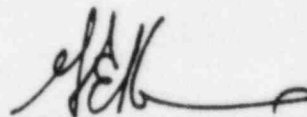


VIRGINIA POWER COMPANY
NORTH ANNA POWER STATION
MONTHLY OPERATING REPORT

MONTH April YEAR 1985

APPROVED:



STATION MANAGER

for

IE 24
1/1

8507180279 850430
PDR ADOCK 05000338
R PDR

OPERATING DATA REPORT

DOCKET NO. 50-338
 DATE 05-03-85
 COMPLETED BY Brenda Garner
 TELEPHONE (703) 894-5151 X2527

OPERATING STATUS

1. Unit Name: North Anna 1
2. Reporting Period: April, 1985
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): 941
7. Maximum Dependable Capacity (Net MWe): 893
8. If Changes Occur in Capacity Ratings (Items No. 3 thru 7) Since Last Report, Give Reasons

Changes due to adjustment of Aux. Loads and MSR Modifications

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	719	2879	60,107
12. Number of Hours Reactor Was Critical	719	2879	41,250.7
13. Reactor Reserve Shutdown Hours	0	0	3,084.2
14. Hours Generator On-Line	719	2851.8	39,964
15. Unit Reserve Shutdown Hours	0	0	0
16. Gross Thermal Energy Generated (MWH)	1,991,429	7,619,714	104,479,376
17. Gross Electrical Energy Generated (MWH)	672,807	2,574,313	33,946,498
18. Net Electrical Energy Generated (MWH)	640,294	2,445,997	32,061,975
19. Unit Service Factor	100.0	99.0	66.5
20. Unit Availability Factor	100.0	99.0	66.5
21. Unit Capacity Factor (Using MDC Net)	99.7	95.1	59.7
22. Unit Capacity Factor (Using DER Net)	98.2	93.7	58.8
23. Unit Forced Outage Rate	0	0.9	11.2
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:

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

Forecast

Achieved

INITIAL CRITICALITY
 INITIAL ELECTRICITY
 COMMERCIAL OPERATION

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-338

UNIT NA-1

DATE 05-03-85

COMPLETED BY Brenda Garner

TELEPHONE 703-894-5151X252

MONTH April, 1985

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>894</u>	17	<u>893</u>
2	<u>894</u>	18	<u>893</u>
3	<u>894</u>	19	<u>893</u>
4	<u>895</u>	20	<u>892</u>
5	<u>895</u>	21	<u>852</u>
6	<u>891</u>	22	<u>892</u>
7	<u>878</u>	23	<u>891</u>
8	<u>891</u>	24	<u>890</u>
9	<u>891</u>	25	<u>892</u>
10	<u>891</u>	26	<u>886</u>
11	<u>895</u>	27	<u>890</u>
12	<u>894</u>	28	<u>892</u>
13	<u>894</u>	29	<u>892</u>
14	<u>894</u>	30	<u>891</u>
15	<u>894</u>	31	<u></u>
16	<u>893</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 April UNIT NAME NA-1

YEAR 1985 DATE 05-03-85

COMPLETED BY Brenda Garner

No entries this month.

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO.	50-338
UNIT NAME	North Anna 1
DATE	05-03-85
COMPLETED BY	Brenda Garner
TELEPHONE	(703) 894-5151 X2527

REPORT MONTH April, 1985

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
85-11	850421	S	NA	H	5	NA	NA	NA	Ramped Unit 1 Down for Load Following Unit returned to 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

VIRGINIA POWER
NORTH ANNA POWER STATION

UNIT NO. 1

MONTH April

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>
April 1, 1985	0000	Began this month with Unit at 100% power - 940 MW.
April 21, 1985	0243	Commenced load reduction on Unit to 850MW 90% power for load follow.
	0320	Commenced load reduction to 800 MW - 85% power for load follow.
	0348	Commenced load reduction to 750 MW - 78% power for load follow.
	0420	Unit stabilized at 750 MW - 78% power
	0530	Commenced load reduction of 50 MW for load follow.
	0549	Unit stabilized at 705 MW - 70% power.
	0715	Commenced power increase to 100% power.
	0810	Stabilized reactor power at 900 MW - 90% for calorimetric.
	0840	Calorimetric complete - Commenced to ramp up 925 MW - 100% power
	0921	Unit at 100% power - 940 MW
April 30, 1985	2400	Ended this month with Unit at 100% power.

OPERATING DATA REPORT

DOCKET NO. 50-339
DATE 05-03-85
COMPLETED BY Brenda Garner
TELEPHONE (703) 894-5151 X2527

OPERATING STATUS

Notes:

1. Unit Name: North Anna 2
2. Reporting Period: April, 1985
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): 941
7. Maximum Dependable Capacity (Net MWe): 893
8. If Changes Occur in Capacity Ratings (Items No. 3 thru 7) Since Last Report, Give Reasons

Changes due to adjustment of Aux. Loads

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	719	2,879	38,375
12. Number of Hours Reactor Was Critical	699.7	2,820.2	28,610.6
13. Reactor Reserve Shutdown Hours	19.3	28.5	4,014.3
14. Hours Generator On-Line	623.8	2,614.7	28,019.8
15. Unit Reserve Shutdown Hours	0	0	0
16. Gross Thermal Energy Generated (MWH)	1,551,537	6,389,794	71,890,035
17. Gross Electrical Energy Generated (MWH)	516,263	2,123,735	23,821,000
18. Net Electrical Energy Generated (MWH)	489,020	2,009,790	22,579,052
19. Unit Service Factor	86.7	90.8	73.0
20. Unit Availability Factor	86.7	90.8	73.0
21. Unit Capacity Factor (Using MDC Net)	76.1	78.1	65.9
22. Unit Capacity Factor (Using DER Net)	75	77	64.9
23. Unit Forced Outage Rate	6.6	9.9	6.8
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

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-339

UNIT NA-2

DATE 05-03-85

COMPLETED BY Brenda Garner

TELEPHONE 703-894-5151X2527

MONTH April

DAY AVERAGE DAILY POWER LEVEL
(MWe-Net)

1	<u>881</u>
2	<u>878</u>
3	<u>878</u>
4	<u>883</u>
5	<u>883</u>
6	<u>868</u>
7	<u>883</u>
8	<u>882</u>
9	<u>885</u>
10	<u>887</u>
11	<u>888</u>
12	<u>887</u>
13	<u>886</u>
14	<u>842</u>
15	<u>885</u>
16	<u>885</u>

DAY AVERAGE DAILY POWER LEVEL
(MWe-Net)

17	<u>884</u>
18	<u>125</u>
19	<u>6</u>
20	<u>186</u>
21	<u>374</u>
22	<u>812</u>
23	<u>882</u>
24	<u>884</u>
25	<u>881</u>
26	<u>317</u>
27	<u>0</u>
28	<u>72</u>
29	<u>246</u>
30	<u>667</u>
31	<u></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 April UNIT NAME NA-2

YEAR 1985 DATE 05-03-85

COMPLETED BY Brenda Garner

- 85-15 (1) On April 18, 1985 at 0608 Unit 2 taken off line due to high unidentified RCS leakage. Unit 2 returned to 100% power on April 21, 1985 at 1952.
- 85-18 (2) On April 26, 1985 at 0915 Unit 2 Automatic Reactor Trip. Loss of 2-I Vital Bus due to 125 volt D.C. bus supply Breaker to inverter was opened inadvertently. Unit 2 returned to 100% power on April 30, 1985 at 1130.

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO.	50-339
UNIT NAME	North Anna 2
DATE	05-03-85
COMPLETED BY	Brenda Garner
TELEPHONE	(703) 894-5151 X2527

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
85-13	850406	S	NA	H	5	NA	NA	NA	Ramped Unit 2 down for load following. Unit returned to 100% power.
85-14	850414	S	NA	H	5	NA	NA	NA	Ramped Unit 2 down for load following. Unit returned to 100% power.
85-15	850418	F	40.7	A	1	NA	NA	NA	Ramped down Unit 2 off line for high unidentified RCS leakage. Unit returned to 100% power on April 21, 1985 at 1952.
85-16	850422	S	NA	H	5	NA	NA	NA	Ramped Unit 2 down for load following. Unit returned to 100% power.
85-17	850426	S	NA	H	5	NA	NA	NA	Ramped Unit 2 down for load following.

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)	

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

5
Exhibit H - Same Source

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO.	50-339
UNIT NAME	North Anna 2
DATE	05-03-85
COMPLETED BY	Brenda Garner
TELEPHONE	(703) 894-5151 X2527

REPORT MONTH April

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
85-18	850426	F	54.5	H	3	NA	NA	NA	Reactor trip due to loss of 2-I Vital Bus. Returned to 100% power on April 30, 1985 at 1130.

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)	

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

5
Exhibit H - Same Source

VIRGINIA ELECTRIC AND POWER COMPANY
NORTH ANNA POWER STATION

UNIT NO. 2

MONTH April

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>
April 1, 1985	0000	Began this month with Unit 2 at 100% power. 935 MW
April 6, 1985	0233	Commenced rampdown for load follow.
	0326	Stabilized Unit at 83% - 790 MW
	0441	Commenced ramp up to 100% power.
	0628	Calorimetric complete at 98% power. Commenced ramp up to 100% power.
	0636	Unit at to 100% power - 930 MW.
April 14, 1985	0125	Commenced rampdown of 300 MW for a load follow.
	0311	Stabilized power 70% - 675 MW
	0516	Commenced ramp up to 100% power.
	0625	Stabilized at 90% for calorimetric
	0725	Calorimetric complete Unit at 100% power.
April 18, 1985	0038	Commenced rampdown at 150 MW/hr due to high unidentified leakage
	0608	Unit 2 off line. Mode 2
April 19, 1985	2234	Reactor in Mode 1.
	2248	Unit 2 on line
	2345	Unit stabilized at 30% power - 243 MW for Chemistry hold.

VIRGINIA ELECTRIC AND POWER COMPANY
NORTH ANNA POWER STATION

UNIT NO. 2

MONTH April

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>
April 20, 1985	2039	Commenced rampdown power to 10% - 70 MW to repair 2-RC-6.
	2125	Stabilized power at 10%.
April 21, 1985	0120	Commenced ramp up to 30% power.
	0207	Stabilized Unit at 30% power 240 MW (Chemistry Hold).
	1514	Commenced ramp up to 100% power.
	1630	Holding Unit at 50% power - MW to start HP heater drain pumps.
	1650	Commenced ramp up to 100% power
	1700	Stabilized at 55% power - 600 MW to start Main Feed Pump.
	1706	Commenced ramp up to 100% power
	1843	Holding unit at 90% power for calorimetric
	1915	Commenced ramp up to 100% power
	1952	Stabilized at 100% power 933 MW
	2340	Commenced rampdown to 800 MW for load follow.
April 22, 1985	0000	Stabilized Unit at 800 MW for load following
	0045	Commenced rampdown to 640 MW - 85% power for load follow.
	0234	Commenced 50 MW load reduction for load follow.

VIRGINIA ELECTRIC AND POWER COMPANY
NORTH ANNA POWER STATION

UNIT NO. 2

MONTH April

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>
April 22, 1985	0245	Unit at 590 MW - 77% power and holding
	0412	Commence ramp up 625 MW - 80% power
	0439	Commence ramp up 700 MW - 87% power
	0525	Commence ramp up 790 MW - 90% power
	0555	Stabilized Unit at 935 MW - 100% power
April 26, 1985	0100	Commenced rampdown 100 MW due to load follow
	0144	System operator requested additional 50 MW reduction
	0208	Stabilized Unit at 80% power - 790 MW
	0430	Commenced ramp up to 100% power
	0455	Stabilized Unit at 87% power - 840 MW
	0510	Commenced ramp up to 100% power
	0555	Stabilized Unit at 100% power - 930 MW
	0915	Reactor Trip due to loss of Vital Bus 2-1.
April 27, 1985	0435	Enter Mode 2
April 28, 1985	1515	Unit in Mode 1
	1544	Unit on line
	1635	Stabilized Unit at 30% power- 250 MW Chemistry hold

VIRGINIA ELECTRIC AND POWER COMPANY
NORTH ANNA POWER STATION

UNIT NO. 2

MONTH April

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>
April 30, 1985	0539	Commence ramp up to 100% power.
	1130	Stabilized unit at 100% power - 925 MW
	2400	Ended this month with unit at 100% power.



VIRGINIA POWER

May 15, 1985

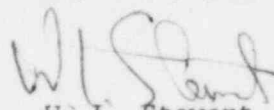
Mr. Maurice R. Beebe
Office of Resource Management
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Serial No. 85-341
NO/DAS: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 April, 1985.

Very truly yours,


W. L. Stewart

Enclosure (3 copies)

cc: Mr. J. M. Taylor, Director (12 copies)
Office of Inspection and Enforcement

Mr. J. Nelson Grace (1 copy)
Regional Administrator
Region II

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

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