U.S. NUCLEAR REGULATORY COMMISSION

Amendment No. 52

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	In accordance with letter dated July 28, 2017	4. Expiration Date: September 30, 2023
1. Department of the Army Carl R. Darnall Army Medical Center 2. 36065 Santa Fe Avenue Fort Hood, TX 76544-4752	3. License number: 42-19113-01 is amended in its entirety to read as follows:	5. Docket No.: 030-16084 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	9. Authorized use
A. Any byproduct material permitted by 10 CFR 35.100	A. Any	A. As Needed	A. For use in uptake, dilution and excretion studies permitted by 10 CFR 35.100.
B. Any byproduct material permitted by 10 CFR 35.200	B. Any	B. As Needed	B. For use in imaging and localization studies permitted by 10 CFR 35.200.
C. Any byproduct material permitted by 10 CFR 35.300	C. Any	C. 10 curies total	C. For any use permitted by 10 CFR 35.300.
D. Any byproduct material permitted by 10 CFR 31.11	D. Prepackaged Kits	D. 10 curies total	D. For use in in-vitro studies.
E. Gadolinium-153	E. Sealed Sources (Isotope Products Laboratories, Model 301B)	E. 646 millicuries per source holder and total possession of 1,938 millicuries	E. For use in an SMV International Model PS 96 transmission attenuation correction source holder.

MATERIALS LICENSE SUPPLEMENTARY SHEET	License Number 42-19113-01	Docket or Reference Number 030-16084
	Amendment No. 52	

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. Gadolinium-153	F. Sealed Sources (Eckert & Ziegler Isotope Products dba Isotope Products Laboratories, Model HEGL-0133)	F. 1 millicurie per source and 1 millicurie total	F. For use with a medical or research or positron emission tomography (PET): Eckert & Ziegler Isotope Products dba Isotope Products Laboratories Model HEGL-XXXX Series Line source.
G. Gadolinium-153	G. Sealed Sources (Isotope Products Laboratories, Model A3409, or A3432)	G. 10 millicuries per line source and 120 millicuries total	G. For use in a Siemens Medical Solutions USA, Inc. Model 07837722, Auto QC Device.
H. Cobalt-57	H. Sealed Sources (Isotope Products Laboratories, Model PHI-057; QSA Global, Inc., Model CTC.P2)	H. 50 microcuries per point source and 600 microcuries total	H. For use in a Siemens Medical Solutions USA, Inc. Model 07837722, Auto QC Device.

CONDITIONS

10. Licensed material may be used or stored at the licensee's facilities located at:
    A. Carl R. Darnall Army Medical Center, 36065 Santa Fe Avenue, Fort Hood, Texas, and
    B. RCRDAMC Low Level Waste Decay-in-Storage, 36065 Sante Fe Avenue, Fort Hood, Texas.

11. The Radiation Safety Officer (RSO) for this license is CPT Suyog J. Chhetri, MS.

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

    A. Individuals permitted to work as authorized users, authorized nuclear pharmacists, and/or authorized medical physicists, in accordance with 10 CFR 35.13 and 10 CFR 35.14.

MATERIALS LICENSE SUPPLEMENTARY SHEET	License Number 42-19113-01	Docket or Reference Number 030-16084
	Amendment No. 52	

B. The following individuals are authorized users for the material and medical uses as indicated:

Authorized User(M.D.,D.O.,etc.)	Material and Use
Peter T. Lam, M.D.	35.100; 35.200; 35.300; Gd-153; 31.11

13. For sealed sources not associated with 10 CFR Part 35 use, the following conditions apply:

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. Not withstanding 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. 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.

D. 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.

E. 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.

MATERIALS LICENSE SUPPLEMENTARY SHEET	License Number 42-19113-01	Docket or Reference Number 030-16084
	Amendment No. 52	

F. 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.

G. Analysis of leak test samples and/or contamination shall be performed by persons specifically licensed by the U.S. Nuclear Regulatory Commission or an Agreement State to perform such services. The licensee is authorized to collect leak test samples but not perform the analysis.

H. 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. 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.

MATERIALS LICENSE SUPPLEMENTARY SHEET	License Number 42-19113-01	Docket or Reference Number 030-16084
	Amendment No. 52	

17. 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. Additionally, this license condition does not limit the licensee's ability to make changes to the radiation protection program as provided for in 10 CFR 35.26. 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 March 5, 2013 (ML13088A566)

B. Letter dated July 30, 2014 (ML14213A480)

C. Letters dated March 1, 2016 (ML16106A252)

D. Letter dated June 7, 2016 (ML16162A651)

FOR THE U.S. NUCLEAR REGULATORY COMMISSION

/RA/

Date: September 12, 2017

By: _____

Latischa M. Hanson
Region IV