

Docket No. 50-313

SEP 16 1975

DISTRIBUTION:
 Docket File
 ORB#2 Reading
 DLZiemann
 RMDiggs
 WConverse
 NRC PDR
 Local PDR
 TBAbernathy
 KRGoller
 TJCarter
 OELD
 OI&E (3)
 SVarga
 DEisenhut
 ACRS (16)

Arkansas Power & Light Company
 ATTN: Mr. J. D. Phillips
 Senior Vice President
 Production, Transmission, and
 Engineering
 Sixth and Pine Streets
 Pine Bluff, Arkansas 71601

Gentlemen:

We are reviewing the Arkansas Nuclear One - Unit 1 Emergency Core Cooling System reevaluation submittals dated July 9, 1975, August 8, 1975, and August 22, 1975, and have concluded that the additional information described in the enclosure is needed to complete our review.

To enable us to maintain our review schedule, please provide the requested additional information by October 15, 1975.

Sincerely,

Original Signed by:
 Dennis L. Ziemann

Dennis L. Ziemann, Chief
 Operating Reactors Branch #2
 Division of Reactor Licensing

Enclosure:
 Request for Additional
 Information

cc w/enclosure:
 See next page

THIS DOCUMENT CONTAINS
 POOR QUALITY PAGES

OFFICE ▶	RL:ORB#2	RL:ORB#2			
SURNAME ▶	WConverse:ah	DLZiemann			8004-250 489
DATE ▶	9/15/75	9/16/75			

P

Arkansas Power & Light Company

- 2 -

SEP 16 1975

cc w/enclosure:

Horace Jewell
House, Holms & Jewell
1550 Tower Building
Little Rock, Arkansas 72201

Mr. William Cavanaugh, III
Production Department
Post Office Box 551
Little Rock, Arkansas 72203

Arkansas Polytechnic College
Russellville, Arkansas 72801

ARKANSAS POWER & LIGHT CO. NY

ARKANSAS NUCLEAR ONE

DOCKET NO. 50-313

REQUEST FOR ADDITIONAL INFORMATION

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 and 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.