

FOR DOCKET FILES ONLY

INITIAL

JUN 27 1983

NO SIGNIFICANT HAZARDS CONSIDERATION DETERMINATION  
AND NOTICING ACTION

Docket No. 50-336 Facility: Millstone Station Unit 2  
Licensee: Northeast Nuclear Energy Co. Date of application April 13, 1983

Request for: The proposed changes in the Technical Specifications result primarily from Cycle 6 refueling considerations and the probability that additional steam generator tubes will need to be plugged because of corrosion effects. These changes include: (1) reduction of the required primary coolant flow rate from 362,600 gpm to 350,000 gpm to correspond with a steam generator tube plugging level of 15.3% (2500 tubes); (2) reduction of the total radial peaking factor (Fr) from 1.597 to 1.565 to offset the departure from nucleate boiling (DNB) analysis penalty which would result from reduction of the primary (See attached page)

Initial Determination:

- ( X ) Proposed determination - amendment request involves no significant hazards considerations (NSHC).
- ( ) Final determination - conclusion cannot be made that the amendment request involves NSHC.

Basis for Determination

- ( ) Licensee's NSHC discussion has been reviewed and is accepted.
- ( X ) Other (state).

Considering the plant design changes resulting from the reload and the additional steam generator tube plugging, the licensee's reanalysis of the Loss-of-Reactor-Coolant-Flow event indicates no increase in consequences from the previously docketed analyses. The reanalysis of the hypothetical Control Rod Withdrawal (CRW) event results in a slightly lower Departure from Nucleate Boiling Ratio and the reanalysis of the Steam Line Rupture (SLR) event results in a slightly

Initial Noticing Action: (Attach appropriate notice or input for monthly FRN) (See attached page)

1. ( X ) Monthly FRN. Notice of opportunity for hearing (30 days) and request for comments on proposed NSHC determination -- monthly FRN input is attached (Attachment 8).
2. ( ) Individual FRN. Same notice matter as above. Time does not allow waiting for next monthly FRN (Attachments 9a and 9b).

Request for: (continued)

coolant flow rate to 350,000 gpm; (3) modification of the axial shape index (ASI) monitoring tent to ensure that rated power operation of the reactor core within the tent parameters will not exceed the 15.6 kw/ft linear heat rate following the Cycle 6 refueling; (4) revision of the total planar peaking factor (Fxy) curve to restore its monitoring limits to those at the original Beginning-of-Cycle 5 values; (5) restoration of the control element assembly (CEA) drop time from 3.1 seconds to 2.75 seconds; (6) revision of the auxiliary feedwater (AFW) system action specification 3.7.1.2 to allow 72 hours instead of the present 48 hours to restore the required pumps to operable status, and to impose additional requirements if more than one auxiliary feedwater pump is inoperable. The associated AFW surveillance requirement 4.7.1.2.a.2(b) would also be modified to eliminate demonstration prior to entry into Mode 3 (hot standby) that the steam turbine-driven auxiliary feedwater pump can develop a discharge pressure of greater than or equal to 1080 psig on recirculation flow. The latter change recognizes that insufficient secondary steam pressure may be available in Mode 4 (hot shutdown) for the turbine driven pump to develop the specified pressure.

Basis for Determination: (continued)

greater return to power (reactivity). Although the consequences of CRW and SLR events represent an increase over the current licensing basis and therefore require detailed staff review, they are within the acceptable limits defined in the Millstone Unit 2 Technical Specification bases and the Final Safety Analysis Report (FSAR).

The licensee's reanalysis of the Steam Generator Tube Rupture (SGTR) event for Cycle 6 operation also results in a need for detailed staff review due to a small increase in dose consequences over those docketed in the February 12, 1979 submittal and the FSAR. However, these results are well within acceptable dose criteria and the current Technical Specification limits provide an adequate margin of safety.

The proposed reduction of CEA drop time from 3.1 to 2.75 seconds is a more stringent limitation than currently called for in the technical specifications.

The proposed revision of the AFW system specifications are in accordance with Standard Technical Specifications and are therefore acceptable to the staff.

Based on the foregoing conclusions and using the criteria contained in 10 CFR 50.92, the staff proposes to determine that this application does not involve a significant hazards consideration since the amendment would not involve a significant increase in the consequences of an accident previously evaluated for this facility.

3. ( ) No initial FRN. Valid exigent circumstances exist (evaluated below). Local media notice requesting public comments on proposed NSHC determination is attached (Attachment 10).
4. ( ) No initial FRN or local media notice. A valid emergency situation exists (evaluated below) and there is no time for public notice on proposed NSHC determination. (No attachment)
5. ( ) Individual FRN. Licensee's claim of exigent or emergency circumstances is invalid (evaluated below). Notice of opportunity for hearing (30 days) and request for comments on proposed NSHC determination is attached (Attachments 9a and 9b). Letter of explanation to licensee is also attached.
6. ( ) Individual FRN. Conclusion cannot be made that the amendment request involves NSHC. Notice of opportunity for prior hearing is attached (Attachment 5). Letter to licensee also attached.

Evaluation of exigent or emergency circumstances (if applicable): \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(attach additional pages as needed)

Approvals:

- |  | <u>Date</u>   |
|--|---------------|
| 1. <u>P. H. Leech</u><br>(Project Manager) | <u>6/3/83</u> |
| 2. <u>R. A. Clark</u><br>(Branch Chief)    | <u>6/3/83</u> |
| 3. _____<br>(OELD)                         | _____         |

Additional approvals (for noticing action types 4, 5 and 6):

- |   |               |
|---|---------------|
| 4. <u>J. C. Ye</u><br>(Assistant Director)    | <u>6/6/83</u> |
| 5. _____<br>(Director, Division of Licensing) | _____         |