



ARKANSAS POWER & LIGHT COMPANY

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February 11, 1985

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Director of Nuclear Reactor Regulation
ATTN: Mr. James R. Miller, Chief
Operating Reactors Branch #3
Division of Licensing
U. S. Nuclear Regulatory Commission
Washington, DC 20555

SUBJECT: Arkansas Nuclear One - Unit 2
Docket No. 50-368
License No. NPF-6
Additional Information on
Potter & Brumfield Relays - IE Bulletin 84-02

Gentlemen:

In our July 20, 1984 (ØCANØ784Ø9) response to IE Bulletin 84-02, AP&L informed you of problems experienced with Potter & Brumfield (P&B) Relays in the constantly energized state. During the third refueling outage these relays were replaced with P&B relays of like kind as testing and inspection indicated the P&B relays would perform reliably for at least one cycle of operation. At that time, an engineering evaluation to determine a more permanent solution was begun.

As a solution, replacement of the P&B relays with new relays that are not prone to the out-gassing of the coil varnish and the resulting failure was considered. However, no comparable relays with a significantly greater life expectancy could be found. During our evaluation, Potter & Brumfield expressed a desire to develop an epoxy impregnated coil for the existing relay. Based on our evaluation of the available options it was determined that pursuing the P&B option was the best alternative.

Based on the P&B original schedule for development and testing of the epoxy coils, the new relays were planned to be installed during the fourth refueling outage. However, due to delays in the development and testing of the new coils, the improved relays will not be available to be installed during the upcoming fourth refueling outage. Therefore, during the upcoming

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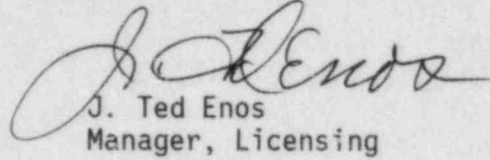
Mr. James R. Miller

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outage AP&L intends to once again replace the P&B relays in like kind. This replacement will insure continued reliability and operability of these relays until the fifth refueling outage. At that time the new relays will be available for installation as the permanent resolution of this problem.

Very truly yours,



J. Ted Enos
Manager, Licensing

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