

November 17, 2005

MEMORANDUM TO: Biweekly Notice Coordinator

FROM: Drew G. Holland, Project Manager **/RA**  
Plant Licensing Branch IV  
Division of Operating Reactor Licensing  
Office of Nuclear Reactor Regulation

SUBJECT: REQUEST FOR PUBLICATION IN BIWEEKLY FR NOTICE -  
NOTICE OF CONSIDERATION OF ISSUANCE OF AMENDMENT  
TO FACILITY OPERATING LICENSE, PROPOSED NO  
SIGNIFICANT HAZARDS CONSIDERATION DETERMINATION,  
AND OPPORTUNITY FOR A HEARING (TAC NO. MC8538)

Entergy Operations, Inc., Docket No. 50-368, Arkansas Nuclear One, Unit No. 2, Pope  
County, Arkansas

Date of amendment request: September 19, 2005

Description of amendment request: The proposed change will modify the Surveillance Requirements related to Arkansas One, Unit 2, technical specification (TS) 3.1.1.4, Moderator Temperature Coefficient (MTC), and will allow the use of topical report WCAP-16011-P-A, "Startup Test Activity Reduction Program." A change to NUREG-1432, "Standard Technical Specifications Combustion Engineering Plants," has been proposed in Technical Specification Task Force (TSTF) Improved Standard Technical Specification Change Traveler TSTF-486 to incorporate the allowance to use WCAP-16011-P-A. The traveler was submitted for Nuclear Regulatory Commission (NRC) approval in June 2005.

Basis for proposed no significant hazards consideration determination: As required by 10 CFR 50.91(a), the licensee has provided its analysis of the issue of no significant hazards consideration, which is presented below:

1. Does the proposed change involve a significant increase in the probability or consequences of an accident previously evaluated?

Response: No.

The MTC is not an initiator of any previously evaluated accidents. As an input into accident analyses, the MTC is used to predict plant behavior in the event of an accident. It was demonstrated in WCAP-16011-P-A that the modified MTC verification (i.e., measured RCS [reactor coolant system] boron concentration) is adequate to ensure that the MTC remains within the limits provided the STAR applicability requirements are met. It was also demonstrated in WCAP-16011-P-A that the elimination of the EOC [emergency operations center] MTC measurement is acceptable when the applicability requirements given in WCAP-16011-P-A are met and the result of the MTC determination performed prior to reaching a Rated Thermal Power equilibrium boron concentration of 800 ppm is within a tolerance of  $\pm 0.16 \times 10^{-4} \Delta k/k/^{\circ}F$  from the corresponding design value.

Therefore, the proposed change does not involve a significant increase in the probability or consequences of an accident previously evaluated.

2. Does the proposed change create the possibility of a new or different kind of accident from any accident previously evaluated?

Response: No.

The proposed change does not involve a physical alteration to the plant (i.e., no new or different type of structure, system, or component will be installed). The methods governing normal plant operations are not altered by the proposed change.

Therefore, the proposed change does not create the possibility of a new or different kind of accident from any previously evaluated.

3. Does the proposed change involve a significant reduction in a margin of safety?

Response: No.

The proposed change will not affect the margin of safety. The MTC limits are unaffected and an acceptable method will be used to demonstrate that MTC is within its limits.

Therefore, the proposed change does not involve a significant reduction in a margin of safety.

The NRC staff has reviewed the licensee's analysis and, based on this review, it appears that the three standards of 10 CFR 50.92(c) are satisfied. Therefore, the NRC

staff proposes to determine that the amendment request involves no significant hazards consideration.

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NRC Branch Chief: David Terao

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