

May 23, 2001

MEMORANDUM TO: File

FROM: Thomas W. Alexion, Project Manager */RAI/*
Project Directorate IV, Section 1
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 radiological dose assessment. 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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OFFICE	PDIV-1/PM	PDIV-1/LA	SPSB/(A)SC	PDIV-1/SC
NAME	TAlexion	DJohnson	MCaruso	RGramm
DATE	05/22/01	5/22/01	05/22/01	5/23/01

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

1. Please provide the calculations for the four events with dose increases (loss-of-coolant accident, steam generator tube rupture, control-element-assembly ejection, and fuel handling accident).
2. For some events, you assume a value for unfiltered inleakage into the control room of 10 cubic feet per minute (cfm). For others, you assume 5000 cfm. Please update your analyses to assume the same unfiltered inleakage for all events, with a basis for the unfiltered inleakage assumed, or justify how you can assume different inleakage values for different events.
3. There appears to be an inconsistency in the value for containment free volume in Tables 7.1.3-1 and 7.3.10-1. In addition, Table 7.3.10-1 provides values for the initial sprayed and unsprayed fraction and volumes. Based upon the values for containment volume and the sprayed and unsprayed fractions, calculating the sprayed and unsprayed volumes does not result in the sprayed and unsprayed volumes in Table 7.3.10-1. Clarification needs to be provided as which numbers are appropriate for the sprayed and unsprayed volumes.
4. In Table 7.3.10-1, the leakage rate from passive component failure is 5 gallons-per-minute (gpm). Please provide a basis for the 5 gpm.