

# 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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August 14, 1979

Docket No. 50-336

Director Nuclear Reactor Regulation  
Attn: Mr. R. Reid, Chief  
Operating Reactors Branch #4  
U. S. Nuclear Regulatory Commission  
Washington, D. C. 20555

References: (1) W. G. Counsil to R. Reid, dated May 21, 1979

Gentlemen:

Millstone Nuclear Power Station  
Unit No. 2  
Aerated Liquid Radwaste Evaporator

In Reference (1), Northeast Nuclear Energy Company (NNECO) informed the NRC Staff that the radwaste evaporator in the liquid radwaste processing system had been out of service since the third quarter of 1978, due to corrosion problems. Since that time, the mixed bed demineralizer and associated filters have been treating the aerated liquid radwaste as justified by 10CFR50, Appendix I analyses. Furthermore, the need for replacing or repairing the aerated radwaste evaporator has been investigated. It has been concluded that replacement or repair of the unit is unnecessary and unwarranted based on radiological and financial considerations delineated in Reference (1).

The following data is submitted in response to the verbal request made by the Staff during the meeting of July 18, 1979, regarding the economic basis for not replacing the aerated waste evaporator.

## Option

1. Cross connect existing aerated waste system with evaporators located in Millstone Unit No. 2 Condensate Polishing Facility.

Estimated Cost:	\$2,900,000
Operating Cost:	\$ 150,000/year

2. Replace existing evaporator with identical evaporator except materials of construction (Incoloy 825 in lieu of 304 stainless steel).

Estimated Cost:	\$2,900,000*
Operating Cost:	\$ 145,000/year

\*Does not include costs associated with required reactor plant shutdown.

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3. Install a replacement evaporator in the waste gas compressor room located diagonally beneath existing evaporator.

Estimated Cost: \$4,000,000  
Operating Cost: \$ 145,000/year

4. Construct a seismic addition to the Millstone Unit No. 2 auxiliary building to house one (1) evaporator.

Estimated Cost: \$6,600,000  
Operating Cost: \$ 148,300/year

5. Install a deborating ion exchanger (disposable liner).

Estimated Cost: \$ 345,000  
Operating Cost: \$1,600,000/year

We trust this information is responsive to the request by the Staff for further documentation on the docket in support of the conclusions in Item 4 of Reference (1).

Very truly yours,

NORTHEAST NUCLEAR ENERGY COMPANY

*W. G. Council*

W. G. Council  
Vice President

*W. F. Fee*

By: W. F. Fee  
Vice President