

VIRGINIA ELECTRIC AND POWER COMPANY
RICHMOND, VIRGINIA 23261

March 14, 2003

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

Serial No. 03-149
SPS Lic/JSA R0
Docket Nos. 50-280
50-281
License Nos. DPR-32
DPR-37

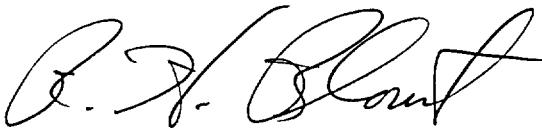
Gentlemen:

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 February 2003 is provided in the attachment.

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

Very truly yours,



Richard H. Blount,
Site Vice President
Surry Power Station

Attachment

Commitments made by this letter: None

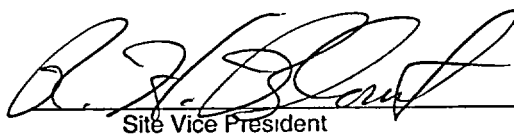
cc: United States Nuclear Regulatory Commission
Region II
Sam Nunn Atlanta Federal Center
61 Forsyth Street, SW, Suite 23 T85
Atlanta, Georgia 30303-8931

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. 03-02**

Approved:



Site Vice President

3/14/03
Date

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OPERATING DATA REPORT

Docket No.: 50-280
 Date: 03/03/03
 Completed By: R. Stief
 Telephone: (757) 365-2486

- 1. Unit Name: Surry Unit 1
- 2. Reporting Period: February 2003
- 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: _____

	<u>This Month</u>	<u>Year-To-Date</u>	<u>Cumulative</u>
11. Hours in Reporting Period	672.0	1416.0	264624.0
12. Hours Reactor Was Critical	672.0	1125.7	195647.3
13. Reactor Reserve Shutdown Hours	0.0	0.0	3774.5
14. Hours Generator On-Line	672.0	1072.3	192934.5
15. Unit Reserve Shutdown Hours	0.0	0.0	3736.2
16. Gross Thermal Energy Generated (MWH)	1709384.4	2643175.7	460149492.4
17. Gross Electrical Energy Generated (MWH)	571701.0	880103.0	151385427.0
18. Net Electrical Energy Generated (MWH)	551814.0	847843.0	144590164.0
19. Unit Service Factor	100.0%	75.7%	72.9%
20. Unit Availability Factor	100.0%	75.7%	74.3%
21. Unit Capacity Factor (Using MDC Net)	101.4%	73.9%	69.8%
22. Unit Capacity Factor (Using DER Net)	104.2%	76.0%	69.3%
23. Unit Forced Outage Rate	0.0%	24.3%	12.3%

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

April 2003

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	_____	_____

OPERATING DATA REPORT

Docket No.: 50-281
 Date: 03/03/03
 Completed By: R. Stief
 Telephone: (757) 365-2486

- 1. Unit Name: Surry Unit 2
- 2. Reporting Period: February 2003
- 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: _____

		<u>This Month</u>	<u>Year-To-Date</u>	<u>Cumulative</u>
11.	Hours in Reporting Period	672.0	1416.0	261505.0
12.	Hours Reactor Was Critical	672.0	1353.1	193236.5
13.	Reactor Reserve Shutdown Hours	0.0	0.0	328.1
14.	Hours Generator On-Line	672.0	1328.3	190912.7
15.	Unit Reserve Shutdown Hours	0.0	0.0	0.0
16.	Gross Thermal Energy Generated (MWH)	1710728.7	3368113.6	456595098.1
17.	Gross Electrical Energy Generated (MWH)	593778.0	1149421.0	150289954.0
18.	Net Electrical Energy Generated (MWH)	553854.0	1089996.0	143570713.0
19.	Unit Service Factor	100.0%	93.8%	73.0%
20.	Unit Availability Factor	100.0%	93.8%	73.0%
21.	Unit Capacity Factor (Using MDC Net)	101.1%	94.5%	69.8%
22.	Unit Capacity Factor (Using DER Net)	104.6%	97.7%	69.7%
23.	Unit Forced Outage Rate	0.0%	6.2%	9.8%

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: February 2003

Docket No.: 50-280
Unit Name: Surry Unit 1
Date: 03/03/03
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)

(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: February 2003

Docket No.: 50-281
Unit Name: Surry Unit 2
Date: 03/03/03
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)

(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: 03/03/03
 Completed by: R. Stef
 Telephone: (757) 365-2486

MONTH: February 2003

<u>Day</u>	<u>Average Daily Power Level (MWe - Net)</u>	<u>Day</u>	<u>Average Daily Power Level (MWe - Net)</u>
1	821	17	822
2	822	18	822
3	817	19	821
4	821	20	822
5	821	21	822
6	821	22	822
7	822	23	822
8	812	24	822
9	822	25	821
10	823	26	821
11	822	27	822
12	822	28	821
13	822		
14	822		
15	822		
16	822		

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: 03/03/03

Completed by: R. Stief

Telephone: (757) 365-2486

MONTH: February 2003

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

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: February 2003

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:

02/01/03	0000	Unit started the month at 100% / 849 MWe.
02/03/03	1909	Ramped unit to 92% / 795 MWe in accordance with 1-OP-TM-005 to realign heater drain pumps.
02/03/03	2110	Commenced ramp to 100%.
02/03/03	2220	Unit at 100% / 852 MWe.
02/08/03	1000	Commenced ramp for 1-MS-GOV-3 main steam governor moog valve replacement.
02/08/03	1048	Ramp stopped at 90% / 771 MWe.
02/08/03	1240	Repair on 1-MS-GOV-3 complete.
02/08/03	1255	Commenced ramp to 100%.
02/08/03	1425	Unit at 100% / 850 MWe.
02/28/03	2400	Unit finished the month at 100% / 852 MWe.

UNIT Two:

02/01/03	0000	Unit started the month at 100% / 850 MWe.
02/28/03	2400	Unit finished the month at 100% / 854 MWe.

FACILITY CHANGES THAT DID NOT REQUIRE NRC APPROVAL

MONTH/YEAR: February 2003

None during the Reporting Period

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

MONTH/YEAR: February 2003

None during the Reporting Period

TESTS AND EXPERIMENTS THAT DID NOT REQUIRE NRC APPROVAL

MONTH/YEAR: February 2003

None during the Reporting Period

CHEMISTRY REPORT

MONTH/YEAR: February 2003

Primary Coolant Analysis	Unit No. 1			Unit No. 2		
	Max.	Min.	Avg	Max.	Min.	Avg.
Gross Radioactivity, $\mu\text{Ci/ml}$	3.00E-1	2.10E-1	2.50E-1	3.03E-1	1.92E-1	2.32E-1
Suspended Solids, ppm	-	-	-	-	-	-
Gross Tritium, $\mu\text{Ci/ml}$	8.61E-2	5.28E-2	6.95E-2	7.77E-1	7.02E-1	7.44E-1
^{131}I , $\mu\text{Ci/ml}$	2.24E-4	1.47E-4	1.91E-4	1.23E-4	6.76E-5	9.54E-5
$^{131}\text{I}/^{133}\text{I}$	0.08	0.05	0.07	0.11	0.07	0.09
Hydrogen, cc/kg	42.6	33.3	37.3	42	36.9	38.6
Lithium, ppm	2.27	1.71	2.05	2.35	2.11	2.22
Boron - 10, ppm*	64	44	57	157	140	149
Oxygen, (DO), ppm	≤ 0.005	≤ 0.005	≤ 0.005	≤ 0.005	≤ 0.005	≤ 0.005
Chloride, ppm	0.003	0.001	0.002	0.003	0.001	0.002
pH @ 25 degree Celsius	7.4	6.21	7.04	6.98	5.93	6.44

* Boron - 10 = Total Boron x 0.196

Comments.

None

**FUEL HANDLING
 UNITS 1 & 2**

MONTH/YEAR: February 2003

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
Spent Fuel Cask TN-32-31	02/03/03	32	2H9	LM0RNP	4.0022	N/A
			2H5	LM0Rnk	4.0077	
			3V6	LM0TTS	3.9933	
			4J1	LM0UZD	4.0167	
			0J3	LM0UY9	3.8070	
			0J7	LM0UYD	3.8073	
			4J6	LM0UZJ	4.0275	
			0H4	LM0RMY	3.7974	
			0H9	LM0RN3	3.8062	
			4J5	LM0UZH	4.0145	
			1J1	LM0UYH	3.8071	
			0H2	LM0RMW	3.8026	
			0J8	LM0UYE	3.8043	
			4J8	LM0UZL	4.0197	
			4V4	LM0TU0	4.0012	
			2H8	LM0RNN	4.0037	
			4V7	LM0TU3	3.9993	
			1J3	LM0UYK	3.8065	

FUEL HANDLING
 UNITS 1 & 2

MONTH/YEAR: February 2003

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
			4J3	LM0UZF	4.0096	
			4J4	LM0UZG	4.0142	
			3H3	LM0RNT	4.0034	
			3V3	LM0TTP	4.0019	
			4V1	LM0TTX	4.0013	
			4V6	LM0TU2	3.9933	
			0H7	LM0RN1	3.7996	
			2H7	LM0RNM	4.0035	
			3V4	LM0TTQ	4.0012	
			4H0	LM0RP0	4.0078	
			4J2	LM0UZE	4.0169	
			3J7	LM0UZ9	4.0145	
			0J1	LM0UY7	3.8066	
			3V9	LM0TTV	3.9990	
Spent Fuel Cask TN-32-33	02/13/03	32	4H9	LM0RP9	4.0080	N/A
			4H5	LM0RP5	4.0101	
			6V0	LM0TUG	3.9911	
			1J7	LM0UYP	3.8044	

**FUEL HANDLING
 UNITS 1 & 2**

MONTH/YEAR: February 2003

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
			2J0	LM0UYS	3.8070	
			1J5	LM0UYM	3.8046	
			6J3	LM0V0V	4 0234	
			2H2	LM0RNG	3.7977	
			2H0	LM0RNE	3.8002	
			5J5	LM0UZT	4.0145	
			1J9	LM0UYR	3.8070	
			5V6	LM0TUC	3.9993	
			2J3	LM0UYV	3.8070	
			2J9	LM0UZ1	3.8109	
			5V0	LM0TU6	3.9988	
			4H6	LM0RP6	4.0101	
			5J9	LM0V0R	4 0142	
			5J3	LM0UZR	4.0217	
			5J2	LM0UZQ	4.0145	
			5V3	LM0TU9	3.9901	
			5H2	LM0RPC	4.0064	
			1H0	LM0RN4	3.7947	

**FUEL HANDLING
UNITS 1 & 2**

MONTH/YEAR: February 2003

<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>
			6V1	LM0TUH	3.9991	
			5V7	LM0TUD	3.9876	
			4V8	LM0TU4	4.0013	
			5H0	LM0RPA	4.0104	
			1H2	LM0RN6	3.8004	
			4H7	LM0RP7	4.0068	
			5V9	LM0TUF	4.0011	
			5J1	LM0UZP	4.0276	
			6J2	LM0V0U	4.0263	
			5J4	LM0UZS	4.0144	

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

MONTH/YEAR: February 2003

None during the Reporting Period