



ARKANSAS POWER & LIGHT COMPANY
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April 18, 1984

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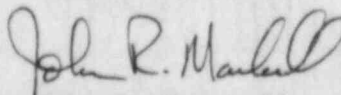
Director of Nuclear Reactor Regulation
ATTN: Mr. J. F. Stolz, Chief
Operating Reactors Branch #4
Division of Licensing
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

SUBJECT: Arkansas Nuclear One - Unit 1
Docket No. 50-313
License No. DPR-51
NUREG 0737 Item II.E.1.1,
ANO-1 EFW Safety Evaluation

Gentlemen:

In AP&L's letter dated November 17, 1983 (1CAN118306), we requested that you evaluate the need for tornado protection of a condensate storage tank proposed as a potential solution to your Recommendation GL-4. We have received no response to this request as yet. However, in order that the design and construction of such a condensate storage tank can be performed in a timely manner, a parallel design effort is underway. This design involves the use of partial tornado protection. In a March 26, 1984 conference call with members of your staff it was agreed that partial protection meant protection of a 30 minute supply of EFW suction for ANO-1. AP&L has calculated this volume to be 21,300 gallons of water. This volume is based upon 14,000 gallons of water to remove the decay heat energy output during the first 30 minutes after a reactor trip and an additional 7,300 gallons of water to account for inventory increases in the steam generators, as allowed by the emergency feedwater initiation and control system. It should be noted that this volume of water is conservative in relation to the minimum required 500 gpm flow specified in section 10.4.8 of the FSAR. AP&L is continuing the evaluation of a seismically qualified condensate storage tank with partial tornado protection as described above. However, in order for this evaluation to be completed we require written concurrence that this volume of protected water is sufficient to resolve concern GL-4. We request that this concurrence be provided as soon as possible.

Very truly yours,


John R. Marshall
Manager, Licensing

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