

VIRGINIA ELECTRIC AND POWER COMPANY
RICHMOND, VIRGINIA 23261

June 11, 2002

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

Serial No. 02-339
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 May 2002 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

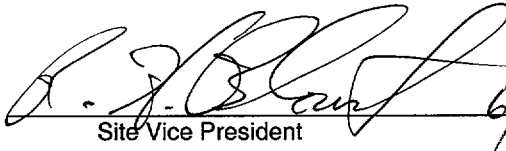
cc: United States Nuclear Regulatory Commission
Region II
Sam Nunn Atlanta Federal Center
61 Forsyth Street, SW, Suite 23 T85
Atlanta, Georgia 30303-8931

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. 02-05**

Approved:


Site Vice President

6/11/02
Date

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OPERATING DATA REPORT

Docket No.: 50-280
 Date: 06/03/02
 Completed By: R. Stief
 Telephone: (757) 365-2486

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

	<u>This Month</u>	<u>Year-To-Date</u>	<u>Cumulative</u>
11. Hours in Reporting Period	744.0	3623.0	258071.0
12. Hours Reactor Was Critical	744.0	3623.0	189384.6
13. Reactor Reserve Shutdown Hours	0.0	0.0	3774.5
14. Hours Generator On-Line	744.0	3623.0	186725.2
15. Unit Reserve Shutdown Hours	0.0	0.0	3736.2
16. Gross Thermal Energy Generated (MWH)	1866543.9	9166842.5	444474320.4
17. Gross Electrical Energy Generated (MWH)	624082.0	3071573.0	146151676.0
18. Net Electrical Energy Generated (MWH)	601939.0	2959749.0	139552610.0
19. Unit Service Factor	100.0%	100.0%	72.4%
20. Unit Availability Factor	100.0%	100.0%	73.8%
21. Unit Capacity Factor (Using MDC Net)	99.9%	100.9%	69.1%
22. Unit Capacity Factor (Using DER Net)	102.7%	103.7%	68.6%
23. Unit Forced Outage Rate	0.0%	0.0%	12.5%

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	_____	_____

OPERATING DATA REPORT

Docket No.: 50-281
 Date: 06/03/02
 Completed By: R. Stief
 Telephone: (757) 365-2486

- 1. Unit Name: Surry Unit 2
- 2. Reporting Period: May 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: _____

		<u>This Month</u>	<u>Year-To-Date</u>	<u>Cumulative</u>
11.	Hours in Reporting Period	744.0	3623.0	254952.0
12.	Hours Reactor Was Critical	744.0	2964.8	186782.8
13.	Reactor Reserve Shutdown Hours	0.0	0.0	328.1
14.	Hours Generator On-Line	744.0	2926.3	184542.7
15.	Unit Reserve Shutdown Hours	0.0	0.0	0.0
16.	Gross Thermal Energy Generated (MWH)	1893674.1	7370688.4	440395592.6
17.	Gross Electrical Energy Generated (MWH)	635108.0	2475926.0	144852933.0
18.	Net Electrical Energy Generated (MWH)	613004.0	2390258.0	138347308.0
19.	Unit Service Factor	100.0%	80.8%	72.4%
20.	Unit Availability Factor	100.0%	80.8%	72.4%
21.	Unit Capacity Factor (Using MDC Net)	101.1%	81.0%	69.1%
22.	Unit Capacity Factor (Using DER Net)	104.6%	83.7%	68.9%
23.	Unit Forced Outage Rate	0.0%	0.0%	10.0%

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: May 2002

Docket No.: 50-280
 Unit Name: Surry Unit 1
 Date: 06/03/02
 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
05/04/02	S	N/A	B	N/A	N/A	EL	BLO	Ramped power to replace fan pedestal bearings on Isophase Bus Duct Cooling Fan and perform Turbine Valve Freedom of Movement testing

(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: May 2002

Docket No.: 50-281
Unit Name: Surry Unit 2
Date: 06/03/02
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)

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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: 06/03/02
 Completed by: R. Stief
 Telephone: (757) 365-2486

MONTH: May 2002

Day	Average Daily Power Level (MWe - Net)	Day	Average Daily Power Level (MWe - Net)
1	823	17	822
2	823	18	822
3	823	19	822
4	547	20	822
5	713	21	820
6	823	22	823
7	823	23	819
8	822	24	822
9	822	25	822
10	821	26	822
11	821	27	822
12	821	28	817
13	821	29	820
14	823	30	815
15	823	31	820
16	823		

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: 06/03/02
 Completed by: R. Stief
 Telephone: (757) 365-2486

MONTH: May 2002

<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	824	18	825
3	824	19	827
4	825	20	827
5	826	21	827
6	825	22	827
7	824	23	827
8	824	24	826
9	824	25	821
10	824	26	823
11	820	27	823
12	824	28	822
13	822	29	822
14	823	30	821
15	824	31	821
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.

SUMMARY OF OPERATING EXPERIENCE

MONTH/YEAR: May 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:

05/01/02	0000	Unit started the month at 100% / 847 MWe.
05/04/02	0108	Commenced ramp from 100% to 85% for 1-OSP-TM-001 and work to 1-EP-F-1A.
05/04/02	0250	1-OSP-TM-001 completed SAT. Unit at 88% / 753 MWe.
05/04/02	0256	Recommenced ramp to 65% for 1-EP-F-1A work.
05/04/02	0442	Stopped ramp at 65% / 527 MWe.
05/05/02	0620	1-EP-F-1A RTS. Unit at 65% / 534 MWe.
05/05/02	1140	Unit at 100% / 851 MWe.
05/31/02	2400	Unit finished the month at 100% / 848 MWe.

UNIT TWO:

05/01/02	0000	Unit started the month at 100% / 854 MWe.
05/31/02	2400	Unit finished the month at 100% / 851 MWe.

FACILITY CHANGES THAT DID NOT REQUIRE NRC APPROVAL

MONTH/YEAR: May 2002

None during the Reporting Period

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

MONTH/YEAR: May 2002

None during the Reporting Period

TESTS AND EXPERIMENTS THAT DID NOT REQUIRE NRC APPROVAL

MONTH/YEAR: May 2002

None during the Reporting Period

CHEMISTRY REPORT

MONTH/YEAR: May 2002

Primary Coolant Analysis	Unit No. 1			Unit No. 2		
	Max.	Min.	Avg.	Max.	Min.	Avg.
Gross Radioactivity, $\mu\text{Ci/ml}$	3.90E-1	2.06E-1	2.81E-1	3.83E-1	1.91E-1	2.58E-1
Suspended Solids, ppm	-	-	-	-	-	-
Gross Tritium, $\mu\text{Ci/ml}$	1.14E+0	1.03E+0	1.09E+0	4.25E-1	2.09E-1	3.14E-1
^{131}I , $\mu\text{Ci/ml}$	1.94E-4	9.02E-5	1.41E-4	1.16E-4	7.59E-5	1.01E-4
$^{131}\text{I}/^{133}\text{I}$	0.09	0.05	0.07	0.14	0.09	0.12
Hydrogen, cc/kg	39.2	34.7	37.3	40.4	34.2	37.2
Lithium, ppm	2.33	2.12	2.22	2.69	2.37	2.54
Boron - 10, ppm*	238	206	217	287	276	280
Oxygen, (DO), ppm	≤ 0.005	≤ 0.005	≤ 0.005	≤ 0.005	≤ 0.005	≤ 0.005
Chloride, ppm	0.013	0.006	0.007	0.004	0.003	0.004
pH @ 25 degree Celsius	6.82	6.47	6.58	6.7	6.33	6.45

* Boron - 10 = Total Boron x 0.196

Comments:

None

**FUEL HANDLING
UNITS 1 & 2**

MONTH/YEAR: May 2002

<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: May 2002

None during the Reporting Period