

# NORTHEAST UTILITIES



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

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November 8, 1979

Docket No. 50-245

Director of Nuclear Reactor Regulation  
Attn: Mr. D. L. Ziemann, Chief  
Operating Reactors Branch #2  
U. S. Nuclear Regulatory Commission  
Washington, D. C. 20555

Gentlemen:

Millstone Nuclear Power Station, Unit No. 1  
SEP Topic III-5.A  
High Energy Line Breaks Inside Containment

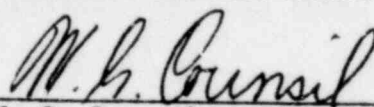
In accordance with the previously established criteria for performing an analysis of SEP Topic III-5.A, "High Energy Line Breaks Inside Containment", the interaction matrices described in Section 7.3 of the report have been completed. In those instances where a potentially adverse interaction exists, a specific safe shutdown scenario was developed and is provided in Appendix C.

The evaluation was conducted utilizing the "effects-oriented" approach. The conclusions resulting from this study are provided in Section 8 of the report and are summarized below. For 346 out of a total of 349 postulated break locations, acceptable consequences result. The three exceptions to this conclusion involve break locations on Main Steam Line 3, and the resultant potential interaction with the control rod drive system. Various alternatives exist to address this concern, among them a mechanistic evaluation of the interaction.

With the exception of the above interaction which will be the subject of a supplement to this report, Northeast Nuclear Energy Company (NNECO) has concluded that the attached evaluation serves as the basis for resolution of the subject SEP Topic.

Very truly yours,

NORTHEAST NUCLEAR ENERGY COMPANY

  
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W. G. Council  
Vice President

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