

**Safety review of licensing action  
Department of the Interior, Bureau of Land Management  
Mail control 574671**

The licensee requested removal of the following locations of use listed in NRC License number 49-23316-01.

101 South 23rd Street, Worland, Wyoming	<b>release for unrestricted use</b>
280 Highway 191 North, Rock Springs, Wyoming	<b>release for unrestricted use</b>
1300 North 3rd Street, Rawlins, Wyoming	<b>release for unrestricted use</b>
2987 Prospector Drive, Casper, Wyoming	<b>release for unrestricted use</b>
2815 H Road, Grand Junction, Colorado	<b>release for unrestricted use</b>
106 N. Parkmont, Butte, Montana	<b>release for unrestricted use</b>
435 Montano N.E., Albuquerque, NM	<b>release for unrestricted use</b>

The reviewer requested the licensee to provide copies of leak test results for the gauges stored at these locations.

According to the licensee, they never had gauges at the Worland, Wyoming, and Rawlins, Wyoming, offices. Negative leak tests were provided by the licensee for the Rock Springs, WY office; Casper, Wyoming office; Grand Junction, Colorado office; Butte, Montana office; and Albuquerque, New Mexico office (see enclosures).



Roberto J. Torres  
Senior Health Physicist  
May 20, 2011

**Torres, RobertoJ**

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**From:** adeutsch@blm.gov  
**Sent:** Friday, May 20, 2011 10:05 AM  
**To:** Torres, RobertoJ; slowderm@blm.gov  
**Subject:** RE: Request for additional information  
**Attachments:** Grand Junction Leak Test.pdf

Roberto, this is the last leak test from the Colorado file.

Shorty, This is the last leak test in the Colorado file that was in the box . Shorty I am sending the Colorado and Wyoming files back to you as I think they must of got boxed with Montana's files when they got sent here.

(See attached file: Grand Junction Leak Test.pdf)

"Torres,  
RobertoJ"  
<RobertoJ.Torres@nrc.gov>  
"adeutsch@blm.gov"  
<adeutsch@blm.gov>  
05/17/2011 03:52 PM  
Subject  
RE: Request for additional  
information

To  
cc

Thank you for the information. What is pending is receipt of leak test result for the gauge or gauges that were last stored in Grand Junction, Colorado.

-----Original Message-----

From: [adeutsch@blm.gov](mailto:adeutsch@blm.gov) [mailto:[adeutsch@blm.gov](mailto:adeutsch@blm.gov)]  
Sent: Tuesday, May 17, 2011 4:35 PM  
To: [slowderm@blm.gov](mailto:slowderm@blm.gov)  
Cc: Torres, RobertoJ; [gbergum@blm.gov](mailto:gbergum@blm.gov)  
Subject: Re: Request for additional information

Shorty, We no longer have the Troxler 3440 serial number 26702. As you recall this was sent back to Troxler as per Eric Decker's email on 1 April regarding transfer of ownership. If the license reads upto 3 gauges that is

fine that gives us the option to add one if ever needed depending on work load. But we currently only have two troxlers in our current inventor.

30



**Troxler Electronic Laboratories, Inc.**

3008 Cornwallis Rd., P.O. Box 12057  
Research Triangle Park, NC 27709  
Tel: (877) 876-9537 Fax: (919) 485-2250

License: NC 032-0182-1

**LEAK TEST CERTIFICATE**

**DEVICE:**

Model: 3430

Serial No: 22552

Sample Date: 8/24/04

**SEALED SOURCES:**

SERIAL NO.	MEASURE DATE	NUCLIDE	ACTIVITY	
			(GBq)	(mCi)
47-18388	4/16/1993	AM-241:BE	1.48	40
75-4286	6/8/1993	CS-137	0.296	8

**LEAK TEST ANALYSIS:**

Sample measured on: 8/27/2004 at 10:16:56 AM

	ALPHA	BETA-GAMMA
Conversion factor (cpm/Bq)	1.30E+01	2.11E+01
Background measurement (cpm)	0	23
Sample measurement (cpm)	0	29
Activity (Bq)	< MDA	< MDA
Min. Detectable Activity (Bq)	2.1E-01	1.2E+00

This certifies that the above leak test results are:

Less than 185 Bq (0.005 uCi)       Greater than 185 Bq (0.005 uCi)

Certified by: Harry Pendleton

If greater than 185 Bq (0.005 uCi):

Person Notified \_\_\_\_\_ Date \_\_\_\_\_

Phone \_\_\_\_\_ and/or Fax \_\_\_\_\_

## Torres, RobertoJ

---

**From:** adeutsch@blm.gov  
**Sent:** Tuesday, May 17, 2011 4:35 PM  
**To:** slowderm@blm.gov  
**Cc:** Torres, RobertoJ; gbergum@blm.gov  
**Subject:** Re: Request for additional information  
**Attachments:** 26702\_Transfer Ownership to Troxler.pdf; ~OT4910P000F.pdf; ~OT4911P000F.pdf; ~OT4912P000F.pdf; ~OT4913P000F.pdf; ML11087A056.pdf

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(See attached file: 26702\_Transfer Ownership to Troxler.pdf)

Shorty  
Lowdermilk/WYSOW  
Y/BLM/DOI

To  
"Torres, RobertoJ"  
<RobertoJ.Torres@nrc.gov>  
cc  
"adam\_deutsch@blm.gov"  
<adam\_deutsch@blm.gov>  
Subject  
Re: Request for additional  
information(Document link: Adam  
Deutsch)

05/17/2011 02:17  
PM

I do not have tests for the Worland and Rawlins because they never had gauges at those offices. They were on the license so when they used one of the gauges in Wyoming they had an approved storage area. I did find the following reports for Rock Springs, Casper, Butte, and Albuquerque. I have contacted Grand Junction, CO office and asked for a copy of the last leak test performed there. They have not had gauges there for quite a while, all of there's were turned in to Troxler and all had negative responses on their leak tests.

(See attached file: ~OT4910P000F.pdf) (See attached file: ~OT4911P000F.pdf) (See attached file: ~OT4912P000F.pdf)(See attached file: ~OT4913P000F.pdf)

Rhonda Lowdermilk  
Budget Analyst

Wyoming BLM  
5353 Yellowstone Road  
Cheyenne, WY 82009  
(307) 775-6096  
rhonda\_lowdermilk@blm.gov

Shorty Lowdermilk  
Wyoming BLM State Safety Manager  
5353 Yellowstone Rd.  
Cheyenne, WY 82009  
(307) 775-6269 (w)  
(307) 775-6317 fax  
(307) 631-9502 cell  
"Safety does come in cans, I CAN, YOU CAN, WE CAN"

"Torres,  
RobertoJ"  
<RobertoJ.Torres@nrc.gov> To  
"shorty\_lowdermilk@blm.gov"  
<shorty\_lowdermilk@blm.gov>  
05/17/2011 01:01 PM cc  
"adam\_deutsch@blm.gov"  
<adam\_deutsch@blm.gov>  
Subject  
Request for additional information

Mr. Lowdermilk:

I am working on amending license 49-23316-01 to change the radiation safety officer (RSO) from you to Adam R. Deutsch and removing locations of use as requested in letter dated March 8, 2011 (see attachment). The training certificate received by fax for Mr. Deutsch is sufficient for me to add him to the license as RSO. Please provide the following information to enable me to complete this licensing action.

1. Provide copy of leak test results for all the portable gauges that were last stored in Worland, WY; Rock Springs, WY; Rawlins, WY; Casper, WY; Grand Junction, CO; Butte, Montana; and Albuquerque, NM. This information is needed to release all these location for unrestricted use (i.e., remove these locations from the license).
2. This office has received copies of the most recent leak test results for 3 gauges (your current inventory): Troxler 3440 (serial 26702), Troxler 3440 (serial 26703), and Troxler 3440 (serial 39278). NRC licenses are now issued establishing maximum possession limits (i.e., establishing maximum amount of gauges that you can have).

License 49-23316-01 will be amended to authorize 3 Troxler 3400 Series gauges or any other number of gauges based on your operational needs. Let me know what authorization do you want: total of 3 Troxler 3400 Series gauges, or some other total number of Troxler 3400 Series gauges.

Please provide your response within 5 business days either by reply email as a pdf file or by facsimile to 817-860-8263. Please make reference to mail control number 574671 and send to my attention. Thank you.

Roberto J. Torres  
Senior Health Physicist  
U.S. Nuclear Regulatory Commission - Region IV Division of Nuclear Materials Safety Nuclear Materials Safety Branch B  
612 East Lamar Boulevard, Suite 400  
Arlington, Texas 76011-4125  
Telephone 817-860-8189  
Facsimile 817-860-8263  
robertoj.torres@nrc.gov  
(See attached file: ML11087A056.pdf)



Troxler Electronic Laboratories, Inc. - Troxler International, Ltd.  
3008 Cornwallis Road, P.O. Box 12067, Research Triangle Park, NC 27709 - USA  
Telephone: 919/549-8661 Telefax: 919/549/0761

3PM MAR 31 PM 1:34  
LEWISTON & FIELD  
STATE OF MONTANA  
LEWISTON, MT

March 25, 2011

U.S. Department of Interior  
Bureau of Land Management  
Attn: Eric Decker  
920 N.E. Main Street  
Lewiston, MT 59457

Attn: Eric Decker

This is to acknowledge receipt and transfer of ownership of the nuclear gauge(s) listed below, and the radioactive sources contained therein, to Troxler under North Carolina Radioactive Material License #032-0182-1. You should retain this letter in your files for future reference.

Date Received: 03-24-11

Job Number  
17760

Model  
3440

Serial Number  
26702

Regards,

Emily Davis  
Service/Repair Department  
Troxler Electronics



## Torres, RobertoJ

---

**From:** slowderm@blm.gov  
**Sent:** Tuesday, May 17, 2011 3:17 PM  
**To:** Torres, RobertoJ  
**Cc:** adam\_deutsch@blm.gov  
**Subject:** Re: Request for additional information  
**Attachments:** ~OT4910P000F.pdf; ~OT4911P000F.pdf; ~OT4912P000F.pdf; ~OT4913P000F.pdf; ML11087A056.pdf

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"Safety does come in cans, I CAN, YOU CAN, WE CAN"

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<RobertoJ.Torres@nrc.gov>  
05/17/2011 01:01 PM  
To  
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<[shorty\\_lowdermilk@blm.gov](mailto:shorty_lowdermilk@blm.gov)>  
cc  
"adam\_deutsch@blm.gov"  
<[adam\\_deutsch@blm.gov](mailto:adam_deutsch@blm.gov)>  
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Request for additional information

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[robertoj.torres@nrc.gov](mailto:robertoj.torres@nrc.gov)  
(See attached file: ML11087A056.pdf)



www.qaltek.com  
Qal-Tek Associates

7801 N Lamar, Ste E204  
Austin, Texas 78752  
Ph: (512) 407-9252

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

712 S Hacienda Dr. Ste 6  
Tempe, AZ  
Ph: (480) 304-5199

### SEALED RADIOACTIVE SOURCE LEAK TEST REPORT

Company: **BLM Rock Springs** Acct#: \_\_\_\_\_ Ref #: **S10-1477**  
 Street: **280 Highway 191 N**  
 City/ST/Zip: **Rock Springs WY 82901**  
 Phone: **307-352-0265** Fax: **307-352-0329** LT Frequency: **6** Months

### TEST INSTRUMENT

Mfg'r.:	<b>Ludlum</b>	Model:	<b>3030_1</b>	Serial #:	<b>219695</b>	Cal. Date:	<b>7/22/2010</b>
MDA:	<b>&lt;0.005 µCi</b>	α efficiency:	<b>37%</b>	β efficiency:	<b>38%</b>	Det. Type:	<b>ZnS (Ag)</b>

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	net α µCi	net b/g µCi	pass/fail
Troxler	3440	31870	AM241	40 mCi	0	33	0.000000	0.000077	<b>P</b>
			Cs137	8 mCi	0	33	0.000000	0.000077	<b>P</b>

Date Sources Leak Tested:  
8/5/2010

Next Leak Test Due:  
2/4/2011

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 µCi

  
 Tracy Brunson  
 Instrument Technician

8/6/2010  
 Date



# Troxler Electronic Laboratories, Inc.

3008 Cornwallis Rd., P.O. Box 12057  
Research Triangle Park, NC 27709  
Tel: (877) 876-9537 Fax: (919) 485-2250

License: NC 032-0182-1

## LEAK TEST CERTIFICATE

CASPER DENSITY GAUGE

### DEVICE:

Model: 3440                      Serial No: 30447

### SEALED SOURCES:

SERIAL NO.	MEASURE DATE	NUCLIDE	ACTIVITY	
			(GBq)	(mCi)
47-27512	8/4/1998	AM-241:BE	1.48	40
750-4919	3/16/1999	CS-137	0.296	8

### LEAK TEST ANALYSIS:

Sample collected on: 02/15/2005

Sample analyzed on: 02/18/2005 at 10:42:00 AM

Analyzed by: J.OLSEN

	ALPHA	BETA-GAMMA
Conversion factor (cpm/Bq)	1.30E+01	2.09E+01
Background measurement (cpm)	0	24
Sample measurement (cpm)	1	29
Activity (Bq)	< MDA	< MDA
Min. Detectable Activity (Bq)	4.4E-01	1.2E+00

This certifies that the above leak test results are:

Less than 185 Bq (0.005 uCi)                       Greater than 185 Bq (0.005 uCi)

If greater than 185 Bq (0.005 uCi):

Person Notified \_\_\_\_\_ Date \_\_\_\_\_

Phone \_\_\_\_\_ and/or Fax \_\_\_\_\_



Troxler Electronic Laboratories, Inc.

3008 Cornwallis Rd., P.O.Box 12057  
Research Triangle Park, NC 27709  
Tel: (919) 549-8661 Fax: (919) 549-0761

License: NC 032-0182-1

Butte, MT

LEAK TEST CERTIFICATE

DEVICE:

Model: 3411 Serial No: 4223 Sample Date: 5-17-03

SEALED SOURCES:

NUCLIDE	SERIAL NO.	INITIAL ACTIVITY (mCi)	CURRENT ACTIVITY (mCi)
CS-137	40 - 1221	8.7	4.9
AM-241:BE	47 - 257	40.0	38.4

LEAK TEST ANALYSIS:

The sample has been analyzed using a counting system capable of measuring beta, gamma, and alpha contamination.

Date of last calibration: 12/15/00

	ALPHA	BETA-GAMMA
Conversion factor (cpm/uCi)	4.77E+05	7.61E+05
Background measurement (cpm)	0	22
Sample measurement (cpm)	0	22
Activity (uCi)	< MDA	< MDA
Min. Detectable Activity (uCi)	5.7E-06	3.2E-05

This certifies that the above leak test results are:

Less than 0.005 uCi (185 Bq)  Greater than 0.005 uCi (185 Bq)

Measurement Date: 5/22/01 Certified by: [Signature]

If greater than 0.005 uCi (185 Bq):

Person Notified \_\_\_\_\_ Date \_\_\_\_\_

Phone \_\_\_\_\_ and/or Fax \_\_\_\_\_



Advanced Instrumentation for Density  
& Moisture Testing of Soils & Pavements

CPN International, Inc.  
4057 Port Chicago Highway, Suite 100  
Concord, CA 94520 USA  
Phone: (925) 363-9770  
Fax: (925) 363-9385  
e-mail: cpn@cpn-intl.com

RECEIVED  
BLM  
08 FEB 19 AM 11:03  
030 ALBUQUERQUE, NM

# CERTIFICATE OF LEAK TEST

USDA-BLM  
ATTN: TOM CHAVEZ  
435 MONTANO BLVD. N.E.  
ALBUQUERQUE, NM 87107

Customer No: 22063500  
Date Sample Collected: 1/22/2008  
Test Number: 50480

This is to certify that the leak test on the indicated source (s) was counted on 2/8/2008 and the results shown accurately represent the level of removable contamination.

Model: MC-3

Source(s)/Gauge Serial Number: M38048173

<u>Source</u>	<u>Activity</u>	<u>* Removable Contamination (in microCuries)</u>
AmBe 241	50 mCi	.0000033
Cs 137	10 mCi	.0000184

\* 0.005 microcuries (185 Bq) or greater constitutes a leaking source.

This Source : May Remain in use.

*Mona Lau*

Reviewed by: Leak Testing Quality Control  
CA License No. 1100-07

## Torres, RobertoJ

---

**From:** Torres, RobertoJ  
**Sent:** Tuesday, May 17, 2011 2:01 PM  
**To:** 'shorty\_lowdermilk@blm.gov'  
**Cc:** 'adam\_deutsch@blm.gov'  
**Subject:** Request for additional information  
**Attachments:** ML11087A056.pdf

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Telephone 817-860-8189  
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