

MATERIALS LICENSE

Pursuant to the Atomic Energy Act of 1954, as amended, the Energy Reorganization Act of 1974 (Public Law 93-438), and Title 10, Code of Federal Regulations, Chapter I, Parts 30, 31, 32, 33, 34, 35, 40 and 70, and in reliance on statements and representations heretofore made by the licensee, a license is hereby issued authorizing the licensee to receive, acquire, possess, and transfer byproduct, source, and special nuclear material designated below; to use such material for the purpose(s) and at the place(s) designated below; to deliver or transfer such material to persons authorized to receive it in accordance with the regulations of the applicable Part(s). This license shall be deemed to contain the conditions specified in Section 183 of the Atomic Energy Act of 1954, as amended, and is subject to all applicable rules, regulations and orders of the Nuclear Regulatory Commission now or hereafter in effect and to any conditions specified below.

Licensee		In accordance with letter dated July 27, 1988	
1. Southeastern Oklahoma State University		3. License number SNM-1921 is amended in its entirety to read as follows:	
2. Station A Durant, Oklahoma 74701		4. Expiration date April 30, 1994	
		5. Docket or Reference No. 070-02981	
6. Byproduct, source, and/or special nuclear material	7. Chemical and/or physical form	8. Maximum amount that licensee may possess at any one time under this license	
A. Plutonium-239	A. Sealed neutron source (NUMEC)	A. 32 grams encapsulated as a Pu-Be neutron source	

9. Authorized use

A. In Nuclear Materials and Equipment Corporation Model B neutron howitzer for education, training, and laboratory activation analysis experiments.

CONDITIONS

- 10. Licensed material shall be used only at the Science Building, Southeastern Oklahoma State University, Durant, Oklahoma.
- 11. Licensed material shall be used by, or under the supervision of, Lewis L. Barker.
- 12. A. (1) The source specified in Item 7. shall be tested for leakage and/or contamination at intervals not to exceed 6 months. Any source received from another person which is not accompanied by a certificate indicating that a test was performed within 6 months before the transfer shall not be put into use until tested.

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MATERIALS LICENSE
SUPPLEMENTARY SHEET

License number

SNM-1921

Docket or Reference number

070-02981

Amendment No. 01

(2) Notwithstanding the periodic leak test required by this condition, any licensed sealed source is 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.

B. Any source in storage and not being used need not be tested. When the source is removed from storage for use or transfer to another person, it shall be tested before use or transfer.

C. The 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, the source shall be removed from service and decontaminated, repaired, or disposed of in accordance with Commission regulations. A report shall be filed within 5 days of the date the leak test result is known with the U.S. Nuclear Regulatory Commission, Region IV, 611 Ryan Plaza Drive, Suite 1000, Arlington, Texas 76011, ATTN: Director, Division of Radiation Safety and Safeguards. The report shall specify the source involved, the test results, and corrective action taken. Records of leak test results shall be kept in units of microcuries and shall be maintained for inspection by the Commission. Records may be disposed of following Commission inspection.

D. Tests for leakage and/or contamination shall be performed by the licensee or by other persons specifically licensed by the Commission or an Agreement State to perform such services.

13. Sealed sources containing licensed material shall not be opened.

14. Except as specifically provided otherwise in this license, the licensee shall conduct its program in accordance with the statements, representations, and procedures contained in the documents, including any enclosures, listed below. The Nuclear Regulatory Commission's regulations shall govern unless the statements, representations, and procedures in the licensee's application and correspondence are more restrictive than the regulations.

A. Application dated June 7, 1982

B. Letter dated April 7, 1983

FOR THE U.S. NUCLEAR REGULATORY COMMISSION

Original signed by
C. L. Cain

Date APR 18 1989

By
Nuclear Materials Licensing Section
Region IV
Arlington, Texas 76011

OFFICIAL RECORD COPY

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APR 18 1989

NMLS:CLC
Control No. 462088

Southeastern Oklahoma State University
ATTN: Lewis L. Barker
Radiation Safety Officer
Station A
Durant, Oklahoma 74701

Gentlemen:

Please find enclosed Amendment No. 01 renewing your NRC material license in response to your letter dated July 27, 1988.

Your letter requests renewal of your license but does not clearly state that your radiation program continues in every detail as described in your license application dated June 7, 1982, and your letter dated April 7, 1983. You should review these documents to ensure that this is the case. If changes are necessary, you should request an amendment to your license. This request should identify these changes or include a completely revised application for license.

You should review the enclosed license carefully and be sure that you understand all conditions. If you have any questions, you may contact the undersigned at (817) 860-8186.

Please be advised that you must conduct your program involving radioactive materials in accordance with the conditions of your NRC license, representations made in your license application, and NRC regulations. In particular, note that you must:

1. Operate in accordance with NRC regulations 10 CFR Part 19, "Notices, Instructions and Reports to Workers; Inspections," 10 CFR Part 20, "Standards for Protection Against Radiation," and other applicable regulations.
2. Possess radioactive material only in the quantity and form indicated in your license.
3. Use radioactive material only for the purpose indicated in your license.
4. Notify NRC in writing of any change in mailing address (no fee required if the location of radioactive material remains the same).

RIV:C:NMLSc
CLCain
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5. Request and obtain appropriate amendments if you plan to change ownership of your sole proprietorship or partnership, change the corporate status of your company, change locations of radioactive material, or make any other changes in your facility or program which are contrary to your license conditions or representations made in your license application and any supplemental correspondence with NRC. A license fee may be charged for the amendments if you are not in a fee-exempt category.
6. Submit a complete renewal application with proper fee, or termination request at least 30 days before the expiration date on your license. You will receive a reminder notice approximately 90 days before the expiration date. Possession of radioactive material after your license expires is a violation of NRC regulations.
7. Request termination of your license if you plan to permanently discontinue activities involving radioactive material.

You will be periodically inspected by NRC. A fee may be charged for inspections in accordance with 10 CFR Part 170. Failure to conduct your program in accordance with NRC regulations, license conditions, and representations made in your license application and supplemental correspondence with NRC will result in enforcement action against you. This could include issuance of a notice of violation; imposition of a civil penalty; or an order suspending, modifying, or revoking your license as specified in the General Policy and Procedures for NRC Enforcement Action, 10 CFR Part 2, Appendix C. Since serious consequences to employees and the public can result from failure to comply with NRC requirements, prompt and vigorous enforcement action will be taken when dealing with licensees who do not achieve the necessary meticulous attention to detail and the high standard of compliance which the NRC expects of its licensees.

Thank you for your cooperation.

Sincerely,

Original signed by
C. L. Cain

Charles L. Cain, Chief
Nuclear Materials Licensing Section

Enclosure:
As stated

SEP 6 1988

Southeastern Oklahoma State University
Department of Physical Sciences
ATTN: Lewis Barker
Emeritus Professor of Physics
Durant, Oklahoma 74701

Docket No. 070-02981
License No. SNM-1921
Control No. 462088

Gentlemen:

This is to acknowledge receipt of your application for renewal of the byproduct material license identified above. Your application is deemed timely filed and, accordingly, the license will not expire until final action has been taken by this office.

Any correspondence regarding the renewal application should reference the control number specified and your license number.

Sincerely,

Original signed by
J. A. Marshall

Charles L. Cain, Chief
Nuclear Materials Licensing Section

NMLS *JAM*
JAmrshall/cz
8/30/88

JAM
C:NMLS
for CLCain
8/30/88

BETWEEN:

LICENSE FEE MANAGEMENT BRANCH, ARM
AND
REGIONAL LICENSING SECTIONS

(FOR LFMS USE)
INFORMATION FROM LTS

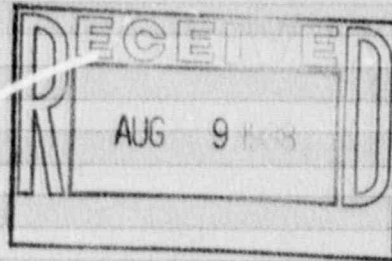
PROGRAM CODE: 22150
STATUS CODE: 2
FEE CATEGORY: EX 1K
EXP. DATE: 19880731
FEE COMMENTS: -----
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LICENSE FEE TRANSMITTAL

A. REGION *IV*

1. APPLICATION ATTACHED

APPLICANT/LICENSEE: SOUTHEASTERN OKLAHOMA STATE UNIVERS
RECEIVED DATE: 880729
DOCKET NO: 7002981
CONTROL NO.: 462088
LICENSE NO.: SNM-1921
ACTION TYPE: RENEWAL



2. FEE ATTACHED

AMOUNT: -----
CHECK NO.: -----

3. COMMENTS

SIGNED *[Signature]*
DATE *7/29/88*

B. LICENSE FEE MANAGEMENT BRANCH (CHECK WHEN MILESTONE 03 IS ENTERED *1/1*)

1. FEE CATEGORY AND AMOUNT: *EX/K* -----
170.1K(5)

2. CORRECT FEE PAID. APPLICATION MAY BE PROCESSED FOR:
AMENDMENT -----
RENEWAL -----
LICENSE -----

3. OTHER -----

SIGNED *[Signature]*
DATE *8/10*