

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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December 3, 1985

Docket No. 50-336
B11910

Director of Nuclear Reactor Regulation
Attn: Mr. Ashok C. Thadani, Project Director
PWR Project Directorate #8
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Gentlemen:

Millstone Nuclear Power Station, Unit No. 2
Followup to Request for Additional Information on Spent Fuel Storage Capacity

In our letter dated November 25, 1985,⁽¹⁾ Northeast Nuclear Energy Company (NNECO) addressed five followup questions which had been posed by the Staff.

The second paragraph of the response to Question 3 was inadvertently omitted from the letter. Attachment A provides a full response to Question 3 as it should have appeared in the letter of November 25, 1985.

We trust that this information is satisfactory to the Staff, and we remain available to support expeditious processing of our pending amendment request.

Very truly yours,

NORTHEAST NUCLEAR ENERGY COMPANY

J. F. OPEKA
J. F. Opeka
Senior Vice President

E. J. Mroczka
By: E. J. Mroczka
Vice President

(1) J. F. Opeka letter to E. J. Butcher, "Millstone Nuclear Power Station, Unit No. 2 Followup to Request for Additional Information on Spent Fuel Storage Capacity," dated November 25, 1985.

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Attachment A

Follow-up to Request for Additional Information on
Spent Fuel Storage Capacity

December, 1985

Question 3: Describe the analyses done to show that adjacent modules do not contact during a seismic event.

Answer: The maximum horizontal displacement of the top of a module, including tipping, is determined from a non-linear time history analysis of an individual module. Separate analyses are made for a number of different modules with varying degrees of fuel loading, including empty, partially loaded and fully loaded modules. In these individual module time history analyses, all the modules in the pool are assumed to move in-phase when determining the rack-to-pool hydrodynamic characteristics.

To calculate the peak intermodular relative displacement, adjacent modules are assumed to move out-of-phase. The peak relative displacement is conservatively calculated by summing the absolute value of the peak displacements at the top of the module for the two modules considered. Using this approach, a peak intermodule relative displacement of 1.776 inches was determined. This value is less than the intermodular gap.