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

Docket No. 50-219

APR 17 1975

Jersey Central Power & Light Company
ATTN: Mr. I. R. Finfrock, Jr.
Vice President - Generation
Madison Avenue at Punch Bowl Road
Morristown, New Jersey 07960

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.

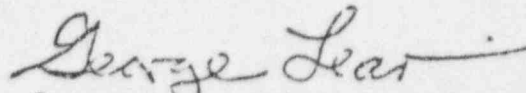
Your response to the request should be filed within sixty days of the date of receipt of this letter. If you cannot meet this schedule, please advise us within fifteen days. The scheduling of work on this matter should parallel related efforts on other containment design/operational control aspects, 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,



George Lear, Chief
Operating Reactors Branch #3
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 (RO072); this clearance expires July 31, 1977.

cc: w/enclosures .

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