

MATERIALS LICENSE

Amendment No. 11

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, 36, 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.

301920

Licensee

1. The Ohio State University
Office of Environmental and
Occupational Health and Safety
2. Room 210
1314 Kinnear Road
Columbus, OH 43212-1168

In accordance with letter dated
September 30, 1996
3. License Number SNM-732 is amended in
its entirety to read as follows:

4. Expiration Date April 30, 2001

5. Docket or
Reference No. 070-008016. Byproduct, Source, and/or
Special Nuclear Material7. Chemical and/or Physical
Form8. Maximum Amount that Licensee
May Possess at Any One Time
Under This LicenseA. Plutonium (Principal
radionuclide Pu-239)A. Encapsulated as a
Pu-Be neutron source
(NUMEC)

A. 80 grams

9. Authorized Use:

- A. To be used in a neutron howitzer for student instruction.

CONDITIONS

10. Licensed material shall be stored in Room 1030B, Robinson Laboratory, 206 W. 18th Avenue, Columbus, Ohio and may be used in any room in Robinson Laboratory designed for the purpose of conducting laboratory experiments.
11. Licensed material shall be used by, or under the supervision of, Thomas E. Blue, Ph.D.
12. The Radiation Protection Officer for the activities authorized by this license is Robert E. Peterson.
13. Sealed sources containing licensed material shall not be opened.

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**MATERIALS LICENSE
SUPPLEMENTARY SHEET**

License Number

SNM-732

Docket or Reference Number

070-00801

Amendment No. 11

14. A. Each encapsulated plutonium source designed for the purpose of emitting neutron or gamma radiation shall be tested for leakage at intervals not to exceed six (6) months. In the absence of a certificate from a transferor indicating that a test has been made within six (6) months prior to the transfer, a sealed source received from another person shall not be put into use until tested.
- B. The test shall be capable of detecting the presence of 0.005 microcurie of alpha contamination on the test sample. The test sample shall be taken from the source or from appropriate accessible surfaces of the device in which the sealed source is permanently or semipermanently mounted or stored. Records of leak test results shall be kept in units of microcuries and maintained for inspection by the Commission.
- C. If the test reveals the presence of 0.005 microcuries or more of removable alpha contamination, the licensee shall immediately withdraw the sealed source from use and shall cause it to be decontaminated and repaired by a person appropriately licensed to make such repairs or to be disposed of in accordance with the Commission regulations. Within five (5) days after determining that any source has leaked, the licensee shall file a report with the Material Licensing Branch, Division of Fuel Cycle and Material Safety, U.S. Nuclear Regulatory Commission, Washington, D.C. 20555, describing the source, the test results, the extent of contamination, the apparent or suspected cause of source failure, and the corrective action taken. A copy of the report shall be sent to the U.S. Nuclear Regulatory Commission, Region III, 801 Warrenville Road, Lisle, Illinois 60532-4351.
- D. The periodic leak test required by this condition 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 of transfer to another person unless they have been leak tested within six (6) months prior to the date of use or transfer.
15. Licensing material shall not be used in or on human beings or in products distributed to the public.
16. Except for plutonium contained in a medical device designed for individual human application, no plutonium, regardless of form, shall be delivered to a carrier for shipment by air transport or transported in an aircraft by the licensee except in packages the design of which the NRC has specifically approved for transport of plutonium by air.

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17. The licensee shall develop procedures to be followed in the event of fire or other emergencies that may involve damage to or loss of the Pu-Be source.
18. The licensee shall maintain records of information important to safe and effective decommissioning at 1314 Kinnear Road, Columbus, Ohio as specified in 10 CFR 30.35(g) until this license is terminated by the Commission.
19. 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. Applications dated November 30, 1990, and December 1, 1994; and
 - B. Letters dated August 29, 1994, and September 30, 1996.

FOR THE U.S. NUCLEAR REGULATORY COMMISSION

Date

10/24/96

By

Kevin D. Pelt

Nuclear Materials Licensing Branch, Region III

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BETWEEN:

License Fee Management Branch, ARM
and
Regional Licensing Sections

(FOR LFMS USE)
INFORMATION FROM LTS

Program Code: 22120
Status Code: 0
Fee Category: EX 1D
Exp. Date: 20010430
Fee Comments: 170.11(A)(4)
Decom Fin Assur Req: N

LICENSE FEE TRANSMITTAL

A. REGION

1. APPLICATION ATTACHED

Applicant/Licensee: OHIO STATE UNIVERSITY (THE)
Received Date: 961007
Docket No: 7000801
Control No.: 301920
License No.: SNM-732
Action Type: Amendment

2. FEE ATTACHED

Amount: 0
Check No.: 0

3. COMMENTS

Signed
Date

D. Hensley
10-8-96

B. LICENSE FEE MANAGEMENT BRANCH (Check when milestone 02 is entered ☒ 1)

1. Fee Category and Amount:

EX 1D 170.11(A)(4)

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

Amendment ☒
Renewal
License

3. OTHER

Signed
Date

SC
10/15/96

1996 OCT 11 PM 3:52

OCT 23 1996

RECEIVED BY LFDCB

Date *Oct. 11, 1996*

Log *Oct 6 III*

By *SC*

Date Completed *10/15/96*



Office of Environmental
Health and Safety

1314 Kinnear Road, Room 210
Columbus, OH 43212-1168

Phone 614-292-1284
FAX 614-292-6404

September 30, 1996

Kevin Null
Materials Licensing Branch
US Nuclear Regulatory Commission, Region III
801 Warrenville Road
Lisle, Illinois 60532-4351

**RE: Application for Amendment to License Number SNM-732;
Docket Number 070-00801**

Dear Mr. Null,

According to our present license conditions the $^{239}\text{PuBe}$ neutron howitzer is stored in 1037A Robinson. We are requesting an amendment to allow The Ohio State University to store this device to 1030B Robinson Laboratory. The control of the source will be no different as described in our November 29, 1994 application.

We request a priority review of this application because the University will begin remodeling of 1037A Robinson Laboratory in the near future.

If you have any questions please call me at (614) 292-1284.

Sincerely,

Robert E. Peterson, Jr.
University Radiation Safety Officer

cc Thomas Blue, Ph.D.
Cecil R. Smith, DPH
License File SNM-732

170.11(A)(4)
FEE EXEMPT

RECEIVED
OCT 07 1996
REGION III

301920
OCT 07 1996

pm: 10-2-96

OCT 28 1996

Robert E. Peterson, Jr.
Radiation Safety Officer
The Ohio State University
1314 Kinnear Road, Room 210
Columbus, OH 43212-1168

Dear Mr. Peterson:

Enclosed is the NRC license or license amendment which you requested.

You are encouraged to carefully review your license or amendment upon receipt as special conditions may have been added to ensure that the changes requested meet NRC requirements.

Any future correspondence relating to your license should specifically reference your license number to expedite your inquiry.

Should you have any questions regarding your new license or amendment or require clarification, please contact the Nuclear Materials Licensing Branch at (630) 829-9887.

Sincerely,

Original Signed By
Kevin G. Null
Nuclear Materials Licensing Branch

License No. SNM-732
Docket No. 070-00801

Enclosures: As stated

DOCUMENT NAME: M:\07000801.CL6

To receive a copy of this document, indicate in the box: "C" = Copy without enclosures "E" = Copy with enclosures "N" = No copy

OFFICE	DNMS/RIII									
NAME	KGNULL:jaw									
DATE	10/2/96									

OFFICIAL RECORD COPY

301920



UNITED STATES
NUCLEAR REGULATORY COMMISSION

REGION III
801 WARRENVILLE ROAD
LISLE, ILLINOIS 60532-4351

October 8, 1996

Robert E. Peterson
Radiation Safety Officer
The Ohio State University
Office Environmental Occupational
Health & Safety/Room 210
1314 Kinnear Road
Columbus, OH 43212-1194

SUBJECT: ACKNOWLEDGEMENT OF CORRESPONDENCE
(Letter Dated 09/30/96)

Dear Licensee:

In response to your request, we have completed the initial processing, which is an administrative review of your application for a(n):

☐ New License ☒ Amendment ☐ Renewal
☐ Termination ☐ Auth User (Amendment not required)
☐ Other _____

No administrative deficiencies were identified during this initial review. However, it should be noted that a technical review may identify omissions in the submitted information.

It appears that your request is routine (see 1-3 below, as applicable).

1. New and amendment actions are normally processed within 90 days, unless we find major deficiencies, or policy issues requiring central program office assistance.
2. Renewal actions are normally processed within 180 days, however, under timely filing (before expiration), you may continue to operate under your existing license.
3. Termination actions are normally processed within 90 days, unless confirmatory surveys following decontamination/decommissioning activities are involved.

A copy of your correspondence has been forwarded to our Licensing Fee and Debt Collection Branch (301/415-6097) for approval of the fee category and amount, if required.

If you have a compelling safety or business-related reason for requesting expedited review, please contact the Materials Licensing Branch at (630) 829-9887. We will try to complete your request as soon as practicable. Any correspondence about this request should reference the control number.

Nuclear Materials Support Branch

Mail Control No. 301920
License No. SNM-732