

IOWA DEPARTMENT OF PUBLIC HEALTH

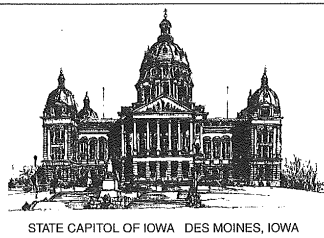
Page 1 of 3 Pages

## MATERIALS LICENSE

STATE CAPITOL OF IOWA DES MOINES, IOWA

Pursuant to Chapter 136C of the Iowa Code and 641-38 through 42 (136C) of the Iowa Administrative Code 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 radioactive materials 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 rules of the applicable chapter(s). This license is subject to all applicable rules and orders of the Iowa Department of Public Health including the Iowa Rules for Radiation Machines and Radioactive Materials [641-38 through 42] now or hereafter in effect, and to any conditions specified below.

<b>Licensee</b>		In accordance with the application dated March 5, 2007, License No.: 0006-1-85-PG is renewed to read as follows:	
1. Iowa Department of Transportation		3. <b>License Number:</b> 0006-1-85-PG	
2. 800 Lincoln Way Ames, Iowa 50010		4. <b>Expiration Date:</b> March 31, 2012	
5. Byproduct, Source, Special Nuclear and/or Natural Occurring or Accelerator Produced Radioactive Material	6. Chemical and/or Physical Form	7. Maximum Amount that Licensee May Possess At Any One Time Under This License	
A. Americium-241:Be	A. Sealed Source(s) (AEA Technology/QSA, Inc. model number AMNV.997, Isotope Products Laboratories model number 3021, 3027 and Aml.NO2)	A. No single source to exceed 44 millicuries	
B. Cesium-137	B. Sealed Source(s) (AEA Technology/QSA, Inc. model number CDCW556, Isotope Products Laboratories model number HEG-137)	B. No single source to exceed 9 millicuries	
C. Americium-241:Be	C. Sealed Source(s) (Troxler Dwg. Number A-102700)	C. No single source to exceed 10 millicuries	
D. Americium-241:Be	D. Sealed Source(s) (AEA Technology/QSA, Inc. model number AMNV.339)	D. No single source to exceed 330 millicuries	



Iowa Department of Public Health

Page 2 of 3 Pages

## MATERIALS LICENSE

Supplementary Sheet

License No. 0006-1-85-PG

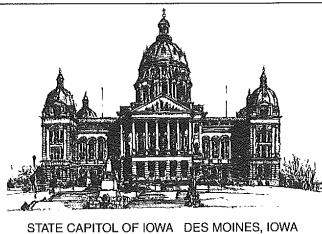
E. Americium-241:Be	E. Sealed Source(s) (Humboldt Scientific, Inc. model number 2200067)	E. No single source to exceed 44 millicuries
F. Cesium-137	F. Sealed Source(s) (Humboldt Scientific, Inc. model number 2200064)	F. No single source to exceed 11 millicuries

### 8. Authorized Use

- A. To be used in a Troxler, Model 3440 gauge to analyze moisture and density of materials.
- B. To be used in a Troxler, Models 1352, 3440 and 4640 gauges to analyze density of materials.
- C. To be used in a Troxler, Model 3321 gauge to analyze moisture of materials.
- D. To be used in a Troxler, Model 3241 gauge to analyze asphalt content.
- E. To be used in a Humboldt Scientific, Inc., Model 5001 Series gauge to analyze moisture and density of materials.
- F. To be used in a Humboldt Scientific, Inc., Model 5001 Series gauge to analyze moisture and density of materials.

### CONDITIONS

9. Licensed material shall be used and stored only at the licensee's facilities located at 800 Lincoln Way, Ames, Iowa or the District and Resident Offices listed in Item 10 of the application dated March 5, 2007, and may be used at temporary job sites of the licensee anywhere in the State of Iowa where the Iowa Department of Public Health maintains jurisdiction for regulating the use of licensed material.
10. 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 March 5, 2007 and have been approved in writing by the Radiation Safety Officer. The licensee shall maintain records of individuals designated as users for five (5) years following the last use of licensed material.
11. The Radiation Safety Officer is Paul Hockett.
12. When performing tests at temporary job sites, the authorized user shall not leave the nuclear gauge unattended. Upon completion of tests, the device shall be secured in the licensee's vehicle or a secure building to prevent loss, theft, or unauthorized use.



Iowa Department of Public Health

Page 3 of 3 Pages

## MATERIALS LICENSE

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License No. 0006-1-85-PG

13. A. 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 U.S. Nuclear Regulatory Commission or an Agreement State to perform such services.
- B. Source rod removal by the licensee shall only be performed by Steve Upchurch.
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, storage or when not under the direct surveillance of an authorized user.
15. The licensee is authorized to transport licensed material only in accordance with the provisions of 641-39.5(136C), "Packaging and Transportation of Radioactive Material."
16. The licensee shall conduct a physical inventory of all sealed sources received and possessed under the license at intervals not to exceed six (6) months and retain each inventory record for five (5) years. The inventory record shall contain the identity and estimated activity of each radionuclide, the model number of each source, and serial number if one has been assigned the location of each source, date of the inventory, and the signature of the Radiation Safety Officer.
17. 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 Iowa Department of Public Health's rules shall govern unless the statements, representations, and procedures in the licensee's application and correspondence are more restrictive than the rules.
- A. Application dated March 5, 2007 (with attachments).
- B. Letter dated March 23, 2007 (with attachments).

For the Iowa Department of Public Health

Date 4.2.07

By Randal S. Dahlin  
Randal S. Dahlin  
Radioactive Materials Program

Date 2 April - 2007

Concurrence Melanie Rasmussen  
Melanie Rasmussen, MBA, Chief  
Bureau of Radiological Health