



ARKANSAS POWER & LIGHT COMPAN.  
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April 27, 1979

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Mr. K. V. Seyfrit, Director  
Office of Inspection & Enforcement  
U. S. Nuclear Regulatory Commission  
Region IV  
611 Ryan Plaza Drive, Suite 1000  
Arlington, Texas 76011

Subject: Arkansas Nuclear One - Units 1 and 2  
Docket Nos.50-313 and 50-368  
License Nos.DPR-51 and NPF-6  
IE Bulletin 79-04  
(File: 1510, 2-1510)

Gentlemen:

In response to IE Bulletin 79-04, the following information is provided.

Item 1. List all Seismic Category I piping systems (or portions thereof) where 3,4, or 6 inch diameter Velan swing check valves are installed or are scheduled to be installed

Response: The following three systems have 3 or 4 inch Velan swing check valves:

- (a) ANO-1 - Make-up Pump Discharge
- (b) ANO-2 - Safety Injection and Shutdown Cooling to Reactor Coolant System.
- (c) ANO-2 - HPSI Header No. 1 from HPSI Pumps to Control Valves

Item 2. Verify for all those systems identified in item 1 above that correct check valve weights were used in the piping analysis. Explain how and when the correct valve weights were determined.

Response: (a) A weight of 204 lbs. was used for each valve compared to 135 lbs. listed in subject bulletin.  
(b) A weight of 120 lbs. was used for each valve compared to 100 lbs. listed in subject bulletin.  
(c) A weight of 160 lbs. was used for the valve compared to 150 lbs. listed in subject bulletin.

Item 3. If incorrect valve weights were used, explain what actions have been taken or are planned to re-evaluate the piping systems affected.

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Response: Higher weights were used in our seismic analyses for all the subject valves. Since using higher weights mean our analyses are conservative, no reanalyses are required.

Item 4. Specify for all the affected systems identified in Item 1 whether modifications were or are required to the piping systems or their supports because of changes in valve weight. Also, include the basis for this determination. For those systems in which the actual valve weight is greater than the design weight, provide a summary of stresses and loads and their allowable limits for the piping and its supports.

Response: No modifications are required to either the piping systems or their supports as explained in Item 3 above.

Item 5. Identify the analytical technique including identification of any computer codes used to determine the stresses indicated in Item 4.

Response: Not applicable.

Very truly yours,

*David C. Trimble*

David C. Trimble  
Manager, Licensing

DCT:JTE:lg

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