

**MATERIALS LICENSE****Corrected Copy**

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.

<p>Licensee</p> <p>1. Smith and Company</p> <p>2. P.O. Box 72 Poplar Bluff, MO 63902-0072</p>	<p>In accordance with application dated April 12, 2002,</p> <p>3. License number 24-18711-03 is renewed in its entirety to read as follows:</p> <p>4. Expiration date June 30, 2012</p> <p>5. Docket No. 030-32734 Reference No.</p>	
<p>6. Byproduct, source, and/or special nuclear material</p> <p>A. Cesium-137</p> <p>B. Americium-241</p> <p>C. Cesium-137</p>	<p>7. Chemical and/or physical form</p> <p>A. Sealed sources registered either with NRC under 10 CFR 32.210 or with an Agreement State and incorporated in a compatible gauging device as specified in Item 9 of this license.</p> <p>B. Sealed sources registered either with NRC under 10 CFR 32.210 or with an Agreement State and incorporated in a compatible gauging device as specified in Item 9 of this license.</p> <p>C. Sealed sources registered either with NRC under 10 CFR 32.210 or with an Agreement State and incorporated in a compatible gauging device as specified in Item 9 of this license.</p>	<p>8. Maximum amount that licensee may possess at any one time under this license</p> <p>A. No single source to exceed the maximum activity specified in the certificate of registration issued by the NRC or an Agreement State. Total activity not to exceed 90 millicuries.</p> <p>B. No single source to exceed the maximum activity specified in the certificate of registration issued by the NRC or an Agreement State. Total activity not to exceed 440 millicuries.</p> <p>C. No single source to exceed the maximum activity specified in the certificate of registration issued by the NRC or an Agreement State. Total activity not to exceed 110 millicuries.</p>

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**Corrected copy****D. Americium-241****D. Sealed sources registered either with NRC under 10 CFR 32.210 or with an Agreement State and incorporated in a compatible gauging device as specified in Item 9 of this license.****D. No single source to exceed the maximum activity specified in the certificate of registration issued by the NRC or an Agreement State. Total activity not to exceed 440 millicuries.****E. Cesium-137****E. Sealed sources registered either with NRC under 10 CFR 32.210 or with an Agreement State and incorporated in a compatible gauging device as specified in Item 9 of this license.****E. No single source to exceed the maximum activity specified in the certificate of registration issued by the NRC or an Agreement State. Total activity not to exceed 50 millicuries.****F. Americium-241****F. Sealed sources registered either with NRC under 10 CFR 32.210 or with an Agreement State and incorporated in a compatible gauging device as specified in Item 9 of this license.****F. No single source to exceed the maximum activity specified in the certificate of registration issued by the NRC or an Agreement State. Total activity not to exceed 250 millicuries.****9. Authorized Use:****A. and B. To be used in Troxler Electronic Laboratories Model 3400 Series portable gauges for measuring physical properties of materials.****C. and D. To be used in Humboldt Scientific, Inc., Model 5001 portable gauges for measuring physical properties of materials.****E. and F. To be used in Campbell Pacific Nuclear Model MC Series portable gauges for measuring physical properties of materials.****CONDITIONS****10. Licensed material may be stored at 901 Vine Street, Poplar Bluff, Missouri and 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 and in the physical presence of, individuals who have received the training described in the application dated April 12, 2002.**

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12. The Radiation Safety Officer for this license is Dan E. Klaproth.
13. A. Sealed sources shall be tested for leakage and/or contamination at intervals not to exceed the intervals specified in the certificate of registration issued by NRC under 10 CFR 32.210 or by an Agreement State.
- B. In the absence of a certificate from a transferor indicating that a leak test has been made within the intervals specified in the certificate of registration issued by NRC under 10 CFR 32.210 or by an Agreement State prior to the transfer, a sealed source or detector cell received from another person shall not be put into use until tested.
- C. Sealed sources need not be tested if they 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 persons specifically licensed by the Commission or an Agreement State to perform such services. In addition, the licensee is authorized to collect leak test samples but not perform the analysis: analysis of leak samples must be performed by 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.
14. Sealed sources or source rods containing licensed material shall not be opened or sources removed or detached from source rods or gauges by the licensee, except as specifically authorized.
15. When performing tests at temporary job sites, the authorized user shall not leave the moisture/density gauge unattended. Upon completion of tests the device shall be locked in the licensee's vehicle or a secure building to prevent unauthorized use, loss or theft.
16. 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 2 years from the date of each inventory.
17. The licensee may transport licensed material in accordance with the provisions of 10 CFR Part 71, "Packaging and Transportation of Radioactive Material."

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18. Except for maintaining labeling as required by 10 CFR Part 20 or 71, the licensee shall obtain authorization from NRC 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 Certificates of Registration issued either by the Commission pursuant to 10 CFR 32.210 or by an Agreement State.
19. **Each portable nuclear gauge shall have a lock or outer locked container designed to prevent unauthorized or accidental removal of the sealed source from its shielded position. The gauge or its container must be locked when in transport. A minimum of two independent physical controls that form tangible barriers to secure portable gauges from unauthorized removal whenever the portable gauge is not under the control and constant surveillance of the licensee are required.**
20. The licensee may detach the source rod from gauges for the purposes of cleaning, maintenance, or repair of the gauge(s) in accordance with procedures outlined in facsimile dated June 5, 2002.
21. 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 12, 2002; and
- B. Facsimile dated June 5, 2002.

FOR THE U.S. NUCLEAR REGULATORY COMMISSION

Date JUL 25 2011By William P. Reichhold  
William P. Reichhold  
Materials Licensing Branch  
Region III