



ENTERGY

Entergy Operations, Inc.

1448 S.R. 333

Russellville, AR 72801

Tel 501 858-5000

June 16, 1997

OCAN069703

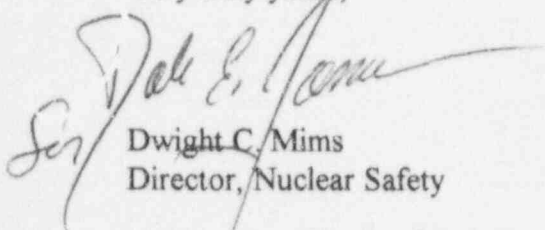
U. S. Nuclear Regulatory Commission
Document Control Desk
Mail Station OP1-17
Washington, DC 20555

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 May 1997.

Very truly yours,



Dwight C. Mims
Director, Nuclear Safety

DCM/eam
attachment

Te 24

9706240325 970531
PDR ADOCK 05000313
R PDR



200075

cc: Mr. Ellis W. Merschoff
Regional Administrator
U. S. Nuclear Regulatory Commission
Region IV
611 Ryan Plaza Drive, Suite 400
Arlington, TX 76011-8064

NRC Senior Resident Inspector
Arkansas Nuclear One
P.O. Box 310
London, AR 72847

Mr. George Kalman
NRR Project Manager Region IV/ANO-1 & 2
U. S. Nuclear Regulatory Commission
NRR Mail Stop 13-H-3
One White Flint North
11555 Rockville Pike
Rockville, MD 20852

Arkansas Nuclear One

Unit 1

Monthly Operating Report

OPERATING DATA REPORT

DOCKET NO: 50-313
 DATE: June 16, 1997
 COMPLETED BY: M. S. Whitt
 TELEPHONE: (501) 858-5560

OPERATING STATUS

1. Unit Name: Arkansas Nuclear One - Unit 1
2. Reporting Period: May 1-31
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: _____

	MONTH	YR-TO-DATE	CUMULATIVE
11. Hours in Reporting Period	744.0	3,623.0	196,794.0
12. Number of Hours Reactor Was Critical	744.0	3,623.0	148,118.6
13. Reactor Reserve Shutdown Hours	0.0	0.0	5,044.0
14. Hours Generator On-Line	744.0	3,623.0	145,718.3
15. Unit Reserve Shutdown Hours	0.0	0.0	817.5
16. Gross Thermal Energy Generated (MWH)	1,906,193	8,937,507	340,465,297
17. Gross Electrical Energy Generated (MWH)	662,110	3,115,134	114,264,510
18. Net Electrical Energy Generated (MWH)	634,855	2,984,839	108,770,071
19. Unit Service Factor	100.0	100.0	74.0
20. Unit Availability Factor	100.0	100.0	74.5
21. Unit Capacity Factor (Using MDC Net)	102.1	98.5	66.1
22. Unit Capacity Factor (Using DER Net)	100.4	96.9	65.0
23. Unit Forced Outage Rate	0.0	0.0	9.7
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):

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

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO: 50-313
UNIT: One
DATE: June 16, 1997
COMPLETED BY: M. S. Whitt
TELEPHONE: (501) 858-5560

MONTH May 1997

DAY AVERAGE DAILY POWER LEVEL
(MWe-Net)

1	858
2	856
3	856
4	856
5	856
6	844
7	855
8	856
9	855
10	853
11	854
12	855
13	854
14	855
15	855
16	848
17	852
18	853
19	853
20	852
21	852
22	853
23	854
24	854
25	854
26	853
27	851
28	853
29	852
30	851
31	851

AVGS: 853

INSTRUCTION

On this format, list the average daily unit power level in MWe-Net for each day in reporting month.
Complete to the nearest whole megawatt.

**UNIT SHUTDOWNS AND POWER REDUCTIONS
REPORT FOR MAY 1997**

DOCKET NO.	50-313
UNIT NAME	ANO Unit 1
DATE	June 16, 1997
COMPLETED BY	M. S. Whitt
TELEPHONE	501-858-5560

<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>
none									

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

REFUELING INFORMATION

1. Name of facility: Arkansas Nuclear One - Unit 1
2. Scheduled date for next refueling shutdown: March 20, 1998
3. Scheduled date for restart following refueling: May 9, 1998
4. Will refueling or resumption of operation thereafter require a technical specification change or other license amendment? If answer is yes, what, in general, will there be? If answer is no, has the reload fuel design and core configuration been reviewed by your Plant Safety Review Committee to determine whether any unreviewed safety questions are associated with the core reload (Ref. 10CFR Section 50.59)?

No, No

5. Scheduled date(s) for submitting proposed licensing action and supporting information:

N/A

6. Important licensing considerations associated with refueling, e.g., new or different fuel design or supplier, unreviewed design or performance analysis methods, significant changes in fuel design, new operating procedures.

None planned

7. The number of fuel assemblies (a) in the core, (b) in the spent fuel storage pool and (c) dry cask storage:

a) 177 b) 758 c) 48

8. The present licensed spent fuel pool storage capacity and the size of any increase in licensed storage capacity that has been requested or is planned, in number of fuel assemblies:

present 968 increase size by 0

9. The projected date of the last refueling that can be discharged to the spent fuel pool assuming the present licensed capacity:

Full core off-load capability no longer available until a sufficient amount of spent fuel can be placed in on-site dry storage.

NRC MONTHLY OPERATING REPORT
OPERATING SUMMARY
MAY 1997
UNIT ONE

The month began with the unit operating at 100% power.

The monthly turbine governor valve test commenced at 2202 hours on the sixteenth and completed at 0030 hours on the seventeenth. At 0700 hours on the eighteenth, a load reduction was commenced due to condenser tube leak repair work. Repairs were completed at 1950 hours that same day. The unit operated the remainder of the month at 100% power.

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
 DATE: June 16, 1997
 COMPLETED BY: M. S. Whitt
 TELEPHONE: (501) 858-5560

OPERATING STATUS

1. Unit Name: Arkansas Nuclear One - Unit 2
2. Reporting Period: May 1-31
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): 884
10. Reasons For Restrictions. If Any: Self imposed power restriction to ~ 97.0% power based on T-hot limitations in combination with steam generator plugging and fouling levels.

	MONTH	YR-TO-DATE	CUMULATIVE
11. Hours in Reporting Period	744.0	3,623.0	150,623.0
12. Number of Hours Reactor Was Critical	215.6	3,094.6	118,628.9
13. Reactor Reserve Shutdown Hours	0.0	0.0	0.0
14. Hours Generator On-Line	215.6	3,094.6	116,422.5
15. Unit Reserve Shutdown Hours	0.0	0.0	0.0
16. Gross Thermal Energy Generated (MWH)	536,406	8,349,492	310,684,909
17. Gross Electrical Energy Generated (MWH)	179,392	2,823,286	102,574,531
18. Net Electrical Energy Generated (MWH)	168,392	2,694,425	97,638,989
19. Unit Service Factor	29.0	85.4	77.3
20. Unit Availability Factor	29.0	85.4	77.3
21. Unit Capacity Factor (Using MDC Net)	26.4	86.7	75.6
22. Unit Capacity Factor (Using DER Net)	24.8	81.5	71.1
23. Unit Forced Outage Rate	0.0	0.0	9.9
24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):			
Refueling Outage 2R12 scheduled to begin May 9, 1997, with an expected duration of 45 days			

25. If Shut Down At End of Report Period. Estimated Date of Startup: June 9, 1997
26. Units in Test Status (Prior to Commercial Operation):

	Forecast	Achieved
INITIAL CRITICALITY	_____	12/05/78
INITIAL ELECTRICITY	_____	12/26/78
COMMERCIAL OPERATION	_____	03/26/80

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO: 50-368
 UNIT: Two
 DATE: June 16, 1997
 COMPLETED BY: M. S. Whitt
 TELEPHONE: (501) 858-5560

MONTH May 1997

DAY AVERAGE DAILY POWER LEVEL
 (MWe-Net)

1	878
2	880
3	883
4	883
5	881
6	873
7	701
8	601
9	538
10	-24
11	-13
12	-4
13	-4
14	-4
15	-4
16	-3
17	-3
18	-3
19	-2
20	-3
21	-3
22	-3
23	-3
24	-4
25	-4
26	-4
27	-4
28	-4
29	-2
30	-4
31	-4

AVGS: 226

INSTRUCTION

On this format, list the average daily unit power level in MWe-Net for each day in reporting month.
 Complete to the nearest whole megawatt.

**UNIT SHUTDOWNS AND POWER REDUCTIONS
REPORT FOR MAY 1997**

DOCKET NO.	50-368
UNIT NAME	ANO Unit 2
DATE	June 16, 1997
COMPLETED BY	M. S. Whitt
TELEPHONE	501-858-5560

<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>
97-04	970507	S	74.8	C	5	N/A	ZZ	ZZZZZZ	Down power for pre-2R12 refueling outage activities.
97-05	970509	S	528.5	C	1	N/A	ZZ	ZZZZZZ	Unit off line for Refueling Outage 2R12.

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

REFUELING INFORMATION

1. Name of facility: Arkansas Nuclear One - Unit 2
2. Scheduled date for next refueling shutdown: January 8, 1999
3. Scheduled date for restart following refueling: February 22, 1999
4. Will refueling or resumption of operation thereafter require a technical specification change or other license amendment? If answer is yes, what, in general, will there be? If answer is no, has the reload fuel design and core configuration been reviewed by your Plant Safety Review Committee to determine whether any unreviewed safety questions are associated with the core reload (Ref. 10CFR Section 50.59)?

No, No
5. Scheduled date(s) for submitting proposed licensing action and supporting information:

N/A
6. Important licensing considerations associated with refueling, e.g., new or different fuel design or supplier, unreviewed design or performance analysis methods, significant changes in fuel design, new operating procedures.

None planned
7. The number of fuel assemblies (a) in the core (b) in the spent fuel storage pool and (c) dry cask storage:

a) 177 b) 749 c) 48
8. The present licensed spent fuel pool storage capacity and the size of any increase in licensed storage capacity that has been requested or is planned, in number of fuel assemblies:

present 988 increase size by 0
9. The projected date of the last refueling that can be discharged to the spent fuel pool assuming the present licensed capacity:

DATE: June 1997 (Loss of full core off-load capability)

NRC MONTHLY OPERATING REPORT

OPERATING SUMMARY

MAY 1997

UNIT TWO

The month began with the unit operating at 97% power.

At 2044 hours on the sixth, a power reduction to 65% was commenced for pre-2R12 outage activities. Refueling Outage 2R12 officially began at 2333 hours on the ninth; the unit remained off line for refueling the remainder of the month.

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