

NOV 27 1985

Docket No. 50-29

Mr. George Papanic, Jr.
Senior Project Engineer - Licensing
Yankee Atomic Electric Company
1671 Worcester Road
Framingham, Massachusetts 01701

Dear Mr. Papanic:

SUBJECT: INJECTION ΔP PENALTY FOR ECCS EVALUATION MODEL

Re: Yankee Nuclear Power Station (Yankee)

In a letter dated August 16, 1985, Yankee Atomic Electric Company proposed a modification to their ECCS evaluation model used for Yankee. The model modification proposes to reduce the injection ΔP penalty, which accounts for the thermal-hydraulic interaction between steam and the emergency core cooling water, from 0.8 psid to 0.15 psid during the pumped ECCS injection phase.

Enclosed is our safety evaluation on this model modification. Based upon the EPRI ECC mixing data and independent staff calculations, we have concluded that the proposed modification complies with Section I.D.4 of Appendix K to 10 CFR 50. Thus, we find this model modification acceptable as part of the approved Yankee Atomic ECCS evaluation model for Yankee.

Sincerely,

ES
George E. Lear, Director
PWR Project Directorate #1
Division of PWR Licensing-A

Enclosure:
Safety Evaluation

cc w/enclosure:
See next page

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Mr. George Papanic, Jr.
Yankee Atomic Electric Company

Yankee Nuclear Power Station

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