



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: 02-8042 is renewed in its entirety, in application with letter dated April 25, 2007, to read as follows: Amendment No: <u>04</u>
1. PerkinElmer Optoelectronics, Inc.		
2. 35 Congress Street Salem, Massachusetts 01970		4. Expiration date: August 31, 2012
		5. Docket No: 99-0162
6. Radioactive Material	7. Chemical/Physical Form	8. Maximum Possession Limit
A. Ni-63	A. Any	A. 1 curie
B. Kr-85	B. Any	B. 6 curies
9. Authorized use: A. and B. For use in development, manufacture, testing and distribution of electron tubes to authorized recipients.		

CONDITIONS

- 10. Radioactive materials shall be used or stored at the licensee's facilities located at 35 Congress Street, Salem, Massachusetts.
- 11. A. Radioactive material shall only be used by, or under the supervision of David O'Brien.
- B. The Radiation Safety Officer for this license is David O'Brien.

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12. This license does not authorize the distribution of electron tubes for use under the exemption of 105 CMR 120.104.
13. This license is subject to an annual fee as determined by the Executive Office for Administration and Finance.
14.
 - A. Sealed sources and detector cells shall be tested for leakage and/or contamination at intervals not to exceed six months or at such other intervals as are specified by the certificate of registration referred to in 105 CMR 120.128 (N), not to exceed 3 years.
 - B. Notwithstanding Paragraph A of this Condition, sealed sources designed to emit alpha particles shall be tested for leakage and/or contamination at intervals not to exceed three months.
 - C. In the absence of a certificate from a transferor indicating that a leak test has been made within 6 months prior to the transfer, a sealed source or detector cell received from another person shall not be put into use until tested.
 - D. Each sealed source fabricated by the licensee shall be inspected and tested for construction defects, leakage, and contamination prior to any use or transfer as a sealed source.
 - E. Sealed sources and detector cells need not be leak tested if:
 - (i) they contain only hydrogen-3
 - (ii) they contain only a gas; or
 - (iii) the half-life of the isotope is 30 days or less; or
 - (iv) they contain not more than 100 microcuries of beta and/or gamma emitting material or not more than 10 microcuries of alpha emitting material; or
 - (v) they are not designed to emit alpha particles, are in storage, and are not being used. However, when they are removed from storage for use or transfer 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 or detector cell shall be stored

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for a period of more than 10 years without being tested for leakage and/or contamination.

- F. The test shall be capable of detecting the presence of 185 becquerels (0.005 microcurie) of radioactive material on the test sample. If the test reveals the presence of 185 becquerels (0.005 microcurie) or more of removable contamination, the source shall be removed from service and decontaminated, repaired, or disposed. A report shall be filed with the Director of the Radiation Control Program, 174 Portland Street, 5th Floor, Boston, Massachusetts, 02114 within 5 days of the date that the leak test result is known. The report shall specify the source involved, the test results, and corrective action taken.
- G. The licensee is authorized to collect leak test samples for analysis by the licensee. Alternatively, tests for leakage and/or contamination may be performed by persons specifically authorized by the Agency, an Agreement State, a Licensing State, or the United States Nuclear Regulatory Commission (U.S.N.R.C.) to perform such services.
15. The licensee shall only transport radioactive material 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."
16. 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. Renewal Application dated April 25, 2007

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Date 08/09/07

By Robert Walker
Robert Walker, Director

