VIRGINIA ELECTRIC AND POWER COMPANY
RICHMOND, VIRGINIA 23261
February 06, 2002

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

Serial No. 02-071
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 January 2002 is provided in the attachment.

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

Very truly yours,

R. H. Blount

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. 02-01

Approved: R. F. Blount 2/6/02

Site Vice President Date

TABLE OF CONTENTS

OPERATING DATA REPORT

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

1. Unit Name: ..... Surry Unit 1
2. Reporting Period: ..... January 2002
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	744.0	744.0	255192.0
12.	Hours Reactor Was Critical	744.0	744.0	186505.6
13.	Reactor Reserve Shutdown Hours	0.0	0.0	3774.5
14.	Hours Generator On-Line	744.0	744.0	183846.2
15.	Unit Reserve Shutdown Hours	0.0	0.0	3736.2
16.	Gross Thermal Energy Generated (MWH)	1893551.9	1893551.9	437201029.8
17.	Gross Electrical Energy Generated (MWH)	635091.0	635091.0	143715194.0
18.	Net Electrical Energy Generated (MWH)	613399.0	613399.0	137206260.0
19.	Unit Service Factor	100.0%	100.0%	72.0%
20.	Unit Availability Factor	100.0%	100.0%	73.5%
21.	Unit Capacity Factor (Using MDC Net)	101.8%	101.8%	68.8%
22.	Unit Capacity Factor (Using DER Net)	104.6%	104.6%	68.2%
23.	Unit Forced Outage Rate	0.0%	0.0%	12.7%

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		

OPERATING DATA REPORT

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

1. Unit Name: ..... Surry Unit 2
2. Reporting Period: ..... January 2002
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	744.0	744.0	252073.0
12.	Hours Reactor Was Critical	744.0	744.0	184562.0
13.	Reactor Reserve Shutdown Hours	0.0	0.0	328.1
14.	Hours Generator On-Line	744.0	744.0	182360.4
15.	Unit Reserve Shutdown Hours	0.0	0.0	0.0
16.	Gross Thermal Energy Generated (MWH)	1894040.7	1894040.7	434918944.9
17.	Gross Electrical Energy Generated (MWH)	637175.0	637175.0	143014182.0
18.	Net Electrical Energy Generated (MWH)	615322.0	615322.0	136572372.0
19.	Unit Service Factor	100.0%	100.0%	72.3%
20.	Unit Availability Factor	100.0%	100.0%	72.3%
21.	Unit Capacity Factor (Using MDC Net)	101.5%	101.5%	69.0%
22.	Unit Capacity Factor (Using DER Net)	105.0%	105.0%	68.8%
23.	Unit Forced Outage Rate	0.0%	0.0%	10.1%

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

April 2002

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: January 2002

Docket No.: 50-280
Unit Name: Surry Unit 1
Date: 02/04/02
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: January 2002

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

MONTH: January 2002

Day	Average Daily Power Level (MWe - Net)	Day	Average Daily Power Level (MWe - Net)
1	825	17	826
2	827	18	826
3	825	19	824
4	825	20	825
5	825	21	824
6	825	22	824
7	823	23	824
8	824	24	825
9	825	25	825
10	825	26	824
11	825	27	825
12	825	28	824
13	825	29	824
14	823	30	824
15	824	31	824
16	824		

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

MONTH: January 2002

Day	Average Daily Power Level (MWe - Net)	Day	Average Daily Power Level (MWe - Net)
1	827	17	828
2	827	18	828
3	826	19	828
4	827	20	827
5	828	21	827
6	827	22	828
7	827	23	828
8	826	24	827
9	826	25	827
10	825	26	827
11	826	27	828
12	825	28	828
13	826	29	828
14	827	30	829
15	828	31	828
16	826		

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 2002

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:

01/01/02	0000	Unit started the month at 100% / 854 MWe.
01/31/02	2400	Unit finished the month at 100% / 854 MWe.

UNIT TWO:

01/01/02	0000	Unit started the month at 100% / 855 MWe.
01/31/02	2400	Unit finished the month at 100% / 855 MWe.

FACILITY CHANGES THAT DID NOT REQUIRE NRC APPROVAL

MONTH/YEAR: January 2002

None during the Reporting Period

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

MONTH/YEAR: January 2002

None during the Reporting Period

TESTS AND EXPERIMENTS THAT DID NOT REQUIRE NRC APPROVAL

MONTH/YEAR: January 2002

None during the Reporting Period

CHEMISTRY REPORT

MONTH/YEAR: January 2002

Primary Coolant Analysis	Unit No. 1			Unit No. 2		
	Max.	Min.	Avg.	Max.	Min.	Avg.
Gross Radioactivity, μCi/ml	3.36E-1	2.37E-1	2.79E-1	3.24E-1	2.10E-1	2.64E-1
Suspended Solids, ppm	-	-	-	-	-	-
Gross Tritium, μCi/ml	5.87E-1	3.55E-1	4.72E-1	1.51E-1	1.39E-1	1.47E-1
I^{131}, μCi/ml	1.74E-4	5.51E-5	1.22E-4	1.97E-4	8.11E-5	1.15E-4
I^{131}/I^{133}	0.12	0.04	0.09	0.12	0.05	0.07
Hydrogen, cc/kg	39.6	35.4	37.7	43	36.7	39.9
Lithium, ppm	2.48	2.23	2.38	2.03	1.54	1.79
Boron - 10, ppm*	269	258	263	56.6	37.6	48.5
Oxygen, (DO), ppm	≤ 0.005	≤ 0.005	≤ 0.005	≤ 0.005	≤ 0.005	≤ 0.005
Chloride, ppm	0.022	0.005	0.008	0.002	0.001	0.001
pH @ 25 degree Celsius	6.5	6.29	6.39	7.38	7.2	7.29

* Boron - 10 = Total Boron x 0.196

Comments:

None

FUEL HANDLING
UNITS 1 & 2

MONTH/YEAR: January 2002

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
Unit 2 Batch 20 Shipment #1	01/03/02	12	01R	LM1CNM	4.1011	571.00 GBq
			04R	LM1CNQ	4.0923	
			10R	LM1CNW	4.0992	
			16R	LM1CP2	4.1074	
			22R	LM1CP8	4.1010	
			33R	LM1CPK	4.1077	
			38R	LM1CPQ	4.2437	
			39R	LM1CPR	4.2486	
			41R	LM1CPT	4.2440	
			45R	LM1CPX	4.2459	
			53R	LM1CQ5	4.2675	
			59R	LM1CQB	4.2500	
Unit 2 Batch 20 Shipment #2	01/08/02	12	02R	LM1CNN	4.1000	568.69 GBq
			06R	LM1CNS	4.1007	
			13R	LM1CNZ	4.1018	
			17R	LM1CP3	4.0986	
			19R	LM1CP5	4.1089	
			20R	LM1CP6	4.1007	

FUEL HANDLING
UNITS 1 & 2

MONTH/YEAR: January 2002

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
			21R	LM1CP7	4.0985	
			36R	LM1CPN	4.0999	
			48R	LM1CQ0	4.2554	
			52R	LM1CQ4	4.2646	
			54R	LM1CQ6	4.2747	
			56R	LM1CQ8	4.2432	
Unit 2 Batch 20 Shipment #3	01/09/02	12	05R	LM1CNR	4.1083	569.06 GBq
			11R	LM1CNX	4.1013	
			18R	LM1CP4	4.1075	
			23R	LM1CP9	4.1080	
			27R	LM1CPD	4.1031	
			31R	LM1CPH	4.1076	
			32R	LM1CPJ	4.1011	
			34R	LM1CPL	4.1102	
			42R	LM1CPU	4.2453	
			43R	LM1CPV	4.2466	
			49R	LM1CQ1	4.2516	
			60R	LM1CQC	4.2564	

FUEL HANDLING
UNITS 1 & 2

MONTH/YEAR: January 2002

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
Unit 2 Batch 20 Shipment #4	01/10/02	12	07R	LM1CNT	4.1082	570.17 GBq
			08R	LM1CNU	4.1003	
			12R	LM1CNY	4.1023	
			24R	LM1CPA	4.0989	
			25R	LM1CPB	4.1067	
			30R	LM1CPG	4.1025	
			35R	LM1CPM	4.1005	
			37R	LM1CPP	4.2445	
			44R	LM1CPW	4.2446	
			47R	LM1CPZ	4.2486	
			51R	LM1CQ3	4.2413	
			55R	LM1CQ7	4.2517	
Unit 2 Batch 20 Shipment #5	01/11/02	12	03R	LM1CNP	4.0935	570.17 GBq
			09R	LM1CNV	4.0988	
			14R	LM1CP0	4.1015	
			15R	LM1CP1	4.0986	
			26R	LM1CPC	4.1085	
			28R	LM1CPE	4.1029	

FUEL HANDLING
UNITS 1 & 2

MONTH/YEAR: January 2002

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
			29R	LM1CPF	4.1004	
			40R	LM1CPS	4.2477	
			46R	LM1CPY	4.2521	
			50R	LM1CQ2	4.2482	
			57R	LM1CQ9	4.2445	
			58R	LM1CQA	4.2465	

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

MONTH/YEAR: January 2002

None during the Reporting Period