

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 27, 1983

Docket No. 50-245
B10762

Director of Nuclear Reactor Regulation
Attn: Mr. Dennis M. Crutchfield, Chief
Operating Reactors Branch #5
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Reference: (1) W. G. Council letter to D. M. Crutchfield, dated
October 13, 1982.

Gentlemen:

Millstone Nuclear Power Station, Unit No. 1
BWR Feedwater Nozzle and Control Rod Drive
Return Line Nozzle Cracking

In Reference (1) Northeast Nuclear Energy Company (NNECO) notified the Staff that the proposed reroute of the Reactor Water Cleanup System to all feedwater nozzles had been rescheduled to the 1984 refueling outage. NNECO has recently completed a detailed value-impact analysis which has caused the reroute to be cancelled. Our analysis indicates that if the triple-sleeve spargers do not leak, the reroute would have essentially no effect on the potential for fatigue cracking in the feedwater nozzles. This conclusion is based on General Electric's NEDE-21821-A (cited in NUREG-0619), which shows that the reroute can have a dramatic effect on fatigue usage factor only if the sparger is leaking substantially (i.e., more than 0.5 gpm).

In order to detect any leakage of the triple-sleeve sparger new thermocouples were installed on the vessel feedwater nozzles during the 1982 refueling outage. The thermocouple data will be analyzed to determine the actual leak rate, if any, and this information will be factored into any future re-evaluations of this reroute.

NNECO also expects to minimize radiation exposure by cancelling the proposed reroute. The estimated 5 man rem per outage that would be saved by eliminating the augmented ISI of the existing return line welds is more than offset by saving the estimated 36 man rem (with lead shielding) the reroute would cost and the elimination of the rerouted return line as a new source in relatively clean areas.

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Should the Staff have any questions on this matter, please feel free to contact us.

Very truly yours,

NORTHEAST NUCLEAR ENERGY COMPANY

W. G. Council
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Senior Vice President

C. Frederick Sears
By: C. F. Sears
Vice President Nuclear and
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