VIRGINIA ELECTRIC AND POWER COMPANY
RICHMOND, VIRGINIA 23261

May 7, 2001

U. S. Nuclear Regulatory Commission
Attention: Document Control Desk
Washington, D.C. 20555-0001

Serial No.	01-288
SPS Lic/JSA	R0
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

The Monthly Operating Report for Surry Power Station Units 1 and 2 for the month of April 2001 is provided in the attachment.

If you have any questions or require additional information, please contact us.

Very truly yours,

R. H. Blount II, Site Vice President
Surry Power Station

Attachment

Commitments made by this letter: None

cc: United States Nuclear Regulatory Commission
Region II
Sam Nunn Atlanta Federal Center
61 Forsyth Street, SW, Suite 23 T85
Atlanta, Georgia 30303-8931

Mr. R. A. Musser
NRC Senior Resident Inspector
Surry Power Station

IE24

VIRGINIA ELECTRIC AND POWER COMPANY
SURRY POWER STATION
MONTHLY OPERATING REPORT
REPORT NO. 01- 04

Approved: _____ 5/7/01
Site Vice President Date

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OPERATING DATA REPORT

Docket No.: 50-280
Date: 05/01/01
Completed By: R. Stief
Telephone: (757) 365-2486

1. Unit Name: ..... Surry Unit 1
2. Reporting Period: ..... April 2001
3. Licensed Thermal Power (MWt): 2546
4. Nameplate Rating (Gross MWe): 847.5
5. Design Electrical Rating (Net MWe): 788
6. Maximum Dependable Capacity (Gross MWe): 842
7. Maximum Dependable Capacity (Net MWe): 810

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. Reasons For Restrictions, If Any:

		This Month	Year-To-Date	Cumulative
11.	Hours in Reporting Period	719.0	2879.0	248567.0
12.	Hours Reactor Was Critical	719.0	2879.0	181183.1
13.	Reactor Reserve Shutdown Hours	0.0	0.0	3774.5
14.	Hours Generator On-Line	719.0	2879.0	178599.7
15.	Unit Reserve Shutdown Hours	0.0	0.0	3736.2
16.	Gross Thermal Energy Generated (MWH)	1830085.2	7326145.6	424178893.4
17.	Gross Electrical Energy Generated (MWH)	612589.0	2450328.0	139388731.0
18.	Net Electrical Energy Generated (MWH)	593771.0	2368535.0	133019763.0
19.	Unit Service Factor	100.0%	100.0%	71.9%
20.	Unit Availability Factor	100.0%	100.0%	73.4%
21.	Unit Capacity Factor (Using MDC Net)	102.0%	101.6%	68.5%
22.	Unit Capacity Factor (Using DER Net)	104.8%	104.4%	67.9%
23.	Unit Forced Outage Rate	0.0%	0.0%	13.0%

24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):
October 2001
Type and duration of scheduled shutdowns are no longer provided.
[Reference: Letter S/N 00-069, dated February 7, 2000]

25. If Shut Down at End of Report Period, Estimated Date of Start-up: Estimated start-up dates are no longer provided. [Reference: Letter S/N 00-069, dated February 7, 2000]

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: 05/01/01
Completed By: R. Stief
Telephone: (757) 365-2486

1. Unit Name: ..... Surry Unit 2
2. Reporting Period: ..... April 2001
3. Licensed Thermal Power (MWt): 2546
4. Nameplate Rating (Gross MWe): 847.5
5. Design Electrical Rating (Net MWe): 788
6. Maximum Dependable Capacity (Gross MWe): 847
7. Maximum Dependable Capacity (Net MWe): 815

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. Reasons For Restrictions, If Any:

		This Month	Year-To-Date	Cumulative
11.	Hours in Reporting Period	719.0	2879.0	245448.0
12.	Hours Reactor Was Critical	719.0	2841.9	178430.8
13.	Reactor Reserve Shutdown Hours	0.0	0.0	328.1
14.	Hours Generator On-Line	719.0	2834.8	176245.9
15.	Unit Reserve Shutdown Hours	0.0	0.0	0.0
16.	Gross Thermal Energy Generated (MWH)	1830390.7	7184323.2	419405884.1
17.	Gross Electrical Energy Generated (MWH)	615405.0	2416315.0	137826447.0
18.	Net Electrical Energy Generated (MWH)	594125.0	2333611.0	131569918.0
19.	Unit Service Factor	100.0%	98.5%	71.8%
20.	Unit Availability Factor	100.0%	98.5%	71.8%
21.	Unit Capacity Factor (Using MDC Net)	101.4%	99.5%	68.4%
22.	Unit Capacity Factor (Using DER Net)	104.9%	102.9%	68.0%
23.	Unit Forced Outage Rate	0.0%	1.5%	10.4%

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

Type and duration of scheduled shutdowns are no longer provided.
[Reference: Letter S/N 00-069, dated February 7, 2000]

25. If Shut Down at End of Report Period, Estimated Date of Start-up: Estimated start-up dates are no longer provided. [Reference: Letter S/N 00-069, dated February 7, 2000]

26. Unit In Test Status (Prior to Commercial Operation):

	FORECAST	ACHIEVED
INITIAL CRITICALITY		
INITIAL ELECTRICITY		
COMMERCIAL OPERATION		

UNIT SHUTDOWN AND POWER REDUCTION
(EQUAL TO OR GREATER THAN 20%)

REPORT MONTH: April 2001

Docket No.: 50-280
Unit Name: Surry Unit 1
Date: 05/01/01
Completed by: R. Stief
Telephone: (757) 365-2486

None during the Reporting Period

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(1)
F: Forced
S: Scheduled

(2)
REASON:
A - Equipment Failure (Explain)
B - Maintenance or Test
C - Refueling
D - Regulatory Restriction
E - Operator Training & Licensing 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
(EQUAL TO OR GREATER THAN 20%)

REPORT MONTH: April 2001

Docket No.: 50-281
Unit Name: Surry Unit 2
Date: 05/01/01
Completed by: R. Stief
Telephone: (757) 365-2486

None during the Reporting Period

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(1)
F: Forced
S: Scheduled

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

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METHOD:
1 - Manual
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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: 05/01/01
Completed by: R. Stief
Telephone: (757) 365-2486

MONTH: April 2001

Day	Average Daily Power Level (MWe - Net)	Day	Average Daily Power Level (MWe - Net)
1	791	17	827
2	824	18	827
3	823	19	826
4	822	20	829
5	822	21	829
6	823	22	828
7	823	23	827
8	824	24	828
9	824	25	829
10	824	26	827
11	824	27	829
12	822	28	828
13	825	29	828
14	826	30	828
15	827		
16	827		

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: 05/01/01
Completed by: R. Stief
Telephone: (757) 365-2486

MONTH: April 2001

Day	Average Daily Power Level (MWe - Net)	Day	Average Daily Power Level (MWe - Net)
1	792	17	827
2	827	18	827
3	827	19	827
4	827	20	825
5	827	21	827
6	827	22	827
7	827	23	826
8	825	24	826
9	823	25	826
10	824	26	827
11	824	27	827
12	827	28	827
13	826	29	827
14	827	30	826
15	827		
16	827		

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: April 2001

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

UNIT ONE:

04/01/01	0000	Unit started the month at 100% / 851 MWe.
04/30/01	2400	Unit finished the month at 100% / 853 MWe.

UNIT TWO:

04/01/01	0000	Unit started the month at 100% / 855 MWe.
04/30/01	2400	Unit finished the month at 100% / 855 MWe.

FACILITY CHANGES THAT DID NOT REQUIRE NRC APPROVAL

MONTH/YEAR: April 2001

DCP 98-050 — **Design Change Package** — 03/25/99
(Safety Evaluation 99-017)

Design Change Package 98-050, "SW Emergency Service Water Pump Modification" mounted an additional mass onto the angle drives of the three Emergency Service Water Pumps in order to alter the dynamic response of the pumps to reduce vibration levels.

FS 01-005 — **UFSAR Change Request** — 04/05/01
(Safety Evaluation 01-020)

UFSAR Change Request FS 01-005 revises the description of the transient analysis of the loss of normal feedwater and loss of AC power to station auxiliaries accidents in the Surry UFSAR.

FS 01-008 — **UFSAR Change Request** — 04/05/01
(Safety Evaluation 01-021)

UFSAR Change Request FS 01-008 describes the reanalysis of the Large Break Loss of Coolant Accident using the 1981 Westinghouse Evaluation Model with BASH and as committed to the NRC in Letter Serial No. 99-558.

TM S1-01-004 — **Temporary Modification** — 04/27/01
(Safety Evaluation 01-024)

Recent oil samples for Emergency Diesel Generator (EDG) 3 showed elevated levels of silver in the oil. Temporary Modification S1-01-004 allows the installation of temporary gauge connections to the discharge of the main oil pump and the piston cooling pump of EDG 3. As part of the root cause evaluation, the connections will be used to monitor pressure during start up and initial run of the diesel.

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

MONTH/YEAR: April 2001

1 & 2-OP-RC-011 — **Operating Procedure** — 04/05/01
(Safety Evaluation 01-022)

Operating Procedures 1 & 2-OP-RC-011, "Pressurizer Relief Tank Operations", were revised to install a jumper and moisture trap that will continuously vent the pressurizer relief tank to control the influx of gases from leaking safety and relief valves.

0-TOP-VS-001 — **Temporary Operating Procedure** — 04/16/01
(Safety Evaluation 01-023)

Temporary Operating Procedure 0-TOP-VS-001, "Auxiliary Ventilation Filter Train Test to Validate DCP-00-066", was written to validate the adequacy of suction ductwork, components and filter housing following modifications made to the safety related 58 fans per design change package (DCP) 00-066. This procedure will also determine total flow of the 58 fans while operating in parallel.

TESTS AND EXPERIMENTS THAT DID NOT REQUIRE NRC APPROVAL

MONTH/YEAR: April 2001

None during the Reporting Period

CHEMISTRY REPORT

MONTH/YEAR: April 2001

Primary Coolant Analysis	Unit No. 1			Unit No. 2		
	Max.	Min.	Avg.	Max.	Min.	Avg.
Gross Radioactivity, μCi/ml	4.14E-1	1.74E-1	2.65E-1	3.84E-1	1.80E-1	2.52E-1
Suspended Solids, ppm	-	-	-	-	-	-
Gross Tritium, μCi/ml	1.02E+0	9.59E-1	9.93E-1	8.78E-1	7.65E-1	8.29E-1
I^{131}, μCi/ml	3.00E-4	1.79E-4	2.44E-4	1.34E-4	6.03E-5	1.01E-4
I^{131}/I^{133}	0.09	0.06	0.07	0.11	0.05	0.08
Hydrogen, cc/kg	41.3	37.4	39.3	36.6	34.5	35.2
Lithium, ppm	2.29	2.1	2.21	2.32	2.14	2.25
Boron - 10, ppm*	112.3	93.3	102.7	209.9	196	202.9
Oxygen, (DO), ppm	≤ 0.005	≤ 0.005	≤ 0.005	≤ 0.005	≤ 0.005	≤ 0.005
Chloride, ppm	0.008	0.006	0.008	0.005	0.004	0.005
pH @ 25 degree Celsius	7.04	6.72	6.91	6.59	6.34	6.47

* Boron - 10 = Total Boron x 0.196

Comments:

None

FUEL HANDLING
UNITS 1 & 2

MONTH/YEAR: April 2001

New Fuel Shipment or Cask No.	Date Stored or Received	Number of Assemblies per Shipment	Assembly Number	ANSI Number	Initial Enrichment	New or Spent Fuel Shipping Cask Activity

None during the Reporting Period

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

MONTH/YEAR: April 2001

None during the Reporting Period