

July 13, 2012

Nuclear Regulatory Commission Region IV 1600 East Lamar Boulevard Arlington, Texas 76011

Attention: Coleen Murnahan, Licensing Agent

Subject: Change in License No. 46-27696-01 - Relocation of Nuclear Density Gage

Ms. Murnahan:

This letter is written to inform you that as of July 13, 2012, nuclear density gauge CPN Model # MC1DRP, Serial # M300105428 located at 3050 S. Delaware, Springfield, Missouri 65804 has been relocated to 11955 Lakeland Park Blvd., Suite 100 Baton Rouge, LA 70809, under <u>License No. LA-2453-L01</u> (see attached).

As a result of this relocation, please removed the nuclear density gage located at 3050 S. Delaware, Springfield, Missouri 65804 from our current license (License No. 46-27696-01). The nuclear density gage stored at our GeoEngineers office located at 1525 South David Lane, Boise, Idaho remains active.

If you have any questions regarding this letter please do not hesitate to contact me at 253.383.4940.

Sincerely, GeoEngineers, Inc.

Wayne Adams, Corporate RSO 1101 S. Fawcett Ave. Suite 200 Tacoma, WA 98402 Tel: 253-383-4940 Fax: 253 383 4923

List of Enclosures: Gamma-Tron Services Inventory and Inspection Gamma-Tron Services leak test Gamma-Tron Services calibration GeoEngineers, Inc. Louisiana License No. LA-2453-L01 GeoEngineers, Inc. NRC Materials License No. 46-27696-01 PUBLIC

Immediate Release
Normal Release

h D

NON-PUBLIC A.3 Sensitive-Security Related A.7 Sensitive Internal Other:

Date: 7/24/12 ne



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INVENTORY AND INSPECTION BY

GAMMA-TRON SERVICES P.O. BOX 86 ERWINVILLE, LA 70729

DATE OF INSPECTION OWNER 2012 051 **GAMMA-TRON SERVICES** ADDRESS P.O. BOX 86 CITY STATE ZIP Erwinville LA 70729 MODEL SERIAL NO MANUFACTURER M300105428 C-MCI-DR ZEMANT C. DN CS-137 S/N AM241:BE S/N AM241:BE ACTIVITY IN mCi CS-137 ACTIVITY IN mCi 52122 13861 185 90 10 (370 XBg MEAS. DATE CS-137 MEAS, DATE AM241:BE 5 1999 8/12 FINDING OF INSPECTION LOCK LABELS SHUTTER CONDITION GOOD_ Go.O.D. GOOD 6000 BY h 577872 Monday, November 09, 2009 Page 1

LEAK TEST REPORT GAMMA-TRON SERVICES P.O. BOX 86 Erwinvile, LA 70729 7

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	45	00	/ 1	/ #	

OEO Engineero		8		
GEO Engineers				
11055 Lakeland Park	Blvd			
ADDRESS				
Baton Rouge	La	70804	1000 Selection and the State State State State	
CITY	STATE	ZIP	7/5/2012	
ii li			DATE OF LEAK TEST	
		in Charles Contraction		
			2	
52122	C-MC1-DR	M300105428	0.00000 (ALPHA uCI	0.00001 BETA uCi
00-131 0/IV	WODEL	OLIVIAL NO	36	18
73807 AM241 BF S/N				
		E/00/4000		
10 (370 BGq)	Ci	5/26/1999 MEAS, DATE CS-137		
	400\$9632	0//0//000	1/5/2013	
50 (1.85 GBq)	nCi	MEAS. DATE AM241:BE	NEXT LEAK TES	TDUE
	68		8-10-10-10-10-10-10-10-10-10-10-10-10-10-	
			OWNER#	
COMMENTS: LESS	THAN 0.005 u	Ci (185Bq) REMOVA	BLE CONTAMINATION.	VINITILOFORIDIE
EQUIPMENT: LUDLUM M	ODEL 3030 ALF	HA-BETA COUNTER. A	QC CHECK IS MADE EACH DA	Y WITH CERTIFIED
STANDARDS OF TECHNI	ETIUM 99 AND 1	HORIUM 230, EACH TRA	UEADLE 10 11.1.3.1.	
123				
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			17.1.	
		,	BY	
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		G	amma-Tro	n Services				
UNITS: PCF						CALIB DATE	: 07/05/12	
GAGE MODEL: 0	C-MC1-DR	SER: 5428	3			CALIB BAY:	1	
SOURCE TYPE: SERIAL:	GAMMA 52122	NEUTRON 13861		STD COU	NT:	DENSITY: MOISTURE:	34151 9108	
		** DEN	SITY CALI	BRATION D	ATA **	(
	DEPT	H]	LOW	MED		HIGH		
			108.8	133.7		162.7		
	BS	220	023.0	16960.0		12567.0		
	AC	50	715.0	38349.0		27385.0		
	2	111:	526.0	82612.0		56462.0		
	4	102:	535.0	70644.0		45477.0		
	6	77	380.0	49056.0		29431.0		
	8	513	326.0	16922.0		8955 0		
	10	314	433.U 550.0	9673 0		5380.0		
DEPTH BS AC 2 4 6 8	** D A 2.03015 4.86138 11.22620 14.76459 17.65343 19.76323	ENSITY PER B 92.54962 100.0201 108.0191 69.68375 51.89742 41.16615	CFORMANC C 0.01797 -0.15386 -0.83627 -0.09812 0.09436 0.09512	CE at 2000 kg CR 1.38 1.35 1.32 1.54 1.78 2.07 2.27	/m^3 [1 PREC 0.35 0.22 0.14 0.12 0.11 0.12	25 pcf] ** CE 0.00 0.00 0.00 0.00 0.00 0.00 0.00	RMSE 0.70 0.43 0.27 0.23 0.23 0.24 0.28	į
10 12	18.99737 16.52368	34.82671 30.45946	0.07839	2.68	0.18	0.00	0.35	
		** MOIS	TURE CAL	BRATION	DATA *	**		
			LOW W	HIGH W				
			0.0	29.0				
			537.0	4944 0				
	** N	OISTURE P	ERFORMA	NCE at 160 k	(g/m^3	[10 pcf] **		
	A(F)	B(E)		CR	PF	REC	RMSE	
						15	0.33	
5	9.93009	3.53343	(2.11	0	.10	0.55	

b 577872

	14	G	lamma-Troi	n Services				
JNITS: SI					CA	LIB DATE	: 07/05/12	
JAGE MODEL:	C-MC1-DR	SER: 5428	8		CA	ATIR RAA:	1	
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		** DEN	SITY CALL	BRATION DA	\TA * *			
	DEPT	н	LOW	MED	F	lIGH		
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			002.0	16060.0		567.0		
	BS	22	715 0	10900.0 38340 0	27	385.0		
	AC	50	526.0	82612.0	56	462.0		
	5U 100	102	535.0	70644.0	45	477.0		
	150	77	380.0	49056.0	29	451.0		
	200	51	326.0	29460.0	16	5217.0		
	250	31	455.0	16832.0	8	955.0		
	300	18	559.0	9673.0	5	0.086.0		
DEPTH BS	4 A ** D 2.03015	ENSITY PEI B 1.48246	RFORMANO C 0.01797	CE at 2000 kg/ CR 1.38	/m^3 [125 PREC 5.61	pcf] ** CE 0.00	RMSE	
DEPTH BS AC 50 100 150 200 250 300	** D I A 2.03015 4.86138 11.22620 14.76459 17.65343 19.76323 18.99737 16.52368	ENSITY PEI B 1.48246 1.60212 1.73025 1.11619 0.83129 0.65940 0.55785 0.48790	C 0.01797 -0.15386 -0.83627 -0.09812 0.09436 0.09512 0.08443 0.07839	CE at 2000 kg/ CR 1.38 1.35 1.32 1.54 1.78 2.07 2.37 2.68	'm^3 [125 PREC 5.61 3.45 2.17 1.88 1.83 1.91 2.23 2.84	pcf] ** CE 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	RMSE 11.21 6.90 4.34 3.76 3.65 3.81 4.45 5.68	÷,
DEPTH BS AC 50 100 150 200 250 300	** D I A 2.03015 4.86138 11.22620 14.76459 17.65343 19.76323 18.99737 16.52368	ENSITY PEI B 1.48246 1.60212 1.73025 1.11619 0.83129 0.65940 0.55785 0.48790	RFORMANC C 0.01797 -0.15386 -0.83627 -0.09812 0.09436 0.09512 0.08443 0.07839	CE at 2000 kg/ CR 1.38 1.35 1.32 1.54 1.78 2.07 2.37 2.68	'm^3 [125 PREC 5.61 3.45 2.17 1.88 1.83 1.91 2.23 2.84	pcf] ** CE 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	RMSE 11.21 6.90 4.34 3.76 3.65 3.81 4.45 5.68	÷
DEPTH BS AC 50 100 150 200 250 300	** D I A 2.03015 4.86138 11.22620 14.76459 17.65343 19.76323 18.99737 16.52368	ENSITY PEI B 1.48246 1.60212 1.73025 1.11619 0.83129 0.65940 0.55785 0.48790	RFORMANC C 0.01797 -0.15386 -0.83627 -0.09812 0.09436 0.09512 0.08443 0.07839 STURE CAI	CE at 2000 kg/ CR 1.38 1.35 1.32 1.54 1.78 2.07 2.37 2.68	'm^3 [125 PREC 5.61 3.45 2.17 1.88 1.83 1.91 2.23 2.84	pcf] ** CE 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	RMSE 11.21 6.90 4.34 3.76 3.65 3.81 4.45 5.68	2
DEPTH BS AC 50 100 150 200 250 300	** D I A 2.03015 4.86138 11.22620 14.76459 17.65343 19.76323 18.99737 16.52368	ENSITY PEI B 1.48246 1.60212 1.73025 1.11619 0.83129 0.65940 0.55785 0.48790	RFORMANC C 0.01797 -0.15386 -0.83627 -0.09812 0.09436 0.09512 0.08443 0.07839 STURE CAI LOW W 0.0	CE at 2000 kg/ CR 1.38 1.35 1.32 1.54 1.78 2.07 2.37 2.68 LIBRATION I HIGH W 464.5	'm^3 [125 PREC 5.61 3.45 2.17 1.88 1.83 1.91 2.23 2.84	pcf] ** CE 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	RMSE 11.21 6.90 4.34 3.76 3.65 3.81 4.45 5.68	a, N
DEPTH BS AC 50 100 150 200 250 300	** D I A 2.03015 4.86138 11.22620 14.76459 17.65343 19.76323 18.99737 16.52368	ENSITY PEI B 1.48246 1.60212 1.73025 1.11619 0.83129 0.65940 0.55785 0.48790	RFORMANC C 0.01797 -0.15386 -0.83627 -0.09812 0.09436 0.09512 0.08443 0.07839 STURE CAI LOW W 0.0 537.0	CE at 2000 kg/ CR 1.38 1.35 1.32 1.54 1.78 2.07 2.37 2.68 LIBRATION I HIGH W 464.5 4944.0	'm^3 [125 PREC 5.61 3.45 2.17 1.88 1.83 1.91 2.23 2.84	pcf] ** CE 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	RMSE 11.21 6.90 4.34 3.76 3.65 3.81 4.45 5.68	
DEPTH BS AC 50 100 150 200 250 300	** D I A 2.03015 4.86138 11.22620 14.76459 17.65343 19.76323 18.99737 16.52368	PENSITY PEI B 1.48246 1.60212 1.73025 1.11619 0.83129 0.65940 0.55785 0.48790 ** MOI ** MOI	RFORMANC C 0.01797 -0.15386 -0.83627 -0.09812 0.09436 0.09512 0.08443 0.07839 STURE CAI LOW W 0.0 537.0 PERFORMA	CE at 2000 kg/ CR 1.38 1.35 1.32 1.54 1.78 2.07 2.37 2.68 LIBRATION I HIGH W 464.5 4944.0 ANCE at 160 k	'm^3 [125 PREC 5.61 3.45 2.17 1.88 1.83 1.91 2.23 2.84 DATA **	pcf] ** CE 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	RMSE 11.21 6.90 4.34 3.76 3.65 3.81 4.45 5.68	
DEPTH BS AC 50 100 150 200 250 300	** D I A 2.03015 4.86138 11.22620 14.76459 17.65343 19.76323 18.99737 16.52368 **] A(F)	DENSITY PEI B 1.48246 1.60212 1.73025 1.11619 0.83129 0.65940 0.55785 0.48790 ** MOI ** MOI	RFORMANC C 0.01797 -0.15386 -0.83627 -0.09812 0.09436 0.09512 0.08443 0.07839 STURE CAI LOW W 0.0 537.0 PERFORMA	CE at 2000 kg/ CR 1.38 1.35 1.32 1.54 1.78 2.07 2.37 2.68 LIBRATION I HIGH W 464.5 4944.0 ANCE at 160 k	'm^3 [125 PREC 5.61 3.45 2.17 1.88 1.83 1.91 2.23 2.84 DATA **	pcf] ** CE 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	RMSE 11.21 6.90 4.34 3.76 3.65 3.81 4.45 5.68	



LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY OFFICE OF ENVIRONMENTAL COMPLIANCE RADIATION LICENSING P.O. BOX 4312 BATON ROUGE, LOUISIANA 70821-4312

RADIOACTIVE MATERIAL LICENSE

Pursuant to the Louisiana Environmental Quality Act (Louisiana Revised Statutes 30:2101 et seq.) and the Louisiana Radiation Regulations, 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 for the purpose(s) and at the place(s) designated below. This license shall be deemed to contain the conditions specified in the Louisiana Revised Statutes 30:2105 of the Louisiana Nuclear Energy and Radiation Control Law, and is subject to all applicable rules, regulations, and orders of the Department new or hereinafter in effect, including the Louisiana Regulations (LAC 33:XV) and to any condition specified in the license.

GeoEngineers, Inc. 11955 Lakeland Park Blvd., Ste. 100 Baton Rouge, Louisiana 70809				0	LA-2453-L01 PREVIOUS AMENDMENTS ARE VOID AMENDMENT NUMBER 27 THIS LICENSE ISSUED PURSUANT TO AND IN ACC		September 31, 2014 AINUMBER 158661	
Atten	tion: M Ra	lichael J adiation	. Kohn Safety Officer		Letter signed BY: Michael	I J. Kohn	DATE: May 31, 2012	
RADIO	SOTOPE	MAXIMUM NUMBER OF	MAXIMUM ACTIVITY	SEALED SOURCE IDENTIFICA CHEMICAL FORM-PHYSICAL	STATE	STORAGE CONTAINER OR EXPOSORE DEV	AUTHORIZED UNE	
Cs Am (Am-	137 241 Be)	4 4 4	9 mCi 44 mCi	Troxler Dwg. A-102112 Troxler Dwg. A-102451		Troxler Model 3401B or 3411B Compac	Moisture/ Density Gauge	
Cs Am (Am-	137 241 Be)	1 1	10 mCi 50 mCi	CPN Model CPN-13	1	CPN Model MC S	eries Moisture Density Gauge	

1. A. Radioactive material shall be stored at:

GeoEngineers, Inc. AI 158661 11955 Lakeland Park Blvd., Ste. 100 Baton Rouge, LA 70809

B. Radioactive material shall be used only at temporary jobsites of the licensee, in areas **not** under exclusive Federal jurisdiction, throughout the State of Louisiana. Prior to operation at temporary jobsites, the licensee shall comply with applicable provisions of other regulations of the Department of Environmental Quality, and obtain all applicable state and local permits.

heryl Sonnier Nolan	93 94,2012	Page 1 of 3 Page(s)
ssistant Secretary		

	LOUISIANA DEPARTMENT RADIOACTIVE	OF ENVIRONMENTAL QUALIT MATERIAL LICENSE		
LICENSEE GeoEngineers, Inc.	LICENSE NUMBER LA-2453-L01	AMENDMENT NUMBER	AI NUMBER 158661	Page 2 of 3 Page(s)

- C. 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.
- 2. Radioactive material shall only be used by employees of this licensee, who have received specific instruction in the use of the devices and in radiation protection by the manufacturer or by persons approved by the Department, an Agreement State, or the U. S. Nuclear Regulatory Commission, and have been designated by the Radiation Safety Officer of this license.
- 3. The Radiation Safety Officer for this license is Michael J. Kohn.
- 4. A. Leak tests shall be conducted in accordance with LAC 33:XV.426.
 - B. The periodic leak tests required by LAC 33:XV.426 do not apply to the sealed sources that are stored and not being used. The sources excepted from this test shall be tested for leakage prior to use or transfer to another person, unless they have been leak tested within six (6) months prior to the date of transfer or use.
 - C. Leak test intervals may be extended to twelve (12) months or three (3) years for those devices which have been authorized by the Department, an Agreement State, a licensing state or the Nuclear Regulatory Commission for twelve (12) month or three (3) year testing intervals. For those devices, the licensee must maintain documentation from the manufacturer to support the twelve (12) month or three (3) year authorization.
- 5. Any cleaning, maintenance or repair of the gauges that require removal of the source rod shall be performed by the manufacturer or by other persons specifically licensed by the Department, an Agreement State or the Nuclear Regulatory Commission.
- 6. A. Source holders 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. The licensee shall conduct, at annual intervals, an inventory and inspection of all devices containing radioactive material which determines the general physical condition of all devices. Records shall be maintained for inspection by the Department and shall include, but not be limited to, the date of the inventory; the location and identification of the devices; the quantity and kinds of radioactive material; the sealed source identity; the findings of the physical inspection; and name of individual(s) performing the inspection and inventory.
- 8. The licensee shall maintain a utilization log for each licensed source or device. The utilization log shall include, but not be limited to, the identification of the device, dates of use, location of use, and the name of the authorized individual checking out the source or device.
- 9. A. Each portable device shall have a lock and outer locked container designed to prevent unauthorized or accidental removal of the sealed source from its shielded position.
 - B. The locked container shall have an additional lock to secure it in its storage location to prevent unauthorized removal of the device and container.

	LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY RADIOACTIVE MATERIAL LICENSE				
GeoEngineers, Inc.	LICENSE NUMBER LA-2453-L01	AMENDMENT NUMBER	AI NUMBER 158661	Page 3 of 3 Page(s)	

- C. The locks shall be used when the device is in transport, in storage, or when not under the direct surveillance of an authorized user.
- 10. The licensee shall adhere to the precautionary procedures and posting requirements of LAC 33:XV.Chapter 4. Subchapter G and 1011.
- 11. This license does not authorize the use of radioactive materials on humans or animals.
- 12. If, in an emergency, it becomes necessary for the licensee to evacuate the facility at which radioactive material is stored, it shall be the responsibility of the licensee to notify the Office of Environmental Compliance (225) 219-3041 prior to leaving. The licensee shall submit a detailed description of how the storage location was secured prior to leaving and the licensee's temporary address, phone number(s) or other means of being contacted. This information shall be kept updated until the licensee is able to return to the licensed storage location.
- 13. Online internet training from an Agreement State or NRC approved course for portable nuclear gauge safety training must be followed by hands on training from the Radiation Safety Officer or Manufacturer prior to the use of the gauge. A written record of the hands on training shall be maintained for inspection by the Department.
- 14. 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 LAC 33:XV and statements, representations, and procedures contained in the licensee's application (complete submission) dated September 1, 2009, and in all subsequent correspondence.

CSN:BJS

577872

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NRC FORM 374

U.S. NUCLEAR REGULATORY COMMISSION

PAGE <u>1</u> OF <u>4</u> PAGES Amendment No. 08

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 of Federal Regulations, Chapter I, Parts 30, 31, 32, 33, 34, 35, 36, 39, 40, and 70, 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 byproduct, source, and special nuclear material 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 regulations of the applicable Part(s). This license shall be deemed to contain the conditions specified in Section 183 of the Atomic Energy Act of 1954, as amended, and is subject to all applicable rules, regulations, and orders of the Nuclear Regulatory Commission now or hereafter in effect and to any conditions specified below.

Licensee	In accordance with letter dated				
	August 26, 2011				
1. GeoEngineers, Inc.	 License number 46-27696-01 is amended in its entirety to read as follows: 				
2 8410 154 th Avenue NE	4. Expiration date July 31, 2013				
Redmond WA 98052-3886	5 Docket No. 030-35685				
	Reference No.				
6. Byproduct, source, and/or special nuclear material 7. Chemical and/or physical f	form 8. Maximum amount that licensee may possess at any one time under this license				
A. Cesium-137 A. Sealed source	c., A: 10 millicuries per source and 20 millicuries total				
T Model CRIVISI	1 Stan is				
B. Americium-241:Be B. Shaled neutron source (CPN International, In Model/CPN=431)	B. 50 millicuries per source and c.,				
FIL WELL	State State				
	en les				
9. Authorized use:	L X				
A and B In CPN International, Inc., Model N	IC Series PORTAPROBE portable gauging devices				
for measuring physical properties of	of materials.				
	10112				
CONDITIONS					
10. Licensed material may be used or stored at the lice	nsee's facilities located at:				
A. 1525 South David Lane, Boise, Idaho,					
B. 3050 S. Delaware, Springfield, Missouri, and					
C. Temporary job sites anywhere in the United Sta maintains jurisdiction for regulating the use of lie jurisdiction within Agreement States.	tes where the U.S. Nuclear Regulatory Commission censed material, including areas of exclusive Federal				

NRC	FORM	U.S. NUCLEAR REGULATORY COMMISSION	PAGE 2 of 4 PAGES				
			License Number 46-27696-01				
		MATERIALS LICENSE	Docket or Reference Number 030-35685				
		SUPPLEMENTAN	Amendment No. 08				
	If th cor is a Agr reg	ne jurisdiction status of a Federal facility within an Age ntact the federal agency controlling the job site in que an area of exclusive Federal jurisdiction. Authorization reement States not under exclusive Federal jurisdiction julatory agency.	reement state is unknown, the licensee should stion to determine whether the proposed job site n for use of radioactive materials at job sites in on shall be obtained from the appropriate state				
11.	 Licensed materials may be used by, or under the supervision and in the physical presence of, individual who have received the training described in application dated March 14, 2001. 						
12.	A.	The Radiation Safety Officer (RSO) for this license is	Wayne Adams.				
	B.	Before assuming the duties and responsibilities as R successfully completed one of the training courses of NUREG-1556, Volume 1, Revision 1, dated Novemb	SO for this license, future RSOs shall have escribed in Criteria in Section 8.7 of er 2001.				
13.	A.	Sealed sources shall be tested for leakage and/or co intervals specified in the certificate of registration iss under 10 CFR 32.240 or by an Agreement State.	ontamination at intervals not to exceed the ued by U.S. Nuclear Regulatory Commission				
	В.	In the absence of a certificate from a transferor indic intervals specified in the certificate of registration iss under 10 CFR 32/210 or by an Agreement State prior received from another person shall not be put into us	ating that a leak test has been made within the ued by U.S. Nuclear Regulatory Commission is to the transfer, a sealed source or detector cell se until tested.				
	C.	Sealed sources need not be tested if they are in stor they are removed from storage for use or transferred within the required leak test interval, they shall be te shall be stored for a period of more than 10 years wit contamination.	age and are not being used. However, when the another person, and have not been tested sted before use of transfer. No sealed source thout being tested for leakage and/or				
	D.	The leak test shall be capable of detecting the prese radioactive material on the test sample. If the test re (185 becquerels) or more of removable contamination Regulatory Commission in accordance with 10 CFR immediately from service and decontaminated, repar Commission regulations. The report shall be filed wit known with the U.S. Nuclear Regulatory Commission Arlington, Texas 76011-4511, ATTN: Director, Division specify the source involved, the test results, and cor	ince of 0.005 microcuries (185 becquerels) of eveals the presence of 0.005 microcuries on, a report shall be filed with the U.S. Nuclear 30.50(c)(2), and the source shall be removed ired, or disposed of in accordance with thin 5 days of the date the leak test result is n, Region IV, 1600 East Lamar Boulevard, on of Nuclear Materials Safety. The report shall rective action taken.				
	E.	Tests for leakage and/or contamination shall be perfused. U.S. Nuclear Regulatory Commission or an Agreem the licensee is authorized to collect leak test sample test samples must be performed by persons specific Agreement State to perform such services.	formed by persons specifically licensed by the ent State to perform such services. In addition, s but not perform the analysis; analysis of leak ally licensed by the Commission or an				

F. Records of leak tests results shall be kept in units of microcuries and shall be maintained for 3 years.

NRC	FORM	U.S. NUCLEAR REGULATORY COMMISSION	PAGE 3 of 4 PAGES			
			License Number 46-27696-01			
		MATERIALS LICENSE	Docket or Reference Number 030-35685			
		00112	Amendment No. 08			
14.	 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, except as specifically authorized. 					
15.	5. The licensee shall conduct a physical inventory every 6 months, or at other intervals approved by the U.S. Nuclear Regulatory Commission, 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, and the date of the inventory.					
16.	6. Except for maintaining labeling as required by 10 CFR Part 20 or 71, the licensee shall obtain authorization from U.S. Nuclear Regulatory Commission 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.					
17.	Eac or a lock	th portable nuclear gauge shall have a lock or outer lock accidental removal of the sealed source from its shield and when in transport, storage or when not under the	cked container designed to prevent unauthorized ed position. The gauge or its container must be direct surveillance of an authorized user.			
18.	Any the U.S	cleaning, maintenance, or repair of the gauges that r gauge shall be performed only by the manufacturer o Nuclear Regulatory Commission or an Agreement S	equires detaching the source or source rod from r other persons specifically licensed by the fate to perform such services.			
19.	The l 10 C	licensee is authorized to transport licensed material o FR Part 71, "Packaging and Transportation of Radioa	nly in accordance with the provisions of other of the provision of the pro			
20.	A.	If the licensee uses unshielded sealed sources extended and other appropriate procedures to reduce the procedures to reduce the procedures to reduce the procedures to extend the or shall implement procedures to ensure that the cased measurements.	nded more than 3 feet below the surface, the he lowest depth to 12 inches above the surface ability of the source or probe becoming lodged casing 12 inches above the surface, the licensee I hole is free of obstruction before making			
	В.	If a sealed source or a probe containing sealed sour becomes apparent that efforts to recover the sealed licensee shall notify the U.S. Nuclear Regulatory Co 10 CFR 30.50(b)(2) and (c). The licensee shall not obtaining the Commission's prior written consent. N made to the NRC Emergency Operations Center at	ces becomes lodged below the surface and it source or probe may not be successful, the mmission and submit the report required by abandon the sealed source or probe without otification and reporting requirements should be 301-816-5100.			

NRC FORM 374A U.S. NUCLEAR REGULATORY COMMISSION	PAGE 4 of 4 PAGES
	License Number 46-27696-01
MATERIALS LICENSE	Docket or Reference Number 030-35685
SUPPLEMENTARY SHEET	Amendment No. 08
 21. Except as specifically provided otherwise in this license, it accordance with the statements, representations, and provided otherwise in this license, it accordance with the statements, representations, and provided otherwise in this license, it accordance with the statements, representations, and provided otherwise in this license, it accordance with the statements, representations, and provided otherwise in this license, it accordance with the statements, representations, and provided otherwise in this license, it accordance with the statements, representations, and procedures in the license, it according to the statements, representations, and procedures in the license, it according to the statements, representations, and procedures in the license, it according to the statements, representations, and procedures in the license, it according to the statements, representations, and procedures in the license, it according to the statements, representations, and procedures in the license, it according to the statements, representations, and procedures in the license, it according to the statements, representations, and procedures in the license, it according to the statements, representations, and procedures in the license, it according to the statements, representations, and procedures in the license, it according to the statements, representations, and procedures in the license, it according to the statements, representations, and procedures in the license, it according to the statements, representations, and procedures in the license, it according to the statements, representations, and procedures in the license, it according to the statements, representations, and procedures in the license, it according to the statements, representations, and procedures in the license, and the statements, representations, and procedures in the license, and the statements, representations, and the statements, representations, and the statements, representation, and the statements, representation, and the statement	he licensee shall conduct its program in ocdures contained in the documents, including ry Commission's regulations shall govern unless tensee's application and correspondence are
FOR TH	E U.S. NUCLEAR REGULATORY COMMISSION
Date: January 4, 2012 By: C	Lizethe Nollan -Olero izette Roldán-Otero, Ph.D., Health Physicist Iuclear Materials Safety Branch B Region IV Arlington, Texas 76011-4125

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NDC FORM 532	U. S. NUCLEAR REGULATORY COMMISSION
(1-2012)	
DATE DATE	
07/16/201	2
* 1417 - 100 - 100 * * * * *	
NAME AND ADDRESS OF APPLICANT AND/OR LICENSEE	LICENSE NUMBER
GeoEngineers, Inc.	46-27696-01
ATTN: Wayne Adams	MAIL CONTROL NUMBER
Radiation Safety Officer	577872
Redmond. WA 98052-3886	LICENSING AND/OR TECHNICAL REVIEWER
Koumona, arrivers const	ch
This is to acknowledge the receipt of your:	L
LETTER and/or APPLICATION	DATED: 07/13/2012
The initial processing, which included an administrative r	review, has been performed.
	W LICENSE RENEWAL
There were no administrative omissions identified during	ng our initial review.
This is to acknowledge receipt of your application for reabove. Your application is deemed timely filed, and acc final action has been taken by this office.	enewal of the material(s) license identified cordingly, the license will not expire until
Your application for a new NRC license did not include Please fill out NRC Form 531, located at the following l	your taxpayer identification number. ink:
http://www.nrc.gov/reading-rm/doc-c	collections/forms/nrc531.pdf
Send the completed NRC Form 531, by facsimile, to the	ne following number: (301) 415-5387
A copy of your action has been emailed to our License our Headquarters office in Rockville, MD. You will be involved.	Fee and Accounts Receivable Branch, in contacted separately if there is a fee issue
Your application has been assigned the above listed N calling to inquire about this action, please refer to this been forwarded to a technical reviewer. Please note the normally completed within 180 days for a renewal app may identify additional omissions or require additional concerning the processing of your application, our con	AIL CONTROL NUMBER. When control number. Your application has hat the technical review, which is lication (90 days for all other requests), information. If you have any questions tact information is listed below:
Region IV U. S. Nuclear Regulatory Commis DNMS/NMSB - B 1600 E. Lamar Boulevard Arlington, TX 76011-4511 (817) 200-1103 or (817) 200-1140	sion

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counts Receivable/Payable and gional Licensing Branches	INFORMATION FROM LTS Program Code: 03121 Status Code: Pending Amendment Fee Category: 3P Exp. Date: 04/30/2011 Fee Comments: Decom Fin Assur Regd: N
cense Fee Worksheet - License I	Fee Transmittal
REGION	
APPLICATION ATTACHED pplicant/Licensee: GEOENGINEERS, INC. leceived Date: 07/13/2012 Docket Number: 3035685 lail Control Number: 577872 license Number: 46-27696-01 liction Type: Amendment	
FEE ATTACHED	
COMMENTS Signed:	al Litie 7/16/12
LICENSE FEE MANAGEMENT BRANCH (Check wh	nen milestone 03 is entered / /)
. Fee Category and Amount:	
Correct Fee Paid. Application may be processed for Amendment:	
Renewal:	
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