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Vogtle Project

May 23, 1986

Director of Nuclear Reactor Regulation  
Attention: Mr. B. J. Youngblood  
PWR Project Directorate #4  
Division of PWR Licensing A  
U. S. Nuclear Regulatory Commission  
Washington, D.C. 20555

File: X6BK10  
Log: GN-916

REF: REQUIRED ACTIONS BASED ON GENERIC IMPLICATIONS OF SALEM ATWS EVENTS  
(GENERIC LETTER 83-28)

NRC DOCKET NUMBERS 50-424 AND 50-425  
CONSTRUCTION PERMIT NUMBERS CPPR-108 AND CPPR-109  
VOGTLE ELECTRIC GENERATING PLANT - UNITS 1 AND 2  
SER OPEN ITEM 5: GENERIC LETTER 83-28

Dear Mr. Deaton:

In a telephone conversation with your staff on April 9, 1986 additional information was requested in paragraph 1.2 of the referenced letter. Attachment A contains the requested information. In a later telephone call, April 24, 1986, your staff requested additional information concerning paragraph 4.3 of the referenced letter. Attachment B contains this information.

Should you have any questions, please inquire.

Sincerely,

J. A. Bailey  
Project Licensing Manager

JAB/sm

xc: R. E. Conway  
R. A. Thomas  
J. E. Joiner, Esquire  
B. W. Churchill, Esquire  
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ATTACHMENT A

GENERIC LETTER 83-28

1.2 POST-TRIP REVIEW (DATA AND INFORMATION CAPABILITY)

THE FOLLOWING IS A TABLE LISTING VOGTLE'S OPTIONS FOR POST-TRIP REVIEW DATA. QUALIFIED REVIEW DATA MEDIA ARE SHOWN AS "YES" IN THE COMPARISON TABLE. THOSE INDICATED AS "NO" ARE NOT AVAILABLE FOR THE MEDIA LISTED. VOGTLE PLANS TO EITHER USE THE PROTEUS OR ERF OPTION AS SEPARATE AND QUALIFIED MEDIA. THE CONTROL ROOM RECORDER STRIP CHARTS WILL BE USED TO COMPLETE AN OPTION.

PROTEUS OPTION:

VOGTLE PLANS TO USE THE PROTEUS TREND AND TRIP LOGS AS THE PRIMARY REVIEW DATA MEDIA SINCE PROTEUS IS QUALIFIED AS SHOWN IN THE TABLE WITH THE FOLLOWING JUSTIFICATION.

JUSTIFICATION:

- A. THE ERF SPDS IS AVAILABLE TO MANUALLY INITIATE A HARD COPY PRINTOUT OF THE FOLLOWING TO MAKE THE PROTEUS OPTION COMPLETE:
1. PRESSURIZER PRESSURE VS. PORV POSITION TREND
  2. CONTAINMENT RADIATION
  3. CONTAINMENT LEVEL
- B. NOTE 1.

ERF OPTION:

THE ERF OPTION APPEARS TO MEET ALL THE CRITERIA EXCEPT FOR CONTROL ROD POSITION. THERE ARE NO PLANS TO ADD THIS TO THE ERF SINCE ROD POSITION RELATIVE TO THE OTHER PARAMETERS/ACTUATIONS LISTED DOES NOT PROVIDE ANY ADDITIONAL INFORMATION THAN WHAT IS PROVIDED BY NEUTRON FLUX.

## REVIEW DATA MEDIA

	SEQUENCE OF EVENTS (SOE)		ANALOG TIME HISTORY		
	ERF	PROTEUS TREND LOG	ERF	PROTEUS TRIP LOG	CONTROL ROOM RECORDER
<b>REVIEW CRITERIA:</b>					
TIME DISCRIMINATION <100m SEC:	YES (NOTE 3)	YES (1mSEC)	NA	NA	YES
SAMPLING INTERVAL >10 SEC:	NA	NA	YES (2.5 SEC)	YES (10 SEC)	YES
UPDATE: 5 MIN. PRE-TRIP:	YES (NOTE 2)	YES ONGOING	YES (2HRS.)	YES (400 SEC)	YES UNLIMITED
10 MIN. POST-TRIP	YES (2HRS.)	YES ONGOING	YES (2HRS.)	YES (NOTE 1)	YES UNLIMITED
<b>RECORD MEDIA:</b>					
PRINTOUT:	YES@	YES	YES@	YES	NA
TAPE:	YES	NO	YES	NO	NA
COPY AVAILABLE:	YES	NO	YES	NO	YES (STRIP CHART)
POWER SOURCE: UPS(BATTERY BACKED)	N1E	N1E	N1E	N1E	1E&N1E
<b>PARAMETERS/ACTUATIONS:</b>					
REACTOR TRIP	YES	YES	NA	NA	NO
SAFETY INJECTION	YES*	YES	NA	NA	NO
CNTMT ISOLATION	YES*	NO	NA	NA	NO
TURBINE TRIP	YES	YES	NA	NA	NO
CONTROL ROD POS	NO	NO	NO	YES@	NO
NEUTRON FLUX, POWER	NA	NA	YES	YES	YES
CNTMT PRESSURE	NA	NA	YES	YES	YES
CNTMT RADIATION	NA	NA	YES	NO#	NO
CNTMT SUMP LEVEL	NA	NA	YES	NO#	YES
RCS PRESSURE	NA	NA	YES	YES@	YES
RCS TEMPERATURE	NA	NA	YES	YES	YES
PRZR LEVEL	NA	NA	YES	YES	YES
RCP STATUS	YES	YES	NA	YES(F)	YES(RCS F)
RCS FLOW	NA	NA	YES	YES	YES
SI FLOW	NA	NA	YES	YES@	YES

- OR -					
SI VALVE & PUMP STATUS	YES*	NO	NA	NA	NO
SG PRESSURE	NA	NA	YES	YES	YES
SG LEVEL	NA	NA	YES	YES	YES
FEED FLOW	NA	NA	YES	YES	YES
STEAM FLOW	NA	NA	YES	YES	YES
AFWS FLOW	NA	NA	YES	YES@	NO
- OR -					
AFW VALVE & PUMP	YES	YES (PUMP ONLY)	NA	NA	NO
AC VOLTAGE	NA	NA	YES	YES@	NO
DC VOLTAGE	NA	NA	YES	YES@	NO
D/G STATUS	NA	NA	YES	YES	NO
			(KWorV)	(KW)	
PORV POSITION	YES	NO#	NA	NA	NO

INFORMATION GATHERED FOR THE POST TRIP REVIEW SHALL BE MAINTAINED FOR THE DURATION OF THE PLANT OPERATING LICENSE IN ACCORDANCE WITH THE VEGP TECHNICAL SPECIFICATIONS.

NOTE 1.

THE PROTEUS TRIP LOG ONLY MEETS CRITERIA FOR DATA COLLECTION 10 MINUTES AFTER A TRIP IF THE OPERATOR MANUALLY INITIATES THE LOG AT 10 MINUTES INTO THE EVENT, SINCE THE TRIP AUTOMATICALLY INITIATES AND HAS STORAGE 400 SECONDS BEFORE AND AFTER THE TRIP. A MANUAL INITIATION ACTS THE SAME AS A TRIP, BUT WITH A DIFFERENT INITIATION TIME. VOGTLE'S PROTEUS TIME DISCRIMINATION, SAMPLING INTERVAL, AND UPDATE TIME IS TYPICAL OF THE GENERIC WESTINGHOUSE DESIGN USED AT SIMILAR PWRs.

NOTE 2.

THE ERF SEQUENCE OF EVENT (SOE) LOG WILL HAVE THE CAPABILITY TO STORE AT LEAST A 5 MINUTE UPDATE PRE-TRIP SINCE IT STORES THE PREVIOUS 2048 CONTACT CHANGES FROM A FIELD OF APPROXIMATELY 750 ACTUATIONS FROM A PREVIOUS 2 HOUR PERIOD.

NOTE 3.

THE ERF COMPUTER MEETS THE 1mSEC TIME DISCRIMINATION CRITERIA FOR PARAMETERS/CONTACTS LISTED AS YES UNDER THE SOE ERF COLUMN. THOSE LISTED AS "YES\*" HAVE A 2.5 SECOND TIME DISCRIMINATION SINCE THEY PASS THROUGH THE PLANT STATUS MONITORING SYSTEM (PSMS) REACTOR PROTECTION UNITS (RPU<sub>s</sub>). NOT ALL THE SI VALVES MEET THE 1mSEC CRITERIA; HOWEVER, THERE ARE OTHER INDICATIONS TO VERIFY SI ACTUATION SUCH AS SI FLOW AND ALIGNMENT OF SOME SI VALVES.

CONTAINMENT ISOLATION ACTUATION IS ALSO ACTUATED BY A SI ACTUATION AND VEGP FEELS THAT THE SI ACTUATION INDICATIONS GIVEN ABOVE ARE SUFFICIENT TO PROVIDE THE 1 mSEC TIME DISCRIMINATION WHEN A 2.5 SEC TIME DISCRIMINATION IS ALSO AVAILABLE FOR CONTAINMENT ISOLATION ACTUATION.

- @ DENOTES THAT THE ITEM IS NOT CURRENTLY IN THE LOG BUT THE ITEM HAS AN INPUT TO PROTEUS AND WE PLAN TO ADD THESE FEATURES.
- # DENOTES THAT EVEN THOUGH THE PARAMETER/ACTUATION ITEM IS LISTED AS NOT MEETING THE GENERIC LETTER REVIEW CRITERIA FOR THE PROTEUS OPTION, AN ALTERNATE MEDIA, USING THE ERF TREND HARDCOPY, MEETS THE CRITERIA.
- \* DENOTES THAT THOSE LISTED AS "YES\*" HAVE A 2.5 SECOND TIME DISCRIMINATION SINCE THEY PASS THROUGH THE PLANT STATUS MONITORING SYSTEM (PSMS) REACTOR PROTECTION UNITS (RPU<sub>s</sub>).

ATTACHMENT B

GENERIC LETTER 83-28, ITEM 4.3

CLARIFICATION TO POSITION INDICATION CIRCUITRY OF  
REACTOR TRIP AND BY-PASS BREAKERS

VEGP Reactor Trip Breakers could be placed in either of the four following positions:

- 1 - CONNECTED POSITION
  - o main power is connected
  - o cell switch actuating fingers are connected
  - o aux. contacts are connected
- 2 - TEST POSITION
  - o main power is disconnected
  - o cell switch actuating fingers are disconnected
  - o aux. contacts are connected
- 3 - DISCONNECTED POSITION
  - o The main power, cell switch actuating fingers and auxillary contacts are disconnected
- 4 - REMOVED POSITION
  - o The main power, cell switch actuating fingers and auxilliary contacts are disconnected.

All four Reactor Trip and By-pass Breakers have closed and Open Position Indication on the Main Control Board. For Both Reactor Trip Breakers, position indications are shown when breakers are either in connected or in test position. Cell Switch Contacts are not used to power the indication or trip circuits.

In the case of By-Pass Breakers, positions indications are shown only when the breakers are in connected position. Power for position indication and Remote Shunt Trip are fed through Cell Switch Contacts.