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YANKEE ATOMIC ELECTRIC COMPANY



20 Turnpike Road Westborough, Massachusetts 01581

June 16, 1976

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

Attention: Office of Nuclear Reactor Regulation

Subject: YR Core XII Small Break LOCA Analysis

Reference: (1) License No. DPR-3 (Docket No. 50-29)

(2) Letter from D.E. Vandenburgh to USNRC (May 19, 1976).

(3) Letter from D.E. Vandenburgh to USNRC (May 11, 1976).

(4) Proposed Change No. 138 (May 11, 1976).

(5) Proposed Change No. 125, Supplement No. 8 (February 20, 1976).

Dear Sir:

Please find attached to this letter the results of a confirmatory small break LOCA analysis for YR Core XII submitted in accordance with Reference (2) above. This analysis was performed with the corrected accumulator flow rates as described in Reference (3), and with the accumulator pressure setpoint designated in Reference (4). This analysis includes:

- (a) a reanalysis of the 4-inch ID pipe rupture previously reported to be the limiting small break
- (b) an analysis of a 5-inch ID, a 10-inch ID, and a safety injection (2.25 inch ID) pipe rupture, and
- (c) an analysis of a 2-inch ID pipe rupture with no direct ECCS spillage to the containment.

The results of the analysis reported herein are within the limits specified in 10CFR50.46. The safety injection (2.25-inch ID) pipe rupture has been identified as the most limiting small LOCA break size but not more limiting than the results previously reported in Reference (5).

Any further questions regarding this analysis should be directed to Mr. W. J. Szymczak at our Engineering Office, 20 Turnpike Road, Westboro, Massachusetts 01581, (617) 366-9011, extension 2844.

Respectfully submitted,

YANKEE ATOMIC ELECTRIC COMPANY

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Vice President

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