

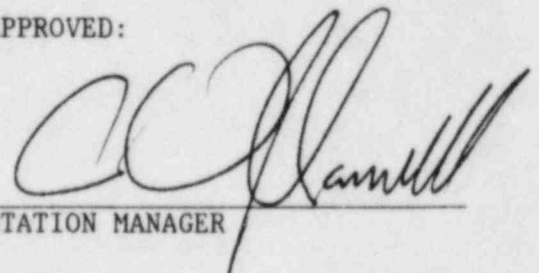
VIRGINIA ELECTRIC AND POWER COMPANY

NORTH ANNA POWER STATION

MONTHLY OPERATING REPORT

MONTH October YEAR 1984

APPROVED:



STATION MANAGER

8412110508 841031
PDR ADOCK 05000338
R PDR

IE 24
11

OPERATING DATA REPORT

DOCKET NO. 50-338
DATE 11-05-84
COMPLETED BY Joan N. Lee
TELEPHONE (703) 894-5151 X2527

OPERATING STATUS

1. Unit Name: North Anna 1
2. Reporting Period: October, 1984
3. Licensed Thermal Power (MWt): 2775
4. Nameplate Rating (Gross MWe): 947
5. Design Electrical Rating (Net MWe): 907
6. Maximum Dependable Capacity (Gross MWe): 937
7. Maximum Dependable Capacity (Net MWe): 890
8. If Changes Occur in Capacity Ratings (Items No. 3 thru 7) Since Last Report, Give Reasons:

N/A

9. Power Level To Which Restricted, If Any (Net MWe): N/A
10. Reasons For Restrictions, If Any: N/A

	This Month	Yr.-to-Date	Cumulative
11. Hours In Reporting Period	745	7,320	55,761
12. Number of Hours Reactor Was Critical	742.4	3,342.3	36,928.8
13. Reactor Reserve Shutdown Hours	48.5	55.6	3,084.2
14. Hours Generator On-Line	678.2	3,137	35,825.6
15. Unit Reserve Shutdown Hours	0	0	0
16. Gross Thermal Energy Generated (MWH)	1,619,344	8,253,820	93,305,593
17. Gross Electrical Energy Generated (MWH)	541,437	27,901,132	30,174,322
18. Net Electrical Energy Generated (MWH)	510,955	2,646,351	28,477,525
19. Unit Service Factor	91.0	42.8	64.2
20. Unit Availability Factor	91.0	42.8	64.2
21. Unit Capacity Factor (Using MDC Net)	77.1	40.6	57.4
22. Unit Capacity Factor (Using DER Net)	75.6	39.8	56.3
23. Unit Forced Outage Rate	9.0	26.7	15.5
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 Startup:
26. Units In Test Status (Prior to Commercial Operation):

Forecast

Achieved

INITIAL CRITICALITY
INITIAL ELECTRICITY
COMMERCIAL OPERATION

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-338
UNIT NAME North Anna 1
DATE 11-05-84
COMPLETED BY Joan Lee
TELEPHONE (703) 894-5151 X2527

REPORT MONTH October, 1984

No.	Date	Type ¹	Duration (Hours)	Reason ²	Method of Shutting Down Reactor ³	Licensee Event Report #	System Code 4	Component Code 5	Cause & Corrective Action to Prevent Recurrence
84-16	840930	F	4.0	A	3	NA	NA	NA	Continuation of Reactor trip due to Lo-Lo Level in steam generator. Ended month of September with Unit 1 in Mode 2. At 0401 October 1, 1984 Unit 1 on line.
84-17	841012	F	62.8	H	3	LER-84-18	NA	NA	Reactor tripped due to loss of power supply to the EHC System. Repairs were made and Unit 1 returned to 100%. Ended this month with unit at 100% power.

¹
F: Forced
S: Scheduled

²
Reason:
A-Equipment Failure (Explain)
B-Maintenance or Test
C-Refueling
D-Regulatory Restriction
E-Operator Training & License Examination
F-Administrative
G-Operational Error (Explain)
H-Other (Explain)

³
Method:
1-Manual
2-Manual Scram.
3-Automatic Scram
4-Continuations
5-Load Reduction
9-Other

⁴
Exhibit F - Instructions for Preparation of Data Entry Sheets for Licensee Event Report (LER) File (NUREG-0161)

⁵
Exhibit H - Same Source

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-338

UNIT NA-1

DATE 11-05-84

COMPLETED BY Joan N. Lee

TELEPHONE 703-894-5151X2527

MONTH October

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>150</u>	17	<u>890</u>
2	<u>216</u>	18	<u>890</u>
3	<u>233</u>	19	<u>893</u>
4	<u>236</u>	20	<u>895</u>
5	<u>275</u>	21	<u>893</u>
6	<u>596</u>	22	<u>896</u>
7	<u>699</u>	23	<u>893</u>
8	<u>852</u>	24	<u>892</u>
9	<u>884</u>	25	<u>891</u>
10	<u>885</u>	26	<u>892</u>
11	<u>885</u>	27	<u>889</u>
12	<u>579</u>	28	<u>886</u>
13	<u>0</u>	29	<u>887</u>
14	<u>0</u>	30	<u>886</u>
15	<u>514</u>	31	<u>887</u>
16	<u>891</u>		

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.

UNIT SHUTDOWN AND POWER REDUCTIONS

EXPLANATION SHEET DOCKET NO. 50-338

REPORT MONTH October UNIT NAME NA-1

YEAR 1984 DATE 11-05-84

COMPLETED BY Joan Lee

84-17 (F) (1) Reactor tripped on October 12, 1984, at 1546. The trip was caused by loss of power supply in the EHC System. Repairs were made and Unit 1 was on line October 15, 1984 at 0629. Ended this month with unit at 100% power.

VIRGINIA ELECTRIC AND POWER COMPANY
NORTH ANNA POWER STATION

UNIT NO. 1

MONTH October

SUMMARY OF OPERATING EXPERIENCE

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

<u>DATE</u>	<u>TIME</u>	<u>DATA</u>
October 1, 1984	0000	Began this month with Unit in Mode 2.
	0350	Entered Mode 1.
	0401	Unit one on line.
	0530	Holding at 25% (220 MW) due to problems with FCV-1488.
	1917	Commenced increasing power to 30% (245 MW) power.
	1928	Stabilized power at 30% (245 MW).
October 5, 1984	1300	Commenced ramp up at 3% per hour.
	1835	Stabilized power at 40% (435 MW) to perform flux mapping.
October 6, 1984	0317	Stabilized power at 60% (534 MW) for flux mapping.
	0403	Commenced ramp up to 70% (623 MW).
	0700	Stabilized power at 69% (614 MW) for flux mapping.
	0744	Commenced ramp up to 75% (663 MW).
October 7, 1984	1100	Continued ramp up at 3% per hour to 100%.
October 8, 1984	1620	Unit at 100% (926 MW) power.
October 12, 1984	1546	Reactor trip from 100% power due to loss of power supply in the EHC System.
	1731	Reactor critical.

VIRGINIA ELECTRIC AND POWER COMPANY
NORTH ANNA POWER STATION

UNIT NO. 1

MONTH October

SUMMARY OF OPERATING EXPERIENCE

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

<u>DATE</u>	<u>TIME</u>	<u>DATA</u>
October 15, 1984	0530	Latched turbine - commenced rolling power level at 4% per hour.
	0629	Unit 1 on line.
	0718	Holding at 30% (245 MW) power to verify chemistry in steam generator.
	0730	Commenced ramp up at 150 MW per hour.
	1330	Holding at 90% (874 MW) for Calorimetric.
	1640	Calorimetric complete - Unit at 100% (936 MW) power.
October 31, 1984	2400	Ended this month with Unit at 100% power.

OPERATING DATA REPORT

DOCKET NO. 50-339
 DATE 11-05-84
 COMPLETED BY Joan N. Lee
 TELEPHONE (703) 894-5151 X2527

OPERATING STATUS

Notes:

1. Unit Name: North Anna 2
2. Reporting Period: October, 1984
3. Licensed Thermal Power (MWt): 2775
4. Nameplate Rating (Gross MWe): 947
5. Design Electrical Rating (Net MWe): 907
6. Maximum Dependable Capacity (Gross MWe): 939
7. Maximum Dependable Capacity (Net MWe): 890
8. If Changes Occur in Capacity Ratings (Items No. 3 thru 7) Since Last Report, Give Reasons:

N/A

9. Power Level To Which Restricted, If Any (Net MWe): N/A
10. Reasons For Restrictions, If Any: N/A

	This Month	Yr.-to-Date	Cumulative
11. Hours In Reporting Period	745	7,320	34,032
12. Number of Hours Reactor Was Critical	0	4,781.0	24,468.7
13. Reactor Reserve Shutdown Hours	0	14.6	3,794.6
14. Hours Generator On-Line	0	4,713	24,220.1
15. Unit Reserve Shutdown Hours	0	0	0
16. Gross Thermal Energy Generated (MWH)	0	12,215,461	62,632,502
17. Gross Electrical Energy Generated (MWH)	0	4,026,505	20,740,872
18. Net Electrical Energy Generated (MWH)	0	3,812,307	19,664,389
19. Unit Service Factor	0	64.4	71.2
20. Unit Availability Factor	0	64.4	71.2
21. Unit Capacity Factor (Using MDC Net)	0	58.5	64.9
22. Unit Capacity Factor (Using DER Net)	0	57.4	63.7
23. Unit Forced Outage Rate	0	3.1	15.2
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 Startup: November 2, 1984
26. Units In Test Status (Prior to Commercial Operation):

Forecast

Achieved

INITIAL CRITICALITY
 INITIAL ELECTRICITY
 COMMERCIAL OPERATION

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO.	50-339
UNIT NAME	North Anna 2
DATE	11-05-84
COMPLETED BY	Joan Lee
TELEPHONE	(703) 894-5151 X2527

REPORT MONTH October

No.	Date	Type ¹	Duration (Hours)	Reason ²	Method of Shutting Down Reactor ³	Licensee Event Report #	System Code ⁴	Component Code ⁵	Cause & Corrective Action to Prevent Recurrence
84-34	840802	S	745	D/C	1	LER-006	NA	NA	On August 2, 1984 at 1834 Unit 2 commenced ramping down due to unqualified protective coating on Containment Venti- lation Ductwork. Unit 2 remained off line for scheduled refueling outage. Outage continued this month. Ended this month with Unit 2 in Mode 4. Expected on line date is November 2, 1984.

1	2	3
F: Forced	Reason:	Method:
S: Scheduled	A-Equipment Failure (Explain)	1-Manual
	B-Maintenance or Test	2-Manual Scram.
	C-Refueling	3-Automatic Scram
	D-Regulatory Restriction	4-Continuations
	E-Operator Training & License Examination	5-Load Reduction
	F-Administrative	9-Other
	G-Operational Error (Explain)	
	H-Other (Explain)	

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

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Exhibit H - Same Source

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-339

UNIT NA-2

DATE 11-05-84

COMPLETED BY Joan N. Lee

TELEPHONE 703-894-5151X2527

MONTH October

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>0</u>	17	<u>0</u>
2	<u>0</u>	18	<u>0</u>
3	<u>0</u>	19	<u>0</u>
4	<u>0</u>	20	<u>0</u>
5	<u>0</u>	21	<u>0</u>
6	<u>0</u>	22	<u>0</u>
7	<u>0</u>	23	<u>0</u>
8	<u>0</u>	24	<u>0</u>
9	<u>0</u>	25	<u>0</u>
10	<u>0</u>	26	<u>0</u>
11	<u>0</u>	27	<u>0</u>
12	<u>0</u>	28	<u>0</u>
13	<u>0</u>	29	<u>0</u>
14	<u>0</u>	30	<u>0</u>
15	<u>0</u>	31	<u>0</u>
16	<u>0</u>		

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.

UNIT SHUTDOWN AND POWER REDUCTIONS

EXPLANATION SHEET DOCKET NO. 50-339

REPORT MONTH October UNIT NAME NA-2

YEAR 1984 DATE 11-05-84

COMPLETED BY Joan Lee

No entries this month.

VIRGINIA ELECTRIC AND POWER COMPANY
NORTH ANNA POWER STATION

UNIT NO. 2

MONTH October

SUMMARY OF OPERATING EXPERIENCE

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

<u>DATE</u>	<u>TIME</u>	<u>DATA</u>
October 1, 1984	0000	Began this month with Unit 2 in Mode 5 for continuation of scheduled Refueling Outage.
October 29, 1984	0720	Entered Mode 4.
October 31, 1984	2400	Ended this month with Unit in Mode 4.

VIRGINIA ELECTRIC AND POWER COMPANY
RICHMOND, VIRGINIA 23261

W. L. STEWART
VICE PRESIDENT
NUCLEAR OPERATIONS

November 15, 1984

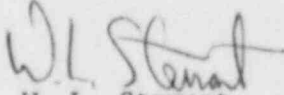
Mr. Maurice R. Beebe
Office of Resource Management
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Serial No. 671
NO/JHL:acm
Docket Nos. 50-338
50-339
License Nos. NPF-4
NPF-7

Dear Mr. Beebe:

Enclosed is the Monthly Operating Report for North Anna Power Station Unit Nos. 1 and 2 for the month of October, 1984.

Very truly yours,


W. L. Stewart

Enclosure (3 copies)

cc: Mr. R. C. DeYoung, Director (12 copies)
Office of Inspection and Enforcement

Mr. James P. O'Reilly (1 copy)
Regional Administrator
Region II

Mr. M. W. Branch
NRC Resident Inspector
North Anna Power Station

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