

VIRGINIA ELECTRIC AND POWER COMPANY
RICHMOND, VIRGINIA 23261

April 8, 2005

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

Serial No. 05-221
SPS Lic/JSA R0
Docket Nos. 50-280
50-281
License Nos. DPR-32
DPR-37

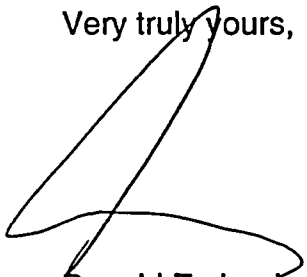
Gentlemen:

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 March 2005 is provided in the attachment.

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

Very truly yours,



Donald E. Jernigan,
Site Vice President
Surry Power Station

Attachment

Commitments made by this letter: None

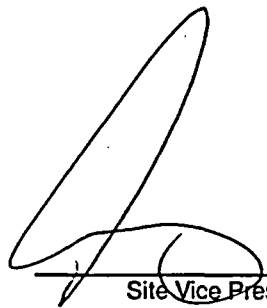
cc: United States Nuclear Regulatory Commission
Region II
Sam Nunn Atlanta Federal Center
61 Forsyth Street, SW, Suite 23 T85
Atlanta, Georgia 30303-8931

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. 05-03**

Approved:



Site Vice President

4/8/2005
Date

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OPERATING DATA REPORT

Docket No.: 50-280
Date: 04/04/05
Completed By: R. Stief
Telephone: (757) 365-2486

1. Unit Name: Surry Unit 1
2. Reporting Period: March 2005
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): 799
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: _____

11. Hours in Reporting Period
12. Hours Reactor Was Critical
13. Reactor Reserve Shutdown Hours
14. Hours Generator On-Line
15. Unit Reserve Shutdown Hours
16. Gross Thermal Energy Generated (MWH)
17. Gross Electrical Energy Generated (MWH)
18. Net Electrical Energy Generated (MWH)
19. Unit Service Factor
20. Unit Availability Factor
21. Unit Capacity Factor (Using MDC Net)
22. Unit Capacity Factor (Using DER Net)
23. Unit Forced Outage Rate
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):

	FORECAST	ACHIEVED
INITIAL CRITICALITY	_____	_____
INITIAL ELECTRICITY	_____	_____
COMMERCIAL OPERATION	_____	_____

OPERATING DATA REPORT

Docket No.: 50-281
Date: 04/04/05
Completed By: R. Stief
Telephone: (757) 365-2486

1. Unit Name: Surry Unit 2
2. Reporting Period:..... March 2005
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):..... 799
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: _____

11. Hours in Reporting Period
12. Hours Reactor Was Critical
13. Reactor Reserve Shutdown Hours
14. Hours Generator On-Line
15. Unit Reserve Shutdown Hours
16. Gross Thermal Energy Generated (MWH)
17. Gross Electrical Energy Generated (MWH)
18. Net Electrical Energy Generated (MWH)
19. Unit Service Factor
20. Unit Availability Factor
21. Unit Capacity Factor (Using MDC Net)
22. Unit Capacity Factor (Using DER Net)
23. Unit Forced Outage Rate
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):

	FORECAST	ACHIEVED
INITIAL CRITICALITY	_____	_____
INITIAL ELECTRICITY	_____	_____
COMMERCIAL OPERATION	_____	_____

**UNIT SHUTDOWN AND POWER REDUCTION
(EQUAL TO OR GREATER THAN 20%)**

REPORT MONTH: March 2005

Docket No.: 50-280
Unit Name: Surry Unit 1
Date: 04/04/05
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: March 2005

Docket No.: 50-281
Unit Name: Surry Unit 2
Date: 04/04/05
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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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: 04/04/05
 Completed by: R. Stief
 Telephone: (757) 365-2486

MONTH: March 2005

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

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: 04/04/05
Completed by: R. Stief
Telephone: (757) 365-2486

MONTH: March 2005

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

SUMMARY OF OPERATING EXPERIENCE

MONTH/YEAR: March 2005

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:

03/01/05	0000	Unit started the month at 100% / 854 MWe.
03/31/05	2400	Unit finished the month at 100% / 854 MWe

UNIT TWO:

03/01/05	0000	Unit started the month at 100% / 857 MWe.
03/31/05	2400	Unit finished the month at 100% / 857 MWe.

FACILITY CHANGES THAT DID NOT REQUIRE NRC APPROVAL

MONTH/YEAR: March 2005

None during the Reporting Period.

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

MONTH/YEAR: March 2005

None during the Reporting Period.

TESTS AND EXPERIMENTS THAT DID NOT REQUIRE NRC APPROVAL

MONTH/YEAR: March 2005

None during the Reporting Period

CHEMISTRY REPORT

MONTH/YEAR: March 2005

Primary Coolant Analysis	Unit No. 1			Unit No. 2		
	Max.	Min.	Avg.	Max.	Min.	Avg.
Gross Radioactivity, $\mu\text{Ci/ml}$	4.60E-1	2.39E-1	3.59E-1	2.55E-1	1.34E-1	1.95E-1
Suspended Solids, ppm	≤ 0.010	≤ 0.010	≤ 0.010	≤ 0.010	≤ 0.010	≤ 0.010
Gross Tritium, $\mu\text{Ci/ml}$	7.77E-1	6.43E-1	7.12E-1	7.30E-1	5.23E-1	6.24E-1
I^{131} , $\mu\text{Ci/ml}$	1.61E-4	7.55E-5	1.13E-4	1.06E-4	2.65E-5	6.13E-5
I^{131}/I^{133}	0.09	0.05	0.07	0.37	0.11	0.19
Hydrogen, cc/kg	38.5	35.3	36.9	43.6	39.4	40.9
Lithium, ppm	3.62	3.31	3.49	1.91	1.32	1.61
Boron - 10, ppm*	252	237	245	51	29	40
Oxygen, (DO), ppm	≤ 0.005	≤ 0.005	≤ 0.005	≤ 0.005	≤ 0.005	≤ 0.005
Chloride, ppm	0.014	0.012	0.012	0.001	0.001	0.001
pH @ 25 degree Celsius	6.67	6.52	6.59	7.42	7.24	7.31

* Boron - 10 = Total Boron x 0.196

Comments:

Unit 1: Unit at 100% power.

Unit 2: Unit at 100% power.

**FUEL HANDLING
UNITS 1 & 2**

MONTH/YEAR: March 2005

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
Spent Fuel Cask TN-32-44	03/02/05	32	0K8	LM0YKG	3.8197	N/A
			1X4	LM0ZWV	3.8153	
			1X5	LM0ZWW	3.8166	
			1X6	LM0ZWX	3.8024	
			1X7	LM0ZWY	3.8105	
			1X9	LM0ZX0	3.8176	
			2K1	LM0YKV	3.8179	
			2K2	LM0YKW	3.8136	
			2K3	LM0YKX	3.8081	
			2K4	LM0YKY	3.8177	
			2K5	LM0YKZ	3.8137	
			2K6	LM0YL0	3.8059	
			2K7	LM0YL1	3.8204	
			2K8	LM0YL2	3.8071	
			2K9	LM0YL3	3.8137	
			2X1	LM0ZX2	3.8136	
			2X4	LM0ZX5	3.8113	
			2X5	LM0ZX6	3.8257	

**FUEL HANDLING
UNITS 1 & 2**

MONTH/YEAR: March 2005

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
			3K0	LM0YL4	3.8135	
			3K1	LM0YL5	3.8139	
			3K2	LM0YL6	3.8138	
			6V2	LM0TUJ	3.9935	
			6W0	LM0X41	4.0151	
			6W1	LM0X46	4.0053	
			6W2	LM0X47	3.9994	
			6W3	LM0X48	4.0040	
			6W4	LM0X49	3.9940	
			6W5	LM0X4A	3.9982	
			6W6	LM0X4B	4.0006	
			6W8	LM0X4D	3.9910	
			D05	LM008E	3.3250	
			4G7	LM0MDC	3.9914	
Spent Fuel Cask TN-32-46	03/23/05	32	0W1	LM0X2E	3.8280	N/A
			0X1	LM0ZWG	3.8162	
			0X2	LM0ZWH	3.8136	
			0X6	LM0ZWM	3.8122	

**FUEL HANDLING
UNITS 1 & 2**

MONTH/YEAR: March 2005

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
			0X7	LM0ZWN	3.8095	
			0X8	LM0ZWP	3.8113	
			1W1	LM0X2Q	3.8067	
			1W2	LM0X2R	3.8122	
			1W6	LM0X2V	3.8004	
			1W9	LM0X2Y	3.8129	
			1X0	LM0ZWR	3.8277	
			1X2	LM0ZWT	3.8060	
			1X3	LM0ZWU	3.8184	
			2W0	LM0X2Z	3.8061	
			2W1	LM0X30	3.8150	
			2W3	LM0X32	3.8005	
			2W7	LM0X36	3.8083	
			3V5	LM0TTR	4.0012	
			4V0	LM0TTW	3.9937	
			4V5	LM0TU1	3.9932	
			4V9	LM0TU5	3.9991	
			4W0	LM0X3F	4.0042	

**FUEL HANDLING
UNITS 1 & 2**

MONTH/YEAR: March 2005

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
			4W7	LM0X3N	4.0034	
			4W8	LM0X3P	4.0053	
			5V2	LM0TU8	3.9932	
			5V5	LM0TUB	3.9877	
			5V8	LM0TUE	4.0017	
			5W0	LM0X3R	4.0055	
			5W1	LM0X3S	4.0034	
			5W2	LM0X3T	4.0061	
			5W6	LM0X3X	4.0130	
			5W8	LM0X3Z	4.0060	

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

MONTH/YEAR: March 2005

None during the Reporting Period