

April 13, 1994

Docket No. 50-423

Mr. John F. Opeka
Executive Vice President, Nuclear
Connecticut Yankee Atomic Power Company
Northeast Nuclear Energy Company
Post Office Box 270
Hartford, Connecticut 06141-0270

Dear Mr. Opeka:

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION CONCERNING REVIEW OF GENERIC
STEAM GENERATOR TUBE RUPTURE (SGTR) ANALYSIS (TAC NO. M83307)

In our review of your Millstone Unit 3 SGTR submittal of April 28, 1992, we find that we need additional information. Please provide the information described in the enclosure to this letter within 60 days of the date of this letter.

This requirement affects one respondent and, therefore, is not subject to Office of Management and Budget review under P.L. 96-511.

Sincerely,

Original signed by:

Vernon L. Rooney, Senior Project Manager
Project Directorate I-4
Division of Reactor Projects - I/II
Office of Nuclear Reactor Regulation

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PDR ADOCK 05000423
P PDR

Enclosure:
Request for Additional
Information

cc w/enclosure:
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UNITED STATES
NUCLEAR REGULATORY COMMISSION

WASHINGTON, D.C. 20555-0001

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Sincerely,

A handwritten signature in black ink, appearing to read "V. Rooney".

Vernon L. Rooney, Senior Project Manager
Project Directorate I-4
Division of Reactor Projects - I/II
Office of Nuclear Reactor Regulation

Enclosure:
Request for Additional
Information

cc w/enclosure:
See next page

Mr. John F. Opeka
Northeast Nuclear Energy Company

Millstone Nuclear Power Station
Unit 3

cc:

Gerald Garfield, Esquire
Day, Berry and Howard
Counselors at Law
City Place
Hartford, Connecticut 06103-3499

R. M. Kacich, Director
Nuclear Planning, Licensing & Budgeting
Northeast Utilities Service Company
Post Office Box 270
Hartford, Connecticut 06141-0270

J. M. Solymossy, Director
Nuclear Quality & Assessment Services
Northeast Utilities Service Company
Post Office Box 270
Hartford, Connecticut 06141-0270

J. P. Stetz, Vice President
Haddam Neck Plant
Connecticut Yankee Atomic Power Company
362 Injun Hollow Road
East Hampton, Connecticut 06424-3099

Kevin T. A. McCarthy, Director
Monitoring and Radiation Division
Department of Environmental Protection
79 Elm Street
Hartford, Connecticut 06106-5127

Regional Administrator
Region I
U.S. Nuclear Regulatory Commission
475 Allendale Road
King of Prussia, Pennsylvania 19406

Allan Johanson, Assistant Director
Office of Policy and Management
Policy Development and Planning Division
80 Washington Street
Hartford, Connecticut 06106

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

S. E. Scace, Vice President
Nuclear Operations Services
Northeast Utilities Service Company
Post Office Box 270
Hartford, Connecticut 06141-0270

P. D. Swetland, Resident Inspector
Millstone Nuclear Power Station
c/o U.S. Nuclear Regulatory Commission
Post Office Box 513
Niantic, Connecticut 06357

F. R. Dacimo, Nuclear Unit Director
Millstone Unit No. 3
Northeast Nuclear Energy Company
Post Office Box 128
Waterford, Connecticut 06385

M. R. Scully, Executive Director
Connecticut Municipal Electric
Energy Cooperative
30 Stott Avenue
Norwich, Connecticut 06360

Burlington Electric Department
c/o Robert E. Fletcher, Esq.
271 South Union Street
Burlington, Vermont 05402

David W. Graham
Fuel Supply Planning Manager
Massachusetts Municipal Wholesale
Electric Company
Post Office Box 426
Ludlow, Massachusetts 01056

Nicholas S. Reynolds
Winston & Strawn
1400 L Street, NW
Washington, DC 20005-3502

Donald B. Miller, Jr.
Senior Vice President
Millstone Station
Northeast Nuclear Energy Company
Post Office Box 128
Waterford, Connecticut 06385

REQUEST FOR ADDITIONAL INFORMATION

1. By letter dated April 28, 1992, you provided the assumed operator action times for the overfill scenario.

You indicated that 17 simulation runs were completed with 11 of 12 Millstone Unit 3 crews of licensed personnel. You derived the arithmetic mean for operator action times, which were used as the assumed times for the overfill scenario.

Using the arithmetic mean as the assumed time does not allow acceptable demonstration that operators can meet the assumed time. Show that operator action times assumed in the SGTR analysis are realistic and achievable.

2. We determined that the percentage of the 17 demonstration runs that met the assumed times for SGTR operator actions were as follows: (1) identify and isolate ruptured SG (65 percent), (2) initiate cooldown (65 percent), (3) initiate depressurization (59 percent), and (4) initiate SI termination (65 percent). These results are unacceptable to show that the postulated SGTR accident can be mitigated within a period of time compatible with overfill prevention, using design basis assumptions regarding available equipment and its impact on operator action times.

In past SGTR reviews, we have found the following actions acceptable for resolving this issue: (1) providing demonstrated times that are bounded by the assumed times, (2) modifying operator action times assumed in the SGTR analysis, or (3) addressing demonstrated times that are not bounded by the assumed times by performing a sensitivity analysis (i.e., using the longest time for a particular operator action), indicating that there is sufficient margin to steam generator overfill. Submit for review your proposed action and schedule to resolve this issue.