NRC FORM 313 (05-2012) 10 CFR 30, 32, 33, 34, 35, 36, 39, and 40

U.S. NUCLEAR REGULATORY COMMISSION

# APPLICATION FOR MATERIALS LICENSE

APPROVED BY OMB: NO. 3150-0120 EXPIRES: (05/31/2015)

Estimated burden per response to comply with this mandatory collection request: 4.3 hours. Submittal of the application is necessary to determine that the applicant is qualified and that adequate procedures exist to protect the public health and safety. Send comments regarding burden estimate to the Information Services Branch (T-5 F53), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by internet e-mail to Infocollects.Resource@nrc.gov, and to the Desk Officer, Office of Information and Regulatory Affairs, NEOB-10202, (3150-0120), Office of Management and Budget, Washington, DC 20503. If a means used to impose an information collection does not display a currently valid OMB control number, the NRC may not conduct or sponsor, and a person is not required to respond to, the information collection.

**INSTRUCTIONS: SEE THE APPROPRIATE LICENSE APPLICATION GUIDE FOR DETAILED INSTRUCTIONS FOR COMPLETING APPLICATION. SEND TWO COPIES OF THE ENTIRE COMPLETED APPLICATION TO THE NRC OFFICE SPECIFIED BELOW.**

**APPLICATION FOR DISTRIBUTION OF EXEMPT PRODUCTS FILE APPLICATIONS WITH:**

OFFICE OF FEDERAL & STATE MATERIALS AND
ENVIRONMENTAL MANAGEMENT PROGRAMS
DIVISION OF MATERIALS SAFETY AND STATE AGREEMENTS
U.S. NUCLEAR REGULATORY COMMISSION
WASHINGTON, DC 20555-0001

**ALL OTHER PERSONS FILE APPLICATIONS AS FOLLOWS:**

**IF YOU ARE LOCATED IN:**

**ALABAMA, CONNECTICUT, DELAWARE, DISTRICT OF COLUMBIA, FLORIDA, GEORGIA, KENTUCKY, MAINE, MARYLAND, MASSACHUSETTS, NEW HAMPSHIRE, NEW JERSEY, NEW YORK, NORTH CAROLINA, PENNSYLVANIA, PUERTO RICO, RHODE ISLAND, SOUTH CAROLINA, TENNESSEE, VERMONT, VIRGINIA, VIRGIN ISLANDS, OR WEST VIRGINIA,**

**SEND APPLICATIONS TO:**

LICENSING ASSISTANCE TEAM
DIVISION OF NUCLEAR MATERIALS SAFETY
U.S. NUCLEAR REGULATORY COMMISSION, REGION I
2100 RENAISSANCE BOULEVARD, SUITE 100
KING OF PRUSSIA, PA 19406-2713

**IF YOU ARE LOCATED IN:**

**ILLINOIS, INDIANA, IOWA, MICHIGAN, MINNESOTA, MISSOURI, OHIO, OR WISCONSIN, SEND APPLICATIONS TO:**

MATERIALS LICENSING BRANCH
U.S. NUCLEAR REGULATORY COMMISSION, REGION III
2443 WARRENVILLE ROAD, SUITE 210
LISLE, IL 60532-4352

**ALASKA, ARIZONA, ARKANSAS, CALIFORNIA, COLORADO, HAWAII, IDAHO, KANSAS, LOUISIANA, MISSISSIPPI, MONTANA, NEBRASKA, NEVADA, NEW MEXICO, NORTH DAKOTA, OKLAHOMA, OREGON, PACIFIC TRUST TERRITORIES, SOUTH DAKOTA, TEXAS, UTAH, WASHINGTON, OR WYOMING,**

**SEND APPLICATIONS TO:**

NUCLEAR MATERIALS LICENSING BRANCH
U.S. NUCLEAR REGULATORY COMMISSION, REGION IV
1600 E. LAMAR BOULEVARD
ARLINGTON, TX 76011-4511

**PERSONS LOCATED IN AGREEMENT STATES SEND APPLICATIONS TO THE U.S. NUCLEAR REGULATORY COMMISSION ONLY IF THEY WISH TO POSSESS AND USE LICENSED MATERIAL IN STATES SUBJECT TO U.S.NUCLEAR REGULATORY COMMISSION JURISDICTIONS.**

1. THIS IS AN APPLICATION FOR *(Check appropriate item)*

- [ ] A. NEW LICENSE
- [ ] B. AMENDMENT TO LICENSE NUMBER
- [x] C. RENEWAL OF LICENSE NUMBER 24-32406-01

2. NAME AND MAILING ADDRESS OF APPLICANT *(Include ZIP code)*

Hutchens Construction Co
1007 Main Street
Cassville, MO 65625

3. ADDRESS WHERE LICENSED MATERIAL WILL BE USED OR POSSESSED

See Attached sheet

4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION

Jeffrey R. Mitchell

| BUSINESS TELEPHONE NUMBER | BUSINESS CELLULAR TELEPHONE NUMBER |
|---|---|
| (417) 847-2489 | (479) 866-9557 |

BUSINESS EMAIL ADDRESS

Jeff@HutchensConstruction.com

SUBMIT ITEMS 5 THROUGH 11 ON 8-1/2 X 11" PAPER. THE TYPE AND SCOPE OF INFORMATION TO BE PROVIDED IS DESCRIBED IN THE LICENSE APPLICATION GUIDE.

5. RADIOACTIVE MATERIAL
a. Element and mass number, b. chemical and/or physical form; and c. maximum amount which will be possessed at any one time

6. PURPOSE(S) FOR WHICH LICENSED MATERIAL WILL BE USED.

7. INDIVIDUAL(S) RESPONSIBLE FOR RADIATION SAFETY PROGRAM AND THEIR TRAINING EXPERIENCE.

8. TRAINING FOR INDIVIDUALS WORKING IN OR FREQUENTING RESTRICTED AREAS.

9. FACILITIES AND EQUIPMENT.

10. RADIATION SAFETY PROGRAM.

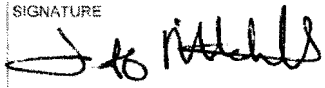
11. WASTE MANAGEMENT.

12. LICENSE FEES *(See 10 CFR 170 and Section 170.31)*

FEE CATEGORY — AMOUNT ENCLOSED $

13. CERTIFICATION. *(Must be completed by applicant) THE APPLICANT UNDERSTANDS THAT ALL STATEMENTS AND REPRESENTATIONS MADE IN THIS APPLICATION ARE BINDING UPON THE APPLICANT.*

THE APPLICANT AND ANY OFFICIAL EXECUTING THIS CERTIFICATION ON BEHALF OF THE APPLICANT, NAMED IN ITEM 2, CERTIFY THAT THIS APPLICATION IS PREPARED IN CONFORMITY WITH TITLE 10, CODE OF FEDERAL REGULATIONS, PARTS 30, 32, 33, 34, 35, 36, 39, AND 40, AND THAT ALL INFORMATION CONTAINED HEREIN IS TRUE AND CORRECT TO THE BEST OF THEIR KNOWLEDGE AND BELIEF.
WARNING: 18 U.S.C. SECTION 1001 ACT OF JUNE 25, 1948 62 STAT. 749 MAKES IT A CRIMINAL OFFENSE TO MAKE A WILLFULLY FALSE STATEMENT OR REPRESENTATION TO ANY DEPARTMENT OR AGENCY OF THE UNITED STATES AS TO ANY MATTER WITHIN ITS JURISDICTION.

| CERTIFYING OFFICER -- TYPED/PRINTED NAME AND TITLE | SIGNATURE | DATE |
|---|---|---|
| Jeffrey R Mitchell, RSO Officer |  | 8/7/12 |

**FOR NRC USE ONLY**

| TYPE OF FEE | FEE LOG | FEE CATEGORY | AMOUNT RECEIVED | CHECK NUMBER | COMMENTS |
|---|---|---|---|---|---|
| | | | $ | | |
| APPROVED BY | | | DATE | | |

RECEIVED AUG 15 2012

**Question #3:**

Hutchens Construction Co
17137 Pleasure Heights Drive
Springdale, AR 72764

Hutchens Construction Co
5270 Oak Street
Springdale, AR 72764

Hutchens Construction Co
15100 N AR Hwy 59
Gravette, AR 72768

Hutchens Construction Co.
Monett/Purdy Plant
11241 Farm Road 2060
Monett, MO 65708

Hutchens Construction Co.
20753 Farm Road 1240
Shell Knob, MO 65745

Please include temporary job sites.

**Question 5:**

**Radioactive Materials:**

| A. RADIOACTIVE MATERIAL (ELEMENT & MASS NUMBER) | B. CHEMICAL AND/OR PHYSICAL FORM | C.MAXIMUM RADIOACTIVITY AND/OR QUANTITY OF MATERIAL WHICH LICENSEE MAY POSSESS AT ANY ONE TIME |
|---|---|---|
| (3) Troxler 3241 C Gauges | Sealed Source<br>Troxler<br>Model # 3241-C | 100 millicures x 3 300 millicures total |
| (1) Troxler 3450 Gauge | Sealed Source<br>Troxler<br>Model #3450 | Cesium- 8 millcures<br><br>Americium- 40 mCi |
| (1) Troxler 3430 Gauge | Sealed Source<br>Troxler<br>Model #3430 | Cesium- 8 mCi<br>Americium 40 mCi |
| (1) Troxler 4640 Gauge | Sealed Source<br>Troxler<br>Model #4640 | Cesium 8 mCi |
| (2) Troxler 3411 Gauges | Sealed Source<br>Troxler<br>Model #4640 | Americium- 40 mCi x 2 80 mCi total<br>Cesium 8 mCi total |

**Question #6**

Describe Purpose for which Radioactive Materials listed in Item 5 will be used:

1. To be used in Troxler Electronic Laboratories Inc source holder for moisture and density measurements.

**Question #7**

**Training and Experience of Users:**

Attachments of Training Certificates for Jeffrey Mitchell

**WE DO NOT WISH TO INCLUDE OUR HAZARD COMMUNICATION PROGRAM INCLUDED IN OUR APPLICATION RENEWAL.**

# HAZMAT CERTIFICATION

## *as required by U.S. DOT and IATA*

This certifies that

Jeffrey Ryan Mitchell

has been trained and tested in accordance with the U.S. Department of Transportation and International Air Transport Association (IATA) hazardous material requirements for general awareness/familiarization, function-specific, safety, and security awareness training as related to the transportation of nuclear gauges. A description of the training course materials is available from Troxler Electronic Laboratories, Inc. This certificate expires three years from the training date shown below.

March 07, 2012

**EMPLOYER CERTIFICATION**

I certify that the hazmat employee identified on this certificate has been trained and tested as required by U.S. DOT Hazardous Material Regulations (49 CFR 172 Subpart H).

Signature _____ Title _____

TROXLER®
The Leader in Construction Testing Equipment

Troxler Electronic Laboratories, Inc.
PO Box 12057-3008 Cornwallis Road - Research Triangle Park, NC 27709
Phone: (919) 549-8661 - Fax (919) 549-0761 - www.troxlerlabs.com

Course: Hazmat Refresher

Tracking Code: 688B9GI6EI685IC_28276

# Certificate of Completion

This certifies that

*Jeffrey Mitchell*

has successfully completed the

Nuclear Gauge Safety Training Class

conducted by the training department of

*Troxler Electronic Laboratories, Inc.*

| Michael Dixon | February 7, 2008 | *William F. Troxler, Jr.* |
|---|---|---|
| Instructor | Date | President |

TROXLER®
The Leader in Construction Testing Equipment

Troxler Electronic Laboratories, Inc.
PO Box 12057 * 3008 Cornwallis Rd. * Research Triangle Park, NC 27709
Phone: (919) 549-8661 * Fax: (919) 549-0761 * Web site: www.troxlerlabs.com

Pass-Certifed to operate Nuclear Gauges
10552175

# APNGA
# Certificate of Achievement
# This confirms that

JEFFREY MITCHELL

has successfully completed the APNGA Portable Nuclear Gauge

## Radiation Safety Officer Class

on this day

Monday, May 17, 2010

American Portable Nuclear Gauge Association (APNGA)
www.apnga.com

George E. Marshall
APNGA Director

**Question #8:**

Before using licensed materials, authorized users will have successfully completed one of the training course described in Criteria in the section entitled "Training for Individuals Working In or Frequenting Restricted Areas" in NUREG-1556, Vol. 1, Rev 1, dated November 2001.

**Question #10**

**Radiation Detection Instruments:**

| a. Type of Instruments (Include Mfg & Model Number) | b. Number Available | c. Radiation Detected | d. Sensitivity Range (mR/hr) | e. Use (monitoring, surveying or measuring) |
|---|---|---|---|---|
| SE International, Radiation alert Monitor 4, Make LND, Tube Model 712, | 1 | Alpha, Beta & Gamma | 0-0.5<br>0.5-5<br>5-50 | Surveying |

I have attached a copy of the calibration report for this Meter.

**Material Receipt and Accountability:**

Physical inventories will be conducted at intervals not to exceed 6 months, to account for all sealed sources and devices received and possessed under the license.

**Annual Dose Limits for Radiation workers:**

Either we will maintain, for inspection by NRC, documentation demonstrating that unmonitored individuals are not likely to receive, in one year, a radiation dose in excess of 10 percent of the allowable limits in 10 CFR part 20 or we will provide dosimetry processed and evaluated by a NVLAP approved processor that is exchanged at a frequency recommended by the processor.

**Operating and Emergency Procedures:**

We will implement and maintain the operating and emergency procedures in Appendix H of NUREG-1556, Vol. 1 'Consolidated Guidance about Materials Licenses: Program specific Guidance about Portable Gauge Licenses', dated May 1997 and provide copies of these procedures to all gauge users at each job site.

**Leak Tests:**

Leak tests will be performed at intervals approved by the NRC or an Agreement State and specified in the Sealed Source and Device Registration Sheet. Leak tests will be performed by an organization authorized by NRC or an Agreement State to provide leak testing services to other licensees or using a leak test kit supplied by an organization authorized by NRC or an Agreement State to provide leak test kits to other licensees and according to the kit suppliers' instructions.

**Maintenance:**

We will implement and maintain procedures for routine maintenance of our gauges according to each manufacturer's recommendations and instructions.

**Non-Routine Maintenance**

We will send the gauge to the manufacturer or other person authorized by NRC or an Agreement State to perform non-routine maintenance or repair operations that require
the removal of the source or source rod from
the gauge.

There were no leaking sources stored at the location of Pineville which we are requesting to have removed from our license as a location of storage for any gauges.

# CERTIFICATE OF CALIBRATION

S.E. INTERNATIONAL, INC.
436 Farm Road P.O. Box 39 Summertown, TN. 38483
Ph: 931.964.3561 Fax: 931.964.3564
www.seintl.com | radiationinfo@seintl.com

**Certificate Number: 12-757**
CAL DATE: 4/13/2012
CAL DUE DATE:4/13/2013

## Customer Information:

Hutchins Construction
Radiation Safety Officer Jeff Mitchell
515 Sanders Ave.
Springdale, AR 72764 USA
0

Customer PO:

## Instrument Information:

**Instrument:** SE International, Inc.
**Type:**
**Model:** Radiation Alert Monitor 4
***Serial:*** *75822*
***Make:*** *LND*
**Tube Model:** 712
**Detector:** Internal
**Input Sens:** 2.4VDC
***Inst Voltage set:*** *512VDC*

**Contamination Check:** ✓
**Alarm Check:** ✓
**Audio Check:** ✓
**Recieved: Out of Spec:**
**Mechanical Check:** ✓
**Battery Check:** ✓ 9.25VDC
**Tolerance:** ✓ ± 10% ± 20% Out of Spec

## Calibration Data:

S.E. International, Inc. Certifies the above described instrument was calibrated in a known radiation field using a $Cs^{137}$ (662keV) beam calibrator. Transfer instrument MDH Industries, Model 2025 X-Ray Monitor with 1800cc Probe. Calibration is traceable to NIST DG8640/87. GM detectors are positioned perpendicular to source. This calibration conforms to ANSI/NCSL Z540..1.1994, ANSI N323-1978. The results are tabulated below. This certificate may not be reproduced, unless in full, without written approval from S.E.International Inc.**TENNESSEE LICENSE# R-51002-C15**

**Precision/Constancy Check performed with $Cs^{137}$ Source s/n 010817 | Precision:** ✓ ± 10% ± 20%

**Constancy Check:** 1 uCi of $Cs^{137}$ indicates 0.60 mR/hr when placed against the center of the GM tube from the front of unit.

**Reading 1:** 0.6 mR/hr
**Reading 2:** 0.6 mR/hr
**Reading 3:** 0.6 mR/hr
**Mean:** 0.60 mR/hr

**Temperature:** 18.7 °C
**Relative Humidity:** 48.0%
**mmHg:** 740.0

Notes:
Unit: "NEW".

| *Range Multiplier* | Refence Calibration Point | Instrument Meter Reading after Calibration * | Correction Factors for > +/- 10% |
|---|---|---|---|
| X100 | 40mR/hr | 40.0 mR/hr | None |
| X100 | 10mR/hr | 10.0 mR/hr | None |
| X10 | 4mR/hr | 3.98 mR/hr | None |
| X10 | 1mR/hr | 1.08 mR/hr | None |
| X1 | 0.4mR/hr | 0.401 mR/hr | None |
| X1 | 0.1mR/hr | 0.104mR/hr | None |

** = Range calibrated to electronic standard | * Indicates 1 minute average

Cs137 Gamma 6810 Capsule S/N A-369 and Model 28-5A Calibrator S/N 10291 calibrated monthly for decay

Multimeter S/N 77320214 Cal Date:12/12/11 Cal Due:12/12/12 Arb Gen. S/N 34004570 Cal Date: 12/12/11 Cal Due:12/12/12

**Calibrated by: Robert Russell**

There were no leaking sources stored at the location of Pineville which we are requesting to have removed from our license as a location of storage for any gauges.

# OSCS

*"Your One Stop for Calibration & Service"*


2513 Weaver Street Suite A
Fort Worth TX 76117
p:817.834.5411
f: 817.834.5435

**www.onestopcal.net**

702 W 48th Avenue Unit G
Denver CO 80216
p:303.292.2412
f: 303.292.2409

**1.877.737.8225**


Attn: Jeff Mitchell
*Hutchens Construction*
515 Sanders Ave
Springdale AR 72764

**Certificate Number:** OSCST04302012N

## Leak Test Certificate

**Gauge Serial Number:** 1254
**Sample Procedure by:** Hutchens

**Gauge Model:** 3241-C
**Sample Date:** 04/26/2012

| Sealed Source Isotope: | Serial Number: | Activity: | Removable Contamination: |
|---|---|---|---|
| Am-241 (alpha) | | 100 mCi | < .005µCi |

The analysis procedure was performed on 04/30/12 by OSCS.

**This portable nuclear gauge displays no removable contamination and may remain in active service.**

The .001 µCi Cs-137 and Am-241calibration check sources are NIST traceable.
The survey meter used to perform the analysis was calibrated on 13 April 2012.
Federal and Agreement State limits for removable contamination is 0.005 µCi ($5.0 \times 10^{-3}$ µCi).
OSCS is authorized to analyze portable and fixed gauge leak test samples; State of Texas License Number: LO-5813.

Notice: The RSO or owner of the gauge that fails the leak test analysis will be alerted immediately by telephone, e-mail and or fax to remove the gauge from active service.

Certified by:

James Stiles

# OSCS

*"Your One Stop for Calibration & Service"*

2513 Weaver Street Suite A
Fort Worth TX 76117
p:817.834.5411
f: 817.834.5435

www.onestopcal.net

702 W 48th Avenue Unit G
Denver CO 80216
p:303.292.2412
f: 303.292.2409

1.877.737.8225

Attn: Jeff Mitchell
*Hutchens Construction*
515 Sanders Ave
Springdale AR 72764

**Certificate Number:** OSCST043020120

## Leak Test Certificate

**Gauge Serial Number:** 2548
**Sample Procedure by:** Hutchens

**Gauge Model:** 3241-C
**Sample Date:** 04/26/2012

| Sealed Source Isotope: | Serial Number: | Activity: | Removable Contamination: |
|---|---|---|---|
| Am-241 (alpha) | | 100 mCi | < .005µCi |

The analysis procedure was performed on 04/30/12 by OSCS.

**This portable nuclear gauge displays no removable contamination and may remain in active service.**

The .001 µCi Cs-137 and Am-241calibration check sources are NIST traceable.
The survey meter used to perform the analysis was calibrated on 13 April 2012.
Federal and Agreement State limits for removable contamination is 0.005 µCi ($5.0 \times 10^{-3}$ µCi).
OSCS is authorized to analyze portable and fixed gauge leak test samples; State of Texas License Number: LO-5813.

Notice: The RSO or owner of the gauge that fails the leak test analysis will be alerted immediately by telephone, e-mail and or fax to remove the gauge from active service.

Certified by:

James Stiles

# OSCS

*"Your One Stop for Calibration & Service"*

2513 Weaver Street Suite A
Fort Worth TX 76117
p:817.834.5411
f: 817.834.5435

www.onestopcal.net

702 W 48th Avenue Unit G
Denver CO 80216
p:303.292.2412
f: 303.292.2409

1.877.737.8225

Attn: Jeff Mitchell
Hutchens Construction
515 Sanders Ave
Springdale AR 72764

**Certificate Number:** OSCST04302012Q

## Leak Test Certificate

**Gauge Serial Number:** 1450
**Sample Procedure by:** Hutchens

**Gauge Model:** 3241-C
**Sample Date:** 04/26/2012

| Sealed Source Isotope: | Serial Number: | Activity: | Removable Contamination: |
|---|---|---|---|
| Am-241 (alpha) | | 100 mCi | < .005μCi |

The analysis procedure was performed on 04/30/12 by OSCS.

**This portable nuclear gauge displays no removable contamination and may remain in active service.**

The .001 μCi Cs-137 and Am-241calibration check sources are NIST traceable.
The survey meter used to perform the analysis was calibrated on 13 April 2012.
Federal and Agreement State limits for removable contamination is 0.005 μCi ($5.0 \times 10^{-3}$ μCi).
OSCS is authorized to analyze portable and fixed gauge leak test samples; State of Texas License Number: LO-5813.

Notice: The RSO or owner of the gauge that fails the leak test analysis will be alerted immediately by telephone, e-mail and or fax to remove the gauge from active service.

Certified by:

James Stiles

# OSCS

*"Your One Stop for Calibration & Service"*

2513 Weaver Street Suite A
Fort Worth TX 76117
p:817.834.5411
f: 817.834.5435

www.onestopcal.net

702 W 48th Avenue Unit G
Denver CO 80216
p:303.292.2412
f: 303.292.2409

1.877.737.8225

Attn: Jeff Mitchell
*Hutchens* Construction
515 Sanders Ave
Springdale AR 72764

**Certificate Number:** OSCST04302012P

## Leak Test Certificate

**Gauge Serial Number:** 670
**Sample Procedure by:** Hutchens

**Gauge Model:** 3450
**Sample Date:** 04/26/2012

| Sealed Source Isotope: | Serial Number: | Activity: | Removable Contamination: |
|---|---|---|---|
| Cs-137 (gamma) | | 8 mCi | < .005μCi |
| Am-241 (alpha) | | 40 mCi | < .005μCi |

The analysis procedure was performed on 04/30/12 by OSCS.

**This portable nuclear gauge displays no removable contamination and may remain in active service.**

The .001 μCi Cs-137 and Am-241calibration check sources are NIST traceable.
The survey meter used to perform the analysis was calibrated on 13 April 2012.
Federal and Agreement State limits for removable contamination is 0.005 μCi ($5.0 \times 10^{-3}$ μCi).
OSCS is authorized to analyze portable and fixed gauge leak test samples; State of Texas License Number: LO-5813.

Notice: The RSO or owner of the gauge that fails the leak test analysis will be alerted immediately by telephone, e-mail and or fax to remove the gauge from active service.

Certified by:

James Stiles

**Troxler Electronic Laboratories, Inc.**
3008 Cornwallis Rd., P.O. Box 12057
Research Triangle Park, NC 27709
Tel: (877) 876-9537 Fax: (866) 391-2759
License: NC 032-0182-1

RECEIVED
MAY 15 2012
By

JEFF MITCHEL
KIEWIT INFRASTRUCTURE SOUTH CO
17300 CHENAL PKWAY
SUITE 130
LITTLE ROCK, AR 72223

Cust ID: 12013

## LEAK TEST CERTIFICATE

**DEVICE:**

**Model:** 3430 **Serial No:** 23418

**SEALED SOURCES:**

| Serial No. | Measure Date | Nuclide | GBq | mCi |
|---|---|---|---|---|
| 75-5459 | 03/17/1994 | Cs-137 | 0.296 | 8 |
| 47-19301 | 03/08/1994 | Am-241:Be | 1.48 | 40 |

**LEAK TEST ANALYSIS:**

**Sample collected on:** 04/14/2012

**Sample analyzed on:** 04/26/2012 9:38:15 AM **Position:** 8

**Analyzed by:** D. Rose

| | ALPHA | BETA-GAMMA |
|---|---|---|
| Conversion factor (cpm/Bq) | 1.25E+01 | 1.97E+01 |
| Background measurement (cpm) | 2 | 27 |
| Sample measurement (cpm) | 1 | 19 |
| Activity (Bq) | < MDA | < MDA |
| Min. Detectable Activity (Bq) | 6.7E-01 | 1.4E+00 |

**This certifies that the leak test results are:**

☑ **Less than 185 Bq (0.005 uCi)** ☐ **Greater than 185 Bq (0.005 uCi)**

Rev. 9/2006

**Troxler Electronic Laboratories, Inc.**
3008 Cornwallis Rd., P.O. Box 12057
Research Triangle Park, NC 27709
Tel: (877) 876-9537 Fax: (866) 391-2759
License: NC 032-0182-1

JEFF MITCHEL
KIEWIT INFRASTRUCTURE SOUTH CO
17300 CHENAL PKWAY
SUITE 130
LITTLE ROCK, AR 72223

Cust ID: 12013

# LEAK TEST CERTIFICATE

**DEVICE:**

**Model:** 4640 **Serial No:** 2437

**SEALED SOURCES:**

| Serial No. | Measure Date | Nuclide | GBq | mCi |
|---|---|---|---|---|
| 750-8284 | 04/26/2001 | Cs-137 | 0.296 | 8 |

**LEAK TEST ANALYSIS:**

**Sample collected on:** 04/14/2012

**Sample analyzed on:** 04/26/2012 9:40:40 AM **Position:** 10

**Analyzed by:** D. Rose

| | ALPHA | BETA-GAMMA |
|---|---|---|
| Conversion factor (cpm/Bq) | 1.25E+01 | 1.97E+01 |
| Background measurement (cpm) | 2 | 27 |
| Sample measurement (cpm) | 1 | 24 |
| Activity (Bq) | < MDA | < MDA |
| Min. Detectable Activity (Bq) | 6.7E-01 | 1.4E+00 |

**This certifies that the leak test results are:**

☑ **Less than 185 Bq (0.005 uCi)** ☐ **Greater than 185 Bq (0.005 uCi)**

Rev. 9/2006

**Troxler Electronic Laboratories, Inc.**
3008 Cornwallis Rd., P.O. Box 12057
Research Triangle Park, NC 27709
Tel: (877) 876-9537 Fax: (866) 391-2759
License: NC 032-0182-1

JEFF MITCHEL
KIEWIT INFRASTRUCTURE SOUTH CO
17300 CHENAL PKWAY
SUITE 130
LITTLE ROCK, AR 72223

Cust ID: 12013

# LEAK TEST CERTIFICATE

**DEVICE:**

**Model:** 3411 **Serial No:** 11819

**SEALED SOURCES:**

| Serial No. | Measure Date | Nuclide | GBq | mCi |
|---|---|---|---|---|
| 47-7315 | 12/20/1984 | Am-241:Be | 1.48 | 40 |
| 40-9305 | 09/25/1984 | Cs-137 | 0.296 | 8 |

**LEAK TEST ANALYSIS:**

**Sample collected on:** 04/14/2012

**Sample analyzed on:** 04/26/2012 9:41:52 AM **Position:** 11

**Analyzed by:** D. Rose

| | ALPHA | BETA-GAMMA |
|---|---|---|
| Conversion factor (cpm/Bq) | 1.25E+01 | 1.97E+01 |
| Background measurement (cpm) | 2 | 27 |
| Sample measurement (cpm) | 0 | 30 |
| Activity (Bq) | < MDA | < MDA |
| Min. Detectable Activity (Bq) | 6.7E-01 | 1.4E+00 |

**This certifies that the leak test results are:**

☑ **Less than 185 Bq (0.005 uCi)** ☐ **Greater than 185 Bq (0.005 uCi)**

Rev. 9/2006

**Troxler Electronic Laboratories, Inc.**
3008 Cornwallis Rd., P.O. Box 12057
Research Triangle Park, NC 27709
Tel: (877) 876-9537 Fax: (866) 391-2759
License: NC 032-0182-1

JEFF MITCHEL
KIEWIT INFRASTRUCTURE SOUTH CO
17300 CHENAL PKWAY
SUITE 130
LITTLE ROCK, AR 72223

Cust ID: 12013

# LEAK TEST CERTIFICATE

**DEVICE:**

**Model:** 3411 **Serial No:** 12699

**SEALED SOURCES:**

| Serial No. | Measure Date | Nuclide | GBq | mCi |
|---|---|---|---|---|
| 47-8006 | 06/28/1985 | Am-241:Be | 1.48 | 40 |
| 50-1068 | 03/20/1985 | Cs-137 | 0.296 | 8 |

**LEAK TEST ANALYSIS:**

**Sample collected on:** 04/14/2012

**Sample analyzed on:** 04/26/2012 9:39:27 AM **Position:** 9

**Analyzed by:** D. Rose

| | ALPHA | BETA-GAMMA |
|---|---|---|
| Conversion factor (cpm/Bq) | 1.25E+01 | 1.97E+01 |
| Background measurement (cpm) | 2 | 27 |
| Sample measurement (cpm) | 0 | 25 |
| Activity (Bq) | < MDA | < MDA |
| Min. Detectable Activity (Bq) | 6.7E-01 | 1.4E+00 |

**This certifies that the leak test results are:**

☑ **Less than 185 Bq (0.005 uCi)** ☐ **Greater than 185 Bq (0.005 uCi)**

Rev. 9/2006

CERTIFIED MAIL™

7008 3230 0003 3983 7460

045J83205492

neopost

$7.60

08/09/2012

Mailed From 65625

US POSTAGE

Hutchens Construction Co
1007 Main Street
Cassville, MO 65625

**MATERIALS LICENSING BRANCH**
U.S. NUCLEAR REGULATORY COMMISSION, REGION III
2443 WARRENVILLE ROAD
SUITE 210
LISLE, IL 60532-4352