

VIRGINIA ELECTRIC AND POWER COMPANY
RICHMOND, VIRGINIA 23261
September 10, 2001

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

Serial No. 01-551
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 August 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

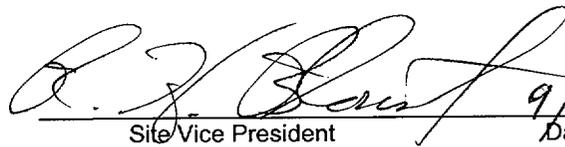
cc: United States Nuclear Regulatory Commission
Region II
Sam Nunn Atlanta Federal Center
61 Forsyth Street, SW, Suite 23 T85
Atlanta, Georgia 30303-8931

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

IE24

**VIRGINIA ELECTRIC AND POWER COMPANY
SURRY POWER STATION
MONTHLY OPERATING REPORT
REPORT NO. 01- 08**

Approved:



Site Vice President

9/10/01

Date

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OPERATING DATA REPORT

Docket No.: 50-280
 Date: 09/04/01
 Completed By: R. Stief
 Telephone: (757) 365-2486

- 1. Unit Name: Surry Unit 1
- 2. Reporting Period: August 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	5831.0	251519.0
12. Hours Reactor Was Critical	744.0	5793.9	184098.0
13. Reactor Reserve Shutdown Hours	0.0	0.0	3774.5
14. Hours Generator On-Line	744.0	5788.9	181509.6
15. Unit Reserve Shutdown Hours	0.0	0.0	3736.2
16. Gross Thermal Energy Generated (MWH)	1894162.9	14703353.8	431556101.6
17. Gross Electrical Energy Generated (MWH)	628409.0	4889220.0	141827623.0
18. Net Electrical Energy Generated (MWH)	606010.0	4736163.0	135387391.0
19. Unit Service Factor	100.0%	99.3%	72.2%
20. Unit Availability Factor	100.0%	99.3%	73.7%
21. Unit Capacity Factor (Using MDC Net)	100.6%	100.3%	68.9%
22. Unit Capacity Factor (Using DER Net)	103.4%	103.1%	68.3%
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: 09/04/01
 Completed By: R. Stief
 Telephone: (757) 365-2486

- 1. Unit Name:..... Surry Unit 2
- 2. Reporting Period:..... August 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	5831.0	248400.0
12. Hours Reactor Was Critical	744.0	5558.5	181147.4
13. Reactor Reserve Shutdown Hours	0.0	0.0	328.1
14. Hours Generator On-Line	744.0	5542.1	178953.2
15. Unit Reserve Shutdown Hours	0.0	0.0	0.0
16. Gross Thermal Energy Generated (MWH)	1894162.9	14056567.9	426278128.8
17. Gross Electrical Energy Generated (MWH)	628735.0	4704965.0	140115097.0
18. Net Electrical Energy Generated (MWH)	605600.0	4539963.0	133776270.0
19. Unit Service Factor	100.0%	95.0%	72.0%
20. Unit Availability Factor	100.0%	95.0%	72.0%
21. Unit Capacity Factor (Using MDC Net)	99.9%	95.5%	68.6%
22. Unit Capacity Factor (Using DER Net)	103.3%	98.8%	68.3%
23. Unit Forced Outage Rate	0.0%	0.8%	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: August 2001

Docket No.: 50-280
Unit Name: Surry Unit 1
Date: 09/04/01
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: August 2001

Docket No.: 50-281
Unit Name: Surry Unit 2
Date: 09/04/01
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: 09/04/01
 Completed by: R. Stief
 Telephone: (757) 365-2486

MONTH: August 2001

Day	Average Daily Power Level (MWe - Net)	Day	Average Daily Power Level (MWe - Net)
1	818	17	813
2	817	18	813
3	817	19	815
4	816	20	814
5	816	21	813
6	814	22	813
7	814	23	812
8	812	24	815
9	811	25	816
10	811	26	817
11	810	27	815
12	811	28	815
13	812	29	814
14	813	30	815
15	814	31	815
16	815		

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: 09/04/01
 Completed by: R. Stief
 Telephone: (757) 365-2486

MONTH: August 2001

Day	Average Daily Power Level (MWe - Net)	Day	Average Daily Power Level (MWe - Net)
1	819	17	812
2	818	18	813
3	817	19	814
4	817	20	814
5	817	21	815
6	815	22	814
7	815	23	813
8	813	24	815
9	813	25	816
10	813	26	816
11	812	27	816
12	814	28	815
13	814	29	814
14	814	30	814
15	813	31	814
16	812		

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: August 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:

08/01/01	0000	Unit started the month at 100% / 849 MWe.
08/31/01	2400	Unit finished the month at 100% / 844 MWe.

UNIT TWO:

08/01/01	0000	Unit started the month at 100% / 845 MWe.
08/31/01	2400	Unit finished the month at 100% / 850 MWe.

FACILITY CHANGES THAT DID NOT REQUIRE NRC APPROVAL

MONTH/YEAR: August 2001

None during the Reporting Period

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

MONTH/YEAR: August 2001

None during the Reporting Period

TESTS AND EXPERIMENTS THAT DID NOT REQUIRE NRC APPROVAL

MONTH/YEAR: August 2001

None during the Reporting Period

CHEMISTRY REPORT

MONTH/YEAR: August 2001

Primary Coolant Analysis	Unit No. 1			Unit No. 2		
	Max.	Min.	Avg.	Max.	Min.	Avg.
Gross Radioactivity, $\mu\text{Ci/ml}$	2.89E-1	1.47E-1	1.90E-1	2.37E-1	1.44E-1	1.76E-1
Suspended Solids, ppm	-	-	-	-	-	-
Gross Tritium, $\mu\text{Ci/ml}$	2.40E-1	1.10E-1	1.75E-1	7.36E-1	6.28E-1	6.84E-1
^{131}I , $\mu\text{Ci/ml}$	3.97E-4	2.15E-4	2.83E-4	1.76E-4	2.67E-5	1.08E-4
$^{131}\text{I}/^{133}\text{I}$	0.09	0.06	0.07	0.1	0.05	0.07
Hydrogen, cc/kg	38.7	36	37.6	41.5	39.4	40.3
Lithium, ppm	1.35	0.78	1.08	2.32	2.12	2.22
Boron - 10, ppm*	28.8	8.2	18.4	147.6	132.3	139.6
Oxygen, (DO), ppm	≤ 0.005					
Chloride, ppm	0.003	0.001	0.002	0.003	0.001	0.002
pH @ 25 degree Celsius	7.57	7.32	7.43	7.04	6.74	6.82

* Boron - 10 = Total Boron x 0.196

Comments:

None

**FUEL HANDLING
 UNITS 1 & 2**

MONTH/YEAR: August 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
Unit 1 Batch 20 Shipment #1	08/06/01	12	04E	LM1BEA	4.0789	559.44 GBq
			01E	LM1BE7	4.0965	
			02E	LM1BE8	4.0862	
			03E	LM1BE9	4.0778	
			05E	LM1BEB	4.0985	
			06E	LM1BEC	4.0981	
			08E	LM1BEE	4.0966	
			07E	LM1BED	4.0964	
			09E	LM1BEF	4.0894	
			10E	LM1BEG	4.0868	
			11E	LM1BEH	4.0974	
			12E	LM1BEJ	4.0984	
Unit 1 Batch 20 Shipment #2	08/07/01	12	13E	LM1BEK	4.0917	562.77 GBq
			15E	LM1BEM	4.1151	
			16E	LM1BEN	4.1170	
			14E	LM1BEL	4.0841	
			17E	LM1BEP	4.1074	
			18E	LM1BEQ	4.1147	

**FUEL HANDLING
 UNITS 1 & 2**

MONTH/YEAR: August 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
			20E	LM1BES	4.1135	
			19E	LM1BER	4.1132	
			21E	LM1BET	4.0963	
			22E	LM1BEU	4.1008	
			23E	LM1BEV	4.1044	
			24E	LM1BEW	4.0941	
Unit 1 Batch 20 Shipment #3	08/08/01	12	25E	LM1BEX	4.1017	562.40 GBq
			34E	LM1BF6	4.0984	
			29E	LM1BF1	4.1030	
			26E	LM1BEY	4.1025	
			27E	LM1BEZ	4.0980	
			28E	LM1BF0	4.0916	
			31E	LM1BF3	4.0988	
			30E	LM1BF2	4.1031	
			33E	LM1BF5	4.1021	
			32E	LM1BF4	4.1023	
			35E	LM1BF7	4.0937	
			36E	LM1BF8	4.0955	

**FUEL HANDLING
 UNITS 1 & 2**

MONTH/YEAR: August 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
Unit 1 Batch 20 Shipment #4	08/09/01	12	38E	LM1BFA	4.2488	579.79 GBq
			37E	LM1BF9	4.2489	
			40E	LM1BFC	4.2524	
			39E	LM1BFB	4.2514	
			41E	LM1BFD	4.2529	
			46E	LM1BFJ	4.2486	
			42E	LM1BFE	4.2500	
			43E	LM1BFF	4.2494	
			45E	LM1BFH	4.2442	
			44E	LM1BFG	4.2498	
			47E	LM1BFK	4.2495	
			48E	LM1BFL	4.2430	
Unit 1 Batch 20 Shipment #5	08/13/01	12	50E	LM1BFN	4.2428	580.16 GBq
			49E	LM1BFM	4.2485	
			52E	LM1BFQ	4.2394	
			51E	LM1BFP	4.2376	
			53E	LM1BFR	4.2471	
			54E	LM1BFS	4.2424	

**FUEL HANDLING
 UNITS 1 & 2**

MONTH/YEAR: August 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
			56E	LM1BFU	4.2375	
			55E	LM1BFT	4.2469	
			57E	LM1BFV	4.2425	
			58E	LM1BFW	4.2433	
			60E	LM1BFY	4.2500	
			59E	LM1BFX	4.2446	
Spent Fuel Cask TN-32-25	08/10/00	32	3E2	LM0DF0	3.6012	N/A
			2E6	LM0DFB	3.6002	
			0E7	LM0DF8	3.5979	
			3F6	LM0JHF	3.7973	
			3F9	LM0JH2	3.7935	
			4F0	LM0JGY	3.8046	
			4F2	LM0JH4	3.7968	
			3E9	LM0DFJ	3.6013	
			1E1	LM0DER	3.6028	
			4F5	LM0JGU	3.7965	
			4F6	LM0JGX	3.8089	
			T17	LM02K1	3.1100	

**FUEL HANDLING
UNITS 1 & 2**

MONTH/YEAR: August 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
			4F8	LM0JH1	3.7992	
			5F0	LM0JHH	3.7965	
			5E5	LM0DF3	3.6032	
			2E1	LM0DFG	3.5986	
			5F4	LM0JH6	3.8014	
			0R5	LM0C1M	3.5838	
			1R7	LM0C1D	3.5888	
			3R9	LM0C1B	3.5823	
			T15	LM02JX	3.1100	
			0N1	LM06FW	3.4060	
			T18	LM02JT	3.1100	
			0N4	LM06G8	3.4060	
			2N3	LM06GF	3.4060	
			1E2	LM0DFE	3.6011	
			3E6	LM0DEQ	3.6026	
			0E2	LM0DFM	3.6090	
			3F1	LM0JHD	3.7956	
			3F3	LM0JH3	3.7953	

**FUEL HANDLING
UNITS 1 & 2**

MONTH/YEAR: August 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
			3F4	LM0JHJ	3.7943	
			3F5	LM0JHB	3.8001	

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

MONTH/YEAR: August 2001

Description/Title

1. Technical Specification 4.20 required inspection of the Control Room Envelope Emergency Ventilation Fans were not performed within the required time limits

The above documented missed surveillance has been completed and the equipment was found to be capable of performing its specified safety functions.