


VIRGINIA POWER COMPANY
NORTH ANNA POWER STATION
MONTHLY OPERATING REPORT

MONTH April YEAR 1988

APPROVED:

Jes  STATION MANAGER

8805240398 880430
PDR ADOCK 05000338
R DCN

JEZ4
1/1

OPERATING DATA REPORT

DOCKET NO. 50-338
 DATE 05-02-88
 COMPLETED BY Brenda Garner
 TELEPHONE 703) 894-5151 X2527

OPERATING STATUS

1. Unit Name: North Anna 1
2. Reporting Period: April 1988
3. Licensed Thermal Power (Mwt): 2893
4. Nameplate Rating (Gross MWe): 947
5. Design Electrical Rating (Net MWe): 907
6. Maximum Dependable Capacity (Gross MWe): 963
7. Maximum Dependable Capacity (Net MWe): 915
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	<u>719</u>	<u>2,903</u>	<u>86,411</u>
12. Number of Hours Reactor Was Critical	<u>719</u>	<u>2,177.8</u>	<u>60,377.7</u>
13. Reactor Reserve Shutdown Hours	<u>0</u>	<u>148.6</u>	<u>6,423.3</u>
14. Hours Generator On-Line	<u>719</u>	<u>2,017.5</u>	<u>57,769.7</u>
15. Unit Reserve Shutdown Hours	<u>0</u>	<u>0</u>	<u>0</u>
16. Gross Thermal Energy Generated (MWH)	<u>2,078,640</u>	<u>5,580,001</u>	<u>151,752,656</u>
17. Gross Electrical Energy Generated (MWH)	<u>693,097</u>	<u>1,849,690</u>	<u>49,753,582</u>
18. Net Electrical Energy Generated (MWH)	<u>658,236</u>	<u>1,754,434</u>	<u>47,049,028</u>
19. Unit Service Factor	<u>100</u>	<u>69.5</u>	<u>66.9</u>
20. Unit Availability Factor	<u>100</u>	<u>69.5</u>	<u>66.9</u>
21. Unit Capacity Factor (Using MDC Net)	<u>100.1</u>	<u>66.0</u>	<u>61.2</u>
22. Unit Capacity Factor (Using DER Net)	<u>100.9</u>	<u>66.6</u>	<u>60.0</u>
23. Unit Forced Outage Rate	<u>0</u>	<u>27.7</u>	<u>15.7</u>
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 05-02-88

COMPLETED BY Brenda Garner

TELEPHONE 703-894-5151X2527

MONTH April 1988

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>919</u>	17	<u>915</u>
2	<u>919</u>	18	<u>915</u>
3	<u>919</u>	19	<u>916</u>
4	<u>919</u>	20	<u>917</u>
5	<u>918</u>	21	<u>916</u>
6	<u>918</u>	22	<u>916</u>
7	<u>917</u>	23	<u>902</u>
8	<u>916</u>	24	<u>916</u>
9	<u>915</u>	25	<u>916</u>
10	<u>916</u>	26	<u>916</u>
11	<u>914</u>	27	<u>916</u>
12	<u>915</u>	28	<u>916</u>
13	<u>916</u>	29	<u>916</u>
14	<u>915</u>	30	<u>909</u>
15	<u>915</u>	31	<u></u>
16	<u>915</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 1988 DATE 05-02-88

COMPLETED BY Brenda Garner

No Entry This Month

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-338
 UNIT NAME North Anna I
 DATE 05-02-88
 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
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No Entry This Month

<p>¹ F: Forced S: Scheduled</p>	<p>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)</p>
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 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

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, 1988	0000	Began the month with the Unit at 965 MW - 100% power.
April 22, 1988	2334	Commenced rampdown of 100 MW to perform Turbine Valve Freedom Test.
April 23, 1988	0040	Unit holding at 865 MW - 89% power, to perform Turbine Valve Freedom Test.
	0240	Commenced ramp up of 100% power, Turbine Valve Freedom Test completed.
	0358	Unit stabilized at 966 MW - 100% power.
April 30, 1988	0842	Commenced rampdown of 5% power for swapping 1-FW-P-1B to 1-FW-P-1A.
	0915	Unit holding at 920 MW - 95% power, to secure feed water pump.
	1142	Commenced ramp up to 100% power, feed water pump was secured.
	1240	Unit stabilized at 965 MW - 100% power.
	2400	Ended the month with the Unit at 965 MW - 100% power.

OPERATING DATA REPORT

DOCKET NO. 50-339
 DATE 05-02-88
 COMPLETED BY Brenda Garner
 TELEPHONE 703) 894-5151 X2527

OPERATING STATUS

1. Unit Name: North Anna 2
2. Reporting Period: April 1988
3. Licensed Thermal Power (MWt): 2893
4. Nameplate Rating (Gross MWe): 947
5. Design Electrical Rating (Net MWe): 907
6. Maximum Dependable Capacity (Gross MWe): 963
7. Maximum Dependable Capacity (Net MWe): 915
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	719	2,903	64,679
12. Number of Hours Reactor Was Critical	719	2,853.9	51,322.2
13. Reactor Reserve Shutdown Hours	0	49.1	5,702.1
14. Hours Generator On-Line	719	2,827.2	50,483.2
15. Unit Reserve Shutdown Hours	0	0	0
16. Gross Thermal Energy Generated (MWH)	2,079,069	8,141,634	132,460,415
17. Gross Electrical Energy Generated (MWH)	692,441	2,711,402	43,916,523
18. Net Electrical Energy Generated (MWH)	657,804	2,578,461	41,636,808
19. Unit Service Factor	100	97.4	78.0
20. Unit Availability Factor	100	97.4	78.0
21. Unit Capacity Factor (Using MDC Net)	100	97.1	72.0
22. Unit Capacity Factor (Using DER Net)	100.9	97.9	70.9
23. Unit Forced Outage Rate	0	0	8.8
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 05-02-88
 COMPLETED BY Brenda Garner
 TELEPHONE 703-894-5151X2527

MONTH April 1988

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>917</u>	17	<u>911</u>
2	<u>914</u>	18	<u>915</u>
3	<u>916</u>	19	<u>915</u>
4	<u>917</u>	20	<u>916</u>
5	<u>917</u>	21	<u>916</u>
6	<u>916</u>	22	<u>916</u>
7	<u>915</u>	23	<u>915</u>
8	<u>915</u>	24	<u>915</u>
9	<u>916</u>	25	<u>914</u>
10	<u>917</u>	26	<u>914</u>
11	<u>915</u>	27	<u>914</u>
12	<u>915</u>	28	<u>915</u>
13	<u>909</u>	29	<u>918</u>
14	<u>916</u>	30	<u>919</u>
15	<u>915</u>	31	<u>919</u>
16	<u>904</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 1988 DATE 05-02-88

COMPLETED BY Brenda Garner

No Entry This Month

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-339
 UNIT NAME North Anna 2
 DATE 05-02-88
 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
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No Entry This Month

1	2	3	4
F: Forced	Reason:	Method:	Exhibit F - Instructions
S: Scheduled	A-Equipment Failure (Explain)	1-Manual	for Preparation of Data
	B-Maintenance or Test	2-Manual Scram.	Entry Sheets for Licensee
	C-Refueling	3-Automatic Scram	Event Report (LER) File
	D-Regulatory Restriction	4-Continuations	(NUREG-0161)
	E-Operator Training & License Examination	5-Load Reduction	
	F-Administrative	9-Other	
	G-Operational Error (Explain)		5
	H-Other (Explain)		Exhibit H - Same Source

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, 1988	0000	Began the month with the Unit at 963 MW - 100% power.
April 16, 1988	2057	Commenced rampdown of 100 MW to perform Turbine Valve Freedom Test.
	2130	Unit holding at 865 MW - 89% power for Turbine Valve Freedom Test.
	2352	Commenced ramp up to 100% power, Turbine Valve Freedom Test completed.
April 17, 1988	0050	Unit stabilized at 964 MW - 100% power.
April 30, 1988	2400	Ended the month with Unit at 966 MW - 100% power.

VIRGINIA ELECTRIC AND POWER COMPANY
RICHMOND, VIRGINIA 23261

May 16, 1988

D. S. CRUDEN
VICE PRESIDENT-NUCLEAR

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

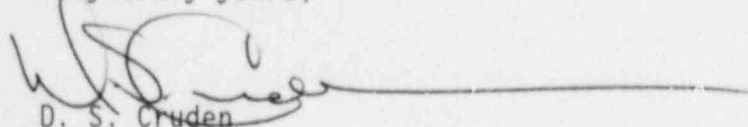
Serial No. 88-273
NO/D,IV:jmj
Docket Nos. 50-338
50-339
License Nos. NPF-4
NPF-7

Gentlemen:

VIRGINIA ELECTRIC AND POWER COMPANY
NORTH ANNA POWER STATION UNITS 1 AND 2
MONTHLY OPERATING REPORT

Enclosed is the Monthly Operating Report for North Anna Power Station Units 1 and 2 for the month of April 1988.

Very truly yours,



D. S. Cruden

Enclosures

cc: U.S. Nuclear Regulatory Commission
101 Marietta Street, NW
Suite 2900
Atlanta, GA 30323

Mr. J. L. Caldwell
NRC Senior Resident Inspector
North Anna Power Station

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