

June 25, 1979

Docket No. 50-336

Mr. W. G. Council, Vice President
Nuclear Engineering & Operations
Northeast Nuclear Energy Company
P. O. Box 270
Hartford, Connecticut 06101

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Dear Mr. Council:

The Commission has issued the enclosed Amendment No. 53 to Facility Operating License No. DPR-65 for Millstone Nuclear Power Station, Unit No. 2. This amendment consists of a license change and an Appendix B Technical Specification change to authorize operation of the facility at 2700 megawatts-thermal (Mwt) in response to your applications dated December 15, 1978 and February 12, 1979.

Our evaluation of Cycle 3 operation, as documented in the May 12, 1979 Safety Evaluation supporting Amendment No. 52, concluded that operation up to a maximum of 2700 Mwt would be acceptable with the exception of the items which may require additional review as a result of the Three Mile Island Unit No. 2 (TMI-2) Accident. We completed our review of your response to the Inspection and Enforcement Bulletin No. 79-06B. This review, as documented in our Safety Evaluation of June 7, 1979, indicates that the actions taken by your company demonstrate understanding of the concerns arising from the TMI-2 Accident in reviewing their implications on Millstone Unit No. 2 operation, and provide added assurance for the protection of the public health and safety during plant operation. As our review continues, other lessons learned from the TMI-2 Accident will be evaluated for and applied to Millstone Unit No. 2 on a generic basis. Therefore, the power level increase is authorized by this amendment which changes the maximum power level of Facility Operating License No. DPR-65, paragraph 2.C.(1), from 2560 Mwt to 2700 Mwt. This action is consistent with the Advisory Committee on Reactor Safeguards' finding, subsequent to their review on June 13 and 14, 1979, that they would not object to the NRC staff's plan to license Millstone Unit No. 2 to operate at a power level of 2700 Mwt.

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This amendment also: (1) removes paragraphs 2.D, 2.E and 2.F from the license. These requirements, which relate to the timely submittal of: proposed modification to the low pressure safety injection pump mini-flow bypass

line, neutron shielding measurement data, and a report analyzing the pre-operational reactor coolant pump flow test data, have been completed and the paragraphs provide no further useful requirements.

- (2) revises the Introduction to the Appendix B Technical Specifications. The changes conform the indicated power levels (2700 Mwt and 870 MWe) and correct the date and power levels for Millstone Unit No. 3. This is an administrative change made for clarification. The change has been modified editorially from your request as previously discussed with and agreed to by your staff.

Copies of the related Environmental Impact Appraisal and the Notice of Issuance/Negative Declaration are also enclosed.

Sincerely,

Robert W. Reid, Chief
Operating Reactors Branch #4
Division of Operating Reactors

Enclosures:

1. Amendment No. 53
2. Environmental Impact Appraisal
3. Notice of Issuance/Negative Declaration

cc w/enclosures:
See next page

*See previous yellow for concurrence

ESB *6*
GLear
6/5/79

OELD
Gray*
6/22/79

OFFICE	ORB#4:DOR	ORB#4:DOR	C-ORB#4:DOR	C-EEB:DOR	AD-E&P:DOR	D:DOR
SURNAME	RIngram *	McConner	RReid	GKnighton*	XXXXXXXX	DBisenburt
DATE	6/ /79	6/25/79	6/23/79	6/22/79	BGrimes*	6/28/79

Mr. W. G. Council

-2-

Copies of the related Environmental Impact Appraisal and the Notice of Issuance/Negative Declaration are also enclosed.

Sincerely,

Robert W. Reid, Chief
Operating Reactors Branch #4
Division of Operating Reactors

Enclosures:

1. Amendment No.
2. Environmental Impact Appraisal
3. Notice of Issuance/Negative Declaration

cc w/enclosures:
See next page

W.R. Reid
Amendment E.A. Notice of NO
and EIA only. Concurrence
constituted on incorporation of
comments noted on EIA p. 3.

W.R. Reid
6/22/79

D:DOR
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6/ /79

OFFICE	ORB#4:DOR	ORB#4:DOR	C-ERB/DOR	ESB	C-ORB#4-DOR	AD-DOR
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DATE	6/22/79	6/22/79	6/22/79	6/ /79	6/22/79	6/22/79

Northeast Nuclear Energy Company

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Waterford, Connecticut 06385

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U. S. Environmental Protection Agency
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Waterford Public Library
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Connecticut Energy Agency
ATTN: Assistant Director, Research
and Policy Development
Department of Planning and Energy
Policy
20 Grand Street
Hartford, Connecticut 06106



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

THE CONNECTICUT LIGHT AND POWER COMPANY,
THE HARTFORD ELECTRIC LIGHT COMPANY,
WESTERN MASSACHUSETTS ELECTRIC COMPANY, AND
NORTHEAST NUCLEAR ENERGY COMPANY

DOCKET NO. 50-336

MILLSTONE NUCLEAR POWER STATION, UNIT NO. 2

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 53
License No. DPR-65

1. The Nuclear Regulatory Commission (the Commission) has found that:
 - A. The applications for amendment by The Connecticut Light and Power Company, The Hartford Electric Light Company, Western Massachusetts Electric Company and Northeast Nuclear Energy Company (the licensees) dated December 15, 1978 and February 12, 1979, comply 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 applications, 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.

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2. Accordingly, Facility Operating License No. DPR-65 is hereby amended by changes to the Technical Specifications as indicated in the attachment to this license amendment and by the following changes:

- A. Revise paragraphs 2.C.(1) and 2.C.(2) in their entirety to read as follows:

(1) Maximum Power Level

The licensees are authorized to operate the facility at steady-state reactor core power levels not in excess of 2700 megawatts thermal.

(2) Technical Specifications

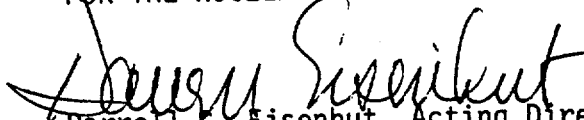
The Technical Specifications contained in Appendices A and B, as revised through Amendment No. 53, are hereby incorporated in the license. The licensee shall operate the facility in accordance with the Technical Specifications.

- B. Delete paragraphs 2.D, 2.E and 2.F and renumber the last paragraph 2.D.

- C. Delete Enclosure 1 to the license (issued with Amendment No. 4 on September 26, 1975).

3. This license amendment is effective as of the date of its issuance.

FOR THE NUCLEAR REGULATORY COMMISSION


Darrell G. Eisenhower, Acting Director
Division of Operating Reactors
Office of Nuclear Reactor Regulation

Attachment:
Changes to the Technical
Specifications

Date of Issuance: June 25, 1979

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ATTACHMENT TO LICENSE AMENDMENT NO. 53

FACILITY OPERATING LICENSE NO. DPR-65

DOCKET NO. 50-336

Replace page i of the Appendix "B" Technical Specifications with the enclosed page. The revised page is identified by Amendment number and contains a vertical line indicating the area of change.

INTRODUCTION

The Millstone Nuclear Power Station, operated by Northeast Nuclear Energy Company, consists of two operating units and a third unit under construction as shown below.

<u>Unit No.</u>	<u>Type</u>	<u>NSSS</u>	<u>MWt</u>	<u>Net MWe</u>	<u>Commercial Operation</u>
1	BWR	GE	2011	660	12/28/70
2	PWR	CE	2700	870	12/26/75
3	PWR	W	3411	1156	~1984

The Environmental Technical Specifications contained herein reflect the operating experience of Unit 1 and the need for continuing control and monitoring of plant operations to maintain the environmental impact to a level as low as practicable and in all cases within acceptable limits. In this regard, the specifications delineated are responsive to provisions of the National Environmental Policy Act of 1969.

Such conditions and limitations necessary for controlling the operations of the Millstone Station have been incorporated so that the station will have an acceptable environmental impact. Design features and operating practices bearing a direct relationship to the effect on the environment have been described. An environmental surveillance program provides a means to permit an assessment of the impact of the plant on the environment. The surveillance program incorporates reporting levels and instructions so that prompt notification of the U. S. Nuclear Regulatory Commission (NRC) shall be made in the event of an observable effect on a key parameter exceeding a specific level.

The administrative structure for the organization and management, review, audit, reports and records is described. The organizational structure provides the emphasis on the protection of the safety, health, and environment.



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

ENVIRONMENTAL IMPACT APPRAISAL

BY THE OFFICE OF NUCLEAR REACTOR REGULATION

SUPPORTING AMENDMENT NO. 53 TO FACILITY OPERATING LICENSE NO. DPR-65

NORTHEAST NUCLEAR ENERGY COMPANY, ET AL

MILLSTONE NUCLEAR POWER STATION, UNIT NO. 2

DOCKET NO. 50-336

DESCRIPTION OF PROPOSED ACTION

By letter dated December 15, 1978, Northeast Nuclear Energy Company (NNECO or the licensee) requested an amendment to Facility Operating License No. DPR-65 to allow operation of Millstone Nuclear Power Station, Unit No. 2 (Millstone-2) at an increased power rating of 2700 Mwt. This application contains the licensee's Environmental Impact Assessment of operation at the 2700 Mwt power level.

The licensee is presently licensed to operate Millstone-2 at a maximum power level of 2560 Mwt. The proposed change will increase the thermal power level by 5.5%. The licensee estimates that the additional electric output of approximately 40 MWe represents a potential savings to customers over the course of Cycle 3 operation, approaching \$6 million.

The Millstone Station is located on the north shore of Long Island Sound and on the east side of Niantic Bay in the town of Waterford, Connecticut, about three miles from New London, Connecticut.

The purpose of this Environmental Impact Appraisal (EIA) is to document our findings regarding the need to prepare a Final Environmental Statement (FES) in accordance with 10 CFR 51 Parts 51.5 and 51.7.

ENVIRONMENTAL IMPACT OF PROPOSED ACTION

In the preparation of the FES related to the continuation of construction of Millstone-2 and the operation of Units Nos. 1 and 2, the NRC staff performed the entire review based on the Unit No. 2 ultimate power level of 2700 Mwt. This FES was issued in June 1973. In the February 1974 FES related to the proposed construction of Millstone Unit No. 3, Unit No. 2 was again assumed to operate at the 2700 Mwt power level.

In their December 15, 1978 submittal, NNECO provides an update of the environmental impact assessment. Our appraisal of this information follows.

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Introduction

NNECO reports that the plant description is unchanged except for the change in thermal power level from 2560 MWt to 2700 MWt. As previously mentioned the FES states, "When completed, Unit No. 2 will generate 830 MWe (2700 MWt)."

By letter dated May 21, 1979, the licensee informed us that the radwaste evaporator is unservicable and will not be replaced. The radwaste system is under review as a part of the Appendix I review by the NRC staff. The question of the replacement of the radwaste evaporator will be addressed as a portion of this review.

The Site

NNECO provides information to update the site description, site meteorology and site ecology. They find that the historical significance, geology and hydrology of the site have not changed. We find no significant changes in the population, land use, meteorology, geology, hydrology and ecology which would affect our previous conclusion documented in our FES of June 1973.

The Station (Unit No. 2 Portion)

NNECO states that no changes in the description of the reactor and steam-electric system, other than the thermal power level and electrical output increases, are necessary. We find that the power level increase will have no appreciable effect on the station systems except for the condenser circulating water temperature increase as addressed below.

Environmental Effects of Plant Operation

NNECO provided information on their environmental radiological monitoring programs including preoperational, early operative and present operational versions. We have reviewed these monitoring programs and find that appropriate attention has been given to radiological monitoring. The present operational program should detect any environmental effect due to the power level increase. We expect such effects to be negligible.

NNECO estimates that the 5.5% power level increase will result in an additional 0.8°F temperature rise across the condenser. Past data indicates that this 0.8°F rise across the condenser will not bring the average delta temperature to the 23°F value assumed in our June 1973 FES. The present Appendix B (Environmental) Technical Specifications limit the condenser delta temperature to 28°F. This limit will not be increased by this proposed amendment. We find that the power level increase is bounded by the assumptions used in our FES of June 1973.

Environmental Impact of Postulated Accidents

We have evaluated the environmental impact of postulated accidents at Millstone-2 in the FES. This evaluation was performed at a thermal power level of 2700 MWt. Therefore, the conclusions reached in the June 1973 FES are not changed.

Plant Design Alternatives

We find this section is not affected by the power level increase. However, without the power level increase, the 40 MWe of electricity would continue to be produced by fossil-fired generating facilities.

Cost-Benefit Analysis

The FES evaluation of the costs and benefits of Millstone Unit No. 2 was based on a power level of 2700 MWt. Since this license amendment authorizes operation at that power level, no environmental costs greater than those presented in the FES will occur, no benefits different from those evaluated in the FES will accrue, and there is no change to the cost-benefit analysis and findings in the FES.

ENVIRONMENTAL CONCLUSION AND BASIS FOR NEGATIVE DECLARATION

On the basis of the foregoing analysis, it is concluded that there will be no environmental impact attributable to the proposed action other than that which has already been predicted and described in the Commission's FES dated June 1973 for Millstone-2. Having made this conclusion, the Commission has further concluded that no environmental impact statement for the proposed action need be prepared and that a negative declaration to this effect is appropriate.

Dated: June 25, 1979

UNITED STATES NUCLEAR REGULATORY COMMISSIONDOCKET NO. 50-336NORTHEAST NUCLEAR ENERGY COMPANY, ET ALNOTICE OF ISSUANCE OF AMENDMENT TO FACILITYOPERATING LICENSEAND NEGATIVE DECLARATION

The U. S. Nuclear Regulatory Commission (the Commission) has issued Amendment No. 53 to Facility Operating License No. DPR-65, issued to Northeast Nuclear Energy Company, The Connecticut Light and Power Company, The Hartford Electric Light Company, and Western Massachusetts Electric Company, which revised the license and its appended Technical Specifications for operation of the Millstone Nuclear Power Station, Unit No. 2, (the facility) located in the Town of Waterford, Connecticut. The amendment is effective as of its date of issuance.

The amendment revises the license and Appendix B Technical Specifications to authorize operation of the facility at an increased maximum steady-state power level of 2700 MWt. Appendix A Technical Specifications for this action were issued on May 12, 1979, with Amendment No. 52 (44 F. R. 30787, May 29, 1979). However, License Conditions 2.C.(1) and 2.C.(2) restricted operation to 2560 MWt. This amendment also removes satisfied paragraphs 2.D, 2.E and 2.F from the license.

The applications for the amendment comply with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act), and the Commission's rules and regulations. The Commission has made appropriate findings as required by the Act and the Commission's rules and regulations in 10 CFR Chapter I, which are set forth in the license amendment. Notice of Proposed Issuance of Amendment to Facility Operating License in connection with

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this action was published in the FEDERAL REGISTER ON February 21, 1979 (44 F. R. 10556). No request for a hearing or petition for leave to intervene was filed following notice of the proposed action.

The Commission has prepared an environmental impact appraisal for this action and has concluded that an environmental impact statement for this particular action is not warranted because there will be no environmental impact attributable to the action other than that which has already been predicted and described in the Commission's Final Environmental Statement for the facility dated June 1973.

For further details with respect to this action, see (1) the applications for amendment dated December 15, 1978 and February 12, 1979, (2) Amendment No. 53 to License No. DPR-65, (3) Advisory Committee on Reactor Safeguards' memorandum dated June 18, 1979, (4) the Commission's related Safety Evaluation issued May 12, 1979, and (5) the Commission's concurrently issued Environmental Impact Appraisal. All of these items are available for public inspection at the Commission's Public Document Room, 1717 H Street, N. W., Washington, D. C. and at the Waterford Public Library, Rope Ferry Road, Route 156, Waterford, Connecticut. A copy of items (2), (3), (4) and (5) may be obtained upon request addressed to the U. S. Nuclear Regulatory Commission, Washington, D. C., 20555, Attention: Director, Division of Operating Reactors.

Dated at Bethesda, Maryland, this 25th day of June 1979.

FOR THE NUCLEAR REGULATORY COMMISSION



Robert W. Reid, Chief
Operating Reactors Branch #4
Division of Operating Reactors