

Docket No.: 50-313

FEB 18 1977

Arkansas Power & Light Company  
ATTN: Mr. J. D. Phillips  
Senior Vice President  
Production, Transmission  
and Engineering  
Sixth and Pine Streets  
Pine Bluff, Arkansas 71601

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OPA (Clare Miles)  
DRoss

Gentlemen:

The Commission has issued the enclosed Amendment No. 19 to Facility Operating License No. DPR-51 for Arkansas Nuclear One - Unit No. 1. This amendment revises the provisions of the technical specifications in response to your request of October 6, 1976. This amendment deletes the technical specification surveillance requirements for the Boric Acid Mix Tank (BAMT) temperature and level channels.

Copies of our related Safety Evaluation and Notice of Issuance also are enclosed.

Sincerely,

Original signed by  
Dennis L. Ziemann

Dennis L. Ziemann, Chief  
Operating Reactors Branch #2  
Division of Operating Reactors

Enclosures:

1. Amendment No. 19 to License No. DPR-51
2. Safety Evaluation
3. Notice

cc w/enclosures: See next page

OFFICE >	ORB#2:DOR	ORB#2:DOR	OELD	C-ORB#2:DOR	
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DATE >	2/9/77	2/19/77	2/15/77	2/18/77	

Arkansas Power & Light Company

- 2 -

February 18, 1977

cc w/enclosures:

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U. S. Environmental Protection  
Agency  
Region VI Office  
ATTN: EIS COORDINATOR  
1201 Elm Street  
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Honorable Ermil Grant  
Acting County Judge of Pope County  
Pope County Courthouse  
Russellville, Arkansas 72801

cc w/enclosures and cy of AP&L  
filing dtd. 10/6/76:  
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 & LIGHT COMPANY

DOCKET NO. 50-313

ARKANSAS NUCLEAR ONE - UNIT NO. 1

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 19  
License No. DPR-51

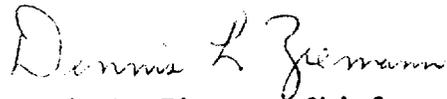
1. The Nuclear Regulatory Commission (the Commission) has found that:
  - A. The application for amendment by Arkansas Power & Light Company (the licensee) dated October 6, 1976, complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act), and the Commission's 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. DPR-51 is hereby amended to read as follows:

(2) Technical Specifications

The Technical Specifications contained in Appendices A and B, as revised through Amendment No. 19, 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



Dennis L. Ziemann, Chief  
Operating Reactors Branch #2  
Division of Operating Reactors

Attachment:  
Changes to the Technical  
Specifications

Date of Issuance: February 18, 1977

ATTACHMENT TO LICENSE AMENDMENT NO. 19

FACILITY OPERATING LICENSE NO. DPR-51

DOCKET NO. 50-313

Replace existing page 72 of the Appendix A portion of the Technical Specifications with the attached revised page 72. The changed area on the revised page is identified by a marginal line.

Table 4.1-1 (Cont'd)

Channel Description	Check	Test	Calibrate	Remarks
30. Decay Heat Removal System Isolation Valve Automatic Closure and Interlock System	S(1)(2)	M(1)(3)	R	(1) Includes RCS Pressure Analog Channel (2) Includes CFT Isolation Valve Position (3) Shall Also Be Tested During Refueling Shutdown Prior to Re-pressurization at a pressure greater than 300 but less than 420 psig.
31. Turbine Overspeed Trip Mechanism	NA	R	NA	
32. Steam Line Break Instrumentation And Control System Logic Test & Control Circuits	W	Q	R	
33. Diesel Generator Protective Relaying, Starting Interlocks And Circuitry	M	Q	NA	
34. Off-site Power Undervoltage And Protective Relaying Interlocks And Circuitry	W	R	R	
35. Borated Water Storage Tank Level Indicator	W	NA	R	
36. (Deleted)				



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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION

SUPPORTING AMENDMENT NO. 19 TO FACILITY OPERATING LICENSE NO. DPR-51

ARKANSAS POWER & LIGHT COMPANY

ARKANSAS NUCLEAR ONE - UNIT 1

DOCKET NO. 50-313

Introduction

By letter dated October 6, 1976, the Arkansas Power & Light Company (AP&L) submitted an application for a license amendment to delete the surveillance requirements for the Boric Acid Mix Tank (BAMT) temperature and level channels.

Discussion and Evaluation

Present Technical Specification 4.1, OPERATIONAL SAFETY ITEMS, specifies the "minimum frequency and type of surveillance to be applied to unit equipment and conditions," and applies to "items directly related to safety limits and limiting conditions for operation." Surveillance of level and temperature of the BAMT is presently included in this specification, with requirements delineated in Table 4.1-1. However, this tank is not required to fulfill any safety function. The boric acid addition tank, borated water storage tank (BWST), and two core flooding tanks provide boric acid for injection if required during accident conditions. Operating level and concentration of contents in the boric acid addition tank are prescribed by the technical specification 3.2. Technical Specification 3.3 delineates level and concentration requirements for the BWST and core flooding tanks. There are no such limits for the BAMT, nor are any necessary.

The BAMT is utilized for batch mixing of boric acid, with an operator in attendance. Therefore level instrumentation is not essential. The tank is equipped with an agitator for mixing and electric heaters to assure solubility of the boric acid. However, even if the temperature was not maintained at a level high enough to maintain solubility, the resulting crystallization would not affect the remainder of the chemical addition system.

Because the level and temperature instrumentation on the BAMT serve no safety function and because the tank is not required to function during accident conditions, the proposed deletion of these surveillance requirements 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.

### Conclusions

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 increase 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: February 18, 1977

UNITED STATES NUCLEAR REGULATORY COMMISSION

DOCKET NO. 50-313

ARKANSAS POWER & LIGHT COMPANY

NOTICE OF ISSUANCE OF AMENDMENT TO FACILITY  
OPERATING LICENSE

The U. S. Nuclear Regulatory Commission (the Commission) has issued Amendment No. 19 to Facility Operating License No. DPR-51, issued to Arkansas Power & Light Company (the licensee), which revised the Technical Specifications for operation of Arkansas Nuclear One - Unit No. 1 (the facility) located in Pope County, Arkansas. The amendment is effective as of its date of issuance.

This amendment deleted Technical Specification surveillance requirements for Boric Acid Mix Tank level and temperature channels.

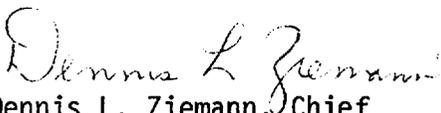
The application for the amendment complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act), and the Commission's rules and regulations. The Commission has made appropriate findings as required by the Act and the Commission's rules and regulations in 10 CFR Chapter 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 the amendment will not result in any significant environmental impact and that pursuant to 10 CFR §51.5(d)(4) an environmental impact statement or negative declaration and environmental impact appraisal need not be prepared in connection with issuance of this amendment.

For further details with respect to this action, see (1) the application for amendment dated October 6, 1976, (2) Amendment No. 19 to Facility Operating License No. DPR-51, and (3) the Commission's related Safety Evaluation. All of these items are available for public inspection at the Commission's Public Document Room, 1717 H Street, N.W., Washington, D.C., and at the Arkansas Polytechnic College, Russellville, Arkansas 72801. A single 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 Operating Reactors.

Dated at Bethesda, Maryland, this 18th day of February, 1977.

FOR THE NUCLEAR REGULATORY COMMISSION

  
Dennis L. Ziemann, Chief  
Operating Reactors Branch #2  
Division of Operating Reactors