

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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March 3, 1982

Docket No. 50-423
AEC-MP3-269
B10447



Mr. Ronald C. Haynes
Region 1
Office of Inspection and Enforcement
U. S. Nuclear Regulatory Commission
631 Park Avenue
King of Prussia, PA 19406

References: (1) W. G. Council letter to B. H. Grier, Reporting of
Deficiencies in Design and Construction, dated
October 9, 1980.

Gentlemen:

Millstone Nuclear Power Station, Unit No. 3
Reporting of Potential Significant Deficiencies in
Design and Construction; Final Report SD-9
Main Feedline Rupture with Failure of Blowdown System

As required by Title 10, Code of Federal Regulations Part 50, Paragraph 55(e), Northeast Nuclear Energy Company (NNECO) reported a potential significant deficiency in the design of Millstone Unit No. 3 in Reference (1). As described in Reference (1), NNECO was notified by Westinghouse Electric Corporation, Water Reactor Division, that a main feedline rupture with an assumed failure in the steam generator blowdown system could lead to reduced cooling to the steam generator.

In response to the above potential design deficiency, the design of the affected systems was reviewed and a design change was initiated. Based upon the current system design we have reached the following conclusions:

The present Millstone Unit No. 3 design has been modified to include cavitating venturies to preclude uncontrollable auxiliary feedwater flows to a faulted steam generator in the event of steam generator blowdown isolation valve failure and concurrent main feedwater line rupture. The cavitating venturies are designed to ensure adequate flow is maintained to the intact steam generators while maintaining the maximum auxiliary feedwater flow so as to prevent pump runout and a subsequent pump trip.

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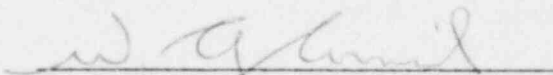
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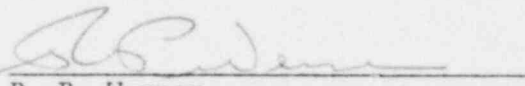
Based upon the above system review and corrective actions, we consider Millstone Unit No. 3 to be free of the reported potential significant deficiency.

This letter constitutes our final report closing out all items related to SD-9. We trust the above information satisfactorily responds to your concerns.

Very truly yours,

NORTHEAST NUCLEAR ENERGY COMPANY


W. G. Council
Senior Vice President

by: 
R. P. Werner
Vice President
Generation Engineering & Construction

cc: Mr. E. J. Brunner, Chief
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