Docket File

### REGULATE WE RECOPY

Docket No. 50-336

MAY 2 9 1980

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

Dear Mr. Counsil:

The Commission has issued the enclosed Amendment No. 58 to Facility Operating License No. DPR-65 for the Millstone Nuclear Power Station, Unit No. 2. The amendment consists of changes to the Technical Specifications in response to your application dated May 9, 1980.

The changes to the Technical Specifications permit storage of fuel assemblies containing 3.35 weight percent U-235 in your high density spent fuel storage racks in the spent fuel storage pool.

The high density fuel storage racks at Millstone Unit No. 2 have been previously reviewed and approved for storage of fuel assemblies having enrichments of 3.26 weight percent U-235 (Letter, NRC to Mr. D. C. Switzer, dated June 30, 1977). In our Safety Evaluation, accompanying the approval, we stated that the value of effective multiplication factor including all biases and uncertainties was 0.93. It is expected that increasing the enrichment to 3.35 weight percent U-235 would increase the effective multiplication factor by about 0.006 (based on the parametric results cited in the original evals uation).

The licensee has re-evaluated the effective multiplication factor for the increased enrichment fuel. Different calculational tools were employed for the re-evaluation (KENO-IV Monte-Carlo calculation instead of the DOT-2W discrete ordinates calculation). The results of the re-evaluation are conservative with respect to (i.e., higher than) the extrapolation of the previous results. The value calculated for the effective multiplication factor with all biases and uncertainties included is 0.946, which meets our criterion of less than 0.95. Accordingly, we find that the proposed modification to Technical Specification 5.6.1 is acceptable.

We have determined that the amendment does not authorize a change in effluent types or total amounts nor an increase in power level and will not result in any significant environmental impact. Having made this

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determination, we have further concluded that the amendment involves an action which is insignificant from the standpoint of environmental impact and, pursuant to 10 CFR \$5%.5(d)(4), that an environmental impact statement or negative declaration and environmental impact appraisal need not be prepared in connection with the issuance of this amendment.

We have concluded, based on the considerations discussed above, that:
(1) because the amendment does not involve a significant increase in the probability or consequences of accidents previously considered and does not involve a significant decrease in a safety margin, the amendment does not involve a significant hazards consideration, (2) there is reasonable assurance that the health and safety of the public will not be endangered by operation in the proposed manner, and (3) such activities will be conducted in compliance with the Commission's regulations and the issuance of this amendment will not be inimical to the common defense and security or to the health and safety of the public.

A copy of the Notice of Issuance is also enclosed.

Sincerely,

Original signed by:

Robert A. Clark, Chief Operating Reactors Branch #3 Division of Licensing

Enclosures: DISTRIBUTION: 1. Amendment No. 58to DPR-65 Docket OELD Notice of Issuance NRC PDR I&E (3) L PDR BJones (4) cc w/enclosures: TERA BScharf (10) See next page NSIC STS-Rm507 ACRS (16) ORB 3 Rdg NRR Rdg **CMiles HRDenton** RDiggs, L233 GRAY FILE +4 DEisenhut AEOD, 7206 MNBB TNovak RAClark WBrooks **ELConner** PKreutzer



# UNITED STATES NUCLEAR REGULATORY COMMISSION WASHINGTON, D.C. 20555 May 29, 1980

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Docket No. 50-336

Docketing and Service Section Office of the Secretary of the Commission

SUBJECT: MILLSTONE UNIT NO. 2

to the	signed originals of the <u>Federal Register</u> Notice ic e Office of the Federal Register for publication. A enclosed for your use.		
□ No	otice of Receipt of Application for Construction	Permit(s) and Operating	ng License(s).
	otice of Receipt of Partial Application for Construubmission of Views on Antitrust Matters.	ction Permit(s) and Faci	lity License(s): Time for
□ No	otice of Availability of Applicant's Environmenta	l Report.	
□ No	otice of Proposed Issuance of Amendment to F	acility Operating Licen	se.
En	otice of Receipt of Application for Facility Lic nvironmental Report; and Notice of Consideration Opportunity for Hearing.		
□ No	otice of Availability of NRC Draft/Final Environr	nental Statement.	
□ No	otice of Limited Work Authorization.		
□ No	otice of Availability of Safety Evaluation Report		
□ No	otice of Issuance of Construction Permit(s).		
X No	otice of Issuance of Facility Operating License(	s) or Amendment(s).	
☑ Ot	her: Amendment No. 58		
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### UNITED STATES NUCLEAR REGULATORY COMMISSION WASHINGTON, D. C. 20555

May 29, 1980

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

Dear Mr. Counsil:

The Commission has issued the enclosed Amendment No. 58 to Facility Operating License No. DPR-65 for the Millstone Nuclear Power Station, Unit No. 2. The amendment consists of changes to the Technical Specifications in response to your application dated May 9, 1980.

The changes to the Technical Specifications permit storage of fuel assemblies containing 3.35 weight percent U-235 in your high density spent fuel storage racks in the spent fuel storage pool.

The high density fuel storage racks at Millstone Unit No. 2 have been previously reviewed and approved for storage of fuel assemblies having enrichments of 3.26 weight percent U-235 (Letter, NRC to Mr. D. C. Switzer, dated June 30, 1977). In our Safety Evaluation, accompanying the approval, we stated that the value of effective multiplication factor including all biases and uncertainties was 0.93. It is expected that increasing the enrichment to 3.35 weight percent U-235 would increase the effective multiplication factor by about 0.006 (based on the parametric results cited in the original evaluation).

The licensee has re-evaluated the effective multiplication factor for the increased enrichment fuel. Different calculational tools were employed for the re-evaluation (KENO-IV Monte-Carlo calculation instead of the DOT-2W discrete ordinates calculation). The results of the re-evaluation are conservative with respect to (i.e., higher than) the extrapolation of the previous results. The value calculated for the effective multiplication factor with all biases and uncertainties included is 0.946, which meets our criterion of less than 0.95. Accordingly, we find that the proposed modification to Technical Specification 5.6.1 is acceptable.

We have determined that the amendment does not authorize a change in effluent types or total amounts nor an increase in power level and will not result in any significant environmental impact. Having made this

determination, we have further concluded that the amendment involves an action which is insignificant from the standpoint of environmental impact and, pursuant to 10 CFR \$51.5(d)(4), that an environmental impact statement or negative declaration and environmental impact appraisal need not be prepared in connection with the issuance of this amendment.

We have concluded, based on the considerations discussed above, that: (1) because the amendment does not involve a significant increase in the probability or consequences of accidents previously considered and does not involve a significant decrease in a safety margin, the amendment does not involve a significant hazards consideration, (2) there is reasonable assurance that the health and safety of the public will not be endangered by operation in the proposed manner, and (3) such activities will be conducted in compliance with the Commission's regulations and the issuance of this amendment will not be inimical to the common defense and security or to the health and safety of the public.

A copy of the Notice of Issuance is also enclosed.

Sincerely,

Robert A. Clark, Chief

Operating Reactors Branch #3

Division of Licensing

#### Enclosures:

1. Amendment No. 58 to DPR-65

2. Notice of Issuance

cc w/enclosures:
See next page

#### Northeast Nuclear Energy Company

cc w/enclosure(s):
William H. Cuddy, Esquire
Day, Berry & Howard
Counselors at Law
One Constitution Plaza
Hartford, Connecticut 06103

Anthony Z. Roisman Natural Resources Defense Council 917 15th Street, N.W. Washington, D.C. 20005

Mr. Lawrence Bettencourt. First Selectman Town of Waterford Hall of Records - 200 Boston Post Road Waterford, Connecticut 06385

Northeast Nuclear Energy Company ATTN: Superintendent Millstone Plant Post Office Box 128 Waterford, Connecticut 06385

Director, Technical Assessment
Division
Office of Radiation Programs
(AW-459)
U. S. Environmental Protection Agency
Crystal Mall #2
Arlington, Virginia 20460

U. S. Environmental Protection Agency Region I Office ATTN: EIS COORDINATOR John F. Kennedy Federal Building Boston, Massachusetts U2203

Waterford Public Library Rope Ferry Road, Route 156 Waterford, Connecticut 06385

Northeast Utilities Service Company ATTN: Mr. James R. Himmelwright Nuclear Engineering and Operations P. O. Box 270 Hartford, Connecticut 06101 Mr. John T. Shedlosky U. S. Nuclear Regulatory Commission P. O. Drawer KK Niantic, CT 06357

cc w/enclosure(s) and incoming
 dtd.: May 9, 1980

Connecticut Energy Agency
ATTN: Assistant Director, Research
and Policy Development
Department of Planning and Energy
Policy
Connecticut
Policy
Connecticut
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### 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. 58 License No. DPR-65

- 1. The Nuclear Regulatory Commission (the Commission) has found that:
  - A. The application 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 May 9, 1980, complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act) and the Commission's rules and regulations as 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 Appendices A and B, as revised through Amendment No. 58, 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 its issuance.

FOR THE NUCLEAR REGULATORY COMMISSION

Robert A. Clark, Chief

Operating Reactors Branch #3

Division of Licensing

Attachment: Changes to the Technical Specifications

Date of Issuance: May 29, 1980

#### ATTACHMENT TO LICENSE AMENDMENT NO. 58

#### FACILITY OPERATING LICENSE NO. DPR-65

#### DOCKET NO. 50-336

Replace the following page of the Appendix "A" Technical Specifications with the enclosed page. The revised page is identified by Amendment number and contains vertical lines indicating the area of change. The corresponding overleaf page is also provided to maintain document completeness.

Page

5-5

#### DESIGN FEATURES

#### VOLUME

5.4.2 The total water and steam volume of the reactor coolant system is 10.060 + 700/-0 cubic feet.

#### 5.5 EMERGENCY CORE COOLING SYSTEMS

5.5.1 The emergency core cooling systems are designed and shall be maintained in accordance with the original design provisions contained in Section 6.3 of the FSAR with allowance for normal degradation pursuant to the applicable Surveillance Requirements.

#### 5.6 FUEL STORAGE

#### CRITICALITY

5.6.1 The new and spent fuel storage racks are designed and shall be maintained with sufficient center-to-center distance between assemblies to ensure a  $k_{\rm eff} < 0.95$  with the storage pool filled with unborated water. The maximum fuel enrichment to be stored in the fuel pool will be 3.35 w/o.

#### DRAINAGE

5.6.2 The spent fuel storage pool is designed and shall be maintained to prevent inadvertent draining of the pool below elevation 22'6".

#### 5.7 SEISMIC CLASSIFICATION

5.7.1 Those structures, systems and components identified as Category I Items in Section 5.1.1 of the FSAR shall be designed and maintained to the original design provisions contained in Section 5.8 of the FSAR with allowance for normal degradation pursuant to the applicable Surveillance Requirements.

#### 5.8 METEOROLOGICAL TOWER LOCATION

5.8.1 The meteorological tower location shall be as shown on Figure 5.1-1.

#### DESIGN FEATURES

#### 5.9 SHORELINE PROTECTION

5.9.1 The provisions for shoreline protection described in Amendments 34, 35 and 36 to the FSAR shall be completed by June 15, 1976.

## UNITED STATES NUCLEAR REGULATORY COMMISSION DOCKET NO. 50-336

NORTHEAST NUCLEAR ENERGY COMPANY, ET AL.

### NOTICE OF ISSUANCE OF AMENDMENT TO FACILITY OPERATING LICENSE

The U. S. Nuclear Regulatory Commission (the Commission) has issued Amendment No. 58 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 (the licensees), which revised 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 Technical Specifications to permit storage of fuel assemblies containing 3.35 weight percent U-235 in the high density spent fuel storage racks in the spent fuel storage pool.

The application for the amendment complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act), and the Commission's rules and regulations in 10 CFR Chapter I, which are set forth in the license amendment. Prior public notice of this amendment was not required since the amendment does not involve a significant hazards consideration.

The Commission has determined that the issuance of this amendment will not result in any significant environmental impact and that pursuant to 10 CFR \$51.5(d)(4) an environmental impact statement, or negative declaration and environmental impact appraisal need not be prepared in connection with issuance of this amendment.

For further details with respect to this action, see (1) the application for amendment dated May 9, 1980, (2) Amendment No. 58 to License No. DPR-65, and (3) the Commission's letter dated May 29, 1980. All of these items are available for public inspection at the Commission's Public Document Room, 1717 H Street, N.W., Washington, D. C. 20555, and at the Waterford Public Library, Rope Ferry Road, Route 156, Waterford, Connecticut. A copy of items (2) and (3) may be obtained upon request addressed to the U. S. Nuclear Regulatory Commission, Washington, D. C. 20555, Attention: Director, Division of Licensing.

Dated at Bethesda, Maryland, this 29th day of May 1980.

FOR THE NUCLEAR REGULATORY COMMISSION

Robert A. Clark, Chief

Operating Reactors Branch #3

Division of Licensing