

# YANKEE ATOMIC ELECTRIC COMPANY



20 Turnpike Road Westborough, Massachusetts 01581

WYR 79-13

February 12, 1979

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

Attention: Office of Nuclear Reactor Regulation  
Dennis L. Ziemann, Chief  
Operating Reactors Branch #2  
Division of Operating Reactors

Reference: (a) License No. DPR-3 (Docket No. 50-29)  
(b) YAEC letter to USNRC dated March 29, 1974,  
Proposed Change No. 115  
(c) YAEC letter to USNRC dated August 6, 1971,  
Proposed Change No. 96  
(d) USNRC letter to YAEC dated September 26, 1977

Dear Sir:

Subject: Evaluation of Potential for Boron Dilution Accidents

Your letter, Reference (d) requested Yankee to perform an evaluation of the potential for and consequences of boron dilution accidents which could result from the most limiting single failure or operator error, taking into account the plant specific system and instrumentation design. In response to this request, we submit the following information.

Boron dilution events during plant refueling, startup, power operation, and coastdown have been previously analyzed for the Yankee Rowe Station. The results of that analysis were described in the FHSR and References (b) and (c). In addition to the plant parameters analyzed at that time, we have evaluated other plant parameters by again using conservative assumptions consistent with plant design, technical specifications, and operating procedures. The results of our evaluation establish that no additional potential boron dilution event could occur resulting from a single operator error or a single component failure. Based on these results, no corrective action, design or procedural, will be necessary.

We trust this information is acceptable to you; however, should you have any questions, please contact us.

Very truly yours,

YANKEE ATOMIC ELECTRIC COMPANY

R. H. Groce

Licensing Engineer

RTT/em

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