

APR 17 1975

Docket Nos. 50-237  
50-249  
50-254  
50-265

for copy of enclosure  
see Docket 50-133

Commonwealth Edison Company  
ATTN: Mr. J. S. Abel  
Nuclear Licensing Administrator -  
Boiling Water Reactors  
Post Office Box 767  
Chicago, Illinois 60690

Gentlemen:

Pursuant to §50.54(f) of 10 CFR Part 50, the Nuclear Regulatory Commission (NRC) staff requires that certain information related to the design of the containment for your facility be submitted promptly to NRC for its review. This requirement results from recent developments associated with the large-scale BWR Mark III testing being conducted by the General Electric Company. These tests indicate that suppression pool hydrodynamic loads during a loss-of-coolant accident (LOCA) should be considered in the detailed design of components and structure of the Mark III containment. In addition, there appears to be a potential for the occurrence of similar dynamic loads on plants with a Mark I type of containment. Therefore, we require that you provide the information specified in Enclosure 1 concerning the potential magnitude of these hydrodynamic loads; and the effects of these loads, in combination with other design loads, on the design of your containment structures.

Enclosure 1 specifies the information required to complete our review of the effect of pool dynamic loads on the design of your containment structures. Enclosure 2 contains background information on the status of efforts directed at determining pool dynamic loads. For general information, we have also provided in Enclosure 3 a description of the various phenomena during a postulated LOCA which result in possible hydrodynamic loads. Please note that certain key phrases in Enclosure 3 have been underlined. These phrases (1) identify those specific hydrodynamic loads which, as a minimum, should be considered in your review of containment design, and (2) establish the standard nomenclature by which phenomena should be discussed or referenced in your documentation.

Your response to the request should be filed within sixty days of the date of receipt of this letter. If you cannot meet this schedule, please advise us within fifteen days. The scheduling of work on this matter should parallel related efforts on other containment design/operational control aspects, i.e., relief valve vent clearing and steam quenching vibration phenomena.

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Please contact us if you desire additional discussion or clarification of the information requested.

Sincerely,

Original signed by  
Dennis L. Ziemann

Dennis L. Ziemann, Chief  
Operating Reactors Branch #2  
Division of Reactor Licensing

Enclosures:

- 1. Required Information
- 2. Background
- 3. Description of Potential Pool Dynamic Phenomena

This request for Generic Information was approved by GAO under a blanket Clearance No. B-180225 (R0072); this clearance expires July 31, 1977.

cc w/enclosures:  
See next page

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cc w/enclosures:

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