Central files

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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(203) 666-6911

April 15, 1981

Docket No. 50-245
A01171

RECEIVED
MAY 04 1981
U.S. NUCLEAR REGULATORY COMMISSION

Mr. Boyce H. Grier, Director
Region I
Office of Inspection and Enforcement
U. S. Nuclear Regulatory Commission
631 Park Avenue
King of Prussia, PA 19406

References: (1) R. L. Gridley (GE) letter to W. G. Johnston (NRC), dated April 8, 1981.
(2) "Evaluation of Control Blade Lifetime With Potential Loss of B_4C," NEDE-24226-P (General Electric Proprietary) and NEDO-24226, dated December 1979; NEDE-24226-P (General Electric Proprietary) Supplement 1, dated March 1981.
(3) B. H. Grier letter to W. G. Counsil, dated August 29, 1980, transmitting IE Bulletin No. 79-26, Revision 1.

Gentlemen:

Millstone Nuclear Power Station, Unit No. 1
Boron Loss from BWR Control Blades

In Reference (1), General Electric submitted copies to the NRC Staff of Licensing Topical Reports, "Control Blade Examination Results and Response to Item 4 of IE Bulletin 79-26," NEDE-24325-P (General Electric Proprietary) and NEDO-24325, dated March 1981. Northeast Nuclear Energy Company (NNECO) hereby references General Electric's submittal to satisfy the requirements of Item 4 of Reference (3).

Reference (1) provides the results of additional post-irradiation examinations, and comparisons of the post-irradiation examination results to a new boron depletion analytical model developed by General Electric. The boron depletion model described in Reference (1) is shown to be in good agreement with the post-irradiation examination data.

General Electric demonstrates in Reference (1) that the control blade destructive examination data presented in References (1) and (2) are applicable to and representative of, the control blades in Millstone Unit No. 1. The reports confirm that the loss of boron based on 50% local boron depletion is predictable, and is not affected by plant operating parameters.

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We trust that the above information adequately addresses Item 4 of Reference (3). Should you have any questions, please feel free to contact us.

Very truly yours,

NORTHEAST NUCLEAR ENERGY COMPANY

W. G. Counsil
Senior Vice President