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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

Pursuant to the Atomic Energy Act of 1954, as amended, of Federal Regulations, Chapter I, Parts 30, 31, 32, 33, heretofore made by the licensee, a license is hereby issu source, and special nuclear material designated below; deliver or transfer such material to persons authorized to rishall be deemed to contain the conditions specified in Sapplicable rules, regulations, and orders of the Nuclear Fibelow.	34, 35, 36, 39, 40, and 70, and in ed authorizing the licensee to rece to use such material for the purposeceive it in accordance with the regrection 183 of the Atomic Energy A	n reliance on statements and representations ive, 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
(VC)0101		216029
Licensee	!	with letters dated
	1	and September 19, 2007,
Burns & McDonnell Engineering Company,	ļ.	r 24-26722-01 is amended in
	its entirety to re	
2. P.O. Box 419173		October 31, 2011
Kansas City, MO 64141-6173	5. Docket No. 030	0-34134
	Reference No.	
Byproduct, source, and/or special nuclear material T. Chemical	cal and/or physical form	Maximum amount that licensee may possess at any one time under this license
	Sealed Source (Troxler)	A. No single source to exceed 10 millicuries, total possessin limit of 20 millicuries.
	Sealed Source (Troxler) wg, No. A-102451)	B. No single source to exceed 50 millicuries, total possessin limit of 100 millicuries.
lı	ealed source (CPN) nternational, Inc., CPN Model CPN-131)	C. No single source to exceed 10 millicuries, total possessin limit of 10 millicuries.
į li	Sealed source (CPN nternational, Inc., CPN Model CPN-131)	 D. No single source to exceed 50 millicuries, total possessin limit of 50 millicuries.
9. Authorized Use:		

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

C. and D. To be used in CPN International Models MC Series and 500 Series portable moisture/density gauges.

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CONDITIONS

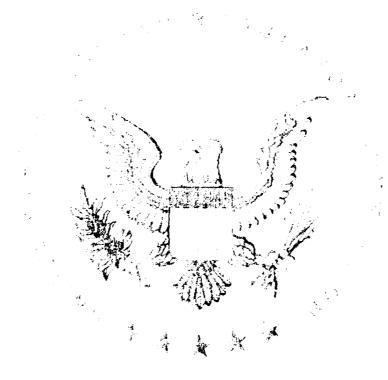
- 10. Licensed material may be stored at the licensee's facilities located at 9400 Ward Parkway, Kansas City, Missouri and may be used at temporary job sites of the licensee anywhere in the United States where the U.S. Nuclear Regulatory Commission maintains jurisdiction for regulating the use of licensed material.
- 11. The Radiation Safety Officer (RSO) for this license is Christopher J. Snider, P.E..
- 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 letter dated March 6, 1998.
- 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 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 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 stored before use or transfer. No sealed source shall be stored for a part 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 30.59(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. 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. 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.

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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.
- 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. 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 minimim 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.
- 19. 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.
- 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. A. If the licensee uses unshielded realed sources extended more than 3 feet below the surface, the licensee shall use surface cashe 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 lealed 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.

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- 22. 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. Application dated April 30, 2001 (with attachments).



FOR THE U.S. NUCLEAR REGULATORY COMMISSION

Date SEP **2 0** 2007

Loren I Huster

Materials Licensing Branch

Region III