

April 16, 1997

Mr. C. Randy Hutchinson  
Vice President, Operations ANO  
Entergy Operations, Inc.  
1448 S. R. 333  
Russellville, AR 72801

SUBJECT: ARKANSAS NUCLEAR ONE, UNIT 2 - ENVIRONMENTAL ASSESSMENT RELATED TO  
10 CFR PART 50, APPENDIX R, SECTION III.0 EXEMPTION (TAC NO. M97531)

Dear Mr. Hutchinson:

Enclosed is a copy of the Environmental Assessment and Finding of No Significant Impact related to your application for an exemption from certain requirements of 10 CFR Part 50, Appendix R, Section III.0 dated December 23, 1996. The proposed exemption would exempt the licensee from the requirement to have an oil collection system for the RCP lube oil addition system, thus allowing Arkansas Nuclear One, Unit 2 to utilize compensatory actions and procedures to add lube oil to reactor coolant pumps (RCPs) in limited quantities at power.

The assessment is being forwarded to the Office of the Federal Register for publication.

Sincerely,

ORIGINAL SIGNED BY:

George Kalman, Senior Project Manager  
Project Directorate IV-1  
Division of Reactor Projects III/IV  
Office of Nuclear Reactor Regulation

Docket No. 50-368  
Enclosure: Environmental Assessment  
cc w/encl: See next page

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UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D.C. 20555-0001

April 16, 1997

Mr. C. Randy Hutchinson  
Vice President, Operations ANO  
Entergy Operations, Inc.  
1448 S. R. 333  
Russellville, AR 72801

SUBJECT: ARKANSAS NUCLEAR ONE, UNIT 2 - ENVIRONMENTAL ASSESSMENT RELATED TO  
10 CFR PART 50, APPENDIX R, SECTION III.O EXEMPTION (TAC NO. M97531)

Dear Mr. Hutchinson:

Enclosed is a copy of the Environmental Assessment and Finding of No Significant Impact related to your application for an exemption from certain requirements of 10 CFR Part 50, Appendix R, Section III.O dated December 23, 1996. The proposed exemption would exempt the licensee from the requirement to have an oil collection system for the RCP lube oil addition system, thus allowing Arkansas Nuclear One, Unit 2 to utilize compensatory actions and procedures to add lube oil to reactor coolant pumps (RCPs) in limited quantities at power.

The assessment is being forwarded to the Office of the Federal Register for publication.

Sincerely,

A handwritten signature in cursive script, appearing to read "George Kalman", with a long horizontal line extending to the right.

George Kalman, Senior Project Manager  
Project Directorate IV-1  
Division of Reactor Projects III/IV  
Office of Nuclear Reactor Regulation

Docket No. 50-368

Enclosure: Environmental Assessment

cc w/encl: See next page

Mr. C. Randy Hutchinson  
Entergy Operations, Inc.

Arkansas Nuclear One, Unit 2

cc:

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Russellville, AR 72801

UNITED STATES NUCLEAR REGULATORY COMMISSION  
ENERGY OPERATIONS, INC.  
DOCKET NO. 50-368  
ARKANSAS NUCLEAR ONE, UNIT 2  
ENVIRONMENTAL ASSESSMENT AND FINDING OF  
NO SIGNIFICANT IMPACT

The U.S. Nuclear Regulatory Commission (the Commission) is considering issuance of an exemption from certain requirements of its regulations to Entergy Operations, Inc. (the licensee), in connection with operation of Arkansas Nuclear One, Unit 2, located in Pope County, Arkansas, under Facility Operating License No. NPF-6.

ENVIRONMENTAL ASSESSMENT

Identification of the Proposed Action:

The proposed action would exempt the licensee from the requirement to have an oil collection system for the RCP lube oil addition system, thus allowing the licensee to utilize compensatory actions and procedures to add lube oil to reactor coolant pumps (RCPs) in limited quantities at power. The requirement is contained in 10 CFR Part 50, Appendix R, Section III.0, which provides that the licensee shall have a collection system "capable of collecting lube oil from all pressurized and unpressurized leakage sites in the reactor coolant pump lube oil systems." It also specifies that "leakage points to be protected shall include lift pump and piping, overflow lines, lube oil cooler, oil fill and drain lines and plugs, flanged connections on

oil lines, and lube oil reservoirs where such features exist on the reactor coolant pumps."

The proposed action is in accordance with the licensee's application for an exemption dated December 23, 1997.

The Need for the Proposed Action:

The proposed action is needed to reduce dose and personnel hazards to workers who periodically add oil to the RCP lube oil system during power operation.

Environmental Impacts of the Proposed Action:

The Commission has completed its evaluation of the proposed action and has concluded that despite not having a lube oil collection system for the reactor coolant pump lube oil fill lines, the design of the oil filling system and the level of protection provided by compensatory measures during oil fill operations provide reasonable assurance that a lube oil fire will not occur. The staff also has concluded that in the event of a worst-case postulated fire, it would be of limited magnitude and extent. In addition, such a fire would not cause significant damage in the containment building and would not prevent the operators from achieving and maintaining safe shutdown conditions.

The proposed action will not increase the probability or consequences of accidents, no changes are being made in the types of any effluents that may be released offsite, and there is no significant increase in the allowable individual or cumulative occupational radiation exposure. Accordingly, the Commission concludes that there are no significant radiological environmental impacts associated with the proposed action.

With regard to potential nonradiological impacts, the proposed action involves features located entirely within the restricted area as defined in 10 CFR Part 20. It does not affect nonradiological plant effluents and has no other environmental impact. Accordingly, the Commission concludes that there are no significant nonradiological environmental impacts associated with the proposed action.

Alternatives to the Proposed Action:

Since the Commission has concluded there is no measurable environmental impact associated with the proposed action, any alternatives with equal or greater environmental impact need not be evaluated. As an alternative to the proposed action, the staff considered denial of the proposed action. Denial of the application would result in no change in current environmental impacts. The environmental impacts of the proposed action and the alternative action are similar.

Alternative Use of Resources:

This action does not involve the use of any resources not previously considered in the Final Environmental Statement for ANO-2.

Agencies and Persons Consulted:

In accordance with its stated policy, on March 14, 1997, the staff consulted with the Arkansas State official, Mr. David Snellings, Director of Radiation Control and Emergency Management, regarding the environmental impact of the proposed action. The State official had no comments.

FINDING OF NO SIGNIFICANT IMPACT

Based upon the environmental assessment, the Commission concludes that the proposed action will not have a significant effect on the quality of the

human environment. Accordingly, the Commission has determined not to prepare an environmental impact statement for the proposed action.

For further details with respect to the proposed action, see the licensee's letter dated April 11, 1996, which is available for public inspection at the Commission's Public Document Room, 2120 L Street, NW., Washington, DC, and at the local public document room located at the Tomlinson Library, Arkansas Tech University, Russellville, AR 72801.

Dated at Rockville, Maryland, this 16th day of April 1997.

FOR THE NUCLEAR REGULATORY COMMISSION



William D. Beckner, Project Director  
Project Directorate VI-1  
Division of Reactor Projects III/IV  
Office of Nuclear Reactor Regulation