

NRC PDL



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

DEC 10 1979

Richard P. Pollock, Director  
Critical Mass Energy Project  
133 C Street, S. E.  
Washington, D. C. 20003

Dear Mr. Pollock:

Your letter to Chairman Hendrie dated November 12, 1979 requested a meeting with the NRC staff to discuss the basis of NRC's ECCS analysis. I called you on November 29th for the purpose of establishing a date and agenda for the meeting. In the telephone conversation you indicated that you wished to receive additional information, which would be reviewed by your consultants, before establishing the meeting date and the participants for the Critical Mass Energy Project. You indicated that you requested a technical discussion of cladding swelling and rupture models for LOCA analysis, a topic which has been the subject of considerable correspondence and meetings since the end of October 1979. In accordance with your request, I agreed to send copies of recent information which I think will be of help to you in understanding the present situation. In addition, I agreed to arrange a mutually acceptable meeting in our Bethesda offices when you indicate your readiness.

The requested information is enclosed. Enclosure 1 lists the information being transmitted, and provides some commentary which should be beneficial in understanding the content and status. When you have completed your review of this information, please call me at 492-7258 to arrange a meeting date and time. If you have questions in the meantime, please call.

Very truly yours,

A handwritten signature in cursive script, appearing to read "Richard P. Denise", is written over the typed name.

Richard P. Denise, Acting Assistant  
Director for Reactor Safety  
Division of Systems Safety

Enclosure: As stated

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## ENCLOSURE 1

Documents transmitted to Mr. Richard P. Pollock, Director,  
Critical Mass Energy Project on December 7, 1979

### Enclosure 2

A copy of the draft report, "Cladding Swelling and Rupture Models for LOCA Analyses," NUREG-0630, by D. A. Powers and R. O. Meyer. This report differs in two ways from the information that was provided at the November 1, 1979 meeting: (1) the typing of figure numbers and non-essential information (e.g., Table 1) has been completed, and (2) the important Section 4 showing comparisons with vendor models is included. Approval to release the proprietary information in Section 4 had not been obtained on November 1, 1979.

### Enclosure 3

A summary dated November 20, 1979 of the public meeting held on November 1, 1979. This summary says why we thought there was a problem in the first place and why, by the end of that day, we believed that there was no major safety problem. The last enclosure to that summary is a memorandum to the Commissioners providing more detail on the disposition of the problem.

### Enclosure 4

Six letters dated November 2, 1979 from the fuel vendors and Yankee Atomic Electric Company confirming their oral presentations at the November 1, 1979 meeting.

### Enclosure 5

Six letters dated November 8, 1979 from the NRC to the fuel vendors and Yankee Atomic asking for their comments on the NRC staff report, NUREG-0630.

### Enclosure 6

A letter dated November 9, 1979 to all operators of light water reactors. This letter advises the licensees of the situation and requires them to confirm the representations made in their behalf by a fuel supplier.

### Enclosure 7

Six letters from the fuel vendors and Yankee Atomic Electric Company discussing the rupture temperature correlation noted in Enclosure 6 above.

Enclosure 8

A letter from B&W dated November 9, 1979 providing corrections to their November 2, 1979 letter.

Enclosure 9

A letter from Exxon dated November 4, 1979 providing further information requested by the staff.