



February 23, 2015

*Transforming your ideas into reality!*

Sara A. Forster, Health Physicist Licensing Reviewer  
U.S. Nuclear Regulatory Commission – Region III  
Division of Nuclear Materials Safety  
2243 Warrenville Rd. – Ste. 210  
Lisle, IL 60532-4352

Subject: Control No. 585566 Additional information for license amendments.

Mrs. Sara Forster,

**RESPONSES TO ADDITIONAL INFORMATION NEEDED:**

1. I have read and understand the responsibilities expected of becoming RSO and have attached a signed copy of delegation of authority as requested.
2. The current mailing address to be listed on the license is 4482 HWY PP – Poplar Bluff, MO 63901.
3. Description of gauge security in our Doniphan, Branson, Lake Ozark, and Poplar Bluff storage facilities is as follows. The nuclear gauges will be stored locked in storage closets to prevent access by unauthorized persons.
4. Please remove the 4800 West Boulevard, Poplar Bluff, MO address from SSE's license as a location of use / storage as this location was sold by SSE in August of 2013.
  - i. The history of radioactive material use and/or storage at this location is the use of Troxler model 3440 & 3440 plus portable density gauges containing Cesium (Cs-137) and Americium (Am-241:Be) for the purpose of material acceptance. There is no record of ever having any leaking sources.
  - ii. Records of all recent leak test performed on gauges stored at 4800 West Blvd, Poplar Bluff, MO prior to transfer in August of 2013 are attached.
  - iii. Final disposition of sealed sources that were removed from 4800 West Blvd location. All sealed sources removed from 4800 West Blvd where transferred for storage to the 115 West Jefferson, Doniphan, MO location in August of 2013.

Sincerely,

Ian Richardson,  
Materials Testing Manager



Schultz Surveying & Engineering

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Memo To: Ian Richardson  
From: Tim Southards  
Subject: Delegation of Authority

You, Ian Richardson, have been appointed radiation safety officer and are responsible for ensuring the safe use of radiation. You are responsible for managing the Radiation Protection Program, identifying radiation protection problems, initiating, recommending, or providing corrective actions, verifying implementation of corrective actions, stopping unsafe activities, and ensuring compliance with regulations. You are hereby delegated the authority necessary to meet those responsibilities, including prohibiting the use of byproduct material by employees who do not meet the necessary requirements and shutting down operations, when justified, to maintain radiation safety. You are required to notify management if staff does not cooperate and does not address radiation safety issues. In addition, you are free to raise issues with the U.S. Nuclear Regulatory Commission at any time. It is estimated that you will spend 5 hours per week conducting radiation protection activities.

Signature of Management Representative

2-23-2015

Date

I accept the above responsibilities,

Signature of Radiation Safety Officer

2-23-15

Date



**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

BARI P. CHASE  
SCHULTZ ENGINEERING SER  
4800 WEST BLVD  
POPLAR BLUFF, MO 63901

Cust ID: 6037

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**LEAK TEST CERTIFICATE**

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**DEVICE:**

**Model:** 3440

**Serial No:** 29385

**SEALED SOURCES:**

Serial No.	Measure Date	Nuclide	GBq	mCi
47-25249	09/29/1997	Am-241:Be	1.48	40
750-2609	10/15/1997	Cs-137	0.296	8

**LEAK TEST ANALYSIS:**

**Sample collected on:** 02/06/2013

**Sample analyzed on:** 02/08/2013 11:32:21 A **Position:** 54

**Analyzed by:** NL

	ALPHA	BETA-GAMMA
Conversion factor (cpm/Bq)	1.25E+01	1.97E+01
Background measurement (cpm)	0	24
Sample measurement (cpm)	0	25
Activity (Bq)	< MDA	< MDA
Min. Detectable Activity (Bq)	4.2E-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)**



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**LEAK TEST CERTIFICATE**

**DEVICE:**

**Model:** 3440      **Serial No:** 30413

**SEALED SOURCES:**

Serial No.	Measure Date	Nuclide	GBq	mCi
750-4881	03/16/1999	Cs-137	0.296	8
47-27468	07/13/1998	Am-241:Be	1.48	40

**LEAK TEST ANALYSIS:**

**Sample collected on:** 05/21/2013  
**Sample analyzed on:** 05/29/2013 10:06:24 A      **Position:** 35  
**Analyzed by:** NL

	ALPHA	BETA-GAMMA
Conversion factor (cpm/Bq)	1.25E+01	1.97E+01
Background measurement (cpm)	0	24
Sample measurement (cpm)	0	33
Activity (Bq)	< MDA	< MDA
Min. Detectable Activity (Bq)	4.2E-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)**



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Cust ID: 6037

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**LEAK TEST CERTIFICATE**

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**DEVICE:**

**Model:** 3440      **Serial No:** 28150

**SEALED SOURCES:**

Serial No.	Measure Date	Nuclide	GBq	mCi
47-24859	07/04/1997	Am-241:Be	1.48	40
750-2100	09/01/1997	Cs-137	0.296	8

**LEAK TEST ANALYSIS:**

**Sample collected on:** 05/21/2013

**Sample analyzed on:** 05/29/2013 10:05:11 A      **Position:** 34

**Analyzed by:** NL

	ALPHA	BETA-GAMMA
Conversion factor (cpm/Bq)	1.25E+01	1.97E+01
Background measurement (cpm)	0	24
Sample measurement (cpm)	0	17
Activity (Bq)	< MDA	< MDA
Min. Detectable Activity (Bq)	4.2E-01	1.3E+00

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

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**LEAK TEST CERTIFICATE**

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**DEVICE:**

**Model:** 3440      **Serial No:** 31191

**SEALED SOURCES:**

Serial No.	Measure Date	Nuclide	GBq	mCi
750-5856	10/22/1999	Cs-137	0.296	8
47-4335	07/29/1980	Am-241:Be	1.48	40

**LEAK TEST ANALYSIS:**

**Sample collected on:** 02/06/2013  
**Sample analyzed on:** 02/08/2013 11:31:09 A      **Position:** 53  
**Analyzed by:** NL

	ALPHA	BETA-GAMMA
Conversion factor (cpm/Bq)	1.25E+01	1.97E+01
Background measurement (cpm)	0	24
Sample measurement (cpm)	1	25
Activity (Bq)	< MDA	< MDA
Min. Detectable Activity (Bq)	4.2E-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)**



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POPLAR BLUFF, MO 63901

Cust ID: 6037

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### LEAK TEST CERTIFICATE

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**DEVICE:**

**Model:** 3440P      **Serial No:** 62002

**SEALED SOURCES:**

Serial No.	Measure Date	Nuclide	GBq	mCi
77-8647	10/01/2008	Cs-137	0.296	8
78-5445	07/17/2008	Am-241:Be	1.48	40

**LEAK TEST ANALYSIS:**

**Sample collected on:** 10/26/2012  
**Sample analyzed on:** 11/01/2012 7:48:43 AM      **Position:** 29  
**Analyzed by:** ttaylor

	ALPHA	BETA-GAMMA
Conversion factor (cpm/Bq)	1.27E+01	1.99E+01
Background measurement (cpm)	1	27
Sample measurement (cpm)	0	30
Activity (Bq)	< MDA	< MDA
Min. Detectable Activity (Bq)	6.3E-01	1.4E+00

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

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



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Cust ID: 6037

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**LEAK TEST CERTIFICATE**

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**DEVICE:**

**Model:** 3440

**Serial No:** 27934

**SEALED SOURCES:**

Serial No.	Measure Date	Nuclide	GBq	mCi
750-1824	07/30/1997	Cs-137	0.296	8
47-24535	03/10/1997	Am-241:Be	1.48	40

**LEAK TEST ANALYSIS:**

**Sample collected on:** 01/17/2013

**Sample analyzed on:** 01/22/2013 9:33:15 AM **Position:** 9

**Analyzed by:** HEB

	ALPHA	BETA-GAMMA
Conversion factor (cpm/Bq)	1.27E+01	1.99E+01
Background measurement (cpm)	1	27
Sample measurement (cpm)	0	20
Activity (Bq)	< MDA	< MDA
Min. Detectable Activity (Bq)	6.3E-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)**



## Forster, Sara

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**From:** Ian K. Richardson <IKRichardson@SSEng.com>  
**Sent:** Monday, February 23, 2015 12:07 PM  
**To:** Forster, Sara  
**Subject:** RE: Additional Information Request for Schultz Surveying & Engineering, Inc., NRC Lic. No. 24-32159-01  
**Attachments:** NRC Additional Info Amendment Letter.pdf

Sara,

Please find the attached letter including the requested additional information for amendments Control No. 585566. Thank you.

Respectfully yours,



***Ian K. Richardson***

**Engineering Technician**

**T: 573.686.0806**

**F: 573.686.0550**

**E: [IKRichardson@SSEng.com](mailto:IKRichardson@SSEng.com)**

**<http://www.SchultzEngineering.com>**

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**From:** Forster, Sara [<mailto:Sara.Forster@nrc.gov>]  
**Sent:** Monday, January 26, 2015 11:09 AM  
**To:** [bpchase@sseeng.com](mailto:bpchase@sseeng.com); [ikrichardson@sseeng.com](mailto:ikrichardson@sseeng.com)  
**Subject:** RE: Additional Information Request for Schultz Surveying & Engineering, Inc., NRC Lic. No. 24-32159-01

Dear Mr. Chase and Mr. Richardson:

Please see below and the attached file for a revised Conversation Record, based on Mr. Richardson's January 12, 2015, letter, requesting to change the mailing address and the RSO.

Sincerely,  
Sara Forster

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**From:** Forster, Sara  
**Sent:** Thursday, January 22, 2015 4:24 PM  
**To:** 'bpchase@sseeng.com'  
**Subject:** Additional Information Request for Schultz Surveying & Engineering, Inc., NRC Lic. No. 24-32159-01

Dear Mr. Chase:

Please see the attached file for additional information needed to complete the review of the recent amendment request for NRC Lic. No. 24-32159-01. Additional guidance may be found in, NUREG 1556, Vol. 1, rev. 1, "Program-Specific Guidance About Portable Gauge Licenses," which may be found at:

<http://www.nrc.gov/reading-rm/doc-collections/nuregs/staff/sr1556/v1/r1/>.