

# 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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July 20, 1984

Docket No. 50-423  
B11272

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

Dear Mr. Youngblood:

Millstone Nuclear Power Station, Unit No. 3  
Additional Information Related to the  
Design of Component Supports

On July 13, 1984, a telephone conversation was held among representatives from the NRC Mechanical Engineering Branch (MEB), Northeast Nuclear Energy Company (NNECO) and Stone & Webster to discuss the design of component supports for Millstone Unit 3, and in particular, how LOCA loads were considered in the design of those supports. In that conversation, NNECO committed to provide additional information to clarify how LOCA loads were considered in the design of component supports at Millstone Unit 3. The attached Table 3.9B-9B provides the loading combinations for ASME III Class 1, 2, and 3 component supports. This table will be incorporated in a subsequent FSAR amendment along with the appropriate revisions to the text. We believe the Staff will find this information responsive to their concerns in this matter.

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

Very truly yours,

NORTHEAST NUCLEAR ENERGY COMPANY  
et al

BY NORTHEAST NUCLEAR ENERGY COMPANY  
Their Agent

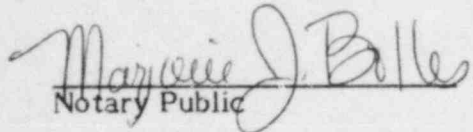
W. G. Council  
W. G. Council  
Senior Vice President

J. P. Opeka  
By: J. P. Opeka  
Vice President, Nuclear Operations

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

Then personally appeared before me J. F. Opeka, 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.

  
Notary Public

My Commission Expires March 31, 1988

MNPS-3 FSAR  
Table 3.9B - 9B

Load Combinations for ASME Class 1, 2, & 3 Component Supports

<u>Plant Operating Condition</u>	<u>Load Combination</u>
Normal	$D + T + P (d+r)$
Upset	$D + T + E + P (d+r+e+a+h)$
Emergency	$D + T + E' + P (d + r + e' + a' + h)$
Faulted	$D + T + E' + A1 + P (d + r + e' + a' + h + a1)$

Loadings applicable to component supports

- D - Sustained mechanical loads, including deadweight of equipment and contents
- T - Loads on supports due to thermal expansion (constraint of free end displacement) of components
- E - Inertia effects of the OBE
- E' - Inertia effects of the SSE
- A1 - Loads resulting from primary loop pipe rupture asymmetric pressure effects (see FSAR 3.9.B.1.4)
- P - Piping associated loads as follows:
  - d - sustained deadweight of piping contents and insulation
  - r - loads induced on component supports due to thermal and pressure growth of piping for appropriate plant condition
  - e - inertia effects of OBE
  - e' - inertia effects of SSE
  - a - loads induced in component supports due to response of civil structure for OBE (OBE anchor movement)
  - a' - loads induced in component supports due to response of civil structure of SSE (SSE anchor movement)
  - h - loads resulting from occasional loads other than seismic (water hammer, steam hammer, safety relief valve opening or closing, etc.) as appropriate for plant condition.
  - a1 - loads induced in component supports due to the effects of LOCA.