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FEB 8 1974

Docket No. 50-313

Arkansas Power & Light Company
 ATTN: Mr. J. D. Phillips
 Vice President &
 Chief Engineer
 Sixth and Pine Streets
 Pine Bluff, Arkansas 71601

Gentlemen:

Because we are starting to issue operating licenses with broad possession and use limits on radioactive materials, we request that you provide us with the enclosed information by February 28, 1974. Enclosure 1 contains the proposed modification to the standard operating license for your information. Enclosure 2 contains the additional information we are requesting of applicants prior to licensing. Enclosure 3 contains a sample addition to the Technical Specifications which will be required as Appendix A to the operating licenses.

Sincerely,

Original Signed by

Albert Schwencer

A. Schwencer, Chief
 Light Water Reactors Br. 2-3
 Directorate of Licensing

Enclosures:
 As Stated

ccs: Horace Jewell
 House, Holms & Jewell
 1550 Tower Building
 Little Rock, Arkansas 72201

Mr. William Cavanaugh, III
 Production Department
 P. O. Box 551
 Little Rock, Arkansas 72203

LB

OFFICE →	LWR, 2-3	L:C/LWR 2-3				
SURNAME →	RMBernero:kmf	ASchwencer				
DATE →	2/ 7 /74	2/ 7 /74				

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ENCLOSURE 1
MODIFICATION TO STANDARD LICENSE

Substitute in standard license form (RPOP 511) the following in lieu of paragraphs B.(2), B.(3) and B.(4):

- B. (2) Pursuant to the Act and 10 CFR Parts 30, 40 and 70 to receive, possess and use at any time any byproduct, source and special nuclear material as reactor fuel, sealed neutron sources for reactor startup, sealed sources for reactor instrumentation and radiation monitoring equipment calibration, and as fission detectors in amounts as required for reactor operation;
- (3) Pursuant to the Act and 10 CFR Part 30 to receive, possess and use at any time 100 milligrams each of any byproduct material without restriction to chemical or physical form, for sample analysis or instrument calibration;
- (4) Pursuant to the Act and 10 CFR Parts 40 and 70 to receive, possess and use at any time 100 milligrams each of any source or special nuclear material without restriction to chemical or physical form, for sample analysis or instrument calibration.

ENCLOSURE 2
ADDITIONAL INFORMATION REQUESTED

1. Materials Safety Program

Describe the program which will be implemented to assure the safe storage, handling and use of sealed and unsealed special nuclear, source and byproduct materials. Sections of the FSAR may be referenced to the degree they are applicable.

2. Facilities and Equipment

Describe the laboratory facilities and equipment such as hoods, glove boxes, filters, survey and measuring instruments, and monitoring devices. Sections of the FSAR may be referenced to the degree they are applicable.

3. Personnel and Procedures

Describe the experience and qualifications of the key personnel responsible for handling and monitoring the materials. Identify and summarize the content of the radiation safety instructions to working personnel appropriate to the operations to be covered. Sections of the FSAR may be referenced to the degree they are applicable.

4. Required Materials

Provide a listing of isotope, quantity, form and use for all required byproduct, source and special nuclear materials which exceed the following limits:

<u>Material</u>	<u>Form and Use</u>	<u>Possession Limit</u>
A. Any byproduct, source and special nuclear material.	As reactor fuel; as sealed neutron sources for reactor start up; as sealed sources for reactor instrument and radiation monitoring equipment calibration; and as fission detectors.	As required for reactor operation
B. Any byproduct, source or special nuclear material.	Any form for sample analysis or instrument calibration.	100 millicuries each isotope; any byproduct material. 100 milligrams β isotope; any source or special nuclear material.

ENCLOSURE 3
TECHNICAL SPECIFICATION ADDITION

ADDITIONAL SAFETY RELATED PLANT CAPABILITIES
(Or elsewhere, as appropriate, in Section 3)

MISCELLANEOUS RADIOACTIVE MATERIALS SOURCES

Source Leakage Test
Specification

The leakage test shall be capable of detecting the presence of 0.005 microcurie of radioactive material on the test sample. If the test reveals the presence of 0.005 microcurie or more of removable contamination, it shall immediately be withdrawn from use, decontaminate, and repaired, or be disposed of in accordance with Commission regulations. Sealed sources are exempt from such leak tests when the source contains 100 microcuries or less of beta and/or gamma emitting material or 10 microcuries or less of alpha emitting material.

Bases

The objective of this specification is to assure that leakage from byproduct, source, and special nuclear radioactive material sources does not exceed allowable limits.

Surveillance Requirement

Tests for leakage and/or contamination shall be performed by the licensee or by other persons specifically authorized by the Commission or an agreement State, as follows:

1. Each sealed source, except startup sources subject to core flux, containing radioactive material, other than hydrogen 3, with a half-life greater than thirty days and in any form other than gas shall be tested for leakage and/or contamination at intervals not to exceed six months.
2. The periodic leak test required does not apply to sealed sources that are stored and not being used. The sources excepted from this test shall be tested for leakage prior to any use or transfer to another user unless they have been leak tested within six months prior to the date of use or transfer. In the absence of a certificate from a transferor indicating that a test has been made within six months prior to the transfer, sealed source shall not be put into use until tested.
3. Startup sources shall be leak tested prior to and following any repair or maintenance and before being subjected to core flux.

REPORTING REQUIREMENTS

SEMI-ANNUAL OPERATING REPORTS

Operations Summary

Results of required leak tests performed on sources if the tests reveal the presence of 0.005 microcurie or more of removable contamination.

RECORDS RETENTION

A complete inventory of radioactive materials in possession shall be maintained current at all times.

Records required to be maintained for five years:

1. Test results, in units of microcuries, for leak tests performed pursuant to Specification _____.
2. Record of annual physical inventory verifying accountability of sources on record.