

U.S. NUCLEAR REGULATORY COMMISSION

Amendment No. 17

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.

PC 03620

318851

Licensee	In accordance with application dated February 12, 2010,
1. Missouri Analytical Laboratories, Inc.	3. License number 24-12366-01 is amended in its entirety to read as follows:
2. 1820 Delmar Boulevard St. Louis, MO 63103	4. Expiration date June 30, 2014
	5. Docket No. 030-05138 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. Phosphorus-32	A. Irradiated teeth	A. 30 millicuries

9. Authorized Use:

- A. For use in determining abrasion of dentifrices.

CONDITIONS

10. Licensed material shall be used only at the licensee's facilities located at 1820 Delmar Blvd., St. Louis, Missouri.
11. A. Licensed material shall be used by, or under the supervision of Edward Ginzler, Ross Larson, Bill Tator, Liu Xin, Matt Moore or Nicole Engler.
- B. The Radiation Safety Officer for this license is Ross Larson.
12. Licensed material shall not be used in or on human beings.
13. This license does not authorize commercial distribution of licensed material.
14. **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.**

**MATERIALS LICENSE
SUPPLEMENTARY SHEET**License Number
24-12366-01Docket or Reference Number
030-05138**Amendment No. 17**

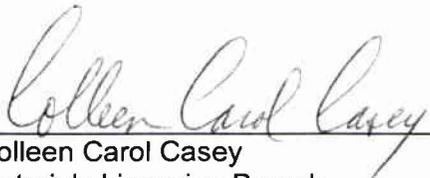
- B. A record of each disposal permitted under this License Condition shall be retained for three years. The record must include the date of disposal, the date on which the byproduct material was placed in storage, the radionuclides disposed, the survey instrument used, the background dose rate, the dose rate measured at the surface of each waste container, and the name of the individual who performed the disposal.**
- 15. The licensee may transport licensed material in accordance with the provisions of 10 CFR Part 71, "Packaging and Transportation of Radioactive Material."**
- 16. 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) for establishing decommissioning financial assurance.**
- 17. 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 January 26, 2004, and February 12, 2010 (with attachments).**

FOR THE U.S. NUCLEAR REGULATORY COMMISSION

MAY 20 2010

Date _____

By _____


Colleen Carol Casey
Materials Licensing Branch
Region III