

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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October 16, 1984

Docket No. 50-423
F0563A

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

- References: (1) W. G. Council letter to T. E. Murley, F0489A, dated March 7, 1984.
- (2) W. G. Council letter to T. E. Murley, F0511A, dated May 22, 1984.

Dear Dr. Murley:

Millstone Nuclear Power Station, Unit No. 3
Reporting of Potential Significant Deficiencies
in Design and Construction: Service Water
Pipe Trunnions (SD-52)

In a February 6, 1984 telephone conversation between your Mr. T. Elsasser and our Mr. R. W. Vogel, Northeast Nuclear Energy Company (NNECO) reported a potential significant deficiency in the construction of Millstone Unit No. 3 as required by 10CFR50.55(e). The potential significant deficiency involved fabrication of integral welded carbon steel trunnions to copper nickel piping in the Service Water System. Deformation of the copper nickel pipes in the vicinity of the carbon steel trunnions was observed. Two attachment weldments leaked during hydrostatic tests (see References 1 and 2).

Our architect-engineer, Stone & Webster Engineering Corporation, and our engineering staff have completed their evaluation of this significant deficiency. Based on this evaluation, the following corrective actions were taken to eliminate this design deficiency:

1. All previously installed integrally welded carbon steel trunnion attachments to copper nickel piping were replaced.
2. All integrally welded carbon steel attachments to copper nickel piping were redesigned.
3. The redesign eliminated trunnion attachments where possible and replaced them with non-integral support designs. In cases where welded trunnion supports were still required, carbon steel trunnions were replaced with copper-nickel trunnions.

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We consider this to be our final report closing out SD-52. We trust that the above information satisfactorily responds to your concerns.

Very truly yours,

NORTHEAST NUCLEAR ENERGY COMPANY

W. G. Council

W. G. Council
Senior Vice President

C. F. Sears

By: C. F. Sears
Vice President

cc: Mr. R. C. DeYoung, Director
Division of Inspection and Enforcement
U. S. Nuclear Regulatory Commission
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