commenced phase "B" sipping.
	1834	Commenced split pin replacement.
10-23-84	2400	Completed phase "B" sipping.
10-24-84	0000	Commenced phase "C" sipping.
10-26-84	0400	Completed phase "C" sipping.
10-27-84	1400	Commenced fuel debris cleaning.
10-31-84	2400	This reporting period ends with the unit at RSD.

SUMMARY OF OPERATING EXPERIENCEMONTH/YEAR October, 1984

Listed below in chronological sequence by unit is a summary of operating experiences for this month which required load reductions or resulted in significant non-load related incidents.

UNIT TWO

10-01-84	0000	This reporting period begins with the unit at 100% power (775 MW's).
10-29-84	1553	Reactor trip caused by low level in steam generators following loss of "A" main feed pump.
	1808	"A" RCP thrust bearing failed after pump was started.
10-30-84	0030	Commenced plant cooldown for repair of "A" RCP.
	1007	RCS < 350°F, 450 psig, RHR in service.
	1403	RCS < 200°F.
10-31-84	1344	RCS is degassed.
	2400	This reporting period ends with the unit at CSD on RHR, preparing to drain RCS for maintenance.

AMENDMENTS TO FACILITY LICENSE OR TECHNICAL SPECIFICATIONS

NONE DURING THIS REPORTING PERIOD.

**FACILITY CHANGES REQUIRING**  
**NRC APPROVAL**

**NONE DURING THIS REPORTING PERIOD.**

FACILITY CHANGES THAT  
DID NOT REQUIRE NRC APPROVAL

October, 1984

		<u>UNIT</u>
<u>DC 83-20</u>	<u>Fuel Building Block Walls - Modification</u>	1&2
	Seven block walls in the Fuel Building were identified as not meeting the re-evaluation criteria of IE Bulletin 80-11. This design change replaces these masonry walls with blow-off siding.	
	<u>Summary of Safety Analysis</u>	
	The modification has no effect on station operations or the operations of any safety-related equipment. Temporary barriers at the site of construction and the covers over the fuel pool were installed in order to reduce the possibility of debris or materials falling into the spent fuel pool.	
<u>DC 83-16</u>	<u>Post Accident Sampling System Shielding</u>	1&2
	This design change added an overhead shield to reduce indirect (scatter) radiation resulting from operation of the Post Accident Sampling System.	
	<u>Summary of Safety Analysis</u>	
	The additional seismic shielding will not affect the structural integrity of the Drumming Room. The modification does not affect station operation or the operation of any safety-related equipment.	

TESTS AND EXPERIMENTS REQUIRING  
NRC APPROVAL

NONE DURING THIS REPORTING PERIOD.

TESTS AND EXPERIMENTS THAT  
DID NOT REQUIRE NRC APPROVAL

NONE DURING THIS REPORTING PERIOD.



OTHER CHANGES, TESTS AND EXPERIMENTS

	<u>UNIT</u>		
ST-52	1	RCS Flow Measurement Data	09-25-84
ST-52	1	RCS Flow Measurement Data	10-13-84
ST-169	1	Determination of Secondary Valve Leakage	09-20-84
ST-52	2	RCS Flow Measurement Data	10-17-84
ST-52	2	RCS Flow Measurement Data	10-18-84
ST-166	1 & 2	Valve/Steam Trap Leakage Test	09-10-84

VIRGINIA ELECTRIC AND POWER COMPANY  
SURRY POWER STATION  
CHEMISTRY REPORT

October     19 84

(A)

PRIMARY COOLANT ANALYSIS	UNIT NO. 1			UNIT NO. 2		
	MAXIMUM	MINIMUM	AVERAGE	MAXIMUM	MINIMUM	AVERAGE
Gross Radioact., $\mu\text{Ci/ml}$	5.50 E-1	2.76 E-3	1.69 E-1	1.73 E-1	1.72 E-2	7.78 E-2
Suspended Solids, ppm	1.0	1.0	1.0	0.0	0.0	0.0
Gross Tritium, $\mu\text{Ci/ml}$	---	---	---	1.21 E-1	1.09 E-1	1.14 E-1
Iodine <sup>131</sup> , $\mu\text{Ci/ml}$	3.57 E-2	2.40 E-5	3.34 E-3	3.25 E-4	1.00 E-4	1.73 E-4
I <sup>131</sup> /I <sup>133</sup>	---	---	---	0.34	0.06	0.13
Hydrogen, cc/kg	1.3	1.3	1.3	47.5	4.4 <sup>(B)</sup>	29.4
Lithium, ppm	---	---	---	1.95 <sup>(C)</sup>	0.61 <sup>(C)</sup>	0.83 <sup>(C)</sup>
Boron-10, ppm*	430	195	406	209	50	77
Oxygen, (D.O.), ppm	3.2	0.3	1.4	$\leq 0.005$	$\leq 0.005$	$\leq 0.005$
Chloride, ppm	$\leq 0.02$	$\leq 0.02$	$\leq 0.02$	$\leq 0.02$	$\leq 0.02$	$\leq 0.02$
pH @ 25°C	5.74	4.35	4.74	6.69	6.14	6.53

\* Boron-10 = Total Boron x 0.196

NON-RADIOACTIVE CHEMICAL (D)  
RELEASES, POUNDS  
T.S. 4.13.A.6

Phosphate	---	Boron	973
Sulfate	---	Chromate	0.0
50% NaOH	---	Chlorine	---

REMARKS: (A) UNIT SHUTDOWN FOR REFUELING (B) UNIT BEING DEGASSED (C) CATION BED  
 PLACED IN SERVICE ON UNIT TWO FOR LITHIUM REMOVAL ON 10-3 AND 10-14 LITHIUM ADDI-  
 TIONS ON UNIT TWO - 130grams ON 10-27, 1424grams ON 10-29, AND 1065grams ON 10-30.  
 UNIT TWO REACTOR TRIP ON 10-29 AT 1550 HRS (D) THE LEVELS OF THESE CHEMICALS SHOULD  
 PRODUCE NO ADVERSE ENVIRONMENTAL EFFECT.

DESCRIPTION OF ALL INSTANCES WHERE  
THERMAL DISCHARGE LIMITS WERE EXCEEDED

NONE DURING THIS REPORTING PERIOD.

UNIT # I

Month/Year October, 1984

[illegible]

UNIT # II

Month/Year October, 1984

[illegible]



FUEL HANDLING

NONE DURING THIS REPORTING PERIOD.



FUEL HANDLING

NONE DURING THIS REPORTING PERIOD.

<u>NUMBER</u>	<u>UNIT</u>	<u>TITLE</u>
Annunciator 2C-26 (D-2)	2	RCP Thermal Barrier Ret HDR HI Flow
Annunciator 2C-10 (B-2)	2	RCP 1B Thermal Barrier CC HI Flow
Annunciator 1C-2 (A-2)	1	RCP 1A Thermal Barrier CC HI Flow
Annunciator 1C-10 (B-2)	1	RCP 1B Thermal Barrier CC HI Flow
Annunciator 1C-18 (C-2)	1	RCP 1C Thermal Barrier CC HI Flow
Annunciator 1C-2C (D-2)	1	RCP Thermal Barrier Ret HDR HI Flow
Annunciator 2C-18 (C-2)	2	RCP 1C Thermal Barrier CC HI Flow
Annunciator 2C-2 (A-2)	2	RCP 1A Thermal Barrier CC HI Flow

DESCRIPTION OF PERIODIC TESTS WHICH WERE NOT  
COMPLETED WITHIN THE TIME LIMITS  
SPECIFIED IN TECHNICAL SPECIFICATIONS

NONE DURING THIS REPORTING PERIOD.

MAINTENANCE OF SAFETY RELATED SYSTEMS DURING  
OUTAGE OR REDUCED POWER PERIODS

UNIT NO. 1

MECHANICAL MAINTENANCE

DEPT	RETURNED TO SERVICE	MARK NUMBER	MO NUMBER	MO TITLE	HISTORY SUMMARY
	10/16/84	01-CH -MOV -1287B	007073	PERFORM PMS CH-MOV-E/R1	PERFORMED PMS CH-MOV-E/C1
R03	10/01/84	01-CH - -385	006451	REPLACE DIAPHRAGM	CHANGED DIAPHRAGM AND BONNET
R03	10/22/84	01-FH -DRIV-NA	007844	AIR MOTOR COUPLING IS MISALIGN	SHIMMED AIR MOTOR, TIGHTENED AIR LINES.
R03	10/22/84	01-WT - -176	007798	REASSEMBLE CHECK VALVE	REASSEMBLED VALVE REPLACED GASKET # 1741021
R03	10/22/84	01-WT - -179	007797	REASSEMBLE CK VALVE	REASSEMBLED VALVE REPLACED GASKET # 1741021
R03	10/27/84	01-RH -MOV -1700	008414	HANDWHEEL SPINS FREELY KEY IS MISSING.	INSTALLED 1/4X1" KEY STOCK PUT HANDWHEEL ON TIGHTENED SETSCREW
R03	10/01/84	01-CH - -162	001643	PACKING LEAK LEAKAGE REDUCTION	ADJUSTED PACKING
R03	10/01/84	01-CH - -298	001646	PACKING LEAK 1 DROP/MIN	ADJUSTED PACKING
R03	10/01/84	01-FW -PP -9	002829	AMOUNT OF INSULATION INSTALLED	INSULATION REMOVED FROM PIPE
R03	10/01/84	01-RM -DR -32	005572	REMOVE CEMENT BLOCK COVER OVER Radiation Monitor.	COVER REMOVED COVER INSTALLED
R03	10/01/84	01-SI -MOV -1860B	001801	REPLACE HANDWHEEL	REPLACED HANDWHEEL HANDWHEEL SPARE FROM MAINT. SHOP
R03	10/01/84	01-VS -E -4A	004380	END BELL LEAKS. LEAKING WATER	REPAIRED END BELL- INSTALLED NEW GASKET
R03	10/01/84	01-VS -E -4B	005945	CHILLER SERVICE WATER ENDBELL	REPLACE ZINCE PLUG WHICH REPAIRED LEAK.
R03	10/02/84	01-MS - -270	004521	LEAKS BY SEAT	OLD VALVE SCREWED OUT OF SYSTEM. NIPPLES WELDED IN NEW VALVE AND VALVE SCREWED INTO SYSTEM.
R03	10/02/84	01-MS - -338	004400	VALVE LEAKS BY	OLD VALVE CUT OUT/NEW VALVE WELDED IN
R03	10/06/84	01-MS - -104	002521	VALVE HAS BEEN FURNANITED	REPLACED VALVE
R03	10/06/84	01-MS - -341	004401	VALVE LEAKS BY	OLD VALVE CUT OUT, NEW VALVE WELDED IN
R03	10/06/84	01-MS - -377	003501	VALVE LEAKS THRU	OLD VALVE CUT OUT, NEW VALVE WELDED IN
R03	10/06/84	01-MS - -378	003498	VALVE LEAKS THRU	OLD VALVE CUT OUT, NEW VALVE WELDED IN
R03	10/06/84	01-MS - -7	004399	VALVE LEAKS BY	OLD VALVE CUT OUT, NEW VALVE WELDED IN
R03	10/06/84	01-MS - -8	001045	VALVE HAS BROKEN STEM REPLACE	CUT OUT VALVE AND SECTION OF PIPE.

DEPT	RETURNED TO SERVICE	MARK NUMBER	WO NUMBER	WO TITLE	HISTORY SUMMARY
					REPLACED SAME.
R03	10/06/84	01-MS - -B1	005403	VALVE LEAKS BY	OLD VALVE CUT OUT, NEW VALVE WELDED IN
R03	10/06/84	01-MS -PI -476	005645	PERFORM REFUELING LOOP	PERFORMED PT 2.6A (P-1-476) CALIBRATION SAT. PT SENT TO ENGINEERING.
R03	10/06/84	01-MS -TD -NA	004392	TRAPS LEAKS BY	INSTALLED NEW SEAT MECHANISM
R03	10/06/84	01-MS -TV -109	002186	VALVE NEEDS REPACKING	FOUND PACKING NOT FULLY CONTAINED BY STUFFING BOX. REMOVED 10 RINGS OF 3/8" PACKING INSTALLED 9 RINGS OF 3/8" GARLOCK 98 PACKING
R03	10/06/84	01-VS -MISC-NA	006793	BOOT COLLAPSED, RE-TAPE TO Blow Air To Unit 2.	RETAPPED BOOT
R03	10/08/84	01-CP -MOV -100	007287	DO WHAT IS NECESSARY TO Close Valve.	CLOSED VALVE & OPENED BREAKER.
R03	10/08/84	01-CV -P -1A	007288	PUMP STOPPED PUMPING	REMOVED OLD PUMP 1183, INSTALLED NEW PUMP 0413, INSTALLED NEW BELT.
R03	10/08/84	01-MS - -346	004395	VALVE LEAKS BY	OLD VALVE CUT OUT, NEW VALVE AND ONE SECTION OF PIPE WELDED BACK IN.
R03	10/10/84	01-BS -EP -1B	007303	TEST CHAMBER VALVE LEAKS BY	REPLACED TEST VALVE ON PENETRATION
R03	10/10/84	01-BS -EP -17E	007302	TEST CHAMBER VALVE HAS EXCESSIVE leakage.	REPLACED VALVE ON PENETRATION
R03	10/10/84	01-CV - -5	007150	INSTALL BLANK FLANGE UPSTREAM	INSTALLED BLANK FLANGE
R03	10/10/84	01-MS -TCV -106	001806	VALVE LEAKS AIR INTO CONDENSER	OVERHAULED VALVE. MACHINED SEATS, REPLACED STEM & PLUG ASSEMBLY & REPACKED VALVE, STROKED VALVE AFTER OVERHAUL.
R03	10/10/84	01-RC -PCV -1455C	002468	EXCESSIVE OPENING TIME	REMOVE VALVE AND FOUND PLUG AND SEATING DAMAGE. REPLACE PLUG AND SEATING CAGE. CHECK VALVE FOR PERFORMANCE FOUND INST CONTROLLER PROBLEM
R03	10/11/84	01-RC -PCV -1455C	007292	INST TUBING HAS COUPLING LEAK	TIGHTENED FITTING STOPPING AIR LEAK
R03	10/11/84	01-RC -PCV -1456	002469	EXCESSIVE OPENING TIME	DISASSEMBLED VALVE AND CHECKED SEALING SEATING WAS GOOD. CHECKED OPENING TIME AND CLOSING TIME. INST PROBLEM NOT VALVE ITSELF
R03	10/11/84	01-RC -PCV -1456	007042	DIAPHRAGM LEAK	CHECKED DIAPHRAGM AND FOUND THAT BOLTS WERE NOT TIGHT TO STOP AIR LEAKAGE. TIGHTENED BOLTS STOPPING LEAKAGE
R03	10/15/84	01-FH -M -NA	007479	CHANGE OUT AIR DRIVE MOTOR	REMOVED OLD AIR MOTOR-TESTED NEW MOTOR INSTALLED NEW MOTOR
R03	10/16/84	01-SI - -337	007484	CUT TACK WELD ON VALVE STEM TO	MEASUREMENT FOR VALVE GAUGE BLOCK



DEPT	RETURNED TO SERVICE	MARK NUMBER	WO NUMBER	WO TITLE	HISTORY SUMMARY
					3.580 CUT STOPS LOOSE ON MOV SO VALVE COULD BE OPERATED AND FABRICATED GAUGE BLOCKS
R03	10/16/84	01-SI -	-338	007485 CUT TACK WELD ON VALVE STEM TO Make Valve Operable.	MEASUREMENT FOR VALVE GAGE BLOCK 3.660 CUT STOPS LOOSE ON MOV SO VALVE COULD BE OPERATED AND FABRICATED GAUGE BLOCKS
R03	10/16/84	01-SI -	-339	007482 CUT TACK WELD ON VALVE STEM TO Make Valve Operable.	MEASUREMENTS FOR VALVE GAGE BLOCK 3.316 CUT STRAPS LOOSE ON MOV SO VALVE COULD BE OPERATED AND FABRICATED GAUGE BLOCKS
R03	10/16/84	01-SI -	-340	007486 CUT TACK WELD ON VALVE STEM TO Make Valve Operable.	MEASUREMENT FOR VALVE GAGE BLOCK 3.795 CUT STOPS ON MOV SO VALVE COULD BE OPERATED AND FABRICATED GAUGE BLOCKS
R03	10/16/84	01-SI -	-341	007487 CUT TACK WELD ON VALVE STEM TO	MEASUREMENT FOR VALVE GAGE BLOCK 3.380 CUT STOPS LOOSE ON MOV SO VALVE COULD BE OPERATED AND FABRICATED GAUGE BLOCKS
R03	10/17/84	01-CV -	-2	006982 VLV HAS EXCESSIVE SEAT LEAKAGE	DISASSEMBLE VALVE AND INSPECT INTERNALS. LAP SEATS AND GATE AS NECESSARY. HAD 100% BLUEING
R03	10/17/84	01-MS -	-120	003499 VALVE LEAKS THRU	REMOVED VALVE FROM SYSTEM. FOUND GATE WITH DAMAGE. LAPPED GATE. REPACKED ACCORDING TO PROCEDURE. CLEANED BODY USED OLD SEAL RING AS INSTRUCTED. BLUECHECKED. TORQUED
R03	10/17/84	01-MS -	-196	003390 VALVE LEAKS THRU	REMOVED VALVE FROM SYSTEM. NO EVIDENT DAMAGE. BLUE CHECKED FOUND SEATING G SURFACE LOW. MACHINED DISC, REPACKED ACCORDING TO PROCEDURE. REPLACED GASKET WITH NEW GASKET. REINSTALLED
R03	10/18/84	01-MS -	-75	005395 LEAKS BY	REMOVED VALVE FROM SYSTEM DISASSEMBLED VALVE SAND BLASTED PARTS TURNED GLOBE DOWN IN LATHE TO RESURFACE SEATING AREA REPACKED WITH 5 RINGS GARLOCK 98 CLEANED TORQUED 120
R03	10/19/84	01-MS -	-197	003496 VALVE LEAKS THRU	REPLACED HANDWHEEL STOCK # 2082501
R03	10/22/84	01-CH -LCV -1115D	008038	MACHINE BUSHING FOR MOV LCV 11	JOB PULLED FROM MECH MAINT. DONE BY DANIELS AS PER G. MOORE
R03	10/22/84	01-CS -	-105	007326 REMOVE BONNET ON CHECK VLV. AS Per PT-17.4A.	REMOVED BONNET INSTALL GASKET REPLACE BONNET AND TORQUE
R03	10/22/84	01-CS -	-127	007329 REMOVE BONNET ON CHECK VLV. AS Per PT-17.4A	REMOVED BONNET INSTALL GASKET REPLACE BONNET AND TORQUE
R03	10/22/84	01-MS -	-131	008013 REPACK VALVE	REMOVED PACKING REPACKED VALVE WITH

DEPT	RETURNED TO SERVICE	MARK NUMBER	MO NUMBER	MO TITLE	HISTORY SUMMARY
					4 RINGS GARLOCK 98 1/4"
R03	10/22/84	01-HS -	-132	008012 REPACK VALVE	REMOVED PACKING REPLACED PACKING NUTS. REPACKED VALVE WITH GARLOCK 98 6 RINGS 1/4"
R03	10/22/84	01-HS -	-167	001695 PACKING LEAK-ADJUST OR REPACK	REPACK VALVE 1/4" PACKING GARLOCK 98 PACKING 12" USED STOCK # 3625512
R03	10/22/84	01-HS -	-168	008011 REPACK VALVE	REMOVE OLD PACKING INSTALLED NEW PACKING
R03	10/22/84	01-HS -	-170	001694 PACKING LEAK-ADJUST OR REPACK	REPACKED VALVE 1/4" PACKING GARLOCK 98 PACKING 12" USED STOCK #3625512
R03	10/22/84	01-HS -	-97	008003 REPACK VALVE	REPACKED VALVE
R03	10/22/84	01-HS -	-99	001689 PACKING LEAK-ADJUST OR REPACK	REPACKED VALVE GARLOCK 98 1/4" PACKING 12" USED STOCK #3625512
R03	10/22/84	01-HS -MISC-169		001693 PACKING LEAK-ADJUST OR REPACK	REPACKED VALVE GARLOCK 98 1/4" PACKING 12" USED STOCK # 3625512
R03	10/23/84	01-CH -	-1200C	001976 VALVE WILL NOT OPEN	VALVE CYCLED SAT & LIGHT INDICATION WERE SAT, NO NEED TO PERFORM ANY WORK.
R03	10/23/84	01-RC -	-1557B	007031 VALVE WILL NOT OPEN	FOUND COIL TO BE BAD. CHANGED THE SOLENOID VALVE. VALVE CYCLES OK
R03	10/24/84	01-FW -	-130	002925 REPLACE VALVE	REPLACE VALVE WITH NEW STOCK 02006380
R03	10/24/84	01-HS -	-6	004397 VALVE LEAKS BY	REMOVED TRAP CAP, REMOVED PLUG, CLEANED. CAPED SEAT. RE-INSTALLED.
R03	10/24/84	01-HS -	-98	008002 REPACK VALVE	REMOVED 6 RINGS 1/4" PACKING, REPACKED 5 RINGS, 1/4" PACKING
R03	10/24/84	01-SS -TV	-100A	006827 VALVE SEAT HAS EXCESSIVE Teakage.	DISASSEMBLE REPLACE STEM ADAPTOR REASSEMBLE
R03	10/24/84	01-SS -TV	-101A	006825 VALVE HAS EXCESSIVE SEAT leakage.	DISASSEMBLED VALVE, REPLACED STEM ADAPTER, REASSEMBLED.
R03	10/26/84	01-CH -	-302	005964 REPACK	REPACKED VALVE 1/4 6 RINGS 3 1/4" LONG RINGS

DEPT	RETURNED TO SERVICE	MARK NUMBER	WO NUMBER	WO TITLE	HISTORY SUMMARY
R03	10/26/84	01-FW - -42	002333	INSTALL RATCH HANDLE TYPE	INSTALLED RATCHET HANDLE
R03	10/26/84	01-MS -TD -NA	004394	TRAP LEAKS BY	REMOVED ALD INTERNALS AND REPLACED WITH OVERHAUL KIT
R03	10/27/84	01-MS -TD -NA	004393	TRAP LEAKS BY	REMOVED TRAP/DISASSEMBLED/CLEANED/INSPECTED INTERNALS/REPLACED SEAT AND ORFICE,BUCKET,BONNET FLEXITALLI C/FELPRO BOLTS/ REINSTALLED TORQUED TO 395 AS PER PROCEDURE
R03	10/29/84	01-CH -MOV -1275A	007749	BODY TO BONNET LEAK	REMOVED PACKING, INSTALLED NEW PACKING, CHECKED VALVE FOR BIND IN LIMITORQUE.
R03	10/29/84	01-SS -TV -100B	006828	VALVE SEAT HAS EXCESSIVE leakage as PT-16.4.	VALVE DISASSEMBLED REPLACED STEM TIP ADAPTER REASSEMBLE
R03	10/29/84	01-SS -TV -104B	006826	VALVE HAS EXCESSIVE SEAT leakage As Per PT-16.4.	VALVE DISASSEMBLED REPLACED STEM ADAPTER ADAPTER REASSEMBLE
R03	10/30/84	01-CC - -	006388	VALVE NEEDS 3/4" PIPE CAP	INSTALLED 3/4" PIPE CAP
R03	10/30/84	01-CH -HCV -1104	007895	VALVE HAS LEAK IN GASKET FOR Dome.	TIGHTENED DIAPHRAGM, OPS SNOOP CHECKED OPERATOR, FOUND NO FURTHER LEAKAGE.
R03	10/30/84	01-IA -TV -101A	007458	VLV. HAS EXCESSIVE SEAT LEAKAG	ADJUSTED STROKE ON VALVE ALSO TIGHT- ENED PACKING AND FLANGES
R03	10/30/84	01-RC - -160	007330	1-RC-160 HAS EXCESSIVE LEAKAGE	DISASSEMBLE VALVE BLUE DISC REASSEMBLE VALVE
R03	10/30/84	01-VS -E -4C	008561	ZINC PLUG BLOWN. REPLACE PLUG.	REPLACED ZINC
R03	10/06/84	01-MS - -347	004379	VALVE LEAKS BY SEAT	OLD VALVE CUT OUT, NEW VALVE AND SECTION OF PIPE WELDED IN.

**MAINTENANCE OF SAFETY RELATED SYSTEMS DURING  
OUTAGE OR REDUCED POWER PERIODS**

**UNIT NO. 2**

**MECHANICAL MAINTENANCE**

DEPT	RETURNED TO SERVICE	MARK NUMBER	WO NUMBER	WO TITLE	HISTORY SUMMARY
R03	10/30/84	02-CC -	-748	002691 REPLACE WITH 3/4 STAINLESS STE	REPLACED PIPE CAP WITH STAINLESS STEEL 3/4" CAP
R03	10/30/84	02-CS -	-117	004130 INSTALL 3/4" STAINLESS PIPE	INSTALLED 3/4" PIPE CAP
R03	10/30/84	02-CV -	-47	002476 INSTALL 3/4" STAINLESS	INSTALLED 3/4" PIPE CAP
R03	10/30/84	02-FW -	-13	002690 NEEDS 3/4 INCH STAINLESS STEEL	INSTALLED 3/4" PIPE CAP
R03	10/30/84	02-IA -	-960	001981 NEEDS 3/4" STAINLESS STEEL PIP	INSTALLED 3/4" PIPE CAP

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MAINTENANCE OF SAFETY RELATED SYSTEMS DURING  
OUTAGE OR REDUCED POWER PERIODS

UNIT NO. 1

ELECTRICAL MAINTENANCE



DEPT	RETURNED TO SERVICE	MARK NUMBER	WO NUMBER	WO TITLE	HISTORY SUMMARY
					WORKING ABILITY. REPAIRED DOOR LOCK AGAIN.
R04	10/08/84	01-IA -C -4B	006651	BREAKER KEEPS THERMALING OUT	BRIDGED & MEGGERED SAT NOTIFIED OPS OF PROBLEM WITH COMPRESSOR.
R04	10/08/84	01-RC -E -1C	006847	SUPPLY ELECT. POWER TO PLAT- FORM AT SECURITY.	MADE UP DROP CORD FOR 01-RC-E-1C
R04	10/10/84	01-EPH-BKR -15H4	004100	REPLACE PIN AND SPRING	INSTALLED COTTER PIN AND SPRING AS PER PROCEDURE.
R04	10/10/84	01-RH -P -1B	007462	ADD OIL TO MOTOR	ADDED OIL 10-9-84
R04	10/11/84	01-CH -MOV -1267B	007077	PERFORM PMS CH-MOV-E/C1	PERFORMED PMS 10-11-84
R04	10/12/84	01-CH -MOV -1287A	007088	PERFORM PMS CH-MOV-E/C1	PERFORMED PMS 10-11-84
R04	10/12/84	01-CM -MOV -106D	007114	PERFORM PMS CM-MOV-E/C1	PERFORMED PMS CM-MOV-E/C1
R04	10/12/84	01-EPH-BKR -15B7	004065	REPLACE PIN AND SPRING	REPLACED COTTER PIN AND SPRING
R04	10/12/84	01-RC -PCV -1455C	003266	ELECT. DISCONNECT + RECONNECT	DISCONNECTED AND RECONNECTED LIMITS REMOVED NO ACTUAL ELECTRICAL DISCONNECTION WAS DONE 10-10-84
R04	10/12/84	01-RC -PCV -1456	003260	ELECT. DISCONNECT + RECONNECT	ADJUSTED LIMITS TO OPS SATISFACTION VALVE WAS DISCONNECTED AND RECONNEC- TED FOR MECH.
R04	10/16/84	01-CC -P -1A	007842	ADD OIL TO OUTBD MOTOR BEARING	ADDED OIL TO 1-CC-P-1A
R04	10/16/84	01-CC -P -1B	007841	ADD OIL TO INBD MOTOR BEARING	ADDED OIL TO 1-CC-P-1B
R04	10/16/84	01-CH -MOV -1275A	007082	PERFORM PMS CH-MOV-E/C1	SUBMITTED WORK ORDER TO INSPECT VALVE MECHANICS WR#098846 ELEC WR#0988 45 PMS PERFORMED 10-11-84
R04	10/16/84	01-CH -MOV -1275B	007083	PERFORM PMS CH-MOV-E/C1	PERFORMED PMS CH-MOV-E/C1

DEPT	RETURNED TO SERVICE	MARK NUMBER	MO NUMBER	MO TITLE	STORY SUMMARY
R04	10/16/84	01-CV -SDV -150A	007321	SOLENOID NEEDS TO BE MOUNTED	MOUNTED 1-CV-SDV-150A
R04	10/16/84	01-FW -P -4B	007554	REPAIR OR REPLACE STAB ON BACK	REPLACED STAB ON BACK OF BREAKER 1-FW-P-4B. REMOVED FROM SPARE CAB.
R04	10/17/84	01-FH -MISC-#2	007843	WITH VALVE OPEN THERE IS NO OPEN LIGHT INDICATION.	REPAIRED PROXIMITY SWITCH ON TRANSFER SYSTEM 10-13-84
R04	10/17/84	01-RS -MISC-NA	003777	ROTATION LITE ON WITH PUMP OFF	ADJUST VIBRASWITCH ON 1-RS-P-1A IN ACCORDANCE WITH TECH. MANUAL.
R04	10/18/84	01-CH -HCV -1200B	006022	INSPECT WIRING AND SWITCHES	BORIC ACID SETTLING ON TOP OF COIL COVER, SCRAPED OFF BORIC ACID FROM COVER WIRING.
R04	10/18/84	01-CH -HCV -1200C	006021	INSPECT WIRING AND SWITCHES	INSPECT WIRING AND SWITCHES WIRES LOOK OK AND SWITCHES LOOK OK
R04	10/18/84	01-EP -EP -ALL	006027	INSPECT ALL ELECT PENETRATIONS	INSPECTED ELECTRICAL PENETRATIONS & FOUND NO VISIBLE SIGNS OF ANY DAMAGE.
R04	10/22/84	01-EPH-BKR -15C7	004113	REPLACE PIN AND SPRING	REPLACED PIN AND SPRING AS DESCRIBED BY TEMP-C-EPH-129 BREAKER TESTED SATS.10-20-84. COTTER PIN 4604937 SPRING 4604936
R04	10/23/84	01-EPH-BKR -15H1	004098	REPLACE PIN AND SPRING	COMPLETED COTTER PIN & SPRING WORK AS DESCRIBED IN TEMP-C-EPH-129 BREAKER TESTED SATISFACTORY.
R04	10/23/84	01-NS -MOV -100A	007140	PERFORM PMS NS-MOV-E/R1	COMPLETED PMS AS PER NS-MOV-E/R1 & TEMP-C-MOV-129. VALVE TESTED SAT.
R04	10/23/84	01-NS -MOV -100B	007141	PERFORM PMS NS-MOV-E/R1	COMPLETED PROCEDURES NS-MOV-129 VALVE TESTED SATISFACTORY 10/23/84
R04	10/23/84	01-SI -MOV -1890C	007263	DISCONNECT/RECONNECT MOV FOR MEC. MAINT.	MOV-1890C DISCONNECTED CABLES BAGGED AND TAPED 10/10/84.REMOUNTED LEADS,NOTE MOTOR NEEDS ONE MORE 1/2 " BOLT 1 1/4" LONG 10/15/84 MOTOR RAN SAT LIMITS SAT 10/17/84
R04	10/23/84	01-US -P -1B	008121	AT MCC 1J1-161 RETAP THE THREADED HOLE OF THE THERMAL BOARD.	REPLACED TERMINAL BOARD ON BREAKER 1-US-P-1B WITH 1H1-2(N)-34 SPARE BREAKER.
R04	10/24/84	01-NS -MOV -101A	007142	PERFORM PMS NS-MOV-E/R1	PERFORMED PMS
R04	10/24/84	01-NS -MOV -101B	007143	PERFORM PMS NS-MOV-E/R1	PERFORMED PMS

DEPT	RETURNED TO SERVICE	MARK NUMBER	WO NUMBER	WO TITLE	HISTORY SUMMARY
R04	10/24/84	01-SI -MOV -1885C	007228	PERFORM PHS SI-MOV-E/R1	BRIDGED & MEGGERED AND PERFORMED LOAD CHECK CYCLE MOV SAT.
R04	10/24/84	01-SI -MOV -1890C	007234	PERFORM PHS SI-MOV-E/R1	BRIDGED & MEGGERED AND PERFORMED LOAD CHECK CYCLE MOV SAT.
R04	10/24/84	01-US -E -4A	008276	BREAKER THERMALS	FOUND 'B' PHASE LUGS LOOSE, TIGHTENED UP ALL LUGS ON BREAKER
R04	10/26/84	01-CS -P -1A	008144	INVESTIGATE LIFTED LEADS FROM CABLE 1H10PL-137	REPLACE 1H10PL137 LEADS FOR INTERLOCK WITH MOTOR. LEFT 1H10PL136 LIFTED SPARE HEAD NOT NEEDED FOR HEATER CKT. CHANGED DRAWINGS TO SHOW SPARE WIRE
R04	10/26/84	01-RS -P -1A	008146	BRIDGE/MEGGER HEATER CIRCUIT & REPAIR AS NECESSARY.	BRIDGED & MEGGERED GOOD
R04	10/29/84	01-CH -HTT -M1	008554	CKT TRIPS FREQUENTLY. INVESTIGATE AND CORRECTED.	RESISTANCE READING (SQC 603 FLORE) 18.8 CIRCUIT RESISTANCE VALVE 19.8 RESET BREAKER - NO PROBLEM
R04	10/29/84	01-CS -MOV -101A	007092	PERFORM PHS CS-MOV-E/R1	COMPLETED PHS ALL BUT AMP CHECKS. COMPLETED AMP CK AND PROCEDURE FOR CS-MOV-101A, TESTED SAT.
R04	10/29/84	01-CS -MOV -101B	007093	PERFORM PHS CS-MOV-E/R1	COMPLETED PHS ALL BUT AMP CHECKS. COMPLETED AMP CHECK & PROCEDURE FOR CS-MOV-101B TESTED SAT
R04	10/29/84	01-CS -MOV -101C	007094	PERFORM PHS CS-MOV-E/R1	COMPLETED PHS ALL BUT AMP CHECKS. COMPLETED AMP CK AND PROCEDURE FOR CS-MOV-101C, TESTED SAT.
R04	10/29/84	01-CS -MOV -101D	007095	PERFORM PHS CS-MOV-E/R1	COMPLETED PHS ALL BUT AMP CHECKS. COMPLETED AMP CK AND PROCEDURE FOR CS-MOV-101D TESTED SAT
R04	10/30/84	01-RC -MOV -1535	007158	PERFORM PHS RC-MOV-E/R1	PERFORMED PHS RC-MOV-E/R1 AND TEMP-C-MOV-129
R04	10/30/84	01-RC -MOV -1536	007159	PERFORM PHS RC-MOV-E/R1	PERFORMED PH-RC-C-MOV-E/R1 AND TEMP-C-MOV-129
R04	10/30/84	01-US -P -1B	008487	ELECTRICALLY DISCONNECT/RECONNECT SW PUMP MOTOR.	NEEDS EITHER SCREW IN COVER. DISCONNECTED LEADS, BAGGED AND TAPED MOTOR LEADS 10/26/84 RECONNECTED LEADS BRIDGE AND MEGGER
R04	10/30/84	01-US -S -1B	008481	DISCONNECT/RECONNECT STRAINER	DISCONNECTED 10-26-84 C2 RECONNECTED MOTOR LEADS BRIDGE AND MEGGERED THE MOTOR LEADS. TEST RAN MOTOR SAT 10/30/84

DEPT	RETURNED TO SERVICE	MARK NUMBER	WO NUMBER	WO TITLE	HISTORY SUMMARY
R04	10/01/84	01-CH -	-385	006504 REMOVE AND REINSTALL HEAT TRACING.	REMOVED CLAMPS AND HEAT TRACE CIRCUIT IT AWAY FROM VALVE FOR MECHS 9-29-84 4 REPLACED HEAT TRACE OHMS (HOT LEG TO NEW) 333 200MR
R04	10/06/84	01-RI -RMS	-160	005931 FAILED LIGHT WILL NOT Illuminate.	DISCOVERED LIGHT SOCKET IS INTRAGAL PART OF INSTRUMENT, 1-RI-RMS-160 IN SERVICE, OPS DID NOT WANT COVERS REMOVED. WO SENT TO INST SHOP, REPLACED ALARM CARD, PERFORMED CAL.
R04	10/07/84	01-CW -MOV	-100D	007109 PERFORM PMS CW-MOV-E/C1	PMS PERFORMED
R04	10/08/84	01-CW -MOV	-100A	007106 PERFORM PMS CW-MOV-E/C1	PMS PERFORMED 10/07/84
R04	10/08/84	01-CW -MOV	-100B	007107 PERFORM PMS CW-MOV-E/C1	PMS PERFORMED 10-7-84
R04	10/08/84	01-CW -MOV	-100C	007108 PERFORM PMS CW-MOV-E/C1	PMS PERFORMED 10/17/84
R04	10/08/84	01-CW -MOV	-106B	007111 PERFORM PMS CW-MOV-E/C1	PERFORM PMS ON 1-CW-MOV-106B
R04	10/08/84	01-EPH-BKR	-15C3	004110 REPLACE PIN AND SPRING	REPLACED LITTER PIN AND SPRING AS PER PROCEDURE.
R04	10/08/84	01-FP -DR	-21	007019 REPAIR DOOR LATCH. DOOR DOES NOT SHUT.	CLEAN DOOR LOCK AND TEST DOOR FOR WORKING ABILITY. REPAIR DOOR LOCK AGAIN.

MAINTENANCE OF SAFETY RELATED SYSTEMS DURING  
OUTAGE OR REDUCED POWER PERIODS

UNIT NO. 2

ELECTRICAL MAINTENANCE

VEPCO SAFETY RELATED DURING REDUCED POWER SORTED BY UNIT AND DEPARTMENT  
 FROM 10/29/84 THRU 10/31/84  
 UNIT 02 SURRY

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DEPT	RETURNED TO SERVICE	MARK NUMBER	WO NUMBER	WO TITLE	HISTORY SUMMARY
R04	10/29/84	02-CH -HTT -MI	008553	CKT BKR TRIPS REPEATEDLY.	RESISTANCE READING (SQC 603 FLORE) .221 - CIRCUIT RESISTANCE VALVE .226 - RESET BREAKER, NO PROBLEM
R04	10/30/84	02-EPL-REL -AFDYB	008653	REPLACE RELAY AFD-YB	REPLACED DEFECTIVE BFD RELAY AFP-Y1 3 COMPLETED ENP-C-RT-24 PROCEDURE
R04	10/30/84	02-HS -SOV -202A	008648	SOLENOIDWILLNOT OPEN	PROBLEM WAS WITH RELAY AFP-YB. SOV IS GOOD. WORK PERFORMED ON RELAY ON WORK ORDER 3802008653.



MAINTENANCE OF SAFETY RELATED SYSTEMS DURING  
OUTAGE OR REDUCED POWER PERIODS

UNIT NO. 1

INSTRUMENT MAINTENANCE

VEPCO : SAFETY RELATED DURING REDUCED POWER SORTED BY UNIT AND DEPARTMENT  
FROM 10/01/84 THRU 10/31/84  
UNIT 01 SURRY

DEPT	RETURNED TO SERVICE	MARK NUMBER	WD NUMBER	WD TITLE	HISTORY SUMMARY
T22	10/04/84	01-VG -RM -131-2	007113	EQUIP. HAS FAIL LIGHT ON	MOMENTARY FAILURE DETECTED ON CHANNEL III DETECTOR. CLEARED FAILURE, CHECKED HV TO DETECTOR & EVERYTHING LOOKS GOOD.
T22	10/05/84	01-MS -PI -464	005642	PERFORM REFUELING LOOP	PERFORMED TRANSMITTER CALIBRATION ON 9/30/84. COMPLETED LOOP CALIBRATION ON 10/2/84. CHECKED SAT. PT SENT TO ENGINEERING.
T22	10/06/84	01-CC -PI -233	004856	GAUGE GLASS BROKEN, GAUGE LEAKING AT FITTING CONNECTION.	REPLACED GAUGE WITH NEW CALIBRATED GAUGE.
T22	10/06/84	01-CC -PS -101A	004860	INSTRUMENT TUBING TO PS LEAKING	REPLACED ALL LEAKING FITTINGS WITH NEW ONES. REPLACED PRESS. GAUGE WITH NEW CALIBRATED ONE.
T22	10/06/84	01-CC -RM -106	006276	SETPOINT GREATER THAN ALARM	ADJUSTED SETPOINTS TO PROPER VALUE
T22	10/06/84	01-FW -FI -477	005792	PERFORM REFUELING LOOP	PERFORMED REFUELING CALIBRATION ADJUSTED FH-1-477A FT-1-477
T22	10/06/84	01-FW -FI -487	005794	PERFORM REFUELING LOOP	PERFORMED REFUELING CALIBRATION. ADJUSTED FH-1-487B, ADJUSTED FC-1-488C, ADJUSTED FH-1-487A PT SENT TO ENGINEERING
T22	10/06/84	01-FW -FI -497	005796	PERFORM REFUELING LOOP	PERFORMED REFUELING CALIBRATION, ADJUSTED FT-1-497, FC 1-498C, FH-1-497A WAS REPLACED AND CALIBRATED.
T22	10/06/84	01-FW -FIT -476	005791	PERFORM REFUELING LOOP	CALIBRATED TRANSMITTER 9/29 REPLACED THE NUT & FERRELS ON THE SENSING LINES. COMPLETED REFUELING CALIBRATION. PT SENT TO ENGINEERING.
T22	10/06/84	01-MS -PI -468	005640	PERFORM REFUELING LOOP	PERFORMED TRANSMITTER CAL ON 9/30 COMPLETED REFUELING CALIBRATION. SAT. PT SENT TO ENGINEERING.
T22	10/06/84	01-NI -MISC-31	005763	PERFORM REFUELING CALIBRATION	PERFORM CAL 047 ON THE SOURCE RANGE DRAMER ADN CAL-NI-046 FOR DISCRIMINATOR & HIGH VOLTAGE ADJUSTMENT.
T22	10/06/84	01-RC -LI -460	006194	GREATER THAN 3X FROM CH I AS PER LOG.	ADJUSTED PACKING LI-459 PER PT 2.3A 459 PT SENT TO ENGINEERING

DEPT	RETURNED TO SERVICE	MARK NUMBER	MO NUMBER	MO TITLE	HISTORY SUMMARY
T22	10/06/84	01-RC -SCH -100A	006243	PERFORM REFUELING LOOP CALIBRATION PER PT-2.27A.	PERFORMED REFUELING CAL, REPLACED CORE SUBCOOLING INDICATOR-IT WOULD NOT MEET SPEC AT TOP END. AFTER INDICATOR WAS REPLACED MONITOR CHECKED SAT.
T22	10/06/84	01-RC -SCH -100B	006243	PERFORM REFUELING LOOP CALIBRATION PER PT-2.27A.	PERFORMED PT 2.27A CHECKED SAT PT SENT TO ENGINEERING
T22	10/06/84	01-SW -RM -114	006273	DOES NOT INDICATE CAL WHEN PLACED IN CAL POSITION.	REPLACED LOG RATE CARD & CALIBRATED SAME AS PER CAL 044.
T22	10/06/84	01-SW -RM -115	006356	REPLACE HI ALARM SWITCH.	REPLACED ALARM PUSH BUTTON SWITCH
T22	10/08/84	01-MS -PI -466	005641	PERFORM REFUELING LOOP	PERFORMED TRANSMITTER CAL ON 9/30 COMPLETED REFUELING CALIBRATION. ADJUSTED PM-1-466 PT SENT TO ENGINEERING
T22	10/08/84	01-MS -PI -485	005647	PERFORM REFUELING LOOP	COMPLETED REFUELING CALIBRATION. TRANSMITTER SPAN ADJUSTED. PT SENT TO ENGINEERING.
T22	10/08/84	01-MS -PI -486	005644	PERFORM REFUELING LOOP	COMPLETED REFUELING CALIBRATION PT SENT TO ENGINEERING
T22	10/08/84	01-MS -PI -495	005646	PERFORM REFUELING LOOP	COMPLETED REFUELING CALIBRATION PT SENT TO ENGINEERING
T22	10/08/84	01-MS -PI -496	005643	PERFORM REFUELING LOOP	COMPLETED REFUELING CALIBRATION PT SENT TO ENGINEERING
T22	10/09/84	01-CH -TK -1B	007338	BROKEN STUD ON THERMOCOUPLE	DRILLED AND TAPPED FLANGE WHERE 2 STUDS WERE BROKEN OFF, REPLACED ALL STUDS
T22	10/10/84	01-CH -FT -1122	004839	TRANSMITTER TUBING SUPPORTS	INSTALLED NEW PLASTIC SUPPORT BLOCK, SPACER TUBE, BOLT, NUT AND WASHERS (SHOP SPARES). TUBING IS PROPERLY RECONNECTED
T22	10/10/84	01-CH -LI -106	005731	PERFORM REFUELING LOOP	PERFORMED PT-2.15 OPERATION CHECKED SAT COMPLETED REFUELING CALIBRATION TRANSMITTER READING HIGH ADJUSTED SPAN PT SENT TO ENGINEERING
T22	10/10/84	01-CH -LI -108	005732	PERFORM REFUELING LOOP	PERFORMED PT-2.15 OPERATION CHECKED SAT. PT SENT TO ENGINEERING
T22	10/10/84	01-MS -LI -404	005650	PERFORM REFUELING LOOP	PERFORMED PT-2.6A FOR REFUELING OPERATION CHECKED SAT PT SENT TO ENGINEERING
T22	10/10/84	01-MS -PI -474	005651	PERFORM REFUELING LOOP	PERFORMED PT2.6A OPERATION CHECKED SAT.
T22	10/10/84	01-MS -PI -494	005649	PERFORM REFUELING LOOP	PERFORM PT 2.6A OPERATION CHECKED SAT. COMPLETED REFUELING CALIBRATION
T22	10/10/84	01-RI -RMS -131/2	005932	EQUIPMENT FAILURE LIGHT.	MOMENTARY LOSS OF POWER TO MONITOR DURING THE NIGHT. RESET ALL PARAMETERS AND RETURNED TO SERVICE.
T22	10/12/84	01-US -CLS -100B	005667	ALARM LOCKED IN FOR NO REASON	TROUBLE SHOT FOUND SENSOR APPARENTLY MALFUNCTIONED PLACED RECORDER TO MONITOR SENSOR VOLTAGE FOR 2 DAYS FOUND VOLTAGE ERRATIC CAUSING SPIKE

DEPT	RETURNED TO SERVICE	MARK NUMBER	WO NUMBER	WO TITLE	HISTORY SUMMARY
					S.NO PARTS IN STOCK SUBMITTED PO
T22	10/16/84	01-SI - -336	007483	CUT TACK WELD ON VALVE STEM TO MAKE OPERABLE.	MEASUREMENT FOR VALVE GAGE BLOCK 3.610 CUT STOPS LOOSE ON MON SO VALVE COULD BE OPERATED AND FABRICATED GAUGE BLOCKS
T22	10/17/84	01-NI -DETR-32B	007531	CHANNEL SPIKING-UP TO HIGH 0	FOUND NO PROBLEM WITH SOURCE RANGE DETECTOR.SPIKING BEING CAUSED BY CONTRACTORS DRILLING IN THE INCORE SUMP ROOM BY THE N-32 DETECTOR, AFTER MAINT NO MORE SPIKES OCCURRED
T22	10/17/84	01-RI -RMS -160	007698	FILTER PAPER CONTACT SWITCH	REPAIRED BROKEN FILTER FAULT SWITCH REPLACED FILTER PAPER
T22	10/19/84	01-RM -DET -108	008077	MONITOR ALARMS HIGH PRIOR TO SETPOINT.	PERFORMED ALARM CARD CALIBRATION PER CAL 044
T22	10/20/84	01-RC -PI -45B	005858	PERFORM REFUELING LOOP	ADJUSTED TRANSMITTER BIAS POINT. COMPLETED REFUELING PT 2.26A CHECKED SAT. PT SENT TO ENGINEERING.
T22	10/22/84	01-CC -RI -105	004543	HIGH SETPOINT NEEDS TO BE LOWERED.	PUT NEW SETPOINTS IN MONITOR
T22	10/22/84	01-CC -RI -106	004542	HIGH SETPOINT NEEDS TO BE LOWERED.	PUT NEW SETPOINTS IN MONITOR
T22	10/22/84	01-CC -RM -106	008059	ALARMS COME IN BEFORE SETPOINT INVESTIGATES.	PERFORMED ALARM CARD CALIBRATION IN ACCORDANCE WITH CALIBRATION PROCEDURE. VERIFIED PROPER OPERATION OF ALARMS AT PROPER SETPOINTS
T22	10/22/84	01-NI -DETR-43	007730	REPLACE TWO BOLTS ON BOTTOM OF DETECTOR MOUNTING PLATE.	TEMPORARILY INSTALLED 2 NON CAT I BOLTS TO SUPPORT THE BOTTOM PLATE ON DETECTOR N-43. CAT I BOLTS NOT AVAILABLE AT THIS TIME.
T22	10/22/84	01-RC -FI -414	005692	PERFORM REFUELING LOOP	PERFORMED REFUELING CALIBRATION, CHECKED SAT PT SENT TO ENGINEERING
T22	10/22/84	01-RC -FI -415	005693	PERFORM REFUELING LOOP	PERFORMED REFUELING CAL. ADJUSTED TRANSMITTER, CHECKS SAT. STATION DEVIATION SUBMITTED.
T22	10/22/84	01-RC -FI -416	005697	PERFORM REFUELING LOOP	PERFORMED REFUELING CALIBRATION
T22	10/22/84	01-RC -FI -425	005694	PERFORM REFUELING LOOP	PERFORMED REFUELING CALIBRATION, ADJUSTED FT-425, CHECKED SAT. PT SENT TO ENGINEERING
T22	10/22/84	01-RC -FI -426	005698	PERFORM REFUELING LOOP	PERFORMED REFUELING CAL., ADJUSTED COMPARTOR FC-126 AND FM-426 CHECKED SAT PT SENT TO ENGINEERING
T22	10/22/84	01-RC -FI -434	005689	PERFORM REFUELING LOOP	PERFORMED REFUELING CALIBRATION, CHECKED SAT PT SENT TO ENGINEERING
T22	10/22/84	01-RC -LI -474	005660	PERFORM REFUELING LOOP	ADJUSTED TRIPS ON LC-474 OUTPUTS 1 AND 2 COMPLETED REFUELING CALIBRATION REPLACED O RINGS PT SENT TO ENGINEERING
T22	10/22/84	01-RC -LI -475	005657	PERFORM REFUELING LOOP	ADJUSTED TRANSMITTER ZERO & SPAN, ADJUSTED OUTPUTS 1 & 2 OF LC-475. REPLACED O-RINGS AND COMPLETED REFUELING CALIBRATION. PT SENT TO

DEPT	RETURNED TO SERVICE	MARK NUMBER	WO NUMBER	WO TITLE	HISTORY SUMMARY
T22	10/22/84	01-RC -LI -476	005654	PERFORM REFUELING LOOP	ENGINEERING. ADJUSTED TRANSMITTER ZERO & SPAN LC-476A AND LC 476, ADJUSTED SET-POINTS AND BAND. COMPLETED PT 2.5A (L-1-476), CHECKED SAT.
T22	10/22/84	01-RC -LI -484	005659	PERFORM REFUELING LOOP	ADJUSTED LC-484B SETPOINT, COMPLETED REFUELING CALIBRATION. REPLACED O-RINGS. PT SENT TO ENGINEERING
T22	10/22/84	01-RC -LI -485	005656	PERFORM REFUELING LOOP	ADJUSTED TRANSMITTER ZERO, ADJUSTED RESET ON LC-485A, COMPLETED REFUELING CALIBRATION, REPLACED O-RINGS. PT SENT TO ENGINEERING
T22	10/22/84	01-RC -LI -486	005653	PERFORM REFUELING LOOP	TRANSMITTER READING HIGH. ADJUSTED TRANSMITTER ZERO, COMPLETED REFUELING CALIBRATION. REPLACE O-RINGS. PT SENT TO ENGINEERING
T22	10/22/84	01-RC -LI -494	005658	PERFORM REFUELING LOOP	CALIBRATED TRANSMITTER TO BRING ACTUAL OUTPUT CLOSER TO DESIRED; TRANSMITTER OUTPUT WAS NOT OUT OF TOLERANCE. REPLACED O-RINGS, COMPLETED REFUELING CALIBRATION.
T22	10/22/84	01-RC -LI -496	005652	PERFORM REFUELING LOOP	TRANSMITTER SPAN LOW. ADJUSTED SPAN COMPLETED REFUELING CALIBRATION. REPLACED O-RINGS PT SENT TO ENGINEERING.
T22	10/22/84	01-RC -PI -402	005862	PERFORM REFUELING LOOP	PERFORMED REFUELING CALIBRATION
T22	10/22/84	01-RC -PI -402/1	005861	PERFORM REFUELING LOOP	PERFORMED CAL-271
T22	10/22/84	01-RC -PI -403	005860	PERFORM REFUELING LOOP	ADJUSTED TRANSMITTER COMPLETED REFUELING PT CHECKED SAT PT SENT TO ENGINEERING
T22	10/22/84	01-RC -PI -457	005661	PERFORM REFUELING LOOP	ADJUSTED OUTPUT OF ISOLATOR PH-1-457 TO BRING ACTUAL OUTPUT CLOSER TO THE DESIRED VALUE. ADJUSTED THE DEAD BAND ON COMPARATORS PC-1-457 A B C D TO BRING RESET POINTS IN TOLERANCE
T22	10/22/84	01-RM -DET -159	007856	MONITOR SPIKES HIGH	REPLACED ALARM CARD AND CALIBRATED CARD IAW CAL-044
T22	10/22/84	01-RM -RCDR-RR150	007252	RE-INK	REPLACED INK PADS
T22	10/22/84	01-RM -RM -159	007357	FLOW IS < 5 SCFH	FOUND HP'S IN LINE FILTER CLOGGED REPLACED FILTER AND NEW CORRECTED FLOW IS 10 SCFH
T22	10/22/84	01-RP -ROD -B/6	002461	INVESTIGATE ROD B-6.	ASSISTED WESTINGHOUSE WITH ROD TESTING.
T22	10/23/84	01-RM -RMS -160	007832	REMOVE DETECTOR TO REPLACE PIG	REMOVED DETECTOR FROM PIG FOR DECON OF SAME PIG. REPLACED DETECTOR AFTER PIG IS DECONED AND CALIBRATED SAME
T22	10/24/84	01-RC -FI -424	005691	PERFORM REFUELING LOOP	PERFORMED REFUELING CALIBRATION. Adjusted FC-424 and FM-424 checked dat. Also adjusted FI-424 to tolerance, checked good. Station Deviation Submitted, PT sent to Engr.



DEPT	RETURNED TO SERVICE	MARK NUMBER	MO NUMBER	MO TITLE	HISTORY SUMMARY
T22	10/24/84	01-SW -FI -106D	006437	DOES NOT INDICATE FLOW	DISCONNECTED SENSING LINES AND CHECKED FOR BLOCKAGE, NO BLOCKAGE FOUND.
T22	10/24/84	01-SW -FT -106A	006435	DOES NOT INDICATE FLOW	DISCONNECTED SENSING LINES AND CHECKED FOR BLOCKAGE, NO BLOCKAGE FOUND
T22	10/24/84	01-SW -FT -106C	006436	DOES NOT INDICATE FLOW	DISCONNECTED SENSING LINES AND CHECKED FOR BLOCKAGE, NO BLOCKAGE FOUND.
T22	10/26/84	01-RC -FC -480A	006235	PERFORM REFUELING CALIBRATION	PERFORMED REFUELING CALIBRATION, CHECKED SAT.
T22	10/26/84	01-RC -FC -480B	006234	PERFORM REFUELING CALIBRATION	PERFORMED REFUELING CALIBRAITON, NO ADJUSTMENTS MADE.
T22	10/26/84	01-RC -FC -481B	006232	PERFORM REFUELING CALIBRATION	PERFORMED REFUELING CALIBRATION, NO ADJUSTMENTS MADE.
T22	10/26/84	01-RC -FC -482A	006231	PERFORM REFUELING CALIBRATION	PERFORMED REFUELING CAL. NO ADJUSTMENTS MADE.
T22	10/26/84	01-RC -FC -482B	006230	PERFORM REFUELING CALIBRATION	PERFORMED REFUELING CAL. NO ADJUSTMENTS MADE.
T22	10/26/84	01-RC -FC -490	006229	PERFORM REFUELING CALIBRATION	REFUELING CALIBRATION, CHECK LOOP OPERATION SAT.
T22	10/26/84	01-RC -FC -491	006228	PERFORM REFUELING CALIBRATION	REFUELING CALIBRATION, CHECKED LOOP OPERATION SAT.
T22	10/26/84	01-RC -FC -492	006227	PERFORM REFUELING CALIBRATION	REFUELING CALIBRATION, CHECKED LOOP OPERATION SAT.
T22	10/26/84	01-RC -LI -495	005655	PERFORM REFUELING LOOP	REPLACED O-RINGS, COMPLETED REFUELING CALIBRATION, PT SENT TO ENGINEERING
T22	10/29/84	01-RC -FI -435	005696	PERFORM REFUELING LOOP	PERFORMED REFUELING CALIBRATION, ADJUSTED FI-1-435 & FC-1-435, ALSO ADJUSTED FT-1-435 AND REPLACED O-RINGS. PT SENT TO ENGINEERING.
T22	10/29/84	01-RC -MISC-F436	006797	PERFORM REFUELING CALIBRATION	PERFORMED REFUELING CALIBRATION, ADJUSTED FT-1-436 AND REPLACED THE O-RINGS PT SENT TO ENGINEERING
T22	10/31/84	01-LW -FCV -160	007293	INTERMEDIATE LIGHTS IN CONTROL	ADJUSTED LIGHT SWITCHES AS PER EMP-C-SOV-38. OPERATIONS CYCLED VALVE & WAS SATISFIED.



MAINTENANCE OF SAFETY RELATED SYSTEMS DURING  
OUTAGE OR REDUCED POWER PERIODS

UNIT NO. 2

INSTRUMENT MAINTENANCE

VEPCO

SAFETY RELATED DURING REDUCED POWER SORTED BY UNIT AND DEPARTMENT  
 FROM 10/27/84 THRU 10/31/84  
 UNIT 02 SURRY

PROGRAM WPT09860 11/05/84 16:02 PAGE

DEPT	RETURNED TO SERVICE	MARK NUMBER	WO NUMBER	WO TITLE	HISTORY SUMMARY
T22	10/29/84	02-HS -FT -464	008224	REPLACE DEFECTIVE TRANSMITTER	REPLACED TRANSMITTER & PERFORMED CALIBRATION, CHECKED SAT. TRANSMIT- TER REPLACED DUE TO ROSENDONT RECOMMENDATION, NOT A FAILURE, PT SENT TO ENGINEERING
T22	10/29/84	02-RP -MISC-NK	008173	ISOLATOR FM-2-495B ON CH 4	REPLACED FAILED ISOLATOR WITH ANOTHER ONE, CHECKED SAT. PT SENT TO ENGINEERING.
T22	10/30/84	02-GW -ALM -NA	008250	INVESTIGATE AND DETERMINE	VOID! DUPLICATE OF WORK REQUEST #069042

END OF REPORT

VIRGINIA ELECTRIC AND POWER COMPANY  
RICHMOND, VIRGINIA 23261

W. L. STEWART  
VICE PRESIDENT  
NUCLEAR OPERATIONS

November 15, 1984

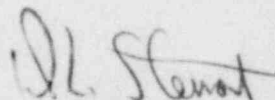
Mr. Maurice R. Beebe  
Office of Resource Management  
U. S. Nuclear Regulatory Commission  
Washington, D. C. 20555

Serial No. 672  
NO/JDH/lms  
Docket Nos. 50-280  
50-281  
License Nos. DPR-32  
DPR-37

VIRGINIA ELECTRIC AND POWER COMPANY  
SURRY POWER STATION UNIT NOS. 1 AND 2  
MONTHLY OPERATING REPORT

Enclosed is the Monthly Operating Report for Surry Power Station Unit Nos. 1 and 2 for the month of October, 1984.

Very truly yours,

  
W. L. Stewart

Enclosure (3 copies)

cc: Mr. R. C. DeYoung, Director (12 copies)  
Office of Inspection and Enforcement

Mr. James P. O'Reilly (1 copy)  
Regional Administrator  
Region II

Mr. D. J. Burke  
NRC Resident Inspector  
Surry Power Station

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