VIRGINIA ELECTRIC AND POWER COMPANY
RICHMOND, VIRGINIA 23261

February 9,2004

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

Serial No. 04-068
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 2004 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

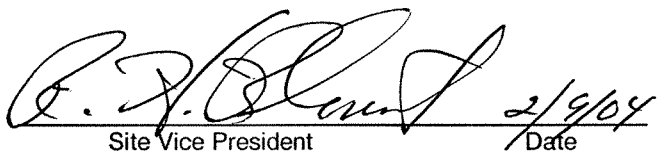
Attachment

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. G. J. McCoy
NRC Senior Resident Inspector
Surry Power Station

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

Approved:  2/9/04

Site Vice President Date

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OPERATING DATA REPORT

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

1. Unit Name: ..... Surry Unit 1
2. Reporting Period: ..... January 2004
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	744.00	744.00	272712.00
12.	Hours Reactor Was Critical	744.00	744.00	202147.48
13.	Reactor Reserve Shutdown Hours	0.00	0.00	3774.50
14.	Hours Generator On-Line	744.00	744.00	199348.77
15.	Unit Reserve Shutdown Hours	0.00	0.00	3736.20
16.	Gross Thermal Energy Generated (MWH)	1893466.30	1893466.30	476285389.90
17.	Gross Electrical Energy Generated (MWH)	635527.00	635527.00	156774792.00
18.	Net Electrical Energy Generated (MWH)	613633.00	613633.00	149775733.00
19.	Unit Service Factor	100.00%	100.00%	73.10%
20.	Unit Availability Factor	100.00%	100.00%	74.47%
21.	Unit Capacity Factor (Using MDC Net)	101.82%	101.82%	70.10%
22.	Unit Capacity Factor (Using DER Net)	104.67%	104.67%	69.70%
23.	Unit Forced Outage Rate	0.00%	0.00%	12.01%

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

1. Unit Name: ..... Surry Unit 2
2. Reporting Period: ..... January 2004
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	744.00	744.00	269593.00
12.	Hours Reactor Was Critical	744.00	744.00	199706.30
13.	Reactor Reserve Shutdown Hours	0.00	0.00	328.10
14.	Hours Generator On-Line	744.00	744.00	197190.42
15.	Unit Reserve Shutdown Hours	0.00	0.00	0.00
16.	Gross Thermal Energy Generated (MWH)	1893918.50	1893918.50	472540262.30
17.	Gross Electrical Energy Generated (MWH)	632536.00	632536.00	155610850.00
18.	Net Electrical Energy Generated (MWH)	610510.00	610510.00	148703346.00
19.	Unit Service Factor	100.00%	100.00%	73.14%
20.	Unit Availability Factor	100.00%	100.00%	73.14%
21.	Unit Capacity Factor (Using MDC Net)	100.68%	100.68%	70.09%
22.	Unit Capacity Factor (Using DER Net)	104.13%	104.13%	70.00%
23.	Unit Forced Outage Rate	0.0%	0.00%	9.52%

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: January 2004

Docket No.: 50-280
Unit Name: Surry Unit 1
Date: 02/02/04
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: January 2004

Docket No.: 50-281
Unit Name: Surry Unit 2
Date: 02/02/04
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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3 - Automatic Scram
4 - Other (Explain)

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

MONTH: January 2004

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

AVERAGE DAILY UNIT POWER LEVEL

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

MONTH: January 2004

Day	Average Daily Power Level (MWe - Net)	Day	Average Daily Power Level (MWe - Net)
1	821	17	820
2	821	18	820
3	821	19	819
4	821	20	819
5	821	21	820
6	821	22	821
7	821	23	821
8	821	24	820
9	821	25	820
10	821	26	820
11	821	27	821
12	821	28	821
13	821	29	821
14	820	30	821
15	820	31	820
16	820		

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 2004

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:

01/01/04	0000	Unit started the month at 100% / 855 MWe.
01/31/04	2400	Unit finished the month at 100% / 853 MWe.

UNIT TWO:

01/01/04	0000	Unit started the month at 100% / 851 MWe.
01/31/04	2400	Unit finished the month at 100% / 850 MWe.

FACILITY CHANGES THAT DID NOT REQUIRE NRC APPROVAL

MONTH/YEAR: January 2004

None during the Reporting Period.

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

MONTH/YEAR: January 2004

SC-03-001 **Justification for Continued Operation** 11/08/03

Justification for Continued Operation (JCO) SC-03-001, "Compensatory Measures for 1J/2J Switchgear Fire Event" implements administrative controls to quickly establish charging pump cross-tie upon loss of RCP seal cooling due to an emergency switchgear room fire.

SC-03-002 **Justification for Continued Operation** 12/12/03

Justification for Continued Operation (JCO) SC-03-002, "Control of Auxiliary Feedwater to Steam Generators with One Emergency Bus De-energized" changes applicable procedures to maintain four of the six motor-operated valves (MOVs) to the steam generators (SGs) closed. With this configuration, in the event of a steam generator tube rupture, control room operators will be able to align the MOVs to isolate the ruptured SG.

TESTS AND EXPERIMENTS THAT DID NOT REQUIRE NRC APPROVAL

MONTH/YEAR: January 2004

None during the Reporting Period

CHEMISTRY REPORT

MONTH/YEAR: January 2004

Primary Coolant Analysis	Unit No. 1			Unit No. 2		
	Max.	Min.	Avg.	Max.	Min.	Avg.
Gross Radioactivity, μCi/ml	4.30E-1	2.26E-1	3.35E-1	3.85E-1	2.15E-1	2.91E-1
Suspended Solids, ppm	-	-	-	-	-	-
Gross Tritium, μCi/ml	9.41E-1	8.07E-1	8.69E-1	6.46E-1	4.00E-1	5.18E-1
I^{131}, μCi/ml	1.89E-4	1.08E-4	1.44E-4	1.00E-4	5.64E-5	7.88E-5
I^{131}/I^{133}	0.1	0.06	0.07	0.35	0.22	0.30
Hydrogen, cc/kg	35.1	32.9	34.2	40.4	36.4	38
Lithium, ppm	2.28	2.11	2.19	2.6	2.3	2.41
Boron - 10, ppm*	185	170	177	274	264	268
Oxygen, (DO), ppm	≤ 0.005	≤ 0.005	≤ 0.005	≤ 0.005	≤ 0.005	≤ 0.005
Chloride, ppm	0.005	0.003	0.004	0.009	0.007	0.008
pH @ 25 degree Celsius	6.81	6.56	6.66	6.55	6.32	6.41

* Boron - 10 = Total Boron x 0.196

Comments:
Unit 1: 100% power
Unit 2: 100% power
Testing for Suspended Solids is required quarterly. No testing was performed in January.

FUEL HANDLING
UNITS 1 & 2

MONTH/YEAR: January 2004

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: January 2004

None during the Reporting Period