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Docket No. 50-313

DEC 20 1977

Arkansas Power & Light Company  
ATTN: Mr. William Cavanaugh, III  
Executive Director, Generation  
and Construction

P. O. Box 551  
Little Rock, Arkansas 72203

Gentlemen:

In response to your request dated November 1, 1977, enclosed is Amendment No. 29 to Facility Operating License DPR-51 for Arkansas Nuclear One, Unit 1 (ANO-1).

The amendment modifies the ANO-1 Technical Specifications to delete the requirement for submittal of an Annual Operating Report, while retaining the requirements which had been included therein for submittal of an Annual Occupational Exposure Data Report and the report of steam generator tube inservice inspection.

Various modifications to your proposal were necessary to meet our requirements. These were discussed with and agreed to by members of your staff. The requested additions to pages 77 and 110d, and a portion of your requested modifications to page 110m, will be reviewed at a later date in conjunction with review of your October 19, 1977 submittal. The October submittal and the requested changes concern revised inservice inspection requirements to conform with the requirements of Title 10 Code of Federal Regulations Part 50 (10 CFR 50), paragraph 50.55a(g).

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

Sincerely,

Original Signed by  
Don K. Davis

Don K. Davis, Acting Chief  
Operating Reactors Branch #2  
Division of Operating Reactors

Enclosures:

1. Amendment No. 29 to DPR-51
2. Safety Evaluation
3. Notice

*mod. was to add 10/19/77 appl. to items on last page of the notice. LD 12/19*

OFFICE	CC	w/enclosures	See next page	ORB #2 RDiggs	ORB #2 RSnaider:mjf	OELD with [unclear] 12/16/77	ORB #2 DDavis
SURNAME							
DATE				12/16/77	12/16/77	12/16/77	12/20/77



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

December 20, 1977

Docket No. 50-313

Arkansas Power & Light Company  
ATTN: Mr. William Cavanaugh, III  
Executive Director, Generation  
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P. O. Box 551  
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Copies of our related Safety Evaluation and the Notice of Issuance are enclosed.

Sincerely,

A handwritten signature in dark ink, appearing to read "Don K. Davis".

Don K. Davis, Acting Chief  
Operating Reactors Branch #2  
Division of Operating Reactors

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2. Safety Evaluation
3. Notice

cc w/enclosures: See next page

cc w/enclosures:

Phillip K. Lyon, Esquire  
House, Holms & Jewell  
1550 Tower Building  
Little Rock, Arkansas 72201

Mr. Daniel H. Williams  
Manager, Licensing  
Arkansas Power & Light Company  
Post Office Box 551  
Little Rock, Arkansas 72203

Mr. John W. Anderson, Jr.  
Plant Superintendent  
Arkansas Nuclear One  
Post Office Box 608  
Russellville, Arkansas 72801

Arkansas Polytechnic College  
Russellville, Arkansas 72801

Director, Bureau of Environmental -- w/cy of 11/1/77 APL filing.  
Health Services  
4815 West Markham Street  
Little Rock, Arkansas 72201

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

Chief, Energy Systems Analyses  
Branch (AW-459)  
Office of Radiation Programs  
U. S. Environmental Protection Agency  
Room 645, East Tower  
401 M Street, S. W.  
Washington, D. C. 20460

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



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. 29  
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 November 1, 1977, 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 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. 29, are hereby incorporated in the license. The licensee shall operate the facility in accordance with the Technical Specifications.

3. This license amendment is effective on January 1, 1978.

FOR THE NUCLEAR REGULATORY COMMISSION



Don K. Davis, Acting Chief  
Operating Reactors Branch #2  
Division of Operating Reactors

Attachment:  
Changes to the Technical  
Specifications

Date of Issuance: December 20, 1977

ATTACHMENT TO LICENSE AMENDMENT NO. 29

FACILITY OPERATING LICENSE NO. DPR-51

DOCKET NO. 50-313

Accomplish page changes to the Appendix A portion of the Technical Specifications as noted below. The changed areas on the revised pages are identified by a marginal line.

Remove Existing Page

110m  
140  
141  
142  
142a (deleted)

Add Revised Page

110m  
140  
141  
142  
—

8. Tube Inspection means an inspection of the steam generator tube from the point of entry completely to the point of exit.

- b. The steam generator shall be determined operable after completing the corresponding actions (plug all tubes exceeding the plugging limit and all tubes containing through-wall cracks) required by Table 4.18.2.

#### 4.18.6 Reports

Following each inservice inspection of steam generator tubes, the complete results of the inspection shall be reported to the NRC. This report, to be submitted within 45 days of inspection completion, shall include:

- a. Number and extent of tubes inspected;
- b. Location and percent of wall-thickness penetration for each indication of an imperfection; and
- c. Identification of tubes plugged.

This report shall be in addition to the report of results of steam generator tube inspections which fall into Category C-3 and which require prompt notification of the NRC per Specification 6.12.3.

#### Bases

The surveillance requirements for inspection of the steam generator tubes ensure that the structural integrity of this portion of the RCS will be maintained. The program for inservice inspection of steam generator tubes is based on a modification of Regulatory Guide 1.83, Revision 1. Inservice inspection of steam generator tubing is essential in order to maintain surveillance of the conditions of the tubes in the event that there is evidence of mechanical damage or progressive degradation due to design, manufacturing errors, or inservice conditions that lead to corrosion. Inservice inspection of steam generator tubing also provides a means of characterizing the nature and cause of any tube degradation so that corrective measures can be taken.

## 6.12 REPORTING REQUIREMENTS

6.12.1 In addition to the applicable reporting requirements of Title 10, Code of Federal Regulations, the following identified reports shall be submitted to the Director of the appropriate Regional Office of Inspection and Enforcement unless otherwise noted.

### 6.12.2 Routine Reports

#### 6.12.2.1 Startup Report

A summary report of plant startup and power escalation testing shall be submitted following (1) receipt of an operating license, (2) amendment to the license involving a planned increase in power level, (3) installation of fuel that has a different design or has been manufactured by a different fuel supplier, and (4) modifications that may have significantly altered the nuclear, thermal, or hydraulic performance of the plant. The report shall address each of the tests identified in the FSAR and shall in general include a description of the measured values of the operating conditions or characteristics obtained during the test program and a comparison of these values with design predictions and specifications. Any corrective actions that were required to obtain satisfactory operation shall also be described. Any additional specific details required in license conditions based on other commitments shall be included in this report.

Startup reports shall be submitted within (1) 90 days following completion of the startup test program, (2) 90 days following resumption or commencement of commercial power operation, or (3) 9 months following initial criticality, whichever is earliest. If the Startup Report does not cover all three events (i.e., initial criticality, completion of startup test program, and resumption or commencement of commercial power operation), supplementary reports shall be submitted at least every three months until all three events have been completed.

#### 6.12.2.2 Occupational Exposure Data Report 1/

An Occupational Exposure Data Report for the previous calendar year shall be submitted prior to March 1 of each year. The report shall contain a tabulation on an annual basis of the number of station, utility and other personnel (including contractors) receiving exposures greater than 100 mrem/yr and their associated man rem exposure according to work and job functions, 2/ e.g., reactor operations and surveillance, inservice inspection, routine maintenance, special maintenance (describe maintenance), waste processing, and refueling.

1/ A single submittal may be made for a multiple unit station. The submittal should combine those sections that are common to all units at the station.

2/ This tabulation supplements the requirements of 20.407 of 10 CFR Part 20.

The dose assignment to various duty functions may be estimates based on pocket dosimeter, TLD, or film badge measurements. Small exposures totalling less than 20% of the individual total dose need not be accounted for. In the aggregate, at least 80% of the total whole body dose received from external sources shall be assigned to specific major work functions.

#### 6.12.2.3 Monthly Operating Report

Routine reports of operating statistics which include:

- (1) Average Daily Unit Power Level
- (2) Operating Data Report
- (3) Unit Shutdowns and Power Reductions
- (4) Narrative Summary of Operating Experience

shall be submitted on a monthly basis to the Director, Office of Management Information and Program Control, U. S. Nuclear Regulatory Commission, Washington, D. C. 20555, with a copy to the appropriate Regional Office, by the fifteenth of each month following the calendar month covered by the report.

#### 6.12.3 Reportable Occurrences

Reportable occurrences, including corrective actions and measures to prevent reoccurrence, shall be reported to the NRC as required below. Supplemental reports may be required to fully describe final resolution of occurrence. In case of corrected or supplemental reports, a licensee event report shall be completed and reference shall be made to the original report date.

##### 6.12.3.1 Prompt Notification With Written Followup

The types of events listed below shall be reported as expeditiously as possible, but within 24 hours, by telephone and confirmed by telegraph, mailgram, or facsimile transmission to the Director of the appropriate Regional Office, or his designate no later than the first working day following the event, with a written followup report within two weeks. A copy of the confirmation and the written followup report shall also be sent to the Director, Office of Management Information and Program Control, USNRC. The written report shall include, as a minimum, a completed copy of a licensee event report form. Information provided on the licensee event report form shall be supplemented, as needed, by additional narrative material to provide complete explanation of the circumstances surrounding the event.

- (a) Failure of the reactor protection system or other systems subject to limiting safety system settings to initiate the required protective function by the time a monitored parameter reaches the setpoint specified as the limiting safety system setting in the Technical Specifications or failure to complete the required protective function.

NOTE:

Instrument drift discovered as a result of testing need not be reported under this item but may be reportable under items (e), (f), or 6.12.3.2(a).



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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION

SUPPORTING AMENDMENT NO. 29 TO LICENSE NO. DPR-51

ARKANSAS POWER & LIGHT COMPANY (AP&L)

ARKANSAS NUCLEAR ONE, UNIT NO. 1

DOCKET NO. 50-313

Introduction

Regulatory Guide 1.16, "Reporting of Operating Information - Appendix A Technical Specifications", is the basis for reporting requirements found in Technical Specifications today. When these Technical Specifications were issued, we requested that licensees use the format in the guide for the Licensee Event Report (LER) and Monthly Operating Report. In some cases licensees' use of these formats was required by a reference to Regulatory Guide 1.16 in the Technical Specifications. After two years of experience with the reporting requirements identified in this guide, we reviewed the scope of information licensees are required to submit in the LER, Annual Operating Report, Monthly Operating Report and Startup Report.

Based on our review of LER's, we developed a modified format for the LER to make this document more useful for evaluation purposes. By letters sent in July and August 1977, we informed licensees of the new LER format and requested that they use it. For those licensees who reference Regulatory Guide 1.16 in their Technical Specifications (AP&L does not), we also requested that they propose a change which would replace this reference with appropriate words from the guide and which would delete mandatory use of the reporting forms contained in the guide.

From our review of all licensee reports, we determined that much of the information found in the Annual Operating Report either is addressed in the LER's or Monthly Operating Reports, which are submitted in a more timely manner, or could be included in these reports with only a slight augmentation of the information already supplied. Therefore, we concluded that the Annual Operating Report could be deleted as a Technical Specification requirement if certain additional information were provided in the Monthly Operating Reports. As a result we sent letters during September 1977 to licensees informing them that a revised and improved format for Monthly Operating Reports was available and requested that they use it. For those licensees with the Technical Specification reference to Regulatory

Guide 1.16, the change deleting this reference, discussed above, would be necessary. In addition, licensees were informed that if they agreed to use the revised format they should submit a change request to delete the requirement for an Annual Operating Report except that occupational exposure data must still be submitted.

By letter dated November 1, 1977, Arkansas Power & Light Company (AP&L) proposed an amendment to the Arkansas Nuclear One, Unit No. 1 (ANO-1) operating license. This amendment would modify the Technical Specifications to delete the requirement for an Annual Operating Report while retaining the requirement for an Annual Occupational Exposure Data Report and a report of steam generator tube inservice inspection.

### Evaluation

AP&L has proposed to delete all but one of the five specified items in the Annual Operating Report. The report which tabulates occupational exposure on an annual basis is needed and, therefore, the requirement to submit this information has been retained. We have determined that the failed fuel examination information does not need to be supplied routinely by licensees because this type of historical data can be obtained in a compiled form from fuel vendors when needed. The information concerning forced reductions in power and outages will be supplied in the revised Monthly Operating Reports and the narrative summary of operating experience will be provided on a monthly basis in the Monthly Operating Report rather than annually. AP&L has committed to use the revised Monthly Operating Report format beginning with their report for January 1978, as we requested. We have concluded that all needed information will be provided and deletion of the Annual Operating Report is acceptable. The previous Annual Operating Report requirement for a steam generator tube inspection report has been moved to the applicable surveillance specification.

We have determined that the additional information to be contained in the Monthly Operating Report justifies later submittal of the report, hence the specification has been revised to indicate submittal by the 15th (vice the 10th) of each month following the calendar month covered by the report. This is acceptable.

### Environmental Consideration

We have determined that this 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: December 20, 1977

UNITED STATES NUCLEAR REGULATORY COMMISSIONDOCKET NO. 50-313ARKANSAS POWER & LIGHT COMPANYNOTICE OF ISSUANCE OF AMENDMENT TO FACILITY  
OPERATING LICENSE

The U. S. Nuclear Regulatory Commission (the Commission) has issued Amendment No. 29 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 (ANO-1) (the facility) located in Pope County, Arkansas. The amendment will become effective as of January 1, 1978.

The amendment revised the Technical Specifications for the facility to delete the requirement for an Annual Operating Report while retaining the requirements which had been contained therein for submittal of an Annual Occupational Exposure Data Report and the report of steam generator tube inservice inspection. Because of the additional information now required in the Monthly Operating Report, that report submittal date has been modified to the 15th (vice the 10th) of each month following the calendar month covered by the report. The licensee's requested additions to Technical Specification pages 77 and 110d, and a portion of the requested change to page 110m shall be reviewed at a later date in conjunction with review of the licensee's October 19, 1977 submittal. This submittal and the requested changes concern revised inservice inspection requirements to conform with the requirements of 10 CFR 50.55a(g).

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 §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 November 1, 1977, (2) Amendment No. 29 to License No. DPR-51, and (3) the Commission's related Safety Evaluation. All of these items and the October 19, 1977 application by the licensee 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 20th day of December, 1977.

FOR THE NUCLEAR REGULATORY COMMISSION



Don K. Davis, Acting Chief  
Operating Reactors Branch #2  
Division of Operating Reactors