

## MATERIALS LICENSE

Amendment No. 05

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.

<p>Licensee</p> <p>1. The Ohio State University Office of Environmental and Occupational Health and Safety</p> <p>2. Room 210 1314 Kinnear Road Columbus, OH 43212-1194</p>	<p>362443</p> <p>In accordance with letter dated March 21, 1997</p> <p>3. License Number 34-00293-14 is amended in its entirety to read as follows:</p> <p>4. Expiration Date March 31, 1998</p> <p>5. Docket or Reference No. 030-31605</p>	
<p>6. Byproduct, Source, and/or Special Nuclear Material</p> <p>A. Cobalt-60</p>	<p>7. Chemical and/or Physical Form</p> <p>A. Sealed sources (which have been registered pursuant to 10 CFR Part 32, Section 32.210 or equivalent Agreement State regulations)</p>	<p>8. Maximum Amount that Licensee May Possess at Any One Time Under This License</p> <p>A. 21,000 curies</p>

## 9. Authorized Use:

- A. To be used in a self-contained wet storage irradiator for in-water irradiation studies described in application dated March 5, 1990 (excluding flammable and explosive materials) and student instruction.

CONDITIONS

10. Licensed material shall be used only at the licensee's facilities located at the Ohio State University Nuclear Reactor Laboratory, Bulk Shielding Facility Pool, 1298 Kinnear Road, Columbus, Ohio.
11. Licensed material shall be used by, or under the supervision of, Richard D. Myser, Joseph W. Tainagi, or Michael J. Davis.
12. The Radiation Protection Officer for the activities authorized by this licensee is Robert E. Peterson.

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MATERIALS LICENSE  
SUPPLEMENTARY SHEET

License Number

34-00293-14

Docket or Reference Number

030-31605

Amendment No. 05

13. The ion exchange resin filter bed shall be monitored as specified in application dated March 5, 1990 (Item 10.3). If any radioactivity above normal background is detected, the licensee shall determine if the radioactivity is due to a leaking source. Any source found to be leaking shall be removed from service. A report of a leaking source shall be made within 5 days of the date the leak test result is known to the U.S. Nuclear Regulatory Commission, Region III, 801 Warrenville Road, Lisle, Illinois 60532-4351, ATTN: Chief, Nuclear Materials Safety Branch.
14. The licensee shall not perform repairs or alternations of the irradiator involving removal of shielding or access to the licensed material. Installation, relocation, removal, replacement, and disposal of sealed sources in the irradiator shall be performed by, or under the supervision and in the physical presence of Richard D. Myser, Joseph W. Talnagi, or Michael J. Davis, or other persons specifically licensed by the Commission or an Agreement State to perform such services.
15. The licensee shall conduct a physical inventory every 6 months to account for all sources received and possessed under the license. Records of inventories shall be maintained for 2 years from the date of each inventory.
16. Written instructions described in Item 10.4.2 of application dated March 5, 1990 shall be followed and a copy of these instructions shall be made available to each individual using or having responsibility for use of licensed material.
17. The licensee shall maintain records of information important to safe and effective decommissioning at the location specified in Condition 10. per the provisions of 10 CFR 30.35(g) until this license is terminated by the Commission.
18. 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 March 5, 1990 (with attachments); and
- B. Letters dated December 7, 1990, July 2, 1991, August 29, 1994, April 15, 1996 and September 9, 1996.

FOR THE U.S. NUCLEAR REGULATORY COMMISSION

Date APR 04 1997

By

*Patricia J. Leech*  
Nuclear Materials Licensing Branch, Region III

COPY

BETWEEN:

License Fee Management Branch, ARM  
and  
Regional Licensing Sections

(FOR LFMS USE)  
INFORMATION FROM LTS

Program Code: 03521  
Status Code: 2  
Fee Category: EX 3G  
Exp. Date: 19960731  
Fee Comments: 170.11(A)(4)  
Decom Fin Assur Req'd: N

R6

LICENSE FEE TRANSMITTAL

A. REGION

1. APPLICATION ATTACHED

Applicant/Licensee: OHIO STATE UNIVERSITY (THE)  
Received Date: 970321  
Docket No: 3031605  
Control No.: 302443  
License No.: 34-00293-14  
Action Type: Amendment

2. FEE ATTACHED

Amount: ~~-----~~  
Check No.: ~~-----~~

\* ADDL INFO  
301344 - R6

3. COMMENTS

Signed S. Hersey  
Date 3-21-97

B. LICENSE FEE MANAGEMENT BRANCH (Check when milestone 03 is entered /-1)

1. Fee Category and Amount: EX 3G 170.11(A)(4)

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

Amendment ☒  
Renewal ☐  
License ☐

3. OTHER

Signed SC  
Date 4/1/97

APR 03 1997

Log	<u>Apr 1 III</u>
Remitter	<u>-----</u>
Check No.	<u>-----</u>
Amount	<u>-----</u>
Fee Category	<u>EX 3G</u>
Type of Fee	<u>AMD</u>
Date Check Rec'd	<u>-----</u>
Date Completed	<u>4/1/97</u>
By:	<u>SC</u>

1997 APR - 1 PM 2:12



Office of Environmental  
Health and Safety

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

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

March 21, 1997

Ms. Patricia Pelke  
Materials Licensing Branch  
U.S. Nuclear Regulatory Commission, Region III  
801 Warrenton Road  
Lisle, Illinois 60532-4351

RE: Extension of Expiration Date for NRC License 34-00293-14  
Control Number 01344

Dear Ms. Pelke:

The Ohio State University is requesting an extension of the expiration date for the NRC license 34-00293-14 from July 31, 1996 to March 31, 1998. This will allow the University to submit a license renewal application.

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

Thank you for your cooperation and assistance in this matter.

Sincerely,

*Robert E. Peterson Jr.*

Robert E. Peterson, Jr.

University Radiation Safety Officer

cc Richard Myser, Nuclear Reactor Laboratory  
Cecil R. Smith, Dr.P.H., Assistant Vice President  
RS Files

*Antony 301344*  
**FEE EXEMPT**  
*170.11(4)(4)*

*pm: 3-22-97*

**RECEIVED**

**MAR 26 1997**

**REGION III**

**MAR 26 1997**

*302443*



APR 04 1997

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

Dear Mr. Peterson:

Enclosed is Amendment No. 05 to your NRC Material License No. 34-00293-14 in accordance with your request.

Please note that Item No. 4 (Expiration Date) of this license has been amended to March 31, 1998.

Please review the enclosed document carefully and be sure that you understand all conditions. If there are any errors or questions, please notify the U.S. Nuclear Regulatory Commission, Region III office so that we can provide appropriate corrections and answers.

Sincerely,

Original Signed By  
Patricia J. Pelke  
Nuclear Materials Licensing Branch

License No. 34-00293-14  
Docket No. 030-31605

Enclosure: Amendment No. 05

DOCUMENT NAME: M:\03031605.CL7

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

OFFICE	DNMS/RIII								
NAME	PJPelke:brt								
DATE	04/11/97								

OFFICIAL RECORD COPY

302443



UNITED STATES  
NUCLEAR REGULATORY COMMISSION

REGION III  
801 WARRENVILLE ROAD  
LISLE, ILLINOIS 60532-4351

March 27, 1997

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

SUBJECT: ACKNOWLEDGEMENT OF CORRESPONDENCE  
(Letter Dated 03/21/97)

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. 302443  
License No. 34-00293-14