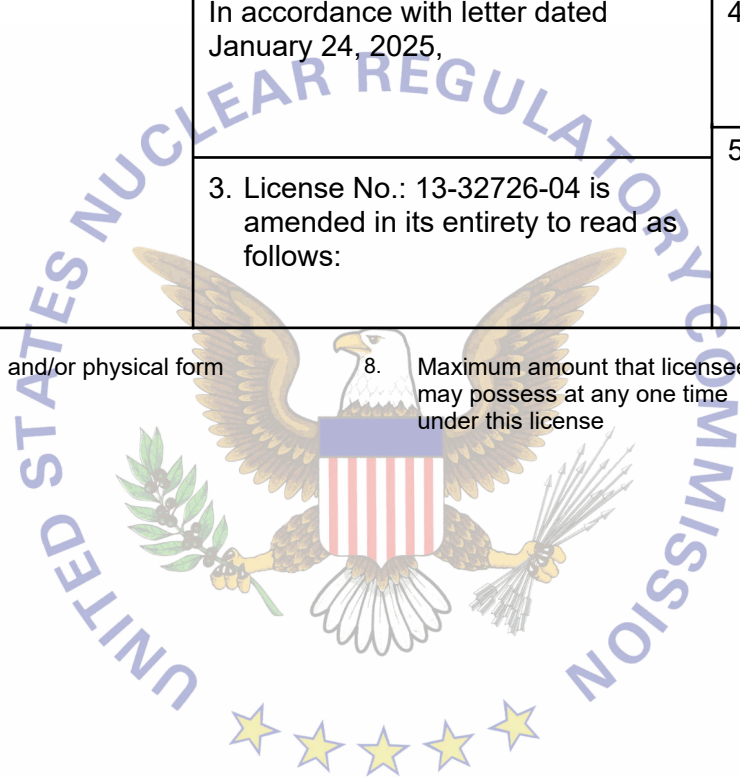


MATERIALS LICENSE

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.

<p style="text-align: center;">Licensee</p> <p>1. NukeMed Technologies Inc.</p> <p>2. 9550 Zionsville Rd. Indianapolis, IN 46268</p>	<p>In accordance with letter dated January 24, 2025,</p>	<p>4. Expiration Date: July 31, 2039</p>
	<p>3. License No.: 13-32726-04 is amended in its entirety to read as follows:</p>	<p>5. Docket No.: 030-39353 Reference No.:</p>

<p>6. Byproduct, source, and/or special nuclear material</p>	<p>7. Chemical and/or physical form</p>	<p>8. Maximum amount that licensee may possess at any one time under this license</p>	<p>9. Authorized use</p>
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License No.: 13-32726-04

Docket or Reference No.:
030-39353

Amendment No. 1

6. Byproduct, source, and/or special nuclear material

A. Any byproduct material with Atomic Numbers 1 through 85

7. Chemical and/or physical form

A. Non-volatile

8. Maximum amount that licensee may possess at any one time under this license

A. 200 millicuries per radionuclide; 2 curies total

9. Authorized use

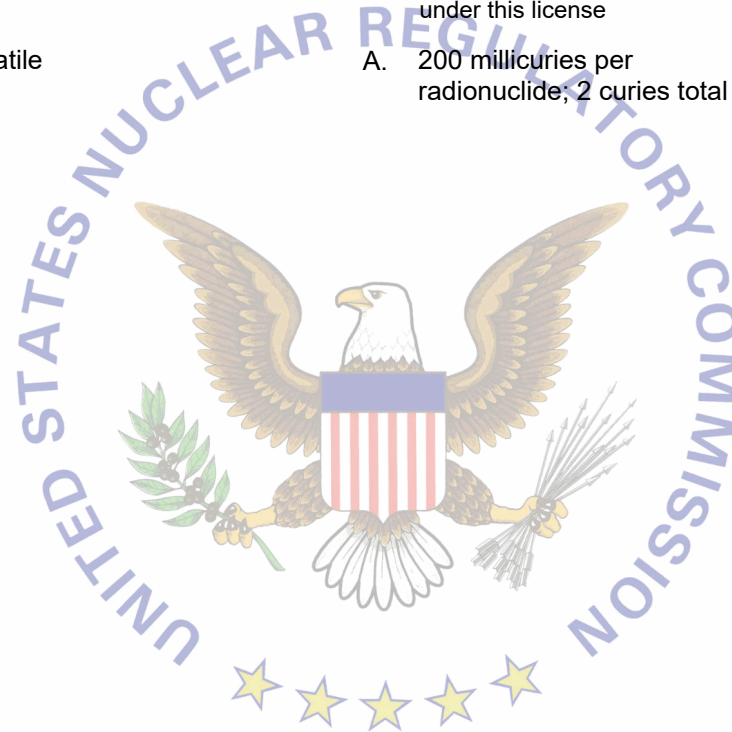
A. For receipt, storage, processing, manufacturing, and packaging of radiochemicals or sealed sources.

For distribution of radiochemicals to persons authorized to receive the licensed material in accordance with the terms and conditions of a specific license issued by the U.S. Nuclear Regulatory Commission or an Agreement State.

For distribution of manufactured sealed sources that have been registered with the Commission in accordance with 10 CFR 32.210 or with an Agreement State, or in accordance with an active Investigational Device Exemption (IDE) application accepted by the U.S. Food and Drug Administration, to persons authorized to receive the licensed material in accordance with the terms and conditions of a specific license issued by the U.S. Nuclear Regulatory Commission or an Agreement State.

For research and development as defined in 10 CFR 30.4.

For calibration and reference.



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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

B. Lead-212

B. Any

B. 400 millicuries total

B. For receipt, storage, processing, manufacturing, and packaging of radiochemicals in generators.

For distribution of radiochemicals to persons authorized to receive the licensed material in accordance with the terms and conditions of a specific license issued by the U.S. Nuclear Regulatory Commission or an Agreement State.

For distribution and redistribution of manufactured generators that have been approved by the U.S. Food and Drug Administration to persons authorized to receive the licensed material in accordance with 10 CFR 35.100(c), 35.200(c), 35.300(c), or equivalent Agreement State regulations, and with the terms and conditions of a specific license issued by the U.S. Nuclear Regulatory Commission or an Agreement State.

For research and development as defined in 10 CFR 30.4.

C. Thorium-228

C. Any

C. 400 millicuries total

C. Same as Item 9.B.

D. Germanium-68

D. Any

D. 5 curies total

D. Same as Item 9.B.

E. Gallium-68

E. Any

E. 5 curies total

E. Same as Item 9.B.



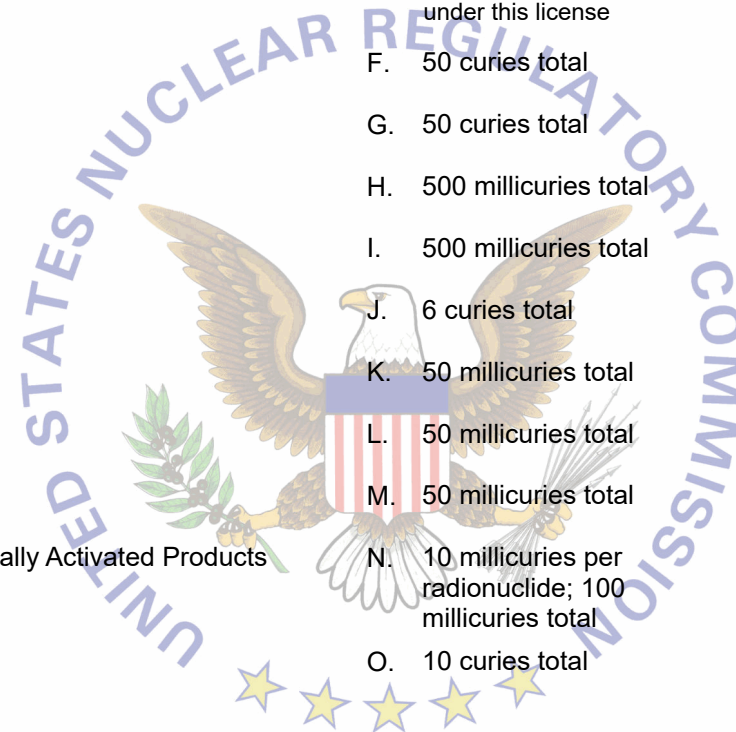
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6. Byproduct, source, and/or special nuclear material	7. Chemical and/or physical form	8. Maximum amount that licensee may possess at any one time under this license	9. Authorized use
F. Lutetium-177	F. Any	F. 50 curies total	F. Same as Item 9.A.
G. Lutetium-177m	G. Any	G. 50 curies total	G. Same as Item 9.A.
H. Barium-133	H. Any	H. 500 millicuries total	H. Same as Item 9.A.
I. Cesium-137	I. Any	I. 500 millicuries total	I. Same as Item 9.A.
J. Cobalt-57	J. Any	J. 6 curies total	J. Same as Item 9.A.
K. Cobalt-60	K. Any	K. 50 millicuries total	K. Same as Item 9.A.
L. Europium-152	L. Any	L. 50 millicuries total	L. Same as Item 9.A.
M. Sodium-22	M. Any	M. 50 millicuries total	M. Same as Item 9.A.
N. Any byproduct material with half-life less than or equal to 120 days	N. Incidentally Activated Products	N. 10 millicuries per radionuclide; 100 millicuries total	N. For receipt, storage, and processing of accelerator targets.
O. Radium-226	O. Any	O. 10 curies total	O. For receipt, storage, and distribution to persons authorized to receive the licensed material in accordance with the terms and conditions of a specific license issued by the U.S. Nuclear Regulatory Commission or an Agreement State.
P. Uranium- depleted in Uranium-235	P. Metal	P. 100 kilograms	P. For shielding of generators and shipping containers.



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CONDITIONS

10. Licensed material shall be used or stored at the licensee's facilities located at 1201 N Flyer Rd., Peru, Indiana, 46970.
11. The Radiation Safety Officer (RSO) for this license is John A. Zehner, R.Ph.
12. Licensed material shall only be used by, or under the supervision of:
- | <u>Authorized Users</u> | <u>Material and Use</u> |
|--------------------------|-------------------------|
| Keith Allberg | All |
| Jonathan Bolen, B.S. | All |
| Pulak Chakraborty, Ph.D. | All |
| Craig Hill, Ph.D. | All |
| Vernal Richards, Ph.D. | All |
| Christopher Ritter, B.S. | All |
| David Trump, Ph.D. | All |
| John A. Zehner, R.Ph. | All |
13. This license does not authorize commercial distribution of licensed material pursuant to 10 CFR 32.72; to persons generally licensed pursuant to 10 CFR Part 31 or equivalent regulations of any Agreement State; or to persons exempt from licensing pursuant to 10 CFR 30.14 through 10 CFR 30.21 inclusive, or equivalent regulations of any Agreement State.
14. Except for maintaining labeling as required by 10 CFR Part 20, or Part 71, the licensee shall obtain authorization from the U.S. Nuclear Regulatory Commission 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 certificate of registration issued either by the U.S. Nuclear Regulatory Commission pursuant to 10 CFR 32.210 or by an Agreement State.

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15. The licensee shall not acquire licensed material in a sealed source or device unless the source or device has been registered with the U.S. Nuclear Regulatory Commission pursuant to 10 CFR 32.210 or equivalent regulations of an Agreement State.
16. A. Sealed sources and detector cells 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. Notwithstanding Paragraph A of this Condition, sealed sources designed to primarily emit alpha particles shall be tested for leakage and/or contamination at intervals not to exceed 3 months.
- C. Each sealed source fabricated by the licensee shall be inspected and tested for construction defects, leakage, and contamination prior to any use or transfer as a sealed source.
- D. 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.
- E. 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.
- F. 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.

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- G. 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.
- H. 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.
- I. Records of leak test results shall be kept in units of becquerels (microcuries) and shall be maintained for 3 years.
17. 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.
18. The licensee shall not use the licensed material in or on humans.
19. The licensee shall not use licensed material in field applications where activity is released except as provided otherwise by specific condition of this license.
20. In addition to the possession limits in Item 8, the licensee shall further restrict the possession of licensed material in the form of unsealed material and foil or plated sources to quantities below the limits specified in 10 CFR 30.72, which require consideration of the need for an emergency plan for responding to a release of licensed material.
21. 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 in 10 CFR 30.35 for which decommissioning financial assurance is required.

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22. The licensee is authorized to retrieve, receive, and dispose of radioactive waste from its customers, limited to licensee's manufactured generators and sealed sources.
23. 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.

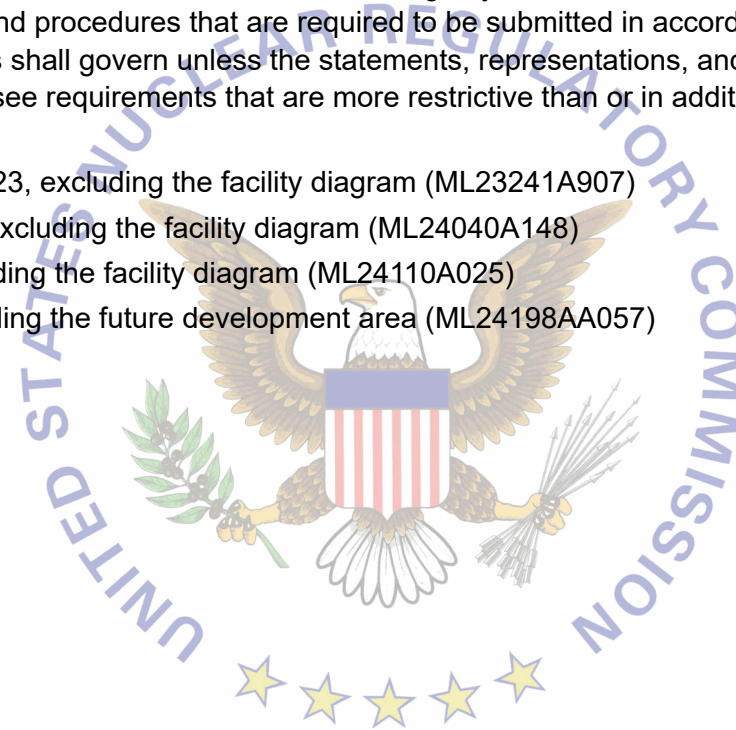
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24. Except as specifically provided otherwise in this license, the licensee shall conduct its program in accordance with the statements, representations, and procedures contained in the documents, including any enclosures, listed below. This license condition applies only to those statements, representations, and 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 impose on the licensee requirements that are more restrictive than or in addition to the regulations.
- A. Application dated August 21, 2023, excluding the facility diagram (ML23241A907)
 - B. Letter dated February 8, 2024, excluding the facility diagram (ML24040A148)
 - C. Letter dated April 6, 2024, excluding the facility diagram (ML24110A025)
 - D. Letter dated July 1, 2024, excluding the future development area (ML24198AA057)



FOR THE U.S. NUCLEAR REGULATORY COMMISSION

Date: January 28, 2025By: _____
Magdalena R. Gryglak
Region 3