



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

February 21, 1985

Docket Nos: 50-424  
and 50-425

APPLICANT: Georgia Power Company  
FACILITY: Vogtle, Units 1 and 2  
SUBJECT: Summary of Vogtle Fire Protection Meeting on  
December 14, 1984

On December 14, 1984, the staff met with the applicant and its representatives to discuss the fire protection open items as identified in the draft SER dated November 6, 1984. Participants are listed in Enclosure 1.

The following is a summary of the discussion surrounding each open item related to fire protection:

(73) Fire hazards analysis

The staff suggested that the applicant go back through the plant to analyze for fire protection. The applicant indicated that Appendix 9A of the FSAR, which includes such analysis, would be in the final stages of review in January 1985.

(96) Fire brigade

The applicant indicated that it would revise the FSAR to address the staff concerns related to this open item.

(74) Fire doors

The staff indicated that fire doors should be UL labeled and further that if the doors are not, the applicant should get UL inspectors to come to the plant to certify the doors. In response to a staff question on fire door supervision, the applicant stated that it would use either walkdowns or locking doors. The applicant indicated that there would be very little electrical supervision. The applicant indicated that justification for the use of special purpose doors is contained in FSAR Appendix 9A. The staff also stated that any add-on hardware to fire doors must also be UL rated.

(75) Fire dampers

The applicant stated that the fire dampers do not have UL labels. This is because there are not fire-rated mullings the size of the Vogtle fire dampers. The manufacturer stated that fire dampers cannot be ganged and UL rated if the geometry is out of the bounds of test results. The staff emphasized that the applicant must have UL inspectors come to the plant to certify the geometry of

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the ganged fire dampers. The staff inquired as to the location of the dampers to determine if the area could be enlarged. The applicant indicated that this was not possible because the dampers are in fire-rated walls.

(76) Soundproofing

The applicant indicated that it would have no problem addressing this open item and would revise the FSAR to do so.

(77) Safe shutdown and (78) Alternate Shutdown

The staff referred the applicant to the safe shutdown analysis format utilized on Turkey Point by Bechtel Gaithersburg. The applicant stated that the charging pump, auxiliary feedwater pumps, component cooling water pumps, switchgear rooms, and penetration area are all appropriately separated. However, cable routing may present a problem.

(79) Power supplies for ventilation

The applicant stated that its power supplies for the ventilation system are outside of the fire area served and that they are using portable fans. The staff indicated that the applicant must appropriately justify this deviation from the guidelines in Section C.5.f of BTP CMEB 9.5-1.

(80) Fire detection systems

The applicant indicated that the DSER stated that Vogtle has a 4-hr battery backup rather than the correct 24-hr backup. (This may have originated due to an error in the FSAR.) The staff indicated that the 24-hr battery backup should be acceptable.

(81) Valve supervision

The applicant needs to discuss in the FSAR what it plans to use for valve supervision.

(82) Automatic sprinkler system

The staff told the applicant that the guidelines of NFPA 13 and 15 are very specific and that it should follow the 1983 Edition of NFPA 13. Because utilities typically have problems conforming to these two standards, the staff suggested that the applicant talk with other utilities and possibly look into research going on in this area at the University of Maryland. The staff's main concern is with deflector distance from the ceiling. If the applicant does an analysis, the staff would need to review it. If sprinkler head distance from the ceiling does not conform to the standard, the applicant would need to provide justification.

(83) Standpipes

The applicant must indicate in the FSAR how standpipes and hose stations vary from NFPA Standard 14.

(84) Halon

The applicant stated that Vogtle has a full code-complied system. The staff indicated that this should be acceptable after it is indicated in the FSAR.

(85) Control room

The applicant stated that complex main control room cabinets do not contain smoke detectors. The staff indicated that detectors are necessary in the control room cabinets. The applicant stated that there is a 1 hour fire-rated wall between the control and peripheral rooms with 3 hour fire-rated doors. This needs to be clarified in the FSAR. Halon will be removed from termination cables in the cable spreading room. The applicant said that this change is in the direction of more compliance. The applicant said it would get back to the staff as to whether or not the electrical driven fire pump annunciates in the control room in conformance with NFPA Standard 20. The applicant indicated that the manufacturer assured that the pump response times are in accordance with NFPA Standard 72D.

Following the discussion of the open items, the utility had several topics which it wanted to discuss.

The DSER stated that all cables pass the 383 flame test. The utility will confirm this.

The applicant indicated that there will be no fire hoses inside containment during operation because of concern with hose degradation. Hoses will be inside containment during an extended outage. The staff would prefer hoses to be inside containment at all times. Therefore, if the applicant chooses not to keep hoses inside containment, the staff would recommend hose availability be part of the Vogtle Technical Specifications.

The applicant also discussed preliminary design problems with interties between the Units 1 and 2 fire protection water supply system. Further discussion will take place at a future meeting.

The DSER states that switchgear is separated from other plant areas. The applicant stated that this is not correct but that the switchgear is separated from the other train.

The staff indicated that the fire protection site visit would take place when the plant is greater than 90% complete, approximately 6 months prior to fuel load.

The staff questioned the applicant as to whether or not it would install excess flow valves on hydrogen lines. The applicant stated that it would consider this and let the staff know.

A meeting to discuss alternate and safe shutdown was tentatively scheduled for January 24. Also, the staff indicated that the applicant should be able to resolve open items 73, 74, 75, 76, 79, 80, 81, 83, 84, and 85 by this time.

*Melanie A. Miller*

Melanie A. Miller, Project Manager  
Licensing Branch No. 4  
Division of Licensing

Enclosure:  
As stated

cc: See next page

DESIGNATED ORIGINAL

Certified By

*J. H. Miller*

VOGTLE

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

cc: Mr. L. T. Gucwa  
Chief Nuclear Engineer  
Georgia Power Company  
P.O. Box 4545  
Atlanta, Georgia 30302

Mr. Ruble A. Thomas  
Vice President - Licensing  
Vogtle Project  
Georgia Power Company/  
Southern Company Services, Inc.  
P.O. Box 2625  
Birmingham, Alabama 35202

Mr. R. E. Conway  
Senior Vice President - Nuclear  
Power  
Georgia Power Company  
P.O. Box 4545  
Atlanta, Georgia 30302

Mr. J. A. Bailey  
Project Licensing Manager  
Southern Company Services, Inc.  
P.O. Box 2625  
Birmingham, Alabama 35202

Ernest L. Blake, Jr.  
Shaw, Pittman, Potts and Trowbridge  
1800 M Street, N.W.  
Washington, D. C. 20036

Mr. G. Bockhold, Jr.  
Vogtle Plant Manager  
Georgia Power Company  
Route 2, Box 299-A  
Waynesboro, Georgia 30830

Mr. J. Nelson Grace  
Nuclear Regulatory Commission  
Region II  
101 Marietta Street, N.W., Suite 2900  
Atlanta, Georgia 30323

Mr. William S. Sanders  
Resident Inspector/Nuclear Regulatory  
Commission  
P.O. Box 572  
Waynesboro, Georgia 30830

Deppish Kirkland, III, Counsel  
Office of the Consumers' Utility  
Council  
Suite 225  
32 Peachtree Street, N.W.  
Atlanta, Georgia 30303

James E. Joiner  
Troutman, Sanders, Lockerman,  
& Ashmore  
Candler Building  
127 Peachtree Street, N.E.  
Atlanta, Georgia 30303

Douglas C. Teper  
Georgians Against Nuclear Energy  
1253 Lenox Circle  
Atlanta, Georgia 30306

Laurie F. Frier  
Legal Environmental Assistance  
Foundation  
1102 Healy Building  
Atlanta, Georgia 30303

Tim Johnson  
Executive Director  
Educational Campaign for  
a Prosperous Georgia  
175 Trinity Avenue, S.W.  
Atlanta, GA 30303

ENCLOSURE 1

Participants

NRC

M. Miller  
J. Stang

Bechtel

T. Luke  
A. Strunk  
S. Cereghino

Georgia Power Company

E. Pickett  
R. Sprankle  
D. Hudson

Southern Company Services

K. Kopecky  
J. McLeod  
J. Maddy

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MEETING SUMMARY DISTRIBUTION

Docket No(s): 50-424/425

NRC PDR

Local PDR

NSIC

PRC System

LB #4 r/f

Attorney, OELD

E. Adensam

Project Manager M. Miller

Licensing Assistant M. Duncan

NRC PARTICIPANTS

M. Miller

J. Stang

bcc: Applicant & Service List