

NORTHEAST UTILITIES

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

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August 3, 1988

Docket No. 50-423
812983

U.S. Nuclear Regulatory Commission
Attn: Document Control Desk
Washington, DC 20555

- References:
- (1) NUREG-1031, Millstone Nuclear Power Station, Unit No. 3 Safety Evaluation Report, July 1984.
 - (2) WCAP-11086, Diablo Canyon Units 1 and 2 Natural Circulation/Boron Mixing/Cool-Down Test Final Post Test Report, March 1986.
 - (3) E. J. Mroczka letter to U.S. Nuclear Regulatory Commission, Natural Circulation System Comparison Report, dated November 6, 1987.

Gentlemen:

Millstone Nuclear Power Station
Unit No. 3
Additional Information
Natural Circulation System Comparison Report

In Reference (1), the NRC indicated that verification of adequate mixing of borated water added to the reactor coolant system under natural circulation conditions and confirmation of natural circulation cooldown ability could be accomplished either by reference to the results of the tests from a plant similar in design or actual testing to be conducted at Millstone Unit No. 3. On March 28 and 29, 1985, a boron mixing and cooldown test was performed at Diablo Canyon Unit 1. This test (Reference (2)) demonstrated that the plant can safely be taken to cold shutdown under natural circulation conditions. Therefore, Northeast Nuclear Energy Company (NNECO) decided to provide a report to the NRC justifying the applicability of the results of the above test completed at Diablo Canyon to the Millstone Unit No. 3 design. Accordingly, in Reference (3), NNECO submitted to the NRC the natural circulation system comparison report for Millstone Unit No. 3. The enclosed additional information (the revised Natural Circulation System Comparison Report) concerning the plant systems and equipment that affect the natural circulation, boron mixing, cooldown capabilities of Millstone Unit No. 3 is being sent in response to the Staff's request made during a telephone conference between the NRC Staff and NNECO representatives on July 11 and 13, 1988.

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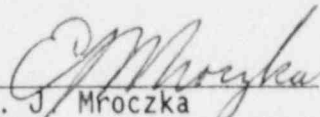
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If there are any questions regarding this submittal, please contact our licensing representative directly.

Very truly yours,

NORTHEAST NUCLEAR ENERGY COMPANY


E. J. Mroczka
Senior Vice President

cc: W. T. Russell, Region I Administrator
D. H. Jaffe, NRC Project Manager, Millstone Unit Nos. 2 and 3
W. J. Raymond, Senior Resident Inspector, Millstone Unit Nos. 1, 2, and 3