PharmaLogic
1513 Research Park Dr. Columbia MO 65211
Phone 573-882-0245 • www.radiopharmacy.com

July 24, 2026

Nuclear Materials Licensing Section
U. S. Nuclear Regulatory Commission
Region III
2443 Warrenville Road, Suite 210
Lisle, Illinois 60532-4352

Subject: Adding Authorized Nuclear Pharmacist to RAM # 24-32762-01MD and RAM # 24-32762-02

To Whom It May Concern:

Please amend Radioactive Materials License # 24-32762-01MD and # 24-32762-02 to include the following ANPs:

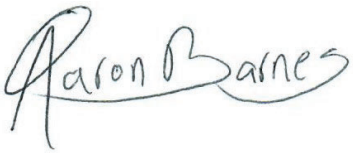
Name	MO Pharmacist License Number	RAM License Authority and RAM License number
Donald John Appelhans	2026015830	Williston Vermont #44-30124-01MD
William Boerger	2009007035	Williston Vermont #44-30124-01MD
Bynum Kimmons	2016025455	Williston Vermont #44-30124-01MD
Steve Morrow	2025028110	Williston Vermont #44-30124-01MD
Zack Scott	2026019078	Austin Texas #L07199

Please amend Radioactive Materials License # 24-32762-02 to include the following ANPs:

Name	MO Pharmacist License Number	RAM License Authority and RAM License number
GT Dolan	2023005616	Columbia Missouri NRC# 24-32762-01MD
Dave Osterberg	2017005788	Columbia Missouri NRC# 24-32762-01MD

Please contact me at (517) 887-3131 if you have any questions, require hard copies to be sent with original signatures, or need any other further documentation. Your attention to this matter is greatly appreciated.

Sincerely,



Aaron Barnes, Pharm.D.
Associate Corporate Radiation Safety Officer – Pharmalogic
Office: 517-887-3131
Cell: 517-455-9577
abarnes@radiopharmacy.com

MISSOURI DIVISION OF
PROFESSIONAL REGISTRATION

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Licensee Details

License

LICENSEE NAME
Donald John Appelhans II

PROFESSION NAME
Pharmacist

LICENSE NUMBER
2026015830

EXPIRATION DATE
10/31/2026

ORIGINAL ISSUE DATE
4/10/2026

CURRENT DISCIPLINE STATUS
None

CLASSIFICATION
-

PRACTITIONER DBA NAME
-

PREVIOUS DISCIPLINARY ACTIONS
No

Address

CITY
East fairfield

STATE
Vermont

POSTALCODE
05448

COUNTY
Franklin

Board Details

BOARD NAME
Missouri Board of Pharmacy

ADDRESS
3605 Missouri Boulevard P.O. Box 625

CITY
Jefferson City

STATE
MO

ZIP CODE
65102-0625

PHONE
(573) 751-0091

TTY
(800) 735-2966

VOICE RELAY
(800) 735-2466

WEBSITE
pr.mo.gov/pharmacists

EMAIL
missouribop@pr.mo.gov

MISSOURI DIVISION OF
PROFESSIONAL REGISTRATION

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Licensee Details

License

LICENSEE NAME
William A Boerger

PROFESSION NAME
Pharmacist

LICENSE NUMBER
2009007035

EXPIRATION DATE
10/31/2026

ORIGINAL ISSUE DATE
3/19/2009

CURRENT DISCIPLINE STATUS
None

CLASSIFICATION
-

PRACTITIONER DBA NAME
-

PREVIOUS DISCIPLINARY ACTIONS
No

Address

CITY
Hernando

STATE
Mississippi

POSTALCODE
38632

COUNTY
Unknown/Out of State

Board Details

BOARD NAME
Missouri Board of Pharmacy

ADDRESS
3605 Missouri Boulevard P.O. Box 625

CITY
Jefferson City

STATE
MO

ZIP CODE
65102-0625

PHONE
(573) 751-0091

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missouribop@pr.mo.gov

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PROFESSIONAL REGISTRATION

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Licensee Details

License

LICENSEE NAME	PROFESSION NAME	LICENSE NUMBER	EXPIRATION DATE
G.T. Dolan	Pharmacist	2023005616	10/31/2026

ORIGINAL ISSUE DATE	CURRENT DISCIPLINE STATUS	CLASSIFICATION	PRACTITIONER DBA NAME
2/10/2023	None	-	-

PREVIOUS DISCIPLINARY ACTIONS
No

Address

CITY	STATE	POSTALCODE	COUNTY
Vinton	Virginia	24179	Unknown/Out of State

Board Details

BOARD NAME	ADDRESS	CITY	STATE
Missouri Board of Pharmacy	3605 Missouri Boulevard P.O. Box 625	Jefferson City	MO

ZIP CODE	PHONE	TTY	VOICE RELAY
65102-0625	(573) 751-0091	(800) 735-2966	(800) 735-2466

WEBSITE	EMAIL
pr.mo.gov/pharmacists	missouribop@pr.mo.gov

MISSOURI DIVISION OF
PROFESSIONAL REGISTRATION

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Licensee Details

License

LICENSEE NAME
Bynum L Kimmons

PROFESSION NAME
Pharmacist

LICENSE NUMBER
2016025455

EXPIRATION DATE
10/31/2026

ORIGINAL ISSUE DATE
7/15/2016

CURRENT DISCIPLINE STATUS
None

CLASSIFICATION
-

PRACTITIONER DBA NAME
-

PREVIOUS DISCIPLINARY ACTIONS
No

Address

CITY
Buford

STATE
Georgia

POSTALCODE
30519

COUNTY
Unknown/Out of State

Board Details

BOARD NAME
Missouri Board of Pharmacy

ADDRESS
3605 Missouri Boulevard P.O. Box 625

CITY
Jefferson City

STATE
MO

ZIP CODE
65102-0625

PHONE
(573) 751-0091

TTY
(800) 735-2966

VOICE RELAY
(800) 735-2466

WEBSITE
pr.mo.gov/pharmacists

EMAIL
missouribop@pr.mo.gov

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PROFESSIONAL REGISTRATION

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Licensee Details

License

LICENSEE NAME	PROFESSION NAME	LICENSE NUMBER	EXPIRATION DATE
Stephen Richard Morrow	Pharmacist	2025028110	10/31/2026

ORIGINAL ISSUE DATE	CURRENT DISCIPLINE STATUS	CLASSIFICATION	PRACTITIONER DBA NAME
7/9/2025	None	-	-

PREVIOUS DISCIPLINARY ACTIONS
No

Address

CITY	STATE	POSTALCODE	COUNTY
Richmond	Virginia	23226	VA

Board Details

BOARD NAME	ADDRESS	CITY	STATE
Missouri Board of Pharmacy	3605 Missouri Boulevard P.O. Box 625	Jefferson City	MO

ZIP CODE	PHONE	TTY	VOICE RELAY
65102-0625	(573) 751-0091	(800) 735-2966	(800) 735-2466

WEBSITE	EMAIL
pr.mo.gov/pharmacists	missouribop@pr.mo.gov

MISSOURI DIVISION OF
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Licensee Details

License

LICENSEE NAME
David Michael Osterberg

PROFESSION NAME
Pharmacist

LICENSE NUMBER
2017005788

EXPIRATION DATE
10/31/2026

ORIGINAL ISSUE DATE
2/24/2017

CURRENT DISCIPLINE STATUS
None

CLASSIFICATION
-

PRACTITIONER DBA NAME
-

PREVIOUS DISCIPLINARY ACTIONS
No

Address

CITY
Bettendorf

STATE
Iowa

POSTALCODE
52722

COUNTY
Unknown/Out of State

Board Details

BOARD NAME
Missouri Board of Pharmacy

ADDRESS
3605 Missouri Boulevard P.O. Box 625

CITY
Jefferson City

STATE
MO

ZIP CODE
65102-0625

PHONE
(573) 751-0091

TTY
(800) 735-2966

VOICE RELAY
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WEBSITE
pr.mo.gov/pharmacists

EMAIL
missouribop@pr.mo.gov

MISSOURI DIVISION OF
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Licensee Details

License

LICENSEE NAME
Gary Zackery Scott

PROFESSION NAME
Pharmacist

LICENSE NUMBER
2026019078

EXPIRATION DATE
10/31/2026

ORIGINAL ISSUE DATE
5/5/2026

CURRENT DISCIPLINE STATUS
None

CLASSIFICATION
-

PRACTITIONER DBA NAME
-

PREVIOUS DISCIPLINARY ACTIONS
No

Address

CITY
Kyle

STATE
Texas

POSTALCODE
78640

COUNTY
Hays

Board Details

BOARD NAME
Missouri Board of Pharmacy

ADDRESS
3605 Missouri Boulevard P.O. Box 625

CITY
Jefferson City

STATE
MO

ZIP CODE
65102-0625

PHONE
(573) 751-0091

TTY
(800) 735-2966

VOICE RELAY
(800) 735-2466

WEBSITE
pr.mo.gov/pharmacists

EMAIL
missouribop@pr.mo.gov

Vermont Department of Health

Amendment No. 49

MATERIALS LICENSE

In accordance with the Agreement dated 30 September 2019 between the State of Vermont and the U.S. Nuclear Regulatory Commission and 18 V.S.A. Chapter 32, 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 and to deliver or transfer such materials to persons authorized to receive it in accordance with the applicable sections of the Vermont Radiological Health Rule. This license is subject to all applicable rules, regulations, and orders of the Vermont Department of Health now or hereafter in effect and to any conditions specified below.

Licensee	In accordance with application dated August 29, 2025,	4. Expiration Date: November 30, 2034
1. PharmaLogic Ltd.		5. Docket No.: 030-33449 Reference No.:
2. 1191 S. Brownell Road, Suite 40 Williston, VT 05495	3. License number: 44-30124-01MD is amended in its entirety to read as follows:	

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
A. Any byproduct material between Atomic Numbers 3 and 83 with Exceptions	A. Any Except Sealed Sources	A. 200 millicuries per source and 2 curies total	A. For preparation and distribution of radioactive drugs and radiochemicals for medical use in accordance with 10 CFR 32.72 and for non-medical use to authorized recipients.
B. Fluorine-18	B. Any	B. 1 curie total	B. For preparation and distribution of radioactive drugs and radiochemicals for medical use in accordance with 10 CFR 32.72 and for non-medical use to authorized recipients.
C. Gallium-67	C. Any	C. 500 millicuries total	C. For preparation and distribution of radioactive drugs and radiochemicals for medical use in accordance with 10 CFR 32.72 and for non-medical use to authorized recipients.

MATERIALS LICENSE SUPPLEMENTARY SHEET

License Number
44-30124-01MD

Amendment No. 49

Docket or Reference Number
030-33449

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
D. Strontium-89	D. Any	D. 40 millicuries total	D. For preparation and distribution of radioactive drugs and radiochemicals for medical use in accordance with 10 CFR 32.72 and for non-medical use to authorized recipients.
E. Yttrium-90	E. Any	E. 500 millicuries total	E. For preparation and distribution of radioactive drugs and radiochemicals for medical use in accordance with 10 CFR 32.72 and for non-medical use to authorized recipients.
F. Molybdenum-99	F. Any	F. 100 curies total	F. For preparation and distribution of radioactive drugs and radiochemicals for medical use in accordance with 10 CFR 32.72 and for non-medical use to authorized recipients. For redistribution of used and unused Molybdenum-99/Technetium-99m generators to authorized recipients in accordance with 10 CFR 32.72.
G. Technetium-99m	G. Any	G. 100 curies total	G. For preparation and distribution of radioactive drugs and radiochemicals for medical use in accordance with 10 CFR 32.72 and for non-medical use to authorized recipients. For redistribution of used and unused Molybdenum-99/Technetium-99m generators to authorized recipients in accordance with 10 CFR 32.72.

MATERIALS LICENSE SUPPLEMENTARY SHEET

License Number
44-30124-01MD

Amendment No. 49

Docket or Reference Number
030-33449

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
H. Indium-111	H. Any	H. 300 millicuries total	H. For preparation and distribution of radioactive drugs and radiochemicals for medical use in accordance with 10 CFR 32.72 and for non-medical use to authorized recipients.
I. Iodine-123	I. Any	I. 150 millicuries total	I. For preparation and distribution of radioactive drugs and radiochemicals for medical use in accordance with 10 CFR 32.72 and for non-medical use to authorized recipients.
J. Iodine-131	J. Any	J. 2.5 curies total	J. For preparation and distribution of radioactive drugs, including compounding of iodine-131, and radiochemicals for medical use in accordance with 10 CFR 32.72 and for non-medical use to authorized recipients.
K. Xenon-133	K. Any	K. 1.5 curies total	K. For preparation and distribution of radioactive drugs and radiochemicals for medical use in accordance with 10 CFR 32.72 and for non-medical use to authorized recipients.
L. Samarium-153	L. Any	L. 750 millicuries total	L. For preparation and distribution of radioactive drugs and radiochemicals for medical use in accordance with 10 CFR 32.72 and for non-medical use to authorized recipients.
M. Thallium-201	M. Any	M. 1 curie total	M. For preparation and distribution of radioactive drugs and radiochemicals for medical use in accordance with 10 CFR 32.72 and for non-medical use to authorized recipients.

MATERIALS LICENSE SUPPLEMENTARY SHEET

License Number
44-30124-01MD

Amendment No. 49

Docket or Reference Number
030-33449

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
N. Any byproduct material permitted by 10 CFR 31.11	N. Prepackaged Kits	N. 50 millicuries total	N. For redistribution to specific licensees or to general licensees in accordance with 10 CFR 31.11, provided the packaging and labeling remain unchanged.
O. Any byproduct material permitted by 10 CFR 35.65	O. Sealed Sources (Eckert & Ziegler Isotope Products dba Isotope Products Laboratories, Model MED3503, GF Type R Series, RV-XXX Series, and EGLVM Series; International Isotopes Idaho, Inc. , Model BM06-37, BM06E Series, and BM06S Series; International Isotopes, Inc. , Model BM03-57L and BM03-57A; North American Scientific, Inc., Model MED3550, MED3400, and MED3402; Squibb Medical Imaging formerly EI Dupont, Model NES-356)	O. 500 millicuries total	O. For use in calibration and checking of the licensee's instruments. For redistribution of sealed sources initially distributed by a manufacturer licensed in accordance to 10 CFR 32.74 to authorized recipients for medical and non-medical use.

MATERIALS LICENSE SUPPLEMENTARY SHEET

License Number: 44-30124-01MD
Amendment No. 49
Docket or Reference Number: 030-33449

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
P. Any byproduct material permitted in 10 CFR 35.400	P. Sealed Sources (Bard Brachytherapy, Model STM 1251; IsoAid, LLC, Model IAI-125A; North American Scientific, Inc., Model MED 3631 or MED 3633; Theragenics, Model Theraseed 200)	P. 2 curies total	P. For redistribution of sealed sources initially distributed by a manufacturer licensed in accordance to 10 CFR 32.74 to authorized recipients for medical use. For redistribution of sealed sources that have been registered either with NRC under 10 CFR 32.210 or with an Agreement State and have been distributed in accordance with an NRC or Agreement State specific license authorizing distribution to persons specifically authorized by an NRC or Agreement State license to receive, possess and use the authorized device.
Q. Any byproduct material between atomic numbers 2 & 83 with exceptions	Q. Analytical Samples	Q. 50 millicuries total	Q. For possession incident to the performance of tests for leakage on customers sealed sources.
R. Uranium- depleted in Uranium-235	R. Metal	R. 400 kilograms total	R. For shielding of molybdenum-99/technetium-99m generators .
S. Germanium-68	S. Any	S. 100 millicuries total	S. For use of the Eckert and Ziegler GalliaPharm™ and IRE Galli-Eo generators to prepare Ga-68 radiopharmaceuticals for imaging and localization studies.

MATERIALS LICENSE SUPPLEMENTARY SHEET

License Number: 44-30124-01MD
Amendment No. 49
Docket or Reference Number: 030-33449

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
T. Gallium-68	T. Any	T. 100 millicuries total	T. For preparation and distribution of radioactive drugs in accordance with 10 CFR 32.72 and radiochemicals for non-medical use to authorized recipients.

CONDITIONS

10. Licensed material may be used or stored at the licensee's facilities located at 1191 S. Brownell Road, Suite 40, Williston, Vermont.

11. Licensed material shall only be used by, or under the supervision of:

A. A pharmacist working or designated as an authorized nuclear pharmacist in accordance with 10 CFR 32.72(b)(2)(i) or (4).

B. Authorized Nuclear Pharmacists:

Authorized Nuclear Pharmacist	Material and Use
Donald J Appelhans	All
William Boerger, R.Ph.	All
GT James Dolan, PharmD	All
Reid Gadziala, Pharm.D.	ALL
Seung Han, Pharm. D.	All
Bynum L. Kimmons, R.Ph.	ALL
Lawrence Lopez, PharmD	All
Erin Mehr, PharmD	All
Steven Morrow, Pharm. D.	All

MATERIALS LICENSE SUPPLEMENTARY SHEET	License Number 44-30124-01MD	Docket or Reference Number 030-33449
	Amendment No. 49	

Authorized Nuclear Pharmacist	Material and Use
David Osterberg, RPh	All
Glen Palmer, R.Ph.	ALL

C. Authorized Users working under the supervision of an authorized nuclear pharmacist:

Authorized User (M.D.,D.O.,etc.)	Material and Use
No Authorized User (M.D.,D.O.,etc.) Specified	

12. The Radiation Safety Officer (RSO) for this license is Seung Hyun Han

A. The licensee shall inform the Department of Health Radioactive Materials Program of changes in RSO within 30 days of the change in accordance with 10 CFR 35.14(b).

13. 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) for establishing decommissioning financial assurance.

14. This license does not authorize distribution to persons exempt from licensing.

15. 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.

MATERIALS LICENSE SUPPLEMENTARY SHEET	License Number 44-30124-01MD	Docket or Reference Number 030-33449
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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 written report shall be filed with the Vermont Department of Health, and the source shall be removed immediately from service and decontaminated, repaired, or disposed of in accordance with Vermont Department of Health 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.

16. Sealed sources or detector cells containing licensed material shall not be opened or sources removed from source holders by the licensee, except as specifically authorized.

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.

MATERIALS LICENSE SUPPLEMENTARY SHEET	License Number 44-30124-01MD	Docket or Reference Number 030-33449
	Amendment No. 49	

18. 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.

19. 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.

20. Notwithstanding the requirements of 10 CFR 30.35(a)(1), the licensee is exempt from the requirement to have a decommissioning funding plan needed for the possession and use of Ge-68/Ga-68 medical use generators (Eckert and Ziegler GalliaPharm™ and IRE Galli-Eo generators), based on the commitments between the licensee and manufacturer (Eckert and Ziegler for the GalliaPharm™) and between the licensee and distributor (Cardinal Health for the Galli-Eo). The licensee shall return the generators to the manufacturer/distributor in accordance with the generator return agreements described in the letters dated July 10, 2018 and April 25, 2019.

MATERIALS LICENSE SUPPLEMENTARY SHEET	License Number 44-30124-01MD	Docket or Reference Number 030-33449
	Amendment No. 49	

21. 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 Vermont Department of Health's regulations shall govern unless the statements, representations, and procedures in the licensee's application and correspondence are more restrictive than the regulations.
    A. Renewal application dated 10/15/2024.
    B. Amendment letter dated 8/29/2025 to add Erin Mehr as ANP.

FOR THE VERMONT DEPARTMENT OF HEALTH

Date: September 3, 2025

By: _____
William E Irwin Sc.D, CHP.
Vermont Radiation Control Program Director

TEXAS Health and Human Services | Texas Department of State Health Services

RADIOACTIVE MATERIAL LICENSE

Pursuant to the Texas Radiation Control Act and Texas Department of State Health Services (Department) regulations on radiation, 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 radioactive material listed below; and to use such radioactive material for the purpose(s) and at the place(s) designated below. This license is subject to all applicable rules, regulations and orders of the Department now or hereafter in effect and to any conditions specified below.

LICENSEE			
1. Name	PHARMALOGIC AUSTIN LLC ATTN MISEAL A VEGA	3. License Number	L07199
2. Address	10600 NORTH LAMAR BOULEVARD AUSTIN TX 78753	4. Expiration Date	October 31, 2033
		Amendment Number	08

This license is amended in accordance with correspondence received June 19, 2026.

5. Radioisotope	6. Form of Material	7. Maximum Activity	8. Authorized Use
A. Any radioactive material with atomic number 1 through 83 with a half-life less than 120 days	A. Activated solids	A. 5 curies per radionuclide and 10 curies total	A. Possession of activated materials incidental to the accelerator operation.
B. Any radioactive material with atomic number 1 through 83 with a half-life greater then than 120 days	B. Activated solids	B. 500 millicuries	B. Possession of activated materials incidental to the accelerator operation.
C. Carbon-11	C. Any, except sealed source	C. 3.5 curies	C. Manufacture and distribution in accordance with 25 TAC §289.252(u).

RADIOACTIVE MATERIAL LICENSE

LICENSE NUMBER	AMENDMENT NUMBER
L07199	08

5. Radioisotope	6. Form of Material	7. Maximum Activity	8. Authorized Use
D. Cesium-137	D. Sealed source (International Isotopes Model BM06E-37)	D. 250 microcuries per radionuclide and 500 microcuries total	D. Calibration and reference. Redistribution of sealed sources initially distributed by a manufacturer licensed in accordance with 25 TAC §289.252(o).
E. Cesium-137	E. Sealed source (International Isotopes Model BM06-37)	E. 1 millicurie	E. Calibration and reference. Redistribution of sealed sources initially distributed by a manufacturer licensed in accordance with 25 TAC §289.252(o).
F. Cobalt-57	F. Sealed source (International Isotopes Model BM06E-57)	F. 5 millicuries per radionuclide and 10 millicuries total	F. Calibration and Reference. Redistribution of sealed sources initially distributed by a manufacturer licensed in accordance with 25 TAC §289.252(o).
G. Cobalt-57	G. Sealed source (International Isotopes Model BM06-57)	G. 1 millicurie	G. Calibration and reference. Redistribution of sealed sources initially distributed by a manufacturer licensed in accordance with 25 TAC §289.252(o).
H. Copper-64	H. Liquid	**H. 5 curies**	H. Manufacture and distribution in accordance with 25 TAC §289.252(u).
I. Fluorine-18	I. Any, except sealed source	I. 20 curies	I. Manufacture and distribution in accordance with 25 TAC §289.252(u).
J. Gallium-68	J. Any, except sealed source	J. 400 millicuries	J. Preparation and distribution of radioactive drugs in accordance with 25 TAC §289.252(r) and radiochemicals for non-medical use.
K. Germanium-68	K. Sealed source (International Isotopes Model BM06-68)	K. 1 millicurie	K. Calibration and reference. Redistribution of sealed sources initially distributed by a manufacturer licensed in accordance with 25 TAC §289.252(o).

RADIOACTIVE MATERIAL LICENSE

LICENSE NUMBER	AMENDMENT NUMBER
L07199	08

5. Radioisotope	6. Form of Material	7. Maximum Activity	8. Authorized Use
L. Germanium-68	L. Generator	L. 400 millicuries	L. Preparation of radioactive drugs permitted by 25 TAC §289.256(q) using the ITM GeGant® generator, Eckert & Ziegler GalliaPharm™, ITG Ge-68/Ga-68 or IRE Galli-Eo®.
M. Iodine-124	M. Any, except sealed source	M. 5 curies	M. Manufacture and distribution in accordance with 25 TAC §289.252(u).
N. Iodine-131	N. Any, except sealed source	N. 5 curies	N. Manufacture and distribution in accordance with 25 TAC §289.252(u).
O. Lead-203	O. Liquid	O. 100 millicuries	O. Manufacture and distribution in accordance with 25 TAC §289.252(u).
P. Lead-212	P. Liquid	P. 100 millicuries	P. Manufacture and distribution in accordance with 25 TAC §289.252(u).
Q. Lutetium-177	Q. Any, except sealed source	Q. 25 curies	Q. Manufacture and distribution in accordance with 25 TAC §289.252(u).
R. Nitrogen-13	R. Any, except sealed source	R. 2 curies	R. Manufacture and distribution in accordance with 25 TAC §289.252(u).
S. Oxygen-15	S. Any, except sealed source	S. 1.2 curies	S. Manufacture and distribution in accordance with 25 TAC §289.252(u).
T. Sodium-22	T. Sealed source (Eckert & Ziegler Model GF-022-1836)	T. 1 millicurie	T. Calibration and reference. Redistribution of sealed sources initially distributed by a manufacturer licensed in accordance with 25 TAC §289.252(o).
U. Zirconium-89	U. Liquid	U. 2 curies	U. Manufacture and distribution in accordance with 25 TAC §289.252(u).

RADIOACTIVE MATERIAL LICENSE

LICENSE NUMBER	AMENDMENT NUMBER
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9. Radioactive material shall only be stored and used at:

Site Number	Location
000	Austin – 10600 North Lamar Boulevard

10. This license is issued in accordance with Title 25 Texas Administrative Code §289.252(u), "Specific Licenses for Other Manufacture and Commercial Distribution of Radioactive Material."

11. The individual designated to perform the functions of Radiation Safety Officer (RSO) for activities covered by this license is Miseal A. Vega.

12. Licensed material shall be used by, or under the supervision of:

    A. Authorized Nuclear Pharmacist

    Armstrong, Ella Re'gail, Pharm. D.

    Boerger, William Allen, R.Ph.

    Dolan, G. T. James, Pharm D.

    Duncan, Brett Alan, Pharm D.

    Garza, Lucio, R.Ph.

    Osterberg, David Michael, R.Ph.

    Scott, Gary Zackery, R.Ph.

    Vasquez, Crystal D., Pharm. D.

    B. Other individuals who have successfully completed the training described in the application dated December 8, 2022.

13. The licensee shall not open sealed sources containing radioactive material or remove sources from source holders.

RADIOACTIVE MATERIAL LICENSE

LICENSE NUMBER	AMENDMENT NUMBER
L07199	08

14. A copy of the current operating and emergency procedures shall be kept at the accelerator control panel. The accelerator shall be secured to prevent unauthorized use when not in operation.

15. 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 and dispose of it as non-radioactive in accordance with procedures described in application dated December 8, 2022.

16. The licensee is authorized to distribute radioactive materials to licensed recipients for non-medical uses.

17. The licensee shall maintain the financial assurance letter of credit for $1,095,242.00, current and in good standing.

18. Except as specifically provided otherwise by this license, the licensee shall possess and use the radioactive material authorized by this license in accordance with statements, representations, and procedures contained in the following:

    Application received December 8, 2022,
    Letter dated May 10, 2024,
    Electronic mails dated January 31, 2023, February 9, 2023, February 13, 2023, March 6, 2023, and April 3, 2023, July 9, 2024, September 3, 2024, and
    Decommissioning cost estimate dated January 1, 2023.

    Title 25 TAC §289 shall prevail over statements contained in the above documents unless such statements are more restrictive than the regulations.

PKK:pkk

FOR THE DEPARTMENT OF STATE HEALTH SERVICES

Date June 23, 2026

Stefanie Blum, Health Physicist II
Medical and Academic Licensing Program

From:	Aaron Barnes
To:	R3-DRSSMail Resource
Cc:	David Osterberg; Frank Plastini; Andrew Halloran; GT Dolan
Subject:	[External_Sender] PharmaLogic Ashland and Columbia MO Amendment request
Date:	Friday, July 24, 2026 10:12:37 AM
Attachments:	image.png 2026.07.23 ADD ANPs Columbia MO.pdf 2026.07.23 Amendment Add ANPs Ashland MO.pdf

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Hello Region 3 Regulators,

Attached are 2 amendment requests for our Missouri facilities in Ashland and Columbia. We would like to add a number of ANPs to the license. They are all coverage pharmacists that work throughout the PharmaLogic System.

Please let me know if there are any questions. Thank you,

Aaron Barnes Pharm.D

Associate Corporate Radiation Safety Officer | PharmaLogic Holdings Corp.

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website www.pharmalogicgroup.com
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