



Facsimile Cover Sheet

To: James Mullaven
Company: NRC
Fax: 630-829-9873

From: Kevin D. Moyer
Company: ECS Illinois, LLC
1575 Barclay Boulevard
Buffalo Grove, IL 60089

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Date: 6-9-08

Pages including this cover: 10



Illinois Emergency Management Agency
Division of Nuclear Safety

Rod R. Blagojevich, Governor
Andrew Velasquez III, Director
Joseph G. Klinger, Assistant Director

January 25, 2008

Radioactive Material License
IL-02061-01

Brett Gitskin
Vice President
ECS Illinois, LLC
1575 Barclay Boulevard
Buffalo Grove, IL 60089

Dear Mr. Gitskin:

Enclosed is amendment number 10 to your License Number IL-02061-01. For your convenience, the changes are boldfaced on this license amendment. Note that your letter, with attachments dated December 22, 2006 in response to a management conference with the Agency applies to the newly added use/storage location, new authorized users, radiation safety program, etc. as amended on this license.

Please review the enclosed document carefully and be sure that you understand all conditions. You must conduct your program involving radioactive material in accordance with the conditions of your Illinois license, representations made in your license application, and Illinois regulations.

You must request and obtain an appropriate amendment if you plan to make any changes in your facility or program. Certain amendments require that a fee be assessed and paid to the Agency. If applicable, you will be billed in accordance with the requirements of 32 Ill. Adm. Code Part 331.120.

You will be inspected periodically by this agency. Failure to conduct your program in accordance with IEMA regulations and your license will result in enforcement action.

Thank you for your cooperation in this matter. When corresponding with this office, please refer to your License Number and ensure that all items are submitted in duplicate. If you have any questions, please contact Radioactive Materials Licensing at (217) 785-9947.

Sincerely,

Charles G. Vinson



CGV:SMK:kjc

Enclosure 1035 Outer Park Drive • Springfield, Illinois 62704-4462 • Telephone: (217)785-9900
www.iema.illinois.gov • Printed by the Authority of the State of Illinois on Recycled Paper • www.ready.illinois.gov



IDNS.FLM-004-01 (9/91)

STATE OF ILLINOIS
ILLINOIS EMERGENCY MANAGEMENT AGENCY
DIVISION OF NUCLEAR SAFETY
1035 OUTER PARK DRIVE
SPRINGFIELD, ILLINOIS 62704
(217) 785-9947

RADIOACTIVE MATERIAL LICENSE

Pursuant to the Illinois Radiation Protection Act and the rules and regulations in 32 Illinois Administrative Code promulgated thereunder, and in reliance on statements and representations heretofore made by the licensee, a license is hereby issued authorizing the licensee to receive, acquire, own, possess and transfer radioactive material(s) listed herein; and to use such radioactive material(s) for the purpose(s) and at the place(s) designated below. This license is subject to all applicable rules, regulations and orders of the Agency now or hereafter in effect and to any conditions specified in the license.

<u>LICENSEE</u>	<u>LICENSE NUMBER</u>	<u>EXPIRATION DATE</u>
ECS Illinois, LLC 1575 Barclay Boulevard Buffalo Grove, IL 60089	IL-02061-01	April 30, 2009
	<u>AMENDMENT NUMBER</u>	
	10	

Attention: Brett Gitskin
Vice President

In accordance with letters dated July 2, 2007 and September 21, 2007, License Number IL-02061-01 is amended in its entirety. Previous amendments are void.

ITEM	RADIONUCLIDE	CHEMICAL and/or PHYSICAL FORM	MAXIMUM ACTIVITY* PER SOURCE	MAXIMUM POSSESSION LIMIT
A.	Cs-137	Sealed Source - Amersham Corp. Model CDCW566, capsule type XN.30, Model CDCW556, capsule type X1218, Isotope Products Model HEG-0057, capsule type 3024, Troxler Drawing #A-102112	9 mCi	180 mCi
B.	Am-241	Sealed Source - Amersham Corp. Model AMNV.997, capsule type X.1, Isotope Products Model HEG-0058, capsule type 3024, Troxler Drawing #A-102451	44 mCi	880 mCi
C.	Cs-137	Sealed Source - Humboldt Scientific Drawing 200064	11 mCi	55 mCi
D.	Am-241	Sealed Source - Humboldt Scientific Drawing 2200067	44 mCi	220 mCi
E.	Am-241	Sealed Source - Amersham Corp. Model AMNV.340, capsule type X.2105, Troxler Drawing A-100608	100 mCi	500 mCi
F.	Am-241/Be	Sealed Source - QSA Global, Inc. Model AMNV.997 or Isotope Products Laboratories Model AmI.NO2	44 mCi	44 mCi

* μCi-microcurie; mCi-millicurie; Ci-Curie; MBq-Megabecquerel; GBq-Gigabecquerel; TBq-Terabecquerel; g-gram; μg-microgram; kg-kilogram

APPROVED BY:

DATE

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Charles G. Vinson, Acting Head of Radioactive Materials

January 25, 2008

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IDNS.FLM-004-02 (8/91)

STATE OF ILLINOIS
IEMA DIVISION OF NUCLEAR SAFETY
RADIOACTIVE MATERIAL LICENSE

LICENSEE	LICENSE NUMBER	AMENDMENT NUMBER	EXPIRATION DATE
ECS Illinois, LLC	IL-02061-01	10	April 30, 2009

AUTHORIZED USE:

- A. and B. For use in Troxler Electronics Model 3400 series gauges for measuring moisture/density content of various materials.
- C. and D. For use in Humboldt Scientific Model 5001 gauges for measuring the moisture/density of various construction materials.
- E. For use in Troxler Electronics Model 3241 series gauges for measuring the asphalt content of various materials.
- F. For use in Troxler Electronics Model 3216 gauge for measuring moisture content.

CONDITIONS

1. Radioactive material shall be stored at the licensee's facilities located at 1579 Barclay Boulevard, Buffalo Grove, Illinois, 9824 Industrial Drive, Unit C, Bridgeview, Illinois, 655 N. Cherry Avenue, Unit 3, Kankakee, Illinois and used at temporary jobsites of the licensee in areas not under exclusive Federal jurisdiction throughout the State of Illinois in accordance with statements, representations and procedures listed in other conditions of this license.
2. Radioactive material shall be used by, or under the supervision of **Scott Bierbaum, Kevin Moyer, Mae Pasamba** or individuals who have successfully completed the manufacturer's training course or an equivalent Agency approved training course. The licensee shall maintain training records of all designated users.
3. The Radiation Safety Officer for this license is **Kevin Moyer**.
4.
 - A. Each sealed source possessed under this license shall be tested for leakage and/or contamination as specified in 32 Ill. Adm. Code 340.410. Tests for leakage and/or contamination shall be performed by persons specifically licensed to provide such services.
 - B. This license does not authorize analysis of leak test samples. However, the licensee is authorized to collect leak test samples for analysis by persons specifically authorized by the Agency, an Agreement State, a Licensing State, or the U.S. Nuclear Regulatory Commission to perform such services.

* μ Ci-microcurie; mCi-millicurie; Ci-Curie; MBq-Megabecquerel; GBq-Gigabecquerel; TBq-Terabecquerel; g-gram; μ g-microgram; kg-kilogram

APPROVED BY:

DATE

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Charles G. Vinson, Acting Head of Radioactive Materials

January 25, 2008

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IL 473-0059

IDNS.FLM-004-02 (8/91)

STATE OF ILLINOIS
 IEMA DIVISION OF NUCLEAR SAFETY
 RADIOACTIVE MATERIAL LICENSE

LICENSEE	LICENSE NUMBER	AMENDMENT NUMBER	EXPIRATION DATE
ECS Illinois, LLC	IL-02061-01	10	April 30, 2009

(Condition 4. continued)

- C. The records of tests for leakage and/or contamination shall contain the manufacturer, model and serial number, if assigned, of each source tested, the identity of each source radionuclide, the results for each test sample expressed in Bq or μCi , the date the sample was collected, the date the sample was analyzed, the identity of the individual who collected the sample(s) and the identity of the individual who analyzed the sample(s).
- 5. Maintenance, repair and initial radiation monitoring of devices containing radioactive material shall be performed only by persons specifically authorized by the Agency, an Agreement State, or the Nuclear Regulatory Commission to perform such services.
- 6.
 - A. The source holder shall be locked in the "off" or closed position when the device is not in use.
 - B. Sealed sources shall not be opened or removed from their source holders by the licensee.
- 7. When performing tests at temporary job sites, the authorized user shall not leave the device 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.
- 8. At any time the licensee is engaged in making measurements by authority of this license at a temporary job site, the licensee shall have a current copy of each of the following documents available at the temporary job site for inspection by the Agency:
 - A. The license, including all active amendments.
 - B. The manufacturer's instruction manual for the sealed sources and devices at the temporary job site;
 - C. The licensee's emergency procedures; and
 - D. The results of the latest test for leakage and/or contamination performed on the sealed source.
- 9. The licensee shall conduct a physical inventory at intervals not to exceed six months to account for each sealed source received and possessed under the license and shall maintain a record of such inventories. The inventory records shall include the radionuclide, activity, activity assay date, manufacturer, model and serial number, the location of the sealed source, date of the inventory and the identity of the individual(s) performing the inventory. Records of inventories shall be maintained for five years from the date of each inventory.

* μCi -microcurie; mCi-millicurie; Ci-Curie; MBq-Megabecquerel; GBq-Gigabecquerel; TBq-Terabecquerel; g-gram; μg -microgram; kg-kilogram

APPROVED BY: _____ DATE _____ PAGE of PAGES

Charles G. Vinson, Acting Head of Radioactive Materials
 IL 473-0039

January 25, 2008

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IDNS.FLM-004-02 (8/91)

STATE OF ILLINOIS
 IEMA DIVISION OF NUCLEAR SAFETY
 RADIOACTIVE MATERIAL LICENSE

LICENSEE	LICENSE NUMBER	AMENDMENT NUMBER	EXPIRATION DATE
ECS Illinois, LLC	IL-02061-01	10	April 30, 2009

10. In addition to the possession limits stated in License Schedule Items A. through F., the licensee shall further restrict the possession of licensed material to quantities not to exceed the applicable limits referenced in Appendix C to 32 Ill. Adm. Code 330 that require consideration of the need for an emergency plan in accordance with 32 Ill. Adm. Code 330.250(e) for responding to a release of licensed material. For combinations of nuclides, the licensee must maintain a record for Agency inspection demonstrating for all possessed nuclides that the sum of the ratios of the quantity authorized and the limit established in Appendix C is not greater than one.
11. Except as specifically provided otherwise by the license, the licensee shall possess and use radioactive material described in all schedules of this license in accordance with statements, representations and procedures contained in, referenced in, or enclosed with the documents listed below. The regulations contained in 32 Ill. Adm. Code: Chapter II, Subchapters b and d shall govern unless the statements, representations and procedures in the licensee's application and correspondence are more restrictive than the regulations. The most recent statements, representations and procedures listed below shall govern if they conflict with previously submitted documents.
- A. Applications dated March 1, 1999 and January 9, 2004.
 - B. Letters, with attachments, dated April 6, 1999, October 16, 2000, December 1, 2000, February 6, 2001, October 24, 2001, January 7, 2002, March 29, 2004, June 1, 2004, June 2, 2006, December 11, 2006, July 2, 2007 and September 20, 2007.
 - C. Letter dated November 16, 2005

CGV:SMK:kjc

* μ Ci-microcurie; mCi-millicurie; Ci-Curie; MBq-Megabecquerel; GBq-Gigabecquerel; TBq-Terabecquerel; g-gram; μ g-microgram; kg-kilogram

APPROVED BY: _____ DATE _____ PAGE OF PAGES _____

Charles G. Vinson, Acting Head of Radioactive Materials
 IL 473-0059

January 25, 2008

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STATE OF WISCONSIN
DEPARTMENT OF HEALTH AND FAMILY SERVICES

RADIOACTIVE MATERIALS LICENSE

Under s.254.365, Wisconsin Statutes and Chapter HFS 157, Wisconsin Administrative Code, and in reliance on statements and representations made by the licensee, a license is issued authorizing the licensee to receive, acquire, possess and transfer radioactive material designated below; to use the material for the purpose(s) and at the place(s) designated below; and to deliver or transfer the material to persons authorized to receive it in accordance with Chapter HFS 157, Wisconsin Administrative Code. This license is subject to all applicable rules and orders of the Wisconsin Department of Health and Family Services (DHFS) including Chapter HFS 157, Wisconsin Administrative Code now or hereafter in effect, and to any conditions specified below.

Licensee Name and Address 1. ECS Illinois, LLC 2. 1575 Barclay Boulevard Buffalo Grove, IL 60089	3. License Number: 105-1221-01 4. Amendment No.: 5. Expiration Date: December 31, 2012
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6. Radioactive material:	7. Chemical and/or physical form:	8. Maximum amount of radioactive materials that the licensee may possess at any one time under this license:	9. Authorized Use:
A. Cesium-137 B. Americium-241:Be	A. Sealed source registered either with NRC under 10 CFR 32.210 or with an Agreement State. B. Sealed source registered either with NRC under 10 CFR 32.210 or with an Agreement State.	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 not to exceed 27 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 not to exceed 120 millicuries.	A through B: To be used in Troxler Electronic Laboratories, Inc. Model 3440 gauge for measuring the moisture content and density of construction materials.

**RADIOACTIVE MATERIALS
LICENSE
SUPPLEMENTARY SHEET**

License Number: 105-1221-01

Amendment No:

CONDITIONS

10. Licensed material may be used or stored at the licensee's facilities located at 4718 County Road Y, Milton, Wisconsin and may be used at temporary job sites of the licensee anywhere in Wisconsin where DHFS maintains jurisdiction for regulating the use of licensed material.
11. The Radiation Safety Officer for this license is Rick Lou.
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 the Application dated September 26, 2007, and have been designated in writing by the RSO.
13. The licensee is authorized to transport licensed material in accordance with the provisions of Chapter HFS 157, 'Radiation Protection', Subchapter XIII, 'Transportation'.
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. Except for maintaining labeling as required by Chapter HFS 157 'Radiation Protection', Subchapter III or Subchapter XIII, the licensee shall obtain authorization from DHFS 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 Certificate(s) of Registration issued either by the NRC pursuant to 10 CFR 32.210 or by an Agreement State.
16. Any cleaning, maintenance, or repair of the gauge(s) that requires detaching the source or source rod from the gauge shall be performed only by the manufacturer or by other persons specifically licensed by DHFS, the NRC or another Agreement State to perform such services.
17. 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.
18. The licensee shall conduct a physical inventory every 6 months, or at other intervals approved by DHFS, to account for all sources and/or devices received and possessed under the license. Records of inventories shall be maintained for 5 years from the date of each inventory and shall include the radionuclides, quantities, manufacturer's name and model numbers, location of sealed sources and/or devices, and the date of the inventory.
19. The licensee shall maintain a utilization log where the portable gauge(s) are stored. The log shall contain the date(s) of use, temporary job site(s), serial number of the gauge, and the name(s) of the authorized user(s).
20. Notwithstanding the requirements of HFS 157.24, no sealed sources shall be stored for a period of more than 3 years without being tested for leakage or contamination.

DPH 45018 (07/03)

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**RADIOACTIVE MATERIALS
LICENSE
SUPPLEMENTARY SHEET**

License Number: 105-1221-01

Amendment No:

- 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. Chapter HFS 157, 'Radiation Protection' shall govern unless the statements, representations, and procedures in the licensee's application and correspondence are more restrictive than the rule.
 - A. Application dated September 26, 2007 and signed by Brett Gitskin.
- 22. The licensee shall inform the Supervisor of the Radioactive Materials Program in writing at P.O. Box 2659, Madison WI 53701-2659, upon the receipt of radioactive material.

FOR THE WISCONSIN DEPARTMENT OF HEALTH AND FAMILY SERVICES

Cheryl K Rogers

2/04/08

SIGNATURE

Materials Program Supervisor

DATE



DIVISION OF PUBLIC HEALTH

1 WEST WILSON STREET
P O BOX 2659
MADISON WI 53701-2659Jim Doyle
GovernorKevin R. Hayden
Secretary

State of Wisconsin

Department of Health and Family Services

608-267-4797

FAX: 608-267-3695
dhfs.wisconsin.gov

February 4, 2008

ECS Illinois, LLC
Attn: Brett Gitskin, P.E.
1575 Barclay Boulevard
Buffalo Grove, IL 60089

Dear Mr. Gitskin:

Enclosed is Radioactive Material License No. 105-1221-01 authorizing use and possession of radioactive material by ECS Illinois, LLC.

Please read the license carefully as you will be responsible for its contents. Your operations will be subject to routine inspections by the State of Wisconsin, Department of Health and Family Services for compliance with Chapter HFS 157 'Radiation Protection' and the conditions of your license. These inspections may be unannounced or scheduled.

Please note that licensees are required to conduct their programs in accordance with statements, representations, and procedures contained in the license application and supporting documents. **The license must therefore be amended if the licensee plans to make changes in the facilities, equipment, procedures, authorized users, radiation safety officer or radioactive material to be used.**

Enclosed is a PPH 45027 'Notice to Employees' to post. Also enclosed is a sample correspondence delegation letter that should be filled and submitted to the department if the RSO would like authority to submit amendment requests on behalf of the licensee. To obtain a copy of Chapter HFS 157 'Radiation Protection' Subchapter X 'Notices, Instructions, and Reports to Workers', and Subchapter III 'Standards for Protection from Radiation', go to the department's website located at http://dhfs.wisconsin.gov/dph_beh/RadioactiveMat/Index.htm.

If you have any additional questions concerning your license please feel free to contact me at (608) 267-4791 or pederkh@dhfs.state.wi.us.

Sincerely,

A handwritten signature in cursive script that reads 'Kurt Pedersen'.

Kurt Pedersen
Nuclear Engineer
Radioactive Materials Program

Enc.