

VIRGINIA ELECTRIC AND POWER COMPANY
RICHMOND, VIRGINIA 23261
February 14, 2001

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

Serial No. 01-094
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 January 2001 is provided in the attachment.

The Unit Fuel Handling report for the July 2000 Monthly Operating Report 00-07 did not identify a fuel assembly change-out in cask TN-32-01 when an anomaly was noted during cask offload. This information has been submitted on page fourteen of this report.

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

Very truly yours,



R. H. Blount II, Site Vice President
Surry Power Station

Attachment

Commitments made by this letter: None

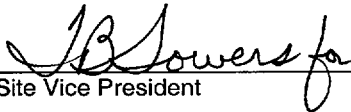
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cc: United States Nuclear Regulatory Commission
Region II
Sam Nunn Atlanta Federal Center
61 Forsyth Street, SW, Suite 23 T85
Atlanta, Georgia 30303-8931

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

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

Approved:


Site Vice President

2/14/2001
Date

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OPERATING DATA REPORT

Docket No.: 50-280
 Date: 02/02/01
 Completed By: R. Stief
 Telephone: (757) 365-2486

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

Maximum Dependable Capacity (Net MWe) value for Surry has been revised to reflect increased unit output resulting from performance upgrades and improvements.

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	744.0	246432.0
12. Hours Reactor Was Critical	744.0	744.0	179048.1
13. Reactor Reserve Shutdown Hours	0.0	0.0	3774.5
14. Hours Generator On-Line	744.0	744.0	176464.7
15. Unit Reserve Shutdown Hours	0.0	0.0	3736.2
16. Gross Thermal Energy Generated (MWH)	1891840.9	1891840.9	418744588.7
17. Gross Electrical Energy Generated (MWH)	631852.0	631852.0	137570255.0
18. Net Electrical Energy Generated (MWH)	609600.0	609600.0	131260828.0
19. Unit Service Factor	100.0%	100.0%	71.6%
20. Unit Availability Factor	100.0%	100.0%	73.1%
21. Unit Capacity Factor (Using MDC Net)	101.2%	101.2%	68.2%
22. Unit Capacity Factor (Using DER Net)	104.0%	104.0%	67.6%
23. Unit Forced Outage Rate	0.0%	0.0%	13.2%

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: 02/02/01

Completed By: R. Stief

Telephone: (757) 365-2486

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

Maximum Dependable Capacity (Net MWe) value for Surry has been revised to reflect increased unit output resulting from performance upgrades and improvements.

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	744.0	243313.0
12. Hours Reactor Was Critical	744.0	744.0	176332.9
13. Reactor Reserve Shutdown Hours	0.0	0.0	328.1
14. Hours Generator On-Line	744.0	744.0	174155.1
15. Unit Reserve Shutdown Hours	0.0	0.0	0.0
16. Gross Thermal Energy Generated (MWH)	1894162.9	1894162.9	414115723.8
17. Gross Electrical Energy Generated (MWH)	638040.0	638040.0	136048172.0
18. Net Electrical Energy Generated (MWH)	615961.0	615961.0	129852268.0
19. Unit Service Factor	100.0%	100.0%	71.6%
20. Unit Availability Factor	100.0%	100.0%	71.6%
21. Unit Capacity Factor (Using MDC Net)	101.6%	101.6%	68.1%
22. Unit Capacity Factor (Using DER Net)	105.1%	105.1%	67.7%
23. Unit Forced Outage Rate	0.0%	0.0%	10.5%

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: January 2001

Docket No.: 50-280

Unit Name: Surry Unit 1

Date: 02/02/01

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: January 2001

Docket No.: 50-281
Unit Name: Surry Unit 2
Date: 02/02/01
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: 02/02/01
 Completed by: R. Stief
 Telephone: (757) 365-2486

MONTH: January 2001

Day	Average Daily Power Level (MWe - Net)	Day	Average Daily Power Level (MWe - Net)
1	821	17	817*
2	820*	18	820*
3	821*	19	802*
4	820*	20	820*
5	821*	21	820*
6	821*	22	820*
7	821*	23	820*
8	820*	24	820*
9	820*	25	820*
10	821*	26	820*
11	821*	27	811*
12	820*	28	820*
13	821*	29	820*
14	820*	30	821*
15	820*	31	824
16	817*		

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.

*** NOTE:**

Figures for January 2 – 30 were calculated due to the degraded condition of the Megawatt Integrator.

AVERAGE DAILY UNIT POWER LEVEL

Docket No.: 50-281

Unit Name: Surry Unit 2

Date: 02/02/01

Completed by: R. Stief

Telephone: (757) 365-2486

MONTH: January 2001

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

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: January 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:

01/01/01	0000	Unit started the month at 100% / 851 MWe.
01/05/01	1015	"B" phase voltage of Main Generator Exciter reads 2% lower accounting for lower MWe reading.
01/05/01	1705	Testing indicates the degraded MWe metering "B" phase line connection accounts for 3-5 Mwe loss.
01/19/01	0019	Commenced ramp down to 90% for 1-OSP-TM-001.
01/19/01	0108	Stopped ramp at 90% power / 760 MWe (indicated).
01/19/01	0553	Commenced ramp to 100% power.
01/19/01	0642	Ramp stopped at 97.5% / 825 MWe (indicated) for turnover.
01/19/01	0905	Unit at 100% / 841 MWe (indicated).
01/27/01	0052	Commenced ramp to 90% power for 1-OSP-TM-001.
01/27/01	0153	Completed ramp. Unit at 90% / 765 MWe (indicated).
01/27/01	0430	Unit at 100% / 830 MWe (indicated).
01/30/01	1800	Temporary Modification installed for MW, VARS and "B" Phase voltage indication.
01/31/01	2400	Unit finished the month at 100% / 851 MWe.

UNIT TWO:

01/01/01	0000	Unit started the month at 100% / 855 MWe.
01/31/01	2400	Unit finished the month at 100% / 855 MWe.

FACILITY CHANGES THAT DID NOT REQUIRE NRC APPROVAL

MONTH/YEAR: January 2001

DCP 93-033	Design Change Package (Safety Evaluation 93-135)	06/17/93
	Design Change Package 93-033, "MI Programs Plant Walkdowns/USI A-46 and IPEEE (Seismic)/Surry/Units 1 & 2" required walkdowns and modifications to be performed to implement the seismic portion of the Individual Plant Examination of External Events (IPEEE) program for Unresolved Safety Issue (USI) A-46, "Verification of Seismic Adequacy of Mechanical and Electrical Equipment in Operating Reactors".	
DCP 99-085	Design Change Package (Safety Evaluation 99-117)	12/09/99
	Design Change Package 99-085, "Permanent Water Shields for Reactor Head Stand/Surry/Units 1 & 2" replaced the existing fiberglass water shield tanks inside containment with stainless steel water shields for radiation shielding inside the Reactor Head Stand.	
TM S2-00-014, Rev. 1	Temporary Modification (Safety Evaluation 00-144)	01/03/01
	Temporary Modification S2-00-014 substitutes a Safety Injection accumulator relief valve for the existing one that is leaking nitrogen. Revision 1 revised the support configuration design after field information was available.	
TSR 00-056	Temporary Shielding Request (Safety Evaluation 01-002)	01/18/01
	Temporary Shielding Request 00-056 installs temporary shielding on check valve 1-CH-478 and surrounding piping to reduce personnel exposure during work and passage in the area. The shielding will remain until hot spots in the area can be removed or until the shielding is made permanent by a future Design Change.	
TM S2-01-001	Temporary Modification (Safety Evaluation 01-004)	01/23/01
	Temporary Modification S2-01-001 installed an electrical jumper to ensure that channel IV steam flow indication for loop FC-495 remained in service while the resistor on the steam flow selector switch was being replaced.	
TM S1-01-001	Temporary Modification (Safety Evaluation 01-005)	01/25/01
	Temporary Modification S1-01-001 provides the necessary material and wiring changes to remove the degraded B-Phase potential from the Megawatt Integrator in the Main Control Room and reconfigure the Integrator using A-Phase and C-Phase potentials.	

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

MONTH/YEAR: January 2001

0-MCM-1910-10

Mechanical Corrective Maintenance Procedure
(Safety Evaluations 01-003, 006)

01/18/01

01/25/01

Mechanical Corrective Maintenance Procedure 0-MCM-1910-10, "Maintenance of Swinging Safety-Related Special Purpose Fire Doors", was revised to incorporate the installation of temporary seals on doors 1-BS-DR-14 and 2-BS-DR-27 to maintain the barrier's functions and allow for floor seals removal during maintenance and repair.

TESTS AND EXPERIMENTS THAT DID NOT REQUIRE NRC APPROVAL

MONTH/YEAR: January 2001

None during the Reporting Period

CHEMISTRY REPORT

MONTH/YEAR: January 2001

Primary Coolant Analysis	Unit No. 1			Unit No. 2		
	Max.	Min.	Avg.	Max.	Min.	Avg.
Gross Radioactivity, $\mu\text{Ci/ml}$	2.76E-1	1.50E-1	2.05E-1	2.34E-1	1.40E-1	1.97E-1
Suspended Solids, ppm	-	-	-	-	-	-
Gross Tritium, $\mu\text{Ci/ml}$	1.08E+0	1.01E+0	1.03E+0	8.68E-1	6.31E-1	6.94E-1
I^{131} , $\mu\text{Ci/ml}$	3.10E-4	9.98E-5	2.31E-4	2.23E-4	7.59E-5	1.16E-4
$\text{I}^{131}/\text{I}^{133}$	0.11	0.03	0.08	0.18	0.06	0.09
Hydrogen, cc/kg	43	39.9	41.3	39.4	30.6	33.5
Lithium, ppm	2.34	2.11	2.22	2.42	2.15	2.3
Boron - 10, ppm*	165.8	147.8	156.2	250.3	238.3	244.4
Oxygen, (DO), ppm	≤ 0.005	≤ 0.005	≤ 0.005	≤ 0.005	≤ 0.005	≤ 0.005
Chloride, ppm	0.013	0.01	0.011	0.007	0.005	0.006
pH @ 25 degree Celsius	6.97	6.63	6.72	6.55	6.31	6.42

* Boron - 10 = Total Boron x 0.196

Comments:

None

**FUEL HANDLING
UNITS 1 & 2**

MONTH/YEAR: January 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
Spent Fuel Cask TN-32-01	07/06/00	1	D05	LM008E	3.3250	Visible blister noted on the assembly after being removed from the cask.
	07/19/00	1	5S4	LM0ERU	3.6005	Fuel loaded from spent fuel pool to cask as replacement for assembly D05
Spent Fuel Cask TN-32-07	01/24/01	32	0P1	LM05Y5	3.6070	Fuel unloaded from cask due to potential fuel leak
			0P8	LM05XF	3.6070	
			0R8	LM0C1R	3.5947	
			0S8	LM0ESV	3.5955	
			1P2	LM05XG	3.6070	
			1P8	LM05X6	3.6070	
			1R4	LM0C1W	3.5986	
			2C4	LM08MK	3.3990	
			2E2	LM0DFS	3.5973	
			2P0	LM05X9	3.6070	
			2P1	LM05XB	3.6070	
			2P2	LM05X4	3.6070	

**FUEL HANDLING
UNITS 1 & 2**

MONTH/YEAR: January 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
			2P2	LM05X4	3.6070	
			2P4	LM05XN	3.6070	
			2P6	LM05XX	3.6070	
			3P1	LM05XP	3.6070	
			3P4	LM05YC	3.6070	
			4C0	LM08N8	3.3990	
			4P2	LM05YT	3.6070	
			4P3	LM05YB	3.6070	
			4P4	LM05YM	3.6070	
			4P6	LM05YL	3.6070	
			5E4	LM0DEH	3.6048	
			5P2	LM05Y9	3.6070	
			5P3	LM05XU	3.6070	
			5P4	LM09PH	3.6070	
			5P5	LM05XM	3.6070	
			5P8	LM05YD	3.6070	
			5R2	LM0C2D	3.5971	
			5R6	LM0C1Z	3.5901	

**FUEL HANDLING
UNITS 1 & 2**

MONTH/YEAR: January 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
Spent Fuel Cask TN-32-07	01/25/01	32	5R9	LM0C2B	3.5885	Fuel loaded to cask as replacements
			6P5	LM09PG	3.6070	
			6P7	LM05YJ	3.6070	
			3U3	LM0NCE	4.0093	
			4U0	LM0NC9	3.9886	
			5U2	LM0NCL	4.0008	
			2U8	LM0NBW	3.7914	
			2U2	LM0NBV	3.7955	
			2U4	LM0NBL	3.7941	
			2U3	LM0NBR	3.7933	
			2U7	LM0NBP	3.7853	
			0U3	LM0NB8	3.7943	
			0U4	LM0NB9	3.7868	
			3U5	LM0NCH	4.0090	
			0U5	LM0NB5	3.7952	
			3U8	LM0NC8	4.0054	
			3U4	LM0NBZ	4.0058	
			1U5	LM0NBJ	3.7943	

**FUEL HANDLING
 UNITS 1 & 2**

MONTH/YEAR: January 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
			1U2	LM0NBX	3.7948	
			2U1	LM0NBY	3.8033	
			2U6	LM0NBS	3.7849	
			1U7	LM0NBK	3.7833	
			1U3	LM0NBG	3.8009	
			0U1	LM0NB6	3.7763	
			0U6	LM0NBA	3.7948	
			0U7	LM0NBD	3.7953	
			4T0	LM0K98	3.7985	
			3T9	LM0K9D	3.7939	
			3T8	LM0K9G	3.7987	
			3T7	LM0K82	3.7892	
			1B1	LM08LM	3.2170	
			0B6	LM08LT	3.2170	
			0B3	LM08LS	3.2170	
			0B2	LM08LV	3.2170	
			0B1	LM08M2	3.2170	

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

MONTH/YEAR: January 2001

None during the Reporting Period