

YANKEE ATOMIC ELECTRIC COMPANY

B.1.1.3



20 Turnpike Road Westborough, Massachusetts 01581

WYR 78-84

October 3, 1978

United States Nuclear Regulatory Commission
Washington, D. C. 20555

Attention: Office of Nuclear Reactor Regulation

References: (a) License No. DPR-3 (Docket No. 50-29)
(b) NRC Letter to YAEC, dated January 25, 1978
(c) YAEC Letter to WYR 78-15 dated February 21, 1978
(d) NRC Letter to YAEC, dated June 7, 1978
(e) YAEC Letter WYR 78-56 dated June 21, 1978

Dear Sir:

Subject: Asymmetric Loads Evaluation

In Reference (b), the NRC requested Yankee Atomic Electric Company to commit to perform engineering analyses related to evaluating Yankee Nuclear Power Station with respect to "asymmetric LOCA loads."

Yankee responded to that letter, Reference (c), stating that we believed that the Systematic Evaluation Program (SEP) was the vehicle for evaluating the need for any evaluation of asymmetric LOCA loads.

The NRC responded in Reference (d), stating that while the SEP would eventually determine the need for any plant modification, the analyses required for that determination must be submitted as previously requested.

In Reference (e), Yankee reiterated its belief that SEP was the correct forum for the subject.

On September 5, 1978, Yankee and NRC staff members met to discuss the views of both parties.

Based on the understandings reached at that meeting, Yankee will begin immediately to undertake the following activities:

1. Evaluate the magnitude of loads on the reactor vessel supports resulting from pipe breaks in the reactor coolant system, based on scaling from other plants;

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2. Develop necessary analytical models for determination of asymmetric LOCA loads;
3. Prepare a seismic assessment of major structures;
4. Develop analytical models and piping analyses of Safety Class 1 and 2 piping inside containment;
5. Upon completion of Item 4, postulate break locations and evaluate pipe breaks inside containment.

The program described above is a massive engineering effort that will require significant financial and manpower expenditures on the part of Yankee.

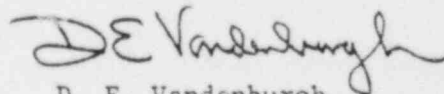
It is our understanding that the need for plant modifications as a result of these analyses will be assessed as part of SEP. This philosophy is stated in Reference (d).

We intend to embark on this program rapidly, with due concern for selection of the most qualified and cost-effective consulting help, and will inform you of schedules as they become available.

We trust this information will be satisfactory. Should you wish to discuss this material further, please call J. W. Stacey or J. R. Hoffman at (617) 366-9011.

Very truly yours,

YANKEE ATOMIC ELECTRIC COMPANY



D. E. Vandenberg
Senior Vice President

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