VIRGINIA ELECTRIC AND POWER COMPANY
RICHMOND, VIRGINIA 23261

April 7, 2000

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

Serial No.	00-205
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 2000 is provided in the attachment.

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

Very truly yours,

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

Attachment

Commitments made by this letter: None

cc: United States Nuclear Regulatory Commission
Region II
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. 00-03

Approved: _____ 4/7/2000
Site Vice President Date

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OPERATING DATA REPORT

Docket No.: 50-280
Date: 04/03/00
Completed By: R. Stief
Telephone: (757) 365-2486

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

		This Month	Year-To-Date	Cumulative
11.	Hours in Reporting Period	744.0	2184.0	239088.0
12.	Hours Reactor Was Critical	744.0	2184.0	172260.5
13.	Reactor Reserve Shutdown Hours	0.0	0.0	3774.5
14.	Hours Generator On-Line	744.0	2184.0	169715.4
15.	Unit Reserve Shutdown Hours	0.0	0.0	3736.2
16.	Gross Thermal Energy Generated (MWH)	1760284.1	5394139.1	401834387.5
17.	Gross Electrical Energy Generated (MWH)	585624.0	1793676.0	131939009.0
18.	Net Electrical Energy Generated (MWH)	564064.0	1731953.0	125834756.0
19.	Unit Service Factor	100.0%	100.0%	71.0%
20.	Unit Availability Factor	100.0%	100.0%	72.5%
21.	Unit Capacity Factor (Using MDC Net)	94.7%	99.0%	67.5%
22.	Unit Capacity Factor (Using DER Net)	96.2%	100.6%	66.8%
23.	Unit Forced Outage Rate	0.0%	0.0%	13.6%

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):

	FORECAST	ACHIEVED
INITIAL CRITICALITY		
INITIAL ELECTRICITY		
COMMERCIAL OPERATION		

OPERATING DATA REPORT

Docket No.: 50-281
Date: 04/03/00
Completed By: R. Stief
Telephone: (757) 365-2486

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

		This Month	Year-To-Date	Cumulative
11.	Hours in Reporting Period	744.0	2184.0	235969.0
12.	Hours Reactor Was Critical	744.0	2184.0	169713.1
13.	Reactor Reserve Shutdown Hours	0.0	0.0	328.1
14.	Hours Generator On-Line	744.0	2184.0	167572.4
15.	Unit Reserve Shutdown Hours	0.0	0.0	0.0
16.	Gross Thermal Energy Generated (MWH)	1892818.6	5557347.8	397585341.0
17.	Gross Electrical Energy Generated (MWH)	638699.0	1872604.0	130505502.0
18.	Net Electrical Energy Generated (MWH)	617047.0	1809962.0	124506819.0
19.	Unit Service Factor	100.0%	100.0%	71.0%
20.	Unit Availability Factor	100.0%	100.0%	71.0%
21.	Unit Capacity Factor (Using MDC Net)	103.5%	103.5%	67.4%
22.	Unit Capacity Factor (Using DER Net)	105.2%	105.2%	67.0%
23.	Unit Forced Outage Rate	0.0%	0.0%	10.9%

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		

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

REPORT MONTH: March 2000

Docket No.: 50-280
Unit Name: Surry Unit 1
Date: 04/03/00
Completed by: J. Pincus
Telephone: (757) 365-2863

None during the Reporting Period

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(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: March 2000

Docket No.: 50-281
Unit Name: Surry Unit 2
Date: 04/03/00
Completed by: J. Pincus
Telephone: (757) 365-2863

None during the Reporting Period

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(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: 04/03/00
Completed by: R. Stief
Telephone: (757) 365-2486

MONTH: March 2000

Day	Average Daily Power Level (MWe - Net)	Day	Average Daily Power Level (MWe - Net)
1	820	17	753
2	820	18	748
3	819	19	744
4	819	20	737
5	815	21	732
6	815	22	724
7	808	23	723
8	804	24	720
9	802	25	714
10	800	26	708
11	789	27	700
12	774	28	698
13	769	29	689
14	764	30	684
15	763	31	684
16	761		

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: 04/03/00
Completed by: R. Stief
Telephone: (757) 365-2486

MONTH: March 2000

Day	Average Daily Power Level (MWe - Net)	Day	Average Daily Power Level (MWe - Net)
1	829	17	830
2	829	18	829
3	830	19	830
4	829	20	829
5	832	21	829
6	833	22	829
7	832	23	828
8	830	24	826
9	829	25	830
10	829	26	831
11	829	27	831
12	831	28	829
13	831	29	827
14	831	30	830
15	830	31	817
16	830		

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 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:

03/01/00	0000	Unit started the month at 100% / 849 MWe.
03/07/00	0711	Commenced power coast at end of fuel cycle. Unit at 100% / 845 MWe.
03/31/00	2400	Unit finished the month at 83.7% / 710 MWe.

UNIT TWO:

03/01/00	0000	Unit started the month at 100% / 860 MWe.
03/31/00	0943	Commenced ramp down for turbine valve freedom test. Unit at 100% / 860 MWe.
03/31/00	1030	Stopped ramp at 95% to adjust IRPI / 815 Mwe.
03/31/00	1100	Recommenced ramp down. Unit at 95% / 815 MWe.
03/31/00	1148	Stopped ramp. Unit at 90% / 790 MWe.
03/31/00	1326	Commenced ramp up. Unit at 90% / 790 MWe.
03/31/00	1522	Unit at 100% / 857 MWe.
03/31/00	2400	Unit finished the month at 100% / 861 MWe.

FACILITY CHANGES THAT DID NOT REQUIRE NRC APPROVAL

MONTH/YEAR: March 2000

DCP 91-027 — **Design Change Package** — 03/25/93
(Safety Evaluation 93-060)

Design Change Package 91-027, "SI Pumps Cooling Modification (1/2-SI-P-1/2A,B)/Surry 1&2", replaced seal cooling coils with new seal coolers and added isolation valves at the seal and cooler of the loop seal cooling circuit for the low head safety injection and outside recirculation spray pumps. This eliminates the venting and filling difficulties with the cooling circuits that resulted in seal head tank low level alarms.

TM S1-00-005 — **Temporary Modification** — 03/07/00
(Safety Evaluation 00-026)

Temporary Modification S1-00-005 will supply fire protection water to the sprinkler fire protection system of the temporary trailers used on the turbine deck during the upcoming Unit 1 refueling outage.

TM S1-00-007 — **Temporary Modification** — 03/09/00
(Safety Evaluation 00-027)

Temporary Modification S1-00-007 allowed replacing of failed relay PRB-XA in the Unit 1 train "A" reactor protection circuit, without affecting other relays, by use of jumpers.

TM S1-00-008 — **Temporary Modification** — 03/12/00
(Safety Evaluation 00-031)

It was discovered that the handwheel to the manual outlet valve, for the Unit 1 Refueling Water Storage Tank (RWST) to the Refueling Water Recirculating Pumps, would not operate the valve. Temporary Modification S1-00-008 installs a strong back on top of the valve to assure the valve remains closed until it can be repaired.

TM S1-00-006 — **Temporary Modification** — 03/16/00
(Safety Evaluation 00-032)

Temporary Modification S1-00-006 installs a temporary blank at damper 02-VS-MOD-204A opening that maintains the Main Control Room isolation and EQ Barrier functions and allows for damper removal during maintenance.

TM S1-00-009 — **Temporary Modification** — 03/23/00
(Safety Evaluation 00-033)

Temporary Modification S1-00-009 installs a temporary jumper to eliminate cell 51 of the Low Level Intake Battery until the cell can be replaced.

SE 00-034 — **Safety Evaluation** — 03/23/00

Safety Evaluation 00-034 supports the procedurally controlled Temporary Modification to install a temporary barrier at fire door 02-BS-DR-21 to allow for the door's removal in support of maintenance activities.

FACILITY CHANGES THAT DID NOT REQUIRE NRC APPROVAL

MONTH/YEAR: March 2000

FS 00-015 — **UFSAR Change Request** — 03/23/00
(Safety Evaluation 00-035)

In response to Westinghouse NSAL-98-007, "Analysis Modeling of Pressurizer Heaters", August 11, 1998, UFSAR Change Request FS 00-015 describes the transient analyses of the loss of normal feedwater and loss of AC power to station auxiliaries accidents in the Surry UFSAR. This UFSAR change addresses a concern over the modeling of pressurizer heaters and sprays for events analyzed for pressurizer overfill and includes assumptions, method of analysis, results, and conclusions. It does not involve any changes to the plant systems, structures, and components.

DCP 99-053 — **Design Change Package** — 03/23/00
(Safety Evaluation 00-036)

During startup after the Unit 2 S2C15/16 Refueling Outage, RTD elements RC-TE-412-P1 and P2 were found to be inoperable due to measured resistance values being outside their tolerance. A Temporary Modification changed averaging 3 RTDs to averaging 2 RTDs in the "A" loop T-hot summator and conservative gains and biases were installed on the Tavg summator to offset potential effects of undetected streaming. Because additional nuisance alarms on high loop A Tavg were being generated, Design Change Package 99-053, "RC Loop 1 Delta-T and T-ave/Surry/Unit 2", removed some of the conservative bias that was initially injected into Loop "A" Thot by rescaling.

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

MONTH/YEAR: March 2000

1-MOP-SS-001 — **Maintenance Operating Procedure** — 03/02/00
(Safety Evaluation 00-023)

Maintenance Operating Procedure 1-MOP-SS-001, "Replacing 1-SS-RV-111", was written to provide instructions for replacing relief valve 1-SS-RV-111 with a tested valve. Relief valve 1-SS-RV-111 is in the Safety and Relief Valve Program and needs to be tested to assure the correct relief set point but can not be isolated or tested on line.

OP-23.2.11
OP-23.2.12 — **Operating Procedures** — 03/10/00
(Safety Evaluation 00-030)

Due to the inability to open one of the sampling valves for the Waste Gas Decay Tank (WGDT), Operating Procedures OP-23.2.11, "Sampling Alignment for WGDT 1A" and OP-23.2.12, "Sampling Alignment for WGDT 1B" were revised to obtain samples of the WGDT via a temporarily installed tube that directs gas from the WGDT's local sample station to the Waste Gas surge Drum.

TESTS AND EXPERIMENTS THAT DID NOT REQUIRE NRC APPROVAL

MONTH/YEAR: March 2000

None during the Reporting Period

CHEMISTRY REPORT

MONTH/YEAR: March 2000

Primary Coolant Analysis	Unit No. 1			Unit No. 2		
	Max.	Min.	Avg.	Max.	Min.	Avg.
Gross Radioactivity, μCi/ml	3.58E-1	1.29E-1	2.21E-1	2.18E-1	6.01E-2	1.46E-1
Suspended Solids, ppm	≤ 0.010	≤ 0.010	≤ 0.010	≤ 0.010	≤ 0.010	≤ 0.010
Gross Tritium, μCi/ml	3.49E-2	1.90E-2	2.75E-2	9.30E-1	8.12E-1	8.98E-1
I^{131}, μCi/ml	7.46E-4	2.95E-4	4.85E-4	≤ 1.14E-4	≤ 6.93E-5	≤ 9.02E-5
I^{131}/I^{133}	0.11	0.06	0.07	≤ 0.23	≤ 0.13	≤ 0.18
Hydrogen, cc/kg	39.0	33.1	36.2	37.5	34.1	36.0
Lithium, ppm	0.84	0.68	0.76	2.32	2.09	2.21
Boron - 10, ppm*	3.9	0.2	1.1	123.5	105.3	114.1
Oxygen, (DO), ppm	≤ 0.005	≤ 0.005	≤ 0.005	≤ 0.005	≤ 0.005	≤ 0.005
Chloride, ppm	0.002	0.001	0.001	0.007	0.001	0.004
pH @ 25 degree Celsius	9.79	7.15	9.09	7.16	6.84	6.94

* Boron - 10 = Total Boron x 0.196

Comments:

None

FUEL HANDLING
UNITS 1 & 2

MONTH/YEAR: March 2000

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

None during the Reporting Period

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

MONTH/YEAR: March 2000

None during the Reporting Period