SEP 0 8 1975

DISTRIBUTION
Docket File
ORB#1 Reading
NRC PDR
Local PDR
KRGoller
TJCarter
OELD
OI&E (3)
RAPurple
CTrammell
GZech
SMSheppard
RTBAbernathy
SVarga
DEisenhut
ACRS (16)

Docket Nos. 50-269
50-270
and 50-287

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

Gentlemen:

Our review of calculations used for the ECCS evaluation of Oconee Units 1, 2, and 3 has identified the need for additional information regarding assumptions made in topical report BAW-10103. Those areas of concern are discussed in the attached enclosure along with the information required in order for us to complete our evaluation.

Please respond to this request for additional information within 30 days of receipt of this letter.

Sincerely,

Original signed by:
Robert A. Purple

Robert A. Purple, Chief
Operating Reactors Branch #1
Division of Reactor Licensing

Enclosure:
Request for Additional Information

cc w/enclosure:
See next page

ECCS 2

OFFICE ▶	DRL:ORB#1	DRL:ORB#1				
SURNAME ▶	GZech:lb	RAPurple				
DATE ▶	9/08/75	9/8/75				

Form AEC-318 (Rev. 9-53) AECM 0240 GPO 643—16—81465-1 445-678

SEP 0 8 1975

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

Mr. Troy B. Conner
Conner, Hadlock & Knotts
1747 Pennsylvania Avenue, NW
Washington, D. C. 20006

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

REQUEST FOR ADDITIONAL INFORMATION
OCONEE NUCLEAR STATION, UNITS 1, 2, & 3
DOCKET NOS. 50-269/270,287

The ECCS analysis for your plant is referenced to BAW-10103.* Provide justification for the following input parameters used in BAW-10103 by comparison with the appropriate values for your plant.

1. Net Free Containment Volume - Justification should include the total gross internal containment volume and the internal structures and equipment and their volumes which are subtracted to obtain the net free containment volume. A discussion of the uncertainties should be provided.

2. Passive Heat Sinks - Provide the actual passive heat sink structures for your plant. Discuss the method of determining the passive containment heat sinks. Identify each heat sink by category (i.e., cable tray, equipment supports, floor grating, crane wall, etc.) and provide surface area, thickness, materials of construction, thermal conductivity and volumetric heat capacity, by component category used in the containment transient analysis code.

3. Starting Time of Containment Cooling System(s) - Discuss the factors that show that the start time(s) assumed in the containment response analysis represent the earliest possible initiation of system(s) operation.

4. Containment Initial Conditions - Compare the initial values of temperature, pressure and relative humidity in the containment with the range of values that will be permitted during plant operation.

5. Containment Spray Water Temperature - Show that the value of containment spray water temperature used in the containment response analysis is the lower bound temperature consistent with plant operating conditions.

that the spray flow rate used is suitably conservative.

6. Fan-Cooler Heat Removal Rate - Compare the maximum fan-cooler heat removal rate for your plant with that assumed in BAW-10103. Show that minimum operational values of service water temperature have been used.

7. If any of the above parameters are less conservative for your plant than used in the generic evaluation of BAW-10103, provide the sensitivity of these parameters to the overall containment pressure response. This evaluation should demonstrate the overall conservatism of your containment parameters to those used in BAW-10103.

* BAW-10103 for Davis-Besse 1