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

November 2, 1979

Docket No. 50-313

Mr. William Cavanaugh, III
Vice President, Generation
and Construction
Arkansas Power & Light Company
P. O. Box 551
Little Rock, Arkansas 72203

Dear Mr. Cavanaugh:

We have reviewed your letters dated December 29, 1978, January 30, 1979, April 2, 1979 and August 22, 1979, concerning the containment purge and vent system at Arkansas Nuclear One, Unit No. 1. In order to complete the mechanical review of this issue, we need additional information identified in the enclosure. You are requested to provide the information within 45 days.

Sincerely,

Robert W. Reid

Robert W. Reid, Chief
Operating Reactors Branch #4
Division of Operating Reactors

Enclosure:
Request for Additional
Information

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cc w/enclosure:
See next page

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Enclosure

REQUEST FOR ADDITIONAL INFORMATION FOR CONTAINMENT PURGE SYSTEM AND CONTAINMENT VENTING SYSTEM FOR ARKANSAS NUCLEAR ONE, UNIT 1 DOCKET NO. 50-313

1. With regard to the containment purge and venting system, provide the following information:

   a. Discuss the provisions made to ensure that isolation valve closure will not be prevented by debris which could potentially become entrained in the escaping air and steam.

   b. Discuss the provisions made for testing the availability of the isolation function and the leakage rate of the isolation valves, individually, during reactor operation.

   c. Provide an analysis to demonstrate the acceptability of the provisions made to protect structures and safety-related equipment; e.g., fans, filters, and ductwork, located beyond the purge system isolation valve against loss of function from the environment created by the escaping air and steam.

   d. For the containment purge isolation valves, specify the differential pressure across the valve for which the maximum leak rate occurs. Further, provide test results (e.g., from vendor tests of leakage rate versus valve differential pressure) which support the above data.

   e. Provide an analysis of the reduction in the containment pressure resulting from the partial loss of containment atmosphere during the accident for ECCS backpressure determination.

2. Provide a schematic drawing of your purge and vent system.