

RADIOACTIVE MATERIAL LICENSE

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Pursuant to the California Code of Regulations, Division 1, Title 17, Chapter 5, Subchapter 4, Group 2, Licensing of Radioactive Material, and in reliance on statements and representations heretofore made by the licensee, a license is hereby issued authorizing the licensee to receive, use, possess, transfer, or dispose of radioactive material listed below; and to use such radioactive material for the purpose(s) and at the places(s) designated below. This license is subject to all applicable rules, regulations, and orders of the Department of Health Services now or hereafter in effect and to any standard or specific condition specified in this license.

1. Licensee	Eberline Services, Inc.	3. License Number	0023-07	Amendment Number: 47
2. Address	2030 Wright Avenue Richmond, CA 94804	4. Expiration date	June 29, 2009	(3)
Attention:	Lawrence A. Johnson Radiation Safety Officer	5. Inspection agency	Radiologic Health Branch Berkeley	

In response to the letter dated August 13, 2003, signed by L.A. Johnson and F.J. Garcia, License Number 0023-07 is hereby amended as follows:

6. Nuclide	7. Form	8. Possession Limit
A. Hydrogen-3	A. Any	A. Not to exceed 10 Curies.
B. Any radionuclide with atomic number 1-83.	B. Any	B. Not to exceed 10 ⁴ times schedule A for any one radionuclide; total not to exceed 10 Curies.
C. Any radionuclide with atomic number 1-83	C. Sealed sources	C. Not to exceed 100 millicuries total.
D. Any radionuclide with atomic number 84-105, except; (1) Source material (2) Special nuclear material (SNM)	D. Any	D. Not to exceed 1 millicurie.
E. Any radionuclide with atomic number 84-105, except; (1) Source material (2) Special nuclear material (SNM)	E. Sealed sources	E. Not to exceed 100 millicuries total.
F. Source material	F. Any	F. Not to exceed 1 pound total.
G. Special nuclear material (SNM)	G. Any	G. Not to exceed 50 grams total.

9. Authorized Use

A - G To be used incidental to the receipt of samples for radiochemical analysis and for research and development of laboratory radiochemical procedures.

LICENSE CONDITIONS

10. Radioactive material shall be used only at the following location:

(a) 2030 Wright Avenue, Richmond, CA

11. This license is subject to an annual fee for sources of radioactive material authorized to be possessed at any one time as specified in Items 6, 7, 8 and 9 of this license. The annual fee for this license is required by and computed in accordance with Title 17, California Code of Regulations, Sections 30230-30232 and is also subject to an annual cost-of-living adjustment pursuant to Section 100425 of the California Health and Safety Code.

12. Radioactive material shall be used by, or under the supervision of, the following individuals:

- (a) Lawrence A. Johnson
- (b) Katsumi Yamamoto
- (c) Teresita S. Cruz

- (d) Cesar S. Sangalang
- (e) Michael W. Thorn

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13. Except as specifically provided otherwise by this license, the licensee shall possess and use radioactive material described in Items 6, 7, 8 and 9 of this license in accordance with the statements, representations, and procedures contained in the documents listed below. The Department's regulations shall govern unless the statements, representations, and procedures in the licensee's application and correspondence are more restrictive than the regulations.
 - (a) The renewal application dated April 1, 1997 signed by Facundo J. Garcia with attachments thereto, as modified by the letters with attachments dated April 28, 1999, September 3, 1999, and November 5, 1999, and the letter dated November 17, 1999, all signed by L. A. Johnson.
 - (b) The letter dated January 14, 2000, signed by L.A. Johnson, with attachments thereto, regarding updated copies of the Radiation Safety Manual and the Radiation Safety Procedures Manual.
 - (c) The letters with attachments dated January 23, 2002 and July 22, 2002, both signed by L. A. Johnson, regarding release of storage structure for unrestricted use.
14.
 - (a) The Radiation Safety Officer in this program shall be Lawrence A. Johnson.
 - (b) The Chairperson of the Radiation Safety Committee shall be Lawrence A. Johnson.
 - (c) The Alternate Radiation Safety Officer in this program shall be **Katsumi Yamamoto**.
15. Sealed sources possessed under this license shall be tested for leakage and/or contamination as required by Title 17, California Code of Regulations, Section 30275 (c).
16. Quantitative analytical assays for the purpose of tests for leakage and/or contamination of sealed sources shall be performed only by persons specifically authorized to perform that service.
17. The following individuals are authorized to collect wipe test samples of sealed sources possessed under this license using leak test kits acceptable to the California Department of Health Services:
 - (a) The Radiation Safety Officer
 - (b) Qualified individuals designated in writing by the Radiation Safety Officer
18. Records of leak test results shall be kept in units of microcuries and maintained for inspection. Records may be disposed of following Department inspection. Any leak test revealing the presence of 0.005 microcuries or more of removable radioactive material shall be reported to the Department of Health Services, Radiologic Health Branch, MS 7610, P.O. Box 997414, Sacramento, CA 95899-7414, within five days of the test. This report shall include a description of the defective source or device, the results of the test, and the corrective action taken.
19. No plutonium, regardless of form, shall be transported by air or delivered to a carrier for air transport unless:
 - (a) The plutonium is contained in a medical device designed for individual human application; or
 - (b) The plutonium is contained in a material in which the specific activity is not greater than 0.002 microcuries per gram of material and in which the radioactivity is essentially uniformly distributed; or
 - (c) The plutonium is shipped in a single package containing no more than A₂ quantity of plutonium as listed in Appendix A of 10 CFR 71, and shipped in accordance with 10 CFR 71.5; or
 - (d) The plutonium is shipped in a package specifically authorized for the shipment of plutonium by air. A Certificate of Compliance for that package issued by the U.S. Nuclear Regulatory Commission is required.

Prepared By: <i>Rene Obear</i>	Reviewed By: <i>Zubaida Gulshan</i>	Issued For the Department of Health Services By: <i>Gary Butner</i>
Printed Name: Rene' Obear	Printed Name: Zubaida Gulshan	Printed Name: Gary Butner
Date: <i>11/4/03</i>	Radiologic Health Branch, MS 7610, P.O. Box 997414, Sacramento, CA 95899-7414	