NRC FORM 374 U.S. NUCLEAR REGUL	ATORY COMMISSION Amendment No. 4						
MATERIALS LICENSE							
MATERIALS Pursuant to the Atomic Energy Act of 1954, as amended, the Energy Code of Federal Regulations, Chapter I, Parts 30, 31, 32, 33, 34 representations heretofore made by the licensee, a license is hereby transfer byproduct, source, and special nuclear material designated I designated below; to deliver or transfer such material to persons a applicable Part(s). This license shall be deemed to contain the conditi amended, and is subject to all applicable rules, regulations, and order and to any conditions specified below.	gy Reorganization Act of 1974 (Public Law 93-438), and Title 10, 34, 35, 36, 39, 40, and 70, and in reliance on statements and y issued authorizing the licensee to receive, acquire, possess, and below; to use such material for the purpose(s) and at the place(s) authorized to receive it in accordance with the regulations of the itions specified in Section 183 of the Atomic Energy Act of 1954, as						
Licensee	In accordance with the letter dated						
	July 10, 2012,						
1. Molecular Imaging, Inc.	3. License number 21-32816-01 is amended in its entirety to read as follows:						
2. 800 Technology Drive	4. Expiration date January 31, 2021						
Ann Arbor, MI 48108	5. Docket No. 030-38386						
Sec.	Reference No.						
6. Byproduct, source, and/or 7. Chemical and/or physical form special nuclear material	<ol> <li>Maximum amount that licensee may possess at any one time under this license</li> </ol>						
A. Fluorine-18 A. Solution	A. Not to exceed 120 millicuries						
B. Cobalt-57 B. Sealed sources (Eckel Model PHI-0119)	ert & Ziegler B. 2 sources not to exceed 5 millicuries each						
C. Germanium-68 C. Sealed sources (Siem CS-6-14)	millicuries total						
D. Cesium-137 D. Sealed source (Ecker Model RV-137-200U)	microcuries						
E Technetium-99m E Any F Indium-111 F Any	E. 50 millicuries F. 50 millicuries						
F. Indium-111 F. Any G. Iodine-123 G. Any	G. 50 millicuries						
H. Iodine-125 H. Any	H. 60 millicuries						
I. Gallium-67 I. Any (Bound)	I. 50 millicuries						
J. Thallium-201 J. Any (Bound)	J. 50 millicuries						
K. Copper-64 K. Any (Bound)	K. 50 millicuries						
L. Yttrium-86 L. Any (Bound)	L. 50 millicuries						
M. Cobalt-55 M. Any (Bound)	M. 50 millicuries						
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9. Authorized Use:							

- 9.
  - A. For research and development as defined in 10 CFR 30.4 in rodents.
  - B. through D. For instrument calibration.
  - E. through M. For research and development as defined in 10 CFR 30.4 in rodents.

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MATERIALS LICENSE SUPPLEMENTARY SHEET		License Number 21-32816-01							
		Docket or Reference Numb 030-38386	ber						
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			CONDITIONS	<u>}</u>					
	10. Licensed material shall be used only at the licensee's facilities located at 800 Technology Drive, Ann Arbor, Michigan.								Arbor,
11. Licensed materials shall only be used by, or under the supervision of Patrick McConville, Ph.D., and Deanne Lister, B.Sc.									
12. The Rad	diation Safety Office	r (RSO) for	this license is Carol	l Lentz.					
13. 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 NRC under 10 CFR 32.210 or by an Agreement State.									
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 NRC 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.									
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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.									
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r f F i	adioactive material becquerels) or more Regulatory Commiss	on the test s of removab sion in acco rvice and de	sample. If the test re le contamination, a rdance with 10 CFR	ence of 0.005 microcleveals the presence of report shall be filed v 30.50(c)(2), and the aired, or disposed of i	of 0.005 r with the L source s	nicro J.S. shall	Nuc be i	ie (1 lear remo	85 
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E. Tests for leakage and/or contamination shall be performed by persons specifically licensed by the Commission or an Agreement State to perform such services. In addition, the licensee is authorized to collect leak test samples but not perform the analysis: analysis of leak test samples must be performed by persons specifically licensed by the Commission or an Agreement State to perform such services.									
F. F	Records of leak test	results shall	be kept in units of	microcuries and shall	l be main	itain	ed fo	or 3	years.
14. Sealed sources containing licensed material shall not be opened.									
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 sources and/or devices received and possessed under the license.									

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		License Number 21-32816-01						
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	authorized to transport licensed mater ging and Transportation of Radioactive		he provisions of 10 CFR					
17. Licensed materi	al shall not be used in or on humans.							
	imals or the products from experimen I not be used for human consumption.		administered licensed					
the licensee is	material held for decay-in-storage othe authorized to hold radioactive materia r-in-storage before disposal in ordinary	al with a physical half-life of						
appropria determin	isposal as ordinary trash, the waste sh ate survey instrument set on its most s e that its radioactivity cannot be distin ved or obliterated.	sensitive scale and with no i	nterposed shielding to					
The reco in storag dose rate	of each such disposal permitted under rd must include the date of disposal, t e, the radionuclides disposed, the sur e measured at the surface of each was d the disposal.	he date on which the byproc vey instrument used, the ba	duct material was placed ckground dose rate, the					
accordance wi any enclosure statements, re	ically provided otherwise in this licens th the statements, representations, ar s, listed below. The Nuclear Regulator presentations, and procedures in the the regulations.	nd procedures contained in t ry Commissions's regulation	he documents, including is shall govern unless the					
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A. Application	dated June 9, 2010 (with attachment	); and	and the second se					
B. Letters dat	ed March 16, 2012, March 23, 2012, a	and April 27, 2012.	$\sim t$ $\sim \frac{1}{\tau_{c}} - \frac{1}{\tau_{c}} + \frac{1}{\tau_{c}}$					
	FOR	THE U.S. NUCLEAR REGU	LATORY COMMISSION					
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		-						
Date SEP 18 20	)1 <b>2</b> Bv	William PR						

William P. Reichhold Materials Licensing Branch Region III