

SEPTEMBER 14 1982

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Docket No. 50-313

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

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Dear Mr. Cavanaugh:

In accordance with our agreement during the meeting of August 24, 1982, concerning the proposed acoustic emission inspection of the reactor coolant pump flywheels for ANO-1, enclosed is our request for information. This request was given to AP&L representative at the August 24 meeting in order for a timely preparation of a response. Since the proposed inspection would be conducted during the next refueling outage, we request a response in a timely manner to accommodate completion of our review and reply to you before your scheduled date of inspection.

Sincerely,

ORIGINAL SIGNED BY:  
JOHN F. STOLZ

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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| SURNAME ▶ | GVissing;cf | JStolz     |  |  |  |  |
| DATE ▶    | 9/17/82     | 9/14/82    |  |  |  |  |

Arkansas Power & Light Company

cc w/enclosure(s):

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Arkansas Power & Light Company  
P. O. Box 551  
Little Rock, Arkansas 72203

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Russellville, Arkansas 72801

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Honorable Ernil Grant  
Acting County Judge of Pope County  
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UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D. C. 20555

September 14, 1982

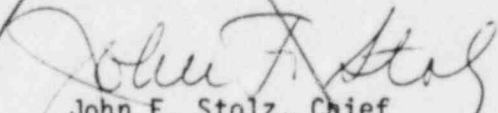
Docket No. 50-313

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

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Sincerely,

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

Enclosure:  
Request for Additional  
Information

cc w/enclosure:  
See next page

REQUEST FOR INFORMATION  
CONCERNING  
ISI OF RCP FLYWHEELS  
FOR  
ARKANSAS NUCLEAR ONE, UNIT NO. 1  
DOCKET NO. 50-313

- (1) Describe the measures in terms of disassembly of components, manpower and plant outage time that would be required to meet the existing Technical Specifications to perform the volumetric and surface examination of the flywheel using conventional nondestructive examination methods. Describe the physical restriction in terms of existing access (scan length) that prevents performing an ultrasonic examination of the keyway area of the installed flywheels.
- (2) Describe the number of flywheels that will be examined and the extent of volumetric coverage of the acoustic emission examination.
- (3) Describe the method of heating the flywheel to produce the applied stress. Discuss the measures that will be taken before and during the examination to assure that the desired stress and temperature distribution are achieved in the actual flywheel.
- (4) What is the calculated critical flaw size as a result of flywheel overspeed during a postulated LOCA transient?
- (5) Describe the acceptance/rejection criteria in terms of Severity Index. Estimate the maximum flaw size that could exist in the keyway area if the lowest Severity Index is produced during the test. Provide a qualitative estimate of the flaw size that must be detected by acoustic emission before supplemental examinations would be performed.
- (6) Since we consider acoustic emission as a developmental technique, we request that you submit the proposed examination procedure for review prior to performing the test. We also request that you submit a final report that documents the results of the examination.