

VIRGINIA ELECTRIC AND POWER COMPANY
RICHMOND, VIRGINIA 23261

December 10, 2004

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

Serial No. 04-741
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 November 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. N. P. Garrett
NRC Senior Resident Inspector
Surry Power Station

IE24

**VIRGINIA ELECTRIC AND POWER COMPANY
SURRY POWER STATION
MONTHLY OPERATING REPORT
REPORT NO. 04-11**

Approved:


Site Vice President

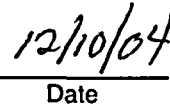

Date

TABLE OF CONTENTS

Section	Page
Operating Data Report - Unit No. 1	3
Operating Data Report - Unit No. 2	4
Unit Shutdowns and Power Reductions - Unit No. 1	5
Unit Shutdowns and Power Reductions - Unit No. 2	6
Average Daily Unit Power Level - Unit No. 1	7
Average Daily Unit Power Level - Unit No. 2	8
Summary of Operating Experience - Unit Nos. 1 and 2	9
Facility Changes That Did Not Require NRC Approval	10
Procedure or Method of Operation Changes That Did Not Require NRC Approval	11
Tests and Experiments That Did Not Require NRC Approval	12
Chemistry Report	13
Fuel Handling - Unit Nos. 1 and 2	14
Description of Periodic Test(s) Which Were Not Completed Within the Time Limits Specified in Technical Specifications	15

OPERATING DATA REPORT

Docket No.: 50-280
Date: 12/01/04
Completed By: R. Stief
Telephone: (757) 365-2486

1. Unit Name: Surry Unit 1
2. Reporting Period:..... November 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: _____

	<u>This Month</u>	<u>Year-To-Date</u>	<u>Cumulative</u>
11. Hours in Reporting Period	720.00	8040.00	280008.00
12. Hours Reactor Was Critical	0.00	7295.80	208699.28
13. Reactor Reserve Shutdown Hours	0.00	0.00	3774.50
14. Hours Generator On-Line	0.00	7266.78	205871.55
15. Unit Reserve Shutdown Hours	0.00	0.00	3736.20
16. Gross Thermal Energy Generated (MWH)	0.00	18421462.00	492813385.60
17. Gross Electrical Energy Generated (MWH)	0.00	6149137.00	162288402.00
18. Net Electrical Energy Generated (MWH)	0.00	5927202.00	155089302.00
19. Unit Service Factor	0.00%	90.38%	73.52%
20. Unit Availability Factor	0.00%	90.38%	74.86%
21. Unit Capacity Factor (Using MDC Net)	0.00%	91.01%	70.63%
22. Unit Capacity Factor (Using DER Net)	0.00%	93.56%	70.29%
23. Unit Forced Outage Rate	0.00%	0.39%	11.68%

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	_____	_____

OPERATING DATA REPORT

Docket No.: 50-281
Date: 12/01/04
Completed By: R. Stief
Telephone: (757) 365-2486

1. Unit Name: Surry Unit 2
2. Reporting Period:..... November 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:

.....
.....

	<u>This Month</u>	<u>Year-To-Date</u>	<u>Cumulative</u>
11. Hours in Reporting Period	720.00	8040.00	276889.00
12. Hours Reactor Was Critical	720.00	7885.52	206847.82
13. Reactor Reserve Shutdown Hours	0.00	0.00	328.10
14. Hours Generator On-Line	720.00	7862.75	204309.17
15. Unit Reserve Shutdown Hours	0.00	0.00	0.00
16. Gross Thermal Energy Generated (MWH)	1832625.10	19962477.80	490608821.60
17. Gross Electrical Energy Generated (MWH)	617150.00	6676886.00	161655200.00
18. Net Electrical Energy Generated (MWH)	595974.00	6442634.00	154535470.00
19. Unit Service Factor	100.00%	97.80%	73.79%
20. Unit Availability Factor	100.00%	97.80%	73.79%
21. Unit Capacity Factor (Using MDC Net)	101.56%	98.32%	70.85%
22. Unit Capacity Factor (Using DER Net)	105.04%	101.69%	70.83%
23. Unit Forced Outage Rate	0.00%	2.20%	9.29%

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

April 2005
.....
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: November 2004

Docket No.: 50-280
 Unit Name: Surry Unit 1
 Date: 12/01/04
 Completed by: R. Stief
 Telephone: (757) 365-2486

Date	(1) Type	Duration Hours	(2) Reason	(3) Method of Shutting Down Rx	LER No.	(4) System Code	(5) Component Code	Cause & Corrective Action to Prevent Recurrence
11/01/04	S	720	C	1	N/A	N/A	N/A	Unit offline for refueling

(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: November 2004

Docket No.: 50-281
Unit Name: Surry Unit 2
Date: 12/01/04
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: 12/01/04
 Completed by: R. Stief
 Telephone: (757) 365-2486

MONTH: November 2004

Day	Average Daily Power Level (MWe - Net)	Day	Average Daily Power Level (MWe - Net)
1	0	17	0
2	0	18	0
3	0	19	0
4	0	20	0
5	0	21	0
6	0	22	0
7	0	23	0
8	0	24	0
9	0	25	0
10	0	26	0
11	0	27	0
12	0	28	0
13	0	29	0
14	0	30	0
15	0		
16	0		

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: 12/01/04
 Completed by: R. Stief
 Telephone: (757) 365-2486

MONTH: November 2004

Day	Average Daily Power Level (MWe - Net)	Day	Average Daily Power Level (MWe - Net)
1	827	17	829
2	827	18	829
3	827	19	829
4	827	20	829
5	827	21	830
6	826	22	829
7	827	23	829
8	825	24	829
9	826	25	829
10	827	26	826
11	827	27	828
12	827	28	829
13	827	29	828
14	827	30	825
15	828		
16	830		

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: November 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:

11/01/04	0000	Unit started the month at 0% / 0 MWe due to refueling outage.
11/30/04	2400	Unit finished the month at 0% / 0 MWe.

UNIT Two:

11/01/04	0000	Unit started the month at 100% / 856 MWe.
11/30/04	2400	Unit finished the month at 100% / 856 MWe.

FACILITY CHANGES THAT DID NOT REQUIRE NRC APPROVAL

MONTH/YEAR: November 2004

None during the Reporting Period.

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

MONTH/YEAR: November 2004

SC-03-002, Rev. 4

Justification for Continued Operation

11/09/04

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. Revision 4 changed the JCO to be applicable to Unit 2 only. Design Change Package (DCP) 04-002, "Replace AFW Isolation Valves with Stop-Check Valves/Surry/Units 1 & 2" replaces the Auxiliary Feedwater (AFW) isolation valves downstream of each AFW MOV with stop-check valves and provide access for testing them. The DCP was installed for Unit 1 during its refueling outage. Unit 2 will be completed during its next refueling outage.

TESTS AND EXPERIMENTS THAT DID NOT REQUIRE NRC APPROVAL

MONTH/YEAR: November 2004

None during the Reporting Period

CHEMISTRY REPORT

MONTH/YEAR: November 2004

Primary Coolant Analysis	Unit No. 1			Unit No. 2		
	Max.	Min.	Avg.	Max.	Min.	Avg.
Gross Radioactivity, $\mu\text{Ci/ml}$	9.47E-1	9.01E-4	1.04E-1	2.51E-1	1.22E-1	1.77E-1
Suspended Solids, ppm	0.5	0.01	0.07	-	-	-
Gross Tritium, $\mu\text{Ci/ml}$	8.21E-2	8.21E-2	8.21E-2	1.33E+0	9.58E-1	1.19E+0
I^{131} , $\mu\text{Ci/ml}$	-	-	-	1.13E-4	2.43E-5	6.35E-5
$\text{I}^{131}/\text{I}^{133}$	-	-	-	0.45	0.15	0.22
Hydrogen, cc/kg	24.1	3.8	9.2	44.5	38.4	41.9
Lithium, ppm	0.44	0.1	0.17	2.27	2.11	2.19
Boron - 10, ppm*	489	381	475	129	111	121
Oxygen, (DO), ppm	8.0	≤ 0.005	4.1	≤ 0.005	≤ 0.005	≤ 0.005
Chloride, ppm	0.084	0.003	0.023	0.006	0.002	0.003
pH @ 25 degree Celsius	5.67	4.56	4.94	6.97	6.77	6.88

* Boron - 10 = Total Boron x 0.196

Comments:

Unit 1: Unit shutdown for RFO. Iodine-131 analysis not performed.

Unit 2: Unit at 100% power. Quarterly Suspended Solids not required.

**FUEL HANDLING
UNITS 1 & 2**

MONTH/YEAR: November 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
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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: November 2004

None during the Reporting Period