

**MATERIALS LICENSE**

**Corrected Copy**

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 letter dated <b>July 7, 2008,</b>
1. The Medical Physics Group, LTD.	3. License number 24-24392-01 is amended in its entirety to read as follows:
2. <b>11475 Olde Cabin Road</b> <b>Suite 200</b> <b>St. Louis, MO 63141</b>	4. Expiration date December 31, 2013
	5. Docket No. 030-18575 Reference No.

6. Byproduct, source, and/or special nuclear material	7. Chemical and/or physical form	8. Maximum amount that licensee may possess at any one time under this license
A. Cesium-137	A. Sealed source (New England Nuclear Model 356, Vial E)	A. 2 sources not to exceed 1 millicurie each.
B. Barium-133	B. Sealed source (New England Nuclear Model 358, Vial E)	B. 2 sources not to exceed 1 millicurie each.
C. Cobalt-60	C. Sealed source (New England Nuclear Model 354, Vial E)	C. 2 sources not to exceed 1 millicurie each.
D. Any byproduct material	D. Analytical Samples	D. <b>Total activity not to exceed 10 millicuries except as specified in condition 17 .</b>
E. Cesium-137	E. Sealed source (AEA Technology, Model 77032)	E. Not to exceed 200 millicuries.
F. Technetium-99m	F. Any	F. <b>Total activity not to exceed 100 millicuries.</b>

9. Authorized Use:
- A. through C., E. and F. Instrument checks, calibration, transmission and/or reference checks as a commercial service to clients.
  - D. For possession incident to the performance of tests for leakage and/or contamination on sealed sources as a commercial service to clients.

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10. Licensed material may be used and stored at the licensee's facilities located at St. John's Mercy Medical Center, 615 S. New Ballas Road, St. Louis, MO. Licensed material listed in Subitems 6.A. through 6.D. and 6.F. may be used at temporary job sites of the licensee anywhere in the United States where the U.S. Nuclear Regulatory Commission maintains jurisdiction for regulating the use of licensed material.
11. Licensed material shall be used by, or under the supervision and in the physical presence of, Robert Turco, Ph.D., Christopher Durbin, Ph.D., Jean Gu, M.S., or Kenneth L. Andrews, M.S.
12. Radiation Safety Officer: Robert Turco, Ph.D.
13.
  - A. Sealed sources shall be tested for leakage and/or contamination at intervals not to exceed 6 months or at such other intervals as specified by the certificate of registration referred to in 10 CFR 32.210.
  - 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 received from another person shall not be put into use until tested.
  - E. Sealed sources need not be leak tested if 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.
  - F. 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.
  - G. Tests for leakage and/or contamination shall be performed by the licensee or by other persons specifically licensed by the Commission or an Agreement State to Perform such services.
14. Sealed sources containing licensed material shall not be opened.
15. The licensee shall conduct a physical inventory every 6 months to account for all sources and/or devices received and possessed under the license.
16. The licensee is authorized to hold radioactive material with a physical half-life of less than 120 days for decay-in-storage before disposal in ordinary trash provided:
  - A. Radioactive waste to be disposed of in this manner shall be held for decay a minimum of 10 half-lives.

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- B. Before disposal as ordinary trash, byproduct material shall be surveyed at the container surface with the appropriate meter set on its most sensitive scale and with no interposed shielding to determine that its radioactivity cannot be distinguished from background. All radiation labels shall be removed or obliterated.
- C. A record of each disposal permitted under this License Condition shall be retained for 3 years. The record must include the date of disposal, the date on which the byproduct material was placed in storage, the radionuclides disposed, the survey instrument used, the background dose rate, the dose rate measured at the surface of each waste container, and the name of the individual who performed the disposal.
17. In addition to the possession limits in Condition 8, the licensee shall further restrict the possession of licensed material to quantities below the minimum limit specified in 10 CFR 30.35(d) for establishing decommissioning financial assurance.
18. The licensee is authorized to transport licensed material only in accordance with the provisions of 10 CFR Part 71, "Packaging and Transportation of Radioactive Material."
19. 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 July 25, 2003; and
- B. Letter dated November 17, 2003.

FOR THE U.S. NUCLEAR REGULATORY COMMISSION

Date MAY 20 2011By William P. Reichhold  
William P. Reichhold  
Materials Licensing Branch  
Region III