

**UTAH DEPARTMENT OF ENVIRONMENTAL QUALITY  
DIVISION OF RADIATION CONTROL  
RADIOACTIVE MATERIAL LICENSE**

Pursuant to Utah Code Ann. Title 19, Chapter 3 and the Radiation Control Rules, Utah Administrative Code R313, and in reliance on statements and representations heretofore made by the licensee designated below, a license is hereby issued authorizing such licensee to transfer, receive, possess, and use the radioactive material designated below; and to use such radioactive material for the purpose(s) and at the place(s) designated below. This license is subject to all applicable rules, and orders now or hereafter in effect and to any conditions specified below.

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LICENSEE	)	3. License Number UT 1800237
	)	Amendment #14
1. Name ALS Laboratory Group, Environmental Division	)	*****
2. Address 960 West LeVoy Drive Salt Lake City, Utah 84123	)	4. Expiration Date May 31, 2012
	)	*****
	)	5. License Category - 3-1
	)	In accordance with letter dated
	)	November 19, 2008, this license
	)	is amended in its entirety.

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6. Radioactive material (element and mass number)	7. Chemical and/or physical form	8. Maximum quantity licensee may possess at any one time
A. Any radioactive material listed in Appendix B to 10 CFR 30 (2007 edition).	A. Any	A. 1.5 times the quantities of licensed material as specified in Appendix B to 10 CFR 30 (2007 edition).*
B. Source material, or special nuclear material not listed in Appendix B to 10 CFR 30 (2007 edition).	B. Any	B. Not to exceed 370 megabecquerels (10 mCi) per isotope; 37 gigabecquerels (1 Ci) total.*

\* See License Condition # 24 for additional possession restrictions.

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9. AUTHORIZED USE

A. & B. For analysis of licensed materials. For use in calibration standards and standard solutions incident to analysis of samples. For training of analysts and the development of analytical methods.

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CONDITIONS

10. Licensed material shall be used only at the licensee's facilities located at 960 West LeVoy Drive, Salt Lake City, Utah.

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11. The licensee shall comply with the provisions of R313-18, "Notices, Instructions and Reports to Workers, by Licensees or Registrants—Inspections" and R313-15, "Standards for Protection Against Radiation."
12.
  - A. Licensed material shall be used by, or under the supervision and in the physical presence of, the Radiation Safety Officer or individuals who have been trained and designated by the licensee's Radiation Safety Officer.
  - B. The licensee shall maintain records of the individuals who have been designated as authorized users.
13. The licensee shall conduct its training program according to the following criteria:
  - A. As specified in the licensee's application dated April 9, 2007 and facsimile transmittals dated September 26, 2007.
  - B. The training instructor for this license shall be the Radiation Safety Officer.
  - C. The licensee shall maintain records of all individuals trained.
14. The Radiation Safety Officer for the activities authorized by this license is Robert P. Di Rienzo.
15. The licensee shall conduct a physical inventory every six months to account for all radioactive materials received and possessed under the license. The records of the inventories shall be maintained for three years from the date of the inventory for inspection by the Division, and shall include the quantities and kinds of licensed material, location of radioactive materials, the date of the inventory, and the name of the individual conducting the inventory.
16. This license does not authorize commercial distribution of licensed material.
17. Licensed material shall not be used in or on human beings, in field applications where activity is released, or in products distributed to the public.
18.
  - A. Calibration of radiation detection instruments shall be performed by individuals specifically licensed by the Executive Secretary, the U.S. Nuclear Regulatory Commission, or an Agreement State to provide such services and shall be performed at least annually, or after servicing and/or repair.
  - B. Notwithstanding License Condition 18.A, the licensee is authorized to calibrate liquid scintillation counters, gamma counters, gas flow proportional counters, and multichannel analyzers in accordance with Appendix M to NUREG-1556, Vol. 7 (Final Report, December 1999).
  - C. Instrument calibration records shall include information identified in Appendix M to NUREG-1556, Vol. 7 (Final Report, December 1999).

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20. 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 without regard to its radioactivity if the licensee:
- A. Monitors radioactive material at the surface before disposal and determines that its radioactivity cannot be distinguished from the background radiation level with an appropriate radiation detection survey meter set on its most sensitive scale and with no interposed shielding; and
  - B. Removes or obliterates all radiation labels, except for radiation labels on materials that are within containers and that will be managed as biomedical waste after they have been released from the licensee; and
  - C. Maintains records of the disposal of licensed materials for 3 years. The record must include the date of the disposal, the survey instrument used, the background radiation level, the radiation level measured at the surface of each waste container, and the name of the individual who performed the disposal.
21. The licensee shall not transfer possession and/or control of materials or products containing licensed material as a contaminant except:
- A. By transfer of waste to an authorized recipient; or
  - B. By transfer to a specifically licensed recipient.
22. The licensee may transport licensed material or deliver licensed material to a carrier for transport in accordance with the provisions of R313-19-100 "Transportation."
23. The licensee shall maintain records of information important to safe and effective decommissioning at the location specified in Condition 10 of this license in accordance with the provisions of R313-22-35(7) until this license is terminated by the Executive Secretary.
24. 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 R313-22-35(4) for establishing decommissioning financial assurance.
25. The licensee shall notify the Division in writing when the licensee decides to permanently discontinue activities in Utah involving materials authorized under the license, and report to the Division the disposition of the material.
26. Except as specifically provided otherwise, by 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 Utah Radiation Control Rules shall govern unless the statements, representations, and procedures in the licensee's application and correspondence are more restrictive than the rules.
- A. Application dated April 9, 2007 [LA# 109-2007]
  - B. Facsimile transmittals dated September 26, 2007 (Two facsimile transmittals) [LA# 109-2007]

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C. Letter dated November 19, 2008 [LA# 392-2008]

UTAH RADIATION CONTROL BOARD

Jan. 21, 2009  
Date

Dane L. Finerfrock  
Dane L. Finerfrock, Executive Secretary