

VIRGINIA ELECTRIC AND POWER COMPANY
RICHMOND, VIRGINIA 23261
August 9, 2001

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

Serial No. 01-495
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 July 2001 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

IE22

**VIRGINIA ELECTRIC AND POWER COMPANY
SURRY POWER STATION
MONTHLY OPERATING REPORT
REPORT No. 01- 07**

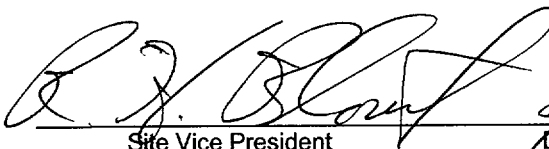
Approved:  8/9/61
Site Vice President Date

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	18

OPERATING DATA REPORT

Docket No.: 50-280
 Date: 08/01/01
 Completed By: R. Stief
 Telephone: (757) 365-2486

- 1. Unit Name: Surry Unit 1
- 2. Reporting Period: July 2001
- 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	5087.0	250775.0
12.	Hours Reactor Was Critical	744.0	5049.9	183354.0
13.	Reactor Reserve Shutdown Hours	0.0	0.0	3774.5
14.	Hours Generator On-Line	744.0	5044.9	180765.6
15.	Unit Reserve Shutdown Hours	0.0	0.0	3736.2
16.	Gross Thermal Energy Generated (MWH)	1893918.5	12809190.9	429661938.7
17.	Gross Electrical Energy Generated (MWH)	630061.0	4260811.0	141199214.0
18.	Net Electrical Energy Generated (MWH)	607601.0	4130153.0	134781381.0
19.	Unit Service Factor	100.0%	99.2%	72.1%
20.	Unit Availability Factor	100.0%	99.2%	73.6%
21.	Unit Capacity Factor (Using MDC Net)	100.8%	100.2%	68.8%
22.	Unit Capacity Factor (Using DER Net)	103.6%	103.0%	68.2%
23.	Unit Forced Outage Rate	0.0%	0.0%	12.9%

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

October 2001

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: 08/01/01
 Completed By: R. Stief
 Telephone: (757) 365-2486

- 1. Unit Name: Surry Unit 2
- 2. Reporting Period: July 2001
- 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	5087.0	247656.0
12. Hours Reactor Was Critical	744.0	4814.5	180403.4
13. Reactor Reserve Shutdown Hours	0.0	0.0	328.1
14. Hours Generator On-Line	744.0	4798.1	178209.2
15. Unit Reserve Shutdown Hours	0.0	0.0	0.0
16. Gross Thermal Energy Generated (MWH)	1894224.0	12162405.0	424383965.9
17. Gross Electrical Energy Generated (MWH)	630650.0	4076230.0	139486362.0
18. Net Electrical Energy Generated (MWH)	607662.0	3934363.0	133170670.0
19. Unit Service Factor	100.0%	94.3%	72.0%
20. Unit Availability Factor	100.0%	94.3%	72.0%
21. Unit Capacity Factor (Using MDC Net)	100.2%	94.9%	68.5%
22. Unit Capacity Factor (Using DER Net)	103.6%	98.1%	68.2%
23. Unit Forced Outage Rate	0.0%	0.9%	10.3%

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: July 2001

Docket No.: 50-280
Unit Name: Surry Unit 1
Date: 08/01/01
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: July 2001

Docket No.: 50-281
Unit Name: Surry Unit 2
Date: 08/01/01
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: 08/01/01
 Completed by: R. Stief
 Telephone: (757) 365-2486

MONTH: July 2001

Day	Average Daily Power Level (MWe - Net)	Day	Average Daily Power Level (MWe - Net)
1	811	17	816
2	814	18	816
3	816	19	817
4	816	20	818
5	815	21	819
6	816	22	819
7	816	23	817
8	818	24	816
9	817	25	816
10	816	26	816
11	816	27	818
12	816	28	819
13	816	29	820
14	817	30	820
15	817	31	819
16	816		

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: 08/01/01
 Completed by: R. Stief
 Telephone: (757) 365-2486

MONTH: July 2001

Day	Average Daily Power Level (MWe - Net)	Day	Average Daily Power Level (MWe - Net)
1	816	17	817
2	817	18	818
3	818	19	818
4	816	20	819
5	816	21	819
6	817	22	817
7	818	23	817
8	819	24	816
9	817	25	815
10	815	26	813
11	815	27	818
12	815	28	818
13	815	29	818
14	816	30	818
15	816	31	818
16	816		

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: July 2001

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:

07/01/01	0000	Unit started the month at 100% / 843 MWe.
07/31/01	2400	Unit finished the month at 100% / 849 MWe.

UNIT TWO:

07/01/01	0000	Unit started the month at 100% / 844 MWe.
07/31/01	2400	Unit finished the month at 100% / 845 MWe.

FACILITY CHANGES THAT DID NOT REQUIRE NRC APPROVAL

MONTH/YEAR: July 2001

None during the Reporting Period

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

MONTH/YEAR: July 2001

TM S1-01-008

Temporary Modification
(Safety Evaluation 01-043)

07/12/01

Temporary Modification S1-01-008 allowed the addition of portable instrumentation to monitor and record the time needed to pressurize the piston cooling manifold and main lube oil system following start of the Emergency Diesel Generator.

0-TOP-VS-003

Temporary Operating Procedure
(Safety Evaluation 01-045)

07/19/01

Temporary Operating Procedure 0-TOP-VS-003, "Single Chiller Single Loop Chilled Water Alignment", was written to verify that only one chiller is needed to maintain the required temperature in the Control Room Envelope with both units operating at 100% power.

TESTS AND EXPERIMENTS THAT DID NOT REQUIRE NRC APPROVAL

MONTH/YEAR: July 2001

None during the Reporting Period

CHEMISTRY REPORT

MONTH/YEAR: July 2001

Primary Coolant Analysis	Unit No. 1			Unit No. 2		
	Max.	Min.	Avg.	Max.	Min.	Avg.
Gross Radioactivity, $\mu\text{Ci/ml}$	2.80E-1	1.68E-1	2.18E-1	2.36E-1	1.42E-1	1.85E-1
Suspended Solids, ppm	-	-	-	-	-	-
Gross Tritium, $\mu\text{Ci/ml}$	3.61E-1	2.61E-1	3.18E-1	6.05E-1	4.78E-1	5.49E-1
^{131}I , $\mu\text{Ci/ml}$	3.62E-4	2.19E-4	2.78E-4	2.52E-4	6.56E-5	1.15E-4
$^{131}\text{I}/^{133}\text{I}$	0.09	0.06	0.07	0.16	0.05	0.08
Hydrogen, cc/kg	40.2	31.9	38.6	45.3	29.8	37.7
Lithium, ppm	1.88	1.37	1.59	2.32	2.11	2.23
Boron - 10, ppm*	49.8	25.6	39.8	162.2	148	156.6
Oxygen, (DO), ppm	≤ 0.005	≤ 0.005	≤ 0.005	≤ 0.005	≤ 0.005	≤ 0.005
Chloride, ppm	0.004	0.002	0.003	0.003	0.001	0.002
pH @ 25 degree Celsius	7.65	7.21	7.31	7.04	6.64	6.74

* Boron - 10 = Total Boron x 0.196

Comments:

None

**FUEL HANDLING
 UNITS 1 & 2**

MONTH/YEAR: July 2001

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
Dry Storage Cask TN 32-18	07/02/01	32	2G5	LM0MDJ	3.9761	N/A
			2G7	LM0MDM	3.9863	
			4U6	LM0NCK	4.0092	
			4G5	LM0MDA	3.9812	
			0H3	LM0RMX	3.8109	
			0H6	LM0RN0	3.8002	
			0H8	LM0RN2	3.8003	
			3S6	LM0ERV	3.5890	
			W20	LM040X	3.2030	
			1H1	LM0RN5	3.8048	
			0U2	LM0NB7	3.7826	
			2G3	LM0MD0	3.7985	
			1U6	LM0NBU	3.7944	
			2U5	LM0NBQ	3.7919	
			2G4	LM0ME1	3.7935	
			3G7	LM0MDT	3.9897	
			0G5	LM0MCX	3.7984	
			0G9	LM0MCR	3.8001	

**FUEL HANDLING
UNITS 1 & 2**

MONTH/YEAR: July 2001

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
			1G2	LM0MD6	3.8045	
			1G9	LM0MDW	3.7976	
			3G1	LM0MDQ	3.9840	
			W41	LM041Y	3.2030	
			W29	LM041A	3.2030	
			3G3	LM0MDF	3.9879	
			3U1	LM0NCA	3.9917	
			3G2	LM0MDH	3.9939	
			2G6	LM0MDL	3.9865	
			4G2	LM0MD4	3.9898	
			0G1	LM0ME2	3.7991	
			3G6	LM0MDG	3.9842	
			4G3	LM0MD8	3.9976	
			0G2	LM0MDX	3.8022	

**FUEL HANDLING
 UNITS 1 & 2**

MONTH/YEAR: July 2001

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
Dry Storage Cask TN 32-22	07/18/01	32	0D4	LM0ALR	3.5888	N/A
			T10	LM02JH	3.1100	
			3A1	LM04U4	3.3930	
			2C1	LM08N7	3.3990	
			2C5	LM08NQ	3.3990	
			3C0	LM08MY	3.3990	
			3C2	LM08MR	3.3990	
			3R2	LM0C1E	3.5966	
			3A4	LM04TX	3.3930	
			3C7	LM08MP	3.3990	
			0D2	LM0ALN	3.5888	
			1D3	LM0AMK	3.5888	
			3D7	LM0AN5	3.5998	
			4D0	LM0AMX	3.6083	
			4R0	LM0C2U	3.6026	
			T19	LM02JZ	3.1100	
5D8	LM0AMB	3.6106				
1E4	LM0DF9	3.6034				

**FUEL HANDLING
UNITS 1 & 2**

MONTH/YEAR: July 2001

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
			3E5	LM0DEU	3.5992	
			5E1	LM0DEY	3.6030	
			T14	LM02JQ	3.1100	
			0D1	LM0ALM	3.5888	
			2D5	LM0AM5	3.5888	
			0D5	LM0AM2	3.5888	
			0D6	LM0AMH	3.5888	
			1D8	LM0ALJ	3.5888	
			3D4	LM0ALH	3.5888	
			T01	LM02JS	3.1100	
			0C2	LM08NP	3.3990	
			0C4	LM08MF	3.3990	
			0C9	LM08MS	3.3990	
			1C3	LM08MZ	3.3990	

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

MONTH/YEAR: July 2001

None during the Reporting Period