Docket No. 50-368

Mr. Neil S. Carns Vice President, Operations ANO Entergy Operations, Inc. Route 3 Box 137G Russellville, Arkansas 72801

Dear Mr. Carns:

SUBJECT: ISSUANCE OF AMENDMENT NO. 113 TO FACILITY OPERATING LICENSE: NO. NPF-6 - ARKANSAS NUCLEAR ONE, UNIT NO. 2 (TAC NO. 77953)

The Commission has issued the enclosed Amendment No.113 to Facility Operating License No. NPF-6 for the Arkansas Nuclear One, Unit No. 2 (ANO-2). This amendment consists of changes to the Technical Specifications (TSs) in response to your application dated October 17, 1990.

The amendment to ANO-2 TS 3/4.7.8, Hydraulic Shock Suppressors (Snubbers), allows the currently required visual inspection due between August 8, 1990 and February 6, 1991, to be delayed until the end of the 1991 Refueling Outage, 2R8; in no case later than May 7, 1991.

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

Sincerely,

ORIGINAL SIGNED BY:

Sheri R. Peterson, Project Manager Project Directorate IV-1 Division of Reactor Projects III, IV, and V Office of Nuclear Reactor Regulation

Enclosures:

- 1. Amendment No. 113 to NPF-6
- 2. Safety Evaluation

cc w/enclosures: See next page

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UNITED STATES NUCLEAR REGULATORY COMMISSION

WASHINGTON, D. C. 20555

January 29, 1991

Docket No. 50-368

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Sincerely.

Sheri R. Peterson, Project Manager Project Directorate IV-1

Their R. Paterson

Division of Reactor Projects III, IV, and V Office of Nuclear Reactor Regulation

Enclosures:

Amendment No. 113 to NPF-6

2. Safety Evaluation

cc w/enclosures: See next page Mr. Neil S. Carns Entergy Operations, Inc.

cc:

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Honorable Joe W. Phillips County Judge of Pope County Pope County Courthouse Russellville, Arkansas 72801

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

ENTERGY OPERATIONS, INC.

DOCKET NO. 50-368

ARKANSAS NUCLEAR ONE, UNIT NO. 2

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 113 License No. NPF-6

- 1. The Nuclear Regulatory Commission (the Commission) has found that:
 - A. The application for amendment by Entergy Operations, Inc. (the licensee) dated October 17, 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, 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. NPF-6 is hereby amended to read as follows:
 - 2. Technical Specifications

The Technical Specifications contained in Appendix A, as revised through Amendment No.113, 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

Thomas P. Gwynn, Acting Director

Project Directorate IV-1

Division of Reactor Projects III, IV, and V

Office of Nuclear Reactor Regulation

Attachment: Changes to the Technical Specifications

Date of Issuance: January 29, 1991

ATTACHMENT TO LICENSE AMENDMENT NO.113

FACILITY OPERATING LICENSE NO. NPF-6

DOCKET NO. 50-368

Revise the following page of the Appendix "A" Technical Specifications with the attached page. The revised page is identified by Amendment number and contains vertical lines indicating the area of change. The corresponding overleaf page is also provided to maintain document completeness.

REMOVE PAGE

INSERT PAGE

3/4 7-22

3/4 7-22

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3/4.7.8 HYDRAULIC SHOCK SUPPRESSORS (SNUBBERS)

LIMITING CONDITION FOR OPERATION

3.7.8 All snubbers shall be OPERABLE. The only snubbers excluded from this requirement are those installed on nonsafety-related systems and then only if their failure or failure of the system on which they are installed, would have no adverse effect on any safety-related system.

<u>APPLICABILITY</u>: MODES 1, 2, 3 and 4. MODES 5 and 6 for snubbers located on systems required OPERABLE in those MODES.

<u>ACTION</u>: With one or more applicable snubbers inoperable, within 72 hours replace or restore the inoperable snubber(s) to OPERABLE status and perform an engineering evaluation per Specification 4.7.8.f on the attached component, or declare the attached system inoperable and follow the appropriate ACTION statement for that system.

SURVEILLANCE REQUIREMENTS

4.7.8 Each applicable snubber shall be demonstrated OPERABLE by performance of the following augmented inservice inspection program and the requirements of Specification 4.0.5.

a. Inspection Types

As used in this specification, type of snubber shall mean snubbers of the same design and manufacturer, irrespective of capacity.

Snubbers are categorized as inaccessible or accessible during reactor operation.

b. Visual Inspections

Visual inspections shall be performed in accordance with the following schedule:

No. Inoperable Snubbers	Subsequent Visual		
per Inspection Period	Inspection Period		
0 1 2 3, 4 5, 6, 7 8 or more	18 months ± 25% 12 month ± 25%* 6 months ± 25% 124 days ± 25% 62 days ± 25% 31 days ± 25%		

The snubbers may be categorized into groups based on type and accessibility. Each group may be inspected independently in accordance with the above schedule.

^{*}For inaccessible snubbers, the inspection due November 7, 1990 (12 month ±25% from November 7, 1989) may be extended thru the 1991 refueling outage, in no case later than May 7, 1991.



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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION

RELATED TO AMENDMENT NO. 113 TO

FACILITY OPERATING LICENSE NO. NPF-6

ENTERGY OPERATIONS, INC.,

ARKANSAS NUCLEAR ONE, UNIT NO. 2

DOCKET NO. 50-368

1.0 INTRODUCTION

By letter dated October 17, 1990, Entergy Operations, Inc. (or the licensee) requested an amendment to the Technical Specifications (TS) appended to Facility Operating License No. NPF-6 for Arkansas Nuclear One, Unit No. 2 (ANO-2). The proposed change to the ANO-2 Technical Specification 3/4.7.8, Hydraulic Shock Suppressors (Snubbers), will add a note to allow extension of the currently required inspection period, between August 8, 1990, and February 6, 1991, to the 1991 Refueling Outage, 2R8; in no case later than May 7, 1991.

The current 12-month interval for inspection is based on one snubber out of a group of 103 inaccessible snubbers failing the visual examination during the last refueling outage. This was the only failure in 403 snubbers inspected during the last ANO-2 refueling outage. According to the licensee, the snubber failed due to an installation error and not service-induced causes, thus, it does not indicate a generic problem.

2.0 EVALUATION

The snubber that failed the visual inspection was a mechanical Anchor-Darling snubber. The snubber was found fully extended with the corner of the shroud bent inward allowing a total movement of only approximately 1/8". In its fully extended position, the shroud travels beyond the indicator tube approximately 1/8". When travel occurred in the compression direction, the corner of the shroud of the failed snubber caught on the guide tube bending it inward. This could only occur with the snubber fully extended.

When the problem was identified, all snubbers of this type were reviewed to ensure no other snubber would reach full extension in either the hot or cold condition. If the snubbers installed in ANO-2 traveled to within 3/8" of full extension, they were identified and an additional inspection was performed specifically to look for damaged shrouds, loose or bent shrouds, loose or broken dust cover rivets, and snubbers with excessive installed lateral swing angles. No other snubbers were identified using the above criteria and ANO does not expect other failures of this type during service. ANO determined the condition was an installation error not a service-induced failure and does

not indicate a generic problem. Therefore, an extension of the interval until the 2R8 refueling outage will not increase the probability of snubber visual failures.

The current TS requirements do not take the snubber population at a plant into consideration in determining the next inspection interval. To alleviate this situation, the staff has developed an alternate schedule for visual inspections that maintains the same confidence level as the existing schedule and generally allow the licensee to perform visual inspections and corrective actions during plant outages. These alternate requirements for snubber visual inspection intervals and corrective actions were issued to all licensees and applicants via Generic Letter 90-09 dated December 11, 1990. Staff evaluation based on this approach indicates that for the number of failures and total snubber population of ANO-2, the same confidence level can be maintained regarding the operability of snubbers within specified limits for an increased inspection interval of at least that requested by the licensee. Therefore, based on the past inspection results of snubbers at ANO-2 and our evaluation, we find the proposed one-time TS change to ANO-2 acceptable.

3.0 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.

4.0 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: January 29, 1991

Principal Contributor: J. Rajan