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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

General Offices • Selden Street, Berlin, Connecticut

P.O. BOX 270
HARTFORD, CONNECTICUT 06101
(203) 666-6911

April 7, 1982

Docket No. 50-336
A02357

Director of Nuclear Reactor Regulation
Attn: Mr. Robert A. Clark, Chief
Operating Reactors Branch #3
U. S. Nuclear Regulatory Commission
Washington, D.C. 20555

Reference: (1) R. A. Clark letter to W. G. Counsil, dated March 5, 1982, transmitting Amendment No. 73 to Facility Operating License No. DPR-65.

Gentlemen:

Millstone Nuclear Power Station, Unit No. 2
Baseline Primary-to-Secondary Leakage Rates

In accordance with the reporting requirements of Technical Specification 3/4.7.1.4, Table 4.7-2, as issued in Reference (1) for Cycle 5 operation of Millstone Unit No. 2, Northeast Nuclear Energy Company (NNECO) hereby provides the following information.

The primary-to-secondary leakage rate in each steam generator has been determined to be:

0.012 gpm	Steam Generator No. 1
<0.005 gpm	Steam Generator No. 2

These leakage rate measurements were completed in Mode 1 during steady state operating conditions at a power level of approximately 2700 MW(th). The plant achieved equilibrium operation in Mode 1 on March 26, 1982.

Millstone Unit No. 2 tripped from full power operating conditions on March 23, 1982. As a result of this trip, the activity measured in the steam generators increased resulting in a change in the indicated leakage rate. NNECO performed additional measurements of the primary-to-secondary leakage rates following this Plant trip in an effort to trend these variations.

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The results of the additional leak rate measurements confirm that an increase in the indicated leak rate will occur after a Plant trip with subsequent decrease to a lower value upon return to steady state operation. These additional leak rate determinations clearly demonstrate the effects of a Plant trip on the indicated primary-to-secondary leakage rate as well as the need to conduct leak rate measurements during periods of steady state, equilibrium operating conditions.

We trust you find this information satisfactory.

Very truly yours,

NORTHEAST NUCLEAR ENERGY COMPANY

W. G. Counsil

W. G. Counsil
Senior Vice President