



ARKANSAS POWER & LIGHT COMPANY

FIRST COMMERCIAL BUILDING/P.O. BOX 551/LITTLE ROCK, ARKANSAS 72203/(501) 371-7901

April 25, 1986

T. GENE CAMPBELL  
Vice President  
Nuclear Operations

2CANØ486Ø2

Mr. George W. Knighton, Director  
PWR Project Directorate No. 7  
Division of PWR Licensing - B  
U. S. Nuclear Regulatory Commission  
Washington, DC 20555

SUBJECT: Arkansas Nuclear One - Unit 2  
Docket No. 50-368  
License No. NPF-6  
Technical Specifications Change Request

Dear Mr. Knighton:

Per 10CFR50.90 attached are proposed changes to the ANO-2 Technical Specifications. The requested change to the Moderator Temperature Coefficient (MTC) is required to support Cycle 6 operation. This change is necessary to accommodate the longer cycle length planned for Cycle 6. This request was discussed in a conference call from my staff on March 7, 1986 with you, the ANO-2 NRR Project Manager and other members of your staff. The appropriate information and analysis to support this requested amendment are provided for your review. AP&L plans to perform the review and safety evaluation of the Cycle 6 Reload Analysis Report, as for previous cycles, per the requirements of 10CFR50.59.

The end of core life fuel configuration associated with Cycle 6 operation will result in a slightly more negative MTC than is currently allowed by the Technical Specifications. Therefore, an amendment to Technical Specification 3.1.1.4, "Moderator Temperature Coefficient", is necessary to reflect this change. A change to Surveillance Requirement 4.1.1.4.2 is proposed to allow for greater operational flexibility for the performance of MTC measurements. AP&L has also identified a necessary amendment to Technical Specifications 3.1.2.8 and 3.5.4, involving the Refueling Water Tank (RWT) maximum solution temperature, which is proposed to be increased to alleviate an operational concern due to solar heating of the tank during the summer months. Additionally, included in this amendment request is a proposed modification to the required shutdown margin for operating Modes 1 through 4. This change is being requested to accommodate future cycles.

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April 25, 1986

Appropriate revisions to the ANO-2 Technical Specifications have been prepared for your review and approval. Descriptions of these proposed revisions are attached. The change associated with the MTC is necessary for Cycle 6 operation of ANO-2, currently scheduled for the end of July 1986; therefore, AP&L requests that NRC review and approval be performed in an expeditious manner. We request that the proposed Technical Specifications be effective upon the completion of the upcoming ANO-2 refueling outage before initial startup after the refueling.

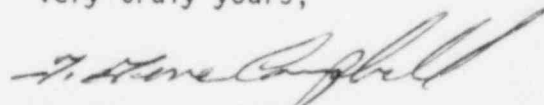
A similar MTC change has been approved for Cycle 3 operation of Southern California Edison's (SCE) San Onofre Nuclear Generating Station Units 2 and 3 (SONGS-2 and 3) as part of their Cycle 3 Reload Analysis Report. AP&L previously submitted Technical Specifications change requests on September 16, 1985 (2CAN098504), relating to CPC Addressable Constants, and on February 27, 1986 (2CAN028601), relating to the implementation of the CPC Improvement Program. Approval of these changes is necessary for Cycle 6 operation.

The methodology described in Combustion Engineering (CE) report CENPD-269-P, Revision 1-P, July 1984 was concluded as acceptable for referencing in licensing actions involving extended burn-up designs by NRC letter from Edward J. Butcher to Baltimore Gas & Electric Company (BG&E) dated October 10, 1985. This methodology also applies to the extended fuel cycle design for ANO-2.

In accordance with 10CFR50.92(c), the attached changes have been determined to have no significant hazards considerations. To satisfy the Sholly provisions, documents providing the bases for this determination are attached. Also, a copy of this amendment package has been sent to Mr. E. Frank Wilson, Director, Division of Environmental Health Protection, State Department of Health.

Pursuant to 10CFR170.12(c) we are including a check for the amount of \$150 as an application fee.

Very truly yours,



T. Gene Campbell  
Vice President,  
Nuclear Operations

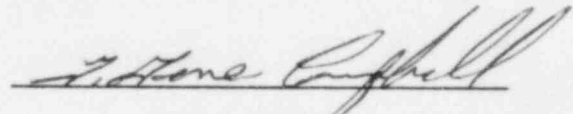
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Attachments

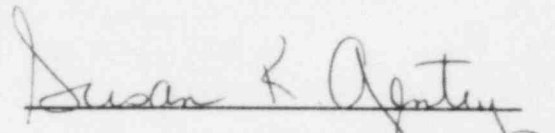
cc: Mr. E. Frank Wilson, Director  
Division of Environmental Health Protection  
State Department of Health  
4815 West Markham Street  
Little Rock, AR 72201

STATE OF ARKANSAS )  
                          )  
COUNTY OF PULASKI )           SS

I, T. Gene Campbell, being duly sworn, subscribe to and say that I am Vice President, Nuclear Operations, for Arkansas Power & Light Company; that I have full authority to execute this oath; that I have read the document numbered 2CANØ486Ø2 and know the contents thereof; and that to the best of my knowledge, information and belief the statements in it are true.

  
T. Gene Campbell

SUBSCRIBED AND SWORN TO before me, a Notary Public in and for the County and State above named, this 30 day of April, 1986.

  
Notary Public

My Commission Expires:

May 7, 1993