

MATERIALS LICENSE

Amendment No. 10

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 application received April 2, 1987
1. Montana Bureau of Mines and Geology Montana College of Mineral Science and Technology Foundation		3. License number 25-15640-01 is amended in its entirety to read as follows:
2. Butte, Montana 59701		4. Expiration date August 31, 1989
		5. Docket or Reference No. 030-09501
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. Cesium-137	A. Sealed sources (3M Model 4F6B, Gamma Industries Model VD(HP), or Gulf Nuclear Model CSV)	A. Not to exceed 150 millicuries per source
B. Americium-241	B. Sealed sources (Gamma Industries Model NB(HP))	B. Not to exceed 1 curie per source
C. Americium-241	C. Sealed sources (Amersham Model AMC or AMC 62, New England Nuclear Model NER 473, or Isotope Products Model PH-241-1)	C. Not to exceed 10 millicuries per source
D. Nickel-63	D. Plated sources in Hewlett-Packard Models 18803 and 60520 detector cells	D. Not to exceed 15 millicuries per source

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REG4 LIC30
25-15640-01 PDR

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SUPPLEMENTARY SHEET**

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9. Authorized use:

- A. and B. For use in well logging of coal, geothermal, mineral boreholes, and oil and gas wells.
- C. For use in Columbia Scientific X-ray Fluorescence spectrometer.
- D. For use in gas chromatographs for sample analysis.

CONDITIONS

- 10. Licensed material may be used at Montana College of Mineral Science and Technology, West Park Street, Butte, Montana; Montana Bureau of Mines and Geology, Field Officer, Eastern Montana College, 1500 North 30th, Billings, Montana; and temporary job sites of the licensee anywhere in the United States where the U. S. Nuclear Regulatory Commission maintains jurisdiction for regulating the use of licensed material.
- 11. Licensed material shall be used by, or under the supervision and in the physical presence of, Fred Schmidt, Joseph Lalley, Michael Stickney, Marek Zaluski, or individuals who have completed the training outline in application dated July 10, 1986.
- 12. A. (1) The sources specified in Items 7.A through 7.D 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.
(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.

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12. (continued)

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: Chief, Nuclear Materials and Emergency Preparedness Branch. 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. The licensee is authorized to collect leak test samples for analysis by Nuclear Sources and Sources, Inc. or tests for leakage and/or contamination shall be performed by 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. The licensee shall conduct a physical inventory every 6 months to account for all sources and/or devices received and possessed under the license. Records of inventories shall be maintained for 2 years from the date of each inventory.

15. 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 December 15, 1983
- B. Letter dated August 6, 1984
- C. Letter dated June 12, 1985
- D. Letter September 6, 1985
- E. Application dated July 10, 1986
- F. Letter dated April 2, 1987

FOR THE U.S. NUCLEAR REGULATORY COMMISSION

Original signed by
JACK E. WHITTEN

Date

AUG 12 1987

By

Nuclear Materials Licensing Section
Region IV
Arlington, Texas 76011

MLA9



UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION IV
811 RYAN PLAZA DRIVE, SUITE 1000
ARLINGTON, TEXAS 76011

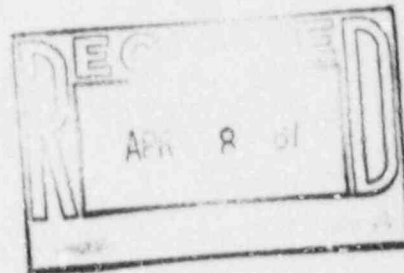
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BETWEEN: William O. Miller, Chief
License Fee Management Branch
Office of Administration

R. J. Everett, Chief
Material Radiation Protection Section, TPB,
DV&TP, RIV



LICENSEE FEE TRANSMITTAL

A. REGION IV

1. APPLICATION ATTACHED

Applicant/Licensee:

Application Dated:

Control No.:

License No.:

Montana Bur. of Mines & Geo.
3/27/87
461450
25-15640-01 (030-09501)

2. FEE ATTACHED

Amount:

Check No.:

3. COMMENTS

Signed

Date

Laura Hurley
4/2/87

B. LICENSEE FEE MANAGEMENT BRANCH

1. Fee Category and Amount:

2. Correct Fee Paid. Application may be processed for:

Amendment ☒

Renewal ☐

License ☐

FEE EXEMPT

Signed

Date

M. Hurley
4/6/87