

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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May 22, 1984

Docket No. 50-423
F0511A

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

Reference: (1) W. G. Counsil letter to T. E. Murley, F0489A, dated March 7, 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 involves 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.

Our architect-engineer, Stone and Webster Engineering Corporation, and our engineering staff are in the process of performing an evaluation of this potential significant deficiency. Although not complete at this time, the evaluation has shown that certain trunion attachments have deformed the pipe during welding to the extent that replacement is necessary. The status to date is as follows:

1. Twenty-seven (27) supports with trunion attachments were installed in the Service Water System at Millstone Unit No. 3. Initial evaluation found problems with pipe deformation in several installations and possible reduction in corrosion protection on some piping where access to pipe internals was possible. All installed trunion attachments will be replaced.
2. Design review shows nineteen (19) supports with trunion attachments that have not yet been installed. In order to avoid further complications in field welding, all of these supports will be redesigned.

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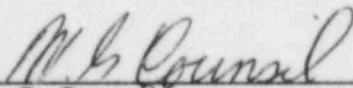
3. The redesign has eliminated supports with trunnion attachments where possible and replaced other trunnion attachments with non-integral support designs. In cases where welded trunnion supports are still required, carbon steel trunnions will be replaced with copper-nickel trunnions.

Of the total of forty-six (46) trunnion supports that had been previously designed, eighteen (18) supports were eliminated, three (3) supports were replaced with non-integral support designs, and twenty-five (25) supports require copper-nickel trunnions. All of these supports have been redesigned.

Based on a telephone conversation between your Mr. T. Rebelowski and our Mr. R. R. Viviano, this report is being provided to you on May 22, 1984 rather than May 15, 1984. We will provide you with a final report on this matter by October 16, 1984.

Very truly yours,

NORTHEAST NUCLEAR ENERGY COMPANY



W. G. Council
Senior Vice President

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