NRC FORM 374

U.S. NUCLEAR REGULATORY COMMISSION

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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, 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.

and to any conditions specified below.								
Licensee	In accordance with letter dated June 16, 2011,							
Indiana Department of Transportation	3. License number 13-26341-01 is amended in its entirety to read as follows:							
2. 18 S. Broadway	4. Expiration date August 31, 2012							
Greenfield, IN 46140 5. Docket No. 030-32463 Reference No.								
Byproduct, source, and/or special nuclear material	nical and/or physical form 8. Maximum amount that licensee may possess at any one time under this license							
re NI 32 Aç in co de	A. No single source to exceed the maximum activity specified in the certificate of registration issued by NRC or an Agreement State and corporated in a possession limit of 200 millicuries. A. No single source to exceed the maximum activity specified in the certificate of registration issued by NRC or an Agreement State, total possession limit of 200 millicuries.							
re NI 32 Ag ind co de	B. No single source to exceed the maximum activity specified in the certificate of registration issued by NRC or an Agreement State and corporated in a possession limit of 1425 millicuries. B. No single source to exceed the maximum activity specified in the certificate of registration issued by NRC or an Agreement State total possession limit of 1425 millicuries.							
rei NF 32 Ag ind co de	called sources gistered either with RC under 10 CFR 2.210 or with an greement State and corporated in a mpatible gauging evice as specified in the certificate of registration issued by NRC or an Agreement State total possession limit of 60 microcuries.							

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9. Authorized use:

A., B., and C. To be used in Troxler Models 3241-C, 3400 Series, and 4430 gauges for measuring physical properties of materials.

CONDITIONS

- 10. Licensed material may be used and stored at 32 S. Broadway, Greenfield, Indiana, 845 West Main Street, Greenfield, 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. A. Licensed material shall be used by, or under the supervision and in the physical presence of, individuals who have satisfactorily completed the device manufacturer's training program or INDOT training program conducted by Frank Thomas John and have been designated by the licensee's Radiation Safety Officer. The licensee shall maintain records of the individuals who have been designated as authorized users.
 - B. The Radiation Safety Officer for this license is JoAnn McMillan.
- 12. 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(b)(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. The licensee is authorized to collect leak test samples for analysis by Troxler or tests for leakage and/or contamination shall be perform by persons specifically licensed by the Commission or an Agreement State to perform such services.

- 13. Sealed sources containing licensed material shall not be opened or removed from their respective source holders by the licensee. decommissioning financial assurance.
- 14. 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 gauge is not under the control and constant surveillance of the licensee are required.
- 15. The licensee shall conduct a physical inventory every 6 months, or at other intervals approved by NRC, 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. The licensee may transport licensed material in accordance with the provisions of 10 CFR Part 71, "Packaging and Transportation of Radioactive Material."
- 17. The licensee shall maintain records of information important to safe and effective decommissioning at the location listed in item 2 of this license per the provisions of 10 CFR 30.35(g) until this license is terminated by the Commission.
- 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 Item 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 commissioning financial assurance.
- 20. 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.
- 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.

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- A. Letter received February 13, 1992 and letters dated May 5, 1993 (with attachments), November 18, 2005 and February 15, 2006; and
- B. Applications received September 8, 1995 (with attachments) and March 5, 2002.

FOR THE U.S. NUCLEAR REGULATORY COMMISSION

James R. Mullauer, M.H.S. Materials Licensing Branch Region III