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MATERIALS LICENSE

Amendment No. 6

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.

DL-120396-04

Licensee		In accordance with letter dated October 21, 1991	
1. Commonwealth of Virginia Department of General Services		3 License Number	45-16459-01
		is amended in its entirety to read as follows:	
2. Division of Forensic Science Tidewater Laboratory 401-A Colley Avenue Norfolk, Virginia 23507		4 Expiration Date	May 31, 2001 (Extended)
		5 Docket or Reference No	030-11083
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. Any chemical or physical form pre-labeled by the manufacturer.	A.	30 millicuries
B. Nickel 63	B. Plated sources (Hewlett-Packard Model No. 18713-A detector cells)	B.	30 millicuries. Not to exceed 15 millicuries per source.

9. Authorized Use:

- A. For possession and use in sample analysis by phosphorus 32 labeled DNA tracer techniques.
- B. For possession and use in gas chromatographs for sample analysis.

CONDITIONS

- 10. A. Licensed materials listed in Item 7.A shall be used only at the licensee's facilities located at 401-A Colley Avenue, Norfolk, Virginia and at the DNA Unit, Central Laboratory, Division of Forensic Science, Seaboard Building, 1501 Franklin Street, Richmond, Virginia.
- B. Licensed materials listed in Item 7.B shall be used only at the licensee's facilities located at 401-A Colley Avenue, Norfolk, Virginia.

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(continued)

CONDITIONS

11. A. Licensed material described in License Item 7.A shall be used by, or under the supervision of, Robert J. Campbell or George C. Li.
- B. Licensed material described in License Item 7.B shall be used by, or under the supervision of, Robert L. Fitzgerald, Ph.D.
- C. The Radiation Safety Officer for this license is Robert J. Campbell.
12. In lieu of using the conventional radiation caution colors (magenta or purple on yellow background) as provided in 10 CFR, Part 20.203(a)(1), the licensee is hereby authorized to label detector cells and cell baths, containing licensed material and used in gas chromatography devices, with conspicuously etched or stamped radiation caution symbols without a color requirement.
13. A. The detector cells specified in Item 7.B shall be tested for leakage and/or contamination at intervals not to exceed six months. Any detector cell received from another person which is not accompanied by a certificate indicating that a test was performed within six months before the transfer shall not be put into use until tested.
- B. Any detector cell in storage and not being used need not be tested. When the detector cell is removed from storage for use or transfer to another person, it shall be tested before use or transfer.
- C. The test shall be capable of detecting the presence of 0.005 microcurie of radioactive material on the test sample. The sample shall be taken from the surfaces of the device in which the foil is mounted or stored on which one might expect contamination to accumulate. If the test reveals the presence of 0.005 microcurie or more of removable contamination, the source shall be removed from service and decontaminated, repaired, or disposed of in accordance with Commission regulations. A report shall be filed within 5 days of the date the leak test result is known with the U.S. Nuclear Regulatory Commission, Region II, Division of Nuclear Materials Safety, Nuclear Materials Licensing/Inspection Branch, 101 Marietta Street, N.W., Suite 2900, Atlanta, Georgia, 30323. The report shall specify the detector cell involved, the test results, and the corrective actions taken. Records of leak test results shall be kept in units of microcuries and shall be maintained for inspection by the Commission. Records may be disposed of following Commission inspection.
- D. The licensee is authorized to collect leak test samples for analysis by the OSHA and Radiation Section, Bureau of Chemistry, Virginia Division of Consolidated Laboratory Services or tests for leakage and/or contamination shall be performed by persons specifically licensed by the Commission or an Agreement State to perform such services.
14. The licensee shall not open detector cells containing licensed material or remove the foil sources from the detector cell.
15. The licensee shall conduct a physical inventory every 6 months to account for all detector cells received and possessed under the license. Records of inventories shall be maintained for 2 years from the date of the inventory.

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(continued)

CONDITIONS

16. The licensee shall maintain records of information important to safe and effective decommissioning at the licensee's facility located 401-A Colley Avenue, Norfolk, Virginia in accordance with the provisions of 10 CFR, Part 30.35(g) until this license is terminated by the Commission.
17. Licensed material shall not be used in or on human beings or in products distributed to the public.
18. The licensee is authorized to hold radioactive material with a physical half-life of less than 65 days for decay-in-storage before disposal in ordinary trash provided that:
- A. Radioactive waste to be disposed of in this manner shall be held for a minimum of ten half-lives.
 - B. Before disposal as normal waste, radioactive waste shall be surveyed to determine that its radioactivity cannot be distinguished from background. All radiation labels shall be removed or obliterated.
 - C. The licensee shall maintain a record of all radioactive waste disposed of by decay-in-storage. The record shall include the date of disposal, the date the waste was placed into storage, the radionuclides disposed, the survey instrument used, the background radiation dose rate, and the radiation dose rate at the surface of each waste container.
19. 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 Nuclear Regulatory Commission's regulations shall govern unless the statements, representations, and procedures contained in the licensee's application and correspondence are more restrictive than the regulations.
- A. Application dated March 16, 1990
 - B. Letter dated May 20, 1991
 - C. Letter dated October 21, 1991
 - D. NRC letter dated March 1, 1996 (Extends expiration date in accordance with 10 CFR 30.36)

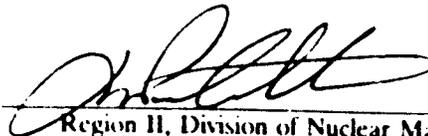
FOR THE U.S. NUCLEAR REGULATORY COMMISSION

JOHN M. PELCHAT

Date

DEC 03 1998

By

Region II, Division of Nuclear Materials Safety
101 Marietta Street, N.W., Suite 2900
Atlanta, Georgia 30323