

February 11, 1986

Docket No. 50-309

Mr. J. B. Randazza
Executive Vice President
Maine Yankee Atomic Power Company
83 Edison Drive
Augusta, Maine 04336

Dear Mr. Randazza:

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION CONCERNING THE
SAFETY PARAMETER DISPLAY SYSTEM FOR MAINE YANKEE

We have reviewed your October 15, 1985 submittal concerning the Safety Parameter Display System (SPDS) and concluded that insufficient information was provided to complete the evaluation. The enclosure requests specific information needed to complete the evaluation.

In order to preserve our present review schedule, the staff needs to have this information within 60 days from your receipt of this letter.

The information requested in this letter affects fewer than 10 respondents; therefore, OMB clearance is not required under P. L. 96-511.

Sincerely,

/S/

Ashok C. Thadani, Director
PWR Project Directorate #8
Division of PWR Licensing-B

Enclosure:
As stated

cc w/enclosure:
See next page

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Atomic Power Station

Anderson, Project Manager
Yankee Atomic Electric Company
Chester Road
New Britain, Massachusetts 07101

D. Whittier
Engineering Section Head
Yankee Atomic Power Company
Main Drive
New Britain, Maine 04336

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Mr. J. B. Randazza
Maine Yankee Atomic Power Company

Maine Yankee Atomic Power Station

CC:
Charles E. Monty, President
Maine Yankee Atomic Power Company
83 Edison Drive
Augusta, Maine 04336

Mr. P. L. Anderson, Project Manager
Yankee Atomic Electric Company
1671 Worcester Road
Framingham, Massachusetts 07101

Mr. Charles B. Brinkman
Manager - Washington Nuclear
Operations
Combustion Engineering, Inc.
7910 Woodmont Avenue
Bethesda, Maryland 20814

Mr. G. D. Whittier
Licensing Section Head
Maine Yankee Atomic Power Company
83 Edison Drive
Augusta, Maine 04336

John A. Ritscher, Esquire
Ropes & Gray
225 Franklin Street
Boston, Massachusetts 02110

State Planning Officer
Executive Department
189 State Street
Augusta, Maine 04330

Mr. John H. Garrity, Plant Manager
Maine Yankee Atomic Power Company
P. O. Box 408
Wiscasset, Maine 04578

Regional Administrator, Region I
U.S. Nuclear Regulatory Commission
631 Park Avenue
King of Prussia, Pennsylvania 19406

First Selectman of Wiscasset
Municipal Building
U.S. Route 1
Wiscasset, Maine 04578

Mr. Cornelius F. Holden
Resident Inspector
c/o U.S. Nuclear Regulatory Commission
P. O. Box E
Wiscasset, Maine 04578

REQUEST FOR ADDITIONAL INFORMATION
CONCERNING THE
MAINE YANKEE ATOMIC POWER PLANT
SAFETY PARAMETER DISPLAY SYSTEM

Each operating reactor shall be provided with a Safety Parameter Display System (SPDS). The Commission approved requirements for an SPDS are defined in NUREG-0737, Supplement 1. In the Regional workshops on Generic Letter 82-33 held during March 1983, the NRC discussed these requirements and the staff's review of the SPDS.

The staff reviewed the SPDS safety analysis and supplemental documents provided by Maine Yankee Atomic Power Company (Reference 1). The staff was unable to complete the review because of insufficient information. The following additional information is required to continue and complete the review:

INSTRUMENTATION AND CONTROL SYSTEMS BRANCH

Isolation Devices

Provide the following:

- a. For the type of device used to accomplish electrical isolation, describe the specific testing performed to demonstrate that the device is acceptable for its application(s). This description should include elementary diagrams when necessary to indicate the test configuration and how the maximum credible faults were applied to the devices.

- b. Data to verify that the maximum credible faults applied during the test were the maximum voltage/current to which the device could be exposed, and define how the maximum voltage/current was determined.
- c. Data to verify that the maximum credible fault was applied to the output of the device in the transverse mode (between signal and return) and other faults were considered (i.e., open and short circuits).
- d. Define the pass/fail acceptance criteria for each type of device.
- e. Provide a commitment that the isolation devices comply with the environment qualifications (10 CFR 50.49) and with the seismic qualifications which were the basis for plant licensing.
- f. Provide a description of the measures taken to protect the safety systems from electrical interference (i.e., Electrostatic Coupling, EMI, Common Mode and Crosstalk) that may be generated by the SPDS.
- g. Provide information to verify that the Class 1E isolator is powered from a Class 1E power source.

REFERENCE:

1. Letter from G. D. Whittier (MN-85-106) to J. R. Miller, May 31, 1985.