

# 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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(203) 666-6911

June 26, 1984

Docket No. 50-423  
B11247

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) W. G. Council to B. J. Youngblood, Millstone Nuclear Power Station, Unit 3, Meeting Summary of NRC Structural Audit, dated March 23, 1984.

Dear Mr. Youngblood:

Millstone Nuclear Power Station, Unit No. 3  
Technical Review Meeting Summary  
Structural Confirmatory Items

On June 14, 1984 representatives from Northeast Utilities Service Company (NUSCO) and Stone & Webster Engineering Corporation (SWEC) met with Mr. Nilesh Chokshi and Mr. David Jeng, Structural and Geotechnical Engineering Branch (SGEB), to present additional information as requested on several confirmatory items resulting from the Millstone Unit 3 Structural Audit (Items 41 and 15 - Reference 1).

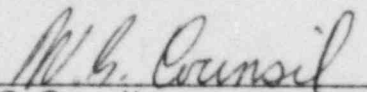
Attachment I is a summary of the meeting, outlining items requiring NUSCO action. NUSCO has committed to provide the information requested as it becomes available, and it was agreed that the items are of confirmatory status.

If you have any concerns related to the information contained herein, please contact our licensing representative, Ms. C. J. Shaffer at (203) 665-3285.

Very truly yours,

NORTHEAST NUCLEAR ENERGY COMPANY  
et. al.

BY NORTHEAST NUCLEAR ENERGY COMPANY  
Their Agent

  
W. G. Council  
Senior Vice President

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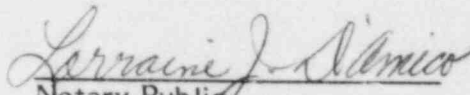
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cc: Mr. David Jeng - NRC, Structural and Geotechnical Engineering Branch  
Mr. Niles Chokshi - NRC, Structural and Geotechnical Engineering Branch

STATE OF CONNECTICUT)

COUNTY OF HARTFORD ) ss. Berlin

Then personally appeared before me W. G. Counsil, who being duly sworn, did state that he is Senior 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

## ATTACHMENT I

### STRUCTURAL AND GEOTECHNICAL ENGINEERING BRANCH MEETING SUMMARY - JUNE 14, 1984

#### I. Structural Audit Item 41 -

Discussion of Stone & Webster Engineering Corporation's Missile Barrier Interaction Topical Report (SWEC - 7703)

- A. Additional data is required to justify ductility ratio and impulse values for the auto impact study. The applicant will provide this information.
- B. Ductility Ratio - The applicant will (1) survey all CAT 1 structures exterior walls above ground level and prepare a table of panel sizes, (2) identify any panels less than 24-inches thick and (3) identify the limiting panel size. If the limiting panel size should be less than 10' x 10', we will then look at the ductility ratio.

#### II. Pressurizer Subcompartment Pressure

- A. Pressurizer cubicle pressures remain an open item in the Containment Systems Branch (CSB). As agreed by D. Jeng and N. Chokshi the lower cubicle pressure derived by the CSB staff appears to be very high compared to the design value. Discussion of criteria for examining over-pressurization structurally was determined to be inappropriate until the large discrepancy in values can be resolved. Representatives of the applicant and the CSB are to review their analyses and resolve these differences. Once that understanding is reached, the structural criteria may have to be further discussed with SGEB representatives.

#### III. Qualification of Leak Rate Test Channels in the Containment Liner for SAR Loadings

- A. The applicant will determine the capability of the channels to withstand combined pressure and temperature loads.

#### IV. Structural Audit Item 15 - Containment Failure Mode (PSS)

- A. The applicant will provide reference for the use of 160 psi shear value for containment concrete.
- B. The applicant will make the headings in Tables 2-4, 2-6 and 2-7 consistent (mean to median and normal distribution).
- C. The applicant has presently defined the median containment overpressure at which the leak criteria is exceeded. The applicant will also provide the lower bound pressure at which the leak criteria is exceeded.

- D. The critical pressure for the buckling analysis for the equipment hatch door appears high. The applicant will review the analysis and provide comment.
- E. A table similar to Table 8-2 will be provided varying only the corresponding material properties for indication of the first yield of the liner.
- F. A meeting will be scheduled for the week of June 25 to discuss remaining concerns regarding estimation of containment failure probability, in particular, the use of Weibull distribution functions and the determination of their parameters.