VIRGINIA ELECTRIC AND POWER COMPANY

SURRY POWER STATION

MONTHLY OPERATING REPORT

REPORT NO. 84-06

APPROVED BY: R F Saunders
STATION MANAGER

IE24
1/1

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FEB 0 2 1984

OPERATING DATA REPORT

DOCKET NO. 50-280
DATE 7-06-84
COMPLETED BY V. Jones
TELEPHONE 804-357-3184

OPERATING STATUS

1. Unit Name: Surry Unit 1 — Notes
2. Reporting Period: 06-01-84 to 06-30-84
3. Licensed Thermal Power (MWt): 2441
4. Nameplate Rating (Gross MWe): 847.5
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 Number 3 Through 7) Since Last Report, Give Reasons: N/A
9. Power Level To Which Restricted, If Any (Net MWe):
10. Reasons For Restrictions, If Any:

	This Month	Yr.-to-Date	Cummulative
11. Hours In Reporting Period	720.0	4367.0	101501.0
12. Number of Hours Reactor Was Critical	481.8	3240.7	62333.6
13. Reactor Reserve Shutdown Hours	.0	9.3	3774.5
14. Hours Generator On-Line	469.4	3180.8	61048.0
15. Unit Reserve Shutdown Hours	0	0	3736.2
16. Gross Thermal Energy Generated (MWH)	961359.1	7384017.8	142310322.1
17. Gross Electrical Energy Generated (MWH)	305830.0	2384555.0	45704398.0
18. Net Electrical Energy Generated (MWH)	287601.0	2262148.0	43339884.0
19. Unit Service Factor	65.2%	72.8%	60.2%
20. Unit Available Factor	65.2%	72.8%	63.8%
21. Unit Capacity Factor (Using MDC Net)	51.6%	66.8%	55.1%
22. Unit Capacity Factor (Using DER Net)	50.7%	65.7%	54.2%
23. Unit Forced Rate	26.9%	6.7%	20.2%

24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each): Snubber Inspection - 08-03-84 - 10 Days
25. If Shut Down At End Of Report Period Estimated Date of Startup:
26. Units In Test Status (Prior to Commercial Operation):

	Forecast	Achieved
INITIAL CRITICALITY		
INITIAL ELECTRICITY		
COMMERCIAL OPERATION		

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FEB 0 2 1984

OPERATING DATA REPORT

DOCKET NO. 50-281
DATE 07-06-84
COMPLETED BY V. Jones
TELEPHONE 804-357-3184

OPERATING STATUS

1. Unit Name: Surry Unit 2 — Notes
2. Reporting Period: 06-01-84 to 06-30-84
3. Licensed Thermal Power (MWt): 2441
4. Nameplate Rating (Gross MWe): 847.5
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 Number 3 Through 7) Since Last Report, Give Reasons: N/A

9. Power Level To Which Restricted, If Any (Net MWe):
10. Reasons For Restrictions, If Any:

		This Month	Yr.-to-Date	Cummulative
11.	Hours In Reporting Period	720.0	4367.0	97895.0
12.	Number of Hours Reactor Was Critical	720.0	3627.4	62198.3
13.	Reactor Reserve Shutdown Hours	.0	.0	328.1
14.	Hours Generator On-Line	720.0	3578.9	61154.9
15.	Unit Reserve Shutdown Hours	0	0	0
16.	Gross Thermal Energy Generated (MWH)	1743647.3	8414637.0	143130509.9
17.	Gross Electrical Energy Generated (MWH)	553540.0	2689520.0	46484379.0
18.	Net Electrical Energy Generated (MWH)	524860.0	2548614.0	44055674.0
19.	Unit Service Factor	100.%	82.0%	62.5%
20.	Unit Available Factor	100.0%	82.0%	62.5%
21.	Unit Capacity Factor (Using MDC Net)	94.1%	75.3%	58.1%
22.	Unit Capacity Factor (Using DER Net)	92.5%	74.1%	57.1%
23.	Unit Forced Rate	0	18.1%	14.3%

24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each): Fall Maintenance - 11-13-84 - 10 Days

25. If Shut Down At End Of Report Period Estimated Date of Startup:
26. Units In Test Status (Prior to Commercial Operation):

	Forecast	Achieved
INITIAL CRITICALITY		
INITIAL ELECTRICITY		
COMMERCIAL OPERATION		

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-280
UNIT NAME Surry Unit 1
DATE July 5, 1984
COMPLETED BY V. H. Jones
TELEPHONE 804-859-6150

REPORT MONTH June, 1984

No.	Date	Type[1]	Duration (Hours)	Reason[2]	Method of Shutting Down Reactor[3]	Licensee Event Report #	System Code[4]	Component Code[5]	Cause & Corrective Action to Prevent Recurrence
84-6	06-01-84	S	78.1	B	1				Unit was shutdown for scheduled snubber outage which commenced on 5-26-84.
84-7	06-13-84	F	172.5	A	3	84-015-00 84-016-00			Reactor trip caused by "A" S/G low level due to the loss of 1-FW-P-1A. 1-FW-P-1A was repaired, but the unit was delayed from Startup due to control rod B-6 being stuck at ~60 steps. The unit was returned to service with the control rod in the stuck position, limiting power to 80% power.

1
F: Forced
S: Scheduled

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

3
Method:
1-Manual
2-Manual Scram.
3-Automatic Scram.
4-Other (Explain)

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

5
Exhibit I - Same Source

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UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH June, 1984

DOCKET NO. 50-281
UNIT NAME Surry Unit 2
DATE July 5, 1984
COMPLETED BY V. H. Jones
TELEPHONE 804-859-6150

No.	Date	Type[1]	Duration (Hours)	Reason[2]	Method of Shutting Down Reactor[3]	Licensee Event Report #	System Code[4]	Component Code[5]	Cause & Corrective Action to Prevent Recurrence
84-18	06-112-84	S	0.0	A	4 Reactor Not S/D				Unit was reduced to 64% power (490 MW's) to allow shutdown of 2-FW-P-1A to repair oil leak.

1
F: Forced
S: Scheduled

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

3
Method:
1-Manual
2-Manual Scram.
3-Automatic Scram.
4-Other (Explain)

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

5
Exhibit I - Same Source

(9/77)

LOAD REDUCTIONS DUE TO ENVIRONMENTAL RESTRICTIONS

UNIT NO.1 MONTH:

June, 1984

DATE	TIME	HOURS	LOAD, MW	REDUCTIONS, MW	MWH	REASON
			None during this reporting period.			
				MONTHLY TOTAL		

LOAD REDUCTIONS DUE TO ENVIRONMENTAL RESTRICTIONS

UNIT NO.2 MONTH: June, 1984

DATE	TIME	HOURS	LOAD, MW	REDUCTIONS, MW	MWH	REASON
			None during this reporting period.			

MONTHLY TOTAL

DOCKET NO 50-280
UNIT SURRY I
DATE 7-1-84
COMPLETED BY V. H. Jones

AVERAGE DAILY UNIT POWER LEVEL

MONTH: JUNE -84

DAY	AVERAGE DAILY POWER LEVEL (MWE-NET)	DAY	AVERAGE DAILY POWER LEVEL (MWE-NET)
1	0.0	16	0.0
2	0.0	17	0.0
3	0.0	18	0.0
4	212.3	19	0.0
5	660.6	20	19.4
6	745.2	21	276.0
7	741.3	22	549.1
8	744.0	23	576.5
9	743.4	24	578.3
10	741.4	25	577.0
11	740.2	26	575.0
12	739.4	27	576.0
13	475.9	28	574.1
14	0.0	29	570.2
15	0.0	30	568.3

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 o/o 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 7-1-84
COMPLETED BY V. H. Jones

AVERAGE DAILY UNIT POWER LEVEL

MONTH: JUNE 84

DAY	AVERAGE DAILY POWER LEVEL (MWE-NET)	DAY	AVERAGE DAILY POWER LEVEL (MWE-NET)
1	742.5	16	729.4
2	740.3	17	730.4
3	731.7	18	730.7
4	732.3	19	723.1
5	733.7	20	724.0
6	735.7	21	721.4
7	733.6	22	726.2
8	736.3	23	720.0
9	734.9	24	729.8
10	732.9	25	731.4
11	728.9	26	726.4
12	722.2	27	733.0
13	677.2	28	734.9
14	729.9	29	733.0
15	731.7	30	731.9

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 o/o 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

June, 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

06-01-84	0000	This reporting period begins with the RCS < 200°F, preparing to fill and vent primary
06-01-84	2011	Commenced fill and vent of RCS
	2313	Completed fill and vent
06-02-84	1205	Bubble established in pressurizer
06-03-84	0410	RCS > 200°F
	0258	RCS > 350°F / 450 psig
	2359	RCS at HSD
06-04-84	0126	Reactor Critical
	0606	Main generator on the line increasing load at 3% / hour
06-05-84	1310	Unit at 100% power (790 mw's)
06-13-84	1530	Reactor trip caused by "A" S/G low level due to loss of 1-FW-P-1A.
06-14-84	1126	While attempting to take reactor critical found control rod B-6 apparently stuck at ~30 steps
	2155	Control rod B-6 pulled to 228 steps
	2345	Control rod B-6 tripped, rod stopped at 60 steps and rod will not move in either direction
06-16-84	1204	Commenced cooldown to try and free up control rod B-6
	1748	RCS < 350 / 450 psig
06-17-84	0420	RCS at 250°F, control rod B-6 still will not move, commence RCS heatup
	1712	RCS > 350°F / 450 psig

SUMMARY OF OPERATING EXPERIENCE

JUNE, 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

	2122	RCS at HSD commenced Rod drop testing, all rods except B-6 tested satisfactorily.
06-19-84	0209	Reactor critical.
	0414	Reactor trip by turbine trip, NI's exceeded 10% power without turbine being latched causing trip signal.
06-20-84	1442	Reactor critical
	2002	Main generator on the line, increasing power at 3%/hr.
	2050	Holding at 29% power (160 mw's) while performing flux maps.
06-21-84	0234	Commenced 3%/hr power increase.
	1130	Holding at 50% power (325 mw's) while performing flux maps.
	1547	Commenced 3% / hr power increase.
	1920	Holding at 60% power (400 mw's) while performing flux maps.
	2130	Commenced 3% / hr. power increase.
06-22-84	0100	Holding at 70% power (510 mw's) while performing flux maps.
	0310	Commenced 3%/hr. power increase.
	0690	Holding at 80% power (609 mw's).
06-30-84	2400	This reporting ends with the unit at 80% power (610 mw's).

Unit 2

06-01-84	0000	This reporting period begins with the unit at 100% power (780 mw's).
06-12-84	2235	Commenced load reduction to repair oil leak on 2-FW-P-1A.
06-13-84	0020	Holding at 64% power (490 mw's) to work 2-FW-P-1A
	0310	Completed repairs to 2-FW-P-1A, commenced power increase.
	0632	Unit at 100% power (780 mw's).
06-30-84	2400	This reporting period ends with the unit at 100% power (775 mw's).

AMENDMENTS TO FACILITY LICENSE OR TECHNICAL SPECIFICATIONS

June, 1984

None during this reporting period.

FACILITY CHANGES REQUIRING NRC APPROVAL

June, 1984

None during this reporting period.

FACILITY CHANGES THAT

DID NOT REQUIRE NRC APPROVAL

JUNE, 1984

		UNIT
DC 83-10	Secondary Sample Sink Relocation	2

This design change relocated the Secondary Sample Sink and associated piping and instrumentation. This will allow construction of the new Charging Pump Service Water Pump Cubicle adjoining the existing Mechanical Equipment Room # 3.

Summary of Safety Analysis

The modification does not affect normal station operation or the operation of any safety-related equipment or systems.

TESTS AND EXPERIMENTS REQUIRING NRC APPROVAL

June, 1984

None during this reporting period.

TESTS AND EXPERIMENTS THAT DID NOT REQUIRE NRC APPROVAL

June, 1984

None during this reporting period.

OTHER CHANGES, TESTS AND EXPERIMENTS

June, 1984

None during this reporting period.

VIRGINIA ELECTRIC AND POWER COMPANY
SURRY POWER STATION
CHEMISTRY REPORT

June 19 84

T.S. 6.6.3.d

PRIMARY COOLANT ANALYSIS	UNIT NO. 1			UNIT NO. 2		
	MAXIMUM	MINIMUM	AVERAGE	MAXIMUM	MINIMUM	AVERAGE
Gross Radioact., µCi/ml	1.97^{0}	5.84^{-2}	9.32^{-1}	1.09^{-1}	4.66^{-2}	7.09^{-2}
Suspended Solids, ppm	0.00	0.00	0.00	0.00	0.00	0.00
Gross Tritium, µCi/ml	2.13^{-1}	1.54^{-2}	7.11^{-2}	2.35^{-1}	2.57^{-2}	1.79^{-1}
Iodine^{131}, µCi/ml (A)	1.18^{0}	1.41^{-2}	2.03^{-1}	6.20^{-4}	1.19^{-4}	2.12^{-4}
I^{131}/I^{133}	0.36	0.17	0.29	0.39	0.06	0.19
Hydrogen, cc/kg	35.9	19.3 (A)	27.7	39.8	25.0	31.4
Lithium, ppm (B)	2.10	0.71	1.15	1.21	1.00	1.10
Boron-10, ppm*	276	34	118	111	104	98
Oxygen, (D.O.), ppm	≤0.005	≤0.005	≤0.005	≤0.005	≤0.005	≤0.005
Chloride, ppm	≤0.02	≤0.02	≤0.02	≤0.02	≤0.02	≤0.02
pH @ 25°C	7.15	6.16	6.81	6.79	6.47	6.67

* Boron-10 = Total Boron x 0.196

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

Phosphate	-	Boron	248
Sulfate	-	Chromate	0.0
50% NaOH	-	Chlorine	-

REMARKS: (A) Unit 1 off line from 6-1 to 6-4, from 6-13 to 6-20 (B) Lithium additions-Unit 1: 2880 gms. 6-2; 68 gms. 6-4; 760 gms. 6-5; 260 gms. 6-6; 505 gms. 6-14; 805 gms. 6-15; 1290 gms. 6-16; 435 gms. 6-17; 405 gms. 6-18; 250 gms. 6-19; 245 gms. 6-20; 145 gms. 6-21; 475 gms. 6-22; 210 gms. 6-27; Unit 2: 130 gms. 6-13. Cation bed in service Unit 2 6-6 & 6-26. (C) The levels of these chemicals should create no adverse environmental impact.

DESCRIPTION OF ALL INSTANCES WHERE THERMAL DISCHARGE LIMITS WERE EXCEEDED

June, 1984

None during this reporting period.

FUEL HANDLING

UNIT # 1

June, 1984

DATE SHIPPED/RECEIVED	NO. OF ASSEMBLIES PER SHIPMENT	ANSI NO. INITIAL ENRICHMENT	NEW OR SPENT FUEL SHIPPING CASK ACTIVITY LEVEL
06-09-84	14	2E6 / 3.6%	<2.5 mr/hr
06-09-84	14	1E8 / 3.6%	<2.5 mr/hr
06-09-84	14	1E7 / 3.6%	<2.5 mr/hr
06-09-84	14	2E3 / 3.6%	<2.5 mr/hr
06-09-84	14	1E0 / 3.6%	<2.5 mr/hr
06-09-84	14	1E6 / 3.6%	<2.5 mr/hr
06-09-84	14	2E4 / 3.6%	<2.5 mr/hr
06-09-84	14	1E4 / 3.6%	<2.5 mr/hr
06-09-84	14	3E0 / 3.6%	<2.5 mr/hr
06-09-84	14	5E0 / 3.6%	<2.5 mr/hr
06-09-84	14	5E6 / 3.6%	<2.5 mr/hr
06-09-84	14	4E8 / 3.6%	<2.5 mr/hr
06-09-84	14	3E4 / 3.6%	<2.5 mr/hr
06-09-84	14	1E1 / 3.6%	<2.5 mr/hr

FUEL HANDLING

UNIT # 2

June, 1984

DATE SHIPPED/RECEIVED	NO. OF ASSEMBLIES PER SHIPMENT	ANSI NO. INITIAL ENRICHMENT	NEW OR SPENT FUEL SHIPPING CASK ACTIVITY LEVEL
	None during this reporting period.		

PROCEDURE REVISIONS THAT CHANGED THE OPERATING MODE DESCRIBED IN THE FSAR

June, 1984

Number	Unit	Title	Date
TIMP-C-RC-88	1	Temporary Maintenance Procedure for Placing F-1-434 and F-1-436 in a Safe Condition while performing Maintenance on F-1-435	06-29-84 (New)

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

June, 1984

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 SISTEMS DURING OUTAGE OR REDUCED POWER PERIODS
UNIT: 1

DEPT: MECH

RETSERVDT	SYS	COMP	MARKNO	SUMMARY	MR
06/01/84	SI	VALVE	1-SI-RCV-1850B	REPAIR BODY TO BONNET LEAK	
DISSAMBLED VALVE AND REPLACED				404180834	
06/01/84	SI	VALVE	1-SI-153	STANCHION INTERFERES WITH OPER OF VL	
REPLACED VALVE OPERATOR RATCHET				303311540	
06/01/84	CH	FLANGE	1-CH-366	REPLACE FLANGE	
CLEANED AND INSTALLED NEW GASKET				403042319	
06/01/84	SI	VALVE	1-SI-VLV-341	PACKING LEAK	
ADJUSTED PACKING				405260401	
06/01/84	SI	VALVE	1-SI-VLV-339	PACKING LEAK	
ADJUSTED PACKING				405260408	
06/01/84	RC	VALVE	1-RC-VLV-56	PACKING LEAK	
ADJUSTED PACKING				405260409	
06/01/84	FW	VALVE	1-FW-HCV-155C	VALVE LEAKS BY	
INSPECTED VALVE /IN GOOD MECHANICAL				405260706	
06/01/84	SI	VLV	1-SI-VLV-147	BODY TO BONNET LEAK	
REPLACED GASKET				405260415	
06/01/84	RC	VALVE	1-RC-VLV-17	PACKING LEAK	
ADJUSTED PACKING				405260410	
06/01/84	RC	SNUBBER	1-RC-HSS-150	FILL COMMON RESERVOIR	
TIGHTENED FITTING+FILLED RESERVOIR				405291910	
06/02/84	RC	SNUBBER	1-RC-HSS-170	MEASURE FLUID LEVEL	
RESERVOIR LEVEL WAS AT 100 PERCENT				405251302	
06/02/84	RC	SNUBBER	1-RC-HSS-166	MEASURE RESERVOIR LEVEL	
RESERVOIR LEVEL WAS AT 80 PERCENT				405251304	
06/02/84	RC	SNUBBER	1-RC-HS-162	MEASURE FLUID LEVEL	
RESERVOIR LEVEL WAS AT 100 PERCENT				405251303	
06/02/84	RH	SNUBBER	1-RH-HSS-10	FILL SNUBBER TO 100 PERCENT LEVEL	
FILLED RESERVOIR TO 100 PERCENT				405300706	
06/02/84	RH	SNUBBER	1-RH-HSS-27	REORIENTATE RESERVOIR HIGHER	
REORIENTATED RESERVOIR				405300702	
06/02/84	RH	SNUBBER	1-RH-HSS-1	CLEAN SHAFT +REMOVE ACID	
CLEANED ACID FROM SHAFT				405300701	
06/02/84	HSS	SNUBBER	1-PS-MSS-11A	MISSING COTTER PIN	
PUT COTTER PIN BACK IN BOLT				405300700	
06/02/84	RC	SNUBBER	1-RC-HSS-167	FILL RESERVOIR TIGHTEN FITTINGS	
FILLED RESERVOIR+TIGHTENED FITTING				405291915	
06/02/84	RC	SNUBBER	1-RC-HSS-154	FILL COMMON RESERVOIR	

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

DEPT: MECH

RETSERVDT	SYS	COMP	MARKNO	SUMMARY	MR
WKPERF					
TIGHTENED FITTING+FILLED RESERVOIR					405291911
06/02/84	SI	SNUBBER	1-SI-HSS-26	TIGHTEN FITTING	
TIGHTENED FITTING					405300110
06/02/84	RC	SNUBBER	1-RC-HSS-148	FITTING LEAK/FILL RESERVOIR	
TIGHTENED FITTING+FILLED RESERVOIR					405281902
06/02/84	RC	SNUBBER	1-RC-HSS-147	FITTING LEAK/FILL RESERVOIR	
TIGHTENED FITTING+FILLED RESERVOIR					405281903
06/02/84	RC	SNUBBER	1-RC-HSS-138	FITTING LEAK/FILL RESERVOIR	
TIGHTENED FITTINGS+FILLED RESERVOIR					405281905
06/02/84	HSS	SNUBBER	1-HSS-WAPD143A	PUT ON LOCK WASHER OR COTTER PIN	
PUT JAM NUT ON BOLT					405281906
06/02/84	RC	SNUBBER	1-RC-HSS-146	PACKING LEAK/FILL RESERVOIR	
TIGHTENED FITTING					405281901
06/02/84	RH	SNUBBER	1-RH-HSS-104	FILL RESERVOIR TIGHTEN FITTINGS	
TIGHTENED FITTINGS+FILLED RESERVOIR					405291914
06/02/84	RC	SNUBBER	1-RC-HSS-158	FILL COMMON RESERVOIRS	
TIGHTENED FITTING+FILLED RESERVOIR					405291912
06/02/84	HSS	SNUBBER	1-HSS-WGCB-02	FILL SNUBBER RESERVOIR TO 90 PERCENT	
FILLED RESERVOIR TO 90 PERCENT					405300112
06/03/84	CH	VALVE	1-CH-TV-1204	PACKING LEAK ADJUST/REPLACE PACKING	
ADJUSTED PACKING					405230550
06/03/84	EE	COMPRESS	1-EE-C-1	COMPRESSOR TRIPPED/OVERHEATED	
INSTALLED NEW FILTER AND HD GASKETS					405300715
06/03/84	RH	VALVE	1-RH-MOV-1700	REPACK VALVE	
REMOVED 9 RINGS PACKING REPLACED					405300838
06/04/84	CH	VALVE	1-CH-300	REPACK VALVE	
REPACKED VALVE					405230922
06/04/84	CH	VALVE	1-CH-294	REPACK VALVE	
REPACKED VALVE					405230930
06/04/84	CH	VALVE	1-CH-297	REPACK VALVE	
REPACKED VALVE					405230927
06/04/84	RC	VALVE	1-RC-VLV-89	PACKING LEAK	
REPLACED PACKING					405260416
06/04/84	CH	VALVE	1-CH-112	DIAPHRAM SEPERATED	
FOUND BROKEN STEM REPLACED					405241435
06/04/84	CC	VALVE	1-CC-815	NO FLOW ORTAINED THROUGH VALVE	
CUT DRAIN LINE UNSTOPPED REMAINING					403050344
06/04/84	SI	PIPEING	1-SI-1940	FLANGE LEAK	
REPLACED GASKETS+TIGHTENED					405230551
06/04/84	CH	MOV	1-CH-MOV-1370	PACKING AND BODY TO BONNET LEAK	
REPLACED PACKING AND FLEXATALLIC					403261504

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

DEPT: MECH

RETSERVDT	SYS	COMP	MARKNO	SUMMARY / MR
06/04/84	RH	SNUBBER	1-RH-HSS-22	MISSING SNAP RINGS/COTTER PINS
PUT COTTER PIN BACK IN				405311050
06/04/84	RH	SNUBBER	1-RH-HSS-21	FILL TO 90 PERCENT FLUID LEVEL
FILL 80 PERCENT				405311051
06/04/84	RH	SNUBBER	1-RH-HSS-105	TIGHTEN FITTINGS/FILL TO 90 PERCENT
FILL AND TIGHTENED FITTING				405311052
06/04/84	HSS	SNUBBER	1-HSS-SHP-36	FILL RESERVOIR TIGHTEN FITTING
FILLED RESERVOIR+TIGHTENED FITTING				406010039
06/04/84	RC	SNUBBER	1-RC-HSS-110	FILL RESERVOIR TO 80 PERCENT
ADDEDED FLUID TO RESERVOIR				405311337
06/04/84	RC	SNUBBER	1-RC-HSS-112	FILL RESERVOIR TO 80 PERCENT
FILL 80 PERCENT				405311340
06/04/84	SI	SNUBBER	1-SI-HSS-85	FILL RESERVOIR/TIGHTEN FITTINGS
FILLED RESERVOIR+TIGHTENED FITTINGS				406010038
06/04/84	RC	SNUBBER	1-RC-HSS-103	FILL TO 90 PERCENT FLUID LEVEL
FILLED RESERVOIR TO 90 PERCENT				405311053
06/04/84	RC	SNUBBER	1-RC-HSS-107	FITTING TO VALVE BLOCK LEAKS
FILL AND TIGHTENED FITTING				405311054
06/04/84	RC	SNUBBER	1-RC-HSS-102	FLUID LEAKING FROM ADJUSTING SCREW
FILL AND TIGHTENED FITTING				405311055
06/04/84	RC	SNUBBER	1-RC-HSS-147	PACKING LEAK/REPACK VALVE
ADJUSTED PACKING				405311336
06/04/84	RC	SNUBBER	1-RC-HSS-172	TUBING TEE LEAKING REPAIR REPLACE
TIGHTENED FITTINGS				405311335
06/04/84	CW	VALVE	1-CW-MOV-100D	LEVER WILL NOT DISENGUAGE
TESTED FINE				405271000
06/04/84	RC	SNUBBER	1-RC-HSS-142	FITTING LEAK/FILL RESERVOIR
TIGHTENED FITTING				405281904
06/04/84	SI	SNUBBER	-SI-HSS-22B	FILL TO 90 PERCENT
FILLED RESERVOIR				405311805
06/04/84	RC	SNUBBER	1-RC-HSS-115	FILL RESERVOIR TO 80 PERCENT
FILL 80 PERCENT				405311338
06/04/84	HSS	SNUBBER	1-HSS-SHP-3B	REPLACE RESERVOIR O RING/FILL
CHECK ORING ADDED FLUID				405282255
06/04/84	HSS	SNUBBER	1-HSS-WFPD-8	REBUILD OR REPLACE SNUBBER
REPLACED 2 1/2 MILLER SNUBBER WITH				405282254
06/04/84	HSS	SNUBBER	1-HSS-WAPD143B	PUT LOCK WASHER OR COTTER PIN ON
PUT JAM NUT ON BOLT				405281909
06/04/84	EE	VALVE	1-EE-VLV-33	REPLACE LOCKING NUT
TIGHTENED LOCKNUT				405291224
05/04/84	RC	SNUBBER	1-RC-HSS-114	FILL RESERVOIR TO 80 PERCENT
FILLED RESERVOIR 80 PERCENT				405311339
06/05/84	FW	VALVE	1-FW-44	VALVE LEAKS BY REPAIR
REPLACED VALVE				405190450
06/05/84	EE	VALVE	1-EG-21	REPLACE VALVE /LEAKS BY

MAINTENANCE OF SAFETY RELATED SYSTEMS DURING OUTAGE OR REDUCED POWER PERIODS

UNIT: 1

DEPT: MECH

RETSERVDT WKPERF	SYS	COMP	MARKNO	SUMMARY MR
INSTALLED PIPE CAP BACK ON VLV				405170900
06/05/84	RC	MANWAY	1-RC-E-1B	SECONDARY MANWAY LEAKS
REPAIRED LEAK BY WELD REPAIR				405220935
06/05/84	CS	VALVE	1-CS-120	VALVE LEAKS BY SEAT BADLY
LAPPED SEATING SURFACE OF DISC				312112238
06/05/84	CH	VALVE	1-CH-292	PACKING LEAK ADJUST/REPLACE
ADJUSTED PACKING				405230558
06/13/84	CH	VALVE	1-CH-VLV-103	REPLACE DIAPHRAM
REPLACED DIAPHRAGM				405260830
06/13/84	CS	VALVE	1-CS-02	ADJUST PACKING AND CLEAN BA DEBRIS
ADJUSTED PACKING AND CLEANED				406071514
06/13/84	FW	PUMP	1-FW-P-2A	TIGHTEN PACKING OR REPACK
ADJUSTED PACKING				406041453
06/13/84	MS	VALVE	1-MS-PCV-102B	VALVE LEAKS THRU
REPLACED GASKET				406071801
06/13/84	CC	VALVE	1-CC-732	LEAKING VALVE ADJUST
ADJUSTED PACKING				406060805
06/13/84	MS	VALVE	1-MS-PCV-102A	VALVE LEAKS THRU
REPLACED GASKETS				406071800
06/15/84	MS	VALVE	1-MS-7	REPACK VALVE
INSTALLED PIPE CAP				406041500
06/15/84	CS	VALVE	1-CS-5	REPACK VALVE
ADJUSTED PACKING				406041506
06/15/84	CS	VALVE	1-CS-03	ADJUST PACKING CLEAN DEBRIS
ADJUSTED PACKING				406071155
06/15/84	CS	VALVE	1-CS-06	ADJUST PACKING CLEAN DEBRIS
ADJUSTED PACKING				406071156
06/18/84	FP	PIPE	N/A	ELBOW LEAKS
ANNUAL TEST OF FIRE SYS CONDUCTED				312050719
06/18/84	GN	VALVE	1-GN-2	PACKING LEAK
ADJUSTED PACKING				406090202
06/18/84	LW	VALVE	1-LW-263	VALVE VERY HARD TO OPERATE
CHANGED OUT DIA				405310100
06/20/84	HSS	SNUBBER	1-HSS-SHP-31	LOW FLUID LEVEL-REFILL
FILLED RESERVOIR TO 100 PERCENT				406160916
06/20/84	HSS	SNUBBER	1-HSS-SHP-27	LOW FLUID LEVEL
FILLED RESERVOIR TO 100 PERCENT				406160917
06/20/84	FW	VALVE	1-FW-MOV-151D	REPAIR/REPLACE GEAR ASSEMBLY
INSPECTED FOUND LIMITORQUE SAT				406191135
06/21/84	SI	VALVE	1-SI-MOV-1867D	EXCESSIVE VALVE STEM LEAKOFF
ADJUSTED PACKING				406161555

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

DEPT: MECH

RETSERVDT	SYS	COMP	MARKNO	SUMMARY
WKPERF				MR
06/21/84	CS	VALVE	1-CS-MOV-101C	FLANGE LEAKS
TORQUED AND ADJ STUD FOR FULL				406140920
06/21/84	CS	VALVE	1-CS-92	ADJ. PACKING
ADJUSTED PACKING AND CLEANED				406171834
06/21/84	CS	VALVE	1-CS-103C	TIGHTEN INLET FLANGE
TIGHTENED AND CLEANED FLANGE				406171837
06/22/84	FW	PUMP	1-FW-P-3A	FITTING LEAK TIGHTEN/REPLACE
TIGHTENED SWAGELOCK FITTINGS				406041501
06/22/84	FW	VALVE	1-FW-P-3B	FITTING LEAKS
TIGHTENED SWAGELOCK FITTINGS				406041457
06/22/84	MS	VALVE	1-MS-75	ADJ. PACKING GLAND
REPLACED NUT ADJUSTED PACKING				406171833
06/22/84	CS	VALVE	1-CS-66	PIPE CAP LEAKING
REMOVED BORIC ACID AND				406141326
06/23/84	SW	PUMP	1-SW-P-10B	SEAL LEAK
REPLACED MECH SEAL				402101346
06/26/84	CS	SUPORT	1-CS-P-1B	NUTS ARE IMPROPERLY TORQUED
TORQUE SUPPORT NUTS				306101601
06/26/84	CH	VALVE	MOV-1289A	BOLT TO BONNET LEAK
TIGHTENED FLANGE				306201259
06/26/84	BS	FRDR	20	FIRE DOOR 20 LEAKS
INSTALLED WEATHER STRIPPING				306200220
06/27/84	CS	VALVE	1-CS-MOV-101D	VALVE LEAKING AT FLANGE
TORQUED FLANGE BOLTS TO 275				406250901
06/27/84	FW	VALVE	1-FW-61	BODY TO BONNET LEAK PURMANITE
INJECTED BODY TO BONNET LEAK WITH				406120856
06/27/84	MS	VALVE	1-MS-104	BODY TO BONNET LEAK
INJECTED BODY TO BONNET LEAK WITH				406091500
06/27/84	VS	FAN	1-VS-F-39	055200
ADJUSTED BELT				406101006
06/27/84	FP	FR DR	1-FP-28	DOOR CLOSER ARM LOOSE
TIGHTENED SCREWS				406192301

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

RETSERVDT WKPERF	SYS	COMP	MARKNO	SUMMARY MR
06/13/84	FP	EXTINGUI	2-FP-EXT-157	INSTALL FIRE EXTINGUISHER BRACKET
INSTALLED FIRE BOTTLE BRACKET			406071203	

MAINTENANCE OF SAFETY RELATED SYSTEMS DURING OUTAGE OR REDUCED POWER PERIODS

UNIT NO. 1

ELECTRICAL MAINTENANCE

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

DEPT: ELEC

RETSERVDT	SYS	COMP	MARKNO	SUMMARY
WKPERF				MR
06/01/84	RC	RELAY	33XBV590	RELAY FOUND ENERGIZED
REPLACED STEM SW SWITCH				311301400
06/01/84	SW	BATT	1-SW-P-1C	CLEAN BATTERIES
CLEANED BATTERIES				405290705
06/01/84	CH	VALVE	1-CH-MOV-1287C	CHECK TORQUE SWITCH
VALVE FREED UP CYCLED				405301822
06/01/84	SI	VALVE	1-SI-HCV-1850B	ELEC DISCONN+RECONN VLV FOR MAINT
DISCONNECT+RECONNECT AFTER MAINT				404261237
06/02/84	SI	VALVE	1-SI-HCV-1853C	SOLENOID BLOWING BI
REPLACED SOV TEST SAT				405281950
06/04/84	SW	VALVE	1-SW-MOV-103D	SET TORQUE SWITCH
RESET TORQUE SWITCH SETTING				406011648
06/04/84	CH	VALVE	1-CH-MOV-1370	ELECT DISCONN+RECONN VLV FOR MAINT
FRAN CYCLE OF MOV FOR OPEN+CLOSE				404260811
06/13/84	EPL	BREAKER	1-EPL-1J1-142	POSSIBLE HEAT/SMOKE DAMAGE
CHECKED BKR FOR SMOKE AND HEAT				406072223
06/13/84	MS	VALVE	1-MS-PCV-102A	REMOVE+INSTALL ELECTRICAL SWITCHES
ADJUSTED LIMIT SWITCH FOR				406080701
06/13/84	MS	VALVE	1-MS-PCV-102B	REMOVE+INSTALL ELECTRICAL SWITCHES
ADJUSTED LIMIT SWITCHES FOR				406080703
06/13/84	EPL	BREAKER	1-EPL-1J1-143	INVESTIGATE AND VERIFY NOT DAMAGED
CHECKED BKR FOR SMOKE HEAT				406072207
06/15/84	CC	SHIELD	1-CC-FCV-113A	VLV OPEN DOES NOT INDICATE
ADJUSTED LIMIT SWITCH				405291816
06/20/84	FW	VALVE	1-FW-MOV-151D	VALVE WON'T CLOSE OR OPEN
REPLACED LIMITS DISCONNECTED				406190408
06/22/84	EPDC	BATT	N/A	BATTERY HAS GROUND
NO PROBLEM EXISTS ON DC BUS AT THIS				403150744
06/22/84	FP	PUMP	1-FP-P-2	LOW VOLTAGE ALARM LOCKED IN
CHECKED BATTERY VOLTAGE AND				406150600
06/23/84	SW	PUMP	1-SW-P-1CB	ELECTRICALLY DISCONNECT/RECONNECT
DISCONNECTED AND RECONNECTED				406131130
06/27/84	SW	PUMP	1-SW-P-1A	INSPECT AND CLEAN BATTERIES
CLEAN AND INSPECT BATTERIES				406201428

MAINTENANCE OF SAFETY RELATED SYSTEMS DURING OUTAGE OR REDUCED POWER PERIODS

UNIT NO. 2

ELECTRICAL MAINTENANCE

ELECTRICAL MAINTENANCE
UNIT NO. 2

June, 1984

None during this reporting period.

MAINTENANCE OF SAFETY RELATED SYSTEMS DURING OUTAGE OR REDUCED POWER PERIODS

UNIT NO. 1

INSTRUMENT MAINTENANCE

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

DEPT: INST

RETSERVDT	SYS	COMP	MARKNO	SUMMARY
LKPERF				MR
06/01/84	RM	DETECTOR	1-RM-162	REPLACE DETECTOR
REPLACED LOW RANGE AMPLIFIER				405271025
06/04/84	NI	METER	1-NI-42	METER INDICATES HIGHER THAN DRAWER
CHECKED AN ALLIGNED				406042005
06/05/84	GW	ANALIZ	1-GW-H2A-102	CHECKOUT+CALIBRATE
EWR SUBMITTED				402161233
06/05/84	SW	PITOT	FT-SW-105A+B	REMOVE PITOT FOR INSPECTION
BLEW DOWN SENSING LINES				401211117
06/05/84	RM	MONITOR	1-RM-128P	CK SOURCE WON'T MOVE NEEDLE
MONITOR WORKING AND PROBLEM WILL				403121635
06/05/84	GW	ANALYZ	1-GW-O2A-102B	SYSTEM LEAKS
THIS MR TO BE HANDLED BY EWR				403030315
06/05/84	GW	ANALYZER	H2A-GW-104	ISTALL ANALYZER MOD KIT
THIS MR TO BE WORKED EWR				310191003
06/05/84	CS	TRANS	1-CS-LT-101	TRANSMITTER FLANGE LEAKS
CLEANED CORROSION FOUND				405281842
06/05/84	CV	INDICAT	1-CV-FI-150	INDICATES FLOW WITH PUMPS OFF
CHECKED INDICATOR CHECKED SETTINGS				405231301
06/05/84	RM	MONITOR	1-RM-160	HI ALARM COMING IN EARLY
CALIBRATED ALARM CARD				405061430
06/05/84	RC	FLOW	1-RC-FI-435	FLOW INDICATED WITH C RCP SECURED
REPLACED TRANSMITTER AND RESCALLED				404201044
06/13/84	CS	LEVEL	1-CS-LI-100C	LEVEL DEVIATES FROM OTHER 3
CHECKED OUTPUT OF ISOLATOR ADJUSTED				406082340
06/13/84	RM	ALARM	1-RM-GW-102	SETPOINT < 7 PERCENT OF BAND
READJUSTED SETPOINTS				406090200
06/13/84	RM	ALARM	1-RM-CC-106	SETPOINT > 7 PERCENT OF BAND
READJUSTED SET POINTS				406080330
06/15/84	MS	MONITOR	1-MS-RM-126	ALARMS CONTINUOUSLY
REPLACED BOARD CHECKED SAT				406100653
06/20/84	RM	RECORDER	1-RM-RR-100	REPLACE INK PADS
REPLACED INK PADS				406131614
06/20/84	RM	MONITOR	1-RM-GW-130-1	APPARENT VOLTAGE SPIKE
NO PROBLEM FOUND				405232343
06/20/84	RC	MONITOR	1-RC-100B	UNABLE TO GET READINGS ON DISPLAY
FOUND DISPLAY OPERATIONAL CHECKED				406150903
06/21/84	CV	INSTR	1-CV-101A2	0.09 PSI DEVIATION@101A+101B
WORK NOT NECESSARY AS PER				406172243
06/23/84	SW	PUMP	1-SW-PS-9*10	LOW PRESSURE ALARM COMES IN
CHECKED SET POINTS				406182158
06/26/84	PR	AMP	1-PR-TI1-432H	AMPLIFIER FAILED REPLACE/CALIBRATE

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

DEPT: INST

RETSERVDT WKPERF	SYS	COMP	MARKNO	SUMMARY MR
REPLACED LOW LEVEL AND				406071158
06/26/84	SI	RELAY	1-SI-2A3	RELAY BAD
REPLACED RELAY				406111302
06/26/84	CH	INSTR	1-CH-L1-161	6 PERCENT DEVIATION@L1-161+L1-106
OBSERVED INDICATOR FOUND THEM				406191748
06/30/84	RC	ALARM	1-RC-PI-1-435	GIVES SPURIOUS ALARMS
VENTED TRANSMITTER ALARM DID NOT				406081555

MAINTENANCE OF SAFETY RELATED SYSTEMS DURING OUTAGE OR REDUCED POWER PERIODS

UNIT NO. 2

INSTRUMENT MAINTENANCE

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

DEPT: INST

RETSERVDT WKPERF	SYS	COMP	MARKNO	SUMMARY MR
06/13/84	MS	PRESS	2-MS-PI-2454	CHANNEL FAILED LOW
REPLACED AMP BOARD CALIBRATED			406130547	

NEWSUMRY:

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

Number	Unit	Title	Date Deviated	Date Rev. By SNSOC
FW-P-E/R1	2	Clean, Inspect, Lubricate & Insulation Test on Low Voltage Motors	6-5-84	6-21-84
OP 1.3	1	Unit Startup Operations	6-4-84 6-5-84	6-21-84
OP 2.2	1	Power Operation - Turbine	6-5-84	6-21-84
OP 7.7	1	Engineered Safeguard Tanks	6-5-84	6-21-84
OP 16	1	Spent Fuel Pit Makeup Cooling and Purification System	6-6-84	6-21-84
OP 23.2	1	Waste Gas Decay Tanks Operation	6-4-84 6-4-84	6-21-84
OP 34	1	Secondary Drain System	6-5-84	6-21-84
MOP 26.9	2	Removal of Vital Bus Sola Transformer 2-I	6-6-84	6-21-84
MOP 26.10	2	Return to Service of Vital Bus Sola Transformer 2-I	6-6-84	6-21-84
PT 2.5A (L-1-474)	1	L-1-474 Steam Generator Level	6-13-84	6-28-84
PT 22.3B	2	Diesel Generator No. 2 Monthly Test	6-5-84 6-6-84	6-21-84 6-21-84
PT 25.2	1	Testing of Service Water Valves to Recirc. Spray Heat Exchangers	6-6-84	6-21-84
PT 25.2	2	Testing of Service Water Valves to Recirc. Spray Heat Exchangers	6-5-84	6-21-84
PT 26.6	1, 2	Radiation Monitoring Equipment Background Check	6-5-84	6-21-84
MMP-C-HSS-123	1, 2	8" and 10" Grinnell Hydraulic Suppressors Dual Bleed Orifice	4-2-84 4-2-84 4-2-84	6-7-84
MMP-C-HSS-130	1, 2	Removal and Installation of Mechanical (PSA-¼ to PSA-35) and Hydraulic (1½" to 10") Snubber	3-29-84	6-7-84

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VIRGINIA ELECTRIC AND POWER COMPANY
RICHMOND, VIRGINIA 23261

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W. L. STEWART
VICE PRESIDENT
NUCLEAR OPERATIONS

July 12, 1984

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

Serial No. 420
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 June, 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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