VIRGINIA ELECTRIC AND POWER COMPANY

NORTH ANNA POWER STATION

MONTHLY OPERATING REPORT

MONTH May YEAR 1984

APPROVED:

STATION MANAGE

8407020133 840531 PDR ADOCK 05000338

ZE24

OPERATING DATA REPORT

DOCKET NO. 50-338

DATE 06-03-84

COMPLETED BY Joan N. Lee

TELEPHONE (703) 894-5151 X2527

OPERATING STATUS

1.	Unit Name: North Anna 1			
2.	Reporting Period: May, 1984			
3.	Licensed Thermal Power (MWt):			
4.	Nameplate Rating (Gross MWe):			
5.	Design Electrical Rating (Net MWe):	907		
6.	Maximum Dependable Capacity (Gross MWe):	937		
7.	Maximum Dependable Capacity (Net MWe):	890		
8.	It Changes Occur in Capacity Ratings (Ite	ems No. 3 thru	7) Since Last Rep	port, Give Reaso
	iDC changes in gross and net to reflect !	Station Service	loads	
	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	744	3,674	52,088
12.	Number of Hours Reactor Was Critical	270.7	2,442.3	36,028.8
13.	Reactor Reserve Shutdown Hours	0	7.1	3,028.6
14.	Hours Generator On-Line	269.2	2,420	35,081.6
15.	Unit Reserve Shutdown Hours	0	0	0
16.		713414	6,596,736	91,648,509
17.	Gross Electrical Energy Generated (MWH)	243,546	2,238,267	29,622,454
13.	Net Electrical Energy Generated (MWH)	231,268	2,126,605	27,957,779
19.	Unit Service Factor	36.1	66.3	67.3
20.	Unit Availability Factor	36.1	66.3	67.3
21.	Unit Capacity Factor (Using MDC Net)	35.0	65.6	60.3
22.	Unit Capacity Factor (Using DER Net)	34.2	64.2	59.1
23.		0	23.7	12.0
24.	Shutdowns Scheduled Over Next 6 Months	(Type, Date, a	nd Duration of Ea	ch):
Ur	nit 1 Scheduled Fall Maintenance 11-23-84			
25	If Shut Down At End Of Report Period, E	stimated Date	of Startup: J	uly 18, 1984
26		al Operation):		
		F	orecast	Achieved
	INITIAL CRITICALITY INITIAL ELECTRICITY			
	COMMERCIAL OPERATION			

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-338

UNIT NA-1

DATE 06-03-84

COMPLETED BY Joan N. Lee

TELEPHONE 703-894-5151X2527

MONTH	May, 1984		
DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	667	17	0
2	831	18	0
3	901	19	0
4	901	20	0
5	887	21	0
6	891	22	0
7	898	23	0
8	897	24	0
9	899	25	0
10	898	26	0
11	881	27	0
12	83	28	0
13	0	29	0
14	0	30	0
15	0	31	0
16	0		

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.

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UNIT SHUTDOWN AND POWER REDUCTIONS

REPORT MONTH May UNIT NAME NA-1

YEAR 1984 DATE 06-03-84

COMPLETED BY Joan Lee

84-14 S (1) On May 11, 1984 at 2113 Unit 1 commenced ramping down for Scheduled Refueling Outage. On May 12, 1984 at 0611 Unit 1 was offline. Expected date for unit to return on line is July 18, 1984. Ended this month with unit in Mode 5.

UNIT SHUTDOWNS AND POWER REDUCTIONS

North Anna 1 UNIT NAME 06-03-84 DATE COMPLETED BY Joan Lee May, 1984 REPORT MONTH (703) 894-5151 X2527 TELEPHONE Type Duration Reason 2 Cause & Corrective Method of Licensee System Component Code 4 Action to Shutting Event
Down Reactor Report # Code 5 (Hours) Prevent Recurrence Unit 1 ramped down because 'A' NA NA 84-13 840501 B NA NA NA Shutdown Bank rods misaligned -Repaired. Unit returned to 100% power. Unit 1 ramped down for NA NA C NA 84-14 840511 S 474.8 1 Scheduled Spring Refueling. Ended this month with Unit in Mode 5. Expected date to return on-line is July 18, 1984.

DOCKET NO.

50-338

1	2	3	4
F: Forced S: Scheduled	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)	Method: 1-Manual 2-Manual Scram. 3-Automatic Scram 4-Continuations 5-Load Reduction 9-Other	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.	1
		-

MONTH May

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
May 1, 1984	0000	Began this month with Unit at 100% power.
	0955	Commenced rampdown at 300 MW per hour. Shutdown Bank 'A' rods misaligned.
	1120	Stabilized at 46% power. Realigned rods.
	1701	Commenced power increase to 100% at 3% per hour
May 2, 1984	0045	Stabilizing power at 73% 700 MW for leak rate.
	0224	Re-commenced rampup to 100% at 3% per hour.
	0800	Stabilized power at 90% 850 MW for calorimetric.
	0830	Calorimetric complete. Re-commenced power increase.
	1145	Unit at 100% power.
May 11, 1984	2113	Commenced rampdown of Unit to begin Scheduled Refueling Outage.
May 12, 1984	0611	Generator off line.
	0704	Unit 1 Reactor shutdown.
May 31, 1984	2400	Ended this month with Unit 1 in Mode 5 for Scheduled Refueling Outage. Expected date for Unit 1 to return on line is July 19, 1984.

OPERATING DATA REPORT

DOCKET NO. 50-339

DATE 06-03-84

COMPLETED BY Joan N. Lee (703) 894-5151 X2527

	OPERATING STATUS		V	
	Unit Name: North Anna 2		Notes:	
1.	Reporting Period: May, 1984			
2.	Licensed Thermal Power (MWt):	2775		
3.	Nameplate Rating (Gross MWe):	947		
4.		907		
5.	Design Electrical Rating (Net MWe):			
6.	Maximum Dependable Capacity (Gross MWe):	AND DESCRIPTION OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUM		
7.	Maximum Dependable Capacity (Net MWe): If Changes Occur in Capacity Ratings (It	890	7) Since Last Re	nort Give Reason
0.			7) bince base ne	pore, orve heads.
	N/A			
		(N. 1. 1971.)		
	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	744	3,647	30,359
12.	Number of Hours Reactor Was Critical	702.6	3,522.6	23,151.5
13.	Reactor Reserve Shutdown Hours	5.3	20.4	3,794.6
14.	Hours Generator On-Line	673.3	3,230.3	22,737.4
15.	Unit Reserve Shutdown Hours	0	0	0
16.	Gross Thermal Energy Generated (MWH)	1,829,098	8,396,386	58,812,427
17.	Gross Electrical Energy Generated (MWH)	609,091	2,762,005	19,453,753
18.		577,798	2,618,653	18,470,735
19.		90.4	88.6	75.0
20.		90.4	88.6	75.0
21.		87.2	80.7	68.3
22.		85.6	79.2	67.0
23.		0	3.6	14.0
24.		(Type, Date, a	The same of the sa	
	Unit 2 Refueling Outage	Scheduled 08-17	-84	
25.	If Shut Down At End Of Report Period,	Estimated Date	of Startup:	
26.		ial Operation):		Achieved
	INITIAL CRITICALITY			
	INITIAL ELECTRICITY		-	
	COMMERCIAL OPERATION			

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-339

UNIT NA-2

DATE 06-03-84

COMPLETED BY Joan N. Lee

TELEPHONE 703-894-5151X2527

MONTH	May		
DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	854	17	880
2	828	18	874
3	862	19	879
4	837	20	867
5	10	21	875
6	0	22	878
7	0	23	878
8	711	24	879
9	799	25	879
10	764	26	879
11	871	27	879
12	875	28	880
13	866	29	878
14	874	30	880
15	877	31	880
16	881		

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

EXPLANATION S	HEET 1	DOCKET NO.	50	0-339	
REPORT MONTH	May	UNIT	NAME	NA-2	
YEAR	1984	DATE	06	-03-84	
	OMPLETED !	BY Jo	oan Le	e	

84-26 S (1) On May 5, 1984 at 0121 - Unit 2 was taken off line for testing and performing maintenance on the Reactor trip breakers. The maintenance was preventative and involved detailed inspections and lubrication. Testing and maintenance was completed and Unit 2 was back on line at 0055 on May 8, 1984. Ended this month with Unit 2 at 100% power.

UNIT SHUTDOWNS AND POWER REDUCTIONS

					SHUTDOWNS AND	POWER F	REDUCTIONS		DOCKET NO. 50-339 UNIT NAME North Anna 2 DATE 06-03-84 COMPLETED BY Joan Lee TELEPHONE (703) 894-5151 X2527
No.	Date	Type ¹	Duration (Hours)	Reason ²	Method of Shutting Down Reactor ³	Event	Code 4	Component Code 5	nt Cause & Corrective
84-24	840501	S		Ĥ	5	NA	NA	NA	Unit 2 ramped down for load following per System operator. Unit returned to 100% power.
84-25	840562	S		Н	5	NA	NA	NA	Unit 2 ramped down for load following per System operator. Unit returned to full power.
84-26	840505	S	70.7	B	1	84-00	03 NA	NA	Unit 2 ramped down for testing of the Reactor trip Breakers. Testing completed and Unit returned to full power.
84-27	840509	S		Н	5	NA	NA	NA	Unit 2 ramped down for load following. Unit returned to 100% power.
84-28	840510	S		Н	5	NA	NA	NA	Unit 2 ramped down for load following. Unit returned to full power.
	orced cheduled	A-E B-M C-R D-R E-O F-A G-O	son: quipment laintenance lefueling legulatory perator T dministra perationa ther (Exp	Restrict: raining & tive 1 Error (1	ion License Examin	nation	Method: 1-Manual 2-Manual Scram. 3-Automatic Scram 4-Continuations 5-Load Reduction 9-Other	I	Exhibit F - Instructions for Preparation of Data Entry Sheets for Licensee Event Report (LER) File (NUREG-0161) Exhibit H - Same Source

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH

DOCKET NO. 50-339

UNIT NAME North Anna 2

DATE 06-03-84

COMPLETED BY Joan Lee

TELEPHONE (703) 894-5151 X2527

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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	
84-29	840511	S		н	5	NA	NA	NA	Unit 2 ramped down for load following. Unit returned to full power.	
84-30	840513	S		В	NA	NA	NA	NA	Unit 2 ramped down for Turbine Valve Freedom test. Unit 2 returned to 100% power.	

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.	2

MONTH May

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
May 1, 1984	0000	Began this month with Unit at 100% power.
11ay 1, 1904		
	0235	Commenced rampdown for load following per System Operator.
	0349	Stabilized at 750 MW - 79% power per System Operator.
	0505	Commenced rampup to 100% power.
	0714	Unit at 100% power.
May 2, 1984	0047	Commenced rampdown for load following per System Operator.
	0322	Stabilized power at 637 MW - 92% power.
	0443	Commenced rampup to 100% power.
	0620	Unit stabilized at 90% power for calorimetric.
	0640	Calorimetric complete. Re-commenced rampup to 100%.
	0713	Unit at 100% power.
	2345	Commenced rampdown for load following per System Operator of 100 MW.
May 3, 1984	0052	Stabilized unit at 860 MW 92% power.
	0430	Commenced rampup to 100% power.
	0500	Stabilized power at 96% for calorimetric.

May 3, 1984	0535	Calorimetric complete - re-commenced rampup to 100%.
	0545	Unit at 100% power.
May 4, 1984	2041	Commenced rampdown of Unit 2 at 150 MW per hour for testing of the Reactor trip Breakers.
May 5, 1984	0121	Unit 2 off line.
	0126	Unit 2 Reactor trip - Mode 3.
May 6, 1984	0617	Testing complete - Commenced Reactor startup.
May 8, 1984	0055	Unit 2 on line.
	0223	Holding power at 45% per System Operator.
	0441	Re-commenced rampup to 100% .
	0729	Unit 2 stabilized at 90% power for calorimetric.
	0808	Re-commenced rampup to 100% power.
	0905	Unit at 100% power.
May 9, 1984	0000	Commenced rampup of 200 MW for load following per System Operator.
	0005	Instructed by System Operator to rampdown another 100 MW.
	0142	Stabilized power at 625 MW - 66% power.
	0528	Commenced rampup to 100% power.
	0635	Stabilized power at 90% for calorimetric.
	0650	Calorimetric complete. Re-commenced rampup to 100% power.
	0900	Unit at 100% power.
	2259	Commenced rampdown for load following of 400 MW per System Operator. Notified SRO on call. Ramped down at 3% per hour.
	2304	System Operator called. Requested another 100 MW load reduction - a total of 500 MW rampdown.
May 10, 1984	0143	Stabilized power at 450 MW 49% power per System Operator.

May 10,	1984	0452	Commenced rampup to 100% per System Operator.
		0900	Unit at 100% power.
May 11,	1984	0300	Commenced rampdown for load following.
		0323	Stabilized at 880 MW - 94% power.
		0512	Commenced rampup to 100% power.
		0545	Stabilized power at 98% for calorimetric.
		0605	Calorimetric complete. Unit at 100% power.
May 13,	1984	0010	Commenced rampdown for Turbine Valve Freedom Test.
		0036	Stabilized power at 860 MW.
		0237	Commenced rampup to 100% power.
		0315	Stabilized power at 98% power for calorimetric.
		0345	Re-commenced rampup to 100% power.
		0355	Unit at 100% power.
May 31,	1984	2400	Ended this month with unit at 100% power.

VIRGINIA ELECTRIC AND POWER COMPANY RICHMOND, VIRGINIA 23261

W. L. STEWART VICE PRESIDENT NUCLEAR OPERATIONS

June 15, 1984

Mr. N. M. Haller, Director Office of Management and Program Analysis U. S. Nuclear Regulatory Commission Washington, D. C. 20555 Serial No. 348 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 May, 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

