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July 15, 1982

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Director of Nuclear Reactor Regulation
ATTN: Mr. J. F. Stolz, Chief
Operating Reactors Branch #4
Division of Licensing
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

SUBJECT: Arkansas Nuclear One - Unit 1
Docket No. 50-313
License No. DPR-51
Technical Specification Change
Requests to Extend Cycle 5

Gentlemen:

Attached are six Technical Specification figure change requests for your review and approval. These changes will allow the extension of Cycle 5 from 435 ± 10 Effective Full Power Days (EFPD) to 455 ± 10 EFPD and to operate from 400 ± 10 EFPD to the end of cycle (EOC) with the Axial Power Shaping Rods (APSR) fully inserted. These requests also necessitate changes in the Cycle 5 Reload Report which are included herein for your review as "Arkansas Nuclear One, Unit 1 - Cycle 5 Reload Report," Revision 2. The original ANO-1 Cycle 5 Reload Report and attendant Technical Specification changes were submitted by AP&L's letter dated January 30, 1981, and revisions thereto were submitted on February 26, 1981.

The cycle extension is necessary due to the proximity of the ANO-1 and ANO-2 scheduled refueling outages. The extension will allow ANO-1 to continue operation for an additional 20 EFPD and thus further separate the refueling outages. Our review and the analyses presented in Revision 2 of the Reload Report indicate that no safety concerns are associated with this change.

Operation to the EOC with the APSRs fully inserted is a precautionary measure designed to avoid delays during preparation for refueling. Excessive friction due to minor warpage of the APSRs near the end of their core-resident life could cause difficulties in accomplishing full

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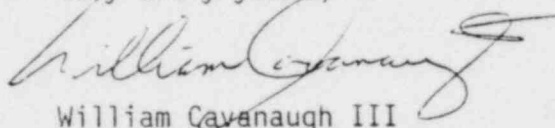
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insertion in preparation for fueling. Although there are no data to suggest that significant APSR/Guide Tube friction is present in ANO Unit 1, operation with the APSRs fully inserted is the appropriate anticipatory action. All APSRs are to be replaced at the end of Cycle 5.

Since the APSRs are not safety or regulating rod groups-related nor do they insert automatically upon a reactor trip, the proposed mode of operation will have no safety related consequences. In addition, the APSR position limits have been reanalyzed for the cycle extension period, and the permissible operating region is presented in the enclosed, revised Technical Specification Figure 3.5.2-4D.

Pursuant to the requirements of 10CFR170.22 we have determined these requests to be a Class III amendment. Accordingly, a check in the amount of \$4,000.00 is remitted.

Very truly yours,

A handwritten signature in dark ink, appearing to read "William Cavanaugh III", with a stylized flourish at the end.

William Cavanaugh III

WC:JC:mb