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Docket No. 50-368

Mr. William Cavanaugh, III
Senior Vice President, Energy
Supply Department
Arkansas Power & Light Company
P. O. Box 551
Little Rock, Arkansas 72203

Dear Mr. Cavanaugh:

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION - TMI ITEM II.K.3.25, POWER TO PUMP SEALS

We have reviewed your response dated June 28, 1982 regarding TMI Item II.K.3.25, Power to Pump Seals, and find that additional information is necessary in order for us to complete our review. Enclosed is our Request for Additional Information (RAI) regarding this matter which reiterates the staff's position and requests that you identify areas of conformance or deviation from the stated position and provide detailed supporting information regarding the design and operation of the affected cooling systems. Please respond to the enclosed RAI within 60 days of receipt of this letter.

The reporting and/or recordkeeping requirements contained in this letter affect fewer than 10 respondents; therefore, OMB clearance under P. L. 96-511 is not required.

Sincerely,

Original signed by
Robert A. Clark

Robert A. Clark, Chief
Operating Reactors Branch #3
Division of Licensing

Enclosure:
As stated

cc: See next page

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OFFICE	ORB#3:DL	ORB#3:DL	ORB#3:DL			
SURNAME	PMKreutzer	JStevens/pn	RAClark			
DATE	11/4/82	11/4/82	11/4/82			

cc:

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Region VI Office
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S. L. Smith, Operations Officer
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Russellville, Arkansas 72801

REQUEST FOR ADDITIONAL INFORMATION

TMI ITEM II.K.3.25, POWER TO PUMP SEALS

Below is the staff's position on TMI Item II.K.3.25, Power to Pump Seals. For each item please identify whether or not your plant's design conforms to or deviates from the stated position, In either case, we require that specific design and operating information be supplied in support of your response:

1. The cooling water supply should be adequate to provide seal cooling and prevent seal failure for a period of two hours during a loss of offsite power event.

2. RCP seals should be designed such that they are cooled by means of two independent supplies, e.g. seal injection (charging pumps) and thermal barrier heat exchangers (Reactor Building Closed Cooling Water (RBCCW) System). If plant design consists of only one cooling method, provide detailed design information to demonstrate that seal integrity is still maintained in the event of a loss-of-offsite power event.

3. It is currently our position that automatic loading of the cooling water pumps onto the emergency buses is desirable and should be incorporated. The cooling water pumps should be automatically (requiring no operator action) and sequentially loaded onto the diesel generators and automatically started.

   We recognize that a number of facilities currently employ manual, rather than automatic actions, to perform the above functions. In the event that your response deviates from the above position, provide detailed justification in support of the position that manual, rather than automatic action, is sufficient to assure RCP seal integrity. The system should be designed such that any required operator action complies with the draft ANSI-N660, "Time Response Design Criteria for Safety-Related Operator Actions", guidelines. Justify the acceptablity of the selected time for crediting operator actions. The response should provide conclusive verification that the integrity of the RCP seals will remain intact during the period of coolant deprivation through the time of coolant restoration, appropriately accounting for thermal shock to old seals as coolant is reinstated. If insufficient justification is provided, either additional analyses or applicable experimental data pertaining to pump seal integrity will be required.