



# Facsimile Cover Sheet

To:  
Company:  
Fax:

Ms PATRICIA PELKE
NRC
(630) 515-1259

From: DENILO GUEVARRA  
 Company: ECS Illinois, LLC  
 1575 Barclay Boulevard  
 Buffalo Grove, IL 60089  
 Email:  
 Website: www.ecslimited.com  
 Phone: (847) 279-0366  
 Fax: (847) 279-0369

Date: 2/9/09

Pages including this cover:

11

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**ECS ILLINOIS, LLC****Geotechnical • Construction Materials • Environmental**

February 9, 2009

Ms. Patricia Pelke  
Nuclear Regulatory Commission  
Material Inspection Branch  
2433 Warrenville Road  
Lisle, Illinois 60532-4352

03037757

Reference: State of Illinois Radioactive Material License No. 12-32696-01-01  
Request for Amendments to License

Dear Ms. Pelke:

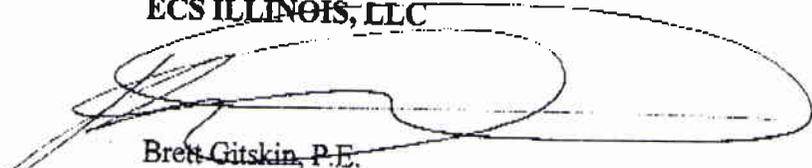
ECS Illinois, LLC (ECS) located at 1575-1579 Barclay Boulevard, Buffalo Grove, Illinois is requesting the following amendments to our license.

Mr. Kevin Moyer is no longer working with our company. As a result, Mr. Danilo Guevarra is replacing Mr. Kevin Moyer as our new Radiation Safety Officer (RSO). Mr. Guevarra is our Senior Project Engineer and has been working with ECS since February 1999. Mr. Guevarra has knowledge of use and application of portable nuclear moisture density gauges and had been designated as ECS RSO previously. He has completed the training course for the use of nuclear gauge devices, with the Troxler Electronics Laboratories. Attached herewith is a copy of Mr. Guevarra's certifications.

We hope the information for this amendment request including supporting documents will be sufficient for your present needs. If you have any questions regarding the information contained in this application and need additional information, please contact us at (847) 279-0366.

Respectfully,

**ECS ILLINOIS, LLC**



Brett Gitskin, P.E.  
President

I:\Field Services\Nuclear Gauges\Letters to NRC & IEMA\Amendment Requests\NRC Amendment Request #1 - New RSO.doc

317905

# Certificate of Completion

This Certifies that

DANILO A. GUEVARRA

has successfully completed the

*Troxler Radiation Safety Officer Course*

conducted by the training program of

*Troxler Electronic Laboratories, Inc.*

*Stewart Spraggins*  
STEWART SPRAGGINS

Instructor

10/19/94

Date

WILLIAM F. TROXLER

President

ITEM No. 11 Resubmitted Technical Records

# TROXLER ELECTRONIC LABORATORIES, INC.

HEREBY CERTIFIES THAT

DANILO A. GUEVARRA

of

ENGINEERING TESTING SERVICES

HAS SUCCESSFULLY COMPLETED THE TROXLER ELECTRONIC LABORATORIES, INC.  
TRAINING COURSE FOR THE USE OF NUCLEAR TESTING EQUIPMENT.

SUBJECTS INCLUDED IN THIS COURSE WERE AS FOLLOWS:

## Radiological Safety

1. Principles and practices of radiation protection.
2. Leak testing procedures.
3. Mathematics and calculations basic to the use and measurement of radioactivity.
4. Biological effects of radiation.
5. Radioactivity measurement standardization and monitoring techniques and instruments.
6. Accident and incident procedures.
7. Procedures for nuclear gauge storage and transportation.
8. General safety precautions.

## Gauge Operation

1. Instrument theory
2. Operating procedures
3. Maintenance
4. Field application
5. Gauge calibration

*Tom Donnelly*  
TOM DONNELLY

INSTRUCTOR

CERTIFICATE #: 066504

1/27/95

DATE

WILLIAM F. TROXLER

PRESIDENT

FORM NO. 11 PERIODIC

TROXLER ELECTRONIC LABORATORIES, INC.





# DEPARTMENT OF NUCLEAR SAFETY

1035 OUTER PARK DRIVE SPRINGFIELD ILLINOIS 62704

George H. Ryan  
Governor

Thomas W. Ortziger  
Director



February 21, 2001

**RECEIVED**

**FEB 26 2001**

Radioactive Material License  
IL-02061-01

Brett Gitskin  
Vice President  
Engineering Consulting Services, Ltd.  
1575 Barclay Boulevard  
Buffalo Grove, IL 60089

Dear Mr. Gitskin:

Enclosed is amendment number 1 to your License Number IL-02061-01. For your convenience, the changes are boldfaced on this license amendment.

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 Department. If applicable, you will be billed in accordance with the requirements of 32 Ill. Adm. Code Part 331.120.

You will be periodically inspected by this agency. Failure to conduct your program in accordance with IDNS 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 the Division of Radioactive Materials, Licensing Section at (217) 785-9947.

Sincerely,

Charles G. Vinson  
Head of Materials Licensing  
Division of Radioactive Materials

CGV:MEB:kjg



Enclosure  
recyclable

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

STATE OF ILLINOIS  
DEPARTMENT OF NUCLEAR SAFETY

**RADIOACTIVE MATERIAL LICENSE**

DIVISION OF RADIOACTIVE MATERIALS  
1035 OUTER PARK DRIVE  
SPRINGFIELD, ILLINOIS 62704

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 Illinois Department of Nuclear Safety now or hereafter in effect and to any conditions specified in the license. This document confirms that the licensee has registered the sources of radiation listed below in accordance with Section 2 of the Radiation Installations Act.

LICENSEE

Engineering Consulting Services, Ltd.  
1575 Barclay Boulevard  
Buffalo Grove, IL 60089

LICENSE NUMBER  
IL-02061-01

EXPIRATION DATE  
April 30, 2004

AMENDMENT NUMBER  
1

Attention: Brett Gitskin  
Vice President

In accordance with letter dated October 16, 2000, 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	Any
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	Any
C.	Cs-137	Sealed Source - Humboldt Scientific Drawing 200064	11 mCi	Any
D.	Am-241	Sealed Source - Humboldt Scientific Drawing 2200067	44 mCi	Any
E.	Cs-137	Sealed Source - Boart Longyear Co., (Campbell Pacific Nuclear) CPN-131	10 mCi	Any
F.	Am-241	Sealed Source - Boart Longyear Co., (Campbell Pacific Nuclear) CPN-131	50 mCi	Any

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

APPROVED BY:

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

DATE

PAGE of PAGES

February 21, 2001

1 4

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

**STATE OF ILLINOIS  
DEPARTMENT OF NUCLEAR SAFETY  
RADIOACTIVE MATERIAL LICENSE**

<u>LICENSEE</u> Engineering Consulting Services, Ltd.	<u>LICENSE NUMBER</u> IL-02061-01	<u>AMENDMENT NUMBER</u> 1	<u>EXPIRATION DATE</u> April 30, 2004
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ITEM	RADIONUCLIDE	CHEMICAL and/or PHYSICAL FORM	MAXIMUM ACTIVITY* PER SOURCE	MAXIMUM POSSESSION LIMIT
G.	Am-241	Sealed Source - Amersham Corp. AMNV.340, capsule type X.2105, Troxler Drawing A-100608	100 mCi	Any

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. and F. For use in Boart Longyear Co. (Campbell Pacific Nuclear) Model MC series for measuring the moisture/density of various materials.
- G. For use in Troxler Electronics Model 3241 series gauges for measuring the asphalt content of various materials.

CONDITIONS

1. Radioactive material shall be stored at the licensee's facilities located at 1575-1577 Barclay Boulevard, Buffalo Grove, 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 and in the physical presence of, Danilo A. Guevarra or individuals who have successfully completed the manufacturer's training course or an equivalent Department approved training course. The licensee shall maintain training records of all designated users.
3. The Radiation Safety Officer for this license is Danilo Guevarra.

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

APPROVED BY:

DATE

PAGE of PAGES

Charles G. Vinson, Head of Materials Licensing  
IL 073-0059

February 21, 2001

2 4

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

STATE OF ILLINOIS  
DEPARTMENT OF NUCLEAR SAFETY  
RADIOACTIVE MATERIAL LICENSE

<u>LICENSEE</u>	<u>LICENSE NUMBER</u>	<u>AMENDMENT NUMBER</u>	<u>EXPIRATION DATE</u>
Engineering Consulting Services, Ltd.	IL-02061-01	1	April 30, 2004

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 Department, an Agreement State, a Licensing State, or the U.S. Nuclear Regulatory Commission to perform such services.
- 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 Ci, 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 Department, 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 Department:
- 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.

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

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PAGE of PAGES

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

February 21, 2001

3 4

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

STATE OF ILLINOIS  
DEPARTMENT OF NUCLEAR SAFETY  
RADIOACTIVE MATERIAL LICENSE

<u>LICENSEE</u>	<u>LICENSE NUMBER</u>	<u>AMENDMENT NUMBER</u>	<u>EXPIRATION DATE</u>
Engineering Consulting Services, Ltd.	IL-02061-01	1	April 30, 2004

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.
  
10. In addition to the possession limits stated in License Schedule Items A. through G., 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 Department 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. Application dated March 1, 1999.
  - B. Letters, with attachments, dated April 6, 1999, October 16, 2000, December 1, 2000 and February 6, 2001.

CGV:MEB:kg

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

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PAGE of PAGES

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

February 21, 2001

4 4

TOTAL P. 11