



ENTERGY

Entergy Operations, Inc.

1448 S.R. 333

Russellville, AR 72801

Tel 501 858-5000

May 15, 1995

1CAN059501

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 for April 1995 is attached.
This report is submitted in accordance with ANO-1 Technical Specification 6.12.2.3.

Very truly yours,

Dwight C. Mims
Director, Licensing

DCM/dwb

Attachments

180061

950519024-1 950430
PDR ADDCH 05000313
R PDR

cc: Mr. Leonard J. Callan
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
1448 S. R. 333
Russellville, AR 72801

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

OPERATING DATA REPORT

DOCKET NO: 50-313
 DATE: May 15, 1995
 COMPLETED BY: M. S. Whitt
 TELEPHONE: (501) 858-5560

OPERATING STATUS

1. Unit Name: Arkansas Nuclear One - Unit 1
2. Reporting Period: April 1-30
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): _____
10. Reasons For Restrictions. If Any: _____

	<u>MONTH</u>	<u>YR-TO-DATE</u>	<u>CUMULATIVE</u>
11. Hours in Reporting Period	719.0	2,879.0	178,506.0
12. Number of Hours Reactor was Critical	658.1	1,722.0	130,978.2
13. Reactor Reserve Shutdown Hours	0.0	0.0	5,044.0
14. Hours Generator On-Line	593.5	1,649.9	128,637.8
15. Unit Reserve Shutdown Hours	0.0	0.0	817.5
16. Gross Thermal Energy Generated (MWH)	1,418,834	3,392,967	297,546,856
17. Gross Electrical Energy Generated (MWH)	482,790	1,152,805	99,464,725
18. Net Electrical Energy Generated (MWH)	456,551	1,086,120	94,611,609
19. Unit Service Factor	82.5	57.3	72.1
20. Unit Availability Factor	82.5	57.3	72.5
21. Unit Capacity Factor (Using MDC Net)	76.0	45.1	63.4
22. Unit Capacity Factor (Using DER Net)	74.7	44.4	62.4
23. Unit Forced Outage Rate	15.1	6.0	10.6
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	_____	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: May 15, 1995
COMPLETED BY: M. S. Whitt
TELEPHONE: (501) 858-5560

MONTH April 1995

DAY AVERAGE DAILY POWER LEVEL
(MWe-Net)

1	-2
2	165
3	37
4	-33
5	87
6	584
7	810
8	848
9	847
10	847
11	847
12	836
13	848
14	848
15	848
16	847
17	847
18	847
19	847
20	84
21	-35
22	405
23	846
24	847
25	846
26	846
27	846
28	846
29	847
30	847
31	0

AVGS: 634

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

APRIL 1995

UNIT ONE

The unit began the month of April shutdown for 1R12 refueling outage.

The reactor achieved criticality at 1721 hours on the thirty-first of March. The turbine was subsequently placed on-line, which marked the completion of 1R12 Refueling Outage, at 1836 hours on the first. The turbine was taken off-line at 1203 hours on the second to perform the Main Turbine Overspeed Trip Test. Following the completion of the turbine test at 1351 hours on the second, the turbine was placed on-line. At 0235 hours on the third, the turbine was taken off-line so a leaking O-ring in the electro-hydraulic oil system could be replaced. Following the replacement of the O-ring at 1258 hours on the third, the turbine was placed on-line. At 1733 hours on the third, a manual reactor / turbine trip was initiated due to an internal software coding error in the feedwater pump turbine control system. At 2303 hours on the fourth, the reactor achieved criticality. The turbine was placed on line at 1342 hours on the fifth. At 1354 hours on the seventh, the unit achieved 100% power for the first time following 1R12. At 1259 hours on the twelfth, a power reduction to 80% was initiated so repairs to the 'B' main feedwater pump turbine control oil flow path pressure transducer could be completed. Following the completion of the transducer repairs at 1615 hours on that same day, the unit returned to 100% power. At 0313 hours on the twentieth, an automatic reactor / turbine trip was initiated by a generator lockout which was caused by a negative sequence relay actuation. At 1033 hours on the twenty-first, the reactor achieved criticality. The turbine was placed on line at 0550 hours on the twenty-second. At 2031 hours on the twenty-second, the unit achieved 100% power.

The unit operated the remainder of the month at 100% power.

**UNIT SHUTDOWNS AND POWER REDUCTIONS
REPORT FOR APRIL 1995**

DOCKET NO.	50-313
UNIT NAME	ANO Unit 1
DATE	May 15, 1995
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>
95-02	950401	S	18.6	C	4	N/A	ZZ	ZZZZZZ	Refueling Outage 1R12
95-03	950402	S	1.8	B	5	N/A	TA	ZZZZZZ	Unit taken off line to perform Main Turbine Overspeed Trip Test.
95-04	950403	F	10.4	A	5	N/A	TG	BLK	Unit taken off line to replace leaking O-ring in electro-hydraulic oil system.
95-05	950403	F	44.2	A	2	1-95-004-00	JK	ZZZZZZ	A manual reactor / turbine trip was initiated due to an internal software coding error in the feedwater pump turbine control system.
95-06	950420	F	50.6	A	3	1-95-005-00	TB	XCT	An automatic reactor / turbine trip was initiated due to short to ground of main generator current transformer connections.

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

Reporting Period: April 1995

REFUELING INFORMATION

1. Name of facility: Arkansas Nuclear One - Unit 1
2. Scheduled date for next refueling shutdown: September 20, 1996
3. Scheduled date for restart following refueling: November 4, 1996
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:

NA
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 and (b) in the spent fuel storage pool:

a) 177 b) 745
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 full core off-load capability)