



51331 W. Pontiac Trail • Wixom, MI 48993 • 248.486.5100 Phone • 248.486.5050 Fax

September 16, 2010

Ms. Patricia Pelke
United States Nuclear Regulatory Agency (NRC)
2443 Warrenville Road, Suite 210
Lisle, Illinois 60532-4352

**Subject: NRC Material License Number 21-17007-01
License Amendment Request**

Dear Ms. Pelke:

The purpose of this letter is to request an amendment to the NRC Material License issued to CTI and Associates, Inc. (CTI). We would like to request that the following changes be made to our License No. 21-17007-01:

1. Item #s 8 & 9 – Add authorization to use InstroTek, Inc. Model 3500 Xplorer nuclear moisture/density gauge for measurement of soils and construction materials. The Model 3500 is registered under Sealed Source and Device Registration Certificate No. NC-1241-D-101-S, and contains the following sealed sources:
 - a. Cs-137 (AEA Technology QSA Model No. CDC.805 or Isotope Products Laboratories Model HEG 137).
Maximum activity: 11mCi
 - b. Am-241:Be (AEA Technology QSA, Inc. Model No. AMN.V977 or Isotope Products Laboratories Model AM1.NO2).
Maximum activity: 44mCi
2. Item #10 – Remove 12482 Emerson Drive Brighton, MI as a material storage facility. This location previously served as a nuclear density gauge storage facility but will do so no longer under this license.

Attachment A contains the leak test records for all nuclear density gauges previously stored at the above mentioned address. These records are provided in response to the request for additional information to control number 318687 as stated in correspondence from Jose Macatangay (NRC) dated March 11, 2010. The records demonstrate that no residual radioactive contamination could exist at that address as a result of storing these gauges.

3. Item #11 – Remove Steven Wintheiser and add Elizabeth A. Taylor, P.E. as the Radiation Safety Officer (RSO). Mr. Wintheiser is no longer employed with CTI.

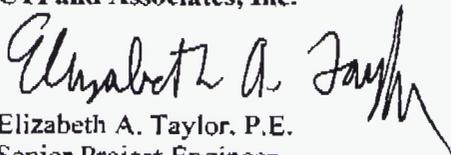


Attachment B includes a letter from the President of CTI and Associates, Inc. stating his intent to appoint Ms. Taylor as the RSO and Ms. Taylor's acceptance of the duties and responsibilities of the position.

We look forward to your expeditious review and approval of this information. Please contact me at 248.486.5100 if you have any questions.

Sincerely,

CTI and Associates, Inc.


Elizabeth A. Taylor, P.E.
Senior Project Engineer
Radiation Safety Officer

Attachments:

- A- Leak test records for Nuclear Density Gauges stored at previous office location.
- B- Letter of Appointment from Morgan Subbarayan, P.E., President of CTI and Associates, Inc.



ATTACHMENT A

**Leak Test Records for Nuclear Density Gauges Stored at
12482 Emerson Dr. Brighton, MI 48116**

InstroTek, Inc.
5908 Triangle Drive
Raleigh, NC 27617
(919)875-8371 Fax (919)875-8328

4/30/2010
Test Number: 1

BETH TAYLOR
CTI CONSULTANTS (BRIGHTON)
12482 EMERSON DR
BRIGHTON, MI 48116

Phone: (248)486-5100
Fax: (248)486-5050

LEAK TEST CERTIFICATE

NC Materials License #092-1073-1

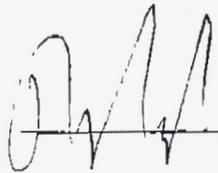
This certifies that leak test analysis was conducted on the sample with the following information. The results shown below accurately represent the level of removable contamination.

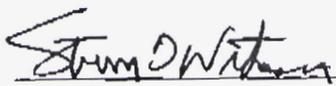
Gauge Model: 3411
Gauge S/N: 10794

Test Date: 4/9/2010

Source (Model/Serial#)	Reading in microCuries
47-6189	0.00000
40-8480	0.00030

Note: 0.005 microCuries (185 Bq) or greater is considered a leaking source.° The source(s) tested above may remain in use.

Reviewed by:  Date: 4/30/10

Customer Signature:  Date: 5/10/10

°CPN gauges are 50 mCi Am241:Be and 10 mCi Cs-137. Humboldt gauges are 40 mCi Am241:Be and 10 mCi Cs-137. InstroTek Gauge is 40 mCi Am241:Be and 10 mCi Cs-137. Troxler gauges all, except 4640, are 40 mCi Am241:Be and 8 mCi Cs-137. Troxler 4640 is 8 mCi Cs-137.

InstroTek, Inc.
5908 Triangle Drive
Raleigh, NC 27617
(919)875-8371 Fax (919)875-8328

4/23/2010
Test Number: 1

BETH TAYLOR
CTI AND ASSOCIATES, INC.
51331 W. PONTIAC TRAIL
WIXOM, MI 48393

Phone: (248)486-5100
Fax: (248)486-5050

LEAK TEST CERTIFICATE

NC Materials License #092-1073-1

This certifies that leak test analysis was conducted on the sample with the following information. The results shown below accurately represent the level of removable contamination.

Gauge Model: 3411
Gauge S/N: 11693

Test Date: 4/19/2010

Source (Model/Serial#)	Reading in microCuries
N/A	0.00000
N/A	0.00024

Note: 0.005 microCuries (185 Bq) or greater is considered a leaking source.° The source(s) tested above may remain in use.

Reviewed by: *[Signature]*

Date: 4/23/10

Customer Signature: *[Signature]*

Date: 04/29/10

°CPN gauges are 50 mCi Am241:Be and 10 mCi Cs-137. Humboldt gauges are 40 mCi Am241:Be and 10 mCi Cs-137. InstroTek Gauge is 40 mCi Am241:Be and 10 mCi Cs-137. Troxler gauges all, except 4640, are 40 mCi Am241:Be and 8 mCi Cs-137. Troxler 4640 is 8 mCi Cs-137.

InstroTek, Inc.
5908 Triangle Drive
Raleigh, NC 27617
(919)875-8371 Fax (919)875-8328

5/25/2010
Test Number: 1

JOSH GUY
CTI AND ASSOCIATES, INC.
51331 W. PONTIAC TRAIL
WIXOM, MI 48393

Phone: (248)486-5100
Fax: (248)486-5050

LEAK TEST CERTIFICATE
NC Materials License #092-1073-1

This certifies that leak test analysis was conducted on the sample with the following information. The results shown below accurately represent the level of removable contamination.

Gauge Model: 3440
Gauge S/N: 16655

Test Date: 5/21/2010

Source (Model/Serial#)	Reading in microCuries
N/A	0.00000
N/A	0.00023

Note: 0.005 microCuries (185 Bq) or greater is considered a leaking source.° The source(s) tested above may remain in use.

Reviewed by: *[Signature]* Date: 5/25/10

Customer Signature: *[Signature]* Date: 5/01/10

°CPN gauges are 50 mCi Am241:Be and 10 mCi Cs-137. Humboldt gauges are 40 mCi Am241:Be and 10 mCi Cs-137. InstroTek Gauge is 40 mCi Am241:Be and 10 mCi Cs-137. Troxler gauges all, except 4640, are 40 mCi Am241:Be and 8 mCi Cs-137. Troxler 4640 is 8 mCi Cs-137.

InstroTek, Inc.
5908 Triangle Drive
Raleigh, NC 27617
(919)875-8371 Fax (919)875-8328

4/30/2010
Test Number: 1

BETH TAYLOR
CTI CONSULTANTS (BRIGHTON)
12482 EMERSON DR
BRIGHTON, MI 48116

Phone: (248)486-5100
Fax: (248)486-5050

LEAK TEST CERTIFICATE

NC Materials License #092-1073-1

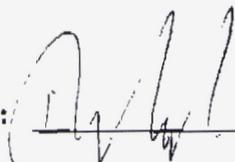
This certifies that leak test analysis was conducted on the sample with the following information. The results shown below accurately represent the level of removable contamination.

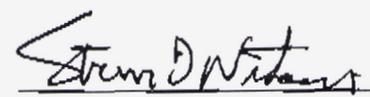
Gauge Model: 3440
Gauge S/N: 19784

Test Date: 4/9/2010

Source (Model/Serial#)	Reading in microCuries
47-15272	0.00000
50-9619	0.00021

Note: 0.005 microCuries (185 Bq) or greater is considered a leaking source.° The source(s) tested above may remain in use.

Reviewed by:  Date: 4/30/10

Customer Signature:  Date: 5/10/10

°CPN gauges are 50 mCi Am241:Be and 10 mCi Cs-137. Humboldt gauges are 40 mCi Am241:Be and 10 mCi Cs-137. InstroTek Gauge is 40 mCi Am241:Be and 10 mCi Cs-137. Troxler gauges all, except 4640, are 40 mCi Am241:Be and 8 mCi Cs-137. Troxler 4640 is 8 mCi Cs-137.

InstroTek, Inc.
5908 Triangle Drive
Raleigh, NC 27617
(919)875-8371 Fax (919)875-8328

4/27/2010
Test Number: 1

BETH TAYLOR
CTI AND ASSOCIATES, INC.
51331 W. PONTIAC TRAIL
WIXOM, MI 48393

Phone: (248)486-5100
Fax: (248)486-5050

LEAK TEST CERTIFICATE

NC Materials License #092-1073-1

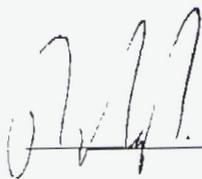
This certifies that leak test analysis was conducted on the sample with the following information. The results shown below accurately represent the level of removable contamination.

Gauge Model: 3430
Gauge S/N: 24876

Test Date: 4/20/2010

Source (Model/Serial#)	Reading in microCuries
N/A	0.00000
N/A	0.00028

Note: 0.005 microCuries (185 Bq) or greater is considered a leaking source.° The source(s) tested above may remain in use.

Reviewed by: 

Date: 4/27/10

Customer Signature: 

Date: 05/14/10

°CPN gauges are 50 mCi Am241:Be and 10 mCi Cs-137. Humboldt gauges are 40 mCi Am241:Be and 10 mCi Cs-137. InstroTek Gauge is 40 mCi Am241:Be and 10 mCi Cs-137. Troxler gauges all, except 4640, are 40 mCi Am241:Be and 8 mCi Cs-137. Troxler 4640 is 8 mCi Cs-137.



ATTACHMENT B

**Letter of Appointment from
Morgan Subbarayan, P.E., President of CTI and Associates, Inc.**



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September 16, 2010

Ms. Patricia Pelke
United States Nuclear Regulatory Agency
2443 Warrenville Road, Suite 210
Lisle, Illinois 60532-4352

**Subject: NRC Material License Number 21-17007-01
Radiation Safety Officer**

Dear Ms. Pelke:

This letter is provided to state our intent to appoint Ms. Elizabeth A. Taylor as the Radiation Safety Officer (RSO) for CTI and Associates, Inc. (CTI) on NRC Material License No. 21-17007-01.

In addition to the training she has received, Ms. Taylor has served as an RSO with her previous employer for 10 years under License No. 12-16941-01. Ms. Taylor has agreed to accept the role of CTI's RSO and is aware of the duties and responsibilities associated with the position.

Please contact us at 248.486.5100 if you have any questions regarding this information.

Sincerely,

CTI and Associates, Inc.

A handwritten signature in black ink, appearing to read 'M. Subbarayan', written over a horizontal line.

Morgan Subbarayan, P.E.
President

A handwritten signature in black ink, appearing to read 'Elizabeth A. Taylor', written in a cursive style.

Elizabeth A. Taylor, P.E.
Radiation Safety Officer



CTI and Associates, Inc.

CTI and Associates, Inc.

51331 W. Pontiac Trail
Wixom, MI 48393
248.486.5100 Phone
248.486.5050 Fax
www.cticompanies.com

A Project Delivery Company

FAX

To: NRC REGION III, ATTN: MIKE HEAR	From: ALEX BADE, EIT
Fax: 630-515-1078	Pages: 11
Phone: 630-829-9752	Date: 9/22/2010
Re: MATERIALS LICENSE AMENDMENT	cc:

Comments: