NRC FORM 374 U.S. NUCLEAR REGULAT	PAGE <u>1</u> OF <u>4</u> PAGES TORY COMMISSION Amendment No. 19								
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, 39, 40, and 70, 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 the letter dated								
	September 19, 2013,								
1. Agilent Technologies Inc.	3. License number 07-28762-01 is amended in								
	its entirety to read as follows:								
CAR /	EG.								
2. 2850 Centerville Road	4. Expiration date February 28, 2023								
Wilmington, Delaware 19808	5. Docket No. 030-32792								
4	Reference No.								
9	2								
<ul> <li>Byproduct, source, and/or special nuclear material</li> <li>A. Hydrogen 3</li> <li>B. Nickel 63</li> <li>Foils and Plate (Isotope Product)</li> <li>Chemical and/or</li> <li>A. Plated Foils (Logo 10, 10, 10, 10, 10, 10, 10, 10, 10, 10,</li></ul>	<ul> <li>J.S. Radium</li> <li>J.S. Radium</li> <li>B-1 and LAB</li> <li>A. 4 curies and no single source to exceed the maximum activity specified in the certificate of registration issued by the U.S. Nuclear Regulatory 1Commission or an Agreement State</li> <li>B. 100 curies and no single source to exceed the maximum activity specified in the</li> </ul>								
sources; AEA custom plated & Ziegler Isoto (formerly QSA NBCD; Eckert Isotope Produ 004P; or Bristo Medical Imagi DuPont Merck	al custom plated Technology sources; Eckert ope Products Global) Model & Ziegler cts Model NER- ol-Myers Squibb ng (formerly								
A. and B. Receipt of returned devices for disposal.									

	FORM 3	8746	PAGE 2 OF 4 PAGES						
			License Number 07-28762-01						
	MATERIALS LICENSE SUPPLEMENTARY SHEET		Docket or Reference Number 030-32792						
			Amendment No. 19						
B.	Research and development as defined in 10 CFR 30.4; testing, production, and assembly of detector cells; demonstration of use of detector cells; and for distribution in detector cells to persons authorized to receive the licensed material pursuant to terms and conditions of specific licenses issued by the Nuclear Regulatory Commission or any Agreement State.								
CONDITIONS									
10.	Licensed material may be used or stored only at the licensee's facilities located at Little Falls Center, 2850 Centerville Road, Wilmington, Delaware.								
11.	A.	Licensed material shall be used by, or under the supervision and in the physical presence of, individuals who have received the training described in the letter dated October 31, 2013, and September 5, 2012.							
	В.	The Radiation Safety Officer for this license is Da	vid S. Bennett.						
12.	The	The licensee shall not use licensed material in or on human beings.							
13.		This license does not authorize distribution to persons licensed pursuant to 10 CFR 32.72 or 32.74; to persons exempt from licensing; or to general licensees.							
14.	A.	Sealed sources shall be tested for leakage and/or months or at the intervals specified in the certifica Regulatory Commission under 10 CFR 32.210 or State.	te of registration issued by the U.S. Nuclear under equivalent regulations of an Agreement						
	B.	In the absence of a certificate from a transferor in the intervals specified in the certificate of registrat Commission under 10 CFR 32.210 or under equiv the transfer, a sealed source received from anoth and the test results received.	ion issued by the U.S. Nuclear Regulatory ralent regulations of an Agreement State, prior to						
	C.	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 ralpha-emitting material.	days or less; or they contain not more than						
	D.	Sealed sources need not be tested if they are in s they are removed from storage for use or transfer 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						

NRC FORM 374A	PAGE 3 OF 4 PAGES
MATERIALS LICENSE SUPPLEMENTARY SHEET	License Number 07-28762-01
	Docket or Reference Number 030-32792
	Amendment No. 19

- E. The leak test shall be capable of detecting the presence of 0.005 microcurie (185 becquerels) of radioactive material on the test sample. If the test reveals the presence of 0.005 microcurie (185 becquerels) 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.
- F. Tests for leakage and/or contamination, including leak test sample collection and analysis, shall be performed by the licensee or by 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 microcuries and shall be maintained for 5 years.
- 15. The licensee shall conduct a physical inventory every six 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. Records of inventories shall be maintained for 5 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.

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16. The licensee is authorized to transport licensed material in accordance with the provisions of 10 CFR Part 71, "Packaging and Transportation of Radioactive Material."

NRC	FORM 374A		PAGE	4	OF	4	PAGES	
		License Number 07-28762-01						
MATERIALS LICENSE SUPPLEMENTARY SHEET		Docket or Reference Nu 030-32792	mber					
		Amendment No. 1	9					
<ul> <li>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. 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. Letter dated September 5, 2012 (ML12271A213)</li> <li>B. Letter dated January 22, 2013 (ML12291A842)</li> <li>C. Letter dated October 31, 2013</li> </ul>								

Date \_\_\_\_\_ November 8, 2013

ED STA

Nn n

## Original signed by Dennis R. Lawyer

For the U.S. Nuclear Regulatory Commission

By

Dennis R. Lawyer Commercial and R&D Branch Division of Nuclear Materials Safety Region I King of Prussia, Pennsylvania 19406