

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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April 26, 1985

Docket No. 50-423
B11521

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 letter to W. G. Counsil, SER for Millstone Nuclear Power Station, Unit No. 3, dated July, 1984.
 - (2) W. G. Counsil letter to B. J. Youngblood, Response to SER Open Item (2), dated August 20, 1984.
 - (3) B. J. Youngblood to W. G. Counsil, SER Supplement for Millstone 3, dated December 10, 1984.

Dear Mr. Youngblood:

Millstone Nuclear Power Station, Unit No. 3
Response to SER Open Item (2)

In Reference (2), Northeast Nuclear Energy Company (NNECO) transmitted a response to SER Open Item (2) (Reference 1) regarding tornado-missile protection for the emergency diesel generator exhaust piping. It was indicated that required missile trajectories necessary to cause damage to the exhaust piping coincident with the elevation required for missile damage are not credible and that the proximity of an adjacent building decreases the existence of a credible missile path. The NRC did not accept this position and stated that the emergency diesel generator exhaust piping does not meet the guidelines of Standard Review Plan (SRP) 3.5.2 and Regulatory Guide 1.117, "Tornado Design Classification," and outlined two options to resolve this open item (Reference 3). These were:

- (1) An analysis to demonstrate that if a tornado missile does strike the emergency diesel generator exhaust piping, it will not crimp upstream of the access hatch or
- (2) A PRA demonstrating that the probability of significant damage to the emergency diesel generator exhaust piping due to tornado missiles satisfies acceptable criteria outlined in Reference 3.

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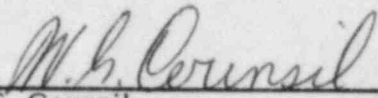
With regard to Option 2, a probabilistic analysis has been performed to estimate the risk of tornado-generated missiles entering any of the four openings of concern in the Emergency Diesel Generator Enclosure (EGE). The analysis was made based upon a site-specific survey, a site-specific tornado occurrence analysis, and the TORMIS computer code, which simulates the effects of tornado missiles. The attached summary report documents the tornado occurrence data, summarizes the TORMIS input data and presents the results of the probabilistic analysis. The report concludes that the mean probability value (conservative) of a tornado occurring and generating a missile entering any one of the four EGE openings is approximately 1×10^{-6} per year. This probability satisfies the criteria outlined in Option 2 of Reference (3). Therefore, no modifications are required. This response should resolve the Staff's concern regarding SER Open Item (2).

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

Very truly yours,

NORTHEAST NUCLEAR ENERGY COMPANY
et. al.

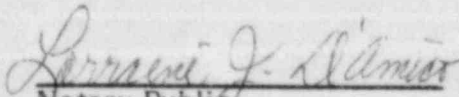
BY NORTHEAST NUCLEAR ENERGY COMPANY
Their Agent



W. G. Council
Senior Vice President

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

Then personally appeared before me W. G. Council, 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