



ARKANSAS POWER & LIGHT COMPANY
POST OFFICE BOX 551 LITTLE ROCK, ARKANSAS 72203 (501) 371-4000

November 14, 1979

1-119-7

Mr. Norman M. Haller, Director
Office of Management and
Program Analysis
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Subject: Arkansas Nuclear One-Unit 1
Docket No. 50-313
License No. DPR-51
Monthly Operating Report
(File: 0520.1)

Gentlemen:

Attached find the Monthly Operating Report for October, 1979, for Arkansas Nuclear One - Unit 1. Also attached is the 30 EFPD interval report of Core Power distribution RMS values as required per our submittal of April 26, 1979, (Ref. 1-049-16).

Very truly yours,

David C. Trimble

David C. Trimble
Manager, Licensing

DCT/DVH/ew
Attachments

cc: Mr. K. V. Seyfrit, Director
Office of Inspection and Enforcement
U.S. Nuclear Regulatory Commission
Region IV
611 Ryan Plaza Drive, Suite 1000
Arlington, Texas 76011

Mr. Victor Stello, Jr., Director
Office of Inspection & Enforcement
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

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AVERAGE DAILY UNIT POWER LEVEL : 0

DOCKET NO. 50-313

UNIT ANO Unit-1

DATE 11/14/79

COMPLETED BY L. S. Bramlett

TELEPHONE 501/968-2519

MONTH October 1979

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>823</u>
2	<u>821</u>
3	<u>825</u>
4	<u>824</u>
5	<u>824</u>
6	<u>824</u>
7	<u>826</u>
8	<u>825</u>
9	<u>825</u>
10	<u>826</u>
11	<u>825</u>
12	<u>823</u>
13	<u>824</u>
14	<u>828</u>
15	<u>828</u>
16	<u>827</u>

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
17	<u>827</u>
18	<u>826</u>
19	<u>765</u>
20	<u>2</u>
21	<u>0</u>
22	<u>0</u>
23	<u>0</u>
24	<u>0</u>
25	<u>0</u>
26	<u>0</u>
27	<u>0</u>
28	<u>0</u>
29	<u>0</u>
30	<u>0</u>
31	<u>0</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.

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OPERATING DATA REPORT

DOCKET NO. 50-313
DATE 11/14/79
COMPLETED BY L.S. Bramlett
TELEPHONE 501/968-2519

OPERATING STATUS

1. Unit Name: Arkansas Nuclear One Unit 1
2. Reporting Period: October 1-31, 1979
3. Licensed Thermal Power (MWt): 2,568
4. Nameplate Rating (Gross MWe): 902.74
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:
None

Note:

9. Power Level To Which Restricted, If Any (Net MWe): None
10. Reasons For Restrictions, If Any: NA

	This Month	Yr.-to-Date	Cumulative
11. Hours In Reporting Period	<u>745.0</u>	<u>7296.0</u>	<u>42667.0</u>
12. Number Of Hours Reactor Was Critical	<u>457.2</u>	<u>3410.3</u>	<u>29120.4</u>
13. Reactor Reserve Shutdown Hours	<u>287.8</u>	<u>2257.5</u>	<u>4247.4</u>
14. Hours Generator On-Line	<u>456.8</u>	<u>3252.5</u>	<u>28466.2</u>
15. Unit Reserve Shutdown Hours	<u>0.0</u>	<u>591.5</u>	<u>796.7</u>
16. Gross Thermal Energy Generated (MWH)	<u>1160690.0</u>	<u>7970015.0</u>	<u>68776724.0</u>
17. Gross Electrical Energy Generated (MWH)	<u>391873.0</u>	<u>2646835.0</u>	<u>22887516.0</u>
18. Net Electrical Energy Generated (MWH)	<u>374828.0</u>	<u>2526664.0</u>	<u>21837210.0</u>
19. Unit Service Factor	<u>61.3</u>	<u>44.6</u>	<u>66.7</u>
20. Unit Availability Factor	<u>61.3</u>	<u>52.7</u>	<u>68.6</u>
21. Unit Capacity Factor (Using MDC Net)	<u>60.2</u>	<u>41.4</u>	<u>61.2</u>
22. Unit Capacity Factor (Using DER Net)	<u>59.2</u>	<u>40.7</u>	<u>60.2</u>
23. Unit Forced Outage Rate	<u>0.0</u>	<u>42.1</u>	<u>16.1</u>
24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each): <u>None</u>			

25. If Shut Down At End Of Report Period, Estimated Date of Startup: November 15, 1979
26. Units In Test Status (Prior to Commercial Operation):

INITIAL CRITICALITY
INITIAL ELECTRICITY
COMMERCIAL OPERATION

Forecast	Achieved
<u> </u>	<u> </u>
<u> </u>	<u> </u>
<u> </u>	<u> </u>

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REFUELING INFORMATIONDATE: October 1979

1. Name of facility. Arkansas Nuclear One - Unit 1
2. Scheduled date for next refueling shutdown. 11/01/1980
3. Scheduled date for restart following refueling. 01/01/1981
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 these 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. 10 CFR Section 50.59)?
Yes, Reload Report and associated proposed Technical Specification
Changes.
5. Scheduled date(s) for submitting proposed licensing action and supporting information. 09/01/1980
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.
Will reload 72 fresh fuel assemblies and operate for approximately
16 months.
7. The number of fuel assemblies (a) in the core and (b) in the spent fuel storage pool. a) 177 b) 176
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 590 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: March, 1988

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UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH October

DOCKET NO. 50-313
 UNIT NAME ANO - Unit 1
 DATE 11/14/79
 COMPLETED BY L. S. Biamlett
 TELEPHONE 501-968-2519

No.	Date	Type ¹	Duration (Hours)	Reason ²	Method of Shutting Down Reactor ³	Licensee Event Report #	System Code ⁴	Component Code ⁵	Cause & Corrective Action to Prevent Recurrence
79-05	791020	S	288.2	H	1	NA	HH RC	PUMPXX INSTRU	Commitment to NRC to provide vital power to P7B, Emergency Feedwater Pump and modify In-Core Temperature Detection Devices.

1
 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 (Explain)
 H-Other (Explain)

3
 Method:
 1-Manual
 2-Manual Scram.
 3-Automatic Scram.
 4-Other (Explain)

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

5
 Exhibit I - Same Source

(9/77)

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NRC MONTHLY OPERATING REPORT

OPERATING SUMMARY - OCTOBER, 1979

UNIT I

The unit operated at 100% reactor power for the first 19 days of the month. On October 20, the unit was taken off line for outage No. 79-05. This outage was scheduled for the provision of vital power to P7B Emergency Feedwater Pump and modification of In-Core Temperature Detection Devices. The unit remained in the shutdown mode for the remainder of the month.

ARKANSAS NUCLEAR ONE - UNIT I
Periodic Core Power Distribution Comparison

A Radial Power Distribution comparison was performed at 66.4 EFPD. The RMS (root mean square) of the differences between measured and predicted at the 52 instrumented fuel assembly locations was 0.029 which is well within the acceptance criterion of 0.073.