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Dockets Nos. 50-313 & 368

Mr. William Cavanaugh, III
Senior Vice President,
Energy Supply
Arkansas Power & Light Company
P. O. Box 551
Little Rock, Arkansas 72203

Dear Mr. Cavanaugh:

Our review of your letter dated November 5, 1982 concerning your proposed spent fuel pools expansions for Arkansas Nuclear One, Units Nos. 1 and 2 has resulted in the need for additional information in the chemical engineering area. The enclosed request for additional information identifies the information which is needed. To meet our review schedule we request the information to be received by February 15, 1983.

Sincerely,

"ORIGINAL SIGNED BY:"

Robert A. Clark, Chief
Operating Reactors Branch #3
Division of Licensing

"ORIGINAL SIGNED BY:"

John F. Stolz, Chief
Operating Reactors Branch #4
Division of Licensing

Enclosure:
Request for Additional
Information

cc w/enclosure:
See next page

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OFFICE	ORB#4:DL	C-ORB#4:DL	ORB#3:DL	ORB#3:DL	ORB#2:DL		
SURNAME	GVissing/cb	JStolz	PKreutzer	OLynch	RAClark		
DATE	1/7/83	1/6/83	1/7/83	1/7/83	1/7/83		

Arkansas Power & Light Company

cc w/enclosure(s):

Mr. John R. Marshall
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Arkansas Power & Light Company
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Honorable Ermil Grant
Acting County Judge of Pope County
Pope County Courthouse
Russellville, Arkansas 72801

Regional Radiation Representative
EPA Region VI
1201 Elm Street
Dallas, Texas 75270

Mr. John T. Collins, Regional Administrator
U. S. Nuclear Regulatory Commission, Region IV
611 Ryan Plaza Drive, Suite 1000
Arlington, Texas 76011

Director, Bureau of Environmental
Health Services
4815 West Markham Street
Little Rock, Arkansas 72201

REQUEST FOR ADDITIONAL INFORMATION
CONCERNING THE
SPENT FUEL POOL EXPANSION
FOR
ARKANSAS NUCLEAR ONE, UNITS NOS. 1 AND 2
DOCKETS NOS. 50-313 & 368

Questions Related to the Chemical Engineering Area

1. You stated that the spent fuel pool ion-exchanger resins are designed to be changed based on an increase in differential pressure rather than on the lack of ability to remove radioactive ionic material. For ALARA consideration, it is our position that the ion-exchanger resins should also be replaced as a consequence of reduced decontamination factor of the resins.

Describe the samples and instrument readings and their frequency of measurement that will be performed during power and refueling operations, to monitor the Spent Fuel Pool (SFP) water purity and need for SFP cleanup system demineralizer resin and filter replacement. State the chemical and radiochemical limits to be used in monitoring the SFP water and initiating corrective action. Provide the basis for establishing these limits. Your response should consider variables such as: boron concentration, gross gamma and iodine activity, demineralizer and filter differential pressures, demineralizer decontamination factor, pH, and crud level.