

NOV 26 1985

Docket Nos.: 50-424  
and 50-425

Mr. Donald O. Foster  
Vice President and Project General Manager  
Georgia Power Company  
Rt. 2, Box 299A  
Waynesboro, Georgia 30830

Dear Mr. Foster:

Subject: Request for Additional Information on Vogtle, Units 1 and 2  
Safety Parameter Display System

The staff has reviewed the instrumentation portions of your September 27, 1985, submittal on the Vogtle Units 1 and 2 safety parameter display system (SPDS). The enclosure details the information needed by the staff to complete its review. Responses should be provided within 45 days of the date of this letter. Human factors specialists on the staff are also reviewing your September 27 submittal. Additional staff questions may arise from this review.

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

If there are questions regarding this letter, contact the Project Manager, Melanie Miller, at (301) 492-4259.

Sincerely,

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B. J. Youngblood, Director  
PWR Project Directorate #4  
Division of PWR Licensing-A

Enclosure: As stated

cc: See next page

Distribution:

<del>Docket File</del>	OELD
NRC PDR	ACRS (10)
Local PDR	JPartlow
PRC System	EJordan
NSIC	BGrimes
PWR#4 Rdg	MMiller
MDuncan	JJoyce

8512050055 851126  
PDR ADOCK 05000424  
F PDR

PWR#4/DPWR-A  
MMiller/mac  
11/26/85

PWR#4/DPWR-A  
MDuncan  
11/26/85

PWR/DPWR-A  
BJYoungblood  
11/27/85

Mr. Donald Foster  
Georgia Power Company

Vogtle Electric Generating Plant

cc:

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REQUEST FOR ADDITIONAL INFORMATION  
CONCERNING THE  
VOGTLE, UNITS 1 AND 2  
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 Georgia 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 (10CFR 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.

REFERENCE:

1. Letter from J. A. Bailey (GN-709) to E. G. Adensam dated September 27, 1985.