

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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May 23, 1988

Docket Nos. 50-213

50-336

50-423

B12898

Re: Generic Letter 88-03

U.S. Nuclear Regulatory Commission
Attn: Document Control Desk
Washington, D.C. 20555

Gentlemen:

Haddam Neck Plant
Millstone Nuclear Power Station, Unit Nos. 2 and 3
Resolution of Generic Safety Issue 93 (MPA Item B-98)
"Steam Binding of Auxiliary Feedwater Pumps"
(Generic Letter 88-03)

Connecticut Yankee Atomic Power Company (CYAPCO) and Northeast Nuclear Energy Company (NNECO) hereby provide the NRC Staff with information confirming implementation of the monitoring and corrective procedures identified to resolve the "Steam Binding of Auxiliary Feedwater Pumps" issue.

Background

The "Steam Binding of Auxiliary Feedwater Pumps" issue was recommended as a Generic Safety Issue as a result of an Analysis and Evaluation of Operational Data (AEOD) engineering evaluation report in 1983⁽¹⁾ and on December 31, 1984 Generic Safety Issue No. 93 was issued. The NRC has also issued IE Information Notice No. 84-06, IE Bulletin No. 85-01, and Generic Letter No. 88-03 on this issue.

Millstone Unit Nos. 2 and 3 were requested to respond to the IE Bulletin. Haddam Neck was not asked to respond. NNECO and CYAPCO hereby provide the specifics of their response to this issue.

(1) See memorandum for R. DeYoung and H. Denton from C. Heltemes, "Vapor Binding of Auxiliary Feedwater Pumps," dated November 21, 1983.

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Millstone Unit Nos. 2 and 3

In letters dated February 28, 1986 and March 20, 1986, NNECO provided the Staff with lists of actions taken at the request of IE Bulletin 85-01 for Millstone Unit Nos. 2 and 3 respectively.⁽²⁾ The actions specified therein remain in effect now and will remain in effect in the future.

Haddam Neck Plant

CYAPCO has addressed this issue at the Haddam Neck Plant through both plant modification and operator procedures. Specifically, a temperature detector was installed in 1978 to continually monitor for backleakage through the auxiliary feedwater discharge piping. The temperature reads out in the control room. An annunciator alarm on the main control board provides further assurance that backleakage would be detected.

In the event backleakage occurs in the Haddam Neck auxiliary feedwater pump discharge piping, operating procedure ANN 4.13-21 directs the operators in restoring the system to an operable status.

The NRC's draft report⁽³⁾ includes Haddam Neck Plant ISAP Topic No. 1.58, Steam Binding of Auxiliary Feedwater Pumps. In the integrated assessment, CYAPCO evaluated potential further modifications to detect leakage through an alternate flow path between the auxiliary feedwater pumps and the steam generators, and found minimal safety benefit. In the draft report, the NRC Staff concluded that any modification beyond that already installed to prevent steam binding would have a negligible effect on plant safety. The Staff rates the implementation priority for any additional MFW to AFW leakage detection method as low.

Based on the integrated assessment and the Staff's review, CYAPCO proposed to drop further consideration of this project.

Conclusion

CYAPCO and NNECO respectfully request that the Staff close this issue for the Haddam Neck Plant and Millstone Unit Nos. 2 and 3. In addition, please note that resolution of the "Steam Binding in Auxiliary Feedwater Pumps" issue will close ISAP Topic No. 1.58 for the Haddam Neck Plant.

(2) See the February 28, 1986 J. F. Opeka letter to T. E. Murley, "IE Bulletin 85-01, Steam Binding of Auxiliary Feedwater Pumps" for the Millstone Unit No. 2 response and the March 20, 1986 similar letter for the Millstone Unit No. 3 response.

(3) See NUREG-1185, Vol. 1, "Haddam Neck Plant, Integrated Safety Assessment Report" (Draft Report), dated July 1987.

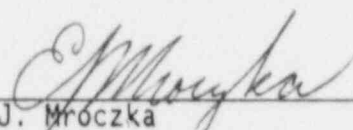
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An estimated 40 man-hours of effort were expended in the response to this generic letter.

If you have any questions, please contact us.

Very truly yours,

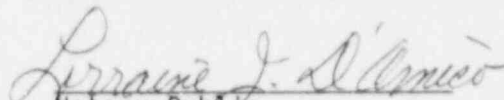
CONNECTICUT YANKEE ATOMIC POWER COMPANY
NORTHEAST NUCLEAR ENERGY COMPANY


E. J. Mroczka
Senior Vice President

cc: W. T. Russell, Region I Administrator
A. B. Wang, NRC Project Manager, Haddam Neck Plant
J. T. Shedlosky, Senior Resident Inspector, Haddam Neck Plant
D. H. Jaffe, NRC Project Manager, Millstone Unit No. 2
R. L. Ferguson, NRC Project Manager, Millstone Unit No. 3
W. J. Raymond, Senior Resident Inspector, Millstone Unit Nos. 1, 2 and 3

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

Then personally appeared before me, E. J. Mroczka, who being duly sworn, did state that he is Senior Vice President of Northeast Nuclear Energy Company and Connecticut Yankee Atomic Power Company, Licensees herein, that he is authorized to execute and file the foregoing information in the name and on behalf of the Licensees 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, 1993