

**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.

|   |   |  |
|---|---|--|
| <p>Licensee</p> <p>1. PerkinElmer Health Sciences, Inc.</p> <p>2. 710 Bridgeport Avenue<br/>Shelton, Connecticut 06484</p>  | <p>In accordance with the application dated January 8, 2016,</p> <p>3. License number 06-02135-08 is amended in its entirety to read as follows:</p> <p>4. Expiration date February 28, 2026</p> <p>5. Docket No. 030-03776<br/>Reference No.</p> |  |
| <p>6. Byproduct, source, and/or special nuclear material</p> <p>A. Nickel 63</p>  | <p>7. Chemical and/or physical form</p> <p>A. Plated Foils (Nuclear Radiation Development N-1001)</p>   | <p>8. Maximum amount that licensee may possess at any one time under this license</p> <p>A. 15 millicuries per source and 4 curies total</p> |
| <p>9. Authorized use:</p> <p>A. Manufacturing and testing of gas chromatographs and for distribution to persons authorized to receive the licensed material pursuant to the terms and conditions of specific licenses issued by the NRC or any Agreement State.</p> |   |  |

**CONDITIONS**

10. Licensed material may be used or stored only at the licensee's facilities located at 710 Bridgeport Avenue, Shelton, Connecticut.
11. A. Licensed material shall be used by, or under the supervision of, Elizabeth Cantas, Alan Mears, Kevin Palmer, or Jeanne Raccio.
- B. The Radiation Safety Officer for this license is Elizabeth Cantas.
12. Each device distributed pursuant to the conditions of this license shall be in accordance with the

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following table:

| <u>Device Model Number</u>  | <u>Isotope</u> | <u>Source Model Number</u> | <u>Maximum Activity Per Source</u> |
|---|----------------|----------------------------|------------------------------------|
| Detector Cell Assembly N610-0063 containing Model N610-0133 detector cell | Nickel 63      | N-1001                     | 15 millicuries per foil            |
| Detector Cell Assembly N610-0134 containing Model N610-0133 detector cell | Nickel 63      | N-1001                     | 15 millicuries per foil            |

13. Each device distributed pursuant to the conditions of this license are authorized for export only shall be in accordance with the following table:

| <u>Device Model Number</u>  | <u>Isotope</u> | <u>Source Model Number</u> | <u>Maximum Activity Per Source</u> |
|---|----------------|----------------------------|------------------------------------|
| Detector Cell Assembly N610-0063 containing Model N610-0133 detector cell | Nickel 63      | N-1001                     | 15 millicuries per foil            |
| Detector Cell Assembly N610-0134 containing Model N610-0133 detector cell | Nickel 63      | N-1001                     | 15 millicuries per foil            |

14. A. Sealed sources shall be tested for leakage and/or contamination at intervals not to exceed six months or at the intervals specified in the certificate of registration issued by the U.S. Nuclear Regulatory Commission under 10 CFR 32.210 or under equivalent regulations of an Agreement State.

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- 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 the U.S. Nuclear Regulatory Commission under 10 CFR 32.210 or under equivalent regulations of 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.
- 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.
- D. 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.
- E. 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.
- F. 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.
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."

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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.

- A. Application dated January 8, 2016 (ML16015A040)  
B. Letter dated March 16, 2016 (ML16082A438)



For the U.S. Nuclear Regulatory Commission

Date March 22, 2016

By

***Original signed by Michael Reichard***

Michael Reichard  
Commercial, Industrial, R&D and Academic Branch  
Division of Nuclear Materials Safety  
Region I  
King of Prussia, Pennsylvania 19406