

June 1, 2001

MEMORANDUM TO: File

FROM: Thomas W. Alexion, Project Manager, Section 1 */RAI/*
Project Directorate IV
Division of Licensing Project Management

SUBJECT: ARKANSAS NUCLEAR ONE, UNIT 2 RE: PROPOSED LICENSE
AMENDMENT ON EXTENDED POWER UPRATE (TAC NO. MB0789)

The U. S. Nuclear Regulatory Commission (NRC) staff has had discussions with Entergy Operations, Inc., the licensee, on its December 19, 2000, "Application for License Amendment to Increase Authorized Power Level." The requested power level increase is 7.5%.

In order to facilitate these discussions, the NRC provided the licensee with a preliminary request for additional information (RAI) on testing. This RAI does not represent final NRC positions and it may get revised as a result of discussions with the licensee. The purpose of this memorandum is to place the attachment in the Public Document Room.

Docket No. 50-368

Attachment: As stated

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DATE	05/31/01	05/31/01

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Request for Additional Information on
Testing
Extended Power Uprate License Amendment Application
Arkansas Nuclear One, Unit 2 (ANO-2)

1. According to WCAP-10263, "A Review Plan For Upgrading the Licensed Power of a Pressurized Water Reactor Power Plant," Section 3.3.1.k:

Plant Testing - Numerous qualification and performance tests were completed for the initial startup to assure that all systems/components of the BOP [balance of plant] and NSSS [nuclear steam supply system] are in compliance with the design and licensing bases for the unit. These tests also establish the operating margins of the plant systems. It will be necessary to verify that the performance of any system/component modifications are in compliance with the requirements of the uprating and the licensing bases. The recommended test program for NSSS and interfacing BOP systems would be developed on a plant specific basis, depending upon the magnitude of hardware modifications and the magnitude of the uprating.

Please send us your power uprate testing program (e.g. power ascension test program for Cycle 15 and 16). Section 9.11 of the application does not contain enough testing details for the NRC staff to determine the adequacy of the power uprate testing program. Regulatory Guide 1.68, "Initial Test Programs for Water-Cooled Nuclear Power Plants," Revision 2, August 1978, provides guidelines for a testing program. However, Regulatory Guide 1.68 is not a requirement.

2. Will the power increases beyond the previous rating be in increments of 5% (or less)? Will steady-state operating data be taken and evaluated at each increment?
3. Will steady-state data be taken at points from 90% up to the previous rated thermal power so that operating performance parameters can be projected for uprated power before the previous power rating is exceeded?
4. Will the control system tests be made at the previous rated power condition and at each 5% power increment to show acceptable adjustment and operational capability?
5. Will the same performance criteria be used as in the original power ascension tests for the control systems?