

DAVIS BESSE

Docket No. 50-346

cc:

Mary E. O'Reilly  
Centerior Energy Corporation  
300 Madison Avenue  
Toledo, OH 43652

Mr. James L. Freels  
Manager - Regulatory Affairs  
Toledo Edison Company  
Davis-Besse Nuclear Power Plant  
5501 North State - Route 2  
Oak Harbor, Ohio 43449

Gerald Charnoff, Esq.  
Shaw, Pittman, Potts  
and Trowbridge  
2300 N Street N.W.  
Washington, D.C. 20037

Mr. Robert B. Borsum  
Babcock & Wilcox  
Nuclear Power Generation Division  
1700 Rockville Pike, Suite 525  
Rockville, Maryland 20852

Resident Inspector  
U.S. Nuclear Regulatory Commission  
5503 N. State Route 2  
Oak Harbor, Ohio 43449

Mr. James H. Lash, Plant Manager  
Toledo Edison Company  
Davis-Besse Nuclear Power Station  
5501 North State Route 2  
Oak Harbor, Ohio 43449

Robert E. Owen, Chief  
Bureau of Radiological Health  
Service  
Ohio Department of Health  
P. O. Box 118  
Columbus, Ohio 43266-0118

Attorney General  
Department of Attorney  
General  
30 East Broad Street  
Columbus, Ohio 43216

Mr. James W. Harris, Director  
Division of Power Generation  
Ohio Department of Industrial  
Regulations  
P.O. Box 825  
Columbus, Ohio 43216

Ohio Environmental Protection Agency  
DERR--Compliance Unit  
ATTN: Zack A. Clayton  
P. O. Box 1049  
Columbus, OH 43266-0149

State of Ohio  
Public Utilities Commission  
180 East Broad Street  
Columbus, Ohio 43266-0573

Mr. James R. Williams  
State Liaison to the NRC  
Adjutant General's Department  
Office of Emergency Management Agency  
2855 West Dublin Granville Road  
Columbus, Ohio 43235-2206

President, Board of County  
Commissioners of Ottawa County  
Port Clinton, Ohio 43452

Roy P. Lessy, Jr., Esq.  
Andrew G. Berg, Esq.  
Akin, Gump, Strauss, Hauer & Feld,  
L.L.P.  
1333 New Hampshire Avenue, N.W.  
Suite 400  
Washington, D.C. 20036



Entergy

Entergy Operations, Inc.  
1448 S.R. 333  
Russellville, AR 72801  
Tel 501 858-5000

October 14, 1998

OCAN109806

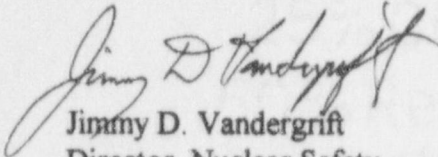
U. S. Nuclear Regulatory Commission  
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Washington, DC 20555

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 September 1998.

Very truly yours,

  
Jimmy D. Vandergrift  
Director, Nuclear Safety

JDV/nbm  
attachments

9810190341 980930  
PDR ADOCK 05000313  
R PDR

1/1  
J24

U. S. NRC  
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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. William Reckley  
NRR Project Manager Region IV/ANO-1 & 2  
U. S. Nuclear Regulatory Commission  
NRR Mail Stop 0-13-G-8  
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: October 1, 1998  
 COMPLETED BY: Steve Coffman  
 TELEPHONE: (501) 858-5560

OPERATING STATUS

1. Unit Name: Arkansas Nuclear One - Unit 1
2. Reporting Period: September 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: \_\_\_\_\_

|  | MONTH     | YR-TO-DATE | CUMULATIVE  |
|--|-----------|------------|-------------|
| 11. Hours in Reporting Period  | 720.0     | 6,551.0    | 208,482.0   |
| 12. Number of Hours Reactor Was Critical                                       | 720.0     | 5,365.0    | 158,620.6   |
| 13. Reactor Reserve Shutdown Hours   | 0.0       | 0.0        | 5,044.0     |
| 14. Hours Generator On-Line  | 720.0     | 5,314.4    | 156,133.4   |
| 15. Unit Reserve Shutdown Hours  | 0.0       | 0.0        | 817.5       |
| 16. Gross Thermal Energy Generated (MWH)                                       | 1,847,903 | 13,509,977 | 366,894,729 |
| 17. Gross Electrical Energy Generated (MWH)                                    | 637,286   | 4,668,574  | 123,387,446 |
| 18. Net Electrical Energy Generated (MWH)                                      | 610,741   | 4,461,796  | 117,498,132 |
| 19. Unit Service Factor  | 100.0     | 81.1       | 74.9        |
| 20. Unit Availability Factor   | 100.0     | 81.1       | 75.3        |
| 21. Unit Capacity Factor (Using MDC Net)                                       | 101.5     | 81.5       | 67.4        |
| 22. Unit Capacity Factor (Using DER Net)                                       | 99.8      | 80.1       | 66.3        |
| 23. Unit Forced Outage Rate  | 0.0       | 3.4        | 9.2         |
| 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  | _____    | <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 SEPTEMBER, 1998**

|                     |                        |
|---------------------|------------------------|
| <b>DOCKET NO.</b>   | <u>50-313</u>          |
| <b>UNIT NAME</b>    | <u>ANO Unit 1</u>      |
| <b>DATE</b>         | <u>October 1, 1998</u> |
| <b>COMPLETED BY</b> | <u>Steve Coffman</u>   |
| <b>TELEPHONE</b>    | <u>501-858-5560</u>    |

| <u>NO.</u> | <u>DATE</u> | <u>TYPE</u> <sup>1</sup> | <u>DURATION</u><br><u>(HOURS)</u> | <u>REASON</u> <sup>2</sup> | <u>METHOD OF</u><br><u>SHUTTING DOWN</u><br><u>REACTOR</u> <sup>3</sup> | <u>LICENSEE</u><br><u>EVENT</u><br><u>REPORT #</u> | <u>SYSTEM</u><br><u>CODE</u> <sup>4</sup> | <u>COMPONENT</u><br><u>CODE</u> <sup>5</sup> | <u>CAUSE &amp; CORRECTIVE ACTION TO</u><br><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

**NRC MONTHLY OPERATING REPORT**  
**OPERATING SUMMARY**  
**SEPTEMBER 1998**  
**UNIT ONE**

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The unit began the month operating at 100% power. At 2000 hours on the eleventh, a power reduction to 85% was commenced for the monthly turbine governor valve test. Following the completion of the test, the unit was returned to 100% power at 2247 hours that same day. The unit operated the remainder of the month at full power.

Note: There were no challenges to the primary system code safeties nor automatic actuations of the electromatic relief valve (ERV) that occurred during the month.



**REFUELING INFORMATION**

1. Name of facility: Arkansas Nuclear One - Unit 1
2. Scheduled date for next refueling shutdown: September 10, 1999
3. Scheduled date for restart following refueling: October 14, 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)?

There are no reload related technical specification changes identified for the refueling outage.

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) 818                      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 is no longer available until a sufficient amount of spent fuel can be placed in on-site dry storage.

**Arkansas Nuclear One**  
**Unit 2**  
**Monthly Operating Report**

OPERATING DATA REPORT

DOCKET NO: 50-368  
 DATE: October 1, 1998  
 COMPLETED BY: Steve Coffinan  
 TELEPHONE: (501) 858-5560

OPERATING STATUS

1. Unit Name: Arkansas Nuclear One - Unit 2
2. Reporting Period: September 1-30
3. Licensed Thermal Power (MWt): 2,815
4. Nameplate Rating (Gross MWe): 942.57
5. Design Electrical Rating (Net MWe): 896
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>6,551.0</u>    | <u>162,311.0</u>   |
| 12. Number of Hours Reactor Was Critical  | <u>720.0</u>     | <u>5,800.7</u>    | <u>129,378.6</u>   |
| 13. Reactor Reserve Shutdown Hours  | <u>0.0</u>       | <u>0.0</u>        | <u>0.0</u>         |
| 14. Hours Generator On-Line   | <u>720.0</u>     | <u>5,786.8</u>    | <u>127,129.1</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>2,025,991</u> | <u>16,072,179</u> | <u>340,455,629</u> |
| 17. Gross Electrical Energy Generated (MWH)   | <u>657,644</u>   | <u>5,215,678</u>  | <u>112,258,425</u> |
| 18. Net Electrical Energy Generated (MWH)   | <u>627,928</u>   | <u>4,969,629</u>  | <u>106,871,222</u> |
| 19. Unit Service Factor   | <u>100.0</u>     | <u>88.3</u>       | <u>78.3</u>        |
| 20. Unit Availability Factor  | <u>100.0</u>     | <u>88.3</u>       | <u>78.3</u>        |
| 21. Unit Capacity Factor (Using MDC Net)  | <u>101.6</u>     | <u>88.4</u>       | <u>76.7</u>        |
| 22. Unit Capacity Factor (Using DER Net)  | <u>95.6</u>      | <u>83.2</u>       | <u>72.2</u>        |
| 23. Unit Forced Outage Rate   | <u>0.0</u>       | <u>2.8</u>        | <u>9.2</u>         |
| 24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):<br><u>2R13 Refueling Outage and condenser replacement, January 9, 1999, scheduled for 45 days.</u> |                  |                   |                    |

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 SEPTEMBER, 1998**

**DOCKET NO.** 50-368  
**UNIT NAME** ANO Unit 2-  
**DATE** October 1, 1998  
**COMPLETED BY** Steve Coffman  
**TELEPHONE** 501-858-5560

| <u>NO.</u> | <u>DATE</u> | <u>TYPE</u> <sup>1</sup> | <u>DURATION</u><br><u>(HOURS)</u> | <u>REASON</u> <sup>2</sup> | <u>METHOD OF</u><br><u>SHUTTING DOWN</u><br><u>REACTOR</u> <sup>3</sup> | <u>LICENSEE</u><br><u>EVENT</u><br><u>REPORT #</u> | <u>SYSTEM</u><br><u>CODE</u> <sup>4</sup> | <u>COMPONENT</u><br><u>CODE</u> <sup>5</sup> | <u>CAUSE &amp; CORRECTIVE ACTION TO</u><br><u>PREVENT RECURRENCE</u> |
|------------|-------------|--------------------------|-----------------------------------|----------------------------|---|--|---|--|--|
| none       |             |                          |                                   |                            |   |  |   |  |  |

<sup>1</sup>  
**F: Forced**  
**S: Scheduled**

<sup>2</sup>  
**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)**

<sup>3</sup>  
**Method:**  
**1 - Manual**  
**2 - Manual Scram.**  
**3 - Automatic Scram.**  
**4 - Continuation**  
**5 - Load Reduction**  
**9 - Other**

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

<sup>5</sup>  
**Exhibit I - Same Source**

**NRC MONTHLY OPERATING REPORT**

**OPERATING SUMMARY**

**SEPTEMBER 1998**

**UNIT TWO**

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The unit operated the entire month at 100% power.

Note: There were no challenges to the primary system code safeties nor automatic actuations of the low temperature overpressure protection valves (LTOP's) that occurred during the month.

**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)?

There are no reload related technical specification changes identified for the refueling outage.

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) 701                      c) 96
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:    January 1999    (loss of full core off-load capability)