

VIRGINIA ELECTRIC AND POWER COMPANY  
RICHMOND, VIRGINIA 23261

April 12, 2001

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

Serial No. 01-204  
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 March 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

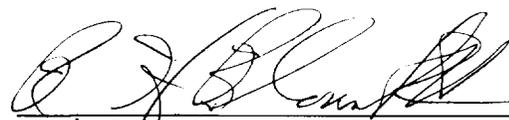
cc: United States Nuclear Regulatory Commission  
Region II  
Sam Nunn Atlanta Federal Center  
61 Forsyth Street, SW, Suite 23 T85  
Atlanta, Georgia 30303-8931

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

JE24

**VIRGINIA ELECTRIC AND POWER COMPANY  
SURRY POWER STATION  
MONTHLY OPERATING REPORT  
REPORT NO. 01- 03**

Approved:

  
Site Vice President

4/12/01  
Date

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**OPERATING DATA REPORT**

Docket No.: 50-280  
 Date: 04/02/01  
 Completed By: R. Stief  
 Telephone: (757) 365-2486

- 1. Unit Name: ..... Surry Unit 1
- 2. Reporting Period: ..... March 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:

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9. Power Level To Which Restricted, If Any (Net MWe): \_\_\_\_\_

10. Reasons For Restrictions, If Any: \_\_\_\_\_

	<u>This Month</u>	<u>Year-To-Date</u>	<u>Cumulative</u>
11. Hours in Reporting Period	744.0	2160.0	247848.0
12. Hours Reactor Was Critical	744.0	2160.0	180464.1
13. Reactor Reserve Shutdown Hours	0.0	0.0	3774.5
14. Hours Generator On-Line	744.0	2160.0	177880.7
15. Unit Reserve Shutdown Hours	0.0	0.0	3736.2
16. Gross Thermal Energy Generated (MWH)	1893551.9	5496060.4	422348808.2
17. Gross Electrical Energy Generated (MWH)	633276.0	1837739.0	138776142.0
18. Net Electrical Energy Generated (MWH)	612288.0	1774764.0	132425992.0
19. Unit Service Factor	100.0%	100.0%	71.8%
20. Unit Availability Factor	100.0%	100.0%	73.3%
21. Unit Capacity Factor (Using MDC Net)	101.6%	101.4%	68.4%
22. Unit Capacity Factor (Using DER Net)	104.4%	104.3%	67.8%
23. Unit Forced Outage Rate	0.0%	0.0%	13.1%

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

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

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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):

	<u>FORECAST</u>	<u>ACHIEVED</u>
INITIAL CRITICALITY	_____	_____
INITIAL ELECTRICITY	_____	_____
COMMERCIAL OPERATION	_____	_____

**OPERATING DATA REPORT**

Docket No.: 50-281  
 Date: 04/02/01  
 Completed By: R. Stief  
 Telephone: (757) 365-2486

- 1. Unit Name: ..... Surry Unit 2
- 2. Reporting Period: ..... March 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:

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9. Power Level To Which Restricted, If Any (Net MWe): \_\_\_\_\_

10. Reasons For Restrictions, If Any: \_\_\_\_\_

	<u>This Month</u>	<u>Year-To-Date</u>	<u>Cumulative</u>
11. Hours in Reporting Period	744.0	2160.0	244729.0
12. Hours Reactor Was Critical	744.0	2122.9	177711.8
13. Reactor Reserve Shutdown Hours	0.0	0.0	328.1
14. Hours Generator On-Line	744.0	2115.8	175526.9
15. Unit Reserve Shutdown Hours	0.0	0.0	0.0
16. Gross Thermal Energy Generated (MWH)	1893857.4	5353932.5	417575493.4
17. Gross Electrical Energy Generated (MWH)	637590.0	1800910.0	137211042.0
18. Net Electrical Energy Generated (MWH)	616064.0	1739486.0	130975793.0
19. Unit Service Factor	100.0%	98.0%	71.7%
20. Unit Availability Factor	100.0%	98.0%	71.7%
21. Unit Capacity Factor (Using MDC Net)	101.6%	98.8%	68.3%
22. Unit Capacity Factor (Using DER Net)	105.1%	102.2%	67.9%
23. Unit Forced Outage Rate	0.0%	2.0%	10.5%

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):

	<u>FORECAST</u>	<u>ACHIEVED</u>
INITIAL CRITICALITY	_____	_____
INITIAL ELECTRICITY	_____	_____
COMMERCIAL OPERATION	_____	_____

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

**REPORT MONTH:** March 2001

Docket No.: 50-280  
Unit Name: Surry Unit 1  
Date: 04/02/01  
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:** March 2001

Docket No.: 50-281  
Unit Name: Surry Unit 2  
Date: 04/02/01  
Completed by: R. Stief  
Telephone: (757) 365-2486

None during the Reporting Period

---

(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: 04/02/01  
 Completed by: R. Stief  
 Telephone: (757) 365-2486

MONTH: March 2001

Day	Average Daily Power Level (MWe - Net)	Day	Average Daily Power Level (MWe - Net)
1	824	17	822
2	824	18	824
3	824	19	824
4	825	20	823
5	821	21	823
6	822	22	824
7	822	23	824
8	824	24	824
9	824	25	825
10	824	26	824
11	824	27	823
12	822	28	823
13	823	29	823
14	820	30	824
15	818	31	824
16	818		

**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: 04/02/01  
 Completed by: R. Stief  
 Telephone: (757) 365-2486

MONTH: March 2001

Day	Average Daily Power Level (MWe - Net)	Day	Average Daily Power Level (MWe - Net)
1	829	17	829
2	829	18	828
3	829	19	828
4	829	20	828
5	828	21	827
6	828	22	828
7	829	23	828
8	829	24	827
9	828	25	828
10	827	26	827
11	827	27	827
12	827	28	827
13	826	29	826
14	831	30	827
15	832	31	827
16	832		

**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:** March 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:**

03/01/01	0000	Unit started the month at 100% / 852 MWe.
03/31/01	2400	Unit finished the month at 100% / 851 MWe.

**UNIT TWO:**

03/01/01	0000	Unit started the month at 100% / 860 MWe.
03/31/01	2400	Unit finished the month at 100% / 855 MWe.

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

**MONTH/YEAR:** March 2001

TM S1-01-003	<b>Temporary Modification</b> (Safety Evaluation 01-014)	03/09/01
	Temporary Modification S1-01-003 combines Temporary Modifications S1-00-22 and S1-00-30 to provide improved airflow distribution in the Control Room computer room around the P-250 computer.	
TM S1-01-002	<b>Temporary Modification</b> (Safety Evaluation 01-017)	03/22/01
	Temporary Modification S1-01-002 maintains automatic logic functions during the time the test switch in the Train "B" SI logic circuit is replaced.	
FS 01-007	<b>UFSAR Change Request</b> (Safety Evaluation 01-018)	03/28/01
	As a result of the Design Basis Document review, UFSAR Change Request FS 01-007 corrects the statements in the UFSAR that discuss Surry's Instrument Air System. These changes are to enhance clarity and do not alter the technical basis of the UFSAR description. The changes also do not affect the Instrument Air System or any of its component's operation or performance.	

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

**MONTH/YEAR:** March 2001

0-TOP-BC-5131

**Temporary Operating Procedure**  
(Safety Evaluation 01-013)

03/01/01

Temporary Operating Procedure 0-TOP-BC-5131, "Makeup From 1-CN-TK-2 to Unit 1 and Unit 2 BC Systems", was written to allow filling the Unit 1 and Unit 2 Bearing Cooling (BC) systems simultaneously from the Unit 1 condensate storage tank flowing through either the 1-BC-P-2 recirculation line or supply line.

**TESTS AND EXPERIMENTS THAT DID NOT REQUIRE NRC APPROVAL**

**MONTH/YEAR:** March 2001

None during the Reporting Period

**CHEMISTRY REPORT**

MONTH/YEAR: March 2001

Primary Coolant Analysis	Unit No. 1			Unit No. 2		
	Max.	Min.	Avg.	Max.	Min.	Avg.
Gross Radioactivity, $\mu\text{Ci/ml}$	4.06E-1	2.00E-1	2.78E-1	3.95E-1	1.91E-1	2.76E-1
Suspended Solids, ppm	$\leq 0.010$					
Gross Tritium, $\mu\text{Ci/ml}$	1.03E+0	8.18E-1	9.67E-1	6.72E-1	4.26E-1	6.02E-1
$^{131}\text{I}$ , $\mu\text{Ci/ml}$	3.10E-4	1.41E-3	2.13E-4	1.39E-4	6.59E-5	1.07E-4
$^{131}\text{I}/^{133}\text{I}$	0.1	0.04	0.07	0.11	0.08	0.09
Hydrogen, cc/kg	41.3	39.3	40.5	36.4	34.4	35.4
Lithium, ppm	2.28	2.09	2.19	2.35	2.17	2.25
Boron - 10, ppm*	131.1	112.9	122.6	223.8	209.9	217
Oxygen, (DO), ppm	$\leq 0.005$					
Chloride, ppm	0.009	0.008	0.009	0.005	0.004	0.005
pH @ 25 degree Celsius	6.98	6.75	6.86	6.56	6.38	6.48

\* Boron - 10 = Total Boron x 0.196

Comments:

None

**FUEL HANDLING  
UNITS 1 & 2**

**MONTH/YEAR:** March 2001

<u>New Fuel Shipment or Cask No.</u>	<u>Date Stored or Received</u>	<u>Number of Assemblies per Shipment</u>	<u>Assembly Number</u>	<u>ANSI Number</u>	<u>Initial Enrichment</u>	<u>New or Spent Fuel Shipping Cask Activity</u>
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None during the Reporting Period

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

**MONTH/YEAR:** March 2001

None during the Reporting Period