

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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June 15, 1984

Docket No. 50-423
B11227

Director of Nuclear Reactor Regulation
Mr. B. J. Youngblood, Chief
Licensing Branch No. 1
Division of Licensing
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Reference: (1) B. J. Youngblood letter to W. G. Council, Draft SER, dated December 20, 1983.

Gentlemen:

Millstone Nuclear Power Station, Unit No. 3
Response to Materials Engineering Branch DSER 3.5.1.3

Attached is the Northeast Nuclear Energy Company (NNECO) response to the Materials Engineering Branch DSER turbine missile issue and an acceptable turbine system maintenance program. We expect this response will resolve the Staff's concerns regarding turbine missiles.

If there are any questions, please contact our licensing representative.

Very truly yours,

NORTHEAST NUCLEAR ENERGY COMPANY
et. al.

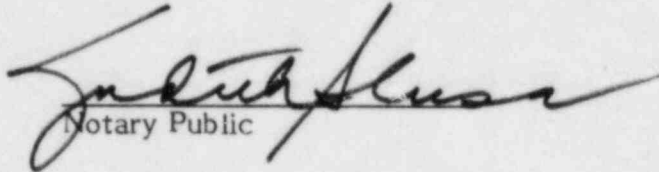
BY NORTHEAST NUCLEAR ENERGY COMPANY
Their Agent

W. G. Council
Senior Vice President

By: W. F. Fee
Executive Vice President
Engineering and Operations

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

Then personally appeared before me W. F. Fee, who being duly sworn, did state that he is Executive Vice President of Northeast Nuclear Energy Company, an Applicant herein, that he is authorized to execute and file the foregoing information in the name and on behalf of the Applicants 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 3/31/88.

Millstone Nuclear Power Station, Unit No. 3
Materials Engineering Branch

MTEB Turbine Missiles (DSER 3.5.1.3)

The staff has reviewed the Millstone Unit 3 facility with regard to the turbine missile issue and concludes that the probability of unacceptable damage to safety-related systems and components as a result of turbine missiles is acceptably low (i.e., less than 10^{-7} per year) provided that the turbine missile generation probability is maintained at 10^{-5} per reactor year or less for the life of the plant by an acceptable maintenance program.

The Staff considers the turbine missile issue as a confirmatory item if the applicant agrees:

1. to submit for NRC approval, within 3 years of obtaining an operating license, a turbine system maintenance program based on the manufacturer's calculations of missile generation probabilities or
2. to volumetrically inspect all low-pressure turbine rotors at the second refueling outage and at every other (alternate) refueling outage thereafter until a maintenance program is approved by the staff and to conduct turbine steam valve maintenance (following initiation of power output) in accordance with present NRC recommendations as stated in SRP Section 10.2.

Response:

NNECO agrees to submit for NRC approval, within three years of obtaining an operating license, a turbine system maintenance program based on the manufacturer's calculations of missile generation probabilities with the option of conducting an independent review and analysis if so desired.