

50-313/368



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

October 25, 1995

Mr. Jerry W. Yelverton
Vice President, Operations ANO
Entergy Operations, Inc.
Route 3 Box 137G
Russellville, AR 72801

SUBJECT: ARKANSAS NUCLEAR ONE, UNITS 1 AND 2, EMERGENCY COOLING POND
DESIGN

Dear Mr. Yelverton:

The Arkansas Nuclear One, Units 1 and 2 (ANO-1 and ANO-2) emergency cooling pond design requirements were reviewed by Nuclear Regulatory Commission (NRC) in the course of processing several recent technical specification amendment requests. These reviews identified apparent discrepancies in the design basis of the cooling pond and the current regulatory requirements as described by the Standard Review Plan and Regulatory Guide 1.27. Several of the issues have been discussed by your staff during meetings and related telephone conversations. However, to enable us to evaluate the adequacy of your emergency cooling pond design and to document design related information, please summarize the design basis of the ANO-1 and ANO-2 emergency cooling pond and specifically address the following issues:

1. The ANO-1 and ANO-2 Safety Analysis Reports include sections that describe the emergency cooling pond and related reactor building/containment cooling requirements after a postulated loss-of-coolant accident (LOCA). Are these sections updated and correct? Apparent discrepancies include a post-LOCA emergency cooling pond temperature of 129.5 degrees F. while the assumed post-LOCA service water temperature at ANO-1 is 95 degrees F. and at ANO-2 the temperature is 120 degrees F.
2. Is equipment in the reactor building/containment environmentally qualified to withstand the post-LOCA conditions when the emergency cooling pond is used for cooling?
3. Is the emergency cooling pond and related equipment in ANO-1 and ANO-2 consistent with Regulatory Guide 1.27 requirements?
4. What are the differences in emergency cooling pond related designs between ANO-1 and ANO-2 (address single failure issues)?
5. Did the design basis of the cooling pond and related equipment, specifically the ANO-1 reactor building coolers, change since the unit was licensed?

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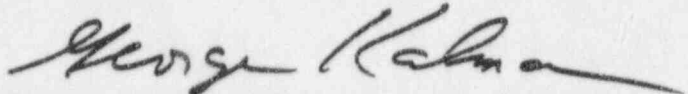
J. Yelverton

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6. Is there sufficient capacity in the cooling pond to respond to postulated accident requirements (address make-up requirement)?

Feel free to address other emergency pond related issues to document design basis.

Sincerely,

A handwritten signature in cursive script, appearing to read "George Kalman".

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

Docket Nos. 50-313 and 50-368

cc: See next page

Mr. Jerry W. Yelverton
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Arkansas Nuclear One, Units 1 & 2

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Russellville, AR 72801

J. Yelverton

-2-

6. Is there sufficient capacity in the cooling pond to respond to postulated accident requirements (address make-up requirement)?

Feel free to address other emergency pond related issues to document design basis.

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 Nos. 50-313 and 50-368

cc: See next page

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