NRC FORM 374

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U.S. NUCLEAR REGULATORY COMMISSION

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. Uniformed Services University of the Health Sciences			In accordance with the letter dated June 04, 2018,		4. Expiration Date: October 31, 2025		
2.	4301 Jones Bridge Road Bethesda, MD 20814-47				nber: 19-23344-01 is its entirety to read as		et No.: 030-20775 rence No.:
6.	Byproduct, source, and/or special nuclear material	7.	Chemical and/or physical fo	orm 8.	Maximum amount that licent may possess at any one tim under this license		Authorized use
Α.	Any byproduct material with Atomic Numbers 1 through 83	Α.	Any	A.	300 millicuries per radionuclide and 15 curie total	A.	For research and development as defined in 10 CFR 30.4, including animal studies and in-vitro studies; and teaching and training of students.
В.	Hydrogen-3	В.	Any	B.	15 curies total	В.	For research and development as defined in 10 CFR 30.4, including animal studies and in-vitro studies; and teaching and training of students.
C.	Carbon-14	C.	Any	C.	5 curies total	C.	For research and development as defined in 10 CFR 30.4, including animal studies and in-vitro studies; and teaching and training of students.
D.	Phosphorus-32	D.	Any	D.	2 curies total	D.	For research and development as defined in 10 CFR 30.4, including animal studies and in-vitro studies; and teaching and training of students.

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6.	Byproduct, source, and/or special nuclear material	7: Chemical and	l/or physical form		at any one time	9. Authorized use	
E.	Phosphorus-33	E. Any		E. 2 curies tota	l E	E. For research and development as defined in 10 CFR 30.4, including animal studies and in-vitro studies; and teaching and training of students.	
F.	Sulfur-35	F. Any		F. 2 curies tota	d Alberton F	For research and development as defined in 10 CFR 30.4, including animal studies and in-vitro studies; and teaching and training of students.	
G.	Technetium-99m	G. Any		G. 5 curies tota	l (G. For research and development as defined in 10 CFR 30.4, including animal studies and in-vitro studies; and teaching and training of students.	
H.	lodine-125	H. Any		H. 5 curies tota		H. For research and development as defined in 10 CFR 30.4, including animal studies and in-vitro studies; and teaching and training of students.	
	CONDITIONS						
10.	10. Licensed material may be used or stored at the licensee's facilities located at 4301 Jones Bridge Road, Bethesda, Maryland 20814.						
11.	11. Licensed material shall only be used by, or under the supervision of, individuals designated, in writing, by the licensee's Radiation Safety Committe. The licensee shall maintain records of individuals designated as users for 3 years after the individual's last use of licensed material.						
12.	The Radiation Safety (Officer (RSO) for th	is license is Brian Char	npine.			

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13. Th	he licensee shall not use the licensed ma	aterial in or on humans.	I			
	xperimental animals, or the products fror uman consumption.	m experimental animals, that have been	administered licensed material shall not be used for			
	he licensee shall not use licensed mater f this license.	ial in field applications where activity is i	released except as provided otherwise by specific condition			
16. A.	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.	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.		ore than 100 microcuries of beta- and/c	ontain only a radioactive gas; or the half-life of the isotope is or gamma-emitting material or not more than 10			
E.	or transferred to another person, and	have not been tested within the require	sed. However, when they are removed from storage for use d leak test interval, they shall be tested before use or without being tested for leakage and/or contamination.			

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	filed with the U.S. Nuclear Regulatory	ecting the presence of 185 becquerels (ce of 185 becquerels (0.005 microcurie / Commission in accordance with 10 CF aminated, repaired, or disposed of in ac	s) or more of removable conta R 30.50(c)(2), and the source	mination, a report shall be shall be removed			
	G. 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.						
	H. Records of leak test results shall be k	. Records of leak test results shall be kept in units of becquerels (microcuries) and shall be maintained for 3 years.					
17.	Sealed sources or detector cells containing licensee, except as specifically authorized		d, or foil sources removed fror	n detector cells by the			
18.	•	itide foil or scandium tritide foil shall on h prevents the foil temperature from ex mission pursuant to 10 CFR 32.210 or e	ceeding that specified in the c	ertificate of registration issued			
	B. When in use, detector cells containing	g a titanium tritide foil or scandium tritid	e foil shall be vented to the ou	tside.			
19.	The licensee shall conduct a physical inve to account for all sealed sources and/or d years from the date of each inventory, an date of the inventory.	levices received and possessed under	he license. Records of invento	pries shall be maintained for 3			
20.	The licensee is authorized to hold radioad disposal in ordinary trash provided:	ctive material with a physical half-life of	less than or equal to 120 days	s for decay-in-storage before			

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radiation labels shall be removed	interposed shielding to determine t	hat its radioactivity cannot be distingulated as a set of the set	ished from background. All	
•	yproduct material was placed in sto	n shall be retained for 3 years. The re prage, the radionuclides disposed, the sh waste container, and the name of t	survey instrument used, the	
	n dated July 20, 2015 and letter da	is authorized to make program chang ted August 26, 2015, which were prev ut prior Commission approval as long	iously approved by the U.S.	
A. The proposed revision is docume established procedures prior to in		ne licensee's Radiation Safety Comm	ittee in accordance with	
established procedures prior to in	nplementation; lance with regulatory requirements,	he licensee's Radiation Safety Comm will not change the license conditions		
established procedures prior to in B. The revised program is in accord	nplementation; lance with regulatory requirements, ifety Program;	will not change the license conditions		
established procedures prior to in B. The revised program is in accord effectiveness of the Radiation Sa	mplementation; lance with regulatory requirements, ifety Program; he revised procedures prior to impl	will not change the license conditions		

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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. 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 July 20, 2015 (ML15211A212)

B. Letter dated August 26, 2015 (ML15272A228)

Date: July 24, 2018

FOR THE U.S. NUCLEAR REGULATORY COMMISSION

By: Oan By Dennis Lawyer

Region 1