

NORTHEAST UTILITIES



THE CONNECTICUT LIGHT AND POWER COMPANY
WESTERN MASSACHUSETTS ELECTRIC COMPANY
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August 12, 1992

Docket No. 50-336
B14209

Re: 10CFR50.90

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

Gentlemen:

Millstone Nuclear Power Station, Unit No. 2
Proposed Revision to Technical Specifications
Cycle 12 Reload

Pursuant to 10CFR50.90, Northeast Nuclear Energy Company (NNECO) hereby proposes to amend its Operating License No. DPR-65 by incorporating the changes identified in Attachment 1 into the technical specifications of Millstone Unit No. 2.

Description of the Proposed Changes

The proposed amendment revises the limiting condition for operation, action statement, and surveillance requirements (Technical Specifications 3.2.3 and 4.2.3.2) associated with the total unrodded radial peaking factor (F_r^T), the limiting condition for operation (Technical Specification 3.3.3.2) associated with the incore detectors, and Figure 2.2-2, "Local Power Density--High Trip Setpoint Part 2." The proposed technical specification changes will accommodate the method of calculation used in INPAX, the new incore monitoring code which will be used in Cycle 12.

Summary of Proposed Changes to Technical Specifications

1. Total Unrodded Integrated Radial Peaking Factor-- F_r^T Limiting Condition for Operation (Specification 3.2.3)

"The calculated value of F_r^T shall be within the limit . . . " will be revised to " . . . shall be within the 100% power limit. . . . "

"With F_r^T exceeding its limit . . . " will be revised to " . . . exceeding the 100% power limit. . . . "

"Reduce THERMAL POWER to bring the combination of THERMAL POWER and F_r^T to within the limit and withdraw . . . " will be revised to " . . . to

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within the power dependent limit specified in the Core Operating Limits Report and withdraw. . . . "

2. Surveillance Requirement (Specification 4.2.3.2)

" F_r^T shall be determined to be within its limit . . . " will be revised to ". . . to be within the 100% power limit. . . . "

3. Incore Detectors, Limiting Condition for Operation (Specification 3.3.3.2)

The section through Item (c) will be deleted and replaced by:

"3.3.3.2 The incore detection system shall be OPERABLE with:

"a. At least 75% of all incore detector locations, and

"b. A minimum of two quadrant symmetric incore detector locations per core quadrant, and

"c. A minimum of nine OPERABLE incore detector segments at each detector segment level."

"An OPERABLE quadrant symmetric incore detector segment group shall consist of a minimum of three OPERABLE rhodium incore detector segments in 90° symmetric fuel assemblies" will be deleted.

4. Figure 2.2-2, Local Power Density--High Trip Setpoint Part 2 (QR2 Versus Y_{12})

The figure plots axial shape index (ASI) versus power. The local power density (LPD) trip set point peak will be lowered from 135% with 0 ASI to 125% with 0 ASI.

Significant Hazards Consideration

The proposed technical specification change has been reviewed against the criteria of 10CFR50.92, and it has been determined not to involve a significant hazards consideration. Specifically, the proposed change does not:

1. Involve a significant increase in the probability or consequences of an accident previously analyzed. There are no analyses or operational aspects of the change which would affect the F_r^T action statement. The new specification on incore detectors is closely based on standard Combustion Engineering technical specifications. This will ensure sufficient numbers and distribution of detectors. The change to the LPD trip set point is required to ensure against fuel centerline melting (<21 kW/ft) in the core with F_r^T increased for Cycle 12 to 1.69. The decrease in LPD operability margin will provide a relative increase in F_r^T

margin, thus extending cycle length. There are no potential impacts on design basis accidents previously analyzed. There are no failure modes affected by the change. As such, there are no design basis accidents adversely affected due to this change.

2. Create the possibility of a new or different kind of accident from any previously analyzed. The F_r Action Statement revision has no accidents associated with it nor would it create any. The incore detector operability revision allows the INPAX code to monitor the core. The revision to the local power density--high trip set point figure is an adjustment within the reactor protection system which will continue to protect the core. There are no failure modes associated with these proposed technical specification changes. Therefore, there are no failure modes which can represent a new unanalyzed accident.
3. Involve a reduction in the margin of safety. The only change with a potential to impact safety limits is the revised LPD limit. Safety analysis results have shown that all acceptance criteria are met. Therefore, there is no challenge to safety limits or other protective boundaries.

The Commission has provided guidance concerning the application of standards in 10CFR50.92 by providing certain examples (51FR7751, March 6, 1986) of amendments that are considered not likely to involve a significant hazards consideration. Although the changes proposed herein are not enveloped by a specific example, the proposed changes will revise the technical specifications to support application of the new incore monitoring code INPAX, which will be used in Cycle 12. The INPAX code, which directly calculates core tilt, will more accurately predict core power distribution.

The Millstone Unit No. 2 Nuclear Review Board has reviewed the attached proposed revision and has concurred with the above determinations.

Based on the information contained in this submittal and the environmental assessment for Millstone Unit No. 2, there are no significant radiological or nonradiological impacts associated with the proposed action, and the proposed license amendment will not have a significant effect on the quality of the human environment.

Since the issuance of this amendment is necessary for the unit to return to operation, NNECO respectfully requests issuance prior to October 1, 1992, with the amendment effective upon date of issuance.

