

NORTHEAST UTILITIES



THE CONNECTICUT LIGHT AND POWER COMPANY
WESTERN MASSACHUSETTS ELECTRIC COMPANY
HOLYOKE WATER POWER COMPANY
NORTHEAST UTILITIES SERVICE COMPANY
NORTHEAST NUCLEAR ENERGY COMPANY

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February 28, 1985

Docket No. 50-4 23

A04533

Director of Nuclear Reactor Regulation
Mr. B. J. Youngblood, Chief
Licensing Branch No. 1
Division of Licensing
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Reference: (1) B. J. Youngblood to W. G. Council, SER Supplement
Outstanding Items (2) and (3), dated December 10, 1984.

Dear Mr. Youngblood:

Millstone Nuclear Power Station, Unit No. 3
Transmittal of a Response to SER Open Item (3)

Enclosed is Northeast Nuclear Energy Company's response to SER open item (3)
concerning protection against postulated high energy line breaks outside
containment.

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If there are any questions, please contact our licensing representative directly.

Very truly yours,

NORTHEAST NUCLEAR ENERGY COMPANY
et. al.

BY NORTHEAST NUCLEAR ENERGY COMPANY
Their Agent

W. G. Council

W. G. Council
Senior Vice President

C. F. Sears

By: C. F. Sears
Vice President

STATE OF CONNECTICUT)
) ss. Berlin
COUNTY OF HARTFORD)

Then personally appeared before me C. F. Sears, who being duly sworn, did state that he is Vice President of Northeast Nuclear Energy Company, an Applicant herein, that he is authorized to execute and file the foregoing information in the name and on behalf of the Applicants herein and that the statements contained in said information are true and correct to the best of his knowledge and belief.

Jennifer Powers

Notary Public
My Commission Expires March 31, 1989



SER Open Item

SER3 - Protection against postulated pipe breaks outside containment (SER Section 3.6.1)

In Section 3.6.1 of the SER, we stated that the applicant has recently provided additional information required for the staff to perform an independent calculation to verify the applicant's analysis of the environmental conditions in a compartment after a high energy line break, and that until we performed the independent calculations, we cannot confirm that it meets the guidelines of Branch Technical Position (BTP) ASB 3-1.

We have now performed these independent calculations to check the applicant's analysis for environmental conditions after a high energy line break. The applicant's analysis of the steam line break did not take into account the possibility of superheated steam conditions occurring as a result of the break. This has been identified by Westinghouse as a generic deficiency in their steam line break analysis. The applicant should revise the FSAR analysis to address this concern. We will report on the resolution of this issue in a future supplement.

Response (3/85)

Northeast Nuclear Energy Company (NNECO) is a member of the Westinghouse Owners Group (WOG) High Energy Line Break (HELB)/Superheated Blowdowns Outside Containment (SBOC) Subgroup. This subgroup has been formed to address the impact of superheated steam blowdowns from high energy line breaks (e.g. main steam line breaks) outside containment on the Environmental Qualification (EQ) of the equipment located outside containment. The program will provide generic mass/energy releases to evaluate the impact of superheated steam on the EQ of equipment outside containment. With generic blowdowns available, the EQ evaluations can be done by each utility to reflect the plant specific environment conditions outside containment. The blowdowns will address the full range of break sizes including double ended ruptures of the main steam line.

The WOG HELB/SBOC Subgroup and Westinghouse Representatives met with the NRC in Bethesda, Maryland on January 30, 1985 to discuss the program to resolve the HELB/SBOC licensing issues. The overall program, which is proposed to resolve the generic aspects of the HELB/SBOC licensing issues was outlined. The schedule for resolution of the issue was also discussed. It is expected that the final report will be issued in the middle of September, 1985. During discussions following the subgroup presentation, the NRC stated they would consider changing the licensing issues (SER open item) to a confirmatory item based on a commitment by the applicant to resolve the issues as a part of the WOG HELB/SBOC Subgroup. Upon receipt of the WOG HELB/SBOC Subgroup mass and energy release data, NNECO will establish a schedule to complete the plant specific reviews. Subsequent corrective action, if necessary, will be identified by NNECO to the NRC Staff. With this commitment, we request the NRC to change this licensing issue (SER open item) a confirmatory item.