



**United States Department of the Interior**  
**BUREAU OF INDIAN AFFAIRS**  
Great Lakes Agency  
916 Lakeshore Drive West  
Ashland, Wisconsin 54806



IN REPLY REFER TO:

Branch of Roads/Engineering

October 30, 2017

Region III  
U.S. Nuclear Regulatory Commission  
DNMS/Materials Licensing Branch  
Lisle, IL 60532-4352

RE: NRC License No. 48-32735.01

The subject license listed Troxler Model 3400 devices. This is to confirm that we have never possessed these gauges.

If you should have any questions, please contact me by phone at 715-685-2396 or email at [jeffrey.bradley@bia.gov](mailto:jeffrey.bradley@bia.gov).

Sincerely,

Jeffrey S. Bradley, ME, PE  
Highway Engineer/  
Radiation Safety Officer

# Moisture Density Gauge Inventory

Inventory Date: 7-2-2015

## **Great Lakes Agency**

916 Lakeshore Drive West  
Ashland, WI 54806

- Seaman Nuclear Model C-300 S/N 21132  
Radium-226, 4.5mCi
- Seaman Nuclear Model C-300 S/N 21134  
Radium-226, 4.5mCi
- Seaman Nuclear Model C-200 S/N L330  
Radium-226, 4.5mCi
- Seaman Nuclear Model C-200 S/N L328  
Radium-226, 4.5mCi

## **Shawano Field Office**

110 Prairie Street  
Shawano, WI 54166

- Gauges moved to Ashland

## **Minnesota Agency**

522 Minnesota Avenue NW  
Bemidji, MN 56601

- Gauge moved to Ashland

## **Disposed Gauges**

- Seaman Nuclear Model C-75BP S/N 7306  
Radium-226, 4.5mCi
- Seaman Nuclear Model C-75BP S/N 7302  
Radium-226, 4.5mCi

# Seaman Nuclear Corporation

7315 South First Street • Oak Creek, WI 53154 USA  
Tel 414-7625100 • Fax 414-762-5106

August 4, 2015

Bureau of Indian Affairs  
Great Lakes Agency  
916 W Lakeshore Dr  
Ashland, WI

Gentlemen:

We confirm your transfer to Seaman Nuclear Corporation the following devices:

One Seaman Nuclear Model C-75 portable density gauge, serial number 7302, containing 4.5 mCi of radium226/be in a sealed source.

One Seaman Nuclear Model C-75 portable density gauge, serial number 7306, containing 4.5 mCi of radium226/be in a sealed source.

These gauges were received at Seaman Nuclear on July 1, 2015.

Seaman Nuclear Corporation holds a radioactive materials license issued by the State of Wisconsin Health Department, 079 1257 01.

Sincerely,

(signed)

Harry J. Seaman  
Vice President

# Seaman Nuclear Corporation

7315 South First Street Oak Creek, WI 53154 USA

Tel 414-762-5100 Fax 414-762-5106

info@seamannuclear.com

## Leak Test Certificate

June 11, 2015

A leak test has been performed on meter, serial number **7302**, a model C-75-A, containing the radionuclide Ra 226

Owned By: Bureau of Indian Affairs - Ashland  
Great Lakes Agency  
916 W. Lakeshore Dr.  
Ashland, WI 54806

Date Sample Collected: 6/1/15  
Collected By: J. Bradley  
Date Sample Analyzed: 6/10/15  
Analyzed By: K. Krysiak

Most regulatory agencies consider a source to be leaking if a leak test reveals the presence of more than 0.005 microcurie of removable contamination.


Analysis found contamination of less than 0.005 microcurie.

Analysis authorized by Wisconsin license 079-1257-01.

**LEAK TEST DUE: 12/1/15**



Scott C. Seaman  
Radiation Safety Officer  
Seaman Nuclear Corporation

S/N: 7302  
Leak Tested: 6/1/15  
Due: 12/1/15  
 Seaman Nuclear Corporation  
Oak Creek, WI (414) 762-5100

# Seaman Nuclear Corporation

7315 South First Street Oak Creek, WI 53154 USA

Tel 414-762-5100 Fax 414-762-5106

Info@seamannuclear.com

## Leak Test Certificate

June 11, 2015

A leak test has been performed on meter, serial number 7306, a model C-75-A, containing the radionuclide Ra 226

Owned By: Bureau of Indian Affairs - Ashland  
Great Lakes Agency  
916 W. Lakeshore Dr.  
Ashland, WI 54806

Date Sample Collected: 6/1/15  
Collected By: J. Bradley  
Date Sample Analyzed: 6/10/15  
Analyzed By: K. Krysiak

Most regulatory agencies consider a source to be leaking if a leak test reveals the presence of more than 0.005 microcurie of removable contamination.


Analysis found contamination of less than 0.005 microcurie.

Analysis authorized by Wisconsin license 079-1257-01.

**LEAK TEST DUE: 12/1/15**



Scott C. Seaman  
Radiation Safety Officer  
Seaman Nuclear Corporation

S/N: 7306  
Leak Tested: 6/1/15  
Due: 12/1/15  
 Seaman Nuclear Corporation  
Oak Creek, WI (414) 762-5100

# Moisture Density Gauge Inventory

Inventory Date: 10-11-2016

## **Great Lakes Agency**

916 Lakeshore Drive West  
Ashland, WI 54806

- Seaman Nuclear Model C-300 S/N 21132  
Radium-226, 4.5mCi
- Seaman Nuclear Model C-300 S/N 21134  
Radium-226, 4.5mCi
- Seaman Nuclear Model C-200 S/N L330  
Radium-226, 4.5mCi

## **Shawano Field Office**

110 Prairie Street  
Shawano, WI 54166

- Gauges moved to Ashland

## **Minnesota Agency**

522 Minnesota Avenue NW  
Bemidji, MN 56601

- Gauge moved to Ashland

## **Disposed Gauges**

- Seaman Nuclear Model C-200 S/N L328  
Radium-226, 4.5mCi



**United States Department of the Interior**  
**BUREAU OF INDIAN AFFAIRS**  
 Great Lakes Agency  
 916 Lakeshore Drive West  
 Ashland, Wisconsin 54806



IN REPLY REFER TO:

Branch of Roads/Engineering

July 5, 2016

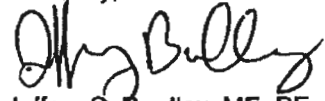
Seaman Nuclear Corporation  
 7315 South First Street  
 Oak Creek, WI 53154

RE: Record of Transfer  
 Seaman Nuclear Model No. C-200, Serial No. L328

The Bureau of Indian Affairs – Midwest Region Branch of Roads owns the referenced nuclear density gauge which needs to be disposed. Seaman Nuclear Corporation holds a radioactive materials license issued by the State of Wisconsin and has agreed to take ownership of this gauge for disposal. In order to accomplish the gauge transfer, I ask that you sign and date at the bottom of this form. I will likewise sign and date the form as the transferee.

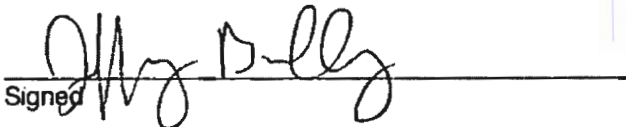
If you should have any questions, please contact me by phone at 715-685-2396 or email at [jeffrey.bradley@bia.gov](mailto:jeffrey.bradley@bia.gov).

Sincerely,

  
 Jeffrey S. Bradley, ME, PE  
 Highway Engineer/  
 Radiation Safety Officer

**RECORD OF TRANSFER**  
**SEAMAN NUCLEAR GAUGE MODEL NO. C-200, SERIAL NO. L328**  
**CONTAINING 4.5 mCi OF RADIUM 226/be IN A SEALED SOURCE**

As the transferee, I acknowledge that the gauge referenced above has been transferred from my possession to the recipient below.

  
 Signed \_\_\_\_\_

7/7/16  
 Date \_\_\_\_\_

As the recipient, I acknowledge that the gauge referenced above has been transferred to my possession from the transferee above.

  
 Signed \_\_\_\_\_

7/7/16  
 Date \_\_\_\_\_

UNITED STATES  
DEPARTMENT OF THE INTERIOR

Page 1 of 1

**CERTIFICATE OF UNSERVICEABLE PROPERTY**

Certificate No.

DS6FF106017

Date

05/31/2016

May only be used when property is unserviceable through fair wear and tear; there are no apparent property irregularities; no need to determine employee financial liability; no possible claims against the Government; firearms and weapons, ammunition, hazardous materials, controlled substances, explosives, or museum property are not included.

**A. Originating Office and Telephone No. (include area code,**

MRO ROADS GLA AAFF003700  
(715) 685-2396  
916 LAKE SHORE DR WEST  
ASHLAND WI 54806

**Accountable Office and Location**

PROPERTY AAFF001060  
(612) 725-4535  
BIA MIDWEST REGIONAL OFFICE  
5600 W. AMERICAN BLVD., SUITE 500, BLOOMINGTON MN 55437

**Identified Item(s) are:**

Unserviceable  Obsolete  Other (specify)

**STATEMENT OF CIRCUMSTANCES INVOLVING THE IDENTIFIED PROPERTY MUST BE ATTACHED**

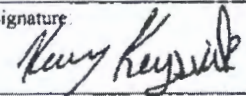
ITEM NO.	QUANTITY OR PROPERTY ID NO.	ITEM DESCRIPTION	ORIGINAL ACQUISITION COST (OAC)	CONDITION CODE (See Reverse)	ESTIMATED VALUE
001	NO TAG	(NOT IN FBMS) -66531200 METER DENSITY SEAMAN NUCLEAR CORP MOD C-200 SN L-328  ITEM NOT RECORDED IN CURRENT FBMS IA INVENTORY OR FOR COST CENTER AAFF003700 FOR DISPOSAL BY PROGRAM REFERENCE ASSET DOCUMENTS PD PS2F5500115, AND MICROPURCHASE FOR DISPOSAL, BIA 4314 AAFF003700 F0037016040	7401.00	S	0.00

**B. Recommended disposition (check one):**  Repair / Reutilization  Sale / Trade-in  Salvage  Scrap / Destruction  Abandon  Other (specify):

To the best of my knowledge the attached statement of circumstances is correct and recommendations are in the best interest of the Government.

Signature of Cognizant Employee: 		Date: 7/5/16	Signature of Custodial Officer: TODD KENNEDY <small>Digitally signed by TODD KENNEDY DN: cn=US, ou=US Government, ou=Department of the Interior, ou=Region 10, email=t.kennedy@ios.doi.gov, c=US</small>		Date: 5/31/16
Property Staff Recommendations: DISPOSAL BY MANUFACTURER	Signature: RYAN BURROWS <small>Digitally signed by RYAN BURROWS DN: cn=US, ou=US Government, ou=Department of the Interior, ou=Region 10, email=r.burrows@ios.doi.gov, c=US</small>	Date: 05/31/2016	Signature of Accountable Officer: RYAN BURROWS <small>Digitally signed by RYAN BURROWS DN: cn=US, ou=US Government, ou=Department of the Interior, ou=Region 10, email=r.burrows@ios.doi.gov, c=US</small>		Date: 05/31/2016
C. Reviewing Authority: <input checked="" type="checkbox"/> Approved <input type="checkbox"/> Disapproved <input type="checkbox"/> Comments Attached		Signature: RYAN BURROWS <small>Digitally signed by RYAN BURROWS DN: cn=US, ou=US Government, ou=Department of the Interior, ou=Region 10, email=r.burrows@ios.doi.gov, c=US</small>		Date: 05/31/2016	

**D. Certificate of destruction: I certify that the Item(s) No.(s) 001 listed above has been destroyed.**

Official Responsible for Destruction: SEAMAN NUCLEAR (PRINT NAME)	Title: Shipper / Tech	Signature: 	Date: 7/7/16
Witness Name: GLA ROADS (PRINT NAME)	Title: Hickman, Eng/RSO	Signature: 	Date: 7/7/16
E. Adjustment to property records (Property Official Signature):	Date Completed:	Financial Official (If Required):	Date Completed:



# Seaman Nuclear Corporation

7315 South First Street Oak Creek, WI 53154 USA

Tel 414-762-5100 Fax 414-762-5106

info@seamannuclear.com

## Leak Test Certificate

June 16, 2016

A leak test has been performed on meter, serial number L328, a model C-200, containing the radionuclide Ra 226

Owned By: Bureau of Indian Affairs - Ashland  
Great Lakes Agency  
916 W. Lakeshore Dr.  
Ashland, WI 54806

Date Sample Collected: 4/11/16

Collected By: J Brdley

Date Sample Analyzed: 6/16/16

Analyzed By: HJS

Most regulatory agencies consider a source to be leaking if a leak test reveals the presence of more than 0.005 microcurie of removable contamination.

Analysis found contamination of less than 0.005 microcurie.

Analysis authorized by Wisconsin license 079-1257-01.

**LEAK TEST DUE: 10/11/16**



Scott C. Seaman  
Radiation Safety Officer  
Seaman Nuclear Corporation



United States Department of the Interior  
BUREAU OF INDIAN AFFAIRS  
Great Lakes Agency  
916 Lakeshore Drive West  
Ashland, Wisconsin 54806



IN REPLY REFER TO:

Branch of Roads/Engineering

May 24, 2012

Document Control Desk, Director  
U.S. Nuclear Regulatory Commission  
Office of Federal and State Materials and Environmental Management Programs  
Washington, DC 20555-0001

RE: NRC Material License No. 48-32735-01  
NRC Incident Number 47808

Pursuant to 10 CFR 30.50 (c) (2), the following is a **revised** written follow-up report for NRC Incident Number 47808 reported by phone on April 6<sup>th</sup>, 2012.

On April 6<sup>th</sup> at approximately 9:00 am CDT an individual brought a Troxler density gauge to our office at 916 Lakeshore Drive West, Ashland WI. This person found the gauge on the Bad River Indian Reservation east of Ashland and south of US Highway 2 near a location called "Old Odana", exact location unknown. He agreed to turn the gauge over to us so it could be properly disposed. The gauge source rod was rusted, not operable, and in the shielded position. A leak test was performed on the gauge and it was determined that the source was not leaking.

Gauge Details:

Troxler model 3411-B, serial no. 8975  
Cs-137 7.5 millicuries  
Am-241:Be 40 millicuries

We have since been contacted by the gauge owner, Short Elliott Hendrickson, Inc. (SEH) of Chippewa Falls, WI who reported the gauge stolen in 1982. **SEH took possession of the gauge May 24, 2012. A copy of the "Record of Transfer" is attached which states their intention to ship gauge to Troxler Laboratories for disposal.**

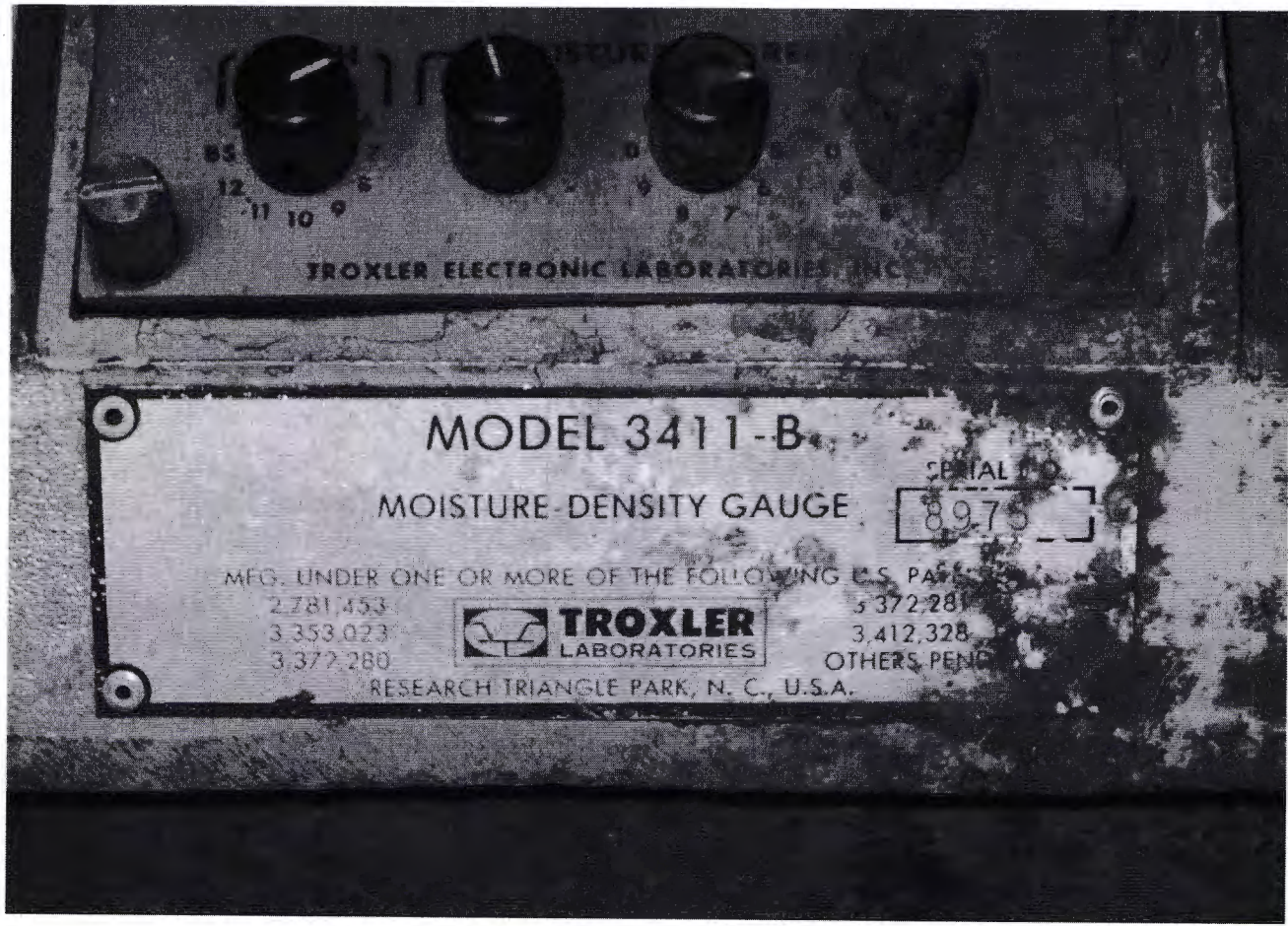
The exposure to the individual is unknown since we don't know how long he possessed it before bringing it to us. It seems unlikely that there was any significant exposure due to the source being shielded, the source rod not operable, and determined to be not leaking.

If you should have any questions, please contact me by phone at 715-682-2709 or email at [jeffrey.bradley@bia.gov](mailto:jeffrey.bradley@bia.gov).

Sincerely,

Jeffrey S. Bradley, ME, PE  
Highway Engineer/  
Radiation Safety Officer

Attachments: gauge photo's  
Leak Test Certificate  
Record of Transfer



## Seaman Nuclear Corporation

7315 South First Street Oak Creek, WI 53154 USA  
info@seamannuclear.com, Tel 414-762-5100 Fax 414-762-5106

### Leak Test Certificate

May 3, 2012

A leak test has been performed on meter, serial number 8975, a model Troxler, containing the radionuclide Cs 137, Am 241.

Owned By: Bureau of Indian Affairs - Ashland  
Great Lakes Agency  
916 W. Lakeshore Dr.  
Ashland, WI 54806

Date Sample Collected: 4/23/12  
Collected By: J. Bradley  
Date Sample Analyzed: 4/27/12  
Analyzed By: T. Lindemann

Most regulatory agencies consider a source to be leaking if a leak test reveals the presence of more than 0.005 microcurie of removable contamination.

Analysis found contamination of less than 0.005 microcurie.

Analysis authorized by Wisconsin license 079-1257-01.

**LEAK TEST DUE: 10/23/12**



Scott C. Seaman  
President & Radiation Safety Officer, Seaman Nuclear Corporation



May 15, 2012

RE: Record of Transfer  
Troxler Gauge Model No. 3411B, Serial No. 8975  
SEH No. 1.90 RSO File

Mr. Jeff Bradley, P.E.  
Bureau of Indian Affairs  
Midwest Region-Great Lakes Agency  
916 W. Lakeshore Drive  
Ashland, WI 54806

Dear Mr. Bradley:

Short Elliott Hendrickson Inc. (SEH®) understands that the Bureau of Indian Affairs Midwest Region – Great Lakes Agency has come into possession of the referenced Troxler nuclear density gauge that SEH had reported stolen in 1982. We understand the gauge is in poor condition and will need to be disposed. SEH intends to have one of our gauge users stop at your office to pick up the gauge and transport the gauge back to SEH's secure Troxler gauge storage area located at 1003 West Park Avenue, Chippewa Falls, Wisconsin. SEH will then ship the gauge to Troxler for disposal. In order to accomplish the gauge transfer, I ask that you sign and date at the bottom of this form as the transferee. Our gauge user who picks up the gauge will likewise sign at the bottom as the recipient to complete the record of transfer. I ask that you then make a copy of this record of transfer for your files and send the original with our gauge user.

We appreciate your assistance in this matter. If you have any questions about transferring the gauge to SEH, feel free to send me an email at [kaccola@sehinc.com](mailto:kaccola@sehinc.com) or call me at 715.720.6224.

Sincerely,

Kevin E. Accola, CHMM|Associate  
Radiation Safety Officer

KEA/  
s:\rsolost\gauge 8975 transfer of troxler gauge.doc

**RECORD OF TRANSFER  
TROXLER GAUGE MODEL NO. 3411-B, SERIAL NO. 8975**

As the transferee, I acknowledge that the gauge referenced above has been transferred from my possession to the recipient below.

Jeff Bradley RSO  
Signed

5/24/2012  
Date

As the recipient, I acknowledge that the gauge referenced above has been transferred to my possession from the transferee above.

[Handwritten Signature]  
Signed

5-24-12  
Date

## Cender, Laura

---

**From:** Cender, Laura  
**Sent:** Tuesday, October 31, 2017 7:31 AM  
**To:** 'Bradley, Jeffrey'  
**Subject:** RE: Re: Re: NRC Materials License No. 48-32735-01 Termination - Additional Information Requested

Hello Jeffrey,

Thank you for sending the supporting documents. I am fine with the statement you provided, I will just make a note of incident in the licensing file.

Regards,  
Laura Cender

Laura Cender  
U.S. Nuclear Regulatory Commission  
Materials Licensing Branch  
E-mail: [Laura.Cender@nrc.gov](mailto:Laura.Cender@nrc.gov)  
Phone: (630) 829-9712

**From:** Bradley, Jeffrey [<mailto:jeffrey.bradley@bia.gov>]  
**Sent:** Monday, October 30, 2017 3:25 PM  
**To:** Cender, Laura <[Laura.Cender@nrc.gov](mailto:Laura.Cender@nrc.gov)>  
**Subject:** [External\_Sender] Re: Re: NRC Materials License No. 48-32735-01 Termination - Additional Information Requested

Hello Laura,

Attached are the disposal documents and leak tests for the remaining Seaman Nuclear gauges. I prepared a statement for the Troxler 3400 devices. As I completed it, I remembered we had someone turn in a Troxler 3411 gauge which they found. It never showed up on our inventory since we only briefly held it before it was turned over to the original owner. I also attached the incident follow-up report since we reported it to the NRC. Now I'm not sure if the statement I prepared is still true?? It's up to you how you wish to proceed with it.

Let me know if you have questions

### **Jeffrey Bradley, P.E.**

Bureau of Indian Affairs/Midwest Region-Great Lakes Agency  
916. W Lakeshore Drive  
Ashland, WI 54806  
Office: 715-685-2396 Fax: 715-682-8391  
Mobile: 715-292-8573

On Tue, Oct 17, 2017 at 7:37 AM, Cender, Laura <[Laura.Cender@nrc.gov](mailto:Laura.Cender@nrc.gov)> wrote:

Hello Jeffrey,

Thank you for your prompt response, the week of October 30<sup>th</sup> is fine. Also with your response please include a statement with a signature confirming that you have never possessed the Troxler 3400 devices for inclusion in the licensing file.

Please let me know if you have any questions.

Thank you,

Laura

Laura Cender

U.S. Nuclear Regulatory Commission

Materials Licensing Branch

E-mail: [Laura.Cender@nrc.gov](mailto:Laura.Cender@nrc.gov)

Phone: (630) 829-9712

**From:** Bradley, Jeffrey [mailto:[jeffrey.bradley@bia.gov](mailto:jeffrey.bradley@bia.gov)]

**Sent:** Monday, October 16, 2017 10:06 PM

**To:** Cender, Laura <[Laura.Cender@nrc.gov](mailto:Laura.Cender@nrc.gov)>

**Subject:** [External\_Sender] Re: NRC Materials License No. 48-32735-01 Termination - Additional Information Requested

Hello Laura,

We have owned up to 6 portable devices, two of which were Seaman Nuclear C-75BP gauges. We have never possessed the Troxler 3400 gauges. When we applied for the license, we were looking at purchasing these to replace our Seaman Nuclear gauges. This never happened.

I can provide the transfer records and last leak tests for the 3 other gauges. However, I'm currently in the field this week and will be on vacation the following week. If this is urgent, I can have someone scan the info and email it to you. Otherwise, I can send it when I get back in the office on October 30th.

Please let me know,

thanks

## **Jeffrey Bradley, P.E.**

Bureau of Indian Affairs/Midwest Region-Great Lakes Agency

916. W Lakeshore Drive

Ashland, WI 54806

Office: 715-685-2396 Fax: 715-682-8391

Mobile: 715-292-8573

On Mon, Oct 16, 2017 at 2:26 PM, Cender, Laura <[Laura.Cender@nrc.gov](mailto:Laura.Cender@nrc.gov)> wrote:

Hello Jeffrey,

My name is Laura Cender and I called and left you a voicemail earlier today regarding your NRC license termination request.

Your request provided leak test and transfer records for three portable gauging devices, one Seaman Nuclear Model C-200 device and two Seaman Nuclear Model C-300 devices. When reviewing previous inspection records it appears that your organization has possessed additional licensed material in the past. Records from your 2015 inspection state that your organization possessed four Seaman Nuclear devices, and records from 2009 state that your organization possessed as many as 6 Seaman Nuclear gauges. Please provide transfer/disposal records and copies of the most recent leak tests for all devices previously possessed.



Additionally, your license authorized use of Troxler 3400 series and Seaman Nuclear C-75BP portable nuclear devices. If you have never possessed either of these type of device, please submit a statement confirming such, 1-2 sentences is acceptable.

Please feel free to contact me at 630-829-9712 or via email if you have any questions.

Thank you,

Laura

Laura Cender

U.S. Nuclear Regulatory Commission

Materials Licensing Branch

E-mail: [Laura.Cender@nrc.gov](mailto:Laura.Cender@nrc.gov)

Phone: (630) 829-9712