



RECEIVED

JUN 22 2010

DNMS

June 15, 2010

Lizette Roldan, Ph.D.
Health Physicist
United States Nuclear Regulatory Commission, Region IV
612 East Lamar Blvd, Suite 400
Arlington, Texas 76011-4125
Ph: (817)-276-6596

Subject: Termination of License-Control Number 472652

Dear Ms. Roldan,

We are requesting to terminate the Nuclear Regulator Commission License 25-29355-01. The radioactive materials in question have been transferred to our Utah Office. Qal-Tec Associates LLC took temporary custody of the Nuclear Density Gauge in December of 2009. They performed all of the necessary calibrations and leak tests at that time. The gauge was then transferred to the PEC Utah office, where Derek Anderson, PEC Utah's RSO) signed for the gauge.

You had requested information concerning the Project Engineering Consultants, Ltd Utah license. I have attached a copy of their license for your review.

The proof of the transport and receipt of the gauge to the Utah licensee are also included as well as the most recent calibrations and leak test results for the Nuclear Density Gauge pertaining license 25-29355-01.

Thank you;
Project Engineering Consultants, Ltd.

Andrew Kimmel, EIT.
Radiation Safety Officer

Fred J. Ostler, P.E
Northwest Regional Manager

UTAH DEPARTMENT OF ENVIRONMENTAL QUALITY
DIVISION OF RADIATION CONTROL
RADIOACTIVE MATERIAL LICENSE

Pursuant to Utah Code Ann. Title 19, Chapter 3 and the Radiation Control Rules, Utah Administrative Code R313, and in reliance on statements and representations heretofore made by the licensee designated below, a license is hereby issued authorizing such licensee to transfer, receive, possess and use the radioactive material designated below; and to use such radioactive material for the purpose(s) and at the place(s) designated below. This licensee is subject to all applicable rules, and orders now or hereafter in effect and to any conditions specified below.

LICENSEE)	3. License Number UT 1800498
)	
1. Name)	*****
)	4. Expiration Date
2. Address)	June 30, 2012
8819 South Redwood Road, Suite C)	*****
West Jordan, Utah 84088)	5. License Category - 3-1

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(s) registered pursuant to R313-22-210 or an equivalent U.S. Nuclear Regulatory Commission or Agreement State regulation	A. Not to exceed 333 megabecquerels (9 mCi) per source
B. Americium-241	B. Sealed Neutron Source(s) registered pursuant to R313-22-210 or an equivalent U.S. Nuclear Regulatory Commission or Agreement State regulation	B. Not to exceed 1.63 gigabecquerels (44 mCi) per source

9. AUTHORIZED USE

A. & B. Sealed source(s) contained in compatible portable gauging devices (registered pursuant to R313-22-210 or an equivalent U.S. Nuclear Regulatory Commission or Agreement State regulation) for measuring properties of materials.

CONDITIONS

- Licensed material shall be used only at 552 West 8360 South, West Jordan, Utah and at temporary jobsites of the licensee anywhere in the State of Utah where the Division maintains jurisdiction.
- The licensee shall comply with the provisions of R313-18, "Notices, Instructions and Reports to Workers, by Licensees or Registrants--Inspections," and R313-15, "Standards for Protection Against Radiation."

UTAH DIVISION OF RADIATION CONTROL
RADIOACTIVE MATERIAL LICENSE
SUPPLEMENTARY SHEET

License # UT 1800498

12. Licensed material shall be used by, or under the supervision and in the physical presence of, the Radiation Safety Officer or individuals who have been trained in the licensee's standard operating and emergency procedures and have satisfactorily completed at least one of the following:
 - A. The device manufacturer's training course for safe use and handling of portable gauging devices containing licensed material; or
 - B. A portable gauge training program conducted in accordance with the provisions of a specific license issued by the Executive Secretary, an Agreement State or U.S. Nuclear Regulatory Commission.
13. The Radiation Safety Officer for the activities authorized by this license is Derek Anderson.
14.
 - A. Sealed sources shall be tested for leakage and/or contamination at intervals not to exceed the intervals specified in the certificate of registration issued by the U.S. Nuclear Regulatory Commission under 10 CFR 32.210 or by equivalent regulations of an Agreement State.
 - B. In the absence of a certificate from a transferor indicating that a leak test has been made within the intervals specified in the certificate of registration issued by the U.S. Nuclear Regulatory Commission under 10 CFR 32.210 or by equivalent regulations of an Agreement State prior to the transfer, a sealed source received from another person shall not be put into use until tested.
 - C. Sealed sources need not be tested if they are in storage and are not being used. However, when they are removed from storage for use or transferred to another person, and have not been tested within the required leak test interval, they shall be tested before use or transfer. No sealed source shall be stored for a period of more than 3 years without being tested for leakage and/or contamination.
 - D. The leak test shall be capable of detecting the presence of 185 becquerels (0.005 μCi) of radioactive material on the test sample. If the test reveals the presence of 185 becquerels (0.005 μCi) or more of removable contamination, a report shall be filed with the Executive Secretary in accordance with R313-15-1208, and the source shall be removed immediately from service and decontaminated, repaired, or disposed of in accordance with Utah Radiation Control Rules. The report shall be filed within 5 days of the date the leak test result is known with the Division of Radiation Control, P.O. Box 144850, Salt Lake City, Utah 84114-4850. The report shall specify the source involved, the test results, and corrective action taken.
 - E. The licensee is authorized to collect leak test samples, but not perform the analysis. Analysis of leak test samples must be performed by persons specifically licensed by the Executive Secretary, the U.S. Nuclear Regulatory Commission, or an Agreement State to perform such services. Alternatively, tests for leakage and/or contamination, including sample collection and analysis, may be performed by other persons specifically licensed by the Executive Secretary, the U.S. Nuclear Regulatory Commission, or an Agreement State to perform such services.

UTAH DIVISION OF RADIATION CONTROL
RADIOACTIVE MATERIAL LICENSE
SUPPLEMENTARY SHEET

License # UT 1800498

- F. Records of leak test results shall be kept in units of becquerels or microcuries and shall be maintained for inspection by representatives of the Executive Secretary.
15. 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 licensed by the Executive Secretary, an Agreement State, or the U.S. Nuclear Regulatory Commission to perform such service.
16. The licensee shall conduct a physical inventory every six months to account for all devices received and possessed under the license. The records of the inventories shall be maintained for three years from the date of the inventory for inspection by the Division, and shall include the quantities and kinds of radioactive material, manufacturer's name and model numbers, location of the devices, and the date of the inventory.
17. Each portable gauging device 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.
18. A. The licensee shall perform any cleaning or routine maintenance of a portable gauging device in accordance with manufacturer's recommendations and instructions. Routine maintenance is maintenance that does not require the source or source rod to be detached from the gauge.
- B. Any cleaning, maintenance, or repair of the gauges 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 the Executive Secretary, an Agreement State, or the U.S. Nuclear Regulatory Commission to perform such services.
19. The licensee may transport licensed material or deliver licensed material to a carrier for transport in accordance with the provisions of R313-19-100 "Transportation."
20. The licensee shall notify the Executive Secretary in writing when the licensee decides to permanently discontinue activities involving materials authorized under the license and shall report the disposition of licensed material to the Executive Secretary.
21. In addition to the possession limits in Item 8, the licensee shall further restrict the possession of licensed material to quantities below the minimum limit specified in R313-22-35(4) for establishing decommissioning financial assurance.
22. Except as specifically provided otherwise by 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 Utah Radiation Control Rules shall govern unless the statements, representations, and procedures in the licensee's application and correspondence are more restrictive than the rules.

UTAH DIVISION OF RADIATION CONTROL
RADIOACTIVE MATERIAL LICENSE
SUPPLEMENTARY SHEET

License # UT 1800498

- A. Application dated August 15, 2006 [LA# 239-2006]
- B. Letter dated May 17, 2007 [LA# 239-2006]
- C. Facsimile transmittal dated May 17, 2007 (received May 21, 2007) [LA# 239-2006]
- D. Facsimile transmittal dated May 22, 2007 [LA# 239-2006]

UTAH RADIATION CONTROL BOARD

Date June 5, 2007

Dane L. Finerfrock
Dane L. Finerfrock, Executive Secretary

3998 Commerce Circle
Idaho Falls, Idaho 83401
Ph: 208 523-5557
Fax: 208 524-8470



**Qal-Tek
Associates**

NUCLEAR DENSITY GAUGE SERVICE REQUEST

Please complete sections 1 - 4, sign and return this form with your Gauge.

1: CUSTOMER & LICENSE INFORMATION

Contact: Jeremy Robbins Andrew Kimmel

P.O. # if required _____

Phone: 208-466-7190

Fax: 208-466-7168

License #: _____

Expiration Date: _____

Company Name: Project Engineering Consultants, Ltd.

Bill To: _____

Return Shipping Address: 3818 E. Newby St. Suite 101

Nampa, ID, 83687

2: GAUGE INFORMATION

Gauge Make, _____

Model & Serial #: Troxler 3450 1035

Current Leak Test Date: _____

12/01/09

Services Needed: ☐ A2LA Calibration

☒ Std. Calibration

☐ Clean Lube

☒ Leak Test

☐

Repair / Check out

Please list repairs
needed and / or
operational
problems in detail:

3: AUTHORIZATION

Temporary custody of above listed Nuclear Density Gauge is hereby granted to - Qal-Tek Associates LLC,

NRC License # 11-27610-01

Authorized By: _____

Received By: _____

Title: _____

Date: _____

4: RETURN SHIPPING

☐ Prepaid & Bill

☐

COD

☐

Customers Account#

☐ Motor Freight

FedEx

☐

1Day

☐

2Day

☐

3Day

☒

Other drop of

RETURN RECEIPT

Received By:
or Carrier & PRO#

Custody of above listed Nuclear Density Gauge is returned to above listed Customer.

Released By: _____

Date: _____

BILL OF LADING

Carrier: Qal-Tek Associates

Destination: Qal-Tek Associates

3998 Commerce Cir.

3998 Commerce Cir.

Idaho Falls, ID 83401

Idaho Falls, ID 83401

NO	HM	DESCRIPTION OF MATERIALS, PACKAGING AND SPECIAL MARKING
1	RQ	Radioactive Materials, TYPE A PACKAGE, SPECIAL FORM, 7, UN3332 Cs-137 0.3 to 0.37 GBq (8 - 10 mCi) and Am-241:Be 1.48 GBq (40mCi) RADIOACTIVE - YELLOW II LABEL TRANSPORTATION INDEX = 0.1 TO 0.5 USDOT 7A TYPE A PACKAGE Emergency Response TELEPHONE (208) 523-5557 , (208) 749-2414

This is to certify that the above named materials are properly classified, described, packaged, marked and labeled,
and are in proper condition for transportation according to the applicable regulations of the U.S. DOT.

Certificate of Calibration

3998 Commerce Circle
Idaho Falls, Idaho 83401
Ph: 888 523-5557
www.qaltek.com



Customer: Project Engineering Consultants, Ltd.
Address: 3818 E. Newby St. Suite 101
Phone: 208-466-7190

Att.: Andrew Kimmel
City: Nampa

Calibration Location: Idaho
State: ID Zip: 83687

Serial Number: 1035

Mfg: Troxler

Model: 3450

Ref. #: S1835-09

Calibration Date: 19-Dec-2009

Calibration /Ver. 19-Dec-2010
Due Date:

3450 Thin Lift Mode Nuclear Density Gauge 3 Block Calibration

As Found Readings							Received Condition: In Tolerance		
Thickness	Wet Density PCF	Magnesium Std. PCF	Error PCF	Wet Density PCF	Mag / Al Std. PCF	Error PCF	Wet Density PCF	Aluminum Std. PCF	Error PCF
1	109.9	109.8	0.1332	136.9	136.2	0.6653	161.8	160.6	1.2102
2	110.9	109.8	1.1332	135.4	136.2	-0.835	161.4	160.6	0.8102
2.5	109.4	109.8	-0.367	135.2	136.2	-1.035	161.2	160.6	0.6102
3	109.8	109.8	0.0332	135.8	136.2	-0.435	161.3	160.6	0.7102
4	109.4	109.8	-0.367	135.6	136.2	-0.635	160.9	160.6	0.3102

As Left Readings							Returned Condition: In Tolerance		
Thickness	Wet Density PCF	Magnesium Std. PCF	Error PCF	Wet Density PCF	Mag / Al Std. PCF	Error PCF	Wet Density PCF	Aluminum Std. PCF	Error PCF
1	109.2	109.8	-0.567	135.7	136.2	-0.535	160.4	160.6	-0.19
2	110.3	109.8	0.5332	136.9	136.2	0.6653	161.5	160.6	0.9102
2.5	110.1	109.8	0.3332	137	136.2	0.7653	160.8	160.6	0.2102
3	110.6	109.8	0.8332	137.2	136.2	0.9652	1607	160.6	1446.4
4	110	109.8	0.2332	136.9	136.2	0.6653	160.8	160.6	0.2102

Out of tolerance readings are bold / italicized.

As Found Tolerance = +/- 2 PCF

As Left Tolerance = +/- 1 PCF

Gauge Calibration Information

	System 1 Counts	System 2 Counts
Standard Count =	7344	2253
Mag Bock Counts =	19134	4345
Mag/Al Bock Counts =	16938	3190
Al Bock Counts =	14164	2302

Measurement 111 lb/ft³ 0.5 lb/ft³
Uncertainty, 137 lb/ft³ 0.1 lb/ft³
U = 2u_C 169 lb/ft³ 1.32 lb/ft³
Calibration Procedure: CP-PRO-601

Gauge Coefficients

A1	-0.194117116	P1	0.880862
B1	-0.012489332	Q1	1.494503
C1	-3.373942774	R1	0.00799
A2	6.655009442	P2	1.1259721
B2	0.007062543	Q2	1.170781
C2	1.099187864	R2	0.003545

Calibration Standard Blocks used -

	SN.	Mfg.	Date	Den
Magnesium	30-MAG	Humboldt	3/28/06	111.1
Mag/Al	30-MAG/AL	Humboldt	3/28/06	137.75
Aluminum	10-AL	Humboldt	3/28/06	169.22
Poly	30-POLY	Humboldt	11/13/07	31.04

Service Technician :

Ethan Howell

Date of service :

12/19/09

Results relate only to item calibrated. Uncertainty of measurement was estimated at the 95% confidence level, (k=2).

This Certificate of Calibration shall not be reproduced except in full, without the written approval of Qal-Tek Associates

meets or exceeds the requirements set forth in the following documents: ANSI / NGSL Z540-1 1994 and ISO / IEC 17025.

19-Dec-2009

Page 2 of 2

S/N 1035

Certificate of Calibration

3998 Commerce Circle
Idaho Falls, Idaho 83401
Ph: 888 523-5557
www.qaltek.com



Qal-Tek
Associates

Customer: Project Engineering Consultants, Ltd.
Address: 3818 E. Newby St. Suite 101
Phone: 208-466-7190

Att.: Andrew Kimmel
City: Nampa

Calibration Location: Idaho
State: ID Zip: 83687

Serial Number: 1035

Mfg: Troxler

Model: 3450

Ref. #: S1835-09

Calibration Date: 19-Dec-09

3450 Soil Mode Nuclear Density Gauge 3 Block Calibration

Calibration / Ver. 19-Dec-10
Due Date:

As Found Readings									Received Condition:			
Depth-	Counts	Wet Density PCF	Magnesium Std. PCF	Error PCF	Counts	Wet Density PCF	Mag / Al Std. PCF	Error PCF	Counts	Wet Density PCF	Aluminum Std. PCF	Error PCF
BS	4387	109	109.8	-0.667	3210	133.4	134.2	-0.768	2308	163.7	163.1	0.5719
2	8110	110	109.8	0.0332	5460	133.5	134.2	-0.668	3478	162.9	163.1	-0.228
4	36797	109	109.8	-0.667	28156	133.1	134.2	-1.069	19946	162.5	163.1	-0.628
6	25837	110	109.8	-0.067	18198	133.2	134.2	-0.969	11624	162.7	163.1	-0.428
8	16412	110	109.8	0.1332	10585	133.7	134.2	-0.469	6233	162.7	163.1	-0.428
10	9923	110	109.8	-0.067	6009	133.7	134.2	-0.469	3519	162.9	163.1	-0.228
12	6024	109	109.8	-0.367	3614	133.9	134.2	-0.268	2355	162.2	163.1	-0.928
Counts		Moist. Den. PCF	Magnesium Low M. Std.	Error PCF	Counts	Moist. Den. PCF	Poly High M. Std.	Error PCF				
Moisture		35	0	0	687		31.1	31.04	0.06			

As Left Readings						Returned Condition:		In Tolerance	
Depth-	Wet Density PCF	Magnesium Std. PCF	Error PCF	Wet Density PCF	Mag / Al Std. PCF	Error PCF	Wet Density PCF	Aluminum Std. PCF	Error PCF
BS	110	109.8	0.2	134.8	134.2	0.6	163.8	163.1	0.7
2	110.3	109.8	0.5	134.1	134.2	-0.1	163.2	163.1	0.1
4	109.7	109.8	-0.1	134.6	134.2	0.4	163.2	163.1	0.1
6	109.7	109.8	-0.1	134.4	134.2	0.2	163	163.1	-0.1
8	109.7	109.8	-0.1	134.6	134.2	0.4	163.4	163.1	0.3
10	109.8	109.8	0.0	134.2	134.2	0.0	163	163.1	-0.1
12	109.3	109.8	-0.5	134.2	134.2	0.0	163.4	163.1	0.3
	Moist. Den. PCF	Magnesium Low Moist. Std.	Error PCF	Moist. Den. PCF	Poly High Moist.Std	Error PCF			
Moisture	-0.24	0	-0.24	30.5	31.04	-0.54			

Out of tolerance readings are **bold / italicized**.

As Found Tolerance = +/- 2 PCF

As Left Tolerance = +/- 1 PCF

Gauge Coefficients

Depth-	A	B * 1000	C	Moisture
BS	2.21686	1.02216	-0.08786	E 0.02919
				F 1.09370
2	5.42690	1.08750	-0.04790	
4	12.28373	0.52208	1.04946	Sys 1 Density Standard 7344
6	11.81760	0.75549	0.42326	Sys 2 Density Standard 2253
8	11.97396	1.09085	0.03921	Moisture Standard 1199
6	12.47437	1.47208	-0.10238	
12	14.44935	1.94271	-0.15657	

Results relate only to item calibrated. Uncertainty of measurement was estimated at the 95% confidence level, (k=2).

This Certificate of Calibration shall not be reproduced except in full, without the written approval of Qal-Tek Associates

All reference standards used are traceable to NIST. Qal-Tek Associates maintains a quality system (Quality Assurance Management Plan) that meets or exceeds the requirements set forth in the following documents: ANSI / NGSL Z540-1 1994 and ISO / IEC 17025.



www.qaltek.com

8000 Anderson Square
Austin, Texas 78757
Ph: (512) 407-9252

Qal-Tek Associates
3998 Commerce Circle
Idaho Falls, Idaho 83401
Ph: (208) 523-5557
Fax: (208) 524-8470

3217 W Hampden
Englewood, CO 80110
Ph: (303) 319-2022

SEALED RADIOACTIVE SOURCE LEAK TEST REPORT

Company: Project Engineering Consultants, Ltd.

Acct#: 101538 Ref #: W0310-09

Street: 3818 E. Newby St. Suite 101

City/St/Zip: Nampa, ID 83687

Phone: 208-466-7190

Fax:

LT Frequency: 6 Months

TEST INSTRUMENT

Mfg'r:	NE Bicorn	Model:	Electra	Serial #:	K148-469	Cal. Date:	10/19/09
MDA:	<0.005 μ Ci	α efficiency:	>25%	β efficiency:	>33%	Det. Type:	ZnS (Ag)

Qal-Tek Associates certify the above instrument has been calibrated using radioactive standards traceable to NIST, or traceable to calibration facilities for other ISO members, or have been derived from acceptable values of natural/physical constraints, or have been derived by ratio type of calibration techniques. Accuracy of the principal radiation calibration sources used is greater than or equal to the required accuracy of the equipment being calibrated. The Qal-Tek Associates calibration system conforms to ANSI N323-1997. All calibrations are performed in accordance with the Qal-Tek Associates Quality Assurance Management Program (QAMP) by QP-PRO-001, which is available by written request.

LEAK TEST RESULTS

Mfg'r	Model #	Inst. Serial #	Isotope	Activity		net α CPM	net b/g CPM	pass/fail
Troxler	3450	1035	AM241	40 mCi		1	9	pass
			Cs137	8 mCi		1	9	pass

Date Sources Leak Tested:

12/01/09

Next Leak Test Due:

06/02/10

Qal-Tek Associates certifies that all leak test measurements are performed in accordance with NRC licensee requirements for isotopic detection limits. For this purpose the MDA is below the NRC regulatory limits of <0.005 μ Ci

Instrument Technician

Rod Wickham

12/01/09

Date