

**OFFICIAL RECORD COPY MATERIALS LICENSE**

Amendment No. 8

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-070996-07

<p style="text-align: center;"><b>Licensee</b></p> <p>1. Law Engineering, Inc.</p> <p>2. 804 Professional Place West Chesapeake, Virginia 23320</p>	<p>in accordance with the application dated April 2, 1996</p> <p>3. License Number 45-18377-01</p> <p>is amended in its entirety to read as follows:</p> <hr/> <p>4. Expiration Date May 31, 2005 (extended)</p> <hr/> <p>5. Docket or Reference No. 030-14949</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 registered pursuant to 10 CFR 32.210 or an equivalent Agreement State regulation	A. No single source to exceed 407 MBq (11 millicuries)
B. Americium 241	B. Sealed neutron source registered pursuant to 10 CFR 32.210 or an equivalent Agreement State regulation	B. No single source to exceed 185 GBq (50 millicuries)

9. Authorized Use:

A. and B. To be used, for measurement purposes, in portable gauging devices that have been registered with NRC under 10 CFR 32.210 or with an Agreement State, and have been distributed in accordance with an NRC or Agreement State Specific license authorizing distribution to persons specifically authorized by an NRC or Agreement State license to receive, possess, and use the devices.

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CONDITIONS

- 10. Licensed material may be received, possessed and used at the licensee's facilities located at 804 Professional Place West, Chesapeake, Virginia and 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. The Radiation Protection Officer for this license is Walter L. Weeks.

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**MATERIALS LICENSE  
SUPPLEMENTARY SHEET**

License Number 45-18377-01

Docket or Reference Number 190-14949

Amendment No. 8

## CONDITIONS

(Continued)

12. Licensed material shall be used by, or under the supervision and in the physical presence of Walter L. Weeks, K.L. Perry, J.P. McManus, T. Ribble, C.F. Crawley, William B. Horstman, or individuals who have been trained in the licensee's standard operating and emergency procedures and have satisfactorily completed at least one of the following:
- A. The device manufacturer's training course for safe use and handling of portable gauging devices containing licensed material, or
  - B. A portable gauge training program conducted in accordance with the provisions of an NRC or Agreement State license.
13. Sealed sources containing licensed material shall not be opened or removed from the gauging device by the licensee.
14. 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 or detector cell 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 of radioactive material on the test sample. If the test reveals the presence of 0.005 microcurie or more of removable contamination, a report shall be filed with the U.S. Nuclear Regulatory Commission in accordance with 10 CFR 30.50(b)(2), and the source shall be removed immediately from service and decontaminated, repaired, or disposed of in accordance with Commission regulations. The 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 Material Safety, 101 Marietta Street, N.W., Suite 2900, Atlanta, Georgia 30323-0199. The report shall specify the source involved, the test results, and corrective action taken.
- E. The licensee is authorized to collect leak test samples for analysis by Troxler Electronic Laboratories or Campbell Pacific Nuclear. 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.
15. The licensee may transport licensed material in accordance with the provisions of 10 CFR Part 71, "Packaging and Transportation of Radioactive Material."
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.

**MATERIALS LICENSE  
SUPPLEMENTARY SHEET**

License Number 45-18377-01

Docket or Reference Number 50-14949

Amendment No. 8

**CONDITIONS**

(Continued)

- 17. The licensee shall maintain records of information important to safe and effective decommissioning at location specified in Condition 10 pursuant to the provisions of 10 CFR 30.35(g) until this license is terminated by the Commission.
- 18. In addition to the possession limits in Item 8, the licensee shall further restrict the possession of licensed material to quantities below the minimum specified 10 CFR 30.35(d) for establishing decommissioning financial assurance.
- 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, storage or when not under the direct surveillance of an authorized user.~~
- 20. 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.
- 21. 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.
- 22. The licensee shall not use sealed sources or probes containing sealed sources at depths exceeding 3 feet below the surface.
- 23. 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 September 29, 1994
  - B. Letters dated:
    - 1. April 17, 1995 (Additional renewal information)
    - 2. April 29, 1996 (Request to change RSO)
    - 3. June 18, 1996 (Additional information regarding training and experience of new RSO); and Extension of expiration date in accordance with 10 CFR 30.36)

FOR THE U.S. NUCLEAR REGULATORY COMMISSION

EARL G. WRIGHT

DATE JUL 09 1996

BY Earl G. Wright

Region II, Division of Nuclear Materials Safety  
101 Marietta Street, N.W., Suite 2900  
Atlanta, Georgia 30323-0199

*Handwritten:* 9/11/96