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NMSS/RON1 MATERIALS-002

Georgia Department of Natural Resource 3 4220 International Parkway, Suite 100, Atlanta, Georgia 303! 4

Noel Holcomb, Commissioner

Carol A Couch, Ph D, Direc or Environmental Protection Divis on 404/362-26 75

1503 **RADIOACTIVE MATERIALS PROGRAM** GEORGIA RADIOACTIVE MATERIALS LICENSE

Pursuant to the Georgia Radiation Control Act O.C.G.A. 31-13 (H.B. 947) 1990 and the Georgia Department of Natural Resources Rules nd Regulations, designated Chapter 391-3-17, and in reliance on statements and representations heretofore made by the licensee designated belov, a license is hereby issued authorizing such licensee to transfer, receive, possess, and use the radioactive material(s) designated below; and to use sich radioactive materials for the purpose(s) and at the place(s) designated below. This license is subject to all applicable rules and regulations of the Georgia Department of Natural Resources and orders issued by the Department, now or hereafter in effect, and to any condition specified below

> Page 1 of 5 Pages License Number GA 1398 1 Amendment Number.05

License (1. Name and 2. Address) Contour Engineering, LLC 1955 Vaughn Road, Suite 101 Kennesaw, Georgia 30144				2006 ,L amende follows Expira	erdance with letter dated May 2, License Number GA. 1398-1 is ed in its entirety to read as tion Date: April 30, 2010 none Number: (770) 794-0266
6.	RADIOACTIVE MATERIAL (ELEMENT AND MASS NUMBER)	7.	CHEMICAL AND/OR PHYSICAL FORM	8.	MAXIMUM QUANTITY LICENSEE MAY POSSESS AT ANY ONE TIME
A.	Cesium 137	A.	Sealed Source Model Number 3400 series	Α.	No single source to exceed 9 millicuries
В.	Americium 241	B.	Sealed Source Model Number 3400 series	B.	No single source to exceed 44 millicuries
c.	Cesium 137	C.	Sealed Source CPN Mode 131	I C.	No single source to exceed 10 millicuries
D.	Americium 241	D.	Sealed Source CPN Mode 131	ID.	No single source to exceed £0 millicuries

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Georgia Department of Natural kesources

Radioactive Materials License Supplementary Sheet

> Page 2 of 5 Pages License Number GA 1398-1 Amendment Number .05

9. AUTHORIZED USE

- A. and B. For use in a Troxler model 3400 series device to determine moisture and dens ty of construction material.
- C. and D. For use in a CPN model 131, MC series device to determine moisture and density of construction material.

CONDITIONS

- 10. Radioactive material shall be stored at 1955 Vaughn Road, Suite 101, Kennesaw, Georgia. Radioactive material may be used only at temporary job sites of the licensee anywhere in the State of Georgia. This condition does not prohibit use in other Agreement States and States under the jurisdiction of the U.S. Nuclear **Regulatory** Commission under reciprocity procedures which may be established by an Agreement State or the U.S. Nuclear Regulatory Commission.
- 11. The licensee shall comply with the provisions of Georgia Department of Natural Resources Rule 391-3-17-.03, "Standards for Protection Against Radiation. Amended.", Rule 391-3-17-.06, "Transportation of Radioactive Material. Amended.", and Rule 391-3-17-.07, "Notices, Instructions and Reports to Workers: Inspections. Amended."
- 12. In accordance with DNR Board Policy adopted May 28, 2003 the fees associated with his license, fee category C.11 are:

Application fee	\$500.00	Annual fee	\$1000.00
Amendmentfee	\$380.00	Non-routine Inspection fee	\$1200.00

Checks for the **fees** should be made payable to the <u>Department of Natural Resources</u>, <u>Radioactive Materials **Program**</u>, and mailed to the following address:

Radioactive Materials **Fees** P.O. Box 101**161** Atlanta, **GA** 30392

Mail license applications and amendment requests to the following address:

Radioactive Materials Program 4220 International Parkway, Suite 100 Atlanta, GA 30354

All license applications, amendments and fee payments should be mailed the same day

Annual fees are billed by the Department at the beginning of each fiscal year.

Georgia Department of Natural hesources

Radioactive Materials License Supplementary Sheet

> Page 3 of 5 Pages License Number GA 1398-Amendment Number .05

Conditions (continued)

- 13. The Radiation Safety Officer in this program shall be Chris Bahlmann.
- 14. Licensed material shall be used by individuals who have successfully completed the manufacturer's training program, and have received copies of the licensee's operating and emergency procedures, and have been designated by the Radiation Safety Officer. Records/Certificates shall be maintained for Department inspection.
- 15. Each portable 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.
- 16. Except for maintaining labeling as required by 391-3-17-.03, the licensee shall obtain authorization from the Department before making any changes in the sealed source, device, or source-device combination that would alter the description **a** specifications as indicated in the Sealed Source Registry issued either by the Department, an Agreement State or the Nuclear Regulatory Commission.
- 17. Maintenance or repair of portable devices involving removal of sealed sources from the devices or removal or dismantling of shielding may be performed only by the device manufacturer, or by persons specifically **authorized** by the Department, Agreement States, or the U.S. Nuclear Regulatory Commission to perform such services.
- 18. Sealed sources containing radioactive material shall not be opened by the licensee.
- 19. The licensee shall conduct a physical inventory every 6 months to account for all licensed material received and possessed under this license. The records of inventories shall be maintained for inspection by the Department and shall include the quantities and kinds of radioactive material, the manufacturer, model and serial number, location of sealed sources, and the date and name of the individual performing the inventory.
- 20. The licensee shall perform required tests for leakage or contamination at intervals not to exceed six (6) months in accordance with Rule 391-3-17-.03(6). Analysis of the tests shall be performed by persons specifically authorized by the Department, the U.S. Nuclear Regulatory Commission, or an Agreement State to perform such services.

Georgia Department of Natural kesources

Radioactive Materials License Supplementary **Sheet**

> Page 4 of 5 Pages License Number GA 1398-1 Amendment Number .05

Conditions (continued)

- 21. The licensee shall maintain a current utilization log which shall be kept available for inspection by the Department, for three years from the date of the recorded event, showing for each seal ad source the following information:
 - A. A unique identification, such **as** a serial number, for each portable gauge in which a sealed source is located;
 - B. The identity of the individual to whom assigned;
 - C. Locations where used and dates of use; and
 - D. The date(s) each source is removed from storage and returned to storage
- 22. The licensee shall notify the Radioactive Materials Program, Georgia Department of Natural Resources, of each operation conducted under the license at a location other than that specified in Item 2 above when such operation continues for more than 60 days. The licensee shall also notify this office upon cessation of such operation.
- 23. In addition to the possession limits in Item 8, the licensee shall further restrict the possession of licensed material with a half-life greater than 120 days to quantities less than those specified in Rule 391-3-17-.02(8)(g)4. Exceeding quantities in .02(8)(g)4. requires the submittal of a financial assurance mechanism or a decommissioning funding plan.
- 24. Except as specifically provided otherwise in this license, the licensee shall conduct its program in accordance with statements, representations, and procedures contained in the documents. including any enclosures listed below:
 - A. Application with enclosures dated April 6, 2000 and signed by Jack **Rebeiz**, P.E., President and:
 - B. Letter dated June 17, 2003 and signed by John K. Clark, Project Manager and RSO and;
 - *C.* Letter dated June 22, 2005 and signed by Chris Bahlmann, Construction Services Manager and RSO and;
 - D. Letter dated May 2, 2006 and signed by Chris Bahlmann, Construction Services Manager and RSO.

Georgia Department of Natural Resources

Radioactive Materials License Supplementary Sheet

> Page 5 of 5 Pages License Number GA 1398-1 Amendment Number .05

Condition 24 (continued)

The Georgia Department of Natural Resources' regulations shall govern unless the statements representations and procedures in the licensee's application and correspondence are more restrictive than the Regulations.

FOR THE DEPARTMENT OF NATURAL RESOURCES

Date: May 15, 2006

BY

Liz Seale

Jul 24 D6 12:23p

<u>C</u> <u>eorgia</u> Department of <u>Tatural Resources</u>

4220 International Parkway, Suite 100, Atlanta, Georgia 3(354 Noel Holcomb, Commissioner Environmental Protection Division Carol A. Couch, Ph.D., Divisctar (404) 362 2675

May 15,2006

Chris Bahlmann Construction Services Manager, RSO Contour Engineering, LLC 1955 Vaughn Road Suite 101 Kennesaw, Georgia 30144

Dear Mr. Bahlmann:

In accordance with your letter **dated** May 2, 2006, Georgia Radioactive Materials License Number GA 1398-1 has been amended. Please find enclosed a copy of Amendment Number .04.

If you should have any questions concerning the license or **any** other matter, please call me at (404) 362-2675.

Sincerely,

's Sale

Liz Seale Environmental Radiation Specialist Radioactive Materials Program

Enclosure



Geotechnical Services • Materials Testing Services • Environmental Services

PHYSICAL INVENTORY

17 CCR 30346.4 Physical Inventory. Each licensee shall conduct a semi-annual physical inventory to account for all licensed radioactive material received and possessed under the license.

Accord to !

				Hssis	70.	
GAUGE MODEL & SERIAL NUMBER	NUCLIDES & ACTIVITIES	DATE OF RECEIPT	CURRENT LEAK TEST	D ATE OF TRANSFER	DISPOSITION	
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Trox 12- 3430		10/21/08	10/2/108	Juski-	Bron- 4	7.09
CPN MC-IDR	P 5676	10/21/08	10/21/08	Enic (in /	
CPN MC-1 DR.	P 5677	10/21/08	10/21/08	Mr-1L	Boyd V	
Thank 3430		10/21/08	10/21/08	EUN~	J-16ins	
Twox Las 3430	31709	10/21/08	10/21/08	Cobl 1	Be-Kedah 7	12007
Those 3430	34087	10/21/08	10/21/08	Timenin	- Smith	
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SIGNED, RSG (11) (12) (1





QUALITY DRILLING SUPPLIES AND MATERIALS TESTING EQUIPMENT 4187 S.W. 34th. Street Phone: 800-569-8950 Orlando, FL 32811 Fax: 407-246-6518 Atlantic Drilling Supply, Inc 4187 S.W. 34th Street Orlando, FL 32811 Phone: 800-569-8950 Fax: 407-246-6518 www.atlanticsupply.com

CERTIFICATE OF LEAK TEST

Contour Engineering Attn: Kenneth Kimmel 1955 Vaughn Road Ste. 101 Kennesaw, GA 30144 Date Sample Taken: 10/21/08 Date Test Performed: 10/23/08 Licensed Test Interval: 6 Months Next Test Due Date: 4/21109 ADS License Number: 2830-1

This certificate certifies that the leak test on the indicated source(s) was conducted on 10/23/08 and that the results shown below represent the level of removable contamination.

Gauge Manufacturer/Model Number: Troxler 3430 Gauge Serial Number: 33839

Isotope	<u>Activity</u>	Source S/N or Date	Removable Contamination** (in Microcuries)
Am-241/Be	40 mCi	*N/S	<0.005
Cs-137	8 mCi	*N/S	<0.005

**0.005 Microcuries (185Bq) or greater is indicative of a leaking source.

Test Device: Ludlum Model 2200 Scaler Ratemeter monitoring signals from a Model 243 Shielded Well Scintilliator.

Representative sample was obtained by the gauge owner. Sample has been evaluated for leakage

This source: May remain in use.

Performed by:

Nuclear Technician

Reviewed by:

Whe Gordon

Customer RSO Review

* NIS = Information not supplied on form by customer.



Atlantic Supply

QUALITY DRILLING SUPPLIES AND MATERIALS TESTING EQUIPMENT 4187 S.W. 34th. Street Phone: 800-569-8950 Orlando, FL 32811 Fax: 407-246-6518 Atlantic Drillinth Supply, Inc. 4187 S.W. 34^t Street Orlando, FL 32811 Phone: 800-569-8950 Fax: 407-246-6518 www.atlanticsupply.com

CERTIFICATE OF LEAK TEST

Contour Engineering Attn: Kenneth Kimmel 1955 Vaughn Road Ste. 101 Kennesaw, GA 30144 Date Sample Taken: 10/21/08 Date Test Performed: 10/23/08 Licensed Test Interval: 6 Months Next Test Due Date: 4/21/09 ADS License Number: 2830-1

This certificate certifies that the leak test on the indicated source(s) was conducted on 10/23/08 and that the results shown below represent the level of removable contamination.

Gauge Manufacturer/Model Number: Troxler 3430 Gauge Serial Number: 32479

<u>Isotope</u>	Activity	Source S/N or Date	Removable Contamination** (in Microcuries)
Am-241/Be	40 mCi	*N/S	<0.005
Cs-137	8 mCi	*N/S	<0.005

**0.005 Microcuries (185Bq) or greater is indicative of a leaking source.

Test Device: Ludlum Model 2200 Scaler Ratemeter monitoring signals from a Model 243 Shielded Well Scintilliator.

Representative sample was obtained by the gauge owner. Sample has been evaluated for leakage

This source: May remain in use.

Performed by:

Reviewed by:

ADS Nuclear Technician

ADS Radiation Safety Officer

Customer RSO Review

* NIS = Information not supplied on form by customer.





QUALITY DRILLING SUPPLIES AND MATERIALS TESTING EQUIPMENT 4187 S.W. 34th. Street Phone: 800-569-8950 Orlando, FL 32811 Fax: 407-246-6518 Atlantic Drillinth Supply, Inc. 4187 S.W. 34^t Street Orlando, FL 32811 Phone: 800-569-8950 Fax: 407-246-6518 www.atlanticsupply.com

CERTIFICATE OF LEAK TEST

Contour Engineering Attn: Kenneth Kimmel 1955 Vaughn Road Ste. 101 Kennesaw, GA 30144 Date Sample Taken: 10/21/08 Date Test Performed: 10/23/08 Licensed Test Interval: 6 Months Next Test Due Date: 4/21/09 ADS License Number: 2830-1

This certificate certifies that the leak test on the indicated source(s) was conducted on 10/23/08 and that the results shown below represent the level of removable contamination.

Gauge Manufacturer/Model Number: Troxler 3430 Gauge Serial Number: 34087

Isotope	<u>Activity</u>	Source S/N or Date	Removable.Contamination** (in Microcuries)
Am-241/Be	40 mCi	*N/S	<0.005
Cs-137	8 mCi	*N/S	<0.005

**0.005 Microcuries (185Bq) or greater is indicative of a leaking source.

Test Device: Ludlum Model 2200 Scaler Ratemeter monitoring signals from a Model 243 Shielded Well Scintilliator.

Representative sample was obtained by the gauge owner. Sample has been evaluated for leakage

This source: May remain in use.

Performed by:

Reviewed by:

ADS Radiation Safety Officer

Customer RSO Review:

* NIS = Information not supplied on form by customer.





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CERTIFICATE OF LEAK TEST

Contour Engineering Attn: Kenneth Kimmel 1955 Vaughn Road Ste. 101 Kennesaw. GA 30144 Date Sample Taken: 10/21/08 Date Test Performed: 10/23/08 Licensed Test Interval: 6 Months Next Test Due Date: 4121/09 ADS License Number: 2830-1

This certificate certifies that the leak test on the indicated source(s) was conducted on 10/23/08 and that the results shown below represent the level of removable contamination.

Gauge Manufacturer/Model Number: Troxler 3430 Gauge Serial Number: 31709

<u>Isotope</u>	<u>Activity</u>	Source SIN or Date	Removable Contamination** (in Microcuries)
Am-241/Be	40 mCi	*N/S	<0.005
Cs-137	8 mCi	*N/S	<0.005

**0.005 Microcuries (185Bq) or greater is indicative of a leaking source.

Test Device: Ludlum Model 2200 Scaler Ratemeter monitoring signals from a Model 243 Shielded Well Scintilliator.

Representative sample was obtained by the gauge owner. Sample has been evaluated for leakage

This source: May remain in use.

Performed by:

Nuclear Technician

Reviewed by:

Mike Gordon ADS Radiation Safety Officer

Customer RSO Review

* NIS = Information not supplied on form by customer.





MATERIALS TESTING EQUIPMENT

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CERTIFICATE OF LEAK TEST

Contour Engineering Attn: Kenneth Kimmel 1955 Vaughn Road Ste. 101 Kennesaw, GA 30144 Date Sample Taken: 10/21/08 Date Test Performed: 10/23/08 Licensed Test Interval: 6 Months Next Test Due Date: 4/21/09 ADS License Number: 2830-1

This certificate certifies that the leak test on the indicated source(s) was conducted on 10/23/08 aid that the results shown below represent the level of removable contamination.

Gauge Manufacturer/Model Number: CPN MC-I Gauge Serial Number: MD00505675

<u>Isotope</u>	Activity	Source S/N or Date	Removable Contamination*" (in Microcuries)
Am-241/Be	50 mCi	*N/S	<0.005
Cs-137	10 mCi	*N/S	<0.005

**0.005 Microcuries (185Bq) or greater is indicative of a leaking source.

Test Device: Ludlum Model 2200 Scaler Ratemeter monitoring signals from a Model 243 Shielded Well Scintilliator.

Representative sample was obtained by the gauge owner. Sample has been evaluated for leakage.

This source: May remain in use.

Performed by:

ADS Nuclear Technician

Reviewed by:

Radiation Safety Officer

Customer RSO Review

* N/S = Information not supplied on form by customer





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CERTIFICATE OF LEAK TEST

Contour Engineering Attn: Kenneth Kimmel 1955 Vaughn Road Ste. 101 Kennesaw, GA 30144 Date Sample Taken: 10/21/08 Date Test Performed: 10/23/08 Licensed Test Interval: 6 Months Next Test Due Date: 4/21/09 ADS License Number: 2830-1

This certificate certifies that the leak test on the indicated source(s) was conducted on 10/23/08 and that the results shown below represent the level of removable contamination.

Gauge Manufacturer/Model Number: Troxler 3430 Gauge Serial Number: 39647

<u>Isotope</u>	<u>Activity</u>	Source S/N or Date	Removable Contamination** (in Microcuries)
Am-241/Be	40 mCi	*N/S	<0.005
Cs-137	8 mCi	*N/S	<0.005

**0.005 Microcuries (185Bq) or greater is indicative of a leaking source.

Test Device: Ludlum Model 2200 Scaler Ratemeter monitoring signals from a Model 243 Shielded Well Scintilliator.

Representative sample was obtained by the gauge owner. Sample has been evaluated for leakage.

This source: May remain in use.

Performed by:

Reviewed by:

Nuclear Technicia

ADS Radiation Safety Officer

Customer RSO Review

* NIS = Information not supplied on form by customer.





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CERTIFICATE OF LEAK TEST

Contour Engineering Attn: Kenneth Kimmel 1955 Vaughn Road Ste. 101 Kennesaw, GA 30144 Date Sample Taken: 10121108 Date Test Performed: 10/23/08 Licensed Test Interval: 6 Months Next Test Due Date: 4/21/09 ADS License Number: 2830-1

This certificate certifies that the leak test on the indicated source(s) was conducted on 10123108 aid that the results shown below represent the level of removable contamination.

Gauge Manufacturer/Model Number: CPN MC-1 Gauge Serial Number: MD00505677

<u>Isotope</u>	Activity	Source S/N or Date	Removable Contamination*" (in Microcuries)
Am-241/Be	50 mCi	*N/S	<0.005
Cs-137	10 mCi	*N/S	<0.005

**0.005 Microcuries (185Bq) or greater is indicative of a leaking source

Test Device: Ludlum Model 2200 Scaler Ratemeter monitoring signals from a Model 243 Shielded Well Scintilliator.

Representative sample was obtained by the gauge owner. Sample has been evaluated for leakage.

This source: May remain in yse.

Performed by'

Reviewed bv:

ADS Nuclear Technicia

Jard

ADS Radiation Safety Officer

Customer RSO Review

* N/S = Information not supplied on form by customer.





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CERTIFICATE OF LEAK TEST

Contour Engineering Attn: Kenneth Kimmel 1955 Vaughn Road Ste. 101 Kennesaw. GA 30144 Date Sample Taken: 10121108 Date Test Performed: 10/23/08 Licensed Test Interval: 6 Months Next Test Due Date: 4/21/09 ADS License Number: 2830-1

This certificate certifies that the leak test on the indicated source(s) was conducted on 10/23/08 and that the results shown below represent the level of removable contamination.

Gauge Manufacturer/Model Number: CPN MC-1 Gauge Serial Number: MD00505676

<u>Isotope</u>	<u>Activity</u>	Source SIN or Date	Removable contamination*" (in Microcuries)
Am-241/Be	50 mCi	*N/S	<0.005
Cs-137	10 mCi	*N/S	<0.005

**0.005 Microcuries (185Bq) or greater is indicative of a leaking source

Test Device: Ludlum Model 2200 Scaler Ratemeter monitoring signals from a Model 243 Shielded Well Scintilliator.

Representative sample was obtained by the gauge owner. Sample has been evaluated for leakage.

This source: May remain in use.

Performed by

Reviewed by:

he Gordon adiation Safetv Office

Customer RSO Review

* N/S = Information not supplied on form by customer.

Atlantic Supply

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CERTIFICATE OF LEAK TEST

Contour Engineering Attn: Kenneth Kimmel 1955 Vaughn Road Ste. 101 Kennesaw, GA 30144 Date Sample Taken: 10/24/08 Date Test Performed: 10/31/08 Licensed Test Interval: 6 Months Next Test Due Date: 4/24/09 ADS License Number: 2830-1

This certificate certifies that the leak test on the indicated source(s) was conducted on 10/31/08 and that the results shown below represent the level of removable contamination.

Gauge Manufacturer/Model Number: Troxler 3430 Gauge Serial Number: 37970

Isotope	<u>Activity</u>	Source S/N or Date	Removable Contamination** (in Microcuries)
Am-241/Be	40 mCi	*N/S	<0.005
Cs-137	8 mCi	*N/S	<0.005

**0.005 Microcuries (185Bq) or greater is indicative of a leaking source.

Test Device: Ludlum Model 2200 Scaler Ratemeter monitoring signals from a Model 243 Shielded Well Scintilliator.

Representative sample was obtained by the gauge owner. Sample has been evaluated for leakage

This source: May remain in use.

Performed by

Nuclear

Reviewed by:

ADS Radiation Safety Officer

Customer RSO Review:

* N/S = Information not supplied on form by customer.

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Geotechnical Services • Materials Testing Services • Environmental Services 1955 Vaughn Road, Suite 101, Kennesaw, Georgia 30144

то:

Licensing Assistant Section Nuclear Materials Safety Branch US Nuclear Regulatory Commission Region 1 475 Allendale Road King of Prussia, PA 19406-1415

This is to acknowledge the receipt of your letter/application dated

includes an administrative review has been performed.

✓ TGR Manificane lo - 25587 - 01 ✓ There were no administrative omissions. Your application was assigned to a technical reviewer. Please note that the technical review may identify additional omissions or require additional information. Please provide to this office within 30 days of your receipt of this card

A copy of your action has been forwarded to our License Fee & Accounts Receivable

Your action has been assigned **Mail** Control **Number** <u>143442</u>. When calling to inquire about this action, please refer to this control number. You may call us on (610) 337-5398, or 337-5260.

Branch, who will contact you separately if there is a fee issue involved.

NRC FORM 532 (RI) (6-96)

Sincerely, Licensing Assistance Team Leader