



ARKANSAS POWER & LIGHT COMPANY
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June 10, 1983

1CAN068308

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

SUBJECT: Arkansas Nuclear One - Unit 1
Docket No. 50-313
License No. DPR-51
NUREG-0630 - Imposition of
Interim LOCA Limit Penalties

Gentlemen:

Telephone conversations between the NRC staff and AP&L personnel on June 7, 1983, and June 8, 1983, were held to discuss AP&L's recent letter (1CAN068301) concerning impact of NUREG-0630.

In accordance with NRC direction, this letter is provided to document AP&L's commitment to administratively impose temporary restrictions on plant operating limits. The new limits reflect the results of the NUREG-0630 bounding analysis which indicated potential LOCA kw/ft penalties at the 2, 4 and 6 ft. core elevations.

Although AP&L does not agree that imposition of the penalties is warranted at this time, we have agreed to take the following steps to alleviate the staff's concerns:

1. A revised power imbalance envelope will be utilized which reflects LOCA limits of 13.5, 16.1, and 17.5 kw/ft at the 2, 4, and 6 ft. elevations respectively. This represents additional penalties beyond current Technical Specification requirements of 1, .5, and .5 kw/ft at the 2, 4, and 6 ft. elevations, and is more conservative than the penalties suggested by the NUREG-0630 bounding analysis.
2. The new restrictions will apply through 30 effective full power days (EFPD). A copy of the imbalance curve is attached for your information.

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MEMBER MIDDLE SOUTH UTILITIES SYSTEM

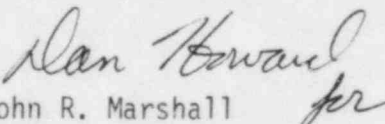
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3. The administrative actions which will be taken to implement the new restrictions are as follows: An internal memorandum from the Superintendent of Plant Analysis to the Manager of Operations has been submitted which provides instructions to plant operators to implement the new power imbalance envelope (based on the NUREG-0630 penalties) as a limiting condition for operation (LCO) in lieu of the corresponding Technical Specification curve. The plant operating procedures have been changed to implement the new axial imbalance limits. Those measures were implemented at approximately 7:00 p.m. on June 7, 1983, and will continue through 30 EFPD.

AP&L's position is that no changes to plant operating limits are justified because the NUREG-0630 analysis was "bounding" only and in any case the penalties are offset by the FLECSET compensating model submitted by our letter dated June 8, 1983 (1CAN068301). We request that NRC review the FLECSET data expeditiously so that the issue of NUREG-0630 related penalties can be closed as soon as possible.

Very truly yours,


John R. Marshall
Manager, Licensing

JRM:CT:s1

Attachment

ATTACHMENT TO 1CAN068308

Operational Power Imbalance Envelope for
Operation from 0 to 30 +10/-0 EFPD -
ANO-1, Cycle 6

