

VIRGINIA ELECTRIC AND POWER COMPANY
RICHMOND, VIRGINIA 23261

January 11, 1993

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

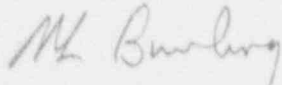
Serial No. 93-011
NL&P/JMJ:jmj
Docket Nos. 50-338
50-339
License Nos. NPF-4
NPF-7

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 December 1992.

Very truly yours,



M. L. Bowling, Manager
Nuclear Licensing and Programs

Enclosure

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

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VIRGINIA POWER COMPANY
NORTH ANNA POWER STATION
MONTHLY OPERATING REPORT

MONTH: December YEAR: 1992

Approved:


Station Manager

OPERATING DATA REPORT

DOCKET NO.: 50-338
 DATE: January 4, 1993
 CONTACT: G. E. Kane
 PHONE: (703) 894-2101

OPERATING STATUS

1. Unit Name:.....Korth Anna 1
2. Reporting Period:.....December 1992
3. Licensed Thermal Power (Mwt):..... 2,748
4. Nameplate Rating (Gross MWe):..... 947
5. Design Electrical Rating (Net MWe):..... 907
6. Maximum Dependable Capacity (Gross MWe):.. 894
7. Maximum Dependable Capacity (Net MWe):.... 848

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	Y-t-D	Cumulative
11. Hours in Reporting Period.....	744.0	8,784.0	127,356.0
12. Number of Hours Reactor was Critical.....	744.0	7,242.3	93,930.8
13. Reactor Reserve Shutdown Hours.....	0.0	36.3	6,758.0
14. Hours Generator On-Line.....	744.0	7,225.2	90,996.7
15. Unit Reserve Shutdown Hours.....	0.0	0.0	0.0
16. Gross Thermal Energy Generated (MWH).....	980,724.3	17,223,414.5	240,176,186.9
17. Gross Electrical Energy Generated (MWH).....	320,478.0	5,669,058.0	78,926,905.0
18. Net Electrical Energy Generated (MWH).....	292,681.0	5,359,323.0	74,713,940.0
19. Unit Service Factor.....	100.0%	82.3%	71.5%
20. Unit Availability Factor.....	100.0%	82.3%	71.5%
21. Unit Capacity Factor (using MDC Net).....	46.4%	70.6%	65.7%
22. Unit Capacity Factor (using DER Net).....	43.4%	67.3%	64.7%
23. Forced Outage Rate.....	0.0%	0.0%	11.4%

24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each) Steam Generator Replacement and Refueling Outage, January 1993, approximately 120 days.

25. If Shutdown at end of Report Period, estimated time of Startup: N/A

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: Jan. 4, 1993
Contact: G. E. Kane
Phone: (703) 894-2101

MONTH: December 1992

DAY AVERAGE DAILY POWER
 LEVEL (MWe-Net)

1	<u>434</u>
2	<u>442</u>
3	<u>442</u>
4	<u>440</u>
5	<u>438</u>
6	<u>430</u>
7	<u>425</u>
8	<u>425</u>
9	<u>421</u>
10	<u>411</u>
11	<u>408</u>
12	<u>407</u>
13	<u>406</u>
14	<u>405</u>
15	<u>393</u>
16	<u>391</u>

DAY AVERAGE DAILY POWER
 LEVEL (MWe-Net)

17	<u>391</u>
18	<u>388</u>
19	<u>378</u>
20	<u>378</u>
21	<u>379</u>
22	<u>368</u>
23	<u>365</u>
24	<u>364</u>
25	<u>362</u>
26	<u>361</u>
27	<u>360</u>
28	<u>351</u>
29	<u>345</u>
30	<u>345</u>
31	<u>343</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 SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH: Dec. 1992

DOCKET NO.: 50-338
 UNIT NAME: NA-1
 DATE: Jan. 4, 1993
 CONTACT: G. E. Kane
 PHONE: (703) 894-2101

No.	Date	1 Type	2 Duration (hrs)	3 Reason	4 Method of Shutting Down Reactor	5 Licensee Event Report #	6 System Code	7 Component Code	8 Cause & Corrective Action to Prevent Recurrence
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*No entry this month.

1: Type	2: Reason	3: Method	4:
F=Forced	A=Equipment Failure (explain)	1=Manual	Exhibit F - Instructions for preparation of Data Entry Sheets for Licensee Event Report (LER) File (NUREG-0161)
S=Scheduled	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	5:
	G=Operational Error		Exhibit H - Same Source
	H=Other (explain)		

UNIT SHUTDOWN AND POWER REDUCTIONS
Explanation Sheet

Docket No.: 50-338

Report Month December Unit Name: NA-1

Year: 1992 Date: Jan. 4, 1993

Contact: G. E. Kane

*No entry this month.

NORTH ANNA POWER STATION

UNIT NO.: 1
MONTH: December

SUMMARY OF OPERATING EXPERIENCE

Page 1 of 1

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>
December	01, 1992 0000	Began month with unit at 50% power, 475 MWe, in a power coastdown.
December	17, 1992 1408	Turbine automatically shifted to Manual control and subsequently started to gradually unload due to a problem in the control circuitry. Load was held manually by Operator action.
December	18, 1992 1440	Turbine returned to Automatic control following replacement of faulty logic cards.
December	19, 1992 1820	All MSR reheat steam supply FCVs failed shut due to a failed power supply. Lost approximately 30 MWe to stabilize at 392MWe.
December	20, 1992 0900	Returned to full power of 422 MWe after reopening the MSR reheat steam supply FCVs.
December	31, 1992 2400	Ended month with unit at 40% power, 383 MWe.

OPERATING DATA REPORT

DOCKET NO.: 50-339
 DATE: January 4, 1993
 CONTACT: G. E. Kane
 PHONE: (703) 894-2101

OPERATING STATUS

1. Unit Name:.....North Anna 2
2. Reporting Period:.....December 1992
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):.. 957
7. Maximum Dependable Capacity (Net MWe):.... 909

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	Y-t-D	Cumulative
11. Hours in Reporting Period.....	744.0	8,784.0	105,624.0
12. Number of Hours Reactor was Critical.....	744.0	7,308.3	87,044.2
13. Reactor Reserve Shutdown Hours.....	0.0	187.0	6,244.4
14. Hours Generator On-Line.....	744.0	7,238.7	86,013.1
15. Unit Reserve Shutdown Hours.....	0.0	0.0	0.0
16. Gross Thermal Energy Generated (MWH)	2,151,477.7	20,307,631.4	232,124,764.5
17. Gross Electrical Energy Generated (MWH).....	706,945.0	6,656,590.0	76,036,716.0
18. Net Electrical Energy Generated (MWH).....	673,319.0	6,324,748.0	72,824,481.0
19. Unit Service Factor.....	100.0%	82.4%	81.4%
20. Unit Availability Factor.....	100.0%	82.4%	81.4%
21. Unit Capacity Factor (using MDC Net).....	99.6%	79.2%	76.6%
22. Unit Capacity Factor (using DER Net).....	99.8%	79.4%	76.0%
23. Forced Outage Rate.....	0.0%	0.9%	5.6%

24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each): _____ N/A _____

25. If Shutdown at end of Report Period, estimated time of Startup: _____ N/A _____

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: Jan. 4, 1993
 Contact: G. E. Kane
 Phone: (703) 894-2101

MONTH: December 1992

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>905</u>	17	<u>906</u>
2	<u>905</u>	18	<u>905</u>
3	<u>905</u>	19	<u>901</u>
4	<u>906</u>	20	<u>905</u>
5	<u>907</u>	21	<u>905</u>
6	<u>907</u>	22	<u>905</u>
7	<u>907</u>	23	<u>905</u>
8	<u>905</u>	24	<u>905</u>
9	<u>905</u>	25	<u>904</u>
10	<u>905</u>	26	<u>905</u>
11	<u>904</u>	27	<u>905</u>
12	<u>905</u>	28	<u>905</u>
13	<u>905</u>	29	<u>904</u>
14	<u>905</u>	30	<u>905</u>
15	<u>905</u>	31	<u>903</u>
16	<u>906</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 SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH: Dec. 1992

DOCKET NO.: 50-339
UNIT NAME: NA-2
DATE: Jan. 4, 1993
CONTACT: G. E. Kane
PHONE: (703) 894-2101

No.	Date	1 Type	2 Duration (hrs)	3 Reason	3 Method of Shutting Down Reactor	Licensee Event Report #	4 System Code	5 Component Code	Cause & Corrective Action to Prevent Recurrence
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* 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
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

UNIT SHUTDOWN AND POWER REDUCTIONS
Explanation Sheet

Docket No.: 50-339

Report Month December Unit Name: NA-2

Year: 1992 Date: Jan. 4, 1993

Contact: G. E. Kane

*No entry this month.

NORTH ANNA POWER STATION

UNIT NO.: 2
MONTH: December

SUMMARY OF OPERATING EXPERIENCE

Page 1 of 1

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>
December 01, 1992	0000	Began month with unit at 100% power, 945 MWe.
December 19, 1992	0913	Commence rampdown to 92% power for TVFT.
	0950	Unit stable at 92% power, 880 MWe.
	1053	Commenced ramp to 100% power following satisfactory completion of TVFT.
	1220	Unit stable at 100% power, 951 MWe.
December 31, 1992	2400	Ended month with unit at 100% power, 945 MWe.