

Doc 100

AUG 1 9 1976

Dockets Nos. 50-245

and 50-336

Northeast Nuclear Energy Company
ATTN: Mr. D. C. Switzer
President
P. O. Box 270
Hartford, Connecticut 06101

Gentlemen:

By application dated June 7, 1976, you requested a change to the Environmental Technical Specifications (ETS) for Millstone Units No. 1 and No. 2. The requested change would modify the requirement for isotopic analyses performed on the liquid effluent from the Millstone Unit No. 2 Steam Generator Blowdown. At the present time, ETS Section 2.4.1.3.A requires weekly isotopic testing to determine the principal gamma emitters and monthly testing for dissolved radioactive gases; these tests are to be performed regardless of the gross activity of the sample. The application dated June 7, 1976 requests that isotopic analyses be performed only if the gross activity of the steam generator blowdown sample exceeds 1×10^{-7} uCi/ml. We find this proposed change to be acceptable since a minimum sensitivity of 1×10^{-7} uCi/ml is consistent with our guidance on gross radioactivity measurements given in Section B.3 of Appendix A to Regulatory Guide 1.21, entitled "Measuring, Evaluating, and Reporting Radioactivity in Solid Wastes and Releases of Radioactive Materials in Liquid and Gaseous Effluents from Light-Water-Cooled Nuclear Power Plants", Revision 1 dated June 1974. Moreover, operation of Millstone Unit No. 2 with a continuous Steam Generator Blowdown rate of 4800 lb/hr (as assumed in the Final Environmental Statement dated June 1973) and with a radioactive content of 1×10^{-7} uCi/ml, would yield a very small fraction of the maximum allowable dose per reactor, due to liquid effluents, as specified in Appendix I to 10 CFR Part 50. Thus, this change to the Technical Specifications has no significant impact on the environment.

In the course of our review, we have determined that the proposed amendments do not involve significant new safety information of a type not considered by a previous Commission safety review of the facility. The amendments do not involve a significant increase in the probability or consequences of an accident, do not involve a significant decrease in a safety margin, and therefore do not involve a significant hazards consideration. We have also concluded that there is reasonable assurance that the health and safety of the public will not be endangered by this action, nor will it be inimical to the common defense and security.

OFFICE ➤

SURNAME ➤

DATE ➤

AUG 19 1976

Accordingly, the Commission has issued the enclosed Amendment No. 30 to Provisional Operating License No. DPR-21 and Amendment No. 14 to Facility Operating License No. DPR-65 for Millstone Units Nos. 1 and 2 respectively. These amendments revise the requirement to perform isotopic analyses on Millstone Unit No. 2 Steam Generator Blowdown samples such that no isotopic analyses need be performed unless the gross activity concentration of the sample exceeds 1×10^{-7} uCi/ml.

A copy of the Notice of Issuance of Amendments to Operating Licenses is also enclosed for your information. It is being filed with the Office of the Federal Register for publication.

Sincerely,

Original signed by

George Lear, Chief
Operating Reactors Branch #3
Division of Operating Reactors

Enclosures:

1. Amendment No. 30 to DPR-21
2. Amendment No. 14 to DPR-65
3. Federal Register Notice

cc: See next page

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| DATE ➤ | 7/ /76 | 7/ /76 | 7/ /76 | 7/ /76 | | |

AUG 19 1976

cc:

William H. Cuddy, Esquire
Day, Berry & Howard
Counselors at Law
One Constitution Plaza
Hartford, Connecticut 06103

Mr. J. R. McCormick, President
The Hartford Electric Light Company
P. O. Box 2370
Hartford, Connecticut 06101

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Robert Bishop
Department of Planning & Energy Policy
20 Grand Street
Hartford, Connecticut 06115

Mr. Albert L. Partridge, First Selectman
Town of Waterford
Hall of Records - 200 Boston Post Road
Waterford, Connecticut 06385

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



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. 50-245

MILLSTONE NUCLEAR POWER STATION, UNIT NO. 1

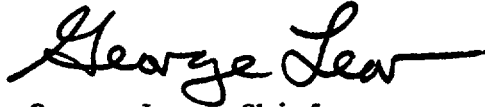
AMENDMENT TO PROVISIONAL OPERATING LICENSE

Amendment No. 30
License No. DPR-21

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 June 7, 1976, 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.
3. This license amendment is effective as of the date of its issuance.

FOR THE NUCLEAR REGULATORY COMMISSION



George Lear, Chief
Operating Reactors Branch #3
Division of Operating Reactors

Attachment:
Changes to the Technical
Specifications

Date of Issuance: AUG 19 1976

ATTACHMENT TO LICENSE AMENDMENT NO. 30

TO THE TECHNICAL SPECIFICATIONS

PROVISIONAL OPERATING LICENSE NO. DPR-21

DOCKET NO. 50-245

Replace pages 2.4-15 and 2.4-16 with the attached revised pages.

Table 2.4-1

RADIOACTIVE LIQUID SAMPLING AND ANALYSIS

| Liquid Source | Sampling Frequency | Type of Activity Analysis | Detectable Concentrations ($\mu\text{Ci/ml}$) (3) |
|---|-------------------------|---------------------------|---|
| A. Monitor Tank Releases | Each Batch | Principal Gamma Emitters | 5×10^{-7} (2) |
| | One Batch/Month | Dissolved Gases | 10^{-5} |
| | Weekly Composite (1) | Ba-La-140, I-131 | 10^{-6} |
| | | Sr-89 | 5×10^{-8} |
| | Monthly Composite (1) | H-3 | 10^{-5} |
| | | Gross Alpha | 10^{-7} |
| | Quarterly Composite (1) | Sr-90 | 5×10^{-8} |
| B. Primary Coolant | Weekly (4) | I-131, I-133 | 10^{-6} |
| C. Steam Generator Blowdown (Unit 2 Only) | Weekly (6) | Principal Gamma Emitters | 5×10^{-7} (2) |
| | | Ba-La-140, I-131 | 10^{-6} |
| | One Sample/Month (6) | Dissolved Gases | 10^{-5} |
| | | Sr-89 | 5×10^{-8} |
| | Monthly Composite (5) | H-3 | 10^{-5} |
| | | Gross alpha | 10^{-7} |
| | Quarterly Composite (5) | Sr-90 | 5×10^{-8} |

Table 2.4-1 (Continued)

- (1) A composite sample is one in which the quantity of liquid sampled is proportional to the quantity of liquid waste discharged.
- (2) For certain mixtures of gamma emitters, it may not be possible to measure radionuclides in concentrations near their sensitivity limits when other nuclides are present in the sample in much greater concentrations. Under these circumstances, it will be more appropriate to calculate the concentrations of such radionuclides using measured ratios with those radionuclides which are routinely identified and measured.
- (3) The detectability limits for activity analysis are based on the technical feasibility and on the potential significance in the environment of the quantities released. For some nuclides, lower detection limits may be readily achievable and when nuclides are measured below the stated limits, they shall also be reported.
- (4) The power level and cleanup or purification flow rate at the sample time shall also be reported.
- (5) To be representative of the average quantities and concentrations of radioactive materials in liquid effluents, samples should be collected in proportion to the rate of flow of the effluent stream. Prior to analyses, all samples taken for the composite should be thoroughly mixed in order for the composite sample to be representative of the average effluent release.
- (6) These analyses are required when the steam generator gross activity (sampled and analyzed 3 times per week as per the Safety Technical Specifications Table 4.7-2) exceeds $1 \times 10^{-7} \mu \text{Ci/ml}$.



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

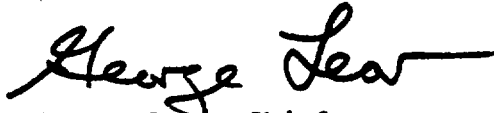
AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 14
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 June 7, 1976, 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.
3. This license amendment is effective as of the date of its issuance.

FOR THE NUCLEAR REGULATORY COMMISSION

A handwritten signature in cursive script, reading "George Lear", with a long horizontal flourish extending to the right.

George Lear, Chief
Operating Reactors Branch #3
Division of Operating Reactors

Attachment:
Changes to the Technical
Specifications

Date of Issuance: AUG 1 9 1976

ATTACHMENT TO LICENSE AMENDMENT NO. 14

TO THE TECHNICAL SPECIFICATIONS

FACILITY OPERATING LICENSE NO. DPR-65

DOCKET NO. 50-336

Replace pages 2.4-15 and 2.4-16 with the attached revised pages.

Table 2.4-1

RADIOACTIVE LIQUID SAMPLING AND ANALYSIS

| Liquid Source | Sampling Frequency | Type of Activity Analysis | Detectable Concentrations ($\mu\text{Ci/ml}$) (3) |
|---|------------------------------------|---------------------------|---|
| a. Monitor Tank Releases | Each Batch | Principal Gamma Emitters | 5×10^{-7} (2) |
| | One Batch/Month | Dissolved Gases | 10^{-5} |
| | Weekly Composite ⁽¹⁾ | Ba-La-140, I-131 | 10^{-6} |
| | Monthly Composite ⁽¹⁾ | Sr-89 | 5×10^{-8} |
| | | H-3 | 10^{-5} |
| | | Gross Alpha | 10^{-7} |
| | Quarterly Composite ⁽¹⁾ | Sr-90 | 5×10^{-8} |
| Primary Coolant | Weekly ⁽⁴⁾ | I-131, I-133 | 10^{-6} |
| Steam Generator Blowdown (Unit 2 Only) | Weekly ⁽⁶⁾ | Principal Gamma Emitters | 5×10^{-7} (2) |
| | | Ba-La-140, I-131 | 10^{-6} |
| | | Dissolved Gases | 10^{-5} |
| | Monthly Composite ⁽⁵⁾ | Sr-89 | 5×10^{-8} |
| | | H-3 | 10^{-5} |
| | | Gross alpha | 10^{-7} |
| | Quarterly Composite ⁽⁵⁾ | Sr-90 | 5×10^{-8} |

Table 2.4-1 (Continued)

- (1) A composite sample is one in which the quantity of liquid sampled is proportional to the quantity of liquid waste discharged.
- (2) For certain mixtures of gamma emitters, it may not be possible to measure radionuclides in concentrations near their sensitivity limits when other nuclides are present in the sample in much greater concentrations. Under these circumstances, it will be more appropriate to calculate the concentrations of such radionuclides using measured ratios with those radionuclides which are routinely identified and measured.
- (3) The detectability limits for activity analysis are based on the technical feasibility and on the potential significance in the environment of the quantities released. For some nuclides, lower detection limits may be readily achievable and when nuclides are measured below the stated limits, they shall also be reported.
- (4) The power level and cleanup or purification flow rate at the sample time shall also be reported.
- (5) To be representative of the average quantities and concentrations of radioactive materials in liquid effluents, samples should be collected in proportion to the rate of flow of the effluent stream. Prior to analyses, all samples taken for the composite should be thoroughly mixed in order for the composite sample to be representative of the average effluent release.
- (6) These analyses are required when the steam generator gross activity (sampled and analyzed 3 times per week as per the Safety Technical Specifications Table 4.7-2) exceeds $1 \times 10^{-7} \mu \text{ Ci/ml}$.

UNITED STATES NUCLEAR REGULATORY COMMISSION

DOCKETS NOS. 50-245 AND 50-336

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

NOTICE OF ISSUANCE OF AMENDMENTS TO OPERATING
LICENSES

The U. S. Nuclear Regulatory Commission (the Commission) has issued Amendment No. 30 to Provisional Operating License No. DPR-21 and Amendment No. 14 to Facility Operating License No. DPR-65 to Northeast Nuclear Energy Company, The Connecticut Light and Power Company, the Hartford Electric Light Company, and Western Massachusetts Electric Company, which revised Environmental Technical Specifications for operation of the Millstone Nuclear Power Station, Units Nos. 1 and 2, located in the Town of Waterford, Connecticut. These amendments are effective as of their date of issuance.

These amendments to the Environmental Technical Specifications will revise the requirements to perform isotopic analyses on Millstone Unit No. 2 Steam Generator Blowdown samples such that no isotopic analyses need be performed unless the gross activity concentration of the sample exceeds
-7
 1×10^{-7} uCi/ml.

The application for these amendments complies 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. Prior public notice of these amendments was not required since the amendment does not involve a significant hazards consideration.

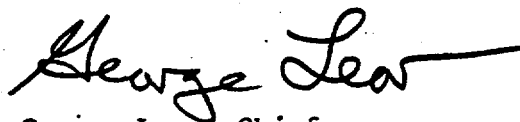
The Commission has determined that the issuance of this amendment will not result in any significant environmental impact and that pursuant to 10 CFR §51.5(d)(4) an environmental impact statement, negative declaration or environmental impact appraisal need not be prepared in connection with issuance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

For further details with respect to this action, see (1) the application for amendment dated June 7, 1976, (2) Amendment No. 30 to License No. DPR-21, and (3) Amendment No. 14 to License No. DPR-65, and (4) the Commission's reference letter. 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 06385.

A copy of items (2), (3) and (4) 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 19 day of August, 1976.

FOR THE NUCLEAR REGULATORY COMMISSION

A handwritten signature in dark ink, appearing to read "George Lear", with a long horizontal flourish extending to the right.

George Lear, Chief
Operating Reactors Branch #3
Division of Operating Reactors

UNITED STATES NUCLEAR REGULATORY COMMISSION

DOCKETS NOS. 50-245 AND 50-336

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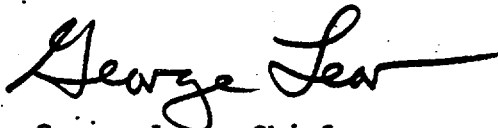
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