



January 14, 2019

Materials Licensing Section  
U.S. Nuclear Regulatory Commission, Region III  
2443 Warrenville Road, Suite 210  
Lisle, Illinois 60532-4352  
Attn: Laura Cender

Re: Further Information Requested

Dear Laura;

Attached is the revised NRC Form 314, per our conversation today.

Copies of leak test for:

Serial # 23404 the former Indianapolis Gauge  
Serial # 18629 the former Warrenton, MO Gauge  
Serial # 21041 the gauge involved in the accident of 2006

Also included is the disposal document for gauge 21041

This letter also serves to state that 18629 and 23404 were the only gauges assigned to the Indianapolis, Indiana and Warrenton, Missouri.

If you have any questions or if I can be of further service to you, please contact me at (217) 787-2334 or [mmcconnell@andrews-eng.com](mailto:mmcconnell@andrews-eng.com).

Thank you,  
Michael P. McConnell  
Corporate Radiation Safety Officer  
Andrews Engineering, Inc.

A handwritten signature in black ink, appearing to read "Michael P. McConnell", is written over the typed name.

MPM:bpl

enclosure(s)

cc: Doug Mauntel, Andrews Engineering (email)

RECEIVED JAN 17 2019



# **CERTIFICATE OF DISPOSITION OF MATERIALS**

Estimated burden per response to comply with this mandatory collection request: 30 minutes. This submittal is used by NRC as part of the basis for its determination that the facility is released for unrestricted use. Send comments regarding burden estimate to the FOIA, Privacy, and Information Collections Branch (T-5 F53), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by e-mail to [InfoCollections.Resource@nrc.gov](mailto:InfoCollections.Resource@nrc.gov), and to the Desk Officer, Office of Information and Regulatory Affairs, NE08-10202, (3150-0028), 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.

## LICENSEE NAME AND ADDRESS

Andrews Engineering Inc.  
3300 Ginger Creek Drive  
Springfield, IL. 62711

## LICENSE NUMBER

12-3207-01

## DOCKET NUMBER

030-39059

## LICENSE EXPIRATION DATE

11/30/2018

## A. LICENSE STATUS (Check the appropriate box)

- ☒ This license has expired. ☐ This license has not yet expired; please terminate it.

## B. DISPOSAL OF RADIOACTIVE MATERIAL

(Check the appropriate boxes and complete as necessary. If additional space is needed, provide attachments)

The licensee, or any individual executing this certificate on behalf of the licensee, certifies that:

- ☐ 1. No radioactive materials have ever been procured or possessed by the licensee under this license.
- ☒ 2. All activities authorized by this license have ceased, and all radioactive materials procured and/or possessed by the licensee under this license number cited above have been disposed of in the following manner.
- ☒ a. Transfer of radioactive materials to the licensee listed below:  
Andrews Engineering Inc.  
3300 Ginger Creek Drive, Springfield, IL 62711 IEMA License # IL-01501-01
- ☐ b. Disposal of radioactive materials:
- ☐ 1. Directly by the licensee:
- ☐ 2. By licensed disposal site:
- ☐ 3. By waste contractor:
- ☐ c. All radioactive materials have been removed such that any remaining residual radioactivity is within the limits of 10 CFR Part 20, Subpart E, and is ALARA.

## C. SURVEYS PERFORMED AND REPORTED

- ☐ 1. A radiation survey was conducted by the licensee. The survey confirms:
- ☐ a. the absence of licensed radioactive materials
- ☐ b. that any remaining residual radioactivity is within the limits of 10 CFR 20, Subpart E, and is ALARA.
- ☐ 2. A copy of the radiation survey results:
- ☐ a. is attached; or ☐ b. is not attached (Provide explanation); or ☐ c. was forwarded to NRC on: \_\_\_\_\_ Date \_\_\_\_\_
- ☒ 3. A radiation survey is not required as only sealed sources were ever possessed under this license, and
- ☒ a. The results of the latest leak test are attached; and/or ☒ b. No leaking sources have ever been identified.

The person to be contacted regarding the information provided on this form:

NAME	TITLE	TELEPHONE (Include Area Code)	E-MAIL ADDRESS
Michael P. McConnell	Corporate Radiation Safety Officer	(217)787-2334	mmcconnell@andrews-eng.com

Mail all future correspondence regarding this license to:

3300 Ginger Creek Drive, Springfield, IL. 62711

## C. CERTIFYING OFFICIAL

I CERTIFY UNDER PENALTY OF PERJURY THAT THE FOREGOING IS TRUE AND CORRECT

PRINTED NAME AND TITLE	SIGNATURE	DATE
Michael P. McConnell Corporate Radiation Safety Officer		01/14/2019

**WARNING: FALSE STATEMENTS IN THIS CERTIFICATE MAY BE SUBJECT TO CIVIL AND/OR CRIMINAL PENALTIES. NRC REGULATIONS REQUIRE THAT SUBMISSIONS TO THE NRC BE COMPLETE AND ACCURATE IN ALL MATERIAL RESPECT. 18 U.S.C. SECTION 1001 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.**

**R. M. WESTER and ASSOCIATES, INC**

215 Indacom Drive  
St. Peters, MO 63376  
(636) 928-9628  
www.rmwest.com

## RADIOACTIVE SEALED SOURCE LEAK TEST REPORT

Test Date: December 17, 2018

Analytical Date: December 21, 2018

### Source Identification:

Manufacturer: Troxler

Model No.: 3440 Plus

Mach S/N: 23404

Radionuclide: Cs-137

Activity: 8.0 mCi

Source S/N: 75-5444

Radionuclide: Am-241/Be

Activity: 40.0 mCi

Source S/N: 47-19287

Sample Submitted By: Kevin Muse

Facility: Andrews Engineering, Inc.

Address: 215 W. Washington Street

Pontiac, IL 61764

The identified sealed source listed above has been tested for leakage of radioactive materials as required by the United States Nuclear Regulatory Commission. The analysis of the wipe material used in testing the sealed source reveals the presence of  $\leq 8.89 \times 10^{-5}$   $\mu\text{Ci}$  of loose contamination for Cs-137 and  $\leq 8.99 \times 10^{-5}$   $\mu\text{Ci}$  of loose contamination for Am-241.

( X ) This source is acceptable for continued use.

( ) This source has been found to have a level of loose contamination greater than 0.005  $\mu\text{Ci}$  of removable radioactive materials, and should be removed from service immediately.

( N/A ) Operational and performance check of shutter mechanism satisfactory.

Next Leak Test Date: June 17, 2019

Analysis By: Kenneth Barnes

Reviewed By: 



NUCLEAR GAUGE  
TRANSFER/DISPOSAL DOCUMENT

Rental Transfer

X

Disposal

Transferee Andrews Environmental Engineering  
3300 Ginger Creek Drive, Springfield IL 62707

Contact Mike McConnell

Telephone 317-595-6492

Device Type

- ☐ Moisture Gauge  
☐ Density Gauge  
☒ Density/Moisture Gauge  
Other (Describe) \_\_\_\_\_

Manufacturer

- ☒ Troxler  
☐ Humboldt  
☐ CPN  
Other \_\_\_\_\_

Model No. 3440 Device Serial No 21041

Cs-137

8.0 mCi

75-2470

1/30/1992

11/10/2006

Radionuclide

Activity

Source S/N

Date Activity Measured

Leak Test Date

(Attach Copy)

Am-241:Be

40 mCi

47-16512

2/25/1992

11/10/2006

To: Company Aguinaga Technical Services

License No. WI # 117-1005-01

Street Address 1924-C Calumet Drive

City, State Sheboygan, WI

Zip Code 53081

Telephone (920) 803-8789

Recipient

Richard Aguinaga - RSO

(Printed Name)

Sign Upon Receipt

(Signature)

Date



*Where Customer Service is a Priority!*

Richard Aguinaga  
Aguinaga Technical Services  
1924-C Calumet Drive  
Sheboygan, WI 53081  
Phone: (920) 803-8789  
Fax: (920) 803-6707

## LEAK TEST CERTIFICATE

Attn: Mike McConnell  
Andrews Environmental Engineering  
3535 Mayflower Blvd.  
Springfield IL 62707

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A leak test has been performed on the following gauge:

Manufacturer: Troxler

Model: 3440

Serial Number: 21041

Cs137 Serial Number: 75-2470

Am241/Be Serial Number: 47-16512

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Date Sample Collected: 11/10/2006

Date Sample Analyzed: 11/22/2006

Analyzed By: Richard Aguinaga

Sample Activity  $\alpha$ : < .000004  $\mu$ Ci

Sample Activity  $\beta$ : < .00005  $\mu$ Ci

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A sample activity of 0.005  $\mu$ Ci or greater is considered by Federal and most Agreement state regulations to be a leaking source and must be removed from service and reported to the applicable regulatory agency within five days of the test.

Analysis found contamination of less than 0.005 microcurie.

Analysis authorized by WI License 117-1005-01

  
Richard Aguinaga  
Radiation Safety Officer

# R.M. WESTER & ASSOCIATES, INC.

215 INDACOM DRIVE - ST. PETERS, MISSOURI 63376  
(636) 928-9628 - FAX 928-9857

## RADIOACTIVE SEALED SOURCE LEAK TEST REPORT

Test Date: June 26, 2006

Analytical Date: June 29, 2006

### Source Identification:

Radionuclide: Cs-137

Activity: 8 milliCuries

Manufacturer: Troxler

Model No.: 3440

Mach. S/N: 21041

Source S/N: 75-2470

Sample Submitted by: Savo Radulovic

Facility: Andrews Environmental Engineering

Address: 1701 Quincy Avenue

Suite 25

Naperville, IL 60540

The identified sealed source listed above has been tested for leakage of radioactive materials as required by the United States Nuclear Regulatory Commission. The analysis of the wipe material used in testing the sealed source reveals the presence of  $\leq 1.6 \times 10^{-4}$   $\mu\text{Ci}$  of loose contamination.

(XX) This source is acceptable for continued use.

( ) This source has been found to have a level of loose contamination greater than 0.005  $\mu\text{Ci}$  of removable radioactive materials, and should be removed from service immediately.

(N/A) Operational and performance check of shutter mechanism satisfactory.

Next Leak Test Date: On or before December 26, 2006

Analysis by: Kevin McCann

Reviewed by: Kevin McCann 

# R.M. WESTER & ASSOCIATES, INC.

215 INDACOM DRIVE - ST. PETERS, MISSOURI 63376  
(636) 928-9628 - FAX 928-9857

## RADIOACTIVE SEALED SOURCE LEAK TEST REPORT

Test Date: June 26, 2006

Analytical Date: June 29, 2006

### Source Identification:

Radionuclide: Am-241

Activity: 40 milliCuries

Manufacturer: Troxler

Model No.: 3440

Mach. S/N: 21041

Source S/N: 47-16512

Sample Submitted by: Savo Radulovic

Facility: Andrews Environmental Engineering

Address: 1701 Quincy Avenue

Suite 25

Naperville, IL

60540

The identified sealed source listed above has been tested for leakage of radioactive materials as required by the United States Nuclear Regulatory Commission. The analysis of the wipe material used in testing the sealed source reveals the presence of  $\leq 7.2 \times 10^{-5}$   $\mu\text{Ci}$  of loose contamination.

( XX ) This source is acceptable for continued use.

( ) This source has been found to have a level of loose contamination greater than 0.005  $\mu\text{Ci}$  of removable radioactive materials, and should be removed from service immediately.

( N/A ) Operational and performance check of shutter mechanism satisfactory.

Next Leak Test Date: On or before December 26, 2006

Analysis by: Kevin McCann

Reviewed by: Kevin McCann 

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## RADIOACTIVE SEALED SOURCE LEAK TEST REPORT

Test Date: December 14, 2018

Analytical Date: December 21, 2018

### Source Identification:

Manufacturer: Troxler

Model No.: 3440

Mach S/N: 18629 / *Former Missouri*

Radionuclide: Cs-137

Activity: 0.3 GBq (8 mCi)

Source S/N: 50-8210

Radionuclide: Am-241/Be

Activity: 1.48 GBq (40.0 mCi)

Source S/N: 47-14087

Sample Submitted By: Mike McConnell

Facility: Andrews Engineering, Inc.

Address: 3300 Ginger Creek Drive

Springfield, IL 62711

The identified sealed source listed above has been tested for leakage of radioactive materials as required by the United States Nuclear Regulatory Commission. The analysis of the wipe material used in testing the sealed source reveals the presence of  $\leq 8.19 \times 10^{-5}$   $\mu\text{Ci}$  of loose contamination for Cs-137 and  $\leq 8.08 \times 10^{-5}$   $\mu\text{Ci}$  of loose contamination for Am-241.

( X ) This source is acceptable for continued use.

( ) This source has been found to have a level of loose contamination greater than 0.005  $\mu\text{Ci}$  of removable radioactive materials, and should be removed from service immediately.

( N/A ) Operational and performance check of shutter mechanism satisfactory.

Next Leak Test Date: June 14, 2019

Analysis By: Kenneth Barnes

Reviewed By: *[Signature]*





3300 Ginger Creek Drive  
Springfield, Illinois 62711  
217.787.2334

To: Materials and Licensing Section  
U.S. Nuclear Regulatory Commission  
Region III  
2443 Warrenville Road, Suite 210  
Lisle, Illinois 60532-4352  
ATTN: Laura Cender

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