



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

October 22, 1990

Docket Nos. 50-338
and 50-339

Mr. W. L. Stewart
Senior Vice President - Nuclear
Virginia Electric and Power Company
5000 Dominion Blvd.
Glen Allen, Virginia 23060

Dear Mr. Stewart:

SUBJECT: NORTH ANNA UNITS 1 AND 2 - REQUEST FOR ADDITIONAL INFORMATION
REGARDING IMPLEMENTATION OF THE GUIDELINES PROVIDED IN REGULATORY
GUIDE (RG) 1.97 (TAC NOS. 76797 AND 76798)

In April 1989, the NRC (Region II) inspected your implementation of the guidelines provided in RG 1.97 for NA-1&2. The Region II inspector believes there is a potential for a single failure in the plant process computer power supply that could cause a loss of accident monitoring indications on the plant main control board. However, you disagreed with the inspector's findings. To resolve this item, Region II submitted a Technical Assistance Request to the Division of Reactor Projects-I/II, NRR.

Based on the staff's review of this matter, we request that you provide electrical drawings for all RG 1.97, Category 1 variables that interface with the plant computer, from the inputs to the process racks, through the plant process computer (PPC) to the PPC power supply(s), and from the process racks to the input to the main control board RG 1.97 Category 1 indications. Electrical isolation devices should be indicated on these diagrams.

Additionally, we request that you provide the information provided in the enclosure to this letter. The information concerns the capability of the isolation devices that protect the Category 1 indications from electrical fault in the plant process computer power supply.

We request that the electrical drawings and the additional information be provided within sixty (60) days receipt of this letter.

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Mr. W. L. Stewart

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The reporting and/or recordkeeping requirements contained in this letter affect fewer than 10 respondents; therefore, OMB clearance is not required pursuant to P.L. 96-511.

Sincerely,

(Original Signed By)

Leon B. Engle, Project Manager
Project Directorate II-2
Division of Reactor Projects - I/II
Office of Nuclear Reactor Regulation

Enclosure:
As stated

cc w/enclosure:
See next page

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ENCLOSURE

REQUEST FOR ADDITIONAL INFORMATION

NORTH ANNA POWER STATION, UNITS NO. 1&2

Docket Nos. 50-338 and 50-339

1. Provide a detailed description of the device(s) used to accomplish electrical isolation, and describe the specific testing performed to demonstrate that the device is acceptable for its application(s). This description should include elementary diagrams to indicate the test configuration and how the maximum credible faults were applied to the device(s).
2. Provide data to verify that the maximum credible faults applied during the tests were the maximum voltage and current to which the device could be exposed, and define how the maximum voltage and current was determined.
3. Provide data to verify that the maximum credible fault (voltage and current) was applied to the output of the device in the transverse mode (between signal and return) and to verify that other faults were considered (i.e., open and short circuits).
4. Define the pass/fail acceptance criteria for each type of device.

Mr. W. L. Stewart
Virginia Electric & Power Company

North Anna Power Station
Units 1 and 2

cc:

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