NORTHEAST UTILITIES
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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December 8, 1981

Docket No. 50-336
B10342

Mr. Ronald C. Haynes, Director
Region I
Office of Inspection and Enforcement
U. S. Nuclear Regulatory Commission
631 Park Avenue
King of Prussia, PA 19406

Reference: (1) Letter, W. G. Counsil to V. Stello, Jr., dated July 10, 1981.

(2) Letter, W. G. Counsil to D. G. Eisenhut, dated August 26, 1981.

Gentlemen:

Millstone Nuclear Power Station, Unit No. 2
Resistance Temperature Detectors

In Reference (1), Northeast Nuclear Energy Company (NNECO) advised the NRC Staff of the apparent degradation of certain resistance temperature detectors (RTDs) at Millstone Unit No. 2. Included in Reference (1) were NNECO's plans to replace all RTDs at Millstone Unit No. 2 with RTDs of a different manufacturer. This replacement was scheduled for the 1981 refueling outage.

NNECO has since revised the schedule for the RTD replacement to coincide with the next refueling outage planned for early 1983. The delay is the result of differences in the design of the current RTDs and the intended replacements. The replacement RTDs are a three-wire design. The necessary signal processing equipment required to accommodate the change from the current four-wire designed RTDs will not be available to support the original plans to replace the RTDs during the upcoming refueling outage.

Since the replacement RTDs cannot be installed during the 1981 refueling outage, NNECO intends to take the following actions to ensure continued reliable operation of the existing RTDs:

1. All terminal blocks, crimps, and lugs in the RTD connection heads on all RTDs will be replaced. The replacement parts are those provided by the vendor in response to the corrosion problems identified in Reference (1).

2. Fully nuclear qualified conduit seal assemblies will be used on the connection head to completely seal the connection head internals from the surrounding environment. This is consistent with the commitments made in Reference (2) regarding equipment environmental qualification.

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3. New O-rings will be installed upon reassembly of the RTD connection head.

4. Twelve RTDs will be replaced with spare RTDs of the current design.

The actions described herein are judged to be optimal with regard to interim corrective measures to prevent degradation of the RTDs by corrosion until the fully qualified replacements can be installed. The new RTDs and their associated signal processing equipment are scheduled for installation during the refueling outage in early 1983.

We trust you will find this information satisfactory.

Very truly yours,

NORTHEAST NUCLEAR ENERGY COMPANY

W. G. Counsil
Senior Vice President

cc: D. G. Eisenhut