FILE

YANKEE ATOMIC ELECTRIC COMPANY

Rowe, Massachusetts 01367

October 27, 1979

United States Nuclear Regulatory Commission
Office of Inspection and Enforcement
Region I
631 Park Avenue
King of Prussia, Pa. 19406

Attention: Mr. B. H. Grier

Dear Mr. Grier:

Pursuant to the requirements of Technical Specifications, Section 6.9.4.a, the following is reported as Licensee Event Report 50-29/79-26.

Preliminary computer studies have found a potential problem when Yankee Rowe is in a startup mode of operation with the main generator separated from the grid. The safety related buses may not be provided the required voltage levels needed in the event of a LOCA. This problem results only if the grid voltage is at the minimum expected value with all four main coolant pumps in operation.

Yankee Rowe has a three bus design concept. There are three 2400 Volt buses, three 480 V buses and three emergency 480 V buses. With the generator at power, all bus cross tie breakers are open, and the center buses are connected to the generator. During a startup mode, power to the center buses is provided by cross-ties to the outer buses which in turn are powered from the two 115 KV transmission lines.

Our computer studies do not indicate any problem when the plant is in other than the startup mode of operation.

We are in the process of confirming these results, and arriving at suitable engineering modifications to alleviate the situation. In the interim, we are evaluating various procedural changes to assure adequate voltage to the safety related buses for the forthcoming startup.

A detailed report will follow in 14 days.

Very truly yours,

Herbert A. Autio

Herbert A. Autio
Plant Superintendent

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