VIRGINIA ELECTRIC AND POWER COMPANY RICHMOND, VIRGINIA 23261

May 4, 2005

U. S. Nuclear Regulatory Commission Attention: Document Control Desk Washington, D.C. 20555-0001 Serial No. 05-266 SPS Lic/JSA R0 Docket Nos. 50-280 50-281 License Nos. DPR-32 DPR-37

Gentlemen:

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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 April 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

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VIRGINIA ELECTRIC AND POWER COMPANY SURRY POWER STATION MONTHLY OPERATING REPORT REPORT NO. 05-04

Date Site Vice President

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Approved:

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OPERATING DATA REPORT

Docket No.: 50-280 Date: 05/01/05 Completed By: R. Stief Telephone: (757) 365-2486

Unit Name: Surry Unit 1 Reporting Period: April 2005 Licensed Thermal Power (MWt):..... 2546 Nameplate Rating (Gross MWe): 847.5 Design Electrical Rating (Net MWe):..... 788 Maximum Dependable Capacity (Gross MWe):.... 840 799

Maximum Dependable Capacity (Net MWe):..... 7.

If Changes Occur in Capacity Ratings (Items Number 3 Through 7) Since Last Report, Give Reasons: 8.

9. Power Level To Which Restricted, If Any (Net MWe): _____

10. Reasons For Restrictions, If Any:

1.

2.

3.

4.

5.

6.

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11.	Hours in Reporting Period	719.00	2879.00	283631.00
12.	Hours Reactor Was Critical	719.00	2787.53	212188.93
13.	Reactor Reserve Shutdown Hours	0.00	0.00	3774.50
14.	Hours Generator On-Line	719.00	2756.97	209306.19
15.	Unit Reserve Shutdown Hours	0.00	0.00	3736.20
16.	Gross Thermal Energy Generated (MWH)	1829921.20	6999649.60	501484327.40
17.	Gross Electrical Energy Generated (MWH)	614164.00	2341694.00	165186969.00
18.	Net Electrical Energy Generated (MWH)	583771.00	2229581.00	156916980.00
19.	Unit Service Factor	100.00%	95.76%	73.80%
20.	Unit Availability Factor	100.00%	95.76%	75.11%
21.	Unit Capacity Factor (Using MDC Net)	101.62%	96.92%	70.52%
22.	Unit Capacity Factor (Using DER Net)	103.04%	98.28%	70.21%
23.	Unit Forced Outage Rate	0.00%	4.24%	11.56%

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

Type	and duration of sch	eduled shutdowns	are no longer	provided.	
	Reference: Letter \$	S/N 00-069, dated	February 7, 2	000]	

FORECAST

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]

ACHIEVED

26. Unit In Test Status (Prior to Commercial Operation):

INITIAL CRITICALITY	
INITIAL ELECTRICITY	
COMMERCIAL OPERATION	-

OPERATING DATA REPORT

799

 Docket No.:
 50-281

 Date:
 05/01/05

 Completed By:
 R. Stief

 Telephone:
 (757) 365-2486

1.	Unit Name:	Surry Unit 2
2.	Reporting Period:	April 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

Maximum Dependable Capacity (Gloss MWe)......
 Maximum Dependable Capacity (Net MWe)......

8. If Changes Occur in Capacity Ratings (Items Number 3 Through 7) Since Last Report, Give Reasons:

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9. Power Level To Which Restricted, If Any (Net MWe):

10. Reasons For Restrictions, If Any:

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	······································	This Month	Year-To-Date	Cumulative
11.	Hours in Reporting Period	719.00	2879.00	280512.00
12.	Hours Reactor Was Critical	551.60	2711.60	210303.42
13.	Reactor Reserve Shutdown Hours	0.00	0.00	328.10
14.	Hours Generator On-Line	551.15	2711.15	207764.32
15.	Unit Reserve Shutdown Hours	0.00	0.00	0.00
16.	Gross Thermal Energy Generated (MWH)	1394298.10	6891800.60	499394192.40
17.	Gross Electrical Energy Generated (MWH)	469068.00	2318510.00	164611355.00
18.	Net Electrical Energy Generated (MWH)	446079.00	2205846.00	156382291.00
19.	Unit Service Factor	76.66%	94.17%	74.07%
20.	Unit Availability Factor	76.66%	94.17%	74.07%
21.	Unit Capacity Factor (Using MDC Net)	77.65%	95.89%	70.74%
22.	Unit Capacity Factor (Using DER Net)	78.73%	97.23%	70.75%
23.	Unit Forced Outage Rate	0.00%	0.00%	9.15%

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

 Type and du	ration of scheduled st	utdowns are no l	onger provi	ided.
[Refere	ence: Letter S/N 00-06	9, dated Februar	y 7, 2000]	

25. If Shut Down at End of Report Period, Estimated Date of Start-up: Estimated start-up dates are no longer

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		

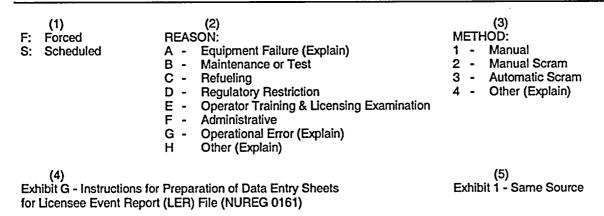
UNIT SHUTDOWN AND POWER REDUCTION (EQUAL TO OR GREATER THAN 20%)

REPORT MONTH: April 2005

Docket No.:	50-280
Unit Name:	Surry Unit 1
Date:	05/01/05
Completed by:	R. Stief
Telephone:	(757) 365-2486

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None during the Reporting Period



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

REPORT MONTH: April 2005

Docket No.: 50-281 Unit Name: Surry Unit 2 Date: 05/01/05 Completed by: R. Stief Telephone: (757) 365-2486

Date	(1) Туре	Duration Hours	(2) Reason	(3) Method of Shutting Down Rx	LER No.	(4) System Code	(5) Component Code	Cause & Corrective Action to Prevent Recurrence
04/24/05	S	167.85	С	1	N/A	N/A	N/A	Unit offline for refueling

(1)

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- F: Forced S:
- (2)
- Scheduled
- 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)**
- Н Other (Explain)

(3) METHOD:

1 -Manual

- 2 Manual Scram
- 3 Automatic Scram
- 4 Other (Explain)

(5) Exhibit 1 - Same Source

(4)

Exhibit G - Instructions for Preparation of Data Entry Sheets for Licensee Event Report (LER) File (NUREG 0161)

AVERAGE DAILY UNIT POWER LEVEL

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Docket No .:	50-280
Unit Name:	Surry Unit 1
Date:	05/01/05
Completed by:	R. Stief
Telephone:	(757) 365-2486

MONTH: April 2005

Day	Average Daily Power Level (MWe - Net)	Day	Average Daily Power Level (MWe - Net)
1	814	17	812
2	814	18	813
3	780	19	813
4	814	20	814
5	814	21	814
6	814	22	
7	814	23	812
8	814	24	791
9	813	25	808
10	814	26	809
11	812	27	810
12	813	28	
13	814	29	810
14	813	30	810
15	814		
16			

INSTRUCTIONS

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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.

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AVERAGE DAILY UNIT POWER LEVEL

50-281
Surry Unit 2
05/01/05
R. Stief
(757) 365-2486

MONTH: April 2005

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Day	Average Daily Power Level (MWe - Net)	Day	Average Daily Power Level (MWe - Net)
1	816	17	817
2	816	18	815
3	781	19	815
4	813	20	814
5	815	21	814
6	813	22	814
7	814	23	394
8	815	24	0
9	815	25	0
10	815	26	0
11	816	27	0
12	815	28	0
13	815	29	0
14	814	30	0
15	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.

SUMMARY OF OPERATING EXPERIENCE

MONTH/YEAR: April 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.

1

UNIT_ONE:		
04/01/05	0000	Unit started the month at 100% / 854 MWe.
04/30/05	2400	Unit finished the month at 100% / 854 MWe
UNIT TWO:		
04/01/05	0000	Unit started the month at 100% / 857 MWe.
04/23/05	1707	Commenced ramp down for refueling shutdown. Unit at 100% / 854 MWe.
04/23/05	2158	Stopped ramp for turnover. Unit at 20% / 110 MWe.
04/23/05	2326	Recommenced ramp. Unit at 20% / 108 MWe.
04/24/05	0000	Unit at 7% / 25 MWe.
04/24/05	0009	Unit offline.
04/24/05	0036	Reactor tripped.
04/30/05	2400	Unit finished the month at 0% / 0 MWe.

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FACILITY CHANGES THAT DID NOT REQUIRE NRC APPROVAL

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MONTH/YEAR: April 2005

None during the Reporting Period.

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

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MONTH/YEAR: April 2005

None during the Reporting Period.

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TESTS AND EXPERIMENTS THAT DID NOT REQUIRE NRC APPROVAL

MONTH/YEAR: April 2005

None during the Reporting Period

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CHEMISTRY REPORT

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MONTH/YEAR: April 2005

	Unit No. 1				Unit No. 2	
Primary Coolant Analysis	Max.	Min.	Avg	Max.	Min.	Avg.
Gross Radioactivity, µCi/ml	4.93E-1	2.49E-1	3.43E-1	6.21E-1	1.64E-3	1.59E-1
Suspended Solids, ppm	-	-	-	0.100	≤ 0.010	0.043
Gross Tritium, µCi/ml	1.00E+0	8.45E-1	9.44E-1	4.41E-1	2.68E-1	3.69E-1
l ¹³¹ , μCi/ml	9.56E-4	8.44E-5	1.52E-4	1.20E-4	3.04E-5	6.28E-5
1 ¹³¹ /1 ¹³³	0.11	0.05	0.08	0.21	0.09	0.15
Hydrogen, cc/kg	38.6	36.0	37.1	43.4	1.6	24.9
Lithium, ppm	3.51	3.13	3.32	1.31	0.10	0.62
Boron - 10, ppm*	238	224	231	495	13	263
Oxygen, (DO), ppm	≤ 0.005	≤ 0.005	≤ 0.005	8.00	≤ 0.005	2.815
Chloride, ppm	0.013	0.010	0.012	0.003	0.001	0.001
pH @ 25 degree Celsius	6.71	6.43	6.60	7.56	4.62	6.11

* Boron - 10 = Total Boron x 0.196

Comments:

Unit 1: Unit at 100% power. Quarterly Suspended Solids not required. Unit 2: Unit shutdown 04/24/2005 for RFO.

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FUEL HANDLING UNITS 1 & 2

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MONTH/YEAR: April 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
Unit 2 Batch 22 Shipment #1	04/04/05	12	06T	LM1L3Y	4.1022	565.27 GBq
			07T	LM1L40	4.1008	
			08T	LM1L41	4.1037	
			09T	LM1L42	4.1042	
			10T	LM1L43	4.0990	
			17T	LM1L4A	4.1028	
			29T	LM1L4R	4.2509	
			39T	LM1L52	4.2498	
			40T	LM1L53	4.2489	
			44T	LM1L57	4.2547	
			46T	LM1L59	4.2554	
Unit 2			48T	LM1L5C	4.2538	
Batch 22 Shipment #2	04/05/05	12	02T	LM1L3U	4.1014	565.41GBq
			03T	LM1L3V	4.1031	
			23T	LM1L4J	4.1175	
			24T	LM1L4K	4.1062	
			26T	LM1L4M	4.1045	
			27T	LM1L4N	4.0947	

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FUEL HANDLING UNITS 1 & 2

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MONTH/YEAR: April 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
			31T	LM1L4T	4.2473	
			32T	LM1L4U	4.2469	
			33T	LM1L4V	4.2476	
			35T	LM1L4X	4.2551	
			54T	LM1L5K	4.2537	
Unit 2			55T	LM1L5L	4.2508	
Batch 22 Shipment #3	04/06/05	12	04T	LM1L3W	4.1015	565.29 GBq
			05T	LM1L3X	4.0984	
			13T	LM1L46	4.1024	
			19T	LM1L4D	4.1028	
			20T	LM1L4E	. 4.1200	
			25T	LM1L4L	4.1042	
			30T	LM1L4S	4.2551	
			43T	LM1L56	4.2524	
			45T	LM1L58	4.2504	
			47T	LM1L5A	4.2539	
			50T	LM1L5E	4.2589	
			53T	LM1L5J	4.2515	

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FUEL HANDLING UNITS 1 & 2

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MONTH/YEAR: April 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
Unit 2 Batch 22 Shipment #4	04/07/05	12	01T	LM1L3T	4.1002	565.61 GBq
			11T	LM1L44	4.1031	
			12T	LM1L45	4.1019	
			14T	LM1L47	4.1048	
			18T	LM1L4C	4.1025	
			22T	LM1L4H	4.1111	
			37T	LM1L50	4.2525	
			41T	LM1L54	4.2475	
			42T	LM1L55	4.2486	
			49T	LM1L5D	4.2537	
			51T	LM1L5G	4.2597	
Unit 2			52T	LM1L5H	4.2563	
Batch 22 Shipment #5	04/08/05	8	15T	LM1L48	4.1032	376.72 GBq
			16T	LM1L49	4.1034	
			21T	LM1L4G	4.1044	
			28T	LM1L4P	4.1061	
			34T	LM1L4W	4.2546	
			36T	LM1L4Y	4.2465	

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FUEL HANDLING UNITS 1 & 2

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MONTH/YEAR: April 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
			38T	LM1L51	4.2502	
			56T	LM1L5M	4.2538	

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

MONTH/YEAR: April 2005

None during the Reporting Period