Docket Nos. 50-313 and 50-368

Mr. T. Gene Campbell Vice President, Nuclear Operations Arkansas Power and Light Company Post Office Box 551 Little Rock, Arkansas 72203

Dear Mr. Campbell:

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION - SAFETY PARAMETER DISPLAY SYSTEM, ARKANSAS NUCLEAR ONE, UNITS 1 AND 2 (TAC NOS. 51219 AND 51220)

After reviewing your submittals on the Safety Parameter Display System, we find that we need additional information, described in the enclosure, in order that we may complete our review. Questions regarding the maximum credible fault testing of Rochester Instrument Systems SC-132, and Energy Incorporated Model 00993-4, remain unresolved. We request the information be provided within 30 days from the receipt of this letter.

The reporting and/or recordkeeping requirements of this letter affect fewer than ten respondents; therefore OMB clearance is not required under P. L. 96-511.

Sincerely,

C. Craig Harbuck, Project Manager Project Dircctorate - IV Division of Reactor Projects - III, IV, V and Special Projects

Enclosure: As stated

cc w/enclosure: See next page

DISTRIBUTION Wocket File L. Rubenstein OGC-Rockville PD4 Plant File

NRC PDR J. Calvo E. Jordan Local PDR P. Noonan J. Partlow PD4 Reading C. Harbuck ACRS (10)

PD4/LAOpC PNoonan 05/35/88 PD4/PM CLA CHarbuck:sr 05/23/88 PD-/D MAC JCalvo 05/23/88

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Sincerely, /s/ C. Craig Harbuck, Project Manager Project Directorate - IV Division of Reactor Projects - III, IV, V and Special Projects

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

May 23, 1988

Docket Nos. 50-313 and 50-368

Mr. T. Gene Campbell Vice President, Nuclear Operations Arkansas Power and Light Company Post Office Box 551 Little Rock, Arkansas 72203

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The reporting and/or recordkeeping requirements of this letter affect fewer than ten respondents; therefore OMB clearance is not required under P. L. 96-511.

Sincerely,

6. Chaig Hectuck

C. Craig Harbuck, Project Manager Project Directorate - IV Division of Reactor Projects - III, IV, V and Special Projects

Enclosure: As stated

cc w/enclosure: See next page Mr. T. Gene Campbell Arkansas Power & Light Company

cc: Mr. Dan R. Howard, Manager Licensing Arkansas Nuclear One P. O. Box 608 Russellville, Arkansas 72801

Mr. James M. Levine, Executive Director Site Nuclear Operations Arkansas Nuclear One P. O. Box 608 Russellville, Arkansas 72801

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Senior Resident Inspector U.S. Nuclear Regulatory Commission 1 Nuclear Plant Road Russellville, Arkansas 72801

Ms. Greta Dicus, Director Division of Environmental Health Protection Arkansas Department of Health 4815 West Markam Street Little Rock, Arkansas 72201

Mr. Robert B. Borsum Babcock & Wilcox Nuclear Power Generation Division Suite 220 1700 Rockville Pike, Suite 525 Rockville, Faryland 20852 Arkansas Nuclear One Unit Nos. 1 and 2

Mr. Charles B. Brinkman, Manager Washington Nuclear Operations C-E Power Systems 7910 Woodmont Avenue Suite 1310 Bethesda, Maryland 20814

Mr. Frank Wilson, Director Division of Environmental Health Protection Department of Health Arkansas Department of Health 4815 West Markham Street Little Rock, Arkansas 72201

Honorable William Abernathy County Judge of Pope County Pope County Courthouse Russelville, Arkansas 72801

ENCLOSURE

REQUEST FOR ADDITIONAL INFORMATION CONCERNING THE ARKANSAS NUCLEAR ONE, UNITS 1 AND 2 SAFETY PARAMETER DISPLAY SYSTEM

Each operating rector shall be provided with a Safety Parameter Display System (SPDS). The Commission approved requirements for an SPDS are defined in NUREG-0737, Supplement 1. In the Regional Workshops on Generic Letter 82-33 held during March 1983, the NRC discussed these requirements and the staff's review of the SPDS.

In order to satisfy the NRC requirements concerning the SPDS, Arkansas Power and Light Company (APL) submitted Safety Analysis Reports by letters dated April 30, 1984 and June 29, 1984. The reports provided a description and a safety analysis of the SPDS at Arkansas Nuclear One, Units 1 and 2. These reports did not address the requirements that the SPDS must be suitably isolated from equipment and sensors that are used in safety systems to prevent electrical and electroric interference.

On August 7, 1985, a request for additional information, which included specific question on the electrical isolators, was sent to APL. The requested information was received by letter dated October 28, 1985, and by draft letter dated July 17, 1986. The staff held telephone conferences with the licensee on July 28, 1986 and August 6, 1986 to clarify the submittals.

The staff has reviewed the available information and has determined that two items remain unresolved. The first item concerns the Rochester Instrument Systems SC-1302 maximum credible fault testing. APL has noted that the SC-1302 was tested at 250° VDC and 600 VAC applied to the non-Class 1E output in the transverse mode. It is the staff's understanding that the 600 VAC voltage was provided by a 120/600, 300VA step up transformer which would provide a current potential much less than the 20 amperes (0240 VAC) defined by APL as the maximum credible fault in the July 28, 1986 telecon. The staff requests documentation which demonstrates the device can withstand a maximum credible fault in the transverse mode at the plant defined level of 240 VAC and 20 amperes. The staff will accept testing by the licensee, vendor or an independent lab.

The second item concerns the Energy Incorporated (EI) Model 00993-4 maximum credible fault testing. Tests were conducted by EI using a maximum credible fault of 10 amperes at 480 VAC. Because the total energy available in the EI test is comparable to the ANO maximum fault level an analysis showing the ANO requirements enveloped by the EI testing would be acceptable to the staff in lieu of further testing. The staff requests submittal of the plant specific analysis or testing at the plant specific maximum credible fault levels.