Docket No. 50-271 February 21, 1992

Mr. L. A. Tremblay
Senior Licensing Engineer
Vermont Yankee Nuclear Power Corporation
580 Main Street
Bolton, Massachusetts 01740-1398

Dear Mr. Tremblay:

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION CONCERNING STATION BLACKOUT (SBO)

Enclosed is a list of questions concerning the availability of power to Vermont Yankee from Vernon Hydro. Answers to these questions are necessary to complete our SBO review for Vermont Yankee.

The reporting and/or recordkeeping requirements contained in this letter affect fewer than ten respondents; therefore, OMB clearance is not required under P. L. 96-511.

Sincerely,

Original signed by:

Patrick M. Sears, Project Manager
Project Directorate I-3
Division of Reactor Projects I/II
Office of Nuclear Reactor Regulation

Enclosure:
List of questions concerning
availability of offsite power

cc w/enclosure:
See next page

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ENCLOSURE

VERMONT YANKEE NUCLEAR POWER STATION BLACKOUT (SBO) QUESTIONS

1. What provisions are in place or will be put in place to alert the Vermont Yankee nuclear plant operators if at least 2.3 MW of Vernon Hydro is not available, or could not be made available (within 10 minutes) upon demand?

2. If a Loss of Offsite Power (LOOP) and subsequent SBO at the Vermont Yankee Nuclear Power Station is due to an extensive grid failure which results in the separation of the hydro generation from the grid, what steps and how much time (realistically under these conditions) would be required by the nuclear plant operators and the operators at the hydro plant to re-energize the line to the nuclear plant (with required kW available), assuming (1) that the pre-existing hydro plant load does not completely separate from the hydro generation (i.e., the load equals the hydro generation), and (2) that the pre-existing load separates from the hydro generation?

3. After the AAC source is connected to the safety bus at the nuclear plant, how will the loads be sequenced on (manually or automatically, Kws versus time)? For this loading sequence, and assuming a LOOP and SBO as described above and minimum pre-existing hydro generation, what tests have been or will be made per 10 CFR 50.63(a)(2) to assure that there will be adequate voltage and power availability at the Vermont Yankee safety bus? Provide a description of the tests and any supporting analysis including results if available, or provide the descriptions and a schedule for implementation.

cc:

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