

U.S. NUCLEAR REGULATORY COMMISSION

Amendment No. 05**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, 37, 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.

<p>Licensee</p> <p>1. Sharon L. Long Consulting</p> <p>2. 1296 Russell Drive Bolivar, OH 44612</p>	<p>In accordance with the letter dated May 15, 2015,</p> <p>3. License number 34-26655-02 is amended in its entirety to read as follows:</p> <p>4. Expiration date September 30, 2015</p> <p>5. Docket No. 030-35067 Reference No.</p>	
<p>6. Byproduct, source, and/or special nuclear material</p> <p>A. Any byproduct material with atomic number 3-83, or 95</p> <p>B. Any byproduct material with atomic number 3-83, or 95</p> <p>C. Cesium-137</p> <p>D. Barium-133</p> <p>E. Technetium-99m</p>	<p>7. Chemical and/or physical form</p> <p>A. Leak test samples</p> <p>B. Sealed sources which have been evaluated and approved by the Commission in accordance with 10 CFR 32.210 or equivalent Agreement State requirements.</p> <p>C. Sealed sources (New England Nuclear Model Nos. NES-356, NES-360, or NES-367)</p> <p>D. Sealed sources (New England Nuclear Model Nos. NES-358 or NES-367)</p> <p>E. Any</p>	<p>8. Maximum amount that licensee may possess at any one time under this license</p> <p>A. Not to exceed 10 millicuries per leak/wipe sample and 100 millicuries total except as specified in condition 20</p> <p>B. No single source to exceed 0.1 millicurie. Total possession not to exceed 1.0 millicurie</p> <p>C. No single source to exceed 250 microcuries. Total possession not to exceed 1.0 millicurie</p> <p>D. No single source to exceed 300 microcuries. Total possession not to exceed 1.0 millicurie</p> <p>E. 500 millicuries</p>

9. Authorized Uses:

- A. Possession incident to the performance of tests for leakage and/or contamination on sealed sources and devices containing licensed material.
- B. through D. To be used for instrument calibration and testing.
- E. To be used for instrument calibration and testing for shielding evaluations.

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10. A. Tests for leakage and/or contamination may be performed at temporary job sites of the licensee anywhere in the United States where the U.S. Nuclear Regulatory Commission maintains jurisdiction for regulating the use of licensed material. Analysis of leak test samples may be performed at temporary job sites of the licensee anywhere in the United States where the U.S. Nuclear Regulatory Commission maintains jurisdiction for regulating the use of licensed material.
- B. Licensed material listed in Subitem Nos. 6.B. through 6.D. may be used at temporary job sites 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. Licensed material shall be used by, or under the supervision of, Sharon L. Long, David Close, C. Kelly Stoneberg, and Adam Springer, M.S.
12. The Radiation Safety Officer for this license is **Sharon L. Long**.
13. A. Sealed sources shall be tested for leakage and/or contamination at intervals not to exceed 6 months or at such other intervals as specified by the certificate of registration referred to in 10 CFR 32.210.
- B. In the absence of a certificate from a transferor indicating that a leak test has been made within 6 months prior to the transfer, a sealed source received from another person shall not be put into use until tested.
- C. Sealed sources need not be leak tested if they contain not more than 100 microcuries of beta and/or gamma emitting material or are in storage, and are not being used. However, when they are removed from storage for use or transferred to another person, and have not been tested within the required leak test interval, they shall be tested before use or transfer. No sealed source shall be stored for a period of more than 10 years without being tested for leakage and/or contamination.
- D. The leak test shall be capable of detecting the presence of 0.005 microcurie (185 becquerels) of radioactive material on the test sample. If the test reveals the presence of 0.005 microcurie (185 becquerels) or more of removable contamination, a report shall be filed with the U.S. Nuclear Regulatory Commission in accordance with 10 CFR 30.50(c)(2), and the source shall be removed immediately from service and decontaminated, repaired, or disposed of in accordance with Commission regulations.
- E. Tests for leakage and/or contamination shall be performed by the licensee or by other persons specifically licensed by the Commission or an Agreement State to perform such services.
- F. Records of leak test results shall be kept in units of microcuries and shall be maintained for 3 years.

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14. The licensee shall conduct a physical inventory every 6 months to account for all sources and/or devices received and possessed under the license. **Records of inventories shall be maintained for 5 years from the date of each inventory and shall include the radionuclides, quantities, manufacturer's name and model numbers and the date of the inventory.**
15. Sealed sources containing licensed material shall not be opened or sources removed from source holders by the licensee.
16. The licensee is authorized to transport licensed material only in accordance with the provisions of 10 CFR Part 71, "Packaging and Transportation of Radioactive Material."
17. 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 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.
18. Licensed material shall not be used in or on human beings.
19. The licensee shall develop, maintain and implement procedures for obtaining an agreement with customers, outlining the responsibilities of both the customer and service provider, when performing service operations at customer's facility.

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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 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. Application dated July 1, 2005;
 - B. Facsimile dated September 1, 2005, with attachment dated September 1, 2005; and,
 - C. Letters dated October 22, 2013, and January 18, 2014 (with attachments).

FOR THE U.S. NUCLEAR REGULATORY COMMISSION

Date JUN 11 2015By Colleen Carol Casey
Colleen Carol Casey
Materials Licensing Branch
Region III