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I&E (3)

Mr. J. H. Ferguson
Executive Vice President - Power
Virginia Electric and Power Company
Post Office Box 26666
Richmond, Virginia 23261

Dear Mr. Ferguson:

We are reviewing the information you have submitted concerning the Surry Power Station, Unit Nos. 1 and 2 auxiliary feedwater automatic initiation and flow indication. These items relate to NUREG-0660 Action Plan item II.E.1.2. We find that we need additional information in order to continue our review.

The information we need is identified in the enclosure and was discussed with your staff on September 30, 1980. Please provide your response by December 1, 1980.

Sincerely,

Original signed by:
S. A. Varga

Steven A. Varga, Chief
Operating Reactors Branch #1
Division of Licensing

Enclosure:
As Stated

cc: w/enclosure
See next page

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OFFICE ▶	DL:ORB1	DL:ORB1			
SURNAME ▶	JDNeighbors	JSAVarga			
DATE ▶	10/9/80	10/9/80			



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

October 29, 1980

Docket Nos. 50-280
and 50-281

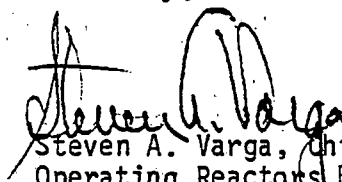
Mr. J. H. Ferguson
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Steven A. Varga, Chief
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cc: w/enclosure
See next page

Mr. J. H. Ferguson
Virginia Electric and Power Company - 2 -

October 29, 1980

cc: Mr. Michael W. Maupin
Hunton and Williams
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Richmond, Virginia 23213

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Donald J. Burke, Resident Inspector
Surry Power Station
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Post Office Box 959
Williamsburg, Virginia 23185

REQUEST FOR ADDITIONAL INFORMATION
SURRY UNITS 1 & 2 AUXILIARY (EMERGENCY)
FEEDWATER SYSTEM AUTOMATIC INITIATION
AND FLOW AND STEAM GENERATOR LEVEL INDICATION

During our review of the Surry Units 1 & 2 auxiliary feedwater system (AFWS) automatic initiation logic and circuitry and the AFWS flow and steam generator level channels, we have found several areas in need of clarification.

Specifically:

1. Is the auxiliary feedwater system and its automatic initiation circuitry considered to be part of the Engineered Safety Features (ESF)?
2. Submitted by letter dated February 1, 1980 was a diagram of the automatic initiation logic. Describe whether redundant and independent logic trains are used and if this arrangement satisfies the single failure criterion with regard to automatic and manual initiation of the auxiliary feedwater pumps.
3. Are there any operating bypasses associated with the automatic initiation logic/circuitry (including sensors used for auto signals) during start-up or operation of the reactor? If so, how are these bypasses removed (automatically, procedurally, etc.)?
4. Process analog and logic channels of the automatic initiation circuits are tested monthly up to the relay that starts the pump. The pumps are placed in the lock position. What indication is available to the operator in the control room which displays at the system level the inoperable status of an AFW train?
5. Describe the steam generator level instrumentation at the Surry Plant. This description should include:

- a. Type and number of level channels per steam generator including the range of each channel.
- b. The specific source (vital bus) from which each of these channels is powered.
- c. Capability for testing and calibration including the interval between tests.
- d. The type of indication available in the control room for each channel (indicator, recorder, etc.).