

June 5, 2001

MEMORANDUM TO: File

FROM: Thomas W. Alexion, Project Manager, Section 1 /RA/  
Project Directorate IV & Decommissioning  
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 pressure/temperature curves. 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

June 5, 2001

MEMORANDUM TO: File

FROM: Thomas W. Alexion, Project Manager, Section 1 /RA/  
Project Directorate IV & Decommissioning  
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 pressure/temperature curves. 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

DISTRIBUTION:  
PUBLIC  
PDIV-1 RF

Accession No.: ML011570595

OFFICE	PDIV-1/PM	PDIV-1/LA
NAME	TAlexion	DJohnson
DATE	06/04/01	06/05/01

OFFICIAL RECORD COPY

Request for Additional Information on  
Pressure/Temperature (P/T) Curves  
Extended Power Uprate License Amendment Application  
Arkansas Nuclear One, Unit 2

On May 31, 2001, the staff held a conference call with the licensee regarding the P/T curves, the change of the applicability period (from 21 to 17 effective full power years (EFPYs)), the expected results of the latest surveillance capsule, and the implications of the 7.5% power uprate for the P/T curves. As discussed in the conference call, the staff needs the following information to continue the power uprate review:

1. Identify the change of the beltline controlling element, and the associated chemistry and fluence factors.
2. Describe the proposed time-line of events for the revision of the period of applicability for Technical Specification Figures 3.4-2A, 3.4-2B and 3.4-2C, and the expected revisions to be made when the surveillance capsule results become available.
3. Describe your calculation of the fluence (in terms of actual fluence and flux values for energies greater than 1.0 million electron volts ( $E > 1.0 \text{ MeV}$ )) for the controlling element and the conservatisms built into your calculation which justify operation to 17 EFPYs. This period of operation extends into the next cycle (Cycle 16) at your proposed elevated power operation; therefore, please define the expected period at elevated power operation and the expected flux to the controlling element.