

**NORTHEAST UTILITIES**

THE CONNECTICUT LIGHT AND POWER COMPANY  
 WESTERN MASSACHUSETTS ELECTRIC COMPANY  
 NEW YORK WATER POWER COMPANY  
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January 16, 1991

Docket No. 50-245  
B13616

Re: 10CFR50.90  
 10CFR50, Appendix J

U.S. Nuclear Regulatory Commission  
 Attention: Document Control Desk  
 Washington, DC 20555

Gentlemen:

Millstone Nuclear Power Station, Unit No. 1  
 Proposed Revision to Technical Specifications  
Integrated Leak Rate Test--Mass Point Method

Pursuant to 10CFR50.90, Northeast Nuclear Energy Company (NNECO) hereby proposes to amend Operating License DPR-21 by incorporating the change identified in Attachment 1 into the Technical Specifications of Millstone Unit No. 1.

Discussion

The proposed change adds to Section 4.7.A.3 of the Millstone Unit No. 1 Technical Specifications the mass point method as an alternative means of calculating containment integrated leak rate test results as outlined in American National Standard ANSI/ANS 56.8-1987. The mass point method is accurate, well understood, and utilized throughout the industry. This method avoids many well-known and documented problems associated with other test techniques. The mass point method calculates the air mass at each point in time and plots it against time. A linear regression line is plotted through the mass time points using a least square fit. The slope of this line is proportional to the leakage rate. This method has been acknowledged and accepted by the NRC, as outlined in 10CFR50, Appendix J, Section III.A.3.(a). The license amendment is necessary to update the Millstone Unit No. 1 Technical Specifications to reflect acceptance of the mass point method by the NRC. It should be noted that similar license amendments have been issued for Millstone Unit Nos. 2<sup>(1)</sup> and 3.<sup>(2)</sup>

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- (1) D. H. Jaffe letter to E. J. Mroczka, "Change to the Technical Specifications and Exemption from the Requirements of Appendix J to 10 CFR Part 50, Paragraph III.A.3," dated February 11, 1988.
  - (2) D. H. Jaffe letter to E. J. Mroczka, "Issuance of Amendment," dated January 17, 1989.

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Significant Hazards Consideration

NNECO has reviewed the proposed change in accordance with 10CFR50.92 and has concluded that it does not involve a significant hazards consideration in that the change does not:

1. Involve a significant increase in the probability or consequences of an accident previously analyzed.

The change will provide the plant with the flexibility to use the total time method or the mass point method for calculating containment leakage rates. The change is consistent with 10CFR50, Appendix J, Section III.A.3.(a). There are no hardware modifications associated with this change. The revised surveillance requirement does not adversely affect the probability or consequences of the design basis accidents. Therefore, it is concluded that previously analyzed accidents are not affected.

2. Create the possibility of a new or different kind of accident from any previously analyzed.

The proposed change adds an acceptable means of containment leak rate testing to the Technical Specifications and will not result in a degradation of containment integrity or affect any other system important to safety. Accordingly, the potential for an unanalyzed accident is not created. No new failure modes are introduced.

3. Involve a significant reduction in a margin of safety.

Containment integrity will continue to be maintained with the use of the mass point method. The proposed requirements do not have any adverse impact on the protective boundaries. Since the proposed change does not affect the consequences of any accident previously analyzed, there is no reduction in a margin of safety.

The Commission has provided guidance concerning the application of standards in 10CFR50.92 by giving certain examples (March 6, 1986, 51 FR 7751) of amendments that are considered not likely to involve significant hazards considerations. The change proposed herein most closely resembles example (vii), a change to conform a license to changes in the regulations, where the license change results in very minor changes to facility operations clearly in keeping with the regulations. NNECO is proposing a change which will allow the use of the mass point test method to calculate containment leakage rates. The mass point method is accurate, well understood, and utilized throughout the industry. It has been acknowledged and accepted by the NRC, as outlined in 10CFR50, Appendix J, Section III.A.3.(a). The addition of this containment leak rate test method to Technical Specification 4.7.A.3 has no negative operational or safety impact on Millstone Unit No 1. In fact, this technique avoids many well-known and documented problems associated with other integrated leak rate test techniques.

