

Docket Files

AUG 01 1980

Docket No. 50-368

DISTRIBUTION

Docket File	ACRS(16)
NRC PDR	CMiles
L PDR	RDiggs
TERA	HDenton
NSIC	JHeltemes
ORB#3 RDG	Gray File+4
NRR RDG	
DEisenhut	
RPurple	
TNovak	
RTedesco	
GLainas	
JOlshinski	
PKreutzer	
RMartin	
OELD	
OI&E(5)	
BJones(4)	
JWetmore	

Mr. William Cavanaugh, III
 Vice President, Generation
 and Construction
 Arkansas Power & Light Company
 P. O. Box 551
 Little Rock, Arkansas 72203

Dear Mr. Cavanaugh:

The Nuclear Regulatory Commission has issued the enclosed Amendment No. 13 to Facility Operating License No. NPF-6 for the Arkansas Power and Light Company for the Arkansas Nuclear One, Unit 2 plant. The amendment consists of changes to the Technical Specifications in response to your application dated July 21, 1980.

The amendment revises Appendix A Technical Specifications by changing the required date for the implementation of further containment radiation monitoring instrumentation to be consistent with the staff's requirements resulting from the TMI-2 Lessons Learned studies.

Copies of the Safety Evaluation and the Notice of Issuance are also enclosed.

Sincerely,

Robert A. Clark, Chief
 Operating Reactors Branch No. 3
 Division of Licensing

Enclosures:

1. Amendment No. 13 to Facility Operating License No. NPF-6
2. Safety Evaluation
3. Notice of Issuance

cc w/enclosures:
 See next page

8008140 212

60

CP

OFFICE	ORB#3/DL	ORB#3/DL	LGR/DL	OELD	ORB#3/DL	A/DOR:DL
SURNAME	PKreutzer	RMartin/bjd	JWetmore		RAE	TNovak
DATE	7/30/80	7/30/80	7/30/80	7/30/80	7/30/80	7/31/80



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555

July 31, 1980

Docket No. 50-368

Docketing and Service Section
Office of the Secretary of the Commission

SUBJECT: ARKANSAS NUCLEAR ONE, UNIT 2

DISTRIBUTION:
Docket File
NRR RDG
ORB#3 RDG
PKreutzer

Two signed originals of the Federal Register Notice identified below are enclosed for your transmittal to the Office of the Federal Register for publication. Additional conformed copies (12) of the Notice are enclosed for your use.

- Notice of Receipt of Application for Construction Permit(s) and Operating License(s).
- Notice of Receipt of Partial Application for Construction Permit(s) and Facility License(s): Time for Submission of Views on Antitrust Matters.
- Notice of Availability of Applicant's Environmental Report.
- Notice of Proposed Issuance of Amendment to Facility Operating License.
- Notice of Receipt of Application for Facility License(s); Notice of Availability of Applicant's Environmental Report; and Notice of Consideration of Issuance of Facility License(s) and Notice of Opportunity for Hearing.
- Notice of Availability of NRC Draft/Final Environmental Statement.
- Notice of Limited Work Authorization.
- Notice of Availability of Safety Evaluation Report.
- Notice of Issuance of Construction Permit(s).
- Notice of Issuance of Facility Operating License(s) or Amendment(s).
- Other: Referenced documents have been provided PDR

Division of Licensing
Office of Nuclear Reactor Regulation

Enclosure:
As Stated

OFFICE →	ORB#3/DL <i>PK</i>					
SURNAME →	PKreutzer					
DATE →	8/1/80					



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

Docket File

July 31, 1980

Docket No. 50-368

Mr. William Cavanaugh, III
Vice President, Generation
and Construction
Arkansas Power & Light Company
P. O. Box 551
Little Rock, Arkansas 72203

Dear Mr. Cavanaugh:

The Nuclear Regulatory Commission has issued the enclosed Amendment No. 13 to Facility Operating License No. NPF-6 for the Arkansas Power and Light Company for the Arkansas Nuclear One, Unit 2 plant. The amendment consists of changes to the Technical Specifications in response to your application dated July 21, 1980.

The amendment revises Appendix A Technical Specifications by changing the required date for the implementation of further containment radiation monitoring instrumentation to be consistent with the staff's requirements resulting from the TMI-2 Lessons Learned studies.

Copies of the Safety Evaluation and the Notice of Issuance are also enclosed.

Sincerely,

A handwritten signature in cursive script that reads "Robert A. Clark".

Robert A. Clark, Chief
Operating Reactors Branch No. 3
Division of Licensing

Enclosures:

1. Amendment No. 13 to
Facility Operating
License No. NPF-6
2. Safety Evaluation
3. Notice of Issuance

cc w/enclosures:
See next page

8008140 215

Arkansas Power & Light Company

cc:

Mr. David C. Trimble
Manager, Licensing
Arkansas Power & Light Company
P. O. Box 551
Little Rock, Arkansas 72203

Mr. James P. O'Hanlon
General Manager
Arkansas Nuclear One
P. O. Box 608
Russellville, Arkansas 72801

Mr. William Johnson
U. S. Nuclear Regulatory Commission
P. O. Box 2090
Russellville, Arkansas 72801

Mr. Robert B. Borsum
Babcock & Wilcox
Nuclear Power Generation Division
Suite 420, 7735 Old Georgetown Road
Bethesda, Maryland 20014

Troy B. Conner, Jr., Esq.
Conner, Moore & Corber
1747 Pennsylvania Avenue, N.W.
Washington, D.C. 20006

Arkansas Polytechnic College
Russellville, Arkansas 72801

Honorable Ermil Grant
Acting County Judge of Pope County
Pope County Courthouse
Russellville, Arkansas 72801

Mr. Paul F. Levy, Director
Arkansas Department of Energy
3000 Kavanaugh
Little Rock, Arkansas 72205

Mr. Charles B. Brinkman
Manager - Washington Nuclear
Operations
C-E Power Systems
4853 Cordell Avenue, Suite A-1
Bethesda, Maryland 20014

Director, Technical Assessment
Division
Office of Radiation Programs
(AW-459)
U. S. Environmental Protection Agency
Crystal Mall #2
Arlington, Virginia 20460

U. S. Environmental Protection Agency
Region VI Office
ATTN: EIS COORDINATOR
1201 Elm Street
First International Building
Dallas, Texas 75270

Director, Bureau of Environmental
Health Services
4815 West Markham Street
Little Rock, Arkansas 72201



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

ARKANSAS POWER AND LIGHT COMPANY

DOCKET NO. 50-368

ARKANSAS NUCLEAR ONE, UNIT 2

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 13
License No. NPF-6

1. The Nuclear Regulatory Commission (the Commission) has found that:
 - A. The application for amendment by Arkansas Power and Light Company (the licensee) dated July 21, 1980, complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act) and the Commission's rules and regulations set forth in 10 CFR Chapter I;
 - B. The facility will operate in conformity with the application, the provisions of the Act, and the rules and regulations of the Commission;
 - C. There is reasonable assurance (i) that the activities authorized by this amendment can be conducted without endangering the health and safety of the public, and (ii) that such activities will be conducted in compliance with the Commission's regulations;
 - D. The issuance of this amendment will not be inimical to the common defense and security or to the health and safety of the public; and
 - E. The issuance of this amendment is in accordance with 10 CFR Part 51 of the Commission's regulations and all applicable requirements have been satisfied.

2. Accordingly, the license is amended by changes to the Technical Specifications as indicated in the attachment to this license amendment, and paragraph 2.C.(2) of Facility Operating License No. NPF-6 is hereby amended as follows. The second paragraph of 2.C.(2) has not changed.

(2) Technical Specifications

The Technical Specifications contained in Appendices A and B, as revised through Amendment No. 13, are hereby incorporated in the license. The licensee shall operate the facility in accordance with the Technical Specifications.

3. This license amendment is effective as of the date of its issuance.

FOR THE NUCLEAR REGULATORY COMMISSION


Robert A. Clark, Chief
Operating Reactors Branch #3
Division of Licensing

Attachment:
Changes to the
Technical Specifications

Date of Issuance: July 31, 1980

ATTACHMENT TO LICENSE AMENDMENT NO. 13

FACILITY OPERATING LICENSE NO. NPF-6

DOCKET NO. 50-368

Replace the following pages of the Appendix "A" Technical Specifications with the enclosed pages. The revised pages are identified by Amendment number and contain vertical lines indicating the area of change. The corresponding overleaf pages are also provided to maintain document completeness.

Pages

3/4 3-40 (changed)

3/4 3-41 (changed)

INSTRUMENTATION

CHLORINE DETECTION SYSTEMS

LIMITING CONDITION FOR OPERATION

3.3.3.7 Two independent chlorine detection systems, with their alarm/trip setpoints adjusted to actuate at a chlorine concentration of \leq 5 ppm, shall be OPERABLE.

APPLICABILITY: MODES 1, 2, 3 and 4.

ACTION:

- a. With one chlorine detection system inoperable, restore the inoperable detection system to OPERABLE status within 7 days or within the next 6 hours initiate and maintain operation of the control room emergency ventilation system in the recirculation mode of operation.
- b. With no chlorine detection system OPERABLE, within 1 hour initiate and maintain operation of the control room emergency ventilation system in the recirculation mode of operation.
- c. The provisions of Specification 3.0.4 are not applicable.

SURVEILLANCE REQUIREMENTS

4.3.3.7 Each chlorine detection system shall be demonstrated OPERABLE by performance of a CHANNEL CHECK at least once per 12 hours, a CHANNEL FUNCTIONAL TEST at least once per 31 days and a CHANNEL CALIBRATION at least once per 18 months.

TABLE 4.3-10

POST-ACCIDENT MONITORING INSTRUMENTATION SURVEILLANCE REQUIREMENTS

<u>INSTRUMENT</u>	<u>CHANNEL CHECK</u>	<u>CHANNEL CALIBRATION</u>
1. Containment Pressure	M	R
2. Containment Radiation Monitors*	M	R
3. Pressurizer Pressure	M	R
4. Pressurizer Water Level	M	R
5. Steam Generator Pressure	M	R
6. Steam Generator Water Level	M	R
7. Refueling Water Tank Water Level	M	R
8. Containment Sump Water Level	M	R

*This requirement may be satisfied by the use of portable radiation monitors, and by substituting a source check for the channel check and by substituting an instrument calibration for the channel calibration until such time as the Category B portions of Item 2.1.8.B of NUREG 0578 must be implemented for ANO-2.

TABLE 3.3-10
POST-ACCIDENT MONITORING INSTRUMENTATION

<u>INSTRUMENT</u>	<u>MINIMUM CHANNELS OPERABLE</u>
1. Containment Pressure	2
2. Containment Radiation Monitors*	2
3. Pressurizer Pressure	2
4. Pressurizer Water Level	2
5. Steam Generator Pressure	2/steam generator
6. Steam Generator Water Level	2/steam generator
7. Refueling Water Tank Water Level	2
8. Containment Sump Water Level	2

*This requirement may be satisfied by the use of portable radiation monitors equivalent in number to the minimum channels required OPERABLE until such time as the Category B portions of Item 2.1.8.B of NUREG 0578 must be implemented for ANO-2.

INSTRUMENTATION

POST-ACCIDENT INSTRUMENTATION

LIMITING CONDITION FOR OPERATION

3.3.3.6 The post-accident monitoring instrumentation channels shown in Table 3.3-10 shall be OPERABLE.

APPLICABILITY: MODES 1, 2 and 3.

ACTION:

- a. With the number of OPERABLE post-accident monitoring channels less than required by Table 3.3-10, either restore the inoperable channel to OPERABLE status within 30 days, or be in HOT SHUTDOWN within the next 12 hours.
- b. The provisions of Specification 3.0.4 are not applicable.

SURVEILLANCE REQUIREMENTS

4.3.3.6 Each post-accident monitoring instrumentation channel shall be demonstrated OPERABLE by performance of the CHANNEL CHECK and CHANNEL CALIBRATION operations at the frequencies shown in Table 4.3-10.



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION

SUPPORTING AMENDMENT NO. 13

ARKANSAS POWER AND LIGHT COMPANY

ARKANSAS NUCLEAR ONE, UNIT 2

DOCKET NO. 50-368

Introduction

By letter dated July 21, 1980, the Arkansas Power and Light Company (the licensee) proposed changes to the Arkansas Nuclear One, Unit 2 (ANO-2) Technical Specifications. The licensee's proposed change would change the July 31, 1980 Technical Specification date required for the completion of testing, qualification and implementation of post accident containment radiation monitors. The chronology of events regarding this matter and our evaluation of the licensee's proposed change to the Technical Specifications is provided below.

Discussion

By letters dated June 23, 1978 and August 31, 1978, the licensee informed us of problems it was encountering in environmentally qualifying Post Accident Containment Radiation Monitors for ANO-2. The ANO-2 monitors were the first monitors proposed for ANO-2 to detect radioactivity within containment up to 10^7 Roentgens per hour. As such, these radiation monitors had to be specifically designed and qualified.

By letters dated August 31, 1978 and September 14, 1978, the licensee proposed an interim method for determining post accident radiation levels in containment while testing and qualification of the radiation monitors continued.

The licensee proposed for an interim period of time to rely on a procedure which would monitor radiation levels inside containment by using portable radiation monitors at selected locations outside containment. Also, the licensee provided details regarding the calculational methods used in determining the locations and calibrational requirements for the portable counters. Procedures were provided which would be followed in measuring radiation for post accident conditions.

By letter dated October 10, 1979, the licensee proposed changes to the ANO-2 Technical Specifications. In our discussions with the licensee regarding these matters, an effective end date for use of interim method

was determined to be July 31, 1980. This July 31, 1980 date was projected to be the date by which the then scheduled first refueling outage would be completed at ANO-2. However, due to problems encountered during the ANO-2 startup, the current schedule now calls for the ANO-2 first refueling outage to be March, 1981.

Our review and basis for acceptance of the licensee's interim method described above is provided in our Safety Evaluation supporting Amendment No. 7 to Facility Operating License NPF-6. Amendment No. 7 was issued on December 1, 1978.

Evaluation

When Amendment No. 7 was issued on December 1, 1978 it was not expected that the first refueling outage would occur beyond the July 31, 1980 date nor were the implementation requirements of NUREG-0578 in effect.

We reaffirm our conclusions set forth in Amendment No. 7 to License NPF-6 regarding the acceptability of the use of portable radiation monitors and find that extending the required date for the implementation of the high range containment radiation monitors to be consistent with the NUREG-0578 requirements as discussed in item 2.1.8.b of the letter of Mr. H. R. Denton, NRC, dated October 30, 1979 to all power reactor licensees is acceptable.

Environmental Consideration

We have determined that the amendment does not authorize a change in effluent types or total amounts nor an increase in power level and will not result in any significant environmental impact. Having made this determination, we have further concluded that the amendment involves an action which is insignificant from the standpoint of environmental impact and, pursuant to 10 CFR §51.5(d)(4), that an environmental impact statement or negative declaration and environmental impact appraisal need not be prepared in connection with the issuance of this amendment.

Conclusion

We have concluded, based on the considerations discussed above, that:

- (1) because the amendment does not involve a significant increase in the probability or consequences of accidents previously considered and does not involve a significant decrease in a safety margin, the amendment does not involve a significant hazards consideration,
- (2) there is reasonable assurance that the health and safety

of the public will not be endangered by operation in the proposed manner, and (3) such activities will be conducted in compliance with the Commission's regulations and the issuance of this amendment will not be inimical to the common defense and security or to the health and safety of the public.

Date of Issuance: July 31, 1980

UNITED STATES NUCLEAR REGULATORY COMMISSIONDOCKET NO. 50-368ARKANSAS POWER AND LIGHT COMPANYARKANSAS NUCLEAR ONE, UNIT 2NOTICE OF ISSUANCE OF AMENDMENT TO FACILITY OPERATING LICENSE

The U. S. Nuclear Regulatory Commission (the Commission) has issued Amendment No. 13 to Facility Operating License No. NPF-6 issued to Arkansas Power and Light Company for Operation of Arkansas Nuclear One, Unit 2 (the facility) located at the licensee's site in Pope County, Arkansas. The amended license is effective as of its date of issuance.

The amendment changes the required date for the implementation of further containment radiation monitoring instrumentation to be consistent with the staff's requirements as set forth in NUREG-0578, "TMI-2 Lessons Learned Task Force Status Report and Short Term Recommendations", and the letter of Mr. H. Denton, Director, NRR, dated October 30, 1979 to all power reactor licensees.

The application for the amendment complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act), and the Commission's rules and regulations. The Commission has made appropriate findings as required by the Act and the Commission's rules and regulations in 10 CFR Chapter I, which are set forth in the license amendment. Prior public notice of this amendment was not required since the amendment does not involve a significant hazards consideration.

The Commission has determined that the issuance of this amendment will not result in any significant environmental impact and that pursuant to 10 CFR Section 51.5(d)(4) an environmental impact statement or negative declaration and environmental impact appraisal need not be prepared in connection with the issuance of this amendment.

For further details with respect to this action, see (1) the application for amendment dated July 21, 1980, (2) Amendment No. 13 to Facility Operating License No. NPF-6, and (3) the Commission's related Safety Evaluation. These items are available for public inspection at the Commission's Public Document Room at 1717 H Street, N.W., Washington, D.C. 20555 and the Arkansas Polytechnic College, Russellville, Arkansas 72801. A copy of items (1) and (2) may be obtained upon request addressed to the U. S. Nuclear Regulatory Commission, Washington, D.C. 20555, Attention: Director, Division of Licensing.

Dated at Bethesda, Maryland this 31st day of July, 1980.

FOR THE NUCLEAR REGULATORY COMMISSION



Robert A. Clark, Chief
Operating Reactors Branch #3
Division of Licensing