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Docket No. 50-313

FEB 4 1977

Arkansas Power & Light Company
ATTN: Mr. J. D. Phillips
Senior Vice President
Production, Transmission
and Engineering
Sixth and Pine Streets
Pine Bluff, Arkansas 71601

Gentlemen:

RE: ARKANSAS NUCLEAR ONE - UNIT NO. 1 (ANO-1)

We are continuing review of your December 1, 1976 reload analysis for ANO-1 and have determined that the additional information described in the attachment is required. This request, which was previously telecopied to you on January 25, 1977, is in addition to the information requested by our letter dated January 21, 1977.

In order that we may meet our review schedule, we request that your response to this request reach the NRC no later than February 12, 1977.

Sincerely,

Original signed by
Dennis L. Ziemann

Dennis L. Ziemann, Chief
Operating Reactors Branch #2
Division of Operating Reactors

Enclosure:
Request for Additional
Information

cc w/enclosure:
See next page

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| OFFICE ➤ | DOR:ORB #2 | DOR:ORB #2 | | | | |
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| SURNAME ➤ | RPSnaider:ro | DLZiemann | | | | |
| DATE ➤ | 2/3/77 | 2/4/77 | | 8004210655 | | |

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ARKANSAS POWER & LIGHT COMPANY

ARKANSAS NUCLEAR ONE - UNIT NO. 1 (ANO-1)

DOCKET NO. 50-313

REQUEST FOR ADDITIONAL INFORMATION

A. Supply piping physicals (or spool drawings) which indicate Safety Injection System (as-built) configuration and potential for submergence under LOCA conditions. This information is required in order to complete the Appendix K review.

B. The following questions refer to your letter 1-017-3 of January 13, 1977, which incorporated the Babcock and Wilcox proposed Rod Bow Model into parameter modifications required for Cycle 2 operation.

1. With respect to fuel rod densification:

(a) Provide the assumptions used for the fuel rod densification analysis.

(b) Were the analyses the same as that of the Fuel Densification Report, Reference 6 of BAW 1433?

(c) Was the 140.49 inch densified fuel rod length assumed for all rods in the core or were different densified lengths applied to the appropriate batch locations?

2. With respect to fuel rod bow:

(a) Discuss the conservatisms applied in the rod bow penalty evaluation.

(b) Was the "maximum three-cycle rod bow DNBR penalty" applied for the analysis of "Pressure-Temperature Limit Evaluation" (page 6-3 of BAW 1433)?

(c) What are the predicted burnups for EOC's 2 and 3?

(d) Provide a list of the fuel rod bow conservatisms and credits as discussed in our December 30, 1976 letter to you. Providing quantitative values for each, discuss the credits which were previously taken, which are currently applied, and which are yet to be taken for each of the thermal margins of our letter.