

U.S. NUCLEAR REGULATORY COMMISSION

**MATERIALS LICENSE**

Amendment No. 02

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 style="text-align: center;">Licensee</p> <p>1. Solar Testing Laboratories, Inc.</p> <p>2. 1125 Valley Belt Road Brooklyn Heights, OH 44131</p>	<p>In accordance with letter received <b>January 3, 2008,</b></p> <p>3. License number 34-16119-04 is amended in its entirety to read as follows:</p> <hr/> <p>4. Expiration date June 30, 2009</p> <hr/> <p>5. Docket No. 030-35130 Reference No.</p>
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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 source (Troxler Dwg. No. A-102112)	A. No single source to exceed 10 millicuries
B. Americium-241	B. Sealed source (Troxler Dwg. No. A-102451)	B. No single source to exceed 50 millicuries
C. Cesium-137	C. Sealed source (Humbolt's Model HSI Dwg. 2200064)	C. No single source to exceed 11 millicuries
D. Americium-241	D. Sealed source (Humbolt's Model HSI Dwg. 2200067)	D. No single source to exceed 44 millicuries
E. Americium-241	E. Sealed source (Troxler Dwg. No. A-100337 or A-100608)	E. No single source to exceed 300 millicuries

9. Authorized Use:

A. and B. To be used in Troxler Model 3400 Series surface moisture/density gauges.

C. and D. To be used in Humbolt's Model 5001 Series moisture/density gauges.

E. To be used in Troxler Model 3241 Series asphalt content gauges.

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CONDITIONS

10. **Licensed material may be used anywhere in the United States where the U.S. Nuclear Regulatory Commission maintains jurisdiction.**
11. The Radiation Safety Officer for this license is David Snethkamp.
12. Licensed material shall only be used by, or under the supervision and in the physical presence of, individuals who have received the training described in application dated November 20, 1995 and have been approved in writing by the Radiation Safety Officer. The licensee shall maintain records of individuals designated as users for five years following the last use of licensed material by the individual.
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 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. The licensee is authorized to collect leak test samples for analysis by Troxler or Campbell Pacific. Alternatively, tests for leakage and/or contamination may be performed by persons specifically licensed by the Commission or an Agreement State to perform such services.
14. Sealed sources containing licensed material shall not be opened or sources removed from source holders by the licensee.
15. 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.

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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 5 years from the date of each inventory, and shall include the quantities and kinds of byproduct material, manufacturer's name and model numbers, location of the sources and/or devices, and the date of the inventory.
17. 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."
18. **Any cleaning, maintenance, or repair of the gauge(s) that requires removal of the source rod shall be performed only by the manufacturer or by other persons specifically licensed by the Commission or an Agreement State to perform such services.**
19. In addition to the possession limits in Condition 8, the licensee shall further restrict the possession of licensed material to quantities below the minimum limit specified in 10 CFR 30.35(d) for establishing decommissioning financial assurance.
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. Applications dated June 15, 1983, June 22, 1993; and
- B. Letters dated July 8, 1983, August 2, 1983, November 20, 1995, August 26, 1996 and November 15, 1996.

FOR THE U.S. NUCLEAR REGULATORY COMMISSION

Date MAR 31 2008

By

Toye L. Simmons  
Materials Licensing Branch  
Region III