

**MATERIALS LICENSE**

Amendment No. 4

Pursuant to the Atomic Energy Act of 1954, as amended, the Energy Reorganization Act of 1974 (Public Law 93-438), and the applicable parts of Title 10, Code of Federal Regulations, Chapter I, Parts 19, 20, 30, 31, 32, 33, 34, 35, 36, 39, 40, 51, 70, and 71, and in reliance on statements and representations heretofore made by the licensee, a licensee 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.

<b>Licensee</b>		3.	License Number: STB-401
1.	Mallinckrodt, Inc.		
2.	Mallinckrodt & Second Streets P.O. Box 5439 St. Louis, Missouri 63147	4.	Expiration Date: Until terminated
		5.	Docket No.: 40-6563
6.	Byproduct, Source, and/or Special Nuclear Material: A. Natural Uranium B. Natural thorium	7.	Chemical and/or Physical Form: A. Any chemical or physical form B. Any chemical or physical form
		8.	Maximum Amount that Licensee May Possess at Any One Time Under This License: A. 3,000 kilograms B. 3,000 kilograms

9. Authorized Place of Use: The licensee's existing facilities in St. Louis, Missouri.
10. Authorized use: For possession only in accordance with the statements, representations, and conditions specified in the licensee's application dated May 24, 1984; and supplements dated July 26, 1985; (Chapters 1 through 5); August 28, 1987; August 30, 1988; May 8, 1989; and January 20, 1993.
11. The Plant Manager, St. Louis Plant, shall be responsible for facility safety and compliance with NRC regulations and the license. The Manager shall have the authority to delegate these responsibilities to staff positions.
12. The Site Radiation Safety Officer shall have completed a basic radiation safety course and at least 2 years of work experience in applied radiation protection.
13. All employees assigned work in restricted areas shall attend refresher training in 10 CFR Part 20 and the Mallinckrodt, Inc., radiation Protection Program at intervals not exceeding 12 months; the extent of such training shall be commensurate with their job function. Written tests shall be administered to determine the effectiveness of the training program, and records shall be maintained of the test results.
14. The licensee shall perform quarterly area air measurements for radon and TLD within onsite buildings.

**MATERIALS LICENSE**

<b>MATERIALS LICENSE SUPPLEMENTARY SHEET</b>	License Number	STB-401
	Docket or Reference Number	40-6563
	Amendment No.	4

15. Notwithstanding the decontamination commencement provisions of Part 1, Section 3.6, of the supplement dated July 26, 1985, the licensee shall commence decontamination of surfaces exceeding the action levels of Section 3.6 within 24 hours of detection. The Site Radiation Safety Officer shall evaluate and approve any delays of decontamination work that will exceed 24 hours.
16. Prior to the release of facilities and equipment for unrestricted use, the facilities and equipment shall be decontaminated in accordance with the enclosed "Guidelines for Decontamination of Facilities and Equipment Prior to Release for Unrestricted use or Termination of Licenses for Byproduct, Source, or Special Nuclear Materials," dated April 1993.
17. The licensee shall develop and implement a program to demonstrate compliance with new 10 CFR 20.303 prior to discharge to waste water.
18. Decommissioning of C-T process buildings shall be done in accordance with the "Phase 1 Plan For C-T Decommissioning," submitted on January 10, 2002, and revisions submitted on February 13, 2002, and March 8, 2002.
19. Removal of URO from Plant 6W shall be done in accordance with the "Request for License Amendment Request to Remove URO from Plant 6W," submitted on November 20, 2007, and revisions submitted on January 28, 2008, and March 17, 2008. Prior to removal of URO from Trench 10, Mallinckrodt and USACE will need to conclude a similar delineation agreement -- to be examined by NRC -- defining the geographical boundary of licensed material in Trench 10.

FOR THE U.S. NUCLEAR REGULATORY COMMISSION

Dated: 5/12/2008

/IRA/

Keith I. McConnell, Deputy Director  
Decommissioning and Uranium Recovery  
Licensing Directorate  
Division of Waste Management  
and Environmental Protection  
Office of Federal and State Materials  
and Environmental Management Programs