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UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D. C. 20555

April 15, 1980



Docket No. 50-245

Mr. W. G. Council, Vice President  
Nuclear Engineering and Operations  
Northeast Nuclear Energy Company  
Post Office Box 270  
Hartford, Connecticut 06101

Dear Mr. Council:

SUBJECT: SEP Topic III-6 (Millstone 1)

We are continuing our review of SEP Topic III-6, Seismic Review, and have determined that additional information described in the enclosures to this letter is needed. We request your response by June 1, 1980.

Sincerely,

Handwritten signature of Dennis L. Ziemann in cursive.

Dennis L. Ziemann, Chief  
Operating Reactors Branch #2  
Division of Operating Reactors

Enclosures:  
Request for Additional  
Information

cc w/enclosure:  
See next page

April 15, 1980

cc

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Natural Resources Defense Council  
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Northeast Nuclear Energy Company  
ATTN: Superintendent  
Millstone Plant  
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Northeast Utilities Service Company  
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Resident Inspector  
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Waterford Public Library  
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Waterford, Connecticut 06385

First Selectman of the Town  
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Hall of Records  
200 Boston Post Road  
Waterford, Connecticut 06385

Connecticut Energy Agency  
ATTN: Assistant Director  
Research and Policy  
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Department of Planning and  
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Director, Technical Assessment  
Division  
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U. S. Environmental Protection  
Agency  
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U. S. Environmental Protection  
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ADDITIONAL INFORMATION REQUIRED  
TO DOCUMENT THE SEISMIC RESISTANCE  
CAPABILITY OF THE MILLSTONE UNIT NO. 1 FACILITY

We have reviewed the material on piping systems submitted to us on November 26, 1979. The following is the list of information needed to proceed with our review and evaluation of the Millstone Unit No. 1 piping systems.

- I. Engineering data needed on feedwater line inside containment
  - A. Design and operating temperature and pressure
  - B. Nominal pipe sizes of 18" and 12" are indicated on drawings; however, pipe materials and schedule specifications are not indicated.
  - C. Valve weights and eccentricities are needed. Some valve weights are unreadable on the furnished drawings and no eccentricities are given.
  - D. Seismic anchor movement data
- II. Piping systems requested in the August 29, 1979 meeting but not included in the November 26, 1979 submittal.
  - A. Underground lines to oil storage day tank and from day tank to diesel generator, compressed air inlet line to diesel.
  - B. Condensate transfer line (portions run above isolation condenser) from reactor building penetration to the isolation condenser.
  - C. Shutdown cooling line (portion summarized in Table 12.1.2.8-3 of the FSAR).

To ensure that all necessary information will be furnished for the above lines, the required engineering data are summarized in the enclosure.

## (REQUEST FOR SEISMIC RESISTANCE INFORMATION)

## PIPING SYSTEM ENGINEERING DATA - Millstone 1

The following engineering data are required for ASME Class 2, 3, and ANSI B31.1 piping analyses.

1. List of design and operating temperatures and pressures
2. List of load cases and their associated operating conditions [normal and upset (Level A and B), emergency (Level C), or faulted (Level D)]
3. Detailed piping drawings and/or isometrics indicating the geometry of the piping system along with all necessary dimensions and weld locations
4. List of nominal pipe sizes, schedules, weights, and materials
5. List of pipe support types, locations, stiffnesses, and preloads
6. List of valve locations, weights, and eccentricities (center of gravity locations)
7. List of any anchor movements (thermal, seismic, etc.) and locations
8. Response spectra, static acceleration levels, or time history information for dynamic analyses
9. Description of any special fittings or components present on the piping system
10. If applicable, any imposed forces and moments due to relief valve discharge, connected lines and components, etc.
11. The design specification. It is recognized that the design specification would include some of the above data.

Unless otherwise directed the following assumptions will be made:

1. All components are butt welded (flush) and forged (no longitudinal components). Weld specifications would be needed if verification of this assumption is required.
2. All components meet ANSI B16.9 and ANSI B16.28 standards.
3. The requirements of ASME Code, Section III, Subsubarticle NC-3640 are satisfied.

This list is not necessarily all inclusive; thus, variations may result due to special requirements made by certain projects or programs.

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