OPERATING DATA REPORT

DOCKET NO. 50-313
DATE 9/23/82
COMPLETED BY A. J. Gertsch
TELEPHONE 501-964-3155

OPERATING STATUS

1. Unit Name: Arkansas Nuclear One - Unit 1
2. Reporting Period: August 1-31, 1982
3. Licensed Thermal Power (MWt): 2568
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:

Notes

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

	This Month	Yr.-to-Date	Cumulative
11. Hours In Reporting Period	744.0	5831.0	67506.0
12. Number Of Hours Reactor Was Critical	426.3	4100.7	46348.2
13. Reactor Reserve Shutdown Hours	0.0	0.0	5044.0
14. Hours Generator On-Line	406.8	4040.3	45424.1
15. Unit Reserve Shutdown Hours	0.0	0.0	817.5
16. Gross Thermal Energy Generated (MWH)	901905.0	8768639.0	108298845.0
17. Gross Electrical Energy Generated (MWH)	285450.0	2894650.0	35731406.0
18. Net Electrical Energy Generated (MWH)	269973.0	2745482.0	34061883.0
19. Unit Service Factor	54.7	69.3	67.3
20. Unit Availability Factor	54.7	69.3	68.5
21. Unit Capacity Factor (Using MDC Net)	43.4	56.3	60.4
22. Unit Capacity Factor (Using DER Net)	42.7	55.4	59.4
23. Unit Forced Outage Rate	45.3	15.3	16.0

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		
INITIAL ELECTRICITY		
COMMERCIAL OPERATION		

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-313
UNIT 1
DATE 9/22/82
COMPLETED BY A. J. Gertsch
TELEPHONE 501-964-3155

MONTH August 1982

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	809	17	0
2	807	18	47
3	807	19	591
4	804	20	750
5	187	21	790
6	0	22	637
7	0	23	89
8	0	24	272
9	0	25	337
10	0	26	681
11	0	27	802
12	0	28	804
13	0	29	697
14	0	30	672
15	0	31	665
16	0		

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.

(9/77)

NRC MONTHLY OPERATING REPORT
OPERATING SUMMARY - AUGUST, 1982
UNIT ONE

Unit One began the month of August at 99.82% full power. At 0602 hours on August 5, the reactor/turbine tripped on a RPS anticipatory trip based upon a false indication of loss of both main feedwater pumps. The trip occurred as reactor power was being reduced for recovery of a dropped control rod. The RPS sensed failure of both main feedwater pumps as the "B" pump was tripped off line. Checks of the main feedwater pump anticipatory trip system have not identified the cause of the trip. On August 18, as the unit was returning to power, the reactor was manually tripped from 13% full power following auto actuation of SLBIC. Failure of the #3 governor valve limiter circuit prevented the valve from fully closing causing header pressure to decrease uncontrollably. Repairs to the governor valve were effected and Unit 1 returned to 100% full power August 21. On August 22, Unit 1 tripped on high reactor power following a malfunction of the main turbine overspeed protection circuit. Header pressure oscillations induced by the erroneous speed condition caused the ICS to overcorrect reactor power. The Unit tripped on the high power setpoint of "B" and "D" RPS channels. On August 23, Unit 1 returned to power operations and achieved 100% full power August 27. August 29, reactor power was reduced to approximately 91% full power following failure of the expansion joint in the extraction line to the E-4A feedwater heater. Unit 1 ended August at 92.34% full power.

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH AUGUST

DOCKET NO. 50-313
UNIT NAME ANO-UNIT 1
DATE Sept. 8 1982
COMPLETED BY A.J. Gertsch
TELEPHONE 501-964-3155

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
82-04	820805	1	320.1	A	3	NA	IA	INSTRU	Malfunction of the main feedwater anticipatory trip system during a power runback for dropped rod recovery caused the unit to trip on false indication of loss of both main feedwater pumps.
82-05	820822	1	17.1	A	3	NA	HA	TURBIN	ICS overcorrection to header pressure oscillations caused by a malfunction of the main turbine overspeed protection circuit initiated a RPS trip for high reactor power.

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-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

(9/77)

UNIT SHUTDOWNS AND POWER REDUCTIONS

INSTRUCTIONS

This report should describe all plant shutdowns during the report period. In addition, it should be the source of explanation of significant dips in average power levels. Each significant reduction in power level (greater than 20% reduction in average daily power level for the preceding 24 hours) should be noted, even though the unit may not have been shut down completely[1]. For such reductions in power level, the duration should be listed as zero, the method of reduction should be listed as 4 (Other), and the Cause and Corrective Action to Prevent Recurrence column should explain. The Cause and Corrective Action to Prevent Recurrence column should be used to provide any needed explanation to fully describe the circumstances of the outage or power reduction.

NUMBER. This column should indicate the sequential number assigned to each shutdown or significant reduction in power for that calendar year. When a shutdown or significant power reduction begins in one report period and ends in another, an entry should be made for both report periods to be sure all shutdowns or significant power reductions are reported. Until a unit has achieved its first power generation, no number should be assigned to each entry.

DATE. This column should indicate the date of the start of each shutdown or significant power reduction. Report as year, month, and day. August 14, 1977 would be reported as 770814. When a shutdown or significant power reduction begins in one report period and ends in another, an entry should be made for both report periods to be sure all shutdowns or significant power reductions are reported.

TYPE. Use "F" or "S" to indicate either "Forced" or "Scheduled," respectively, for each shutdown or significant power reduction. Forced shutdowns include those required to be initiated by no later than the weekend following discovery of an off-normal condition. It is recognized that some judgment is required in categorizing shutdowns in this way. In general, a forced shutdown is one that would not have been completed in the absence of the condition for which corrective action was taken.

DURATION. Self-explanatory. When a shutdown extends beyond the end of a report period, count only the time to the end of the report period and pick up the ensuing down time in the following report periods. Report duration of outages rounded to the nearest tenth of an hour to facilitate summation. The sum of the total outage hours plus the hours the generator was on line should equal the gross hours in the reporting period.

REASON. Categorize by letter designation in accordance with the table appearing on the report form. If category H must be used, supply brief comments.

METHOD OF SHUTTING DOWN THE REACTOR OR REDUCING POWER. Categorize by number designation in accordance with the table appearing on the report form. If category 4 must be used, supply brief comments.

LICENSEE EVENT REPORT #. Reference the applicable reportable occurrence pertaining to the outage or power reduction. Enter the first four parts (event year, sequential report number, occurrence code and report type) of the five part designation as described in Item 17 of Instructions for Preparation of Data Entry Sheets for Licensee Event Report (LER) File (NUREG-0161). This information may not be immediately evident for all such shutdowns, of course, since further investigation may be required to ascertain whether or not a reportable occurrence was involved.) If the outage or power reduction will not result in a reportable occurrence, the positive indication of this lack of correlation should be noted as not applicable (N/A).

SYSTEM CODE. The system in which the outage or power reduction originated should be noted by the two digit code of Exhibit G - Instructions for Preparation of Data Entry Sheets for Licensee Event Report (LER) File (NUREG-0161).

Systems that do not fit any existing code should be designated XX. The code ZZ should be used for those events where a system is not applicable.

COMPONENT CODE. Select the most appropriate component from Exhibit I - Instructions for Preparation of Data Entry Sheets for Licensee Event Report (LER) File (NUREG-0161), using the following critieria:

A. If a component failed, use the component directly involved.

B. If not a component failure, use the related component, e.g., wrong valve operated through error; list valve as component.

C. If a chain of failures occurs, the first component to malfunction should be listed. The sequence of events, including the other components which fail, should be described under the Cause and Corrective Action to Prevent Recurrence column.

Components that do not fit any existing code should be designated XXXXXX. The code ZZZZZZ should be used for events where a component designation is not applicable.

CAUSE & CORRECTIVE ACTION TO PREVENT RECURRENCE. Use the column in a narrative fashion to amplify or explain the circumstances of the shutdown or power reduction. The column should include the specific cause for each shutdown or significant power reduction and the immediate and contemplated long term corrective action taken, if appropriate. This column should also be used for a description of the major safety-related corrective maintenance performed during the outage or power reduction including an identification of the critical path activity and a report of any single release of radioactivity or single radiation exposure specifically associated with the outage which accounts for more than 10 percent of the allowable annual values.

For long textual reports continue narrative on separate paper and reference the shutdown or power reduction for this narrative.

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[1]Note that this differs from the Edison Electric Institute (EEI) definitions of "Forced Partial Outage" and "Scheduled Partial Outage." For these terms, EEI uses a change of 30 MW as the break point. For larger power reactors, 30 MW is too small a change to warrant explanation.

REFUELING INFORMATION

DATE: August 1982

1. Name of facility. Arkansas Nuclear One - Unit 1

2. Scheduled date for next refueling shutdown. November 26, 1982

3. Scheduled date for restart following refueling. February 15, 1983

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 Specification changes.

5. Scheduled date(s) for submitting proposed licensing action and supporting information. November 1, 1982

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, four of which will be high burn-up test 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) 244

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 589 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: 1986