



The Commonwealth of Massachusetts
Executive Office of Health and Human Services
Department of Public Health
Bureau of Environmental Health
Radiation Control Program
Schrafft Center - Suite 1M2A
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COMMISSIONER

August 2, 2013

William R. Hoey
RSO & Radiation Protection Manager
PerkinElmer Health Sciences, Inc.
68 Elm Street
Hopkinton, Massachusetts 01748

RE: Amendment Number: 01
License Number: 56-0683
Docket Number: 20-0887

Dear Mr. Hoey:

Enclosed is the above referenced license amended as requested in your letter dated July 18, 2013.

Please review the enclosed document carefully. If there are any errors or questions, please do not hesitate to contact this office at the number above.

Sincerely,

Beverly E. Anderson, MPH, RS, Interim Director
Radiation Control Program

BEA/jg
Enclosure:(1)



THE COMMONWEALTH OF MASSACHUSETTS
 DEPARTMENT OF PUBLIC HEALTH
 RADIATION CONTROL PROGRAM
 MATERIALS LICENSE

Pursuant to Massachusetts General Laws Chapter 111, Sections 3, 5M, 5N, 5O and 5P and Massachusetts Regulations for the Control of Radiation, Section 120.100, Licensing of Radioactive Material, and in reliance on statements and representation heretofore made by the licensee, a license is hereby issued authorizing the licensee to receive, acquire, possess, and transfer radioactive materials 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 105 CMR 120.000. This license shall be deemed to contain the conditions specified in 105 CMR 120.000 and is subjected to all applicable rules, regulations of the Department of Public Health, Commonwealth of Massachusetts, now or hereafter in effect and to any conditions specified below.

Licensee	3. License Number: 56-0683 is amended in its entirety, in accordance with electronic letter dated July 18, 2013, to read as follows: Amendment No: <u>01</u>
1. PerkinElmer Health Sciences, Inc.	
2. 68 Elm Street Hopkinton, Massachusetts 01748	4. Expiration Date: May 31, 2018
	5. Docket No: 14-0644

6. Radioactive Material	7. Chemical / Physical Form	8. Maximum Possession Limit
A. Iodine-129	A. Sealed source (As listed in SS&D Registry Sheet NR-0529-D-106-G)	A. Not to exceed 0.035 microcuries per source; 1 millicurie total
B. Iodine-129	B. Sealed source (Perkin Elmer Sealed Calibration Source / Calibration Tray)	B. Not to exceed 0.07 microcuries per source; 1 millicurie total
C. Barium-133	C. Sealed source (As listed in SS&D Registry Sheet CA-0406-S-835-S, CA-0510-S-117-S, or NR-0476-S-841-S)	C. Not to exceed 22 microcuries per source; 25 millicuries total
D. Cesium-137	D. Sealed source (As listed in SS&D Registry Sheet CA-0181-D-101-G)	D. Not to exceed 40 microcuries per source; 5 millicuries total
E. Cesium-137	E. Sealed source (As listed in SS&D Registry Sheet CA-0181-D-101-G)	E. Not to exceed 30 microcuries per source; 5 millicuries total

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MATERIALS LICENSE SUPPLEMENTARY SHEET	DOCKET NUMBER: 14 - 0644
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6. Radioactive Material	7. Chemical / Physical Form	8. Maximum Possession Limit
F. Europium-152	F. Sealed source (As listed in SS&D Registry Sheet MA-8173-D-802-G)	F. Not to exceed 1 microcurie per source; 25 millicuries total
G. Europium-152	G. Sealed source (As listed in SS&D Registry Sheet MA-8173-D-801-G)	G. Not to exceed 12 microcuries per source; 25 millicuries total
H. Europium-152	H. Sealed source (Wallac OY Model 1110-0017 calibration or reference source)	H. Not to exceed 20 microcuries per source; 25 millicuries total
I. Radium-226	I. Sealed source (As listed in SS&D Registry Sheet IL-0529-D-107-B)	I. Not to exceed 22 microcuries per source; 20 millicuries total
J. Radium-226	J. Sealed source (As listed in SS&D Registry Sheet CA-0406-S-135-S)	J. Not to exceed 27.5 microcuries per source; 20 millicuries total
K. Radium-226	K. Sealed source (Wallac OY Model 10846783 calibration or reference source)	K. Not to exceed 10 microcuries per source; 25 millicuries total
L. Americium-241	L. Sealed source (As listed in SS&D Registry Sheet MA-1059-S-842-S)	L. Not to exceed 130 microcuries per source; 130 millicuries total
M. Hydrogen-3	M. Sealed source - calibration and reference source	M. Not to exceed 25 microcuries per source; 10 millicuries total
N. Carbon-14	N. Sealed source - calibration and reference source	N. Not to exceed 100 microcuries per source; 10 millicuries total

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6. Radioactive Material	7. Chemical / Physical Form	8. Maximum Possession Limit
O. Chromium-51	O. Sealed source - calibration and reference source	O. Not to exceed 1.0 microcurie per source; 100 microcuries total
P. Cobalt-57	P. Sealed source - calibration and reference source	P. Not to exceed 0.1 microcurie per source; 100 microcuries total
Q. Iodine-129	Q. Sealed source - calibration and reference source	Q. Not to exceed 0.05 microcurie per source; 100 microcuries total
R. Iodine-125	R. Sealed source - calibration and reference source	R. Not to exceed 0.1 microcurie per source; 100 microcuries total
S. Cesium-137	S. Sealed source - calibration and reference source	S. Not to exceed 0.3 microcurie per source; 100 microcuries total
T. Barium-133	T. Sealed source - calibration and reference source	T. Not to exceed 1.0 microcurie per source; 100 microcuries total

9. Authorized use:

A. through L. For possession incident to the repair or servicing of liquid scintillation counting systems, calibration systems, crystal multidetector gamma systems originally distributed to persons generally licensed pursuant to applicable provisions of regulations of the U. S. Nuclear Regulatory Commission or an Agreement State; or for possession incident to storage and transfer to licensed authorized recipients or a licensed disposal site of standard sources removed from these systems by licensee service personnel; or for possession incident to storage and replacement of standard sources in these systems by licensee service personnel as described in the application dated February 12, 2013.

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M. through T. For possession incident to storage and distribution pursuant to the terms and conditions of U.S.N.R.C. license # 20-00320-14E to persons exempt from licensing.

CONDITIONS

10. A. Radioactive material may be stored and used at the licensee's facilities located at 5 Parkwood Drive, Hopkinton, Massachusetts, and used at temporary job sites of the licensee anywhere in the Commonwealth of Massachusetts except areas under exclusive Federal jurisdiction. Authorization for use of radioactive materials at job sites under exclusive Federal jurisdiction or in other states may be obtained from the U.S. Nuclear Regulatory Commission or the appropriate state regulatory agency.
11. This license is subject to an annual fee as determined by the Executive Office for Administration and Finance.
12. A. Licensed material shall be used by, or under the supervision of, William R. Hoey.
B. The Radiation Safety Officer for this license is William R. Hoey.
13. Sealed sources containing licensed radioactive material shall not be opened by the licensee.
14. The licensee shall conduct a physical inventory every 6 months, or at other intervals approved by the Agency, to account for all sources and/or devices received and possessed under the license. Records of inventories shall include the radionuclides, quantities, manufacturer's name and model numbers, and the date of inventory.
15. A. Sealed sources shall be tested for leakage and/or contamination at intervals not to exceed six (6) months or at such other intervals as are specified by the certificate of registration referred to in 105 CMR 120.128(N). In the absence of a certificate from a transferor indicating that a leak test has been made within six (6) months prior to the transfer, a sealed source received from another person shall not be put into use until tested.

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- B. 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.
- C. The leak test shall be capable of detecting the presence of 185 becquerel (0.005 microcurie) of radioactive material on the test sample. Records of leak test results shall be kept in units of becquerel or microcurie and shall be maintained for inspection by the Agency. If the test reveals the presence of 185 becquerel (0.005 microcurie) or more of removable contamination, a report shall be filed with the Agency and the source shall be removed from service and decontaminated, repaired, or disposed of in accordance with Agency regulations. The report shall be filed within 5 days of the date the leak test result is known with the Massachusetts Department of Public Health, ATTN: Director, Radiation Control Program. The report shall specify the source involved, the test results, and the corrective action taken.
- D. The licensee is authorized to collect leak test samples for analysis. Alternatively, tests for leakage and/or contamination may be performed by persons specifically licensed by the Agency, the U.S. Nuclear Regulatory Commission, or an Agreement State, to perform such services.
16. The licensee shall not acquire licensed material in a sealed source or in a device that contains a sealed source unless the source or device has been registered pursuant to 105 CMR 120.128(N), or equivalent regulations of the U.S. Nuclear Regulatory Commission, or an Agreement State. The licensee may possess and use sealed sources which were in the licensee's possession as of the date of this license.
17. This license does not authorize pursuant to 105 CMR 120.128(D) the manufacture or initial transfer of devices containing radioactive material to persons generally licensed under 105 CMR 120.122(D) or equivalent regulations of the U.S. Nuclear Regulatory Commission or an Agreement State.
18. This license does not authorize pursuant to 105 CMR 120.128(N) the manufacture or initial distribution of sealed sources or devices containing sealed sources to persons specifically licensed by the U.S. Nuclear Regulatory Commission or an Agreement State.

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19. The licensee shall only transport radioactive material or deliver radioactive material to a carrier for transport in accordance with the provisions of 49 CFR Parts 170 through 189, 10 CFR Part 71, and 105 CMR 120.770 "Transportation of Radioactive Material."
20. Except as specifically provided otherwise by this license, the licensee shall conduct its program in accordance with statements, representations and procedures contained in the documents, including any enclosures, listed below. The Massachusetts Regulations for the Control of Radiation (105 CMR 120.000) shall govern, unless statements, representations and procedures in the licensee's application and correspondence are more restrictive than the regulations.
- A. Application dated February 12, 2013
 - B. Electronic letter dated April 4, 2013
 - C. Electronic letter dated April 5, 2013
 - D. Electronic letter dated April 8, 2013
 - E. Electronic letter dated April 12, 2013
 - F. Electronic letter dated April 15, 2013
 - G. Letter dated June 3, 2013
 - H. Electronic letter dated July 18, 2013

FOR THE COMMONWEALTH OF MASSACHUSETTS
DEPARTMENT OF PUBLIC HEALTH
RADIATION CONTROL PROGRAM

Date 8/21/2013

By Beverly E. Anderson
Beverly E. Anderson, MPH, RS, Interim Director

