

DEC 15 1977

Bocket Nos. 50-269

50-270

50-287

Duke Power Company  
ATTN: Mr. William O. Parker, Jr.  
Vice President - Steam Production  
422 South Church Street  
P. O. Box 2178  
Charlotte, North Carolina 28242

Gentlemen:

We are currently reviewing the Oconee Nuclear Station fire protection program. On November 10, 1977, we forwarded you a request for additional information (RAI) which documented the requests made at a meeting with you on October 7, 1977. We find that we need additional information as noted in the enclosure.

It is requested that you respond to the enclosed RAI within 30 days of receipt of this letter.

Sincerely,

151

A. Schwencer, Chief  
Operating Reactors Branch #1  
Division of Operating Reactors

Enclosure:  
Requests for Additional  
Information

cc w/encl: See next page

APP 13

OFFICE	DOR-ORB-1	DOR-ORB-1				
SURNAME	JNNeighbors:lb	ASchwencer				
DATE	12/15/77	12/15/77				



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

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Vice President - Steam Production  
422 South Church Street  
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We are currently reviewing the Oconee Nuclear Station fire protection program. On November 10, 1977, we forwarded you a request for additional information (RFAI) which documented the requests made at a meeting with you on October 7, 1977. We find that we need additional information as noted in the enclosure.

It is requested that you respond to the enclosed RFAI within 30 days of receipt of this letter.

Sincerely,

A handwritten signature in cursive script, appearing to read "A. Schwencer", is written over the typed name.

A. Schwencer, Chief  
Operating Reactors Branch #1  
Division of Operating Reactors

Enclosure:  
Requests for Additional  
Information

cc w/encl: See next page

Duke Power Company

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DEC 15 1977

cc: Mr. William L. Porter  
Duke Power Company  
P. O. Box 2178  
422 South Church Street  
Charlotte, North Carolina 28242

J. Michael McGarry, III, Esquire  
DeBevoise & Liberman  
700 Shoreham Building  
806-15th Street, NW.,  
Washington, D.C. 20005

Oconee Public Library  
201 South Spring Street  
Walhalla, South Carolina 29691

## REQUESTS FOR ADDITIONAL INFORMATION

### OCONEE UNITS 1, 2, AND 3

15. Identify any provisions in turbine building drains, such as backflow prevention devices or drains entering below sump level, that prevent a fire from being transmitted from one area to the next. Provide drawings showing piping and valving on the drain systems serving safety-related areas.
16. Describe whether any of the ventilation systems located at elevation 838 feet of the Auxiliary Building are required for safe shutdown functions, such as required room cooling for continued equipment operation.
17. Provide information on the combustibility of the electrical cable used in Oconee and whether it meets the requirements of IEEE 383.
18. Provide drawings of the turbine building which show the routing and separation of the power feeds to the 4160 volt engineered safe guards switchgear including feeds in the blockhouse and those external to the building.
19. Provide drawings showing the piping and valving arrangement for the condenser Cooling Water System including the cross-connection header and HPSW pump connection.
20. Verify that the Turbine Building roof deck is Factory Mutual Class 1 construction.
21. Document plans to install water flow alarms to the Control Room on all wet pipe sprinkler systems.
22. Describe the water demands that could be placed on the HPSW system in addition to fire flow requirements. Identify any other normal water demands supplied by the HPSW system.
23. Identify locations where the HPSW pumps can be started manually.
24. Describe the potential for a single piping break to cause loss of automatic and normal fire suppression capabilities in each area, including the Turbine Building. This review should also address the effects of isolating a hydrant if damaged.
25. Describe the effects of the loss of electrical buses running along the wall of the Turbine Building and resultant effects on safe shutdown capability.
26. Identify the location of ventilation air intake and exhaust openings and describe the potential for smoke being drawn into air intakes after being exhausted from another area.

27. Provide drawings on the Turbine Building ventilation system showing location of dampers and capacities of fans. Describe the capability of this system to remove smoke and heat from the Turbine Building.
28. Provide information on the location of charcoal filters in relation to safety-related systems and the quantity of charcoal in each filter. Also, provide details of the analysis that indicates 5 hours is available after loss of cooling air flow before ignition.
29. Describe the quantity and type of portable lights available for the fire brigade.
30. Describe the number and availability of portable radios for use by fire fighters.
31. Describe the method used to seal pipe penetrations in fire barriers.
32. Provide data showing the adequacy of fire doors, such as laboratory certifications for unlabeled fire doors and frames in required fire barriers.
33. Identify the systems in each fire area, including the Turbine Building, which are required for safe shutdown. This information need not duplicate that provided in the response to staff request number 3 previously provided.
34. Clarify the combustible loading tables contained in the fire protection layout drawings submitted December 31, 1976. The following items are not clear:
  - (1) Fire loadings are provided for some rooms containing combustibles, but not for other rooms;
  - (2) Total combustibles are provided only for certain rooms;
  - (3) The sum of the total combustibles or even the individual room combustibles do not equate or even approximate the totals for oil and cable insulation provided at the bottom of the chart;
  - (4) What type and quantity of combustible material is located in each fire area.