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SEP 12 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. 14 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 September 11, 1980.

The amendment revises Appendix A Technical Specifications to identify the water flow rate requirements for the operation mode allowed by Technical Specification 3.6.2.3 wherein one of the containment cooling units in one of the containment cooling system loops may be out of service. During our review of your proposed amendments we found that certain modifications were necessary to meet our requirements. Your staff has agreed to these modifications and they have been incorporated in this amendment.

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

Sincerely,
 Original signed by:

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

Enclosures:

1. Amendment No. 14 to Facility Operating License No. NPF-6
2. Safety Evaluation
3. Notice of Issuance

cc w/encls:
 See next page

*SEE ATTACHED YELLOW FOR PREVIOUS CONCURRENCES

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OFFICE	DL:ORB#3					
SURNAME	RAClark	B009250.126				
DATE	9/12/80					

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. 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 September 11, 1980.

The amendment revises Appendix A Technical Specifications by specifying in further detail the service water flow rate requirements for each of the four containment cooling units.

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

Sincerely,

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

Enclosures:

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cc w/encls:
See next page

Concur in license amendment, letter and Federal Register notice subject to changes noted on each including Appendix A Technical Specifications

OFFICE >	DL:ORB#3 <i>PK</i>	DL:ORB#3 <i>RMartin</i>	DL:ORB#3 <i>RAClark</i>	DL:OR <i>Novak</i>	OELD <i>MUR</i>
SURNAME >	PKneutzer	RMartin	RAClark	TNovak	M.Rothschild
DATE >	9/11/80	9/11/80	9/11/80	9/12/80	9/12/80



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555
September 12, 1980

DISTRIBUTION:
Docket File
ORB#3 Rdg
PMKreutzer

Docket No. 50-368

Docketing and Service Section
Office of the Secretary of the Commission

SUBJECT: ARKANSAS NUCLEAR ONE, UNIT 2

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 () 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: Amendment No. 14
Referenced documents have been provided PDR

Division of Licensing, ORB#3
Office of Nuclear Reactor Regulation

Enclosure:
As Stated

OFFICE	ORB#3:DL					
SURNAME	PMKreutzer/DL					
DATE	9/16/80					



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555
September 12, 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. 14 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 September 11, 1980.

The amendment revises Appendix A Technical Specifications to identify the water flow rate requirements for the operation mode allowed by Technical Specification 3.6.2.3 wherein one of the containment cooling units in one of the containment cooling system loops may be out of service. During our review of your proposed amendments we found that certain modifications were necessary to meet our requirements. Your staff has agreed to these modifications and they have been incorporated in this amendment.

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

Sincerely,

A handwritten signature in cursive script, appearing to read "Robert A. Clark".

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

Enclosures:

1. Amendment No. 14 to Facility Operating License No. NPF-6
2. Safety Evaluation
3. Notice of Issuance

cc w/encls:
See next page

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

Nick Reynolds
c/o DeBevoise & Liberman
1200 Seventeenth St. N.W.
Washington, D.C. 20036

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

cc w/enclosure(s) and incoming
dtd.: 9/11/80

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. 14
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 September 11, 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.

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(2) Technical Specifications

The Technical Specifications contained in Appendices A and B, as revised through Amendment No. 14, 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: September 12, 1980

ATTACHMENT TO LICENSE AMENDMENT NO. 14

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 6-15 (changed)

3/4 6-16 (unchanged)

CONTAINMENT SYSTEMS

SURVEILLANCE REQUIREMENTS (Continued)

1. Starting (unless already operating) each cooling unit from the control room.
 2. Verifying that each cooling unit operates for at least 15 minutes.
 3. Verifying a service water flow rate of ≥ 2500 gpm to each group containing two operational cooling units.
 4. Verifying a service water flow rate of ≥ 1250 gpm to any group containing one operational cooling unit.
- b. At least once per 18 months by verifying that each cooling unit starts automatically on a CCAS test signal.

CONTAINMENT SYSTEMS

3/4.6.3 CONTAINMENT ISOLATION VALVES

LIMITING CONDITION FOR OPERATION

3.6.3.1 The containment isolation valves specified in Table 3.6-1 shall be OPERABLE with isolation times as shown in Table 3.6-1.

APPLICABILITY: MODES 1, 2, 3 and 4.

ACTION:

With one or more of the isolation valve(s) specified in Table 3.6-1 inoperable, maintain at least one isolation valve OPERABLE in each affected penetration that is open and either:

- a. Restore the inoperable valve(s) to OPERABLE status within 4 hours, or
- b. Isolate each affected penetration within 4 hours by use of at least one deactivated automatic valve secured in the isolation position, or
- c. Isolate the affected penetration within 4 hours by use of at least one closed manual valve or blind flange; or
- d. Be in at least HOT STANDBY within the next 6 hours and in COLD SHUTDOWN within the following 30 hours.

SURVEILLANCE REQUIREMENTS

4.6.3.1.1 The isolation valves specified in Table 3.6-1 shall be demonstrated OPERABLE prior to returning the valve to service after maintenance, repair or replacement work is performed on the valve or its associated actuator, control or power circuit by performance of a cycling test and verification of isolation time.



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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION

SUPPORTING AMENDMENT NO.

ARKANSAS POWER AND LIGHT COMPANY

ARKANSAS NUCLEAR ONE, UNIT 2

DOCKET NO. 50-368

Introduction

By letter dated September 11, 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 specify in further detail the service water flow rate requirements for each of the four containment cooling units. The chronology of events regarding this matter and our evaluation of the licensee's proposed change to the Technical Specifications is provided below.

Discussion

The Engineered Safety Features (ESF) for the ANO-2 plant include the containment cooling system (CCS) and the containment spray system (CSS). The safety related purpose of these systems is to reduce the temperature and pressure inside the containment in the event of a loss of coolant accident (LOCA) or main steam line break. The CCS includes four containment atmosphere air cooler units. The cooling coils of these units remove energy directly from the vapor region of the containment which results in a reduced pressure and temperature within the containment. The heat loads thus picked up by the CCS cooling coils are transferred to the Service Water System (SWS).

The CCS consists of two loops, each loop having two containment cooling units (CCU). Each loop is cooled by one service water system line. The Technical Specifications include surveillance requirements on the flowrate which must be capable of being provided to each loop. The Technical Specifications do not address the flow rate requirements for single containment cooling units within the loops.

Evaluation

By letter dated September 11, 1980 the licensee informed us of problems it was encountering with regard to the adequacy of the Surveillance Requirements of Specification 4.6.2.3 in assuring that the operability requirements of specification 3.6.2.3 are met.

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Specification 3.6.2.3 allows one of the two CCS loops to contain only one serviceable CCU. This allows one CCU to be out of service as is currently the case in the ANO-2 plant. However, the Surveillance Requirements of Specification 4.6.2.3.a.3 requires verification of a service water flow rate of greater than or equal to 2500 gallons per minute to each loop of containment cooling units and does not identify the flow rate requirements for the operation mode allowed by Specification 3.6.2.3 wherein one of the CCU's in one of the loops may be out of service.

The four CCU's are of the same design with each having the same heat removal capability. The licensee has verified through a review of design documents that a service water flow rate of greater than or equal to 1250 gallons per minute (i.e. one half of the 2500 gpm required for two CCU's in a loop) is adequate to ensure that the CCU can meet its design basis requirements for heat removal.

Therefore a Technical Specification change has been requested by the licensee which will include appropriate surveillance requirements for the case wherein one CCU is out of service. This change will make the surveillance requirements of specification 4.6.2.3 consistent with specification 3.6.2.3. We have reviewed the proposed change and conclude that it 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: September 12, 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. 14 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 Appendix A Technical Specifications to identify the water flow rate requirements for the operation mode allowed by Technical Specification 3.6.2.3 wherein one of the containment cooling units in one of the containment cooling system loops may be out of service.

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.

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For further details with respect to this action, see (1) the application for amendment dated September 11, 1980, (2) Amendment No. 14 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, NW., Washington, D. C. 20555 and the Arkansas Polytechnic College, Russellville, Arkansas 72801. A copy of items (2) and (3) 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 12th day of September 1980.

FOR THE NUCLEAR REGULATORY COMMISSION


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