VIRGINIA ELECTRIC AND POWER COMPANY

NORTH ANNA POWER STATION

MONTHLY PERATING REPORT

MONTH April YEAR 1984

APPROVED:

STATION MANAGER

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OPERATING DATA REPORT

DOCKET NO. 50-338

DATE 05-03-84

COMPLETED BY Joan N. Lee

TELEPHONE (703) 894-5151 X2527

OPERATING STATUS

1.	Unit Name: North Anna 1						
2.	Reporting Period: April, 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.							
8.	If Changes Occur in Capacity Ratings (Items No. 3 thru 7) Since Last Report, Give Reason						
	MDC changes in gross and net to reflect	an increase in	avg				
	Power Level To Which Restricted, If Any	(Net MWe):	N/A				
10.	Reasons For Restrictions, If Any:		N/A				
		This Month	Yrto-Date	Cumulative			
11.	Hours In Reporting Period	719	2,903	51,344			
12.	Number of Hours Reactor Was Critical	719	2,171.6	35,758.1			
13.	Reactor Reserve Shutdown Hours	0	7.1	3,028.6			
14.	Hours Generator On-Line	719	2,150.8	34,812.4			
15.	Unit Reserve Shutdown Hours	0	0	0			
16.	Gross Thermal Energy Generated (MWH)	1991626	5,883,322	90,935,095			
17.	Gross Electrical Energy Generated (MWH)	677,095	1,994,721	29,378,908			
18.	Net Electrical Energy Generated (MWH)	643,871	1,895,337	27,726,511			
19.	Unit Service Factor	100.0	74.0	67.8			
20.	Unit Availability Factor	100.0	74.0	67.8			
21.	Unit Capacity Factor (Using MDC Net)	100.6	73.9	61.5			
22.	Unit Capacity Factor (Using DER Net)	98.7	72.0	59.5			
23.	Unit Forced Outage Rate	0	52.2	12.4			
24.	Shutdowns Scheduled Over Next 6 Months	(Type, Date, a	nd Duration of Ea	ch):			
Uni	t 1 Refueling Outage 05-11-84						
Uni	t 1 SCheduled Fall Maintenance 11-23-84						
25	To Chut Down At Ford Of Bonnet Bouried F	attacked Date	of Chantum.				
25 -	If Shut Down At End Of Report Period, E		of Startup:				
26.	Units In Test Status (Prior to Commerci		orecast	Achieved			
			DIECASC	Acuteved			
	INITIAL CRITICALITY						
	INITIAL ELECTRICITY						
	COMMERCIAL OPERATION		-				
	COURTERCIAL OFERATION	-		And the second s			

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AVERAGE DAILY UNIT POWER LEVEL

MONTH	April		
DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	877	17	903
2	885	18	901
3	887	19	900
4	891	20	900
5	891	21	900
6	891	22	898
7	885	23	900
8	877	24	900
9	892	25	899
10	899	26	900
11	899	27	900
12	900	28	901
13	899	29	901
14	898	30	902
15	882	31	
16	902		

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 SHU	TDOWN AND I	POWER REDUCTI	ONS
EXPLANATION SH	EET DOO	CKET NO. 5	0-338
REPORT MONTH	April	UNIT NAME	NA-1
YEAR	1984	DATE 05	-03-84
ILAN	2701		

NO ENTRIES THIS MONTH.

UNIT SHUTDOWNS AND POWER REDUCTIONS

UNIT NAME North Anna 1 05-03-84 DATE Joan Lee COMPLETED BY REPORT MONTH April (703) 894-5151 X2527 TELEPHONE Type Duration Reason Method of Cause & Corrective Licensee System Component Code 5 Code 4 Action to Shutting (Hours) Event Down Reactor Report # Prevent Recurrence Ended the month of March with NA 84-10 840331 B 5 NA NA unit 1 in Turbine Valve Freedom Test. Power level 94% at 881 MW. Unit return to full power on April 1, 1984 - 0420. Unit 1 ramped down for Turbine NA NA 84-11 840407 S B 5 NA Valve Freedom Test. Unit returned to full power. Unit 1 ramped down for Turbine 5 NA NA NA 84-12 840414 S Valve Freedom Test. Unit returned to full power. Ended this month with unit at 100% power.

50-338

DOCKET NO.

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

VIRGINIA ELECTRIC AND POWER COMPANY NORTH ANNA POWER STATION

UNIT	NO.	1
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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.

DATE	TIME	DATA
April 1, 1984	0000	Began this month with Unit at 93% power, 876 MW for Turbine Valve Freedom Test.
	0050	Unit stabilized at 860 MW.
	0125	Turbine Valve Freedom Test complete. Commenced ramping up to 100% power.
	0325	Unit stabilized at 98% power for calorimetric.
	0420	Calorimetric complete and unit at 100% power.
April 7, 1984	2100	Commenced rampdown for Turbine Valve Freedom Test
	2330	Unit at approximately 860 MW 91% power level.
April 8, 1984	0100	Turbine Valve Freedom Test complete. Commenced ramping up to 100%.
	0400	Unit at 100% power.
April 14, 1984	2250	Commenced rampdown for Turbine Valve Freedom Test.
April 15, 1984	0150	Unit stabilized at 858 MW.
	0219	Turbine Valve Freedom Test complete. Commenced rampup to 100% power.
	0345	Stabilized power at 98% power for calorimetric.
	0416	Calorimetric complete. Commenced ramping up to 100%.
	0550	Unit at 100% power.
April 30, 1984	2400	Ended this month with unit at 100% power.

OPERATING DATA REPORT

DOCKET NO. 50-339 DATE COMPLETED BY 05-03-84 TELEPHONE (703) 894-5151 X2527

	OPERATING STATUS			
	Unit Name: North Anna 2		Notes:	
2.	Unit Name: North Anna 2 Reporting Period: April 1984			
3.	Licensed Thermal Power (MWt):	2775		
2		THE RESERVE OF THE PARTY OF THE		
4.	Nameplate Rating (Gross MWe):	947		
5.	Design Electrical Rating (Net MWe):	907		
6.	Maximum Dependable Capacity (Gross MWe)	the same of the sa		
7.	Maximum Dependable Capacity (Net MWe):	890	7) Cinc. T D.	Of the December
8.	If Changes Occur in Capacity Ratings (I	tems No. 3 thru	/) Since Last Ke	port, Give Keaso
	N/s	A		
•		(n		
	Power Level To Which Restricted, If Any	(Net Mwe):	N/A	
10.	Reasons For Restrictions, If Any:		N/A	
-				
		This Month	Yrto-Date	Cumulative
11.	Hours In Reporting Period	719	2,903	29,615
12.		520.7	2,802	22,448.9
13.		5.8	15.1	3,789.3
14.		515.1	2,557	22,064.1
15.		0	0	0
16.		1,240,206	6,567,288	56,983,329
17.			2,152,914	18,844,662
18.		387,099	2,040,855	17,892,937
19.		71.6	88.0	74.5
20.		71.6	88.0	74.5
21.		60.4	79.0	67.9
22.		59.3	77.5	66.6
23.		0	5.6	14.5
24.				
	Unit 2 Refueling Outage			
	oute 2 Retuering outage			
25 •	If Shut Down At End Of Report Period,	Estimated Date	of Startup:	
26.	그 그들은 사람이 없었다면 이 살이 이 살이 된다. 이 사람이 없는 이 경기를 다 하지 않는데 이 경기를 받는데 하지 않는데 이 것이다.	ial Operation):		Achieved
		*	OLCCHOC.	1100100
	INITIAL CRITICALITY			
	INITIAL ELECTRICITY COMMERCIAL OPERATION	-		

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-339

UNIT NA-2

DATE 05-03-84

COMPLETED BY Joan N. Lee

TELEPHONE 703-894-5151X2527

MONTH	APRIL			
DAY	AVERAGE DAILY POWER (MWe-Net)	LEVEL	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	0		17	875
2	0		18	878
3	0		19	876
4	0		20	877
5	0		21	879
6	0		22	879
7	0		23	877
8	0		24	877
9	102		25	879
10	214		26	876
11	215		27	876
12	213		28	815
13	761		29	773
14	871		30	796
15	875		31	
16	876			

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.

Page	1	of	1
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UNIT SHUTDOWN AND POWER REDUCTIONS

EMPLANATION SH	EET D	OCKET NO.	5	0-339	_
REPORT MONTH	April	UNIT	NAME .	NA-2	
YEAR	1984		DATE05-03-		-84
co	MPLETED B	Y Jo	an Le	е	

84-19 S (2) Commenced rampdown of unit 2 scheduled spring maintenance outage on March 30, 1984 at 2137. On March 31, 1984, Unit 2 was off-line. Maintenance completed on Unit 2, and unit was on line April 9, 1984 at 1148. By April 13, 1984 at 0651 unit was 100% power. Ended the month of April with unit at 100% power.

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-339 INIT NAME North Anna 2 DATE 05-03-84 COMPLETED BY Joan Lee REPORT MONTH April (703) 894-5151 X2527 TELEPHONE. Duration Reason² Method of Cause & Corrective Licensee System Component Code / Code 5 (Hours) Shutting Event Action to Prevent Recurrence Down Reactor Report # Ramped down to begin Scheduled 84-19 840330 21.1-March B NA NA NA Spring Maintenance Outage. 203.9-April Ended the month of March with Unit in Mode 5. Maintenance was completed and Unit on line April 9, 1984, 1148. Returned to 100% power on April 13, 1984 at 0651. 5 84-20 840414 NA Ramped down for Turbine Valve S NA NA Freedom test. Unit returned to full power. 84-21 840427 5 NA NA NA Ramped down for load following. Unit returned to full power. 84-22 840428 5 NA NA NA Ramped down for load following. Unit returned to full power. 84-23 840429 5 NA NA NA Ramped down for load following. Unit returned to full power. Ended this month with Unit at 100% power. 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 Event Report (LER) File C-Refueling 3-Automatic Scram (NUREG-0161) D-Regulatory Restriction 4-Continuations E-Operator Training & License Examination 5-Load Reduction F-Administrative 9-Other G-Operational Error (Explain) H-Other (Explain) 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.

DATE	TIME	DATA
April 1, 1984	0000	Began this month with Unit 2 in Mode 5 for Scheduled Spring Maintenance Outage.
April 9, 1984	0545	Commenced Reactor start-up.
	0617	Unit 2 Reactor critical.
	1148	Unit 2 on line.
April 10, 1984	0037	Holding power at 29% power level. 246 MW for chemistry Hold.
April 13, 1984	0125	Unit 2 released from chemistry hold, commenced ramping up to 100% power.
	0620	Unit stabilized at 90% power for calorimetric.
	0621	Re-commenced ramping up to 100% power.
	0651	Unit 2 at 100% power
April 14, 1984	0030	Commenced rampdown for Turbine Valve Freedom Test.
	0153	Turbine Valve Freedom Test complete - Commenced ramping up to 100% power.
	0218	Stabilized power at 98% for calorimetric.
	0228	Calorimetric complete and Unit at to 100%.
April 27, 1984	2345	Commenced rampdown for load following per System Operator.

April 28, 1984	0122	Stabilized power at 680 MW/71% power.
	0506	Commenced ramping up to 100% power per System operator.
	0609	Stabilized power 98% for calorimetric.
	0612	Calorimetric complete and increasing power to 100%.
	0700	Unit at 100% power.
	2236	Commercial rampdown for load following per System operator.
	2345	Stabilized power - Unit at 77% power - 730 MW.
April 29, 1984	0100	Decreasing load following another 100 MW per System operator.
	0130	Stabilizing at 635 MW. System operator wants to decrease another 100 MW. Continuing ramp-down.
	0200	Shifted from Eastern Standard time to Daylight Savings time.
	0300	Power at 57%, 535 MW.
	0622	Commenced increasing power to 100% per System operator.
	0813	Stabilizing power at 90% for calorimetric.
	0820	Calorimetric complete. Commenced ramping up to 100%.
	1005	Unit at 100% power.
April 29, 1984	2345	Commenced rampdown for load following per System operator.
April 30, 1984	0055	Stabilizing power at 77%, 740 MW.
	0105	System operator request another 100 MW load reduction. Commenced rampdown.
	0136	Stabilizing at 67% power - 640 MW.
	0228	System operator requests another 100 MW - Commenced rampdown.
	0256	Stabilizing power at 58%, 540 MW.

April 30, 1984	0414	Commenced ramping up to 100%.
	0653	Stabilizing power at 90% for calorimetric.
	0735	Calorimetric complete. Commenced ramping up to 100%.
	0810	Unit 2 at 100% power.
	2400	Ended this month with Unit at 100% power.

VIRGINIA ELECTRIC AND POWER COMPANY RICHMOND, VIRGINIA 23261

W. L. STEWART VICE PRESIDENT NUCLEAR OPERATIONS

May 15, 1984

Mr. N. M. Haller, Director Office of Management and Program Analysis U. S. Nuclear Regulatory Commission Washington, D. C. 20555 NO/JHL:acm
Docket Nos. 50-338
50-339
License Nos. NPF-4
NPF-7

Dear Mr. Haller:

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



WLS 5/15/84

bc: Mr. W. R. Carewright MMC 5/15/84
Mr. W. N. Thomas

Mr. A. L. Hogg - NA

Mr. L. W. Ellis Mr. J. L. Wilson Mr. E. W. Harrell (2) GEK 5/10/84 NOD Tech Library (bc original)

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