



3213 S. WEST BYPASS
SPRINGFIELD, MO 65807

TO:
FAX 630-515-1078; PHONE 630-829-9876/87

July 28, 2020

MEMORANDUM FOR:

US Nuclear Regulatory Commission, Region III, 2443 Warrenville Rd, Suite 210
Lisle, IL 60532-4352

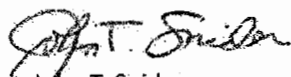
Via: email: Mr. Jason Kelly, MPH, Materials Licensing Branch, US NRC, Jason.Kelly@nrc.gov

REFERENCE: Mail control #618880, U.S. NRC Materials License #24-20063-01; Request
Amendment change to close storage location for Nuclear Testing Gauges for: Anderson Engineering, Inc.
, 2045 W. Woodland St, Springfield, MO 65807

We provide additional information:

1. All radioactive materials have been removed from their former storage location: 2045 W. Woodland St, Springfield, MO 65807 and moved to 3213 S. West Bypass, Springfield, MO 65807. Attached is a Transfer Record sheet for materials moved.
2. Attached are current Leak Test Report for materials that were previously stored at the former location.
3. We have had no incidents involving rupture; leaking or lost sealed sources or other incidents involving radioactive materials at the former storage location.

Thank you.


John T. Snider
RSO

G:\Shared drives\Nuclear Gauge\RSO\2 LICENSE\Amend, 2020-05-13, New Corporate office 3213 S. WEST BYPASS\2020-07-28 Mail control #618880, additional info to close 2045 address.gdoc

https://docs.google.com/open?id=1vD2yD8HqL8WQfn7unKpW3iR_vJbXuarU_u1b8Q4dNoo&authuser=jsnider%40andersonengineeringinc.com&usp=drive_fs

RECEIVED JUL 28 2020

ANDERSON ENGINEERING, INC.
TRANSFER RECORDS

NRC LICENSE #24-20063-01
updated

RS
JTS

5/13/2020
7/28/2020

FROM 2045 W. Woodland St, Springfield, MO 65807

TO 3213 S. West Bypass, Springfield, MO 65807

Gauge ID	Mfg Name, Model	Serial No.	Radionuclides ID, mCi		Location	Summary		
			Am-241: Be	Cs-137		Leak Test 6 month	Internal Next Due	Mfg next 12 montl
✓ #1	Troxler 3411-B	12740		40	8 Springfield, MO	1/23/2020	7/24/2020	yes
✓ #3	Troxler 3411-B	16930		40	8 Springfield, MO	12/5/2019	7/1/1900	yes
✓ #10	Troxler 3430	28911		40	8 Springfield, MO	1/23/2020	7/24/2020	yes
✓ #11	Troxler 3411	13430		40	8 Springfield, MO	1/23/2020	7/24/2020	yes
✓ #12	Troxler 3430	31730		40	8 Springfield, MO	1/23/2020	7/24/2020	yes
✓ #13	Campbell MC-1 DR- P, 12 inch	MD8090 4626		50	10 Springfield, MO	1/23/2020	7/24/2020	yes

2020-07-28 13:49:15 (GMT)

14176275332 From: Paul Engel

Form: 193A Rev 1, 9 Aug. 2019



www.qaltek.com
Qal-Tek Associates

1107 Wonder Drive Ste 104
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3998 Commerce Circle
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Mesa, AZ 85203
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Fax: 480 966-9495

SEALED RADIOACTIVE SOURCE LEAK TEST REPORT

Ref#: W31009-146352

Acct#: 1679

Company: Anderson Engineering, Inc.

Street: 3213 S W Bypass

City/ST/Zip: Springfield, MO 65807

Phone: 417-866-2741

Fax: 417-866-2778

Serial Number: 12740

Mfg: Troxler

Model: 3411

Leak Test
Date: 23-Jan-2020Leak Test
Due Date: 23-Jul-2020

Test Instrument

Test Instrument	Ludlum : 3030 : 219695
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Test Instrument Info

MDA	less than 0.005 uCi
alpha efficiency	36.42
beta efficiency	21.54
Det. Type	ZnS (Ag)
Last Cal. Date	17-Oct-2019

Test Results

Isotope	Source SN	Activity (mCi)	Assay Date	Net Alpha (CPM)	Net Beta/Gamma (CPM)	Alpha (microcuries)	Beta/Gamma (microcuries)	Pass/Fail
Am241	0	40 mCi	0	1	14	0.000001	0.000029	Pass
Cs137	0	8 mCi	0	1	0	0.000001	0	Pass

Comments

Instrument Technician: Bryson Hendricks

Date of Service: 23-Jan-2020

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 uCi

**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

STEVE GRAHAM
ANDERSON ENGINEERING CONSULTANTS I
2045 W. WOODLAND ST.
SPRINGFIELD, MO 65807

Cust ID: 13586

LEAK TEST CERTIFICATE

DEVICE:**Model:** 3411**Serial No:** 16930**SEALED SOURCES:**

Serial No.	Measure Date	Nuclide	GBq	mCi
47-12353	01/05/1989	Am-241:Be	1.48	40
50-6100	01/05/1989	Cs-137	0.296	8

LEAK TEST ANALYSIS:**Sample collected on:** 12/05/2019**Sample analyzed on:** 12/16/2019 6:55:04 AM **Position:** 39**Analyzed by:** HEB

	ALPHA	BETA-GAMMA
Conversion factor (cpm/Bq)	1.25E+01	1.97E+01
Background measurement (cpm)	0	25
Sample measurement (cpm)	1	27
Activity (Bq)	< MDA	< MDA
Min. Detectable Activity (Bq)	3.5E-01	1.3E+00

This certifies that the leak test results are:☒ **Less than 185 Bq (0.005 uCi)**☐ **Greater than 185 Bq (0.005 uCi)**

Form: 193A Rev 1, 9 Aug. 2019



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SEALED RADIOACTIVE SOURCE LEAK TEST REPORT

Ref#: W31009-146348

Acct#: 1679

Company: Anderson Engineering, Inc.

Street: 3213 S W Bypass

City/ST/Zip: Springfield, MO 65807

Phone: 417-866-2741

Fax: 417-866-2778

Serial Number: 28911

Mfg: Troxler

Model: 3430

Leak Test
Date: 23-Jan-2020Leak Test
Due Date: 23-Jul-2020

Test Instrument

Test Instrument	Ludlum : 3030 : 219695
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Test Instrument Info

MDA	less than 0.005 uCi
alpha efficiency	36.42
beta efficiency	21.54
Det. Type	ZnS (Ag)
Last Cal. Date	17-Oct-2019

Test Results

Isotope	Source SN	Activity (mCi)	Assay Date	Net Alpha (CPM)	Net Beta/Gamma (CPM)	Alpha (microcuries)	Beta/Gamma (microcuries)	Pass/Fail
Am241	0	40 mCi	0	0	0	0	0	Pass
Cs137	0	8 mCi	0	0	0	0	0	Pass

Comments

Instrument Technician: Bryson Hendricks

Date of Service: 23-Jan-2020

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 uCi

Form: 193A Rev 1, 9 Aug. 2019



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SEALED RADIOACTIVE SOURCE LEAK TEST REPORT

Ref#: W31009-146350

Acct#: 1679

Company: Anderson Engineering, Inc.

Street: 3213 S W Bypass

City/ST/Zip: Springfield, MO 65807

Phone: 417-866-2741

Fax: 417-866-2778

Serial Number: 13430

Mfg: Troxler

Model: 3411-B

Leak Test
Date: 23-Jan-2020Leak Test
Due Date: 23-Jul-2020

Test Instrument

Test Instrument	Ludlum : 3030 : 219695
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Test Instrument Info

MDA	less than 0.005 uCi
alpha efficiency	36.42
beta efficiency	21.54
Det. Type	ZnS (Ag)
Last Cal. Date	17-Oct-2019

Test Results

Isotope	Source SN	Activity (mCi)	Assay Date	Net Alpha (CPM)	Net Beta/Gamma (CPM)	Alpha (microcuries)	Beta/Gamma (microcuries)	Pass/Fail
Am241	□	40 mCi	□	1	0	0.000001	0	Pass
Cs137	□	8 mCi	□	0	7	0	0.000015	Pass

Comments

Instrument Technician: Bryson Hendricks

Date of Service: 23-Jan-2020

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 uCi

Form: 193A Rev 1, 19 Jun 2006



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SEALED RADIOACTIVE SOURCE LEAK TEST REPORT

Ref#: W28511-132068

Acct#: 1679

Company: Anderson Engineering, Inc.
Street: 2045 West Woodland Ave
City/ST/Zip: Springfield, MO 65807
Phone: 417-866-2741

Fax: 417-866-2778

Serial Number: 31730

Mfg: Troxler

Model: 3430

Leak Test
Date: 12-Jun-2019

Leak Test
Due Date: 12-Dec-2019

Test Instrument

Test Instrument	Ludlum : 3030 : 219695
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Test Instrument Info

MDA	less than 0.005 uCi
alpha efficiency	36.42
beta efficiency	21.54
Det. Type	ZnS (Ag)
Last Cal. Date	23-Oct-2018

Test Results

Isotope	Source SN	Activity (mCi)	Assay Date	net alpha CPM	net b/Y CPM	alpha μ Ci	b/Y μ Ci	Pass/Fail
Am241		40 mCi		0	0	0	0	Pass
Cs137		8 mCi		0	0	0	0	Pass

Comments

Instrument Technician: Bryson Hendricks

Date of Service: 10-Jul-2019

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 uCi

Form: 193A Rev 1, 9 Aug. 2019



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SEALED RADIOACTIVE SOURCE LEAK TEST REPORT

Ref#: W31009-146353

Acct#: 1679

Company: Anderson Engineering, Inc.

Street: 3213 S W Bypass

City/ST/Zip: Springfield, MO 65807

Phone: 417-866-2741

Fax: 417-866-2778

Serial Number: 4626

Mfg: CPN

Model: MC-1DR

Leak Test
Date: 23-Jan-2020Leak Test
Due Date: 23-Jul-2020

Test Instrument

Test Instrument	Ludlum : 3030 : 219695
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Test Instrument Info

MDA	less than 0.005 uCi
alpha efficiency	36.42
beta efficiency	21.54
Det. Type	ZnS (Ag)
Last Cal. Date	17-Oct-2019

Test Results

isotope	Source SN	Activity (mCi)	Assay Date	Net Alpha (CPM)	Net Beta/Gamma (CPM)	Alpha (microcuries)	Beta/Gamma (microcuries)	Pass/Fail
Am241	0	50 mCi	0	1	0	0.000001	0	Pass
Cs137	0	10 mCi	0	0	6	0	0.000013	Pass

Comments

Instrument Technician: Bryson Hendricks

Date of Service: 23-Jan-2020

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 uCi