

**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, 37, 39, 40, 70 and 71, 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. Universal Medical Resources, Inc.  2. 207 Lange Drive Washington, MO 63090		In accordance with letter dated November 09, 2021,  3. License No.: 24-32189-01 is amended in its entirety to read as follows:	4. Expiration Date: March 31, 2020  5. Docket No.: 030-35121 Reference No.:
6. Byproduct, source, and/or special nuclear material  A. Technetium-99m  B. Thallium-201  C. Cobalt-57  D. Americium-241	7. Chemical and/or physical form  A. Liquid  B. Liquid  C. Sealed Sources (Eckert & Ziegler Isotope Products, Model IND1604; Eckert & Ziegler Isotope Products, d/b/a Isotope Products Laboratories, Model PP Series and IND-1604; International Isotopes Idaho, Inc., Model BM02 Series)  D. Sealed Sources (Amersham, Model AMC.D2)	8. Maximum amount that licensee may possess at any one time under this license  A. 100 millicuries total  B. 100 millicuries total  C. 100 millicuries total  D. 2 millicuries total	9. Authorized use  A. For testing response and performance systems in gamma cameras.  B. For testing response and performance systems in gamma cameras.  C. For testing response and performance systems in gamma cameras.  D. For testing response and performance systems in gamma cameras.

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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

9. Authorized use

E. Sodium-22

E. Sealed Sources (Eckert & Ziegler Isotope Product, d/b/a Isotope Products Laboratories, Model GF-0227)

E. 60 millicuries total

E. For testing response and performance systems in gamma cameras.



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**CONDITIONS**

10. A. Licensed material may be used or stored at the licensee's facilities located at: 207 Lange Drive, Washington, Missouri, 63090.
- B. Licensed material listed in Subitem Nos. 6.A., 6.B. and 6.C., as supplied by each client facility under its own license, may be used at 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, including areas of exclusive Federal jurisdiction within Agreement States. If the jurisdiction status of a Federal facility within an Agreement State is unknown, the licensee should contact the Federal agency controlling the job site in question to determine whether the proposed job site is an area of exclusive Federal jurisdiction. Authorization for use of radioactive materials at job sites in Agreement States not under exclusive Federal jurisdiction should be obtained from the appropriate state regulatory agency.

When used at temporary job sites for servicing gamma cameras: the licensee shall implement the radiation safety program described in this license and the radiation safety program for each client's license, whichever is more restrictive; the licensee shall not transport radioactive material incident to such operations; and the licensee shall conduct surveys as required by 10 CFR 20.1502 and shall maintain records of surveys as required by 10 CFR 20.2103.

11. The Radiation Safety Officer (RSO) for this license is Michael G. Wiese.
12. Licensed material shall only be used by, or under the supervision of, Michael G. Wiese and Jason Kitchell.
13. A. Sealed sources shall be tested for leakage and/or contamination at intervals not to exceed the intervals specified in the certificate of registration issued by the U.S. Nuclear Regulatory Commission under 10 CFR 32.210 or by an Agreement State. In the absence of a registration certificate, sealed sources shall be tested for leakage and/or contamination at intervals not to exceed 6 months, or at such other intervals as specified.
- B. In the absence of a certificate from a transferor indicating that a leak test has been made within the intervals specified in the certificate of registration issued by the U.S. Nuclear Regulatory Commission under 10 CFR 32.210 or by an Agreement State, prior to the transfer, a sealed source received from another person shall not be put into use until tested and the test results received.

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- C. Sealed sources need not be tested if they contain only hydrogen-3; or they contain only a radioactive gas; or the half-life of the isotope is 30 days or less; or they contain not more than 100 microcuries of beta- and/or gamma-emitting material or not more than 10 microcuries of alpha-emitting material.
- D. Sealed sources need not be tested if they 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 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 185 becquerels (0.005 microcuries) of radioactive material on the test sample. If the test reveals the presence of 185 becquerels (0.005 microcuries) or more of removable contamination, a report shall be filed with the U.S. Nuclear Regulatory Commission in accordance with 10 CFR 30.50(c)(2), and the source shall be removed immediately from service and decontaminated, repaired, or disposed of in accordance with Commission regulations.
- F. Tests for leakage and/or contamination, including leak test sample collection and analysis, shall be performed by the licensee or other persons specifically licensed by the U.S. Nuclear Regulatory Commission or an Agreement State to perform such services.
- G. Records of leak test results shall be kept in units of becquerels (microcuries) and shall be maintained for 3 years.
14. Sealed sources containing licensed material shall not be opened or sources removed from source holders by the licensee, except as specifically authorized.
15. The licensee shall conduct a physical inventory every 6 months, or at other intervals approved by the U.S. Nuclear Regulatory Commission, to account for all sealed sources and/or devices received and possessed under the license. Records of inventories shall be maintained for 3 years from the date of each inventory, and shall include the radionuclides, quantities, manufacturer's name and model numbers, and the date of the inventory.
16. The licensee shall not use the licensed material in or on humans.

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17. The licensee is authorized to hold radioactive material with a physical half-life of less than or equal to 120 days for decay-in-storage before disposal in ordinary trash provided:
- A. Before disposal as ordinary trash, the waste shall be surveyed at the container surface with the appropriate survey instrument 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, except for radiation labels on materials that are within containers and that will be managed as biomedical waste after they have been released from the licensee.
  - B. A record of each such 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.
18. In addition to the possession limits in Subitem No. 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.
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. This license condition applies only to those procedures that are required to be submitted in accordance with the regulations. 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 August 25, 2009 (ML092400596)
  - B. Letter dated December 12, 2010 (ML103490886)
  - C. Letter dated July 14, 2014 (ML14199A338)
  - D. Letter dated May 3, 2019 (ML19130A031)
  - E. Letter dated August 16, 2019 excluding all references to the licensee's self-release of restricted areas to unrestricted areas when radioactive materials are not in use (ML19233A091)

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- F. Letter dated November 5, 2019 (ML19309F165)
- G. Application dated December 10, 2019 (ML19347D215)
- H. Letter dated January 29, 2020 (ML20031E728)
- I. Letter dated February 5, 2020 (ML20041E864)
- J. Application dated November 9, 2021 (ML21313A360)



FOR THE U.S. NUCLEAR REGULATORY COMMISSION

Date: November 10, 2021

By: \_\_\_\_\_

Colleen Carol Casey  
Region 3