

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, 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. Triad Isotopes, Inc.</p> <p>2. 4205 Vineland Road Suite L1 Orlando, Florida 32811</p>	<p>In accordance with letters dated February 25, 2016 and March 8, 2016,</p> <p>3. License No. 09-32781-03MD is amended in its entirety to read as follows:</p> <p>4. Expiration Date: July 31, 2025</p> <p>5. Docket No. 030-38279 Reference No. 030-30262/24-04206-11MD</p>	
<p>6. Byproduct, source, and/or special nuclear material</p> <p>A. Any byproduct material with Atomic Numbers 1 through 83, except molybdenum-99, technetium-99m, iodine-131, xenon-133, thallium-201, indium-111, gallium-67, and iodine-123</p> <p>B. Molybdenum-99</p> <p>C. Technetium-99m</p> <p>D. Iodine-131</p> <p>E. Xenon-133</p> <p>F. Thallium-201</p> <p>G. Indium-111</p> <p>H. Gallium-67</p> <p>I. Iodine-123</p> <p>J. Any byproduct material listed in 10 CFR 31.11(a)</p> <p>K. Any byproduct material authorized under 10 CFR 35.65(a) or 35.65(b)</p>	<p>7. Chemical and/or physical form</p> <p>A. Any</p> <p>B. Any</p> <p>C. Any</p> <p>D. Any</p> <p>E. Any</p> <p>F. Any</p> <p>G. Any</p> <p>H. Any</p> <p>I. Any</p> <p>J. Prepackaged units for <i>in vitro</i> diagnostic tests</p> <p>K. Sealed sources</p>	<p>8. Maximum amount that licensee may possess at any one time under this license</p> <p>A. 500 millicuries per radionuclide not to exceed 1 curie total.</p> <p>B. 200 curies</p> <p>C. 200 curies</p> <p>D. 900 millicuries</p> <p>E. 2 curies</p> <p>F. 1 curie</p> <p>G. 250 millicuries</p> <p>H. 250 millicuries</p> <p>I. 250 millicuries</p> <p>J. 20 millicuries</p> <p>K. 300 millicuries</p>

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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 |
| L. Yttrium-90 | L. Unsealed, for preparation of radiopharmaceuticals for medical use | L. 1 curie |
| M. Depleted uranium | M. Metal | M. 200 kilograms |

9. Authorized use:

- A. through I. and L. Preparation and distribution of radioactive drugs, including compounding of iodine-131 and redistribution of unused molybdenum-99/technetium-99 generators, to authorized recipients in accordance with 10 CFR 32.72. Preparation and distribution of radioactive drugs and radiochemicals including compounding of iodine-131 and redistribution of unused molybdenum-99/technetium-99m generators to authorized recipients for non-medical use.
- J. Redistribution to specific licensees or general licensees, pursuant to 10 CFR 31.11, provided the packaging and labeling remain unchanged.
- K. Redistribution of sealed sources to specifically authorized recipients. Pursuant to 10 CFR 32.74, the licensee is authorized to redistribute sources to persons licensed pursuant to 10 CFR 35.65(a), or equivalent licenses of Agreement States.
- M. Shielding for Mo99/Tc99m generators.

CONDITIONS

10. Licensed material shall be used or stored only at the licensee's facilities located at 2795 Universal Drive, Saginaw, Michigan.
11. Licensed material shall be used by, or under the supervision of:
- 1) A pharmacist working or designated as an authorized nuclear pharmacist in accordance with 10 CFR 32.72(b)(2) and (4), or
 - 2) Authorized Nuclear Pharmacists: Robert G. Bjurstrom, PharmD., Robert Masa, PharmD., Jeanine Halverson, R.Ph., David Herrmann, R.Ph., David McLeland, R.Ph., David Persinger, R.Ph., Franz Schmelzer, R. Ph., Deirdre Vaught, R.Ph., Gina Webb, R.Ph., Brian Osterberg, R.Ph., Erica Sztangret, PharmD., Kerry Eberly, R.Ph., Selina Mirjavadi, PharmD, David Osterberg, R.Ph., Michael Schroeder, PharmD, **Nicholas Lanzo, PharmD and James Sindelar, PharmD.**

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12. The Radiation Safety Officer (RSO) for this license is Robert G. Bjurstrom, PharmD.
13. A. Sealed sources shall be tested for leakage and/or contamination at intervals not to exceed six months or at such other intervals as specified by the certificate of registration referred to in 10 CFR 32.210.
- B. In the absence of a certificate from a transferor indicating that a leak test has been made within six months prior to the transfer, a sealed source received from another person shall not be put into use until tested.
- C. 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.
- D. The leak test shall be capable of detecting the presence of 0.005 microcurie (185 becquerels) of radioactive material on the test sample. If the test reveals the presence of 0.005 microcurie (185 becquerels) 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.
- E. Tests for leakage and/or contamination shall be performed by the licensee or by other persons specifically licensed by the Commission or an Agreement State to perform such services.
- F. Records of leak test results shall be kept in units of microcuries and shall be maintained for three years.
14. Sealed sources or detector cells containing licensed material shall not be opened or sources removed from source holders by the licensee.
15. The licensee shall conduct a physical inventory every six months to account for all sources and/or devices received and possessed under the license.
16. 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."
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, byproduct material 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.

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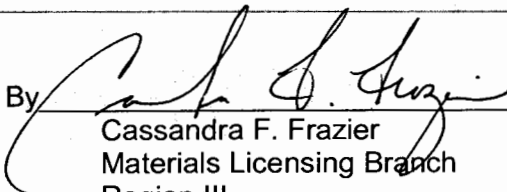
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- B. A record of each disposal permitted under this License Condition shall be retained for three years. The record must include the date of disposal, the date on which the byproduct material was placed in storage, the radionuclides disposed, the survey 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. The licensee is authorized to retrieve, receive and dispose of radioactive waste from its customers limited to radiopharmacy supplied syringes and vials and their contents.
19. In addition to the possession limits in Item 8, the licensee shall further restrict the possession of licensed material to quantities below the minimum limit specified in 10 CFR 30.35(d) and 40.36(b) for establishing decommissioning financial assurance.
20. This license does not authorize distribution to persons exempt from licensing.
21. Except for maintaining labeling as required by 10 CFR Part 20 or 71, the licensee shall obtain authorization from NRC before making any changes in the sealed source, device, or source-device combination that would alter the description or specifications as indicated in the respective Certificates of Registration issued either by the Commission pursuant to 10 CFR 32.210 or by an Agreement State.
22. 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 February 25, 2015 (with cover letter dated February 26, 2015) (ML15058A688).

FOR THE U. S. NUCLEAR REGULATORY COMMISSION

Date MAY 26 2016

By


Cassandra F. Frazier
Materials Licensing Branch
Region III