NRC FORM 374			PAGE <u>1</u> OF <u>5</u> F Amendment N	PAGES 0. 07
	MATERIALS L	ICENSE		
Pursuant to the Atomic Energy Act of 1954, as an Federal Regulations, Chapter I, Parts 30, 31, 32, made by the licensee, a license is hereby issued special nuclear material designated below; to use such material to persons authorized to receive it is contain the conditions specified in Section 183 regulations, and orders of the Nuclear Regulator	mended, the Energy R 33, 34, 35, 36, 39, 40, authorizing the licens e such material for the in accordance with the of the Atomic Energ	eorganization Act of 19 and 70, and in reliance of ee to receive, acquire, p purpose(s) and at the pla regulations of the applic y Act of 1954, as ame	on statements and representations here possess, and transfer byproduct, sourc ace(s) designated below; to deliver or tr cable Part(s). This license shall be deer nded, and is subject to all applicable	etofore e, and ansfer med to
Licensee		In accordance wit	h the letter dated	
		October 18, 2013		
1. Cardinal Health 414, LLC		<ol> <li>License number</li> <li>Its entirety to react</li> </ol>	er 34-32780-02 is amended in I as follows:	
	- NR F	REA.		
2. 7000 Cardinal Place	CLEAR F	4. Expiration date	July 31, 2021	
Dublin, Ohio 43017		5. Docket No. 030	)-38331	
4		Reference No.	0	
6			2	
6. Byproduct, source, and/or special nuclear material	7. Chemical and/or	physical form	<ol> <li>Maximum amount that licensee n possess at any one time under th license</li> </ol>	
A. Carbon 11	A. Any	( KI-3	A. 10 curies	
B. Nitrogen 13	B. Any	M 18 3	B. 10 curies	
C. Oxygen 15	C. Any	m State	C. 10 curies	
D. Fluorine 18	D. Any		D. 30 curies	
E. Any byproduct material with atomic numbers 1 through 83 and half-life less than 120 days	E. Incidentally Ac	tivated Products	E. 1 curie per radionuclide and curies total	15
F. Sodium 24	F. Incidentally Ac	tivated Products	F. 10 millicuries	
G. Aluminum 28 0	G. Incidentally Ac	tivated Products	G. 10 millicuries	
H. Scandium 48	H. Incidentally Ac	tivated Products	H. 15 millicuries	
I. Vanadium 47	. Incidentally Ac	tivated Products	I. 15 millicuries	
	J. Incidentally Ac	tivated Products	J. 15 millicuries	
K. Chromium 51	K. Incidentally Ac	tivated Products	K. 50 millicuries	
Ū	•		L. 200 millicuries	
5	•		M. 200 millicuries	
Ū	•		N. 10 millicuries	
Ū	•		O. 10 millicuries	
	•		P. 200 millicuries	
	•		Q. 100 millicuries	
	•		R. 50 millicuries	
	•		S. 15 millicuries	
T. Cobalt 64	T. Incidentally Ac	tivated Products	T. 10 millicuries	

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MATERIALS LICENSE SUPPLEMENTARY SHEET		License Number 34-32780-02						
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		Amendment No. 07						
<ol> <li>Byproduct, source, and/or special nuclear material</li> </ol>	7. Chemical and/or physica	l form	<ol> <li>Maximum amount that licensee may possess at any one time under this license</li> </ol>					
U. Copper 60	U. Incidentally Activated	Products	U. 50 millicuries					
V. Copper 61	V. Incidentally Activated	Products	V. 25 millicuries					
W. Zinc 63	W. Incidentally Activated	Products	W. 15 millicuries					
X. Zinc 65	X. Incidentally Activated	Products	X. 15 millicuries					
Y. Niobium 93m	Y. Incidentally Activated	Products	Y. 15 millicuries					
Z. Niobium 94m 🔊	Z. Incidentally Activated	Products	Z. 100 millicuries					
AA. Molybdenum 93m	AA.Incidentally Activated	l Products	AA.100 millicuries					
BB. Technetium 95m	BB.Incidentally Activated	Products	BB.10 millicuries					
CC. Technetium 96	CC.Incidentally Activated Products	Rig	CC.10 millicuries					
AA. Molybdenum 93m BB. Technetium 95m CC. Technetium 96 DD. Rhenium 183	DD.Incidentally Activated		DD.10 millicuries					
EE. Rhenium 184	EE.Incidentally Activated	Products	EE.10 millicuries					
FF. Sodium 22	FF. Sealed Source (Eckert-Ziegler Mode	RV-022)	FF. 200 microcuries per source and 400 microcuries total					
GG. Sodium 22	GG. Sealed Source (Eckert-Ziegler Mode	200	GG.1 microcurie per source and 2 microcurie total					
HH. Technetium 99m	HH. Any		HH.5 curies					
II. Hydrogen 3	II. Incidentally Activated	Products	II. 10 millicuries					
		ms and cond	litions of specific licenses issued by					
E. through EE. and II. Possession ar	nd storage of byproduct ma	aterials incide	ental to radionuclide production.					
FF. through HH. Calibration of the licensee's instruments.								
CONDITIONS								
10. Licensed material may be used or stored only at the licensee's facilities located at 131 East Hartland Street, East Hartford, Connecticut 06108.								
11. Licensed material shall be used by, or under the supervision of, Robert Chicoine, Thomas Dilling, Robert Droege, Donald Ford, Paul Gotti, Kurt Hukriede, James Matthews, Norman Medina, Arshad Mehmood,								

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12.	Jess	d Missildine, Sean Nicol, Olof Robert Nilsson, Dao F ica Giacchetta. Radiation Safety Officer for this license is Kurt Hukr	
13.		license does not authorize distribution to persons licensee exempt from licensing; or to general licensee	
14.	The	licensee shall not use licensed material in or on hun	nan beings.
15.	A.	Sealed sources shall be tested for leakage and/or months or at the intervals specified in the certificat Regulatory Commission under 10 CFR 32.210 or State.	te of registration issued by the U.S. Nuclear
	В.	Notwithstanding Paragraph A of this Condition, se particles shall be tested for leakage and/or contar	
	C.	In the absence of a certificate from a transferor inc the intervals specified in the certificate of registrati Commission under 10 CFR 32.210 or under equiv the transfer, a sealed source received from anothe and the test results received.	on issued by the U.S. Nuclear Regulatory alent regulations of an Agreement State, prior to
	D.	Sealed sources need not be tested if they contain radioactive gas; or the half-life of the isotope is 30 100 microcuries of beta- and/or gamma-emitting material.	days or less; or they contain not more than
	E.	Sealed sources need not be tested if they are in state they are removed from storage for use or transferr within the required leak test interval, they shall be shall be stored for a period of more than 10 years contamination.	red to another person and have not been tested tested before use or transfer. No sealed source
	F.	The leak test shall be capable of detecting the pre radioactive material on the test sample. If the test (185 becquerels) or more of removable contamina Regulatory Commission in accordance with 10 CF immediately from service and decontaminated, reg Commission regulations.	reveals the presence of 0.005 microcurie ition, a report shall be filed with the U.S. Nuclear R 30.50(c)(2), and the source shall be removed
	G.	Tests for leakage and/or contamination, including performed by the licensee or by other persons spectrum commission or an Agreement State to perform succession or an Agreement State to perform succession.	ecifically licensed by the U.S. Nuclear Regulatory

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	H.	Records of leak test results shall be kept in units 5 years.	of microcuries and shall be maintained for		
16.	U.S. unde inve	licensee shall conduct a physical inventory every si Nuclear Regulatory Commission, to account for all er the license. Records of inventories shall be main ntory and shall include the radionuclides, quantities the date of the inventory.	sources and/or devices received and possessed tained for 5 years from the date of each		
17.	Sealed sources or detector cells containing licensed material shall not be opened or sources removed from source holders by the licensee.				
18.		licensee is authorized to hold byproduct material w days for decay-in-storage before disposal without re			
	A.	Monitors byproduct material at the surface before cannot be distinguished from the background rad detection survey meter set on its most sensitive s	ation level with an appropriate radiation		
	В.	Removes or obliterates all radiation labels, excep containers and that will be managed as biomedic licensee; and			
	C.	Maintains records of the disposal of licensed mate date of disposal, the survey instrument used, the measured at the surface of each waste container, the disposal.	background radiation level, the radiation level		
19.		licensee is authorized to transport licensed materia CFR Part 71, "Packaging and Transportation of Rad	•		

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<ul> <li>20. 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. 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.</li> <li>A. Application dated April 15, 2011 [ML11170516 and ML111570417]</li> <li>B. Letter dated April 22, 2011 [ML11170560]</li> <li>C. Letter dated July 6, 2011 [ML111940279]</li> <li>D. Letters dated October 23 and 24, 2012 [ML12312A410]</li> </ul>								

E. Letter received November 27, 2012 [ML12347A288]

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For the U.S. Nuclear Regulatory Commission

Date December 5, 2013

## Original signed by Elizabeth Ullrich

By

Elizabeth Ullrich Commercial and R&D Branch Division of Nuclear Materials Safety Region I King of Prussia, Pennsylvania 19406