



ENTERGY

Entergy Operations, Inc.

Route 3 Box 137G
Russellville, AR 72801
Tel 501-964-8688

Jerry W. Yelverton

Vice President
Operations ANO

November 12, 1993

1CAN119301

U. S. Nuclear Regulatory Commission
Document Control Desk
Mail Station P1-137
Washington, DC 20555

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

Gentlemen:

The Arkansas Nuclear One - Unit 1 Monthly Operating Report (MOR) for October, 1993 is attached. This report is submitted in accordance with ANO-1 Technical Specification 6.12.2.3.

Very truly yours,

JWY/prg
Attachment:

9311160002 931031
PDR ADOCK 05J00313
R PDR

JES4

cc: Mr. James L. Milhoan
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 - ANO-1 & 2
Number 1, Nuclear Plant Road
Russellville, AR 72801

Mr. Roby Bevan
NRR Project Manager, Region IV/ANO-1
U. S. Nuclear Regulatory Commission
NRR Mail Stop 13-H-3
One White Flint North
11555 Rockville Pike
Rockville, Maryland 20852

Mr. Thomas W. Alexion
NRR Project Manager, Region IV/ANO-2
U. S. Nuclear Regulatory Commission
NRR Mail Stop 13-H-3
One White Flint North
11555 Rockville Pike
Rockville, Maryland 20852

OPERATING DATA REPORT

DOCKET NO: 50-313
 DATE: November 5, 1993
 COMPLETED BY: K. R. Hayes
 TELEPHONE: (501) 964-5535

OPERATING STATUS

1. Unit Name: Arkansas Nuclear One - Unit 1
2. Reporting Period: October 1-31, 1993
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: _____
9. Power Level To Which Restricted. If Any (Net MWe): None
10. Reasons For Restrictions. If Any: None

	<u>MONTH</u>	<u>YR-TO-DATE</u>	<u>CUMULATIVE</u>
11. Hours in Reporting Period	745.0	7296.0	165403.0
12. Number of Hours Reactor was Critical	253.4	6200.2	119199.2
13. Reactor Reserve Shutdown Hours	0.0	0.0	5044.0
14. Hours Generator On-Line	215.4	6129.0	116950.7
15. Unit Reserve Shutdown Hours	0.0	0.0	817.5
16. Gross Thermal Energy Generated (MWH)	429300	15371880	268509034
17. Gross Electrical Energy Generated (MWH)	142370	5200370	89578240
18. Net Electrical Energy Generated (MWH)	128450	4962613	85163214
19. Unit Service Factor	28.9	84.0	70.7
20. Unit Availability Factor	28.9	84.0	71.2
21. Unit Capacity Factor (Using MDC Net)	20.6	81.4	61.6
22. Unit Capacity Factor (Using DEC Net)	20.3	80.0	60.6
23. Unit Forced Outage Rate	26.7	2.2	11.3
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>08/06/74</u>
INITIAL ELECTRICITY	_____	<u>08/17/74</u>
COMMERCIAL OPERATION	_____	<u>12/19/74</u>

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO: 50-313
 UNIT: One
 DATE: November 5, 1993
 COMPLETED BY: K. R. Hayes
 TELEPHONE: (501) 964-5535

MONTH October, 1993

DAY AVERAGE DAILY POWER LEVEL
 (MWe-Net)

1	4
2	4
3	4
4	5
5	4
6	4
7	4
8	5
9	5
10	-7
11	-8
12	-7
13	-8
14	-20
15	-25
16	-26
17	-31
18	-32
19	-7
20	234
21	275
22	510
23	659
24	772
25	842
26	844
27	845
28	608
29	-14
30	-8
31	-7

AVGS: 173

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.

NRC MONTHLY OPERATING REPORT

OPERATING SUMMARY

OCTOBER 1993

UNIT ONE

Unit one began the month continuing the 1R11 refueling outage. The outage ended at 17:50 hours on the nineteenth, when the unit was tied to the grid. Power was increased to 20% and held for preparation of a planned turbine overspeed test. At 02:55 hours on the twentieth, the unit was taken off line and the turbine overspeed test was completed. On the twentieth at 04:10 hours the unit was tied back to the grid and the unit began increasing power to the first physics testing hold point. At 05:05 hours on the twenty-first, while increasing power to the 80% physics hold point, smoke was detected coming from the high pressure turbine. The unit power was decreased to 25%. The smoke was a result of insulation on the high pressure turbine being wetted with turbine lube oil. This wetting was a result of maintenance performed during the outage. Load was held at 25% until the affected insulation could be removed. At 20:20 hours on the twenty-first, the power escalation to 80% for physics testing was recommenced. The unit reached 80% power at 18:10 hours on the twenty-second and the physics testing was started. Physics testing was completed at 05:00 hours on the twenty-fourth, and the power escalation was commenced to full power. The unit reached full power at 13:36 hours on the twenty-fourth.

A unit shutdown was initiated at 15:56 hours on the twenty-eighth due to degradation of the "C" reactor coolant pump (RCP) seal. The turbine was manually tripped at 18:31 hours on the same day. The unit was off line for the remainder of the month for the "C" RCP seal replacement.

UNIT SHUTDOWNS AND POWER REDUCTIONS
REPORT FOR October, 1993

DOCKET NO.	50-313
UNIT NAME	ANO Unit 1
DATE	November 5, 1993
COMPLETED BY	K. R. Hayes
TELEPHONE	501-964-5535

<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>
93-07	931001	S	449.8	C	4	N/A	ZZ	ZZZZZZ	Unit off-line continuing 1R11 Refueling Outage.
93-08	931020	S	1.25	B	5	N/A	ZZ	ZZZZZZ	Post refueling outage turbine overspeed trip test.
93-09	931021	F	0	H	5	N/A	TA	ISL	Power reduction due to fire concerns with oil wetted HP turbine insulation.
93-10	931028	F	78.5	A	1	N/A	AB	SEAL	Unit taken off-line to repair Reactor Coolant Pump Seals on the C & D pumps.

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

DATE: October, 1993

REFUELING INFORMATION

1. Name of facility: Arkansas Nuclear One - Unit 1
2. Scheduled date for next refueling shutdown. March 24, 1995
3. Scheduled date for restart following refueling. May 19, 1995
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. 10 CFR Section 50.59)?
Unknown at this time.

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

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.

7. The number of fuel assemblies (a) in the core and (b) in the spent fuel storage pool. a) 177 b) 685
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.
DATE: 1996* (Loss of fullcore offload capability)

* This date changed due to the recovery of 59 storage spaces that had previously been considered unavailable due to physical interferences. The licensed or designed storage capacity did not change.