

Docket No.: 50-382

JUL 16 1985

Mr. R. S. Leddick  
Senior Vice President - Nuclear Operations  
Louisiana Power and Light Company  
317 Baronne St., Mail Unit 17  
New Orleans, Louisiana 70160

Dear Mr. Leddick:

SUBJECT: REACTOR COLANT SYSTEM PUMP TRIP

As you know, the NRC has been reviewing the post-LOCA status of reactor coolant pumps regarding trip versus no trip. This issue has been pursued via the CE Owners Group (CEOG).

AS our review nears its conclusion, we find one area, post-LOCA status of reactor coolant pump seal cooling, has been accorded plant-specific status by the CEOG. Accordingly, we request that you provide your written response to the enclosed questions.

We further request that you provide your response within thirty (30) days so that we may complete our review in a timely manner.

Sincerely,

George W. Knighton, Chief  
Licensing Branch No. 3  
Division of Licensing

Enclosure:  
As stated:

cc: See next page

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Local PDR

PRC System

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LB#3 Reading

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OELD, Attorney

ACRS (16)

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*GW*  
LB#3/DL  
GWKnighton  
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UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D. C. 20555

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Senior Vice President - Nuclear Operations  
Louisiana Power and Light Company  
317 Baronne St., Mail Unit 17  
New Orleans, Louisiana 70160

Dear Mr. Leddick:

SUBJECT: REACTOR COOLANT SYSTEM PUMP TRIP

As you know, the NRC has been reviewing the post-LOCA status of reactor coolant pumps regarding trip versus no trip. This issue has been pursued via the CE Owners Group (CEOG).

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Sincerely,

A handwritten signature in dark ink, appearing to read "H. Knighton GK", written over the typed name.

George W. Knighton, Chief  
Licensing Branch No. 3  
Division of Licensing

Enclosure:  
As stated

cc: See next page

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Louisiana Power & Light Company

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REQUEST FOR ADDITIONAL INFORMATION

CONCERNING

REACTOR COOLANT PUMP TRIP

In response to Generic Letter 83-10, CEN-268, "Justification of Trip Two/Leave Two Reactor Coolant Pump Trip Strategy During Transients," was provided by the CE Owners Group. The following paragraph is taken from CEN-268:

6.5 SERVICE WATER AVAILABILITY

RCP cooling water will be isolated at some plants upon a containment isolation actuation signal (CIAS). Continuous RCP operation under this condition may lead to potential RCP damage. Low RCP cooling flow alarms are available in the control room, and timely operator action could be employed to restore essential water service. Each utility should review the RCP cooling water service system requirements on a plant specific basis and make changes as necessary. (page 6-5)

This information was provided in response to a specific issue in Generic Letter 83-10, I.1(e):

"Transients and accidents which produce the same initial symptoms as a LOCA (i.e., depressurization of the reactor and actuation of engineered safety features) and result in containment isolation may result in the termination of systems essential for continued operation of the reactor

coolant pumps (i.e., component cooling water and/or seal injection water). It was the intent of TMI Action Plan Item II.E.4.2 to have licensees reevaluate essential and non-essential systems with respect to containment isolation. In particular, if a facility design terminates water services essential for RCP operation, then it should be assured that these water services can be restored in a timely manner once a non-LOCA situation is confirmed, and prevent seal damage or failure.

It should be confirmed that containment isolation with continued RCP operation will not lead to seal or pump damage or failure."

1. Does any containment isolation signal result in the termination of systems essential for continued operation of the reactor coolant pumps? If so, identify the signals and systems effected.
2. If essential water services are terminated, provide a description of the operator guidelines, training, and procedures in place (or to be implemented) which assure that these services are restored in a timely manner to prevent seal damage or failure, once a non-LOCA situation has been confirmed.
3. Provide confirmation, included the technical basis, that containment isolation with continued RCP operation will not lead to seal or pump damage or failure.

4. Since RCP trip will be required for LOCA events, assurance must be provided that RCP trip, when required, will occur. To address this concern, provide the following information:

- (a) Identify the components required to trip the RCPs. Include relays, power supplies and breakers. Address reliability and alternate trip methods.
- (b) If necessary, as a result of the location of any critical component, include the effects of adverse containment conditions on RCP trip reliability. Describe the basis for the adverse containment parameters selected.