



Entergy

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December 15, 1999

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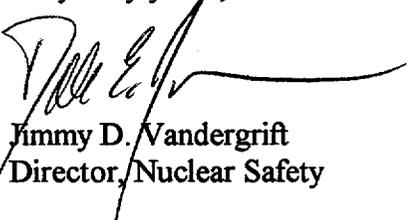
U. S. Nuclear Regulatory Commission
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Subject: Arkansas Nuclear One - Units 1 and 2
Docket Nos. 50-313 and 50-368
License Nos. DPR-51 and NPF-6
Monthly Operating Report

Gentlemen:

Arkansas Nuclear One (ANO), Units 1 and 2 Technical Specifications 6.12.2.3 and 6.9.1.6, respectively, require the submittal of a Monthly Operating Report. The purpose of this letter is to complete the reporting requirement for November 1999.

Very truly yours,

SD

Jimmy D. Vandergrift
Director, Nuclear Safety

JDV/SLP
Attachment

IE24

cc: Mr. Ellis W. Merschoff
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U. S. Nuclear Regulatory Commission
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Arkansas Nuclear One

Unit 1

Monthly Operating Report

OPERATING DATA REPORT

DOCKET NO: 50-313
 UNIT: ANO Unit 1
 DATE: Dec. 15, 1999
 COMPLETED BY: Steven L. Coffman
 TELEPHONE: (501) 858-5560

OPERATING STATUS

1. Unit Name: Arkansas Nuclear One - Unit 1
2. Reporting Period: November 1-30
3. Licensed Thermal Power (MWt): 2,568
4. Nameplate Rating (Gross MWe): 903
5. Design Electrical Rating (Net MWe): 850
6. Maximum Dependable Capacity (Gross MWe): 883
7. Maximum Dependable Capacity (Net MWe): 836
8. If Changes Occur in Capacity Ratings (Items Number 3 Through 7) Since Last Report, Give Reasons: _____
9. Power Level To Which Restricted. If Any (Net MWe): _____
10. Reasons For Restrictions. If Any: _____

	<u>MONTH</u>	<u>YR-TO-DATE</u>	<u>CUMULATIVE</u>
11. Hours in Reporting Period	<u>720.0</u>	<u>8,016.0</u>	<u>218,707.0</u>
12. Number of Hours Reactor Was Critical	<u>720.0</u>	<u>7,218.8</u>	<u>167,899.4</u>
13. Reactor Reserve Shutdown Hours	<u>0.0</u>	<u>0.0</u>	<u>5,044.0</u>
14. Hours Generator On-Line	<u>701.2</u>	<u>7,165.0</u>	<u>165,349.9</u>
15. Unit Reserve Shutdown Hours	<u>0.0</u>	<u>0.0</u>	<u>817.5</u>
16. Gross Thermal Energy Generated (MWH)	<u>1,786,072</u>	<u>18,259,779</u>	<u>390,415,338</u>
17. Gross Electrical Energy Generated (MWH)	<u>623,800</u>	<u>6,336,662</u>	<u>131,556,761</u>
18. Net Electrical Energy Generated (MWH)	<u>597,949</u>	<u>6,075,264</u>	<u>125,326,652</u>
19. Unit Service Factor	<u>97.4</u>	<u>89.4</u>	<u>75.6</u>
20. Unit Availability Factor	<u>97.4</u>	<u>89.4</u>	<u>76.0</u>
21. Unit Capacity Factor (Using MDC Net)	<u>99.3</u>	<u>90.7</u>	<u>68.5</u>
22. Unit Capacity Factor (Using DER Net)	<u>97.7</u>	<u>89.2</u>	<u>67.4</u>
23. Unit Forced Outage Rate	<u>0.0</u>	<u>1.6</u>	<u>8.9</u>

24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):
A shutdown is planned January 7, 2000 for a Reactor Coolant Pump oil leak repair with an expected duration of approximately 2 days

25. If Shut Down At End of Report Period. Estimated Date of Startup: _____

26. Units in Test Status (Prior to Commercial Operation):

	<u>Forecast</u>	<u>Achieved</u>
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INITIAL CRITICALITY	_____	<u>08/06/74</u>
INITIAL ELECTRICITY	_____	<u>08/17/74</u>
COMMERCIAL OPERATION	_____	<u>12/19/74</u>

**UNIT SHUTDOWNS AND POWER REDUCTIONS
REPORT FOR November, 1999**

DOCKET NO.	<u>50-313</u>
UNIT NAME	<u>ANO Unit 1</u>
DATE	<u>Dec. 15, 1999</u>
COMPLETED BY	<u>Steven L. Coffman</u>
TELEPHONE	<u>501-858-5560</u>

<u>NO.</u>	<u>DATE</u>	<u>TYPE</u> ¹	<u>DURATION</u> <u>(HOURS)</u>	<u>REASON</u> ²	<u>METHOD OF</u> <u>SHUTTING DOWN</u> <u>REACTOR</u> ³	<u>LICENSEE</u> <u>EVENT</u> <u>REPORT #</u>	<u>SYSTEM</u> <u>CODE</u> ⁴	<u>COMPONENT</u> <u>CODE</u> ⁵	<u>CAUSE & CORRECTIVE ACTION TO</u> <u>PREVENT RECURRENCE</u>
99-03	991106	S	18.8	H	1	N/A	TG	TBLK	Shutdown to replace a potentially defective Turbine Trip Block Diaphragm as recommended by the turbine vendor.

1
F: Forced
S: Scheduled

2
Reason:
A - Equipment Failure (Explain)
B - Maintenance of Test
C - Refueling
D- Regulatory Restriction
E - Operator Training & License Examination
F - Administration
G - Operational Error
H - Other (Explain)

3
Method:
1 - Manual
2 - Manual Scram.
3 - Automatic Scram.
4 - Continuation
5 - Load Reduction
9 - Other

4
Exhibit G - Instructions
for Preparation of Data
Entry Sheets for Licensee
Event Report (LER) File (NUREG-0161)

5
Exhibit I - Same Source

NRC MONTHLY OPERATING REPORT

OPERATING SUMMARY

November 1999

UNIT ONE

The Unit began the month at full power. At 2200 hours on the fifth, a power reduction was commenced to replace a potentially defective turbine trip block diaphragm as recommended by the turbine vendor. At 0157 hours on the sixth, the turbine was taken off line, while the reactor remained critical. At 2043 hours on the sixth, the Unit was tied back to the grid and achieved full power at 0440 hours the following day. The Unit continued to operate at full power for the remainder of the month.

Note: There were no challenges to the primary system code safeties nor automatic actuations of the electromatic relief valve during this reporting period.

Arkansas Nuclear One

Unit 2

Monthly Operating Report

OPERATING DATA REPORT

DOCKET NO: 50-368
 UNIT: ANO Unit 2
 DATE: Dec. 15, 1999
 COMPLETED BY: Steven L. Coffman
 TELEPHONE: (501) 858-5560

OPERATING STATUS

1. Unit Name: Arkansas Nuclear One - Unit 2
2. Reporting Period: November 1-30
3. Licensed Thermal Power (MWt): 2,815
4. Nameplate Rating (Gross MWe): 942.57
5. Design Electrical Rating (Net MWe): 912
6. Maximum Dependable Capacity (Gross MWe): 897
7. Maximum Dependable Capacity (Net MWe): 858
8. If Changes Occur in Capacity Ratings (Items Number 3 Through 7) Since Last Report, Give Reasons: _____
9. Power Level To Which Restricted. If Any (Net MWe): _____
10. Reasons For Restrictions. If Any: _____

	<u>MONTH</u>	<u>YR-TO-DATE</u>	<u>CUMULATIVE</u>
11. Hours in Reporting Period	<u>720.0</u>	<u>8,016.0</u>	<u>172,536.0</u>
12. Number of Hours Reactor Was Critical	<u>329.7</u>	<u>6,515.2</u>	<u>138,102.8</u>
13. Reactor Reserve Shutdown Hours	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>
14. Hours Generator On-Line	<u>322.7</u>	<u>6,476.1</u>	<u>135,814.2</u>
15. Unit Reserve Shutdown Hours	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>
16. Gross Thermal Energy Generated (MWH)	<u>741,822</u>	<u>17,809,393</u>	<u>364,354,178</u>
17. Gross Electrical Energy Generated (MWH)	<u>234,208</u>	<u>5,832,942</u>	<u>120,089,275</u>
18. Net Electrical Energy Generated (MWH)	<u>221,186</u>	<u>5,567,221</u>	<u>114,346,089</u>
19. Unit Service Factor	<u>44.8</u>	<u>80.8</u>	<u>78.7</u>
20. Unit Availability Factor	<u>44.8</u>	<u>80.8</u>	<u>78.7</u>
21. Unit Capacity Factor (Using MDC Net)	<u>35.8</u>	<u>80.9</u>	<u>77.2</u>
22. Unit Capacity Factor (Using DER Net)	<u>33.7</u>	<u>76.2</u>	<u>72.7</u>
23. Unit Forced Outage Rate	<u>0.0</u>	<u>0.0</u>	<u>8.7</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):
- | | <u>Forecast</u> | <u>Achieved</u> |
|----------------------|-----------------|-----------------|
| INITIAL CRITICALITY | _____ | <u>12/05/78</u> |
| INITIAL ELECTRICITY | _____ | <u>12/26/78</u> |
| COMMERCIAL OPERATION | _____ | <u>03/26/80</u> |

**UNIT SHUTDOWNS AND POWER REDUCTIONS
REPORT FOR November 1999**

DOCKET NO.	<u>50-368</u>
UNIT NAME	<u>ANO Unit 2</u>
DATE	<u>Dec. 15, 1999</u>
COMPLETED BY	<u>Steven L. Coffman</u>
TELEPHONE	<u>501-858-5560</u>

<u>NO.</u>	<u>DATE</u>	<u>TYPE</u> ¹	<u>DURATION</u> <u>(HOURS)</u>	<u>REASON</u> ²	<u>METHOD OF</u> <u>SHUTTING DOWN</u> <u>REACTOR</u> ³	<u>LICENSEE</u> <u>EVENT</u> <u>REPORT #</u>	<u>SYSTEM</u> <u>CODE</u> ⁴	<u>COMPONENT</u> <u>CODE</u> ⁵	<u>CAUSE & CORRECTIVE ACTION TO</u> <u>PREVENT RECURRENCE</u>
99-02	991105	S	38.3	H	5	N/A	ZZ	ZZZZZZ	After commencing a power reduction for Steam Generator mid cycle inspection, the System dispatcher held the Unit at 54% for load demand.
99-03	991107	S	397.3	H	1	N/A	ZZ	ZZZZZZ	Shutdown for 2P99 Steam Generator mid-cycle inspection outage

1
F: Forced
S: Scheduled

2
Reason:
A - Equipment Failure (Explain)
B - Maintenance of Test
C - Refueling
D- Regulatory Restriction
E - Operator Training & License Examination
F - Administration
G - Operational Error
H - Other (Explain)

3
Method:
1 - Manual
2 - Manual Scram.
3 - Automatic Scram.
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5
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NRC MONTHLY OPERATING REPORT

OPERATING SUMMARY

November 1999

UNIT TWO

The Unit began the month at full power. At 2224 hours on the fourth, a power reduction was commenced in preparation for 2P99 Steam Generator mid-cycle inspection outage. After holding at 54% for system dispatcher load demand, the unit was taken off line at 0000 hours on the seventh. Following the mid cycle outage, the Unit achieved criticality at 0619 hours on the twenty-third. The Unit was placed back on line at 1319 hours on the twenty-third, and achieved full power at 2325 hours on the twenty-sixth.

Note: There were no challenges to the primary system code safeties nor automatic actuations of the low temperature overpressure protection valves during this reporting period.