

NORTHEAST UTILITIES



THE CONNECTICUT LIGHT AND POWER COMPANY
WESTERN MASSACHUSETTS ELECTRIC COMPANY
HARTFORD WATER POWER COMPANY
NORTHEAST UTILITIES SERVICE COMPANY
NORTHEAST NUCLEAR ENERGY COMPANY

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December 17, 1985

Docket No. 50-245
B11923

Director of Nuclear Reactor Regulation
Attn: Mr. C. I. Grimes, Director
Integrated Safety Assessment Project Directorate
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Gentlemen:

Millstone Nuclear Power Station, Unit No. 1
Pressure-Temperature Operating Limits Curves

In April, 1985⁽¹⁾ Northeast Nuclear Energy Company (NNECO) provided the results of neutron fluence measurement, Charpy tests, and tensile strength tests for material contained in surveillance capsule number 2 from the Millstone Unit No. 1 reactor vessel. In the cover letter to the report, NNECO indicated that proposed revisions to the pressure-temperature (PT) operating limits curves would be provided as a license amendment request prior to the 1985 refueling outage.

The PT curves now in effect for Millstone Unit No. 1 are valid to an exposure value of 9×10^6 MWDth or 12.26 Effective Full Power Years (EFPY). The results of the flux wire testing on the surveillance capsule material removed during the 1984 refuel outage indicated a shift in fluence from the predicted value of 1.07×10^{11} neutrons/cm² to a calculated value of 5.02×10^{10} neutrons/cm². The new test results indicate that the PT curves now in effect are valid to 8.6×10^6 MWDth or 11.7 EFPY rather than the anticipated 12.26 EFPY. Therefore, the PT curves now in effect are valid for another 1.62 EFPY.

It is the intention of NNECO to evaluate the PT curves prepared by the General Electric Company and propose an amendment to the operating license for Millstone Unit No. 1 on or before July 1, 1986.

- (1) W. G. Council letter to Director, Office of Nuclear Reactor Regulation, "Millstone Unit No. 1 Reactor Vessel Material Surveillance Program Results," dated April 12, 1985.

ADD: PWR - B/BC's TECH SUPPORT

AD - D. CRUTCHFIELD (Ltr only)
EB (W. JOHNSTON)
RSB (THOMAS)
EICSB (PARR)
FOB (W. REGAN)

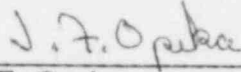
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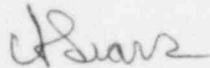
Should you have any questions please feel free to contact us.

Very truly yours,

NORTHEAST NUCLEAR ENERGY COMPANY



J. F. Opeka
Senior Vice President



By: C. F. Sears
Vice President