Docket No. 50-336 February 11, 1986

Mr. John F. Opeka, Senior Vice President
Nuclear Engineering and Operations
Northeast Nuclear Energy Company
P. O. Box 270
Hartford, Connecticut 06141-0270

Dear Mr. Opeka:

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION CONCERNING THE SAFETY PARAMETER DISPLAY SYSTEM FOR MILLSTONE 2

We have reviewed your March 25, 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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Mr. John F. Opeka
Northeast Nuclear Energy Company

Millstone Nuclear Power Station
Unit No. 2

cc:
Gerald Garfield, Esq.
Day, Berry & Howard
Counselors at Law
City Place
Hartford, Connecticut 06103-3499

Regional Administrator, Region I
U.S. Nuclear Regulatory Commission
Office of Executive Director for
Operations
631 Park Avenue
King of Prussia, Pennsylvania 19406

Mr. Charles Brinkman, Manager
Washington Nuclear Operations
C-E Power Systems
Combustion Engineering, Inc.
7910 Woodmont Avenue
Bethesda, Maryland 20814

Mr. Lawrence Bettencourt, First Selectman
Town of Waterford
Hall of Records - 200 Boston Post Road
Waterford, Connecticut 06385

Northeast Utilities Service Company
ATTN: Mr. Richard R. Laudenat, Manager
Generation Facilities Licensing
Post Office Box 270
Hartford, Connecticut 06141-0270

Kevin McCarthy, Director
Radiation Control Unit
Department of Environmental
Protection
State Office Building
Hartford, Connecticut 06106

Mr. John Shedlosky
Resident Inspector/Millstone
Box 811
Niantic, Connecticut 06357

Office of Policy & Management
ATTN: Under Secretary Energy
Division
80 Washington Street
Hartford, Connecticut 06106

Mr. Wayne D. Romberg
Superintendent
Millstone Nuclear Power Station
P. O. Box 128
Waterford, Connecticut 06385

Mr. Edward J. Mroczka
Vice President, Nuclear Operations
Northeast Nuclear Energy Company
P. O. Box 270
Hartford, Connecticut 06141-0270

REQUEST FOR ADDITIONAL INFORMATION CONCERNING THE MILLSTONE 2 NUCLEAR POWER STATION 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 Northeast Nuclear Energy 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 isoaltor is powered from a Class 1E power source.

REFERENCE:

1. Letter from W. G. Counsil (NNEC) to J. R. Miller (NRC), dated 3-25-85.