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DOC DATE: 02/22/78  
DATE RCVD: 02/27/78

DOCTYPE: LETTER NOTARIZED: NO

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SUBJECT:  
RESPONSE TO NRC'S LTR DTD 02/02/78... FURNISHING INFO CONCERNING THE  
REACTOR CAVITY ANNULUS SEAL RING AND BIOLOGICAL SHIELDING.

PLANT NAME: ARKANSAS - UNIT 1

REVIEWER INITIAL: XJM  
DISTRIBUTOR INITIAL:

\*\*\*\*\* DISTRIBUTION OF THIS MATERIAL IS AS FOLLOWS \*\*\*\*\*

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(DISTRIBUTION CODE A001)

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HELPING BUILD ARKANSAS

ARKANSAS POWER & LIGHT COMPANY

P.O. BOX 551 LITTLE ROCK, ARKANSAS 72203 • (501) 371-4000

February 22, 1978

1-028-7

Director of Nuclear Reactor Regulation  
ATTN: Mr. Victor Stello, Director  
Division of Operating Reactors  
U. S. Nuclear Regulatory Commission  
Washington, D. C. 20555



Subject: Arkansas Power & Light Company  
Arkansas Nuclear One-Unit 1  
Docket No. 50-313  
License No. DPR-51  
Reactor Cavity Annulus Seal Ring  
and Biological Shielding  
(File: 1510, 1160)

Gentlemen:

By letter dated February 2, 1978, we were requested to supply within 20 days certain information concerning the above captioned subject as it pertained to Arkansas Nuclear One-Unit 1 (ANO-1). This response contains that requested information.

During normal operation, the cavity annulus seal ring is lifted approximately three (3) feet above the refueling canal floor and the biological shielding is installed in the reactor cavity annulus. The concrete biological shielding blocks were designed to withstand vertical pressures of 250 psi and are therefore compatible with predicted LOCA pressures in the reactor cavity (ANO-1 FSAR Section 5.2.1). An analysis is currently being performed to determine what effects the indirect reactor cavity pressures would have on the suspended seal ring. We expect to be able to provide you with the information by March 3, 1978.

Since ANO-1 is presently shut down for refueling, we offer no justification to support continued operation at this time. We will provide the required justification, if necessary, concurrent with our next submittal.

Very truly yours,

Daniel H. Williams  
Manager, Licensing

A001  
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1/0

DHW:DGM:dr

TAX PAYING, INVESTOR OWNED



MEMBER MIDDLE SOUTH UTILITIES SYSTEM