

Distribution  
 Central File  
 NRC PDR  
 Local PDR  
 ORB#2 Rdg.  
 D. Eisenhut  
 J. Hegner  
 S. Norris  
 Gray File  
 P. Tam  
 B. Sheron

SEP 30 1982

MEMORANDUM FOR: ORPMs on Attached List  
 FROM: Joseph D. Hegner, Lead PM  
 II.K.3.25

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION - II.K.3.25

During June, 1982 you each received SERs for your plants on TMI Item II.K.3.25, Power to Pump Seals. Unfortunately, the SERs contained a substantial number of conditions, provisions, or other "requirements" due, primarily related to the scope of the review and the time constraints imposed on the technical reviewer. As a result, I requested each of you to take any action until I could resolve the matter with the technical review branch, RSB.

Based on recent discussions held with RSB during the quarterly review meetings, we agreed to take the following actions in order to close-out this item:

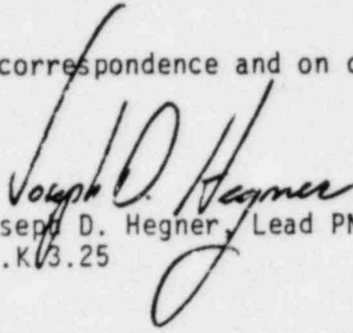
1. I have rewritten the SERs for your plants as Requestes for Additional Information (RAI). The RAI is enclosed, along with a draft transmittal letter. It reiterates the staff's position on this item and request licensees to identify those areas where they conform or deviate from the stated position. In either case, licensees are requested to provide sufficient detailed design and operating information to support their position.
2. Upon receipt of the licensee's response to the RAI, you should examine the response. If neither you nor the licensee identify any significant deviations, and you deem that an adequate basis exists to justify the licensee's position, you should issue the close-out letter that I provided to you in my June 22, 1982 status report on II.K.3.25. (See me if you need assistance in reviewing the licensee's response or a copy of the close-out letter). If significant deviations are identified either by you or the licensee, you should still close-out the generic TAC for your plant, create a new plant-specific TAC, and forward the licensee's response to RSB requesting a plant-specific review. RSB, as a result of the quarterly review meeting, agreed to review deviations from the staff position on a case basis.

8211060612 820930  
 PDR ADDCK 05000213  
 P PDR

*[Handwritten signature]*

OFFICE	DL:ORB#2	DL:ORB#2 JAH	DL:ORB#2				
SURNAME	S. Norris	J. Hegner:pr	DBVassallo				
DATE	9/28/82	9/29/82	9/29/82				

Please include me on distribution for all correspondence and on concurrence for final close-out actions.

  
Joseph D. Hegner, Lead PM  
II.K.3.25

Enclosures:

1. Sample Transmittal Letter
2. RAI
3. List of Affected Plants/PMS

cc: J. Guttman  
N. Lauben  
OR BC's  
ORAB



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D. C. 20555

Docket No.

(Licensee Address)

Dear Mr. .

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

We have reviewed your response dated (1) 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 (2) 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,

, Branch Chief  
Operating Reactors Branch No.

- (1) See Attached List for dates of licensee response
- (2) PM should determine response date based on licensee workload. Suggest 60 days is reasonable.

Add to distribution: J. Hegner  
T. Ippolito

## 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 acceptability 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.

PLANTS AFFECTED BY II.K.3.25 RAI

<u>TAC NO.</u>	<u>PLANT</u>	<u>PROJECT MANAGER</u>	<u>LICENSEE RESPONSE DATE</u>
48420	Haddam Neck <sup>213</sup>	Lyons	June 14, 1982
48421	Indian Point 2 <sup>272</sup>	Hannon	February 26, 1981
48422	Indian Point 3 <sup>286</sup>	Thoma	December 19, 1981
48426/48427	Point Beach 1/2 <sup>266</sup> <sup>301</sup>	Colburn	December 30, 1980
48430	Robinson 2 <sup>261</sup>	Requa	June 14, 1982
48442	ANO 2 <sup>368</sup>	Stevens/Trammell	June 28, 1982
48445	Fort Calhoun <sup>265</sup>	Tourigny	December 31, 1981
48447	Millstone 2 <sup>336</sup>	Conner	December 31, 1981