

NORTHEAST UTILITIES



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

General Offices • Seiden Street, Berlin, Connecticut

P.O. BOX 270
HARTFORD, CONNECTICUT 06141-0270
(203) 665-5000

September 18, 1985

Docket No. 50-423
F0816A

Dr. Thomas E. Murley
Regional Administrator
U.S. Nuclear Regulatory Commission
Region I
631 Park Avenue
King of Prussia, PA 19406

- References: (1) Inspection & Enforcement Notice 85-45.
(2) J. F. Opeka letter to T. E. Murley, F0809A, dated July 26, 1985.

Dear Dr. Murley:

Millstone Nuclear Power Station, Unit No. 3
Reporting of Potential Significant Deficiencies
in Accordance with 10CFR50.55(e):
Seismic Interaction Between the
Flux Mapping System and Seal Table (SD-85)

In a June 26, 1985 telephone conversation between your Mr. H. F. VanKessel and our Mr. P. J. Quinlan, Northeast Nuclear Energy Company (NNECO) reported a potential significant deficiency in the design of Millstone Unit No. 3 in accordance with 10CFR50.55(e). The significant deficiency involves the potential seismic interaction of the flux mapping system with the seal table/bottom mounted instrumentation, Reference (1).

This condition was under evaluation by both Stone & Webster Engineering Corporation and Westinghouse, as noted in Reference (2) and the evaluation is now complete.

The equipment was reviewed to ensure that the flux mapping equipment would not become a gravity missile during a seismic event and interact with the seal table pressure boundary. The support for the equipment was seismically analyzed by Stone & Webster Engineering Corporation during the original design phase. The support is designed such that the flux mapping equipment could not become a gravity missile.

However, an evaluation of the installation indicates that the equipment anchorage is not sufficient to limit the displacement of the tubing connecting the flux mapping equipment to the seal table. Although failure of the reactor

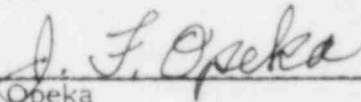
coolant system pressure boundary is unlikely, the reaction at the tubing to seal table interface due to the equipment displacement is extremely difficult to analytically predict. Therefore, supports will be added to the equipment to ensure that the relative displacement between the flux mapping equipment and seal table will be limited to acceptable levels.

If this deficiency had remained undetected, unacceptable consequences may have resulted during a seismic event (small break LOCA). Therefore this is considered to be a significant deficiency in the design of Millstone Unit No. 3 in accordance with 10CFR50.55(e).

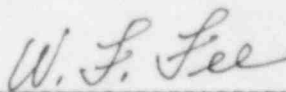
As such, we consider this to be our final report for SD-85. This final report is being submitted on September 18 rather than September 12, as discussed with your Mr. D. Lipinski. We trust that the above information satisfactorily responds to your concerns.

Very truly yours,

NORTHEAST NUCLEAR ENERGY COMPANY



J. F. Opeka
Senior Vice President



By: W. F. Fee
Executive Vice President