APR 09 1986

Docket No. 50-244

Mr. Roger W. Kober, Vice President
Electric and Steam Production
Rochester Gas & Electric Corp.
89 East Avenue
Rochester, New York 14649

Dear Mr. Kober:

We are conducting our review of the Ginna Safety Parameter Display System. Your submittal of November 30, 1984, in part, described the electrical isolation devices used for the system. We require additional information in order to complete our review. The information needed by the staff is provided in the enclosure to this letter. We understand through discussions with Mr. Paul Wilkens of your staff, held with NRC staff members on March 27, 1986, by telephone, that this system is on schedule as directed by the NRC Order of June 12, 1984.

Kindly respond within 45 days of the date of this letter. This review is being conducted under our TAC number 51243.

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

/S/
Morton B. Fairtile, Project Manager
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cc w/o encl:
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REQUEST FOR ADDITIONAL INFORMATION
CONCERNING THE
R. E. GINNA NUCLEAR 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 No. 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 Rochester Gas and Electric (Reference 1). The information did not address the isolation devices in the detail required by the staff. The following additional information is needed to continue and complete the review:

Isolation Devices

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 No. 1: Letter dated November 30, 1984 from R. W. Kober (RG&E) to J. A. Zwolinski (NRC).

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