



ARKANSAS POWER & LIGHT COMPANY

POST OFFICE BOX 551 LITTLE ROCK, ARKANSAS 72203 (501) 371-4000

May 26, 1983

2CAN058308

Director of Nuclear Reactor Regulation
ATTN: Mr. Robert A. Clark, 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
Environmental Qualification -
Category IIB Items Supplemental Response

Gentlemen:

In response to verbal requests for information by your staff, the following is provided to supplement information previously submitted (see AP&L letter to NRC 2CAN048311 dated April 29, 1983) concerning environmental qualification of "Category II.B" items.

Concerning the qualification of Rotork operator 2CV-5038-1 (worksheet B133), the actuator is not exposed to an elevated (harsh) temperature during a LOCA. The temperature indicated on the worksheet represents the peak temperature from an HELB; however, the LOCA is the only accident for which it is required to function.

Regarding the qualification of Rosemount transmitters, AP&L has determined the following pertaining to "aging" effects upon the component. AP&L has on file an Aging analysis which demonstrates that Rosemount 1153 "series A" transmitters are suitable for a 40-year life with appropriate maintenance to perform periodic replacement of housing o-rings and circuit boards. In addition, based on telephone conversations with the vendor, we understand that Rosemount test report No. 108025 Revision 2 will support a qualified life of 15 years for these transmitters assuming a conservative average containment temperature of 120° F. This report is also based on a replacement of the circuit boards at 10 year intervals. Although this report covers "series B" transmitters, the results are considered to be applicable to "series A" transmitters by virtue of similarity. Based on the above we feel that "aging" of the subject transmitters is not of concern for the interim

8306020466 830526
PDR ADOCK 05000368
PDR

A049
1/0

May 26, 1983

period until the final implementation date of 10 CFR 50.49 (for ANO-2 the implementation date is the third refueling outage scheduled for late 1983). We are in the process of obtaining the referenced Rosemount test report for review and will factor this information into development of an appropriate maintenance program prior to the implementation date of 10 CFR 50.49.

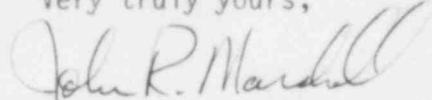
In response to staff questions concerning accuracy of the transmitters, we provide the following. Wyle test report #26304 was supplemented by an evaluation of test acceptance criteria by Bechtel for AP&L to specifically address accuracy considerations. The error summary from the report supplement is shown below for the Rosemount transmitters.

<u>Function</u>	<u>Acceptance Criteria</u>	<u>Actual Performance</u>
Containment Pressure	+ no limit - 2.3% F.S.	+ 1.51% F.S. - 1.59% F.S.
Pressurizer and SG Pressure	+ 3.16% F.S. - no limit	+ 1.51% F.S. - 6.65% F.S.
SG Level	+ 3.7% F.S. - no limit	+ 1.51% F.S. - 6.65% F.S.
Post Accident Monitoring	+ 20% F.S. - 20% F.S.	+ 18.18% F.S. - 7.01% F.S.

As is evident, the Rosemount transmitter satisfied all acceptance criteria.

The final item concerned the connectors used during the test compared to those installed at the plant. As indicated in our April 29 letter (2CAN048311), we have previously responded to this item via letter dated October 16, 1978 (2CAN107808). The connectors (Conax) tested with the transmitters under test report No. 26304 are the same as those installed with the transmitters at ANO-2.

Very truly yours,



John R. Marshall
Manager, Licensing

JRM:CT:s1