

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.

Licensee		
1. Technical Alternatives		3. License number 21-35058-01
2. 4220 Varsity Dr. Suite C Ann Arbor, MI 48108		4. Expiration date July 31, 2023
		5. Docket No. 030-38635 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. Cesium-137	A. Sealed Sources	A. No single source to exceed 40 microcuries. 800 microcuries total
B. Barium-133	B. Sealed Sources	B. No single source to exceed 20 microcuries. 400 microcuries total
C. Europium-152	C. Sealed Sources	C. No single source to exceed 20 microcuries. 400 microcuries total
D. Radium-226	D. Sealed Sources	D. No single source to exceed 20 microcuries. 400 microcuries total

9. Authorized use:

A. Through D. For use and/or possession incident to:

- (1) Installation into or removal from liquid scintillation counters or gamma counters manufactured by Beckman Coulter Instruments, Packard Instrument Company, Perkin Elmer Life Sciences and Wallac Instruments.
- (2) redistribution of liquid scintillation counters and gamma counters containing sealed sources manufactured by Beckman Coulter Instruments, Packard Instrument Company, Perkin Elmer Life Sciences and Wallac Instruments to specific licensees.
- (3) Repair, refurbishing, testing and calibration of liquid scintillation counters or gamma counters containing sealed sources manufactured by Beckman Coulter Instruments, Packard Instrument Company, Perkin Elmer Life Sciences and Wallac Instruments.

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SUPPLEMENTARY SHEET**License Number
21-35058-01Docket or Reference Number
030-38635CONDITIONS

10. License material may be used and stored at 4220 Varsity Drive, Ann Arbor, Michigan and may be used at temporary jobsites of the licensee anywhere in the United States where the U.S. Nuclear Regulatory Commission maintains jurisdiction for regulating the use of licensed material.
11. The Radiation Safety Officer for this license is David Westfall.
12. Licensed material shall be used by, or under the supervision of David Westfall.
13. Sealed sources containing licensed material shall not be opened.
14. The licensee shall conduct a physical inventory every six months to account for all sealed sources and/or devices received and possessed under this license.
15. This license does not authorize distribution to persons exempt from licensing.
16. The licensee may transport licensed material in accordance with the provisions of 10 CFR Part 71, 'Packaging and Transportation of Radioactive Material'.
17. Licensed material shall not be used in or on human beings.
18. The licensee shall perform repairs and other servicing of devices in accordance with the manufacturer's recommendations.
19. Except for maintaining labeling as required by 10 CFR Part 20, or 71, the licensee shall obtain authorization from the U.S. Nuclear Regulatory Commission before making any changes in the sealed source, device or source device combination that would alter the description or specifications as indicated in the respective certificate of registration issued either by the Commission pursuant to 10 CFR 32.210 or by an Agreement State.

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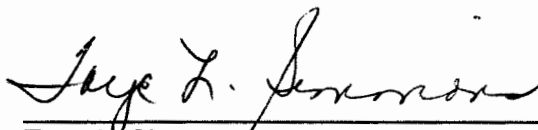
20. Except as specifically provided otherwise in this license, the licensee shall conduct its program in accordance with the statements, representations, and procedures contained in the documents, including any enclosures, listed below. The Nuclear Regulatory Commission's regulations shall govern unless the statements, representations, and procedures in the licensee's application and correspondence are more restrictive than the regulations.

- A. Application dated April 1, 2013; and
- B. Letter received June 19, 2013.

FOR THE U.S. NUCLEAR REGULATORY COMMISSION

Date JUL 08 2013

By



Toye L. Simmons
Materials Licensing Branch
Region III