VIRGINIA ELECTRIC AND POWER COMPANY
RICHMOND, VIRGINIA 23261

February 14, 1990

U. S. Nuclear Regulatory Commission
Attention: Document Control Desk
Washington, D. C. 20555

Serial No. 90-079
NO/RPC:vlh
Docket Nos. 50-280
50-281
License Nos. DPR-32
DPR-37

Gentlemen:

VIRGINIA ELECTRIC AND POWER COMPANY
SURRY POWER STATION UNITS 1 AND 2
MONTHLY OPERATING REPORT

Enclosed is the Monthly Operating Report for Surry Power Station Units 1 and 2 for the month of January 1990.

Very truly yours,

W. L. Stewart
Senior Vice President - Nuclear

Enclosure

cc: U. S. Nuclear Regulatory Commission
Region II
101 Marietta Street, N. W.
Suite 2900
Atlanta, Georgia 30323

Mr. W. E. Holland
NRC Senior Resident Inspector
Surry Power Station

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VIRGINIA ELECTRIC AND POWER COMPANY

SURRY POWER STATION

MONTHLY OPERATING REPORT

REPORT # 90-01

APPROVED: _____
Station Manager

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OPERATING DATA REPORT

DOCKET NO.: 50-280
DATE: 02/07/90
COMPLETED BY: L.A. Warren
TELEPHONE: (804)357-3184 x355

OPERATING STATUS

NOTES

1. Unit Name: Surry Unit 1
2. Reporting Period: JAN 01-31, 1990
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): 820
7. Maximum Dependable Capacity (Net MWe): 781
8. If Changes Occur in Capacity Ratings (Items Number 3 Through 7) Since Last Report, Give Reasons:
9. Power Level To Which Restricted, If Any (Net MWe):
10. Reason For Restrictions, If Any:

	THIS MONTH	YTD	CUMULATIVE
11. Hours In Reporting Period	744.0	744.0	150000.0
12. Number of Hours Reactor Was Critical	744.0	744.0	93494.8
13. Reactor Reserve Shutdown Hours	0	0	3774.5
14. Hours Generator On-Line	744.0	744.0	91567.2
15. Unit Reserve Shutdown Hours	0	0	3736.2
16. Gross Thermal Energy Generated (MWH)	1789748.0	1789748.0	212906551.0
17. Gross Electrical Energy Generated (MWH)	606545.0	606545.0	69151948.0
18. Net Electrical Energy Generated (MWH)	578112.0	578112.0	65589042.0
19. Unit Service Factor	100%	100%	61%
20. Unit Availability Factor	100%	100%	63.5%
21. Unit Capacity Factor (Using MDC Net)	99.5%	99.5%	56.5%
22. Unit Capacity Factor (Using DER Net)	98.6%	98.6%	55.5%
23. Unit Forced Outage Rate	0%	0	21.5

24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):

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

	FORECAST	ACHIEVED
INITIAL CRITICALITY		
INITIAL ELECTRICITY		
COMMERCIAL OPERATION		

OPERATING DATA REPORT

DOCKET NO.: 50-281
DATE: 02/07/90
COMPLETED BY: L.A. Warren
TELEPHONE: (804)357-3184 x355

OPERATING STATUS

NOTES

1. Unit Name: Surry Unit 2
2. Reporting Period: JAN 01-31, 1990
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): 820
7. Maximum Dependable Capacity (Net MWe): 781
8. If Changes Occur in Capacity Ratings (Items Number 3 Through 7) Since Last Report, Give Reasons:
9. Power Level To Which Restricted, If Any (Net MWe):
10. Reason For Restrictions, If Any:

	THIS MONTH	YTD	CUMULATIVE
11. Hours In Reporting Period	744.0	744.0	146880.0
12. Number of Hours Reactor Was Critical	744.0	744.0	91942.6
13. Reactor Reserve Shutdown Hours	0	0	328.1
14. Hours Generator On-Line	744.0	744.0	90392.9
15. Unit Reserve Shutdown Hours	0	0	0
16. Gross Thermal Energy Generated (MWH)	1694307.6	1694307.6	211304642.4
17. Gross Electrical Energy Generated (MWH)	572250.0	572250.0	68652849.0
18. Net Electrical Energy Generated (MWH)	544553.0	544553.0	65085512.0
19. Unit Service Factor	100%	100%	61.5%
20. Unit Availability Factor	100%	100%	61.5%
21. Unit Capacity Factor (Using MDC Net)	93.7%	93.7%	56.9%
22. Unit Capacity Factor (Using DER Net)	92.9%	92.9%	56.2%
23. Unit Forced Outage Rate	0%	0%	15.6%

24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):

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

	FORECAST	ACHIEVED
INITIAL CRITICALITY		
INITIAL ELECTRICITY		
COMMERCIAL OPERATION		

UNIT SHUTDOWN AND POWER REDUCTION (>20%)

REPORT MONTH: JANUARY 1990

DOCKET NO.: 50-280
UNIT NAME: Surry Unit 1
DATE: 02/07/90
COMPLETED BY: L.A. Warren
TELEPHONE: 804-357-3184 x355

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
	01/07/90	S	0	B	4 (manual power reduction)		SD	V	Ramped down to repair leak on 1-CN-207. Valve is associated with 1-FW-P-1A. The main feed pump, 1-FW-P-1A, was secured to facilitate valve repair.
	01/14/90	F	0	A	4 (manual power reduction)		SD	P	Ramped down upon securing 1-SD-P-1B due to fire in seal area of pump.
	01/21/90	S	0	B	4 (manual power reduction)		EL	FAN	Ramped down to replace belt on 'C' phase bus duct cooling fan.

(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 1 - Same Source

UNIT SHUTDOWN AND POWER REDUCTION (>20%)

REPORT MONTH: JANUARY 1990

DOCKET NO.: 50-281
UNIT NAME: Surry Unit 2
DATE: 02/07/90
COMPLETED BY: L.A. Warren
TELEPHONE: 804-357-3184 x355

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
	01/06/90	S	0	B	4 (manual power reduction)		SJ	P	Ramped down to remove 2-FW-P-1B from service for repairs.

(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 1 - Same Source

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO.: 50-280
UNIT NAME: Surry Unit 1
DATE: 02/07/90
COMPLETED BY: L.A. Warren
TELEPHONE: (804)357-3184 x355

MONTH: JANUARY 1990

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	788	17	782
2	791	18	789
3	788	19	789
4	785	20	787
5	791	21	734
6	792	22	787
7	560	23	788
8	791	24	789
9	791	25	790
10	789	26	791
11	788	27	790
12	786	28	791
13	787	29	789
14	763	30	789
15	761	31	787
16	767		

INSTRUCTIONS

On this format, list the average daily unit power level in MWe-Net for each day in the reporting month. Compute to the nearest whole megawatt.

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO.: 50-281
UNIT NAME: Surry Unit 2
DATE: 02/07/90
COMPLETED BY: L.A. Warren
TELEPHONE: (804)357-3184 x355

MONTH: JANUARY 1990

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	783	17	783
2	779	18	742
3	783	19	708
4	774	20	726
5	774	21	779
6	497	22	677
7	771	23	670
8	783	24	669
9	782	25	667
10	783	26	671
11	783	27	673
12	779	28	672
13	780	29	679
14	761	30	698
15	783	31	697
16	783		

INSTRUCTIONS

On this format, list the average daily unit power level in MWe-Net for each day in the reporting month. Compute to the nearest whole megawatt.

SUMMARY OF OPERATING EXPERIENCE

MONTH/YEAR: JANUARY 1990

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

01/01/90	0000	This reporting period began with the Unit at 100% power, 830 MW.
01/04/90	1141	Started rampdown for 1-ST-273; 2-FW-P-2 full flow test; 100% power, 830 MW.
	1249	Stopped ramp, 95.5% power, 790 MW.
	1618	Started ramp up, 1-ST-273 completed; 95% power, 785 MW.
	1712	Stopped ramp; 100% power, 830 MW.
01/07/90	0402	Started ramp down to remove 1-FW-P-1A in order to repair 1-CN-207; 100% power, 830 MW.
	0639	Stopped ramp; 60% power.
	0700	Started ramp down to decrease flow requirements for 1-FW-P-1B; 60% power.
	0730	Stopped ramp; 56% power, 445 MW.
	1936	Started ramp up, 1-CN-207 repaired and 1-FW-P-1A returned to service; 56% power, 440 MW.
01/12/90	2025	Started ramp down in order to prepare for testing of Ch-2 over power/over temperature delta temperature (OP/OT DT) (Ch-3 alarming intermittently); 100%, 825 MW.
	2037	Stopped ramp; 99% power, 820 MW.
01/13/90	0030	Ramped up after completion of test for Ch-2 OP/OT DT; 100% power, 825 MW.
01/14/90	2011	Started ramp down; fire occurred in the lower seal area of 1-SD-P-1B and as a result the pump was secured; 100% power, 830 MW.
	2018	Plant stable at 96% power.
	2039	Started ramp down to increase main feed pump suction pressure; 96% power.
	2108	Stopped ramp; 90% power 700 MW.

SUMMARY OF OPERATING EXPERIENCE

MONTH/YEAR: JANUARY 1990

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

01/14/90	2125	Started ramp down to increase main feed pump suction pressure to 425 psig for reset of pressure switch; 90% power, 700 MW.
	2140	Stopped ramp; 87% power, 670 MW.
	2150	Started ramp down to maintain main feed pump suction pressure while closing the condensate polisher bypass valve (1-CP-AOV-122).
	2225	Stopped ramp; 80% power, 620 MW.
01/15/90	0302	Started ramp up; 1-SD-P-1A placed in service; 80% power, 650 MW.
	0421	Stopped ramp; 100% power, 825 MW.
01/16/90	1156	Started ramp down to prepare for 1-PT-29.1.
	1252	Stopped ramp, 90% power, 745 MW.
	1817	Started ramp up; 1-PT-29.1 completed; 90% power, 745 MW.
	1901	Stopped ramp; 100% power, 825 MW.
01/21/90	0830	Started ramp down to allow belt replacement on 'C' isolated phase bus duct cooling fan; 100% power, 830 MW.
	1018	Stopped ramp; 62% power, 500 MW.
	1217	Started ramp up; belt on 'C' cooling fan replaced and fan returned to service; 63% power, 480 MW.
	1454	Stopped ramp; 100% power, 830 MW.
01/31/90	1108	Started ramp down to prepare for turbine driven auxiliary feed pump, 1-FW-P-2, operation; 100% power 825 MW.
	1120	Stopped ramp; 98% power, 800 MW.
	1315	Started ramp up; 1-FW-P2 secured; 98% power, 800 MW.
	1330	Stopped ramp; 100% power, 830 MW.
01/31/90	2400	This reporting period ended with the Unit at 100% power, 830 MW.

SUMMARY OF OPERATING EXPERIENCE

MONTH/YEAR: JANUARY 1990

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

01/01/90	0000	This reporting period began with the Unit at 100% power, 820 MW.
01/04/90	0950	Started ramp down to ensure $\leq$7% difference exists between 'A' loop over temperature delta temperature (OTDT) setpoint (STPT) and actual delta temperature (DT); 100% power, 825 MW.
	1005	Stopped ramp; 98% power, 815 MW.
01/05/90	1959	Started ramp up; adequate margin exists between OTDT STPT. and actual DT for 'A' loop; 98% power, 810 MW.
	2012	Stopped ramp; 100% power, 820 MW.
01/06/90	0104	Started ramp down to remove 2-FW-P-1B from service for repairs; 100% power, 820 MW.
	0344	Stopped ramp; 60% power, 510 MW.
	2230	Started ramp up; 2-FW-P-1B returned to service, waterboxes cleaned; 60% power, 500 MW.
01/07/90	0130	Stopped ramp; 99.5% power, 825 MW. Started ramp down because of receipt of 'B' loop Hi DT (protection) computer alarm; 99.5% power, 825 MW.
	0140	Stopped ramp; 98.3% power, 815 MW.
	1409	Started ramp up; 2-PT-2.1B completed on OTDT; 98.3% power, 810 MW.
	1422	Stopped ramp; 100% power, 820 MW.
01/08/90	2230	Started ramp down after placing Ch-1 OP/OT DT in trip. Channel placed in trip after being declared inoperable from slowly increasing TAVE indication; Ch-2 reading slightly high; 100% power, 820 MW. Stopped ramp; 99% power, 820 MW.
01/09/90	0533	Started slow power increase to 100%; Ch-1 OP/OT DT returned to service; 99% power, 820 MW.
01/09/90	0620	Stopped power increase; 100% power, 820 MW.

SUMMARY OF OPERATING EXPERIENCE

MONTH/YEAR: JANUARY 1990

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

01/12/90	1657	Started ramp down in preparation for auxiliary feed flow test, 2-ST-273; 100% power, 820 MW.
	1723	Stopped ramp; 95% power, 790 MW.
	2009	Started ramp up after flow test completed; 95% power, 790 MW.
	2030	Stopped ramp; 100% power, 820 MW.
01/13/90	2037	Started ramp down for implementation of EWR-90-021, DT setpoints; 100% power, 820 MW.
	2111	Stopped ramp; 95% power, 780 MW.
01/14/90	1447	Started ramp up after EWR-90-021 completed; 95% power, 785 MW.
	1519	Stopped ramp; 100% power, 820 MW.
01/18/90	1016	Started ramp down to prepare for 2-PT-29.1; 100% power, 820 MW.
	1102	Stopped ramp; 90% power, 755 MW. 2-PT-29.1 test of #2 LP intercept and reheat valves caused 2-MS-SV-206A to lift. As a result of the lift a crack developed in an associated 2" drain line.
01/20/90	1757	Started ramp up to complete checks of crossunder safties; 91% power, 750 MW.
	1855	Stopped ramp; 100% power, 825 MW.
01/21/90	2025	Started ramp down due to results of analysis on crossunder safety valves; all operable except 2-MS-SV-207A; 100% power, 820 MW.
	2040	Stopped ramp; 97% power, 800 MW.
01/22/90	0132	Started ramp down; initial calculations on crossunder safety indicate relieving capability of operable safety is approximately 86% of 100% steam flow. 97% power, 800 MW.
	0228	Stopped ramp; 85% power, 710 MW.
01/29/90	1722	Started ramp after determining satisfactory calibration on 2-MS-SV-206B; 85% power, 715 MW.

SUMMARY OF OPERATING EXPERIENCE

MONTH/YEAR: JANUARY 1990

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

01/31/90 2400	This reporting period ended with the Unit at 89% power, 735 MW.

FACILITY CHANGES THAT DID NOT REQUIRE NRC APPROVAL

MONTH/YEAR: JANUARY 1990

EWR-90-003 ENGINEERING WORK REQUEST UNITS 1&2 01/13/90
(Safety Evaluation #90-0004)

This Engineering Work Request installed permanent audio radiological postings at the entrance to the auxiliary building basement.

This does not constitute an unreviewed safety question in that this is a health physics posting device which is non-safety related and does not affect any safety related systems. This change does not increase the probability or consequences of any accidents as analyzed in the UFSAR, nor does it change the basis for any technical specifications.

EWR-89-716 ENGINEERING WORK REQUEST UNITS 1&2 01/18/90
(Safety Evaluation #N89-0042)

This Engineering Work Request added filters to the reactor coolant system temperature channels, resulting in an additional time delay in both delta-T and TAVG signals.

The additional time delay does not exceed the allowable limits of the existing safety analysis. Therefore, an unreviewed safety question does not exist.

S1-AC-90-0119 ADMINISTRATIVE CONTROL 01/19/90
(Safety Evaluation #90-0008)

Administrative control will be established over 1-SW-124, the manual isolation to TCV-SW-108C, while the normal temperature control valve is under repair.

By maintaining control of the manual valve the lube oil temperature can be maintained within required ranges and allow the charging pump to operate per design. Therefore an unreviewed safety question is not created.

S1-AC-90-0122 ADMINISTRATIVE CONTROL 01/22/90
(Safety Evaluation #90-0009)

This administrative control documents that the dike at the emergency switchgear room door will temporarily be removed, a flood watch will be placed at the door and a roving flood watch will walk down the turbine building while the dike is down. Administrative measures are provided for reinstallation of the dikes if flooding is observed.

The removal of this dike will not adversely affect safety related equipment or create an unanalyzed condition since the administrative measures compensate.

FACILITY CHANGES THAT DID NOT REQUIRE NRC APPROVAL

MONTH/YEAR: JANUARY 1990

SCAFFOLD REQUEST UNIT 1 01/22/90
(Safety Evaluation #90-0010)

Temporary scaffold was erected to support the maintenance on damper/actuator mark #01-VSP-AOD-111A for the containment purge exhaust.

The temporary scaffold is required for safe working conditions. Installation of scaffold constructed per SUADM-ADM-07 has a high confidence level against failure and was reviewed for effects on accident analyses and equipment operability/function. It is thus concluded that assumptions, bases and probabilities of accident analyses and equipment malfunctions are not affected.

SCAFFOLD REQUEST UNIT 1 01/22/90
(Safety Evaluation #90-0011)

Temporary scaffold was erected to support the maintenance work on damper/actuator for fuel building filter exhaust damper.

The temporary scaffold is required for safe working conditions. Installation of scaffold constructed per SUADM-ADM-07 has a high confidence level against failure and was reviewed for effects on accident analyses and equipment operability/function. It is thus concluded that assumptions, bases and probabilities of accident analyses and equipment malfunctions are not affected.

SCAFFOLD REQUEST UNIT 1 01/22/90
(Safety Evaluation #90-0012)

Temporary scaffold was erected to support the maintenance work on damper/actuator mark # 01-VSP-AOD-107A for the auxiliary building.

The temporary scaffold is required for safe working conditions. Installation of scaffold constructed per SUADM-ADM-07 has a high confidence level against failure and was reviewed for effects on accident analyses and equipment operability/function. It is thus concluded that assumptions, bases and probabilities of accident analyses and equipment malfunctions are not affected.

SCAFFOLD REQUEST UNIT 1 01/22/90
(Safety Evaluation #90-0013)

Temporary scaffold was erected to support the maintenance work on damper/actuator mark #01-VSP-AOD-109A for general area exhaust fan discharge.

The temporary scaffold is required for safe working conditions. Installation of scaffold constructed per SUADM-ADM-07 has a high confidence level against failure and was reviewed for effects on accident analyses and equipment operability/function. It is thus concluded that assumptions, bases and probabilities of accident analyses and equipment malfunctions are not affected.

SCAFFOLD REQUEST UNIT 1 01/25/90
(Safety Evaluation #90-0015)

Temporary scaffold was erected to support the maintenance work on an auxiliary steam line which has a leak and is causing airborne contamination.

The temporary scaffold is required for safe working conditions. Installation of scaffold constructed per SUADM-ADM-07 has a high confidence level against failure and was reviewed for effects on accident analyses and equipment operability/function. It is thus concluded that assumptions, bases and probabilities of accident analyses and equipment malfunctions are not affected.

S1-AC-89-1227 ADMINISTRATIVE CONTROL UNIT 1 01/25/90
(Safety Evaluation #90-0016)

Administrative control will be placed on 1-IA-446 and 1-IA-447 to ensure that containment integrity can be maintained.

The administrative control established on 1-IA-446 and 1-IA-447 in accordance with SUADM-O-26 ensures the ability to maintain containment integrity as defined in technical specifications. The valves will be closed immediately upon notification by the main control room. In addition, control over the valves will ensure the ability to maintain the containment partial pressure within the limits established by Technical Specification 3.8. Therefore, an unreviewed safety question is not created.

S1-AC-89-1228 ADMINISTRATIVE CONTROL UNIT 1 01/25/90
(Safety Evaluation #90-0017)

Administrative control will be placed on 2-IA-446 and 2-IA-447 to ensure that containment integrity can be maintained.

The administrative control established on 2-IA-446 and 2-IA-447 in accordance with SUADM-O-26 ensures the ability to maintain containment integrity as defined in technical specifications. The valves will be closed immediately upon notification by the main control room. In addition, control over the valves will ensure the ability to maintain the containment partial pressure within the limits established by Technical Specification 3.8. Therefore, an unreviewed safety question is not created.

FACILITY CHANGES THAT DID NOT REQUIRE NRC APPROVAL

MONTH/YEAR: JANUARY 1990

SCAFFOLD REQUEST UNIT 1 — 01/30/90

(Safety Evaluation #90-0022) Temporary scaffold was erected to support the maintenance work on damper/actuator mark #01-VSP-AOD-103A for decon building filter exhaust damper.

The temporary scaffold is required for safe working conditions. Installation of scaffold constructed per SUADM-ADM-07 has a high confidence level against failure and was reviewed for effects on accident analyses and equipment operability/function. It is thus concluded that assumptions, bases and probabilities of accident analyses and equipment malfunctions are not affected.

EWR-89-681 ENGINEERING WORK REQUEST UNITS 1 & 2 — 01/31/90

Change request to UFSAR Sec. 9.10.4.19
(Safety Evaluation #N89-0025)

This EWR evaluated permanently leaving the Emergency Diesel Generator (EDG) rooms air supply louvers open and making a change to the UFSAR. This change removes the temporary modifications which covered keeping these louvers open and makes permanent design changes disconnecting the actuation mechanism.

The loss of the EDG from overheating was considered and since the air louvers will be maintained opened, the EDG will continue to operate as designed. Therefore, an unreviewed safety question does not exist.

PROCEDURE OR METHOD OF OPERATION CHANGES THAT DID NOT REQUIRE NRC APPROVAL

MONTH/YEAR: JANUARY 1990

NONE DURING THIS REPORTING PERIOD

TESTS AND EXPERIMENTS THAT DID NOT REQUIRE NRC APPROVAL

MONTH/YEAR: JANUARY 1990

NONE DURING THIS REPORTING PERIOD

VIRGINIA POWER
SURRY POWER STATION
CHEMISTRY REPORT

MONTH/YEAR: JANUARY 1990

PRIMARY COOLANT ANALYSIS	UNIT NO. 1			UNIT NO. 2		
	MAX.	MIN.	AVG.	MAX.	MIN.	AVG.
Gross Radioact., µCi/ml	8.53E-1	6.61E-2	7.34E-1	2.71E-1	167E-1	2.13E-1
Suspended Solids, ppm	0.0	0.0	0.0	0.0	0.0	0.0
Gross Tritium, µCi/ml	1.89E-1	1.51E-1	1.66E-1	3.99E-1	2.88E-1	3.36E-1
Iodine-131, µCi/ml	1.44E-2	3.02E-3	6.33E-3	1.03E-3	3.11E-4	5.48E-4
Iodine-131/Iodine-133	0.20	0.09	0.13	0.25	0.08	0.12
Hydrogen, cc/kg	31.5	25.9	28.4	34.5	27.5	31.2
Lithium, ppm	2.34	2.06	2.19	2.33	2.11	2.22
Boron - 10, ppm*	107	85	93	191	176	180
Oxygen, (DO), ppm	0.005	0.005	0.005	0.005	0.005	0.005
Chloride, ppm	0.010	0.006	0.007	0.010	0.006	0.007
pH @ 25 degree Celsius	7.05	6.77	6.90	6.67	6.40	6.53

* Boron - 10 = Total Boron x 0.196

REMARKS:

UNIT ONE: Excess letdown was placed in service on 1/10 at 0928 hrs. to perform work on normal letdown; normal letdown was returned to service on 1/11 at 1059 hrs. The following lithium additions were made: 1/7, 250 gm; 1/8, 420 gm; 1/10, 410 gm; 1/15, 450 gm; 1/16, 400 gm; 1/19, 480 gm; 1/21, 489 gm; 1/27, 437 gm. Total addition was 3317 gms.

UNIT TWO: Cation bed was placed in service on 1/16 from 0540 hrs. to 0710 hrs. No lithium additions were made during January.

UNIT 1 & 2 FUEL HANDLING DATE: JANUARY 990

NEW OR SPENT FUEL SHIPMENT #	DATE SHIPPED OR RECEIVED	NUMBER OF ASSEMBLIES PER SHIPMENT	ASSEMBLY NUMBER	ANSI NUMBER	INITIAL ENRICHMENT	NEW OR SPENT FUEL SHIPPING CASK ACTIVITY LEVEL

NONE DURING THIS REPORTING PERIOD

DESCRIPTION OF PERIODIC TEST(S) WHICH WERE NOT COMPLETED WITHIN THE TIME LIMITS SPECIFIED IN TECHNICAL SPECIFICATIONS

MONTH/YEAR: JANUARY 1990

NONE DURING THIS REPORTING PERIOD