NRC FORM 374

U.S. NUCLEAR REGULATORY COMMISSION

Amendment No. 35

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.

YC 02500 31633/

Licensee	In accordance with letter dated **June 21, 2007,**
1. Mallinckrodt Inc. 675 McDonnell Boulevard 2. P.O. Box 5840 St. Louis, MO 63134	3. License number 24-04206-11MD is amended in its entirety to read as follows:
	4. Expiration date March 31, 2015
	5. Docket No. 030-30262 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. Any byproduct material with atomic numbers 1 through 83, except molybdenum-99, technetium-99m, iodine-131, and xenon-133.	A. Any	A. 500 millicuries per radionuclide not to exceed 1 curie total.
B. Molybdenum-99	B. Any	B. 200 Curies
C. Technetium-99m	C. Any	C. 200 Curies
D. Iodine-131	D. Any	D. 900 millicuries
E. Xenon-133	E. Any	E. 2 curies
F. Any byproduct material listed 10 CFR 31.11(a)	B. Prepackaged units for in vitro diagnostic test	B. 20 millicuries
G. Any byproduct material authorized under 10 CFR 35.65(a) or 35.65(b)	G. Sealed sources	G. 300 millicuries
H. Yttrium-90	H. Unsealed for preparation of radiopharmceuticals for medical use	H. 1 curie
I. Depleted uranium	I. Metal	I. 200 kilograms

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9. Authorized use:

A. through E and H. Preparation and distribution of radioactive drugs including compounding of iodine-131 and redistribution of unused molybdenum-99/technetium-99 generators to authorized recipients in accordance with 10 CFR 32.72. Preparation and distribution of radioactive drugs and radiochemicals including compounding of iodine-131 and redistribution of unused molybdenum-99/technetium-99m generators to authorized recipients for non-medical use.

F. Redistribution to specific licensees or general licensees pursuant to 10 CFR 31.11 provided the packaging and labeling remain unchanged.

G. Redistribution of sealed sources to specifically authorized recipients. Pursuant to 10 CFR 32.74, the licensee is authorized to redsitribute sources to persons licensed pursuant to 10 CFR 35.65(a), or equivalent licenses of Agreement States.

I. Shielding for Mo99/Tc99m generators.

CONDITIONS

10. Licensed material shall be used only at the licensee's facilities located at 2795 Universal Drive, Saginaw, Michigan.

11. Licensed material shall be used by, or under the supervision of:

(1) a pharmacist working or designated as an authorized nuclear pharmacist in accordance with 10 CFR 32.72(b)(2) and (4), or

(2) authorized nuclear pharmacists: Joseph Blair, Nichole D. Brown, Craig Petzold, William A. Crawford, Melinda Donoho, David Hart, James D. Kauchak, John Keenan, Michael Klug, David Poydence, Debra Ross, Roger S. Saadeh, Aly Sharaf, Karen Dolph, Brenda Schultz, Sara Vogler, Rachel Semon, David McLeland, Mark P. Masterson, Eric Lester, Reginald A. Carey, Pharm.D., R.Ph., Jeanine Halverson, R.Ph. and Norita Yip, R.Ph.

12. The Radiation Safety Officer for this license is Joseph Blair, R.Ph.

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.

B. 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.

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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 of radioactive material on the test sample. If the test reveals the presence of 0.005 microcurie 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. The report shall be filed within 5 days of the date the leak test result is known with the appropriate U.S. Nuclear Regulatory Commission, Regional Office referenced in Appendix D of 10 CFR Part 20. The report shall specify the source involved, the test results, and corrective action taken.

E. 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 this license.

16. 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."

17. The licensee is authorized to hold radioactive material with a physical half-life of less than or equal to 120 days for decay-in-storage before disposal in ordinary trash provided:

A. Before disposal as ordinary trash, byproduct material shall be surveyed at the container surface with the appropriate survey 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.

B. A record of each disposal permitted under this License Condition shall be retained for three 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.

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18. The licensee is authorized to retrieve, receive and dispose of radioactive waste from its customers limited to radiopharmacy supplied syringes and vials and their contents.

19. In addition to the possession limits in Item 8, the licensee shall further restrict the possession of licensed material to quantities below the minimum limit specified in 10 CFR 30.35(d) and 40.36(b) for establishing decommissioning financial assurance.

20. This license does not authorize distribution to persons exempt from licensing.

21. Except for maintaining labeling as required by 10 CFR Part 20 or 71, the licensee shall obtain authorization from NRC before making any changes in the sealed source, device, or source-device combination that would alter the description or specifications as indicated in the respective Certificates of Registration issued either by the Commission pursuant to 10 CFR 32.210 or by an Agreement State.

22. 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 October 28, 2004, and

B. Letters dated May 9, 2005 (excluding Attachment A), May 13, 2005, **and May 10, 2007**.

FOR THE U.S. NUCLEAR REGULATORY COMMISSION

Date AUG 31 2007

By _____
Kevin G. Null
Materials Licensing Branch
Region III