

September 26, 1988

Docket No. 50-336

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Mr. Edward J. Mroczka
Senior Vice President
Nuclear Engineering and Operations
Northeast Nuclear Energy Company
P. O. Box 270
Hartford, Connecticut 06141-0270

Dear Mr. Mroczka:

SUBJECT: ISSUANCE OF AMENDMENT (TAC NO. 68456)

The Commission has issued the enclosed Amendment No. 131 to Facility Operating License No. DPR-65 for Millstone Nuclear Power Station, Unit No. 2, in response to your application dated June 14, 1988.

The amendment revises Technical Specification (TS) 4.8.1.1.2b, "A.C. Sources," for Millstone Unit 2. The revised TS changes the industry standard for acceptability of emergency diesel generator (EDG) fuel oil, referenced in the TS, from ASTM D975-74 to ASTM D975-78.

A copy of the related Safety Evaluation is also enclosed. The notice of issuance will be included in the Commission's bi-weekly Federal Register notice.

Sincerely,

DS
David H. Jaffe, Project Manager
Project Directorate I-4
Division of Reactor Projects I/II
Office of Nuclear Reactor Regulation

Enclosures:

- 1. Amendment No. 131 to DPR-65
- 2. Safety Evaluation

cc w/enclosures:
See next page

LA:PDI-4
SNorris
09/15/88

PM:PDI-4
DJaffe:bd
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D:PDI-4
JStolz
for 09/16/88 *MJB*

OGC *CB*
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DFol
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Northeast Nuclear Energy Company

Millstone Nuclear Power Station
Unit No. 2

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

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. 131
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 June 14, 1988, 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. 131, 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


John F. Stolz, Director
Project Directorate I-4
Division of Reactor Projects I/II
Office of Nuclear Reactor Regulation

Attachment:
Changes to the Technical
Specifications

Date of Issuance: September 26, 1988

ATTACHMENT TO LICENSE AMENDMENT NO. 131

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 areas of change. The corresponding overleaf pages are provided to maintain document completeness.

Remove

3/4 8-3

Insert

3/4 8-3

ELECTRICAL POWER SYSTEMS

SURVEILLANCE REQUIREMENTS (Continued)

- b. At least once per 92 days by verifying that a sample of diesel fuel from each of the three fuel oil storage tanks, obtained in accordance with ASTM-D270-65, is within the acceptable limits specified in Table 1 of ASTM D975-78 when checked for viscosity, water and sediment.
- c. At least once per 18 months during shutdown by:
 - 1. Subjecting the diesel to an inspection in accordance with procedures prepared in conjunction with its manufacturer's recommendations for this class of standby service.
 - 2. Verifying that the automatic time delay sequencer is OPERABLE with the following settings:

<u>Sequence Step</u>	<u>Time After Closing of Diesel Generator Output Breaker (Seconds)</u>	
	<u>Minimum</u>	<u>Maximum</u>
1 (T ₁)	1.5	2.2
2 (T ₁)	T ₁ + 5.5	8.4
3 (T ₂)	T ₁ + 5.5	14.6
4 (T ₃)	T ₂ + 5.5	20.8

- 3. Verifying the generator capability to reject a load of ≥ 250 kw and maintain voltage at 4160 ± 500 volts and frequency at 60 ± 3 Hz.
- 4. Verifying the generator capability to reject a load of 1300 Kw without exceeding the overspeed trip setpoint.
- 5. Simulating a loss of offsite power in conjunction with a safety injection actuation signal, and:
 - a) Verifying deenergization of the emergency busses and load shedding from the emergency busses,
 - b) Verifying the diesel starts from ambient condition on the autostart signal, energizes the emergency busses with permanently connected loads, energizes the auto-connected emergency loads through the load sequencer and operates for ≥ 5 minutes while its generator is loaded with the emergency loads.



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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION

RELATED TO AMENDMENT NO. 131

TO FACILITY OPERATING LICENSE NO. DPR-65

NORTHEAST NUCLEAR ENERGY COMPANY, ET AL.

MILLSTONE NUCLEAR POWER STATION, UNIT NO. 2

DOCKET NO. 50-336

INTRODUCTION

By application for license amendment dated June 14, 1988, Northeast Nuclear Energy Company et al. (the licensee), requested a change to Technical Specifications (TS) 4.8.1.1.2b, "A.C. Sources," for Millstone Unit 2. The proposed change to the TS would change the industry standard for acceptability of emergency diesel generator (EDG) fuel oil, referenced in the TS, from ASTM D975-74 to ASTM D975-78.

DISCUSSION AND EVALUATION

At the present time, TS 4.8.1.1.2b requires that EDG fuel oil, tested every 92 days, be within the acceptability limits specified in ASTM D975-74 when tested for viscosity, water and sediment. The licensee has proposed that the specified standard ASTM D975-74 be replaced by ASTM D975-78 for determining the periodic acceptability of fuel oil.

The Millstone Unit 2 EDGs utilize Grade No. 2-D Diesel Fuel Oil. A comparison of the acceptability standards for Grade No. 2-D Diesel Fuel Oil, between ASTM D975-74 and ASTM D975-78, indicates that the only changes involve minor differences in kinematic viscosity. The 1974 edition presents an acceptable range of 2.0 to 4.3 cST and the 1978 edition requires 1.9 to 4.1 cST. The upper end of the range is limited by the engine and injection system design and the minimum limit is specified to minimize power loss caused by injector pump and injector leakage. The reduction in Cloud Pt $>10^{\circ}\text{F}$ from 1.8 to 1.7 cST is in a conservative direction in that it increases the temperature at which cloudiness would be detected in diesel fuel oil.

The reduction from 4.3 to 4.1 cST for kinematic viscosity is conservative in that it reduces the maximum allowable viscosity, thus ensuring that the engine or injection system limitations are not exceeded. The reduction from 2.0 to 1.9 cST for kinematic viscosity is in the direction which would tend to increase system leakage, but the change is within the recommended range of the EDG manufacturer.

In summary, the proposed change in the referenced standard for diesel fuel oil acceptability represents a minor change in fuel oil properties that are well within the acceptable range for reliable operation of the EDGs. Accordingly, the proposed change to TS 4.8.1.1.2b is acceptable.

ENVIRONMENTAL CONSIDERATION

This amendment changes surveillance requirements. The 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 published a proposed finding that the amendment involves no significant hazards consideration and there has been no public comment on such finding. 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.

CONCLUSION

We have 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, and (2) such activities will be conducted in compliance with the Commission's regulations, and the issuance of the amendment will not be inimical to the common defense and security or to the health and safety of the public.

Dated: September 26, 1988

Principal Contributor:

D. H. Jaffe