



Public Service of New Hampshire

November 28, 1984

New Hampshire Yankee Division

SBN- 733
T.F. Q2.2.2

United States Nuclear Regulatory Commission
Region I
631 Park Avenue
King of Prussia, PA 19406

Attention: Mr. Richard W. Starostecki, Director
Division of Project and Resident Programs

References: (a) Construction Permits CPPR-135 and CPPR-136, Docket
Nos. 50-443 and 50-444
(b) Westinghouse Letter, dated September 14, 1984, Number
NS-EPR-2961, E. P. Rahe, Jr. to R. C. DeYoung (NRC, I&E)
(c) Westinghouse Letter, dated September 26, 1984, Number
NS-EPR-2965, E. P. Rahe, Jr. to R. C. DeYoung (NRC, I&E)
(d) Telecon of October 18, 1984, A. L. Legendre, Jr. to
A. Cerne (Seabrook Senior Resident Inspector)

Subject: Interim 10CFR50.55(e) Report: Ferroresonant Transformer
Deficiencies in Westinghouse 7.5 kVA Inverters

Dear Sir:

On October 18, 1984, a potentially reportable 10CFR50.55(e) item was reported [Reference (d)] regarding component deficiencies in General Electric ferroresonant transformers used in Westinghouse inverters. The following is an interim report concerning this subject:

DESCRIPTION OF DEFICIENCY

References (b) and (c) described the following two problems with General Electric ferroresonant transformers used in Westinghouse inverters:

1. Tuning capacitor connections may be incorrect. "Fast-on" terminals may have been connected to a solder lug instead of the correct fast-on lug. Although electrically correct, the mechanical connection may not be as tight as it should be and could separate during a seismic event.
2. The center leg of the transformer reactors may lack sufficient securing to prevent the leg from shifting and vibrating due to the magnetic forces encountered while the transformer is energized. This mechanical stress could cause an insulation breakdown to ground.

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SAFETY IMPLICATION

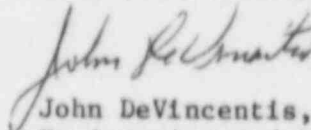
These Westinghouse 7.5 kVA inverters are used to supply the four 120 V ac vital instrument buses. Failure of the inverters caused by the above two deficiencies would cause the output voltage to drop to 60 - 65 volts. This decreased voltage could cause equipment supplied from the inverter to malfunction.

CORRECTIVE ACTION

Westinghouse is issuing Technical Bulletins which will describe how to inspect and test the inverters to determine if the above deficiencies exist. If the deficiencies are found in the Seabrook inverters, this will be considered a reportable item and the rework instructions in the Technical Bulletins will be implemented to correct the deficiencies.

This letter is being filed pursuant to the interim reporting provision of 10CFR50.55(e)(3).

Very truly yours,



John DeVincentis, Director
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cc: Atomic Safety and Licensing Board Service List

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