

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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April 4, 1984

Docket No. 50-336
B11087

Director of Nuclear Reactor Regulation
Attn: Mr. James R. Miller
Operating Reactors Branch #3
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

References: (1) W. G. Council letter to J. R. Miller, dated December 12, 1983.

Gentlemen:

Millstone Nuclear Power Station, Unit No. 2
Thermal Shield Damage Recovery Program
Appendix A to Final Report

In Reference (1), Northeast Nuclear Energy Company (NNECO) provided the NRC Staff the final report documenting the bases and supporting information for operation of Millstone Unit No. 2 following the removal of the thermal shield and associated core support barrel repairs. Chapter 8 of the Reference (1) report addresses the effects of the core support barrel repairs employed at Millstone Unit No. 2. Specifically, NNECO addressed the effects of bypass flow through the core support barrel crack arrestor holes onto the core shroud.

NNECO had flow tests and vibration analyses performed to determine the effects of the core support barrel bypass flow on the fuel in the vicinity of the core shroud seams. The attached information is provided as Appendix A to the Reference (1) report. The experimental program to determine the impingement flow velocity and breadth and the analytical results of fuel rod vibration due to this flow are summarized.

The docketing of this information fulfills commitments documented in Reference (1). We trust you will find this information satisfactory.

Very truly yours,

NORTHEAST NUCLEAR ENERGY COMPANY

W. G. Council
Senior Vice President

By: W. F. Fee
Executive Vice President
Engineering & Operations

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