

Mr. Neil S. Carns
 Senior Vice President
 and Chief Nuclear Officer
 Northeast Nuclear Energy Company
 c/o Ms. Patricia A. Loftus
 Director - Regulatory Affairs
 P. O. Box 128
 Waterford, CT 06385

July 23, 1997

SUBJECT: EMERGENCY CORE COOLING SYSTEM MODEL CHANGES AND REANALYSES
 MILLSTONE NUCLEAR POWER STATION, UNIT 2 (TAC NO. M97680)

Dear Mr. Carns:

By letter dated January 29, 1997, Northeast Nuclear Energy Company (NNECO) identified errors and reported changes in the Emergency Core Cooling System evaluation models and application of the models for Millstone, Unit 2, as required by 10 CFR 50.46(a)(3)(ii). The models used by NNECO for the small break and large break loss-of-coolant accidents (SBLOCA and LBLOCA) reanalyses for Millstone, Unit 2, are Siemens Power Corporation (SPC) models. The SBLOCA evaluation model used is the approved SPC ANF-RELAP, TOODEE2, and RODEX2 model and the LBLOCA evaluation model is the interim SPC EXEM/PWR LBLOCA model.

The NRC staff has completed its review of information provided in your submittal and has determined that both the SBLOCA and the interim LBLOCA analyses are acceptable for the restart of Millstone, Unit 2. A plant-specific analysis using the SPC modified final LBLOCA model will be required prior to startup after the next refueling outage for the unit. The results of the staff's review is provided in the enclosure to this letter.

This completes all the actions required for the subject TAC number.

Sincerely,

Original signed by:

Daniel G. McDonald, Jr., Senior Project Manager
 Special Projects Office - Licensing
 Office of Nuclear Reactor Regulation

Docket No. 50-336

Enclosure: Safety Evaluation

cc w/encl: See next page

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NUCLEAR REGULATORY COMMISSION

WASHINGTON, D.C. 20555-0001

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Senior Vice President
and Chief Nuclear Officer
Northeast Nuclear Energy Company
c/o Ms. Patricia A. Loftus
Director - Regulatory Affairs
P. O. Box 128
Waterford, CT 06385

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Sincerely,

A handwritten signature in cursive script, reading "Daniel G. McDonald, Jr.".

Daniel G. McDonald, Jr., Senior Project Manager
Special Projects Office - Licensing
Office of Nuclear Reactor Regulation

Docket No. 50-336

Enclosure: Safety Evaluation

cc w/encl: See next page

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Millstone Nuclear Power Station
Unit 2

cc:

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Unit 2

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