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NORTHEAST UTILITIES



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

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December 13, 1979

Docket No. 50-336

Mr. Boyce H. Grier, Director
Region I
Office of Inspection and Enforcement
U. S. Nuclear Regulatory Commission
631 Park Avenue
King of Prussia, PA 19406

- References:
- (1) B. H. Grier letter to W. G. Council dated September 12, 1979, transmitting I&E Bulletin No. 79-23.
 - (2) W. G. Council letter to B. H. Grier dated November 1, 1979.

Gentlemen:

Millstone Nuclear Power Station, Unit No. 2
I&E Bulletin No. 79-23, Potential Failure of
Emergency Diesel Generator Exciter Transformer

Reference (1) requested Northeast Nuclear Energy Company (NNECO) to:

- (1) Determine whether electrical connections between excitation power transformers and emergency diesel generators (EDG) exist without adequate limitations to the flow of circulating currents.
- (2) Provide a schedule for completion or the results of a long duration, sustained full-load operation test of the EDG.

In Reference (2), NNECO responded to the Reference (1) concerns. In response to Item (2) of Reference (1), NNECO reported that the loading on the EDG excitation transformers was determined by measuring the transformer currents and voltages with the EDG fully loaded. These measurements would then be compared to the transformer's nameplate rating to determine whether the component is operating within its specifications and indicate any potential for future damage or failure of the transformer.

At the time of the Reference (2) submittal, NNECO was awaiting information from the exciter transformer manufacturer confirming the design rating of the transformers in use at Millstone Unit No. 2. NNECO subsequently obtained this information and provides the following supplementary response to Item (2) of Reference (1):

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The EDG excitation power transformers, consisting of three single phase transformers and each rated at 4.05 KVA, were tested with the EDG loaded to full load at approximately 0.8 power factor. At this loading, it was determined that the transformers were operating at a maximum 3.44 KVA or 85% of their design rating. Based on the results of these tests, NNECO concludes that any potential for damage or failure of the EDG field exciter transformers does not exist as a consequence of the phenomena identified in Reference (1).

NNECO trusts this information satisfactorily disposes the Reference (1) concerns.

Very truly yours,

NORTHEAST NUCLEAR ENERGY COMPANY

W. G. Council

W. G. Council
Vice President

By:

W. F. Fee

W. F. Fee
Vice President

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