

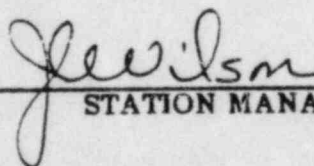
VIRGINIA ELECTRIC AND POWER COMPANY

SURRY POWER STATION

MONTHLY OPERATING REPORT

REPORT NO. 84-05

APPROVED BY:



STATION MANAGER

8407020392 840531  
PDR ADOCK 05000280  
R PDR

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# OPERATING DATA REPORT

DOCKET NO. 50-280  
DATE 06 JUN 84  
COMPLETED BY Vivian Jones  
TELEPHONE 804-357-3184

## OPERATING STATUS

1. UNIT NAME	SURRY UNIT 1
2. REPORTING PERIOD	50184 TO 53184
3. LICENSED THERMAL POWER (MWT)	2441  -----
4. NAMEPLATE RATING (GROSS MWE)	847.5  NOTES
5. DESIGN ELECTRICAL RATING (NET MWE)	788
6. MAXIMUM DEPENDABLE CAPACITY (GROSS MWE)	811
7. MAXIMUM DEPENDABLE CAPACITY (NET MWE)	775
8. IF CHANGES OCCUR IN CAPACITY RATINGS (ITEMS 3 THROUGH 7) SINCE LAST REPORT, GIVE REASONS	N/A
9. POWER LEVEL TO WHICH RESTRICTED, IF ANY (NET MWE)	N/A
10. REASONS FOR RESTRICTIONS, IF ANY	N/A

## THIS MONTH YR-TO-DATE CUMULATIVE

11. HOURS IN REPORTING PERIOD	744.0	3647.0	100295.0
12. NUMBER OF HOURS REACTOR WAS CRITICAL	602.7	2758.9	61851.8
13. REACTOR RESERVE SHUTDOWN HOURS	0.0	9.3	3774.5
14. HOURS GENERATOR ON-LINE	602.6	2711.4	60578.6
15. UNIT RESERVE SHUTDOWN HOURS	0.0	0.0	3736.2
16. GROSS THERMAL ENERGY GENERATED (MWH)	1455181.1	6422658.7	141348963.0
17. GROSS ELECTRICAL ENERGY GENERATED (MWH)	474055.0	2078725.0	45398568.0
18. NET ELECTRICAL ENERGY GENERATED (MWH)	450373.0	1974547.0	43052283.0
19. UNIT SERVICE FACTOR	81.0 %	74.3 %	60.4 %
20. UNIT AVAILABILITY FACTOR	81.0 %	74.3 %	64.1 %
21. UNIT CAPACITY FACTOR (USING MDC NET)	78.1 %	69.86 %	55.39 %
22. UNIT CAPACITY FACTOR (USING DER NET)	76.8 %	68.71 %	54.48 %
23. UNIT FORCED OUTAGE RATE	0.0	1.5 %	9.0 %
24. SHUTDOWNS SCHEDULED OVER NEXT 6 MONTHS (TYPE, DATE, AND DURATION OF EACH)			

25. IF SHUT DOWN AT END OF REPORT PERIOD.	06-05-84
ESTIMATE DATE OF STARTUP	
26. UNITS IN TEST STATUS	FORECAST ACHIEVED
(PRIOR TO COMMERCIAL OPERATION)	

INITIAL CRITICALITY  
INITIAL ELECTRICITY  
COMMERCIAL OPERATION

# OPERATING DATA REPORT

DOCKET NO. 50-281  
 DATE 06 JUN 84  
 COMPLETED BY Vivian Jones  
 TELEPHONE 804-357-3184

## OPERATING STATUS

1. UNIT NAME	SURRY UNIT 2
2. REPORTING PERIOD	50184T053184
3. LICENSED THERMAL POWER (MWT)	2441  -----
4. NAMEPLATE RATING (GROSS MWE)	847.5  NOTES
5. DESIGN ELECTRICAL RATING (NET MWE)	788
6. MAXIMUM DEPENDABLE CAPACITY (GROSS MWE)	811
7. MAXIMUM DEPENDABLE CAPACITY (NET MWE)	775
8. IF CHANGES OCCUR IN CAPACITY RATINGS (ITEMS 3 THROUGH 7) SINCE LAST REPORT, GIVE REASONS	N/A

9. POWER LEVEL TO WHICH RESTRICTED, IF ANY N/A  
 (NET MWE)  
 10. REASONS FOR RESTRICTIONS, IF ANY N/A

## THIS MONTH YR-TO-DATE CUMULATIVE

11. HOURS IN REPORTING PERIOD	744.0	3647.0	97175.0
12. NUMBER OF HOURS REACTOR WAS CRITICAL	744.0	2907.4	61478.3
13. REACTOR RESERVE SHUTDOWN HOURS	0.0	23.8	328.1
14. HOURS GENERATOR ON-LINE	744.0	2758.9	60334.9
15. UNIT RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
16. GROSS THERMAL ENERGY GENERATED (MWH)	1758692.6	6670989.7	141386862.6
17. GROSS ELECTRICAL ENERGY GENERATED (MWH)	564495.0	2135980.0	45930839.0
18. NET ELECTRICAL ENERGY GENERATED (MWH)	535005.0	2023754.0	43530814.0
19. UNIT SERVICE FACTOR	100.0 %	78.39 %	62.1 %
20. UNIT AVAILABILITY FACTOR	100.0 %	78.39 %	62.1 %
21. UNIT CAPACITY FACTOR (USING MDC NET)	92.8 %	71.6 %	57.8 %
22. UNIT CAPACITY FACTOR (USING DER NET)	91.3 %	70.4 %	56.8 %
23. UNIT FORCED OUTAGE RATE	0.0	21.6 %	14.4 %
24. SHUTDOWNS SCHEDULED OVER NEXT 6 MONTHS (TYPE, DATE, AND DURATION OF EACH)	FALL MAINTENANCE - 11-13-84 - 10 DA		

25. IF SHUT DOWN AT END OF REPORT PERIOD,  
 ESTIMATE DATE OF STARTUP

26. UNITS IN TEST STATUS FORECAST ACHIEVED  
 (PRIOR TO COMMERCIAL OPERATION)

INITIAL CRITICALITY  
 INITIAL ELECTRICITY  
 COMMERCIAL OPERATION

# UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH May, 1984

POCKET NO. 50-280  
 UNIT NAME Surry 1  
 DATE 06-07-84  
 COMPLETED BY Vivian Jones  
 TELEPHONE 357-3184 Ext. 477

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
84-6	05-26-84	5	141.4	D	1				Unit was shutdown for scheduled snubber outage.

<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

# UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH May, 1984

DOCKET NO. 50-281  
 UNIT NAME Surry II  
 DATE 06-07-84  
 COMPLETED BY Vivian Jones  
 TELEPHONE 357-3184 Ext. 477

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
84-16	5-8-84	5	0.0	H	1				Unit was reduced to 57% power (440 mw's) for load following.
84-17	5-9-84	5	0.0	H	1				Unit was reduced to 55% power (460 mw's) for load following.
84-18	5-10-84	5	0.0	H	1				Unit was reduced to 76% power (600 mw's) for load following.

<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





DOCKET NO 50-280  
UNIT SURRY I  
DATE 6-1-84  
COMPLETED BY V. H. Jones

AVERAGE DAILY UNIT POWER LEVEL

MONTH: MAY 84

DAY	AVERAGE DAILY POWER LEVEL (MWE-NET)	DAY	AVERAGE DAILY POWER LEVEL (MWE-NET)
1	758.3	17	747.6
2	757.1	18	750.8
3	756.5	19	750.3
4	757.5	20	749.5
5	754.1	21	750.2
6	752.3	22	749.2
7	752.0	23	749.5
8	750.3	24	747.0
9	749.5	25	726.3
10	750.3	26	19.2
11	749.9	27	0.0
12	749.7	28	0.0
13	749.7	29	0.0
14	751.2	30	0.0
15	749.7	31	0.0
16	738.2		

DAILY UNIT POWER LEVEL FORM INSTRUCTIONS

ON THIS FORM, LIST THE AVERAGE DAILY UNIT POWER LEVEL IN MWE-NET FOR EACH DAY IN THE REPORTING MONTH. THESE FIGURES WILL BE USED TO PLOT A GRAPH FOR EACH REPORTING MONTH. NOTE THAT BY USING MAXIMUM DEPENDABLE CAPACITY FOR THE NET ELECTRICAL RATING OF THE UNIT, THERE MAY BE OCCASIONS WHEN THE DAILY AVERAGE POWER EXCEEDS THE 100 %/• LINE (OR THE RESTRICTED POWER LEVEL LINE). IN SUCH CASES, THE AVERAGE DAILY UNIT POWER OUTPUT SHEET SHOULD BE FOOTNOTED TO EXPLAIN THE APPARENT ANOMALY.

DOCKET NO 50-281  
UNIT SURRY II  
DATE 6-1-84  
COMPLETED BY V. H. Jones

AVERAGE DAILY UNIT POWER LEVEL

MONTH: MAY 84

DAY	AVERAGE DAILY POWER LEVEL (MWE-NET)	DAY	AVERAGE DAILY POWER LEVEL (MWE-NET)
1	661.3	17	745.0
2	662.9	18	748.2
3	621.5	19	747.0
4	606.8	20	745.3
5	727.1	21	744.3
6	738.2	22	743.1
7	734.1	23	742.2
8	702.5	24	738.6
9	661.6	25	740.2
10	660.5	26	732.0
11	698.0	27	731.9
12	740.2	28	734.9
13	740.8	29	741.1
14	742.1	30	739.4
15	740.0	31	742.0
16	739.4		

DAILY UNIT POWER LEVEL FORM INSTRUCTIONS

ON THIS FORM, LIST THE AVERAGE DAILY UNIT POWER LEVEL IN MWE-NET FOR EACH DAY IN THE REPORTING MONTH. THESE FIGURES WILL BE USED TO PLOT A GRAPH FOR EACH REPORTING MONTH. NOTE THAT BY USING MAXIMUM DEPENDABLE CAPACITY FOR THE NET ELECTRICAL RATING OF THE UNIT, THERE MAY BE OCCASIONS WHEN THE DAILY AVERAGE POWER EXCEEDS THE 100 % LINE (OR THE RESTRICTED POWER LEVEL LINE). IN SUCH CASES, THE AVERAGE DAILY UNIT POWER OUTPUT SHEET SHOULD BE FOOTNOTED TO EXPLAIN THE APPARENT ANOMALY.

## SUMMARY OF OPERATING EXPERIENCE

May, 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 1

05-01-84	0000	This reporting period begins with the unit at 100% power (795 mw's).
05-16-84	0900	Power reduced to 90% power (705 mw's) due to loss of "A" high pressure drain pump.
	0958	Increasing power slowly while adjusting various level control valves on FW heaters.
	1505	Unit at 100% power (795 mw's).
05-25-84	2111	Commenced unit rampdown at 150 mw/hr for snubber outage
05-26-84	0235	Generator off the line
	0242	Rx shutdown
	1020	RCS < 350°F/450 psig
	1800	RCS < 200°F
	2051	RCS is degassed
05-31-84	2400	This reporting period ends with the RCS < 200°F, preparing to fill and vent the primary.

## SUMMARY OF OPERATING EXPERIENCE

May, 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 II

05-01-84	0000	This reporting period begins with unit at 90% power (700 mw's), evaluating sixth point feedwater problems.
05-03-84	0435	Power reduced to 83% power (660 mw's) to allow removal of fifth and sixth point heaters from service
05-04-84	1435	The fifth and sixth point heaters are returned to service, commenced a 3%/hour ramp up.
	2110	Unit at 100% power (775 mw's)
05-08-84	0110	Commenced ramp down for load follow
	0210	Holding at 650 mw's, 81% power
	0503	Commenced ramp up at 1540 mw/hr then continue at 3%/hr.
	1000	Unit at 100% power (780 mw's)
	2356	Commenced ramp down for load follow
05-09-84	0150	Holding at 57% power (440 mw's)
	0528	Commenced ramp up at /hr to 720 mw's then continue at 3%/hr.
	0845	Unit at 100% power (780 mw's)
	2259	Commenced ramp down for load follow.
05-10-84	0037	Holding at 55% power (460 mw's).
	0500	Commenced ramp up at 150 mw's/hr.
	0706	Unit at 100% power (775 mw's)
	2340	Commenced ramp down for load follow
05-10-84	0037	Holding at 55% power (460 mw's)
	0500	Commenced ramp up at 150 mw's/hr.
	0706	Unit at 100% power (775 mw's)
	2340	Commenced ramp down for load follow.

SUMMARY OF OPERATING EXPERIENCE

May 1984  
Unit II  
(continued)

05-11-84	0054	Holding at 76% power (600 mw's)
	0404	Commenced ramp up at 150 mw/hr
	0557	Unit at 100% power (780 mw's)
05-31-84	2400	This reporting period ends with the unit at 100% power (780 mw's)

## AMENDMENTS TO FACILITY LICENSE OR TECHNICAL SPECIFICATIONS

The Nuclear Regulatory Commission issued, on April 20 1984, Amendment Nos. 96 and 95 for Surry Power Station, Unit 1 and 2, respectively. These amendments revise the Technical Specifications to change Specification 4.18.B.1.F(2) to provide the fire pump system head at 231 feet instead of 250 feet to reflect pump design conditions.

FACILITY CHANGES REQUIRING  
NRC APPROVAL

NONE DURING THIS REPORTING PERIOD

**FACILITY CHANGES THAT  
DID NOT REQUIRE NRC APPROVAL**

April, 1984

<u>DC 84-14</u>	<u>RHR Heat Exchanger Support Modification</u>	<u>UNIT</u> 2
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This design change removed 4 snubbers on top of the RHR Heat Exchangers in Unit 2. The snubbers were 2½ inch Lymair hydraulic snubbers with a 6 inch stroke. The existing snubbers were determined to be unnecessary and were replaced with struts.

Summary of Safety Analysis

The modification will increase the designed seismic safety margin of the RHR Heat Exchangers and System. The reduction of the number of snubbers will also decrease the number that must be inspected/maintained, thus decreasing personnel radiation exposure and work hazards.

<u>DC 84-15</u>	<u>RHR Heat Exchanger Support Modification</u>	1
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This design change removed 4 snubbers on top of the RHR Heat Exchangers in Unit 1. The snubbers were 2½ inch ITT Grinnell hydraulic snubbers with Lynair cylinders having a 6 inch stroke. The existing snubbers were determined to be unnecessary and were replaced with struts.

Summary of Safety Analysis

(Same as 84-14)

<u>DC 81-105</u>	<u>Class 1E Motor Operated Valve (MOV) Actuator Replacement</u>	1
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This design change removed the existing MOV actuators, located inside the containment, from service and replaced them with equivalent actuators which have adequately demonstrated environmental qualification. The remaining non-qualified actuators, located outside the containment, were converted to meet the requirements.

Summary of Safety Analysis

The modification will provide additional assurance that the MOV's will perform their intended safety function during and following any postulated LOCA or HELB accident.

<u>DC 83-26</u>	<u>Timing Circuitry for Reactor Trip Breaker</u>	1
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This design change permanently installed test circuitry to measure the time response of the reactor trip breaker to a trip signal.

Summary of Safety Analysis

The permanent installation of cables and test connections will minimize the chance for errors and improve the overall safety of personnel and equipment.

FACILITY CHANGES THAT  
DID NOT REQUIRE NRC APPROVAL

May, 1984

DC 82-11A Redundant Control Room Habitability Redundant 1+2

Control Room Bottled Air Supply System

The existing control room bottled air system could not be modified practically to make the system single-failure proof. A redundant control room bottled air system was installed in parallel with the existing system to meet a NRC commitment.

Summary of Safety Analysis

The addition of a redundant bottled air supply system improves the capability for pressurizing the control room.

DC 81-50 Installation of Time Delay on the Output 1+2

Breaker of EDG's

This design change added a timer in the EDG breaker control circuit to prevent automatic closing of this breaker for two seconds after detection of loss of voltage on the emergency buses. It will allow sufficient time for degrading of the residual voltage.

Summary of Safety Analysis

The modification will assure the residual voltage on the emergency bus has decayed before closing the EDG output breaker. The possibility of damaging safety related equipment is reduced and therefore will improve the operation of the plant.

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

NONE DURING THIS REPORTING PERIOD

VIRGINIA ELECTRIC AND POWER COMPANY  
SURRY POWER STATION  
CHEMISTRY REPORT

May 19 84

PRIMARY COOLANT ANALYSIS	UNIT NO. 1			UNIT NO. 2		
	MAXIMUM	MINIMUM	AVERAGE	MAXIMUM	MINIMUM	AVERAGE
Gross Radioact., $\mu\text{Ci/ml}$	1.87°	8.21 <sup>-2</sup>	1.28	1.33 <sup>-1</sup>	4.76 <sup>-2</sup>	8.84 <sup>-2</sup>
Suspended Solids, ppm	0.0	0.0	0.0	0.0	0.0	0.0
Gross Tritium, $\mu\text{Ci/ml}$	8.62 <sup>-2</sup>	6.35 <sup>-2</sup>	7.59 <sup>-2</sup>	1.49 <sup>-1</sup>	1.11 <sup>-2</sup>	4.96 <sup>-2</sup>
Iodine <sup>131</sup> , $\mu\text{Ci/ml}$ (A)	1.34°	2.55 <sup>-2</sup>	3.01 <sup>-1</sup>	5.93 <sup>-4</sup>	6.42 <sup>-5</sup>	1.72 <sup>-4</sup>
I <sup>131</sup> / I <sup>133</sup>	.74	.23	.51	.28	.06	.15
Hydrogen, cc/kg	36.7	4.6 (A)	22.9	44.4	28.3	35.0
Lithium, ppm	2.04	.77	.89	1.32	1.09	1.21
Boron-10, ppm*	266	38	91	130	107	116
Oxygen, (D.O.), ppm (A)	0.30	<.005	0.014	<.005	<.005	<.005
Chloride, ppm	<.02	<.02	<.02	<.02	<.02	<.02
pH @ 25°C	7.05	6.26	6.87	6.75	6.60	6.66

\* Boron-10 = Total Boron x 0.196

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

Phosphate	-	Boron	1545
Sulfate	-	Chromate	0.0
50% NaOH	-	Chlorine	-

REMARKS: (A) Unit 1 shutdown 5/25/84 for maintenance. (B) Lithium additions - Unit 1: 130 gms. 5/16; 1840 gms. 5/26. Lithium additions - Unit 2: 162 gms. 5/8; 170 gms. 5/9; 210 gms. 5/10; 150 gms 5/11; 140 gms 5/16. Cation bed in service for lithium removal - Unit 2: 5/6, 5/7, 5/14, 5/15, 5/19, 5/22 and 5/29. (C) The levels of these chemicals should create no adverse environmental impact.

DESCRIPTION OF ALL INSTANCES WHERE  
THERMAL DISCHARGE LIMITS WERE EXCEEDED

NONE DURING THIS REPORTING PERIOD

FUEL HANDLING

UNIT # 1

DATE IPPED/RECEIVED	NO. OF ASSEMBLIES PER SHIPMENT	ANSI NO. INITIAL ENRICHMENT	NEW OR SPENT FUEL SHIPPING CASK ACTIVITY LEVEL
5-7-84	14	5E3/3.6%	<2.5 mr/hr
5-7-84	14	5E5/3.6%	<2.5 mr/hr
5-7-84	14	0E2/3.6%	<2.5 mr/hr
5-7-84	14	2E0/3.6%	<2.5 mr/hr
5-7-84	14	2E8/3.6%	<2.5 mr/hr
5-7-84	14	3E8/3.6%	<2.5 mr/hr
5-7-84	14	5E4/3.6%	<2.5 mr/hr
5-7-84	14	2E7/3.6%	<2.5 mr/hr
5-7-84	14	0E5/3.6%	<2.5 mr/hr
5-7-84	14	0E6/3.6%	<2.5 mr/hr
5-7-84	14	2E9/3.6%	<2.5 mr/hr
5-7-84	14	5E1/3.6%	<2.5 mr/hr
5-7-84	14	3E9/3.6%	<2.5 mr/hr
5-7-84	14	5E2/3.6%	<2.5 mr/hr
5-9-84	14	0E4/3.6%	<2.5 mr/hr
5-9-84	14	1E3/3.6%	<2.5 mr/hr
5-9-84	14	4E7/3.6%	<2.5 mr/hr
5-9-84	14	4E4/3.6%	<2.5 mr/hr
5-9-84	14	3E3/3.6%	<2.5 mr/hr
5-9-84	14	2E1/3.6%	<2.5 mr/hr
5-9-84	14	0E8/3.6%	<2.5 mr/hr
5-9-84	14	0E3/3.6%	<2.5 mr/hr
5-9-84	14	1E2/3.6%	<2.5 mr/hr
5-9-84	14	0E7/3.6%	<2.5 mr/hr
5-9-84	14	4E5/3.6%	<2.5 mr/hr

UNIT # 1UNIT # 1

-21-

UNIT # 2UNIT # 2

-22-

PROCEDURE REVISIONS THAT CHANGED THE  
OPERATING MODE DESCRIBED IN THE PSAR

NONE DURING THIS REPORTING PERIOD

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

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

UNIT: 1

DEPT: MECH

RETSEVDT	SYS COMP	MARKNO	SUMMARY
WXPREF			MR
05/28/84	MS PIPE	TV-MS-101C	REROUTE GLAND LEAK OFF
INSPECTED AND FOUND RATCHET TYPE			305061414
05/28/84	MS PIPE	TV-MS-101B	REROUTE GLAND LEAK OFF
INSPECTED AND FOUND RATCHET TYPE			305061415
05/30/84	CS VALVE	1-CS-7	CHECK VALVE
VALVE SEAT BANGING FOUND			308052018
05/30/84	CC SNUBBER	1-CC-HSS-332A	REFILL RESERVOIR TO 90 PERCENT
REFILLED RESERVOIR TO 90 PERCENT			405251311
05/30/84	CC SNUBBER	1-CC-HSS-331	REFILL RESERVOIR TO 90 PERCENT
REFILLED SNUBBER TO 90 PERCENT			405251310
05/30/84	CC SNUBBER	1-CC-HSS-332B	REFILL RESERVOIR TO 90 PERCENT
REFILLED RESERVOIR TO 90 PERCENT			405251312
05/30/84	HSS SNUBBER	1-HSS-SHP-22	FILL RESERVOIR TO 90 PERCENT
REFILLED RESERVOIR TO 100 PERCENT			405251314
05/30/84	HSS SNUBBER	1-HSS-SHP-1A	FILL RESERVOIR TO 100 PERCENT
REFILLED RESERVOIR TO 100 PERCENT			405251315
05/30/84	HSS SNUBBER	1-HSS-SHP-1B	FILL RESERVOIR TO 100 PERCENT
REFILLED RESERVOIR TO 100 PERCENT			405251316
05/30/84	CC SNUBBER	1-CC-HSS-302	REFILL FLUID RESERVOIR
REFILLED RESERVOIR TO 90 PERCENT			405251317
05/30/84	CC SNUBBER	1-CC-HSS-330	REFILL RESERVOIR TO 90 PERCENT
REFILLED SNUBBER TO 90 PERCENT			405251319
05/30/84	HS SNUBBER	1-SHP-HSS-30	FILL SNUBBER RESER
FILLED RESERVOIR TO 90 PERCENT			405261350
05/30/84	CC SNUBBER	1-CC-HSS-60A	REFILL RESERVOIR TO 90 PERCENT
REFILLED RESERVOIR TO 90 PERCENT			405251307
05/30/84	HSS SNUBBER	1-SHP-HSS-35B	FILL SNUBBER RESER
FILLED RESERVOIR TO 90 PERCENT			405261351
05/31/84	MS VALVE	1-MS-TV-109	VALVE NEEDS REPACKING
REPACKED VALVE WITH			405190107
05/31/84	SW PIPE	3-SW-53-136	REPLACE PIPE
CUT OLD THRODLET OFF			405240954
05/31/84	HSS SNUBBER	1-HSS-WFPD-3	FILL RESERVOIR/TIGHTEN FITTINGS
FILLED RESERVOIR TO 90 PERCENT			405282253
05/31/84	HSS SNUBBER	1-HSS-SHP 35B	REMOVE REMOTE RESERVOIR

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MAINTENANCE OF SAFETY RELATED SYSTEMS DURING OUTAGE OR REDUCED POWER PERIODS  
UNIT: 1

DEPT: MECH

RETSRVDT	SYS COMP	MARKNO	SUMMARY
WKPERF			MR
REMOVE REMOTE RESERVOIR			404221709
05/31/84 HSS SNUBBER 1-HSS-SHP-6B			FILL RESERVOIR TO 90 PERCENT
ED RESERVOIR TO 90 PERCENT			405282256
05/31/84 MS VALVE 1-MS-104			BODY TO BONNET LEAK
REPLACED BONNET GASKET			405210140
05/31/84 FW VALVE 1-FW-27			RE-TORQUE CAP STUDS TO 150
RETORQUED CAP STUDS TO 150 FT LBSS			405270825
05/31/84 HSS SNUBBER 1-HSS-1APD-140			TIGHTEN FITTING/FILL RESERVOIR
TIGHTENED FITTING AND			405281908
05/31/84 HSS SNUBBER 1-HSS-WAPD141A			TIGHTEN FITTING/FILL RESERVOIR
TIGHTENED FITTINGS AND			405281907
05/31/84 HSS SNUBBER 1-HSS-WFPD-1			FILL FLUID RESERVOIR TO 90 PERCENT
FILLED RESERVOIR TO 90 PERCENT			405282252
05/31/84 HSS SNUBBER 1-HSS-SHP-29			REMOVE REMOTE RESERVOIR
REMOVE REMOTE RESERVOIR			404221708

MAINTENANCE OF SAFETY RELATED SYSTEMS DURING  
OUTAGE OR REDUCED POWER PERIODS

UNIT NO. 2

MECHANICAL MAINTENANCE

MAINTENANCE OF SAFETY RELATED SYSTEMS DURING OUTAGE OR REDUCED POWER PERIODS  
UNIT: 2

DEPT: MECH

RETSEVDT	SYS COMP	MARKNO	SUMMARY
WKPERF			MR
05/03/84	HSS SNUBBER	2-RC-HSS-187	REMOVE+REBUILT+REINSTALL SNUBBER
	REMOVE FOR TESTING AND OVERHAUL		307200956
05/03/84	HSS SNUBBER	2-RC-HSS-163	REINSTALL SNUBBER
	REMOVE FOR TESTING AND OVERHAUL		307080934
05/04/84	CC VALVE	2-CC-HCV-201	VALVE AND LINE NEED RELAGGING
	VALVE+LINE REINSULATED		404210900
05/08/84	BD VALVE	2-BD-54	STEAM BLOWING AROUND FITTING
	NJECTED PURMANITE COMPOUND UPSTREAM		404301522

05/09/84	MS VALVE	2-MS-201A	REPACK WEST SIDE OF ROCKSHAFT
	ADJUSTED PACKING		404131246
05/09/84	BD VALVE	2-BD-3	PURMANITE KILL VALVE
	REINJECTE UP STREAM SIDE OF VALVE		405040711

05/09/84	BD VALVE	2-BD-52	PURMANITE KILL VALVE
	REINJECT UPSTREAM SIDE OF VALVE		405040710

MAINTENANCE OF SAFETY RELATED SYSTEMS DURING  
OUTAGE OR REDUCED POWER PERIODS

UNIT NO. 1

ELECTRICAL MAINTENANCE

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MAINTENANCE OF SAFETY RELATED SYSTEMS DURING OUTAGE OR REDUCED POWER PERIODS  
UNIT: 1

DEPT: ELEC

RETSEVDT	SYS COIP	MARKNO	SUMMARY	MR
05/28/84	RH PUMP	1-RH-P-1B	NEEDS OIL	
	ADD OIL TO RHR B COMPLETE			405090745
05/29/84	RC VALVE	1-RC-HCV-1F56C	DISCONNECT/RECONNECT FOR MAINT.	
	REPLACED SOV AS PER			405031206
05/29/84	FW AGASTAT	1-FW-MOV-151F	REPLACE AGASTAT RELAY	
	REPLACED AGASTAT AND CONNECTED			405251150
05/29/84	FW AGASTAT	1-FW-MOV-151E	REPLACE AGASTAT RELAY	
	REPLACED AGASTAT AND CONNECTED			405251149
05/29/84	FW AGASTAT	1-FW-MOV-151D	REPLACE AGASTAT RELAY	
	REPLACED OLD AGASTAT WITH NEW ONE			405251148
05/29/84	FW AGASTAT	1-FW-MOV-151B	REPLACE AGASTAT RELAY	
	REPLACED OLD AGASTAT WITH NEW			405251146
05/29/84	FW AGASTAT	1-FW-MOV-151C	REPLACE AGASTAT RELAY	
	REPLACED AGASTAT AND CONNECTED			405251147
05/29/84	FW AGASTAT	1-FW-MOV-151A	REPLACE AGASTAT RELAY	
	REPLACED AGASTAT WITH NEW			405251145
05/30/84	SS VALVE	1-SS-HCV-101A	VALVE INDICATOR STUCK	
	CYCLED VALVE ELECTRICALLY FROM			405211108
05/31/84	RP CONNECT	1-RP-IRPI-D4	CHECK ALL CONNECTORS	
	FOUND BENT PIN AT PLUG CONNECTION			405241308

MAINTENANCE OF SAFETY RELATED SYSTEMS DURING  
OUTAGE OR REDUCED POWER PERIODS

UNIT NO. 2

ELECTRICAL MAINTENANCE

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MAINTENANCE OF SAFETY RELATED SYSTEMS DURING OUTAGE OR REDUCED POWER PERIODS  
UNIT: 2

DEPT: ELEC

RETSEVDT SYS COMP MARKNO SUMMARY  
WKPERF MR

05/03/84 EPDC TRANSFM N/A INSPECT SOLA TRANSFORMER II-I  
REPLACED TRANSFORMERS 404241308

05/08/84 EPDC CHARGER 2B1 AC INPUT BRK FOUND TRIPPED  
RESET BREAKER AS REQUESTED 405061207  
05/08/84 CC PUMP 2-CC-P-2B ELEC DISCONNECT AND RECONNECT  
DISCONN+RECONN MOTOR 404041011  
05/09/84 EPL BREAKER 2-EPL-2HJ-214 RESET HARD TO OPERATE  
REPAIRED RESET BUTTON 405080431  
05/09/84 EPDC BATT 2B1 BALANCE LOADS 2B1+BATT CHG  
BALANCED LOADS ON BATT CHARGER 405081934  
05/11/84 CH PUMP 2-CH-P+1B INSPECT INSULATION AT MOTOR  
INSPECTED INSULATION CONNECTION 405081533

MAINTENANCE OF SAFETY RELATED SYSTEMS DURING  
OUTAGE OR REDUCED POWER PERIODS

UNIT NO. 1

INSTRUMENT MAINTENANCE

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MAINTENANCE OF SAFETY RELATED SYSTEMS DURING OUTAGE OR REDUCED POWER PERIODS

DEPT: INGT  
 RETSERVDT SYS COMP MARKNO SUMMARY  
 WKPERP MR

05/29/84	EE	INDICAT 1-EE-TK-2A	WILL NOT INDICATE PROPER LEVEL
05/29/84	RC	MONITOR 1-RC-RMS-159	405191450
05/29/84	EE	SWITCH NA	405230415
05/30/84	RC	SWITCH NA	405291014
05/31/84	RC	SWITCH 1-RC-CT-456	405141045
05/31/84	FW	VALVE 1-FV-1488	404362248
05/31/84	RM	MONITOR 1-RM-RMS-151	405300302

TIGHTENED ALL FITTINGS  
 REPAIRED BROKEN TAKEUP SPOOL  
 ADJUSTED PRESSURE SWITCH  
 PELACED TEST SWITCH AND VERIFIED  
 PERFORMED CALIBRATION ON CONTROLLER  
 OLD DETECTOR FAILED REPLACED

FILTER FAULT ACTIVITY DECREASES  
 SETPOINT NEEDS ADJUSTMENT  
 CHANNEL IN TEST SWITCH IS ERRATIC  
 VALVE INTERMITTENTLY OSCILLATING  
 READING OFF SCALE LOW

MAINTENANCE OF SAFETY RELATED SYSTEMS DURING  
OUTAGE OR REDUCED POWER PERIODS

UNIT NO. 2

INSTRUMENT MAINTENANCE

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MAINTENANCE OF SAFETY RELATED SYSTEMS DURING OUTAGE OR REDUCED POWER PERIODS  
UNIT: 2

DEPT: INST

RETSEVDT	SYS COMP	MARKNO	SUMMARY
WKPERF			MR
05/03/84	CC GAGE	2-CC-219	NEEDS GLASS OR NEW GAUGE
REPLACED GLASS			404210818
05/03/84	NI METER	2-NI-2-438	CALIBRATE METER
ADJUSTED METER			404210700
05/11/84	CH PUMP	2-CH-P-1B	2A CHG PUMP AUX OIL PUMP
EWR 84-48 SUBMITTED			211160418
05/11/84	RM RECORDER 2-RM-RR-200		REPLACE INK PAD
REPLACED INK PAD			405090501
15/11/84	RM RECORDER 2-RM-RR-250		CLEAN POINT CONTACTS
CLEANED CONTACTS ON INPUT ELECTOR			405090500

## HEALTH PHYSICS

May, 1984

There was no single release of radioactivity or radiation exposure specifically associated with an outage that accounted for more than ten percent of the allowable annual values in 10CFR20.

PROCEDURE DEVIATIONS REVIEWED BY STATION NUCLEAR  
SAFETY AND OPERATING COMMITTEE AFTER TIME LIMITS  
SPECIFIED IN TECHNICAL SPECIFICATIONS

<u>No.</u>	<u>Unit</u>	<u>Title</u>	<u>Date Deviated</u>	<u>Date Req. By SNSOC</u>
MMP-C-HSS-023	1,2	Corrective Maintenance for 8" x 10" Grinnell Hydraulic Suppressors Dual Bleed Orifice	04-02-84	05-03-84
PT 16.4	1	Containment Isolation Valve Leakage (Type C Testing)	04-20-84 04-21-84	05-10-84 05-10-84
PT-18.6	2	Monthly Testing of Related MOV's	04-03-84 04-06-84	05-03-84 05-03-84
OP-1B	1	Containment Checklist	04-16-84	05-03-84

VIRGINIA ELECTRIC AND POWER COMPANY  
RICHMOND, VIRGINIA 23261

W. L. STEWART  
VICE PRESIDENT  
NUCLEAR OPERATIONS

June 14, 1984

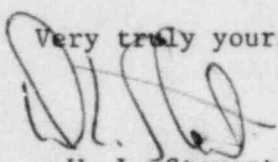
Mr. N. M. Haller, Director  
Office of Management and Program Analysis  
U. S. Nuclear Regulatory Commission  
Washington, D. C. 20555

Serial No. 347  
NO/DWL:acm  
Docket Nos. 50-280  
50-281  
License Nos. DPR-32  
DPR-37

Dear Mr. Haller:

Enclosed is the Monthly Operating Report for Surry Power Station Unit Nos. 1 and 2 for the month of May, 1984. Also enclosed is a corrected page (p.14) from the April, 1984 report.

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 (1 copy)  
NRC Resident Inspector  
Surry Power Station

IE24  
1/1