



September 14, 1994

1CAN099403

U. S. Nuclear Regulatory Commission
Document Control Desk
Mail Station P1-137
Washington, DC 20555

Subject: Arkansas Nuclear One - Unit 1
Docket No. 50-313
License No. DPR-51
Accident Precursor Analysis

Gentlemen:

This letter documents ANO's review of the NRC staff's Accident Precursor Analysis of ANO-1 Licensee Event Report 50-313/93-003-00.

ANO identified that there were two basic differences between the NRC staff's analysis of the event and the ANO analysis. The staff assumed that one Low Pressure Injection (LPI) pump would be unavailable for 3048 hours and that both LPI pumps would be unavailable for 14 hours. However, ANO considered only that one pump would be unavailable for 3048 hours. ANO did not consider both pumps to be unavailable for 14 hours based on the following: (a) The "A" LPI pump was assumed to remain functional during the injection phase and for two hours on recirculation. (b) The operator would have advance warning of the imminent failure of the "A" pump. (c) Under accident conditions, the "B" LPI pump could be returned to an operable status in a short period of time. Additionally, for the failure of one LPI pump for 3048 hours, the NRC staff assumed the operator non-recovery probability to be 0.43 while ANO conservatively evaluated it to be 0.25.

When these two differences are accounted for, the NRC staff and ANO analyses produce approximately the same calculated conditional core damage frequency.

220003

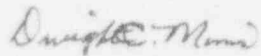
9409220140 940914
PDR ADOCK 05000313
S PDR

IE22 1/0

During a telephone conversation with members of the ANO staff on August 26, 1994, Mr. Patrick O' Reilly of your staff asked how long it would take to return the "B" LPI pump to service considering the maintenance that was performed on it in August of 1993. Cognizant maintenance personnel indicated that, considering the work that was performed, it would take no more than 1 1/2 to 2 hours to return the pump to an operable status.

If you have any further questions regarding this subject, please call me at 501-858-4601.

Very truly yours,

A handwritten signature in cursive script, appearing to read "Dwight C. Mims".

Dwight C. Mims
Director, Licensing

DCM/rhs

cc: Mr. Leonard J. Callan
Regional Administrator
U. S. Nuclear Regulatory Commission
Region IV
611 Ryan Plaza Drive, Suite 400
Arlington, TX 76011-8064

NRC Senior Resident Inspector
Arkansas Nuclear One
1448 S. R. 333
Russellville, AR 72801

Mr. George Kalman
NRR Project Manager Region IV/ANO-1 & 2
U. S. Nuclear Regulatory Commission
NRR Mail Stop 13-H-3
One White Flint North
11555 Rockville Pike
Rockville, MD 20852