

U.S. NUCLEAR REGULATORY COMMISSION

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, 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.

PCO 3620
Licensee

573286
In accordance with application dated

July 20, 2010,

1. Kansas City University of Medicine and Biosciences
2. 1750 Independence Avenue
Kansas City, MO 64106-1453

3. License number 24-32265-01 is **renewed** in its entirety to read as follows:

4. Expiration date **February 28, 2021**

5. Docket No. 030-35493
Reference No.

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. Sulfur-35	A. Any	A. 25 millicuries
B. Phosphorus-32	B. Any	B. 75 millicuries
C. Phosphorus-33	C. Any	C. 25 millicuries
D. Hydrogen-3	D. Any	D. 25 millicuries

9. Authorized Use:

A. through D. Research and development as defined in Section 30.4 of 10 CFR Part 30, (excluding animal studies).

CONDITIONS

10. Licensed material shall be used only at the licensee's facilities located at 1740 Independence Avenue, Kansas City Missouri and 1750 Independence Avenue, Kansas City, Missouri
11. The Radiation Safety Officer for this license is **Mary P. McRae, Ph.D**
12. A. Licensed material listed in Item 6 above is only authorized for use by, or under the supervision of, the following individuals for the materials and uses indicated:

Authorized Users

Material and Use

Robert White, Ph.D.

Phosphorus-32

Abdulbaki Agbas, Ph.D.

Sulfur-35 and Phosphorus-32

Mary Peace McRae, Ph.D.

All

**MATERIALS LICENSE
SUPPLEMENTARY SHEET**License Number
24-32265-01Docket or Reference Number
030-35493

Amendment No. 07

13. The licensee is authorized to hold radioactive material with a physical half-life of less than 120 days for decay-in-storage before disposal in ordinary trash provided:
- A. Before disposal as ordinary trash, byproduct material shall be surveyed at the container surface with the appropriate meter set on its most sensitive scale and with no interposed shielding to determine that its radioactivity cannot be distinguished from background. All radiation labels shall be removed or obliterated.
 - B. A record of each disposal permitted under this License Condition shall be retained for 3 years. The record must include the date of disposal, the date on which the byproduct material was placed in storage, the radionuclides disposed, the survey instrument used, the background dose rate, the dose rate measured at the surface of each waste container, and the name of the individual who performed the disposal.
14. The licensee shall not use licensed material in or on human beings.
15. The licensee is authorized to transport licensed material only in accordance with the provisions of 10 CFR Part 71, "Packaging and Transportation of Radioactive Material."
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 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 **July 20, 2010**

FOR THE U.S. NUCLEAR REGULATORY COMMISSION

Date JAN 23 2011By James R. Mullauer
James R. Mullauer, M.H.S.
Materials Licensing Branch
Region III