VIRGINIA ELECTRIC AND POWER COMPANY Richmond, Virginia 23261

February 12, 1996

U. S. Nuclear Regulatory Commission Attention: Document Control Desk Washington, D. C. 20555 Serial No. 96-075 NO/RPC:vlh 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

Enclosed is the Monthly Operating Report for Surry Power Station Units 1 and 2 for the month of January 1996.

Very truly yours,

Mh Burling

M. L. Bowling, Manager Nuclear Licensing & Operations Support

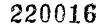
Enclosure

cc: U. S. Nuclear Regulatory Commission Region II 101 Marietta Street, N. W. Suite 2900 Atlanta, Georgia 30323

> Mr. M. W. Branch NRC Senior Resident Inspector Surry Power Station

> > PDR.

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VIRGINIA ELECTRIC AND POWER COMPANY SURRY POWER STATION MONTHLY OPERATING REPORT REPORT NO. 96-01

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Approved:

96 Station Manager Date

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TABLE OF CONTENTS

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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 No. 1	9
Summary of Operating Experience - Unit No. 2	9
Facility Changes That Did Not Require NRC Approval	
Procedure or Method of Operation Changes That Did Not Require NRC Approval	
Tests and Experiments That Did Not Require NRC Approval	12
Chemistry Report	13
Fuel Handling - Unit No. 1	
Fuel Handling - Unit No. 2	14
Description of Periodic Test(s) Which Were Not Completed Within the Time Limits Specified in Technical Specifications	15

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OPERATING DATA REPORT

		C	Docket No.: Date: Completed By: Telephone:	50-280 02-01-96 D. Mason (804) 365-2459
1. 2. 3. 4. 5. 6. 7.	Unit Name: Reporting Period: Licensed Thermal Power (MWt): Nameplate Rating (Gross MWe): Design Electrical Rating (Net MWe): Maximum Dependable Capacity (Gross MWe): Maximum Dependable Capacity (Net MWe):	Surry Unit 1 January, 1996 2546 847.5 788 840 801		
8.	If Changes Occur in Capacity Ratings (Items Numb	er 3 Through 7)	Since Last Repo	ort, Give Reasons:

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

10. Reasons For Restrictions, If Any:

•

		This Month	YTD	Cumulative
11.	Hours In Reporting Period	744.0	744.0	202584.0
12.	Number of Hours Reactor Was Critical	744.0	744.0	138794.7
13.	Reactor Reserve Shutdown Hours	0	0	3774.5
14.	Hours Generator On-Line	744.0	744.0	136491.0
15.	Unit Reserve Shutdown Hours	0	0	3736.2
16.	Gross Thermal Energy Generated (MWH)	1893918.5	1893918.5	318291711.0
17.	Gross Electrical Energy Generated (MWH)	634205.0	634205.0	104211388.0
18.	Net Electrical Energy Generated (MWH)	614423.0	614423.0	99070396.0
19.	Unit Service Factor	100.0%	100.0%	67.4%
20.	Unit Availability Factor	100.0%	100.0%	69.2%
21.	Unit Capacity Factor (Using MDC Net)	103.1%	103.1%	63.0%
22.	Unit Capacity Factor (Using DER Net)	104.8%	104.8%	62.1%
23.	Unit Forced Outage Rate	0.0%	0.0%	16.0%

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

25. If Shut Down at End of Report Period, Estimated Date of Start-up:

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

	FORECAST	ACHIEVED
INITIAL CRITICALITY INITIAL ELECTRICITY COMMERCIAL OPERATION		

OPERATING DATA REPORT

			Docket No.: Date: Completed By: Telephone:	50-281 02-01-96 D. Mason (804) 365-2459
1. 2. 3. 4. 5. 6. 7.	Unit Name: Reporting Period: Licensed Thermal Power (MWt): Nameplate Rating (Gross MWe): Design Electrical Rating (Net MWe): Maximum Dependable Capacity (Gross MWe): Maximum Dependable Capacity (Net MWe):	Surry Unit 2 January, 1996 2546 847.5 788 840 801	3	
8.	If Changes Occur in Capacity Ratings (Items Numb	er 3 Through 7)	Since Last Repo	ort, Give Reasons:

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

10. Reasons For Restrictions, If Any:

•.

	-	This Month	YTD	Cumulative
11.	Hours In Reporting Period	744.0	744.0	199464.0
12.	Number of Hours Reactor Was Critical	744.0	744.0	136246.9
13.	Reactor Reserve Shutdown Hours	0.0	0.0	328.1
14.	Hours Generator On-Line	744.0	744.0	134300.1
15.	Unit Reserve Shutdown Hours	0.0	0.0	0.0
16.	Gross Thermal Energy Generated (MWH)	1887258.1	1887258.1	314422312.1
17.	Gross Electrical Energy Generated (MWH)	629355.0	629355.0	102784999.0
18.	Net Electrical Energy Generated (MWH)	608707.0	608707.0	97719122.0
19.	Unit Service Factor	100.0%	100.0%	67.3%
20.	Unit Availability Factor	100.0%	100.0%	67.3%
21.	Unit Capacity Factor (Using MDC Net)	102.1%	102.1%	62.8%
22.	Unit Capacity Factor (Using DER Net)	103.8%	103.8%	62.2%
23.	Unit Forced Outage Rate	0.0%	0.0%	13.0%

24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each): Refueling, May 2, 1996, 37 Days

25. If Shut Down at End of Report Period, Estimated Date of Start-up:

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

	FORECAST	ACHIEVED
INITIAL CRITICALITY INITIAL ELECTRICITY COMMERCIAL OPERATION	· · · · · · · · · · · · · · · · · · ·	



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

REPORT MONTH: January, 1996

							U Com	ocket No.: Init Name: Date: pleted by: elephone:	50-280 Surry Unit 1 02-02-96 Craig Olsen (804) 365-2155
	(1)		(2)	(3) Method		(4)	(5)		
Date	Туре	Duration Hours	Reason	of Shutting Down Rx	LER No.	System Code	Component Code		Corrective Action to Recurrence

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)	(3) METHOD: 1 - Manual 2 - Manual Scram. 3 - Automatic Scram. 4 - Other (Explain)
	es for Preparation of Data Entry Sheets	(5) Exhibit 1 - Same Source.



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

REPORT MONTH: January, 1996

							Ur	Date:	Surry Unit 2 02-02-96
							•	leted by: lephone:	Craig Olsen (804) 365-2155
	(1)		(2)	(3) Method		(4)	(5)		
Date	Туре	Duration Hours	Reason	of Shutting Down Rx	LER No.	System Code	Component Code		Corrective Action to Recurrence

None During the Reporting Period

(1)	(2)	(3)
Forced	REASON:	METHOD:
: Scheduled	A - Equipment Failure (Explain)	1 - Manual
	B - Maintenance or Test	2 - Manual Scram.
	C - Refueling	3 - Automatic Scram
	D - Regulatory Restriction	4 - Other (Explain)
	E - Operator Training & Licensing Examination	,
	F - Administrative	
	G - Operational Error (Explain)	

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

Exhibit 1 - Same Source.

Surry Monthly Operating Report No. 96-01 Page 7 of 15

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AVERAGE DAILY UNIT POWER LEVEL

Docket No.:	50-280
Unit Name:	Surry Unit 1
Date:	02-08-96
Completed by:	Barry C. Bryant
Telephone:	(804) 365-2786

MONTH: January, 1996

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Day	Average Daily Power Level (MWe - Net)	Day	Average Daily Power Level (MWe - Net)		
1	828	17	824		
2	829	18	820		
3	829	19	817		
4	824	20	817		
5	828	21	824		
6	828	22			
7	829	23	826		
8	828	24	827		
9	828	25	826		
10	828	26			
11	828	27	827		
12	828	28	826		
13	828	29	825		
14	828	30	822		
15	828	31	824		
16	825				

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.

Surry Monthly Operating Report No. 96-01 Page 8 of 15

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AVERAGE DAILY UNIT POWER LEVEL

Docket No.:	50-281
Unit Name:	Surry Unit 2
Date:	02-08-96
Completed by:	Barry C. Bryant
Telephone:	(804) 365-2786

MONTH: January, 1996

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Day	Average Daily Power Level Day (MWe - Net)		Average Daily Power Level (MWe - Net)		
1	822	17	823		
2	822	18	751		
3	823	19	786		
4	823	20	819		
5	823	21	819		
6	822	22	820		
7	823	23	819		
8	823	24	818		
9	823	25			
10	822	26	820		
11	823	27	821		
12	823	28	819		
13	822	29	822		
14	823	30	822		
15	822	31	821		
16	822				

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.



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SUMMARY OF OPERATING EXPERIENCE

MONTH/YEAR: January, 1996

The following chronological sequence by unit is a summary of operating experiences for this month which required load reductions or resulted in significant non-load related incidents.

UNIT ONE:

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01/01/96	0000	The reporting period began with the unit operating at 100% power, 850 MWe.
01/31/96	2400	The reporting period ended with the unit operating at 100% power, 855 MWe.

<u>UNIT TWO:</u>

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01/01/96	0000	The reporting period began with the unit operating at 100% power, 850 MWe.
01/18/96	0920	Started power reduction to maintain condenser vacuum while "B" waterbox was removed from service.
	1030	Stopped power reduction at 88%, 740 MWe.
01/19/96	0547	Started power increase.
	1245	Stopped power increase at 100%, 840 MWe.
01/31/96	2400	The reporting period ended with the unit operating at 100% power, 845 MWe.

FACILITY CHANGES THAT DID NOT REQUIRE NRC APPROVAL

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MONTH/YEAR: January, 1996

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DR S-95-2650	Deviation Report1-02-9(Safety Evaluation No. 96-001)
	Safety Evaluation 96-001 assessed Deviation Report S-95-2650 concerning the loss capability to obtain a sample from the Unit 1 pressurizer vapor space. The samplir capability was lost as a result of inoperable sample system trip valves which must be maintained in a closed position to satisfy containment integrity requirements.
	The evaluation concluded that this condition is acceptable since there are alternat means of sampling the Reactor Coolant System (RCS). Compliance with Technic Specification sampling surveillance requirements continues to be maintained usir routine samples obtained from the RCS Letdown Subsystem. Therefore, an unreviewer safety question does not exist.
FS 95-41	Updated Final Safety Analysis Report Change 1/16/9 (Safety Evaluation No. 96-003)
	UFSAR Change 95-41 revised Section 14.2.6, "Startup of an Inactive Reactor Coola Loop," to delete references to the loop stop valve interlocks and discussions regarding a power Startup of an Inactive Loop (SUIL) accidents.
	The requirements regarding loop stop valve interlocks were removed from the Technic Specifications by Amendment Nos. 177/176 since the interlocks are no longer credited the SUIL accident analysis. The discussions of at-power SUIL accidents were remove from the UFSAR since the Technical Specifications preclude the occurrence of suc accidents at conditions other than Refueling or Cold Shutdown. These changes a consistent with the current licensing basis. Therefore, an unreviewed safety questic does not exist.
FS 96-03	Updated Final Safety Analysis Report Change 1/30/9 (Safety Evaluation No. 96-006)
	UFSAR Change 96-03 revised Section 11.2.3, "Liquid Waste Disposal System," to refle the replacement of the radioactive liquid waste demineralization system with an ic exchange/demineralization system at the Surry Radwaste Facility.
	The new system will ensure that the effluent release will not exceed 0.1 curies per year, a well as minimizing solid waste disposal. This change will not affect any safety-relate systems and will not reduce the margin of safety as defined by the Technic Specifications. Therefore, an unreviewed safety question does not exist.



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

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MONTH/YEAR: January, 1996

0-OPT-VS-002	Operations Periodic Test (Safety Evaluation No. 96-004)	Procedure	1-20-9) 6
		I to provide instructions	"Auxiliary Ventilation Filter Trais for administratively controlling the arging pump cubicle.	
	secured. This change allows the activities while the charging purcontrols are provided in the pro- lieu of the normal automatic closes a safety injection on either unit. unit while the subject damper is	ne damper to be manu imp is removed from s cedure to allow 2-VS-M sure function) within fiv The procedure also p under administrative of g and proper operation	ten the Unit 2 "B" charging pump ally cycled to support maintenance ervice. Appropriate administrativ OD-201B to be manually closed (re minutes following the initiation rohibits refueling activities on either ontrol. These measures will ensur- of the Auxiliary Ventilation system st.	ce /e in of er re
1[2]-CSP-HRS-003	Chemistry Surveillance F (Safety Evaluation No. 96-005)	rocedures	1-23-9	96
	System: Sampling Containment	Air Chemistry Test and stratively controlling sp	-003, "High Radiation Samplin Operator Training," were revised ecific containment isolation valve	tõ
	accident containment integrity.	The administrative cor og testing while ensuri	red to be closed to maintain po trols provided by this change allo ng compliance with the Technic ion does not exist.	w
0-OPT-VS-002	Operations Periodic Test (Safety Evaluation No. 96-007)	Procedure	1-30-9	€
	Operations Periodic Test Prod Test," was temporarily change exhaust damper, 2-VS-MOD-20	ed to provide instruction	"Auxiliary Ventilation Filter Tra ons for administratively controllir arging pump cubicle.	in 1g
	secured. This change allows t activities while the charging pu controls are provided in the pro- lieu of the normal automatic clo a safety injection on either unit. unit while the subject damper is	he damper to be manu imp is removed from s cedure to allow 2-VS-M sure function) within fiv The procedure also p under administrative of g and proper operation	ten the Unit 2 "C" charging pump ally cycled to support maintenance ervice. Appropriate administrativ OD-201C to be manually closed (re minutes following the initiation rohibits refueling activities on eithe ontrol. These measures will ensur- of the Auxiliary Ventilation syster estion does not exis	in of re re

TESTS AND EXPERIMENTS THAT DID NOT REQUIRE NRC APPROVAL

MONTH/YEAR: January, 1996

1-ST-314

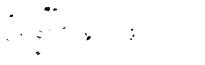
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Special Test (Safety Evaluation 95-077) 1-12-96

Special Test 1-ST-314, "Steam Generator Moisture Carryover Measurement," was conducted to determine the moisture carryover performance for the Unit 1 steam generators (SG) at the 98% and 100% power levels in order to predict the moisture carryover value at core uprated conditions (i.e., 2546 MWt).

The tests involved the injection of a radioactive tracer (Sodium-24) into each main feedwater (MFW) line downstream of the MFW regulating valves and sampling the main steam lines, SG blowdown, and the common feedwater pump discharge header.

The testing procedures employed controls to prevent any impact on feedwater system performance or the reactor protection function of the SG level circuitry. Therefore, an unreviewed safety question does not exist.



Surry Monthly Operating Report No. 96-01 Page 13 of 15

CHEMISTRY REPORT

MONTH/YEAR: January, 1996

	Unit No. 1		Unit No. 2			
Primary Coolant Analysis	Max.	Min.	Avg.	Max.	Min.	Avg.
Gross Radioactivity, μCi/ml	8.95E-1	6.65E-1	8.02E-1	2.11E-1	1.20E-1	1.62E-1
Suspended Solids, ppm	≤0.01	≤0.01	≤0.01	≤0.01	≤0.01	≤0.01
Gross Tritium, μCi/ml	6.55E-1	5.28E-1	5.91E-1	3.20E-1	2.46E-1	2.86E-1
¹³¹ , μCi/ml	2.58E-2	1.17E-2	1.79E-2	2.36E-4	8.43E-5	1.31E-4
131 _/ 133	1.23	0.81	0.95	··· 0.12	0.05	0.08
Hydrogen, cc/kg	40.6	34.8	36.7	41.4	32.8	35.9
Lithium, ppm	2.33	2.06	2.20	2.25	2.06	2.16
Boron - 10, ppm*	210.3	198.2	204.3	112.3	95.6	103.9
Oxygen, (DO), ppm	≤0.005	≤0.005	≤0.005	≤0.005	≤0.005	≤0.005
Chloride, ppm	0.009	0.004	0.006	0.005	≤0.001	0.003
pH at 25 degree Celsius	6.69	6.53	6.61	7.12	6.88	7.04

* Boron - 10 = Total Boron x 0.196

Comments:

None

Surry Monthly Operating Report No. 96-01 Page 14 of 15

FUEL HANDLING UNITS 1 & 2

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MONTH/YEAR: January, 1996

New or Spent		Number of				New or Spent
Fuel Shipmen	t Date Stored or	Assemblies	Assembly	ANSI	Initial	Fuel Shipping
Number	Received	per Shipment	Number	Number	Enrichment	Cask Activity

No Fuel Received or Stored During the Reporting Period



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

MONTH/YEAR: January, 1996

None During the Reporting Period