VIRGINIA ELECTRIC AND POWER COMPANY RICHMOND, VIRGINIA 20261

July 15, 1991

U. S. Nuclear Regulatory Commission Attention: Document Control Desk Washington, D.C. 20555 Serial No. 91-382 NL&P/JMJ:jmj Docket Nos. 50-338 50-339 License Nos. NPF-4

NPF-7

Gentlemen:

VIRGINIA ELECTRIC AND POWER COMPANY NORTH ANT A POWER STATION UNITS 1 AND 2 MONTHLY PERATING REPORT

Enclosed is the Monthly Operating Report for North Anna Power Station Units 1 and 2 for the month of June 1991. Also enclosed are two corrections to the March and May 1991 Monthly Operating Reports for North Anna Unit 1.

Very truly yours,

W. L. Stewart Senior Vice President - Nuclear

Enclosures

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

> Mr. M. S. Lesser NRC Senior Resident Inspector North Anna Power Station

9107160317 910430 PDR ADOCK 05000338 PDR VIRGINIA POWER COMPANY NORTH ANNA POWER STATION MONTHLY OPERATING REPORT

MONTH: June YEAR: 1991

Approved:

Station Manager M

DOCKET NO.: 50-338 DOCKET NO.: 50-338

DATE: July 8, 1991

COMPLETED BY: C. Mladen

OPERATING STATUS

Maximum Dependable Capacity (Gross MWe): 959 Maximum Dependable Capacity (Net MWe): 911			
f changes occur in Capacity Ratings (Items No. 3 thru 7)	since last repo	rt, give reasons	
N/A			
ower level to which restricted, if any (Net MWe):N/A			
easons for restrictions, if any:N/A	-		
			-
	This Month	Y-t-D	Cumulative
Last de Assessation Account			
lours in Reporting Period	720.0	4,343.0	114,155.0
Number of Hours Reactor was Critical	720.0	2,802.6	H2,793.5
leactor Reserve Shutdown Hours	0.0	42.0	6,645.6
ours Generator On-Line	720.0	2,664.4	79,884.4
Init Reserve Shutdown Hours	0.0	0.0	0.0
ross Thermal Energy Generated (MWH)	2,081,856.1	6,901,921.8	211,888,157.8
ross Electrical Energy Generated (MWH)		2,269,963.0	69,611,301.0
et Electrical Energy Generated (MWH)		2,152,539.0	65,881,291.0
nit Service Factor		61.3%	70.01
nit Availability Factor	100.0%	61.3%	70.01
nit Capacity Factor (using MDC Net)	99.5%	54.4%	64.51
nit Capacity Factor (using DER Net)	99,9%	54.6%	63.63
orced Outage Rate	0.0%	11.0%	12.51
hutdowns Scheduled Over Next 6 Months (Type, Date, and Da	unation of Each)	None	
Shutdown at end of Report Period, estimated time of Sta	ertub: N/A		
The state of the s	17 N. 19 1		-
nits in Test Status (Prior to Commercial Operation):			
nits in Test Status (Prior to Commercial Operation):	Achieved		
nits in Test Status (Prior to Commercial Operation): Forecast	Achieved		
nits in Test Status (Prior to Commercial Operation): Forecast INITIAL CRITICALITY INITIAL ELECTRICITY	Achieved		

AVERAGE DAILY UNIT POWER LEVEL

Docket No.: 50-338
Unit: NA-1
Date: July 8, 1991
Completed by: C. Mladen
Phone: (703) 894-2774

MONTH: June 1991

DAY A	VERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY LEVEL LEVEL (MWe-Net)
1 2	894	1.7	905
2	906	18	906
3	905	19	906
4	9.06	20	907
5	907	21	906
6	908	22	906
7	911	23	906
8	909	24	907
9	910	25	907
10	907	26	908
11	907	27	907
12	908	28	898
13	906	29	907
14	906	30	906
15	906		
16	906		

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.

REPORT MONTH: June 1991

DOCKET NO.: 50-338 UNIT NAME: NA-1 DATE: July 8, 1991

COMPLETED BY: C. Mladen PHUNE: (703) 894-2774

UNIT SHUTDOWNS AND POWER REDUCTIONS

3 No. Date Type Duration Reason Method of Licensee System Component Cause & Corrective Event Code Code (hrs) Shutting Action to Down Reactor Report # Prevent Recurrence

*No entry this month

1: Type 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 H=Other (explain)

3: Method 1=Manual 2=Manual Scram 4=Continuations 5=Load Reduction

9=Other

4: Exhibit F - Instructions for preparation of Data 3=Automatic Scram Entry Sheets for Licensee Event Report (LER) File (NUREG-0161)

> 5: Exhibit H - Same Source

UNIT SHUTDOWN AND POWER REDUCTIONS Explanation heet

Docket No.: 50-338

Report Month June Unit Name: NA-1

Year: 1991 Date: July 8, 1991

Completed by: __Cathia Mladen

*No entry this month.

NORTH ANNA POWER STATION

UNIT NO.: 1 MONTH: June

Page 1 of 1

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
June 01, 1991	0000	Began ronth with unit at 100%, 936 MWe.
June 28, 1991	0905	Commenced unit ramp-down for TVFT.
	1000	Unit stable at 870MWe.
	1054	TVFT completed satisfactorily.
	1056	Commenced unit ramp-up.
	1242	Unit stable at 98.72% with all main turbine valves full open. Commencing 1-TOP-31.3 to bypass a portion of feedwater to first point feedwater heaters to allow unit to reach 100%.
	1507	Unit stable at 100% power, 954MWe.
June 30, 1991	2400	Ended month at 100%, 954MWe.

DOCKET NO.: 50-339
DATE: July B, 1991
COMPLETED BY: C. Mladen
PHONE: (703) 894-2774

OPERATING STATUS

1.	Unit Name:North Anna 2			
2.	Reporting Period:June 1991			
3.	Licensed Thermal Power (MWt):			
4.	Nameplate Rating (Gross MWe): 947			
5.	Design Electrical Rating (Net MWe): 907			
6.	Maximum Dependable Capacity (Cross MWe): 957			
7.	Maximum Dependable Capacity (Net MWe): 909			
В.	If changes occur in Capacity Ratings (Items No. 3 thru 7)			-
	N/AN/A	Accessory and the state of the		
	Name that we ship appropriated if you that MUSA. N/A			
	Power level to which restricted, if any (Net MWe):N/A_ . Reasons for restrictions, if any:N/A_			
10	. Reasons for restrictions, if any:			
	With the state of			
		This Month	Y-t-D	Cumulative
		Title Rightson		
44	. Hours in Reporting Period	720.0	4,343.0	92,423.0
	. Number of Hours Reactor was Critical	720.0	4,343.0	75,477.3
		0.0	0.0	5,949.6
	. Reactor Reserve Shutdown Hours	720.0	4,343.0	74,577.3
	. Hours Generator On-Line	0.0	0.0	0.0
	. Unit Reserve Shutdown Hours		12,557,168.3	199,806,281.7
	Gross Thermal Energy Generated (MWH)	683,868.0	4,154,689.0	65,457,275.0
	7. Gross Electrical Energy Generated (MWH)		3,955,322.0	62,770,802.0
	8. Net Electrical Energy Generated (MWH)		100.0%	80.7%
	9. Unit Service factor		100.0%	80.7%
	O. Unit Availability Factor			75.5%
	1. Unit Capacity Factor (using MDC Net)		100.2%	
	2. Unit Capacity Factor (using DER Net)		100.4%	74.9%
. 2	3. Forced Dutage Rate	0.0%	0.0%	6.0%
5	4. Shutdowns Scheduled Over Next 6 Months (Type, Date, and D	uration of Each): None	
	25. If Shutdown at end of Report Period, estimated time of S	tartup:N/	Α	
- 1	26. Units in Test Status (Prior to Commercial Operation):			
		Achieved		
	INITIAL CRITICALITY			
	INITIAL ELECTRICITY			
	COMMERCIAL OPERATION			

AVERAGE DAILY UNIT POWER LEVEL

Docket No.: 50-339
Unit: NA-2
Date: July 8, 1991
Completed by: C. Mladen
Phone: (703) 894-2774

MONTH: June 1991

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY LEVEL LEVEL (MWe-Net)
1	903	17	901
2	903	18	901
3	903	19	902
4	903	20	902
5	905	21	902
6	906	22	901
7	896	23	902
8	907	24	902
9	905	25	903
10	904	26	902
11	904	27	903
12	903	28	902
13	902	29	902
14	902	30	900
15	902		
16	901		

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.

REPORT MONTH: June 1991

Down Reactor Report #

DOCKET NO.:

50-339

UNIT NAME:

NA-2

DATE: July 8, 1991

COMPLETED BY: C. Mladen

PHONE: (703) 894-2774

No. Date Type Duration Reason Method of (hrs)

Shutting

Event

Licensee System Component Code Code

Cause & Corrective Action to

Prevent Recurrence

*No entry this month

1: Type 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

H=Other (explain)

3: Method

1=Manual

2=Manual Scram

4=Continuations

5=Load Reduction

9=Other

Exhibit F - Instructions

for preparation of Data 3=Automatic Scram Entry Sheets for Licensee

Event Report (LER) File

(NUREG-0161)

5:

Exhibit H - Same Source

UNIT SHUTDOWN AND POWER REDUCTIONS Explanation Sheet

Docket No.: 50-339

Report Month June Unit Name: NA-2

Year: 1991 Date: July 8, 1991

Completed by: __Cathie Mladen

*No entry this month

NORTH ANNA POWER STATION

UNIT NO.: 2 MONTH: May

Page 1 of 1

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
June 01, 1991	0000	Began month with unit at 100%, 951 MWe.
June 07, 1991	0905	Commenced unit ramp-down for TVFT.
	1005	Unit stable at 882MWe.
	1058	TVFT completed satisfactorily.
	1152	Commenced unit ramp-up to 100%.
	1515	Unit stable at 100%.
June 30, 1991	2400	Ended month with unit at 100%, 943MWe.

Corrected Pages for March and May 1991 North Anna Unit 1 Monthly Operating Reports

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO.:

50-338

UNIT NAME:

NA-1

DATE: April 1, 1991

COMPLETED BY: C. Mladen

PHONE: (703) 894-2537

REPORT MONTH: March 1991

2 No. Type Duration Reason Date Method of Licensee System Component Cause & Corrective (hrs) Shutting Event Code Code Action to Down Reactor Report # Prevent Recurrence 91-01 910112 -216 197 C N/A N/A N/A S/G Maintenance planned

1: Type 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 H=Other (explain)

3: Method

1=Manual

2=Manual Scram

Exhibit F - Instructions for preparation of Data

3=Automatic Scram Entry Sheets for License =Continuations Event Report (LER) File

5=Land Reduction (NUREG-0161) 9=Other

Exhibit H - Same Source

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO.:

50-338 NA-1

UNIT NAME:

DATE: June 3, 1991

COMPLETED BY: C. Mladen

PHONE: (703) 894-2774

REPORT MONTH: May 1991

No.	Date	Type 1	Duration (hrs)	Reason 2	3 Method of Shutting Down Reactor	Licensee Event Report #	System Code		Cause & Corrective Action to Prevent Recurrence
91-02	910505	F	0 47.1	B B	9	N/A	ТВ	RLY	Corrective maintenance on Main Generator - maintained reactor power @12% during repairs
91-03	910509	F	0	B	9	N/A	AB	ISV	Increasing Unidentified RCS Leakage -reduced reactor power to @30% to investigate
91-04	910511	F	330+5 282	.7 8	1	N1-91-011	AB	ISV	Reactor shutdown due to RCS Pressure Boundary Leakage

1: Type 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

3: Method 1=Manual 2=Manual Scram 4=Continuations 5=Load Reduction 9=Other

Exhibit F - Instructions for preparation of Data 3=Automatic Scram Entry Sheets for Licensee Event Report (LER) File (NUREG-0161)

> 5: Exhibit H - Same Source