NRC	FORM	1 374
INIC		3/4

## U.S. NUCLEAR REGULATORY COMMISSION

PAGE	11	OF	4	_ PAG	GES
	Am	end	ment	No	08

## MATERIALS LICENSE

Federal Regulations, Chapter I, Parts 30, heretofore made by the licensee, a license source, and special nuclear material desig deliver or transfer such material to persons shall be deemed to contain the conditions	31, 32, 33, 34, 35, 36, 39 is hereby issued authorizing nated below; to use such authorized to receive it in a specified in Section 183 of	9, 40, and 70, and ir ng the licensee to rece material for the purpo accordance with the re of the Atomic Energy	1974 (Public Law 93-438), and Title 10, Code of a reliance on statements and representations give, acquire, possess, and transfer byproduct, se(s) and at the place(s) designated below; to gulations of the applicable Part(s). This license act of 1954, as amended, and is subject to all reafter in effect and to any conditions specified		
Licensee		In accordance with letter dated			
		August 18, 2010 November 12, 2	0, and facsimile dated 2010,		
Indiana Department of Transportation		3. License number 13-26343-01 is amended in its			
Vincennes District		entirety to read as follows:			
2. 3650 South U.S. Highway 41		4. Expiration date August 31, 2012			
Vincennes, IN 47591		5. Docket No. 030-32465			
		Reference No.			
Byproduct, source, and/or special nuclear material	7. Chemical and/or ph	ysical form	Maximum amount that licensee may possess at any one time under this license		
A. Cesium-137	either with I 10 CFR 32. Agreement incorporate compatible	.210 or with an State and	A. No single source to exceed the maximum activity specified in the certificate of registration issued by NRC or an Agreement State. Total activity not to exceed 144 millicuries.		

B. Americium-241

- 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.
- B. No single source to exceed the maximum activity specified in the certificate of registration issued by NRC or an Agreement State. Total activity not to exceed 704

millicuries.

- Authorized Use: 9.
  - A. and B. To be used in Troxler Model 3400 series surface moisture/density gauging devices for measuring physical properties of materials.

## **CONDITIONS**

10. Licensed material may be stored at 3650 South U.S. Highway 41, Vincennes, Indiana, 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 letter dated August 26, 2002.
- **12.** A. The Radiation Safety Officer for this license is **Kevin Day**.
  - B. The Alternate Radiation Safety Officer for this license is Elliott Sturgeon.
- **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. Tests for leakage and/or contamination shall be performed by the licensee or other 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 for analysis by persons specifically licensed by the Commission or an Agreement State to perform such services.
  - G. 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**. 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.

- 16. 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.
- 17. 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.
- **18.** Any cleaning, maintenance, or repair of the gauges that requires detaching the source or source rod from the gauge shall be performed only by the manufacturer or other persons specifically licensed by the Commission or an Agreement State to perform such services.
- 19. A. If the licensee uses unshielded sealed sources extended more than 3 feet below the surface, the licensee shall use surface casing that extends from the lowest depth to 12 inches above the surface and other appropriate procedures to reduce the probability of the source or probe becoming lodged below the surface. If it is not feasible to extend the casing 12 inches above the surface, the licensee shall implement procedures to ensure that the cased hole is free of obstruction before making measurements.
  - B. If a sealed source or a probe containing sealed sources becomes lodged below the surface and it becomes apparent that efforts to recover the sealed source or probe may not be successful, the licensee shall notify the U. S. Nuclear Regulatory Commission and submit the report required by 10 CFR 30.50(b)(2) and (c). The licensee shall not abandon the sealed source or probe without obtaining the Commission's prior written consent.
- **20.** The licensee may transport licensed material in accordance with the provisions of 10 CFR Part 71, "Packaging and Transportation of Radioactive Material."

NRC FORM 374A	U.S. NUCLEAR REGULATORY COMMISSION		PAGE	4	of	4	PAGES
		License Number 13-26343-01					
MATERIALS LICENSE SUPPLEMENTARY SHEET	Docket or Reference Number 030-32465						
	Amendment No. 08						

- 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. Letter dated August 26, 2002.
  - B. Facsimile letters dated August 30, 2006, and November 12, 2010 (with attachments).

FOR THE U.S. NUCLEAR REGULATORY COMMISSION

Date \_\_\_ NOV 2 2 2010

y Colleen Carol Casey
Colleen Carol Casey
Materials Licensing Branch

Region III