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NORTHEAST NUCLEAR ENERGY COMPANY

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November 17, 1981

Docket No. 50-336
B10325

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

Reference: (1) W. G. Counsil letter to R. Reid, dated March 6, 1980.

Gentlemen:

Millstone Nuclear Power Station, Unit No. 2
Cycle 5 Refueling - Reload Safety Analysis

Attached please find the Reload Safety Analysis (RSA) submitted in support of Millstone Unit No. 2, Cycle 5 reload. This report presents an evaluation for Millstone Unit No. 2, Cycle 5, which demonstrates that the Cycle 5 reload assures continued conformance to the design and safety limits of the plant.

In Reference (1), Northeast Nuclear Energy Company (NNECO) provided the NRC Staff with the Basic Safety Report (BSR). The BSR serves as the reference fuel assembly and safety analysis report for the use of Westinghouse fuel in Millstone Unit No. 2. NNECO has not yet received notice of the acceptability of the entire BSR although the Staff was informed of our intention to reference the document for the Cycle 5 reload.

The RSA provides the results of the reviews of those incidents analyzed and reported in Reference (1), which could potentially be affected by the fuel reload. Cycle-specific parameters in the areas of core kinetic characteristics, CEA worths, and core peaking factors have been examined. Of the analyses presented in Reference (1), the boron dilution, CEA ejection, CEA withdrawl from subcritical, CEA withdrawl at power, loss of reactor coolant flow, seized rotor and steam line rupture events required reanalysis for Cycle 5.

The attached Reload Safety Analysis includes the results of the boron dilution, CEA ejection, CEA withdrawal at subcritical, CEA withdrawal at power, loss of reactor coolant flow and seized rotor reanalysis. The results of the reanalysis of the steam line rupture event will be provided to the Staff in future correspondence but not later than December 1, 1981. The Technical Specification changes associated with the Cycle 5 reload, in conjunction with NNECO's formal determination pursuant to the requirements of 10 CFR50.59, will be provided at that time, also.

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