

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, 39, 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

1. South Dakota State University
2. P.O. Box 2202
Brookings, South Dakota 57007-2298

In accordance with letter dated
October 7, 1996

3. License number SNM-200 is amended in
its entirety to read as follows:

4. Expiration date June 30, 1995

5. Docket or
Reference No 070-00218

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
sources (Monsanto
Serial Nos. M495,
M496, M497, M498,
and M499)

A. 80 grams

9. Authorized use

- A. For use in experiments and demonstrations for student instruction and
activation analysis of biological and environmental samples.

CONDITIONS

10. Licensed material shall be used only at the licensee's facility located at Crothers Engineering Hall, South Dakota State University, Brookings, South Dakota.
11.
 - A. Licensed material shall only be used by, or under the supervision of, individuals designated by the Radiation Safety Committee, Leo H. Spinar, Ph.D., Chairperson.
 - B. The Radiation Safety Officer for this license is Leo H. Spinar, Ph.D.
12.
 - A. Sealed sources and detector cells shall be tested for leakage and/or contamination at intervals not to exceed 6 months or at such other intervals as specified by the certificate of registration referred to in 10 CFR 32.210.
 - B. Notwithstanding Paragraph A of this Condition, sealed sources designed to emit alpha particles shall be tested for leakage and/or contamination at intervals not to exceed 3 months.

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MATERIALS LICENSE
SUPPLEMENTARY SHEET

License Number

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Amendment No. 06

CORRECTED COPY

- C. In the absence of a certificate from a transferor indicating that a leak test has been made within 6 months prior to the transfer, a sealed source or detector cell received from another person shall not be put into use until tested.
- D. Sealed sources need not be leak tested if:
- (i) they contain only hydrogen-3; or
 - (ii) they contain only a radioactive gas; or
 - (iii) the half-life of the isotope is 30 days or less; or
 - (iv) they contain not more than 100 microcuries of beta and/or gamma emitting material or not more than 10 microcuries of alpha emitting material; or
 - (v) they are not designed to emit alpha particles, are in storage, and are not being used. However, when they are removed from storage for use or transferred to another person, and have not been tested within the required leak test interval, they shall be tested before use or transfer. No sealed source or detector cell shall be stored for a period of more than 10 years without being tested for leakage and/or contamination.
- E. The leak 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, a report shall be filed with the U.S. Nuclear Regulatory Commission in accordance with 10 CFR 30.50(b)(2), and the source shall be removed immediately from service and decontaminated, repaired, or disposed of in accordance with Commission regulations. The 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 400, 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.
- F. 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 or detector cells containing licensed material shall not be opened or sources removed from source holders by the licensee.
14. The licensee shall conduct a physical inventory every 6 months to account for all sources and/or devices received and possessed under the license.

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15. In addition to the possession limits in Item 8, the licensee shall further restrict the possession of licensed material to quantities below the minimum limit specified in 10 CFR 30.35(d) for establishing decommissioning financial assurance.
16. 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 U.S. 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 September 30, 1983
 - B. Application dated January 12, 1989
 - C. Letter dated June 2, 1995
 - D. Letter dated November 22, 1996

FOR THE U.S. NUCLEAR REGULATORY COMMISSION

Original Signed By
Jacqueline D. Burks

Date

DEC 30 1996

By

Jacqueline D. Burks
Nuclear Materials Licensing Branch
Region IV
Arlington, Texas 76011



UNITED STATES
NUCLEAR REGULATORY COMMISSION

REGION IV

611 RYAN PLAZA DRIVE, SUITE 400
ARLINGTON, TEXAS 76011-8064

December 30, 1996

South Dakota State University
ATTN: Robert T. Wagner, President
P.O. Box 2202
Brookings, SD 57007-2298

Gentlemen:

Enclosed is corrected copy to License No. SNM-200, Amendment No. 06, dated December 5, 1996, changing Condition 11.B. You should review this document for correctness and completeness. Please disregard our previous letter dated December 16, 1996 concerning corrected copy to License No. SNM-200.

After review of your November 22, 1996, response to our deficiency letter dated October 30, 1996, Dr. Gary Yarrow is approved as Radiation Safety Officer (RSO) for License No. SNM-200. As stated in your letter dated October 7, 1996, please notify us when Dr. Yarrow assumes the position of RSO. Upon receipt of this notification, we will issue a "fee-exempt" amendment. When submitting this information, be sure to indicate that this amendment is a continuation of Control No. 466224.

If you have any questions concerning this action, please feel free to contact us at 817-860-8132.

Sincerely,

Original Signed By
Jacqueline D. Burks

Jacqueline D. Burks
Health Physicist
Nuclear Materials Licensing Branch

License: SNM-200
Docket: 070-00218
Control: 466224

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