



ARKANSAS POWER & LIGHT COMPANY

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August 5, 1985

ICAN088502

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 - Revised Bounding Assessment

Gentlemen:

In previous correspondence AP&L submitted the results of work performed through the B&W Owners Group to evaluate the impact of Nureg 0630. These results indicated a .5 kw/ft penalty at the 2 ft elevation for the LOCA kw/ft limits. B&W's evaluation assigned the same penalty at the 4 and 6 ft. elevations as well.

In responding to recent questions concerning the use of the new FLECSET heat transfer correlation as a compensating model to offset those penalties, B&W performed additional calculations for the 4 and 6 ft. core elevations. Rather than confirming their previous application of the 2 ft. penalty, B&W determined that the impact of the Nureg 0630 models were more severe than previously predicted.

The changes in LOCA kw/ft (BOL) units are summarized below.

Table with 3 columns: Core Elevation(ft), Original kw/ft limits with Nureg 0630, Revised kw/ft limits with Nureg 0630. Rows for elevations 2, 4, 6, 8, 10.

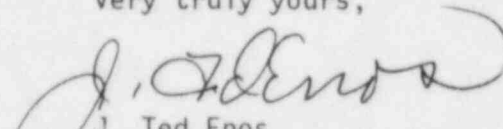
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These new kw/ft limits have been examined by B&W for their impact on Technical Specification Operating Limits and alarm setpoints for ANO - Cycle 7 fuel cycle. The investigation confirmed that the existing operating limits are not affected by the changes at the 4 and 6 ft. elevations. Therefore no changes to the present tech spec operating limits are required. However, the bases for section 3.5.2 (specifically Figure 3.5.2.4) will require revision. AP&L will submit a proposed change for this item shortly.

Very truly yours,



J. Ted Enos
Manager, Licensing

JTE:CT:ds