

July 16, 1990

Docket No. 50-313

Mr. Neil S. Carns
Vice President, Nuclear
Arkansas Nuclear One
Post Office Box 551
Little Rock, Arkansas 72203

Dear Mr. Carns:

SUBJECT: ISSUANCE OF AMENDMENT NO. 133 TO FACILITY OPERATING LICENSE
NO. DPR-51 - ARKANSAS NUCLEAR ONE, UNIT 1 (TAC NO. 76694)

The Commission has issued the enclosed Amendment No. 133 to Facility Operating License No. DPR-51 for the Arkansas Nuclear One, Unit No. 1 (ANO-1). This amendment consists of changes to the Technical Specifications (TSs) in response to your application dated April 20, 1990.

The amendment modifies Surveillance Requirement 4.6.1.3 of the ANO-1 TSs to permit an extension of the next required 18-month diesel generator (DG) inspections. The amendment allows the inspections to be performed during the next refueling outage, but no later than December 1, 1990.

A copy of the Safety Evaluation is also enclosed. Notice of Issuance will be included in the Commission's next biweekly Federal Register notice.

Sincerely,
//s//

Thomas W. Alexion, Project Manager
Project Directorate IV-1
Division of Reactor Projects - III,
IV, V and Special Projects
Office of Nuclear Reactor Regulation

Enclosures:

- 1. Amendment No. 133 to DPR-51
- 2. Safety Evaluation

cc w/enclosures:

See next page

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

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Sincerely,

A handwritten signature in cursive script that reads "Thomas W. Alexion".

Thomas W. Alexion, Project Manager
Project Directorate IV-1
Division of Reactor Projects - III,
IV, V and Special Projects
Office of Nuclear Reactor Regulation

Enclosures:

1. Amendment No. 133 to DPR-51
2. Safety Evaluation

cc w/enclosures:
See next page

Mr. Neil S. Carns
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Arkansas Nuclear One, Unit 1

cc:

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Honorable Joe W. Phillips
County Judge of Pope County
Pope County Courthouse
Russellville, Arkansas 72203

Ms. Greta Dicus, Director
Division of Environmental Health
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Arkansas Department of Health
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UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

ENTERGY OPERATIONS, INC.

DOCKET NO. 50-313

ARKANSAS NUCLEAR ONE, UNIT 1

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 133
License No. DPR-51

1. The Nuclear Regulatory Commission (the Commission) has found that:
 - A. The application for amendment by Arkansas Power and Light Company dated April 20, 1990, 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, as amended, 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 license 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.

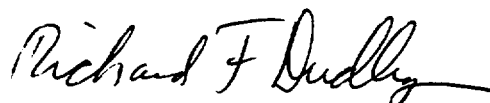
2. Accordingly, the license is amended by changes to the Technical Specifications as indicated in the attachment to this license amendment, and Paragraph 2.C.(2) of Facility Operating License No. DPR-51 is hereby amended to read as follows:

2. Technical Specifications

- The Technical Specifications contained in Appendix A, as revised through Amendment No.133, are hereby incorporated in the license. The licensee shall operate the facility in accordance with the Technical Specifications.

3. The license amendment is effective as of its date of issuance.

FOR THE NUCLEAR REGULATORY COMMISSION



Richard F. Dudley, Acting Director
Project Directorate IV-1
Division of Reactor Projects - III,
IV, V and Special Projects
Office of Nuclear Reactor Regulation

Attachment:
Changes to the Technical
Specifications

Date of Issuance: July 16, 1990

ATTACHMENT TO LICENSE AMENDMENT NO. 133

FACILITY OPERATING LICENSE NO. DPR-51

DOCKET NO. 50-313

Revise the following page of the Appendix "A" Technical Specifications with the attached page. The revised page is identified by Amendment number and contain vertical lines indicating the area of change.

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4.6 AUXILIARY ELECTRICAL SYSTEM TESTS

Applicability

Applies to the periodic testing and surveillance requirements of the auxiliary electrical system to ensure it will respond promptly and properly when required.

Specification

4.6.1 Diesel Generators

1. Each diesel generator shall be manually started each month and demonstrated to be ready for loading within 15 seconds. The signal initiating the start of the diesel shall be varied from one test to another (start with handswitch at control room panel and at diesel local control panel) to verify all starting circuits are operable. The generator shall be synchronized from the control room and loaded to full rated load and allowed to run until diesel generator operating temperatures have stabilized.
2. A test shall be conducted once every 18 months to demonstrate the ability of the diesel generators to perform as designed by:
 - a. simulating a loss of off-site power,
 - b. simulating of loss of off-site power in conjunction with an ESF signal,
 - c. simulating interruption of off-site power and subsequent reconnection of the on-site power source to their respective busses, and
 - d. operating the diesel generator for ≥ 1 hour after operating temperatures have stabilized.
3. Each diesel generator shall be given an inspection once every 18 months following the manufacturer's recommendations for this class of standby service. (A one-time extension of this interval is allowed so that these may be performed during the 1R9 refueling outage, and completed no later than December 1, 1990.)
4. During the monthly diesel generator test specified in paragraph 1 above, the following shall be performed:
 - a. The diesel generator starting air compressors shall be checked for operation and their ability to recharge the air receivers.
 - b. The diesel oil transfer pumps shall be checked for operability and their ability to transfer oil to the day tank.
 - c. The day tank fuel level shall be verified.
 - d. The emergency storage tank fuel level shall be verified.



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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION

RELATED TO AMENDMENT NO. 133TO

FACILITY OPERATING LICENSE NO. DPR-51

ENTERGY OPERATIONS, INC.

ARKANSAS NUCLEAR ONE, UNIT NO. 1

DOCKET NO. 50-313

INTRODUCTION

By letter dated April 20, 1990, Arkansas Power and Light Company (AP&L) requested an amendment to the Technical Specifications (TSs) appended to Facility Operating License No. DPR-51 for Arkansas Nuclear One, Unit 1 (ANO-1). The proposed amendment would modify Surveillance Requirement 4.6.1.3 to permit an extension of the required 18-month diesel generator (DG) inspections which are required to be performed by September 12, 1990, for DG "A" and September 9, 1990, for DG "B." This one-time interval extension would allow the next surveillance inspections to be performed during the refueling outage scheduled to begin on October 1, 1990, but no later than December 1, 1990. The performance of the DG inspections during plant operation could result in the plant entering Limiting Conditions for Operation (LCOs) and require a plant shutdown, and would increase the risk of a total loss of AC power.

BACKGROUND

Surveillance Requirement 4.6.1.3 of the TSs requires an inspection of each diesel generator once every 18 months following the manufacturer's recommendations for this class of standby service. The surveillance inspections were last performed on October 27, 1988 for DG "A" and October 24, 1988 for DG "B." In order to meet the 18-month surveillance interval, the inspections would be due in June 1990 (or in September 1990 considering the TSs allowed 25% surveillance interval extension).

The diesel generators are designed to furnish reliable in-plant AC power adequate for safe plant shutdown and for operation of engineered safety features upon loss of off-site power. The reliability of DG "A" and DG "B" over the last 156 and 163 start demands, dating back to January 1985, is 98.7% and 97.5%, respectively.

The 18-month inspection interval for the diesel generators was selected to be consistent with the normal 18-month fuel cycle so that the surveillance activities which could impact plant operation, as discussed above, may be performed during refueling outages. However, the present ANO-1 operating cycle has been extended because of the existing 80% power limitation due to a design deficiency in the ECCS High Pressure Injection (HPI) piping.

In its application, AP&L indicated that the diesel generator vendor has evaluated and approved the inspection interval extension up to 26 months. With the extension, the DG vendor recommended that the inspection required by the surveillance requirements can be extended on a one-time basis assuming the licensee is performing trending of certain data to verify that there is no degradation of key diesel generator components that would interfere with the safety function of the diesel generators.

EVALUATION

AP&L requested an extension of approximately 3 months from the currently required date for the surveillance inspection. This 3-month extension would permit the unit to continue operation at power until the scheduled refueling outage in October 1990.

Considering the high reliability of the diesel generators and the relatively short extension requested, the proposed change should not significantly affect the safety function of the diesel generators. Therefore, the staff concludes that the proposed extension of the diesel generator inspections until the October 1990 refueling outage, but no later than December 1, 1990, is acceptable.

ENVIRONMENTAL CONSIDERATION

The amendment involves a change in a requirement with respect to the installation or use of a facility component located within the restricted area as defined in 10 CFR Part 20 and changes in surveillance requirements. The staff has determined that the amendment involves no significant increase in the amounts, and no significant change in the types, of any effluents that may be released offsite, and that there is no significant increase in individual or cumulative occupational radiation exposures. The Commission has previously issued a proposed finding that the amendment involves no significant hazards consideration and there has been no public comment on such finding. Accordingly, the amendment meets the eligibility criteria for categorical exclusion set forth in 10 CFR Section 51.22(c)(9). Pursuant to 10 CFR 51.22(b), no environmental impact statement or environmental assessment need be prepared in connection with the issuance of the amendment.

CONCLUSION

The staff has concluded, based on the considerations discussed above, that: (1) there is reasonable assurance that the health and safety of the public will not be endangered by operation in the proposed manner, and (2) such activities will be conducted in compliance with the Commission's regulations, and the issuance of the amendment will not be inimical to the common defense and security or to the health and safety of the public.

Date: July 16, 1990

Principal Contributors: L. Tran
T. Alexion