NORTHEAST UTILITIES
NU
THE CONNECTICUT LIGHT AND POWER COMPANY
THE HARTFORD ELECTRIC LIGHT COMPANY
WESTERN MASSACHUSETTS ELECTRIC COMPANY
HOLYOKE WATER POWER COMPANY
NORTHEAST UTILITIES SERVICE COMPANY
NORTHEAST NUCLEAR ENERGY COMPANY

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February 19, 1982

Docket No. 50-336
B10425

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Director Nuclear Reactor Regulation
Attn: Mr. Robert A. Clark, Chief
Operating Reactors Branch #3
U. S. Nuclear Regulatory Commission
Washington, D.C. 20555

References: (1) W. G. Counsil letter to R. A. Clark, dated February 4, 1982.

(2) W. G. Counsil letter to R. A. Clark, dated December 2, 1981.

Gentlemen:

Millstone Nuclear Power Station, Unit No. 2
Large Break LOCA/ECCS Performance Results
With Additional Plugged Steam Generator Tubes

In Reference (1), Northeast Nuclear Energy Company (NNECO) informed the NRC Staff of the continued validity of the results of the non-LOCA transient analyses and the small break LOCA analysis with additional plugged steam generator tubes for Millstone Unit No. 2.

The large break LOCA/ECCS performance analysis with additional plugged steam generator tubes has been completed and is provided in Attachment 1. These results have been QA verified by Westinghouse, the Cycle 5 fuel supplier.

The analyses presented herein were performed assuming 800 plugged tubes per steam generator. The results show the double-ended cold leg guillotine (DECLG) break at the pump discharge to be the limiting large break. The maximum clad temperature calculated for the DECLG large break was 2045°F and the maximum local and core-wide metal-water reactions were calculated to be 4.4 and 0.3 percent, respectively. These values are within the acceptance criteria established in 10CFR50.46.

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NNECO has reviewed these results pursuant to the requirements of 10CFR 170 and has determined that the applicable fee has been previously transmitted to the NRC Staff in Reference (2).

Very truly yours,

NORTHEAST NUCLEAR ENERGY COMPANY

W. G. Counsil

W. G. Counsil
Senior Vice President