

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.

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<p>Licensee</p> <p>1. Aptuit, Inc.</p> <p>2. 10245 Hickman Mills Drive Kansas City, MO 64134-0708</p>	<p>In accordance with application dated October 25, 2007,</p> <p>3. License number 24-15595-01 is amended in its entirety to read as follows:</p> <p>4. Expiration date September 30, 2014</p> <p>5. Docket No. 030-09415 Reference No.</p>
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<p>6. Byproduct, source, and/or special nuclear material</p> <p>A. Hydrogen-3</p> <p>B. Carbon-14</p> <p>C. Sulfur-35</p> <p>D. Iodine-125</p> <p>E. Iodine-131</p>	<p>7. Chemical and/or physical form</p> <p>A. Any</p> <p>B. Any</p> <p>C. Any</p> <p>D. Any</p> <p>E. Any</p>	<p>8. Maximum amount that licensee may possess at any one time under this license</p> <p>A. 1 curie</p> <p>B. 2 curies</p> <p>C. 20 millicuries</p> <p>D. 20 millicuries</p> <p>E. 30 millicuries</p>
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9. Authorized Use:

A. through E. To be used for research and development as defined in 10 CFR 30.4, including animal studies.

CONDITIONS

- 10. Licensed material shall be used only at the licensee's facilities located at 10245 Hickman Mills Drive, Kansas City, Missouri.
- 11. The Radiation Safety Officer for this license is Pamela A. Barton.
- 12. Licensed material shall be used by, or under the supervision of, individuals designated by **Clint Gregg**, Radiation Safety Officer.
- 13. The licensee shall not use licensed material in or on human beings except as provided otherwise by specific condition of this license.
- 14. The licensee shall not use licensed material in field applications where activity is released except as provided otherwise by specific condition of this license.

**MATERIALS LICENSE
SUPPLEMENTARY SHEET**

License Number
24-15595-01

Docket or Reference Number
030-09415

Amendment No. 26

15. 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. 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.
16. Experimental animals, or the products from experimental animals, that have been administered licensed materials shall not be used for human consumption.
17. The licensee is authorized to transport licensed material in accordance with the provisions of 10 CFR Part 71, "Packaging and Transportation of Radioactive Material."
18. 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. Applications dated September 13, 1993 (limited to Item 9., Facilities and Equipment; Radiation Safety Protocols; and Appendix III, Training and Experience Requirements) and February 27, 2004 (except for incineration of waste that does not meet Part 20, Section 20.2005 (a)(1)&(2) criteria), and **October 25, 2007 (limited to the change in the RSO and Attachment 5, "Facility Diagrams.")**
- B. Letters dated August 23, 2004 August 30, 2005, January 5, 2007 and May 2, 2007..

FOR THE U.S. NUCLEAR REGULATORY COMMISSION

Date JAN 23 2008

By Kevin G. Null
Kevin G. Null
Materials Licensing Branch
Region III