October 25, 1996

Mr. Ted C. Feigenbaum
Executive Vice President and
Chief Nuclear Officer
Northeast Utilities Service Company
c/o Mr. Terry L. Harpster
Director - Nuclear Licensing Services
P.O. Box 128
Waterford, CT 06385

SUBJECT: ISSUANCE OF AMENDMENT RELATING TO CHARGING PUMPS AND HIGH PRESSURE SAFETY INJECTION PUMPS DURING MODE 5 AND 6 OPERATION - MILLSTONE NUCLEAR POWER STATION, UNIT NO. 2 (TAC NO. M96483)

Dear Mr. Feigenbaum:

The Commission has issued the enclosed Technical Specification (TS) Amendment No. 205 to Facility Operating License No. DPR-65 for the Millstone Nuclear Power Station, Unit No. 2, in response to your application dated August 27, 1996.

The TS amendment clarifies the limiting condition for operation and surveillance requirements to ensure that the appropriate number of charging pumps and high pressure safety injection pumps are operable for reactivity control and reactor coolant system (RCS) makeup requirements, while also limiting the number of operable pumps to ensure that the low temperature overpressure limits will not be exceeded in the event of a mass addition to the RCS during shutdown conditions. The TS Bases remain unchanged as the result of this amendment.

A copy of the related Safety Evaluation is also enclosed. Notice of Issuance will be included in the Commission's biweekly Federal Register notice.

Sincerely,
(Original Signed By)
Daniel G. McDonald Jr., Senior Project Manager
Northeast Utilities Project Directorate
Division of Reactor Projects - I/II
Office of Nuclear Reactor Regulation

Docket No. 50-336

Enclosures: 1. Amendment No. 205 to DPR-65
2. Safety Evaluation

cc w/encls: See next page

DISTRIBUTION:

Docket File	GHill (2)
PUBLIC	CGrimes
PDI-3 Plant	ACRS
SVarga	JDurr
PMcKee	
LBerry	
DMcDonald	
OGC	

DFO1 1/

NRC FILE CENTER COPY

DOCUMENT NAME: G:\MCDONALD\M96483.AMD
To receive a copy of this document, indicate in the box: "C" = Copy without attachment/enclosure "E" = Copy with attachment/enclosure "N" = No copy

OFFICE	NUPD:PM	E	PD2-2:LA	E	SRXB	N	OGC		NUPD:D	
NAME	DMcDonald		LBerry		RJones #11348				PMcKee	
DATE	10/21/96		10/10/96		10/20/96		10/21/96		10/25/96	

OFFICIAL RECORD COPY

9610310114 961025
PDR ADOCK 05000336
P PDR

UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

October 25, 1996

Mr. Ted C. Feigenbaum
Executive Vice President and
Chief Nuclear Officer
Northeast Utilities Service Company
c/o Mr. Terry L. Harpster
Director - Nuclear Licensing Services
P.O. Box 128
Waterford, CT 06385

SUBJECT: ISSUANCE OF AMENDMENT RELATING TO CHARGING PUMPS AND HIGH PRESSURE SAFETY INJECTION PUMPS DURING MODE 5 AND 6 OPERATION - MILLSTONE NUCLEAR POWER STATION, UNIT NO. 2 (TAC NO. M96483)

Dear Mr. Feigenbaum:

The Commission has issued the enclosed Technical Specification (TS) Amendment No. 205 to Facility Operating License No. DPR-65 for the Millstone Nuclear Power Station, Unit No. 2, in response to your application dated August 27, 1996.

The TS amendment clarifies the limiting condition for operation and surveillance requirements to ensure that the appropriate number of charging pumps and high pressure safety injection pumps are operable for reactivity control and reactor coolant system (RCS) makeup requirements, while also limiting the number of operable pumps to ensure that the low temperature overpressure limits will not be exceeded in the event of a mass addition to the RCS during shutdown conditions. The TS Bases remain unchanged as the result of this amendment.

A copy of the related Safety Evaluation is also enclosed. Notice of Issuance will be included in the Commission's biweekly Federal Register notice.

Sincerely,

Daniel G. McDonald Jr., Senior Project Manager
Northeast Utilities Project Directorate
Division of Reactor Projects - I/II
Office of Nuclear Reactor Regulation

Docket No. 50-336

Enclosures: 1. Amendment No. 205 to DPR-65
2. Safety Evaluation

cc w/encls: See next page

cc:

Lillian M. Cuoco, Esq.
Senior Nuclear Counsel
Northeast Utilities Service Company
P. O. Box 270
Hartford, CT 06141-0270

Mr. John Buckingham
Department of Public Utility Control
Electric Unit
10 Liberty Square
New Britain, CT 06051

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

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

Mr. S. E. Scace, Vice President
Nuclear Reengineering Implementation
Northeast Utilities Service Company
P.O. Box 128
Waterford, CT 06385

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

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

Mr. P. D. Swetland, Resident Inspector
Millstone Nuclear Power Station
c/o U.S. Nuclear Regulatory Commission
P.O. Box 513
Niantic, CT 06357

Mr. D. B. Miller, Jr.
Senior Vice President
Nuclear Safety and Oversight
Northeast Utilities Service Company
P. O. Box 270
Hartford, CT 06141-0270

P. M. Richardson, Nuclear Unit Director
Millstone Unit No. 2
Northeast Nuclear Energy Company
P. O. Box 128
Waterford, CT 06385

Charles Brinkman, Manager
Washington Nuclear Operations
ABB Combustion Engineering
12300 Twinbrook Pkwy, Suite 330
Rockville, MD 20852

Mr. E. A. DeBarba
Vice President - Nuclear Technical
Services
Northeast Utilities Service Company
P. O. Box 128
Waterford, CT 06385

Mr. F. C. Rothen
Vice President - Nuclear Work Services
Northeast Utilities Service Company
P. O. Box 128
Waterford, CT 06385

Ernest C. Hadley, Esq.
1040 B Main Street
P.O. Box 549
West Wareham, MA 02576

Mr. B. D. Kenyon
President - Nuclear Group
Northeast Utilities Service Company
P. O. Box 128
Waterford, CT 06385

UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

NORTHEAST NUCLEAR ENERGY COMPANY

THE CONNECTICUT LIGHT AND POWER COMPANY

THE WESTERN MASSACHUSETTS ELECTRIC COMPANY

DOCKET NO. 50-336

MILLSTONE NUCLEAR POWER STATION, UNIT NO. 2

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 205
License No. DPR-65

1. The Nuclear Regulatory Commission (the Commission) has found that:

   A. The application for amendment by Northeast Nuclear Energy Company, et al. (the licensee) dated August 27, 1996, complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act), and the Commission's rules and regulations set forth in 10 CFR Chapter I;

   B. The facility will operate in conformity with the application, the provisions of the Act, and the rules and regulations of the Commission;

   C. There is reasonable assurance (i) that the activities authorized by this amendment can be conducted without endangering the health and safety of the public, and (ii) that such activities will be conducted in compliance with the Commission's regulations;

   D. The issuance of this amendment will not be inimical to the common defense and security or to the health and safety of the public; and

   E. The issuance of this amendment is in accordance with 10 CFR Part 51 of the Commission's regulations and all applicable requirements have been satisfied.

2. Accordingly, the license is amended by changes to the Technical Specifications as indicated in the attachment to this license amendment, and paragraph 2.C.(2) of Facility Operating License No. DPR-65 is hereby amended to read as follows:

(2) Technical Specifications

The Technical Specifications contained in Appendix A, as revised through Amendment No. 205 , are hereby incorporated in the license. The licensee shall operate the facility in accordance with the Technical Specifications.

3. This license amendment is effective as of the date of issuance, to be implemented within 30 days of issuance.

FOR THE NUCLEAR REGULATORY COMMISSION

Phillip F. McKee, Director
Northeast Utilities Project Directorate
Division of Reactor Projects - I/II
Office of Nuclear Reactor Regulation

Attachment: Changes to the Technical Specifications

Date of Issuance: October 25, 1996

ATTACHMENT TO LICENSE AMENDMENT NO. 205

FACILITY OPERATING LICENSE NO. DPR-65

DOCKET NO. 50-336

Replace the following page of the Appendix A, Technical Specifications, with the attached page. The revised page is identified by amendment number and contains vertical lines indicating the areas of change.

Remove	Insert
3/4 1-11	3/4 1-11

CHARGING PUMP - SHUTDOWN

LIMITING CONDITION FOR OPERATION

3.1.2.3 One charging pump and one high pressure safety injection pump* in the boron injection flow path required OPERABLE pursuant to Specification 3.1.2.1 shall be OPERABLE and capable of being powered from an OPERABLE emergency bus. One additional charging pump and high pressure safety injection pump may be capable of injecting provided that the RCS is vented through a passive vent of ≥ 2.8 in^2.

APPLICABILITY: MODES 5 and 6.

ACTION:

a. With less than the minimum required pumps OPERABLE, suspend all operations involving CORE ALTERATIONS or positive reactivity changes until at least one of the required pumps is restored to OPERABLE status.

b. With more than the maximum allowed pumps capable of injecting take immediate action to comply with 3.1.2.3.

SURVEILLANCE REQUIREMENTS

4.1.2.3.1 The above required charging pump and high pressure safety injection pump shall be demonstrated OPERABLE at least once per 31 days by:

a. Starting (unless already operating) the pump from the control room,

b. Verifying pump operation for at least 15 minutes, and

c. Verifying that the pump is aligned to receive electrical power from an OPERABLE emergency bus.

4.1.2.3.2 All charging pumps not intended to be capable of injecting, shall be demonstrated inoperable at least once per 12 hours by verifying that the motor circuit breakers are in the open position.

4.1.2.3.3 All high pressure safety injection pumps not intended to be capable of injecting, shall be demonstrated inoperable at least once per 12 hours by either: (a) verifying that the motor circuit breakers have been disconnected from their power supply circuits, or (b) shutting and tagging the discharge valve with the key lock on the control panel (2-SI-654 or 2-SI-656).

---

* When in MODE 6 with the reactor vessel head removed then only one charging pump is required.

UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION

RELATED TO AMENDMENT NO. 205

TO FACILITY OPERATING LICENSE NO. DPR-65

NORTHEAST NUCLEAR ENERGY COMPANY

THE CONNECTICUT LIGHT AND POWER COMPANY

THE WESTERN MASSACHUSETTS ELECTRIC COMPANY

MILLSTONE NUCLEAR POWER STATION, UNIT NO. 2

DOCKET NO. 50-336

1.0 INTRODUCTION

By letter dated August 27,1996, Northeast Nuclear Energy Company, et al. (the licensee) submitted a request for changes to the Millstone Nuclear Power Station, Unit No. 2 Technical Specifications (TSs). The requested changes clarify the limiting condition for operation (LCO) and surveillance requirements to ensure that the appropriate number of charging pumps and high pressure safety injection (HPSI) pumps are operable for reactivity control and reactor coolant system (RCS) makeup requirements, while also limiting the number of operable pumps to ensure that the low temperature overpressure (LTOP) limits will not be exceeded in the event of a mass addition to the RCS during shutdown conditions.

Specifically, LCO Section 3.1.2.3 and Action Statement 3.1.2.3.b are changed to replace the word "operable" with "capable of injecting." Surveillance Requirements 4.1.2.3.2 and 4.1.2.3.3. are revised by replacing the phrase "except for the above OPERABLE pump(s)" with "not intended to be capable of injecting." This change will ensure that the inoperable pumps remain inoperable. The associated TS Bases remain unchanged as the result of the proposed clarification.

2.0 EVALUATION

By letter dated February 15, 1995, the NRC staff issued Amendment No. 185 to Facility Operating License No. DRP-65 for the Millstone Nuclear Power Station, Unit No. 2. The approved TS changes were in response to Generic Letter (GL) 90-06 "Resolution of Generic Issue 70, 'Power-Operated Relief Valve and Block Valve Reliability,' and Generic Issue 94, 'Additional Low-Temperature Overpressure Protection for Light Water Reactors,' Pursuant to 10 CFR 50.54(f)." In addition, changes were made to the TSs to address boron dilution and shutdown risk. The amendment specified the number and conditions

for the required operable charging and HPSI pumps in shutdown conditions (Modes 5 and 6) indicating that the remaining charging and HPSI pumps be inoperable.

The licensee is proposing the wording changes identified above to provide clarification to ensure that the required operable pumps would not be rendered inoperable under certain conditions. The current definition of operable requires, in part, that the normal and emergency electrical power sources be available. Recently, while the unit was in a shutdown condition, one of the two emergency diesel generators was inoperable and the other was required by TSs to have surveillance testing performed resulting in no emergency power available to the required charging and HPSI pumps while the unit was in a shutdown condition.

As noted, the intent of Amendment No. 185 was to ensure that the required charging and HPSI pumps would be available for reactivity (boron) control and RCS makeup to minimize shutdown risk while ensuring the remaining pumps would be inoperable for LTOP protection. The surveillance requirements of TSs 4.1.2.3.2 and 4.1.2.3.3 could be interpreted as requiring that the pumps used for reactivity control and RCS makeup should be demonstrated to be inoperable, in addition to those required to be inoperable for LTOP protection, if no emergency power is available. The surveillance requirements were added in Amendment No. 185 only to ensure LTOP protection and were not intended to result in disabling the pumps necessary to provide reactivity protection and RCS makeup during shutdown conditions when normal power is available. Thus, the proposed TS changes, as discussed above, provide adequate clarification to ensure that the necessary reactivity protection and RCS makeup capability will be provided for all conditions when the unit is shut down.

Therefore, the NRC staff has determined that the proposed changes are accaptable. As previously noted, the associated TS Bases remain unchanged.

3.0 STATE CONSULTATION

In accordance with the Commission's regulations, the Connecticut State official was notified of the proposed issuance of the amendment. The State official had no comments.

4.0 ENVIRONMENTAL CONSIDERATION

The amendment changes a requirement with respect to installation or use of a facility component located within the restricted area as defined in 10 CFR Part 20 and changes surveillance requirements. The NRC staff has determined that the amendment involves no significant increase in the amounts, and no significant change in the types, of any effluents that may be released offsite, and that there is no significant increase in individual or cumulative occupational radiation exposure. The Commission has previously issued a

proposed finding that the amendment involves no significant hazards consideration, and there has been no public comment on such finding (61 FR 49498). Accordingly, the amendment meets the eligibility criteria for categorical exclusion set forth in 10 CFR 51.22(c)(9). Pursuant to 10 CFR 51.22(b) no environmental impact statement or environmental assessment need be prepared in connection with the issuance of the amendment.

5.0 CONCLUSION

The Commission has concluded, based on the considerations discussed above, that: (1) there is reasonable assurance that the health and safety of the public will not be endangered by operation in the proposed manner, (2) such activities will be conducted in compliance with the Commission's regulations, and (3) the issuance of the amendment will not be inimical to the common defense and security or to the health and safety of the public.

Principal Contributor: D. McDonald

Date: October 25, 1996