

VIRGINIA ELECTRIC AND POWER COMPANY
RICHMOND, VIRGINIA 23261

February 7, 2000

United States Nuclear Regulatory Commission
Attention: Document Control Desk
Washington, D.C. 20555

Serial No. 00-069
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 2000 is provided in the attachment.

In the past, we have provided outage-related forecast information in our Monthly Operating Report for Surry Units 1 and 2. Consistent with the content and format recommended by Regulatory Guide 1.16, such information has been provided in Items 24 and 25 of the Operating Data Reports for Surry Units 1 and 2. As the NRC has recognized in its clarification of treatment of information on plant outage and restart schedules, outage-related forecast information is now considered confidential business (or proprietary) information. Based on the nature of this information, a more limited presentation of outage-related forecast information that is not considered proprietary will be provided, rather than request that this information be withheld from public disclosure in accordance with 10CFR2.790. Beginning with this Monthly Operating Report, this information will be presented in the following manner:

- When a shutdown is planned during the next six months, Operating Data Report Item 24 will identify the planned outage(s) only by month and year. In addition, in this and future Monthly Operating Reports, this item will state "Type and duration of scheduled shutdowns are no longer provided [Reference: Letter S/N 00-069, dated February 7, 2000]".

IE24

- In this and future Monthly Operating Reports, Operating Data Report Item 25 will state "Estimated start-up dates are no longer provided [Reference: Letter S/N 00-069, dated February 7, 2000]".

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

Very truly yours,

A handwritten signature in black ink, appearing to read "E. S. Grecheck". The signature is fluid and cursive, with a large loop at the end.

E. S. Grecheck, Site Vice President
Surry Power Station

Attachment

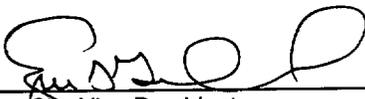
Commitments made by this letter: None

cc: U. S. Nuclear Regulatory Commission - Region II
Atlanta Federal Center
61 Forsyth Street, S. W., Suite 23T85
Atlanta, Georgia 30303

Mr. R. A. Musser
NRC Senior Resident Inspector
Surry Power Station

**VIRGINIA ELECTRIC AND POWER COMPANY
SURRY POWER STATION
MONTHLY OPERATING REPORT
REPORT NO. 00-01**

Approved:



Site Vice President

2/7/00
Date

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OPERATING DATA REPORT

Docket No.: 50-280
 Date: 02/01/00
 Completed By: R. Stief
 Telephone: (757) 365-2486

- 1. Unit Name: Surry Unit 1
- 2. Reporting Period: January 2000
- 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): ... 840
- 7. Maximum Dependable Capacity (Net MWe): 801

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	744.0	237648.0
12. Hours Reactor Was Critical	744.0	744.0	170820.5
13. Reactor Reserve Shutdown Hours	0.0	0.0	3774.5
14. Hours Generator On-Line	744.0	744.0	168275.4
15. Unit Reserve Shutdown Hours	0.0	0.0	3736.2
16. Gross Thermal Energy Generated (MWH)	1893674.1	1893674.1	398333922.5
17. Gross Electrical Energy Generated (MWH)	630545.0	630545.0	130775878.0
18. Net Electrical Energy Generated (MWH)	609784.0	609784.0	124712587.0
19. Unit Service Factor	100.0%	100.0%	70.8%
20. Unit Availability Factor	100.0%	100.0%	72.4%
21. Unit Capacity Factor (Using MDC Net)	102.3%	102.3%	67.3%
22. Unit Capacity Factor (Using DER Net)	104.0%	104.0%	66.6%
23. Unit Forced Outage Rate	0.0%	0.0%	13.7%

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

April 2000

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: 02/01/00
 Completed By: R. Stief
 Telephone: (757) 365-2486

- 1. Unit Name: Surry Unit 2
- 2. Reporting Period: January 2000
- 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):... 840
- 7. Maximum Dependable Capacity (Net MWe): 801

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	744.0	234529.0
12.	Hours Reactor Was Critical	744.0	744.0	168273.1
13.	Reactor Reserve Shutdown Hours	0.0	0.0	328.1
14.	Hours Generator On-Line	744.0	744.0	166132.4
15.	Unit Reserve Shutdown Hours	0.0	0.0	0.0
16.	Gross Thermal Energy Generated (MWH)	1892879.8	1892879.8	393920873.0
17.	Gross Electrical Energy Generated (MWH)	637475.0	637475.0	129270373.0
18.	Net Electrical Energy Generated (MWH)	616395.0	616395.0	123313252.0
19.	Unit Service Factor	100.0%	100.0%	70.8%
20.	Unit Availability Factor	100.0%	100.0%	70.8%
21.	Unit Capacity Factor (Using MDC Net)	103.4%	103.4%	67.1%
22.	Unit Capacity Factor (Using DER Net)	105.1%	105.1%	66.7%
23.	Unit Forced Outage Rate	0.0%	0.0%	11.0%

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: January 2000

Docket No.: 50-280
Unit Name: Surry Unit 1
Date: 02/01/00
Completed by: J. R. Pincus
Telephone: (757) 365-2863

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)

(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 2000

Docket No.: 50-281
Unit Name: Surry Unit 2
Date: 02/01/00
Completed by: J. R. Pincus
Telephone: (757) 365-2863

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)

(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: 02/01/00
 Completed by: J. S. Ashley
 Telephone: (757) 365-2161

MONTH: January 2000

Day	Average Daily Power Level (MWe - Net)	Day	Average Daily Power Level (MWe - Net)
1	820	17	819
2	820	18	818
3	820	19	818
4	819	20	821
5	820	21	819
6	819	22	819
7	820	23	819
8	820	24	819
9	820	25	819
10	819	26	820
11	821	27	820
12	821	28	819
13	820	29	831
14	820	30	820
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.

AVERAGE DAILY UNIT POWER LEVEL

Docket No.: 50-281
 Unit Name: Surry Unit 2
 Date: 02/01/00
 Completed by: J. S. Ashley
 Telephone: (757) 365-2161

MONTH: January 2000

Day	Average Daily Power Level (MWe - Net)	Day	Average Daily Power Level (MWe - Net)
1	829	17	829
2	829	18	828
3	828	19	830
4	829	20	829
5	824	21	819
6	830	22	830
7	829	23	831
8	829	24	830
9	828	25	830
10	828	26	830
11	827	27	830
12	824	28	830
13	828	29	831
14	828	30	830
15	829	31	830
16	829		

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 2000

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:

01/01/00	0000	Unit started the month at 100% / 847 MWe.
01/31/00	2400	Unit finished the month at 100% / 847 MWe.

UNIT TWO:

01/01/00	0000	Unit started the month at 100% / 850 MWe.
01/21/00	0905	Commenced ramp to 90% power for 2-OSP-TM-001. Rx power at 100% / 856 MWe.
01/21/00	1010	Stopped ramp at 92% power for IRPI adjustments.
01/21/00	1031	Recommenced ramp to 90% power.
01/21/00	1039	Ramp stopped at 90% / 775 MWe.
01/21/00	1220	Commenced ramp to 100%.
01/21/00	1345	Ramp stopped at 100% / 853 MWe.
01/31/00	2400	Unit finished the month at 100% / 855 MWe.

FACILITY CHANGES THAT DID NOT REQUIRE NRC APPROVAL

MONTH/YEAR: January 2000

TM S1-99-008	Temporary Modification (Safety Evaluation 00-001)	01/05/00
	Temporary Modification S1-99-008 allowed the Turbine building service air system to be used to operate the resin regeneration valves when the Condensate Polishing Building air compressors became unreliable.	
FS 99-049	UFSAR Change Request (Safety Evaluation 00-002)	01/06/00
	As a result of the Integrated Configuration Management Project review, UFSAR Change Request FS 99-049 contains corrections and clarifications to the UFSAR sections that discuss Surry's spent fuel pool cooling, chilled water and bearing cooling systems. They include clarification of component activities, correct description of components, and more accurate reflection of current design. These changes are to enhance accuracy and do not affect any spent fuel pool cooling, chilled water and bearing cooling systems or structures, or any of their component's operation or performance.	
FS 99-040	UFSAR Change Request (Safety Evaluation 00-003)	01/06/00
	As a result of the Integrated Configuration Management Project review, UFSAR Change Request FS 99-040 contains corrections and clarifications to the UFSAR sections that discuss Surry's ventilation system. They include clarification of component activities, correct description of components, and more accurate reflection of current design. These changes are to enhance accuracy and do not affect any ventilation system or structure, or any of its component's operation or performance.	
TM S1-00-001	Temporary Modification (Safety Evaluation 00-006)	01/20/00
	Temporary Modification S1-00-001 allowed the use of an electrical jumper to bypass the degraded Unit 1 pressurizer proportional heater controller. This will enable the proportional heaters to maintain the water in the pressurizer at saturation temperature and preventing a possible unplanned pressure transient.	
TM S1-00-003	Temporary Modification (Safety Evaluation 00-010)	01/27/00
	Temporary Modification S1-00-003 allows the addition of heat to the Emergency Diesel Generator room in order to maintain the battery electrolyte temperature above the 35 degree F minimum in the event of low room temperature.	

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

MONTH/YEAR: January 2000

None during the Reporting Period

TESTS AND EXPERIMENTS THAT DID NOT REQUIRE NRC APPROVAL

MONTH/YEAR: January 2000

None during the Reporting Period

CHEMISTRY REPORT

MONTH/YEAR: January 2000

Primary Coolant Analysis	Unit No. 1			Unit No. 2		
	Max.	Min.	Avg.	Max.	Min.	Avg.
Gross Radioactivity, $\mu\text{Ci/ml}$	3.69E-1	1.71E-1	2.85E-1	2.31E-1	9.81E-2	1.83E-1
Suspended Solids, ppm	-	-	-	-	-	-
Gross Tritium, $\mu\text{Ci/ml}$	3.94E-1	2.40E-1	3.24E-1	9.09E-1	8.32E-1	8.80E-1
I^{131} , $\mu\text{Ci/ml}$	6.01E-4	3.92E-4	4.89E-4	$\leq 1.01\text{E-4}$	$\leq 6.60\text{E-5}$	$\leq 7.76\text{E-5}$
I^{131}/I^{133}	0.09	0.06	0.07	≤ 0.25	≤ 0.13	≤ 0.16
Hydrogen, cc/kg	40.8	35.3	37.4	42.3	36.5	38.3
Lithium, ppm	1.71	1.29	1.44	2.35	2.09	2.13
Boron - 10, ppm*	44.9	25.3	35.1	155.8	140.3	148.3
Oxygen, (DO), ppm	≤ 0.005	≤ 0.005	≤ 0.005	≤ 0.005	≤ 0.005	≤ 0.005
Chloride, ppm	0.005	0.002	0.003	0.007	0.003	0.005
pH @ 25 degree Celsius	7.62	7.21	7.34	6.86	6.65	6.76

* Boron - 10 = Total Boron x 0.196

Comments:

None

**FUEL HANDLING
UNITS 1 & 2**

MONTH/YEAR: January 2000

<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: January 2000

None during the Reporting Period