



NTH Consultants, Ltd.

Infrastructure Engineering
and Environmental Services

41780 Six Mile Road
Northville, MI 48168
Phone: 248-553-6300
Fax: 734-524-0927

February 7, 2019

Materials Licensing Branch
United States Nuclear Regulatory Commission
Region III
2443 Warrenville Road, Suite 210
Lisle, IL 60532-4352

Re: License Amendment
Radioactive Materials License No. 21-14894-01

To Whom It May Concern:

With this letter we are requesting amendment to our Materials License as follows.

- 1) NTH Consultants would like to remove the following storage location from our license:

608 S. Washington Avenue Lansing, MI 48933.

I have enclosed the current leak tests for our gages.

Thank you for your assistance. If you have any questions or require additional information, please contact me at (248) 662-2670.

Sincerely,

Jeff Stamper
Radiation Safety Officer

Enclosures

RECEIVED FEB 07 2019

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

2/19/2018
Test Number: 8

Jeff Stamper
NTH Consultants, LTD. (LIVONIA)
11675 BELDEN COURT
LIVONIA, MI 48150

Phone: (248)324-5397
Fax: (734)524-0927

LEAK TEST CERTIFICATE

NC Materials License #092-1073-1

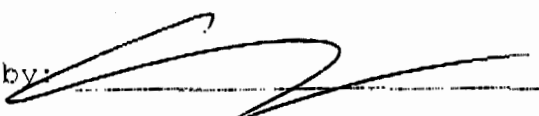
This certifies that leak test analysis was conducted on the sample with the following information. The results shown below accurately represent the level of removable contamination.


Gauge Model: 3411
Gauge S/N: 12663

Test Date: 2/14/2018

Source (Model/Serial#)	Reading in microCuries
47-7970	0.00000
50-1029	0.00027

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: 02/19/2018

Customer Signature:  Date: 2/23/18

*CPN gauges are 10 mCi Am241:Be and 10 mCi Cs-137. Harbaldt gauges are 40 mCi Am241:Be and 10 mCi Cs-137. InstronCos 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.
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Raleigh, NC 27617
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3/26/2018
Test Number: 9

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LIVONIA, MI 48150

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LEAK TEST CERTIFICATE

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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: 12529

Test Date: 3/21/2018

Source (Model/Serial#)	Reading in microCuries
47-7829	0.00000
50-8093	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: 03/26/2018

Customer Signature:  Date: 4/28/18

°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.

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3/26/2018
Test Number: 9

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

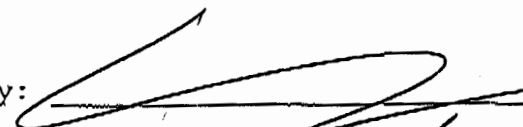
This certifies that leak test analysis was conducted on the sample with the following information. The results shown below accurately represent the level of removable contamination.

Gauge Model: 3401
Gauge S/N: 13350

Test Date: 3/21/2018

Source (Model/Serial#)	Reading in microCuries
47-8541	0.00000
50-1742	0.00027

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: 03/26/2018

Customer Signature:  Date: 4/20/18

°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.
1 Triangle Drive, PO Box 13944
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1/14/2019
Test Number: 9

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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: 3401
Gauge S/N: 13440

Test Date: 1/8/2019

Source (Model/Serial#)	Reading in microCuries
47-8661	0.00001
50-1763	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: 01/14/2019

Customer Signature:  Date: 1/10/19

*CFN 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.
1 Triangle Drive, PO Box 13944
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10/16/2018
Test Number: 9

Jeff Stamper
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LIVONIA, MI 48150

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

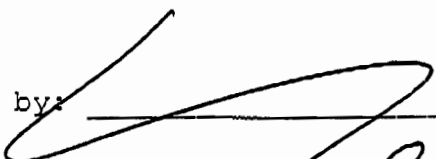
This certifies that leak test analysis was conducted on the sample with the following information. The results shown below*accurately represent the level of removable contamination.

Gauge Model: 3411
Gauge S/N: 14235

Test Date: 10/9/2018

Source (Model/Serial#)	Reading in microCuries
47-9396	0.00001
50-2847	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: 10/16/2018

Customer Signature:  Date: 10/22/18

*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.

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1/14/2019
Test Number: 8

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LEAK TEST CERTIFICATE

NC Materials License #092-1073-1

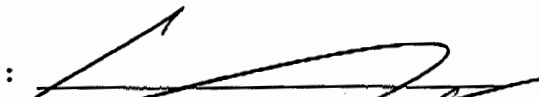
This certifies that leak test analysis was conducted on the sample with the following information. The results shown below accurately represent the level of removable contamination.

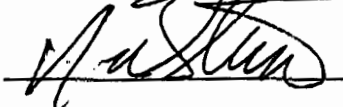
Gauge Model: 3411
Gauge S/N: 14237

Test Date: 1/8/2019

Source (Model/Serial#)	Reading in microCuries
47-9368	0.00000
50-2849	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: 01/14/2019

Customer Signature:  Date: 01/19/19

°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.
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1/14/2019
Test Number: 10

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Phone: (248)324-5397
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LEAK TEST CERTIFICATE

NC Materials License #092-1073-1

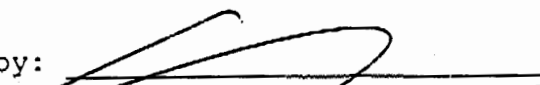
This certifies that leak test analysis was conducted on the sample with the following information. The results shown below accurately represent the level of removable contamination.

Gauge Model: 3401
Gauge S/N: 15921

Test Date: 1/8/2019

Source (Model/Serial#)	Reading in microCuries
47-11278	0.00001
50-4945	0.00025

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: 01/14/2019

Customer Signature:  Date: 01/18/19

°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.
1 Triangle Drive, PO Box 13944
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6/4/2018
Test Number: 5

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LEAK TEST CERTIFICATE

NC Materials License #092-1073-1

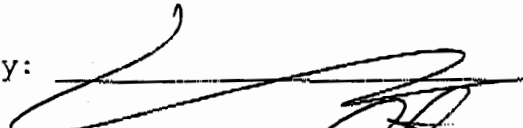
This certifies that leak test analysis was conducted on the sample with the following information. The results shown below accurately represent the level of removable contamination.

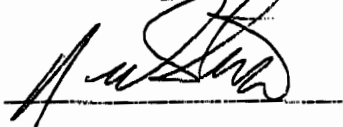
Gauge Model: 3440
Gauge S/N: 27910

Test Date: 5/31/2018

Source (Model/Serial#)	Reading in microCuries
47-24511	0.00000
750-1800	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:  Date: 06/04/2018

Customer Signature:  Date: 6/8/2018

*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 9 mCi Cs-137.

InstroTek, Inc.
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1/22/2019
Test Number: 11

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Phone: (248)324-5397
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LEAK TEST CERTIFICATE
NC Materials License #092-1073-1

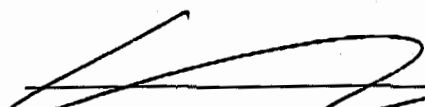
This certifies that leak test analysis was conducted on the sample with the following information. The results shown below accurately represent the level of removable contamination.


Gauge Model: 3440
Gauge S/N: 27915

Test Date: 1/14/2019

Source (Model/Serial#)	Reading in microCuries
47-24516	0.00000
75-1805	0.00026

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: 01/22/2019

Customer Signature:  Date: 1/20/19

°CPN gauges are 50 mCi Am241:Be and 10 mCi Cs-137. Humboldt gauges are 40 mCi Am241:Be and 10 mCi Cs-137. InstronTek 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

3/26/2018
Test Number: 11

Jeff Stamper
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LIVONIA, MI 48150

Phone: (248)324-5397
Fax: (734)524-0927

LEAK TEST CERTIFICATE

NC Materials License #092-1073-1

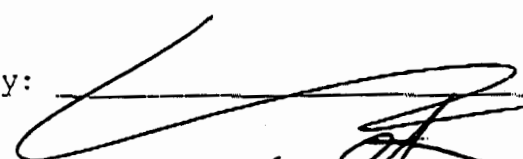
This certifies that leak test analysis was conducted on the sample with the following information. The results shown below accurately represent the level of removable contamination.


Gauge Model: 3440
Gauge S/N: 28445

Test Date: 3/21/2018

Source (Model/Serial#)	Reading in microCuries
47-25447	0.00000
750-2457	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: 03/26/2018

Customer Signature:  Date: 4/30/18

°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.

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1/14/2019
Test Number: 10

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11675 BELDEN COURT
LIVONIA, MI 48150

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LEAK TEST CERTIFICATE

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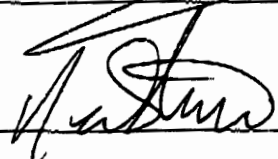
Gauge Model: 3440
Gauge S/N: 29731

Test Date: 1/8/2019

Source (Model/Serial#)	Reading in microCuries
47-25374	0.00001
750-3921	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: 01/14/2019

Customer Signature:  Date: 01/18/19

°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.
1 Triangle Drive, PO Box 13944
Research Triangle Park, NC 27709
(919)875-8371 Fax (919)875-8328

10/16/2018
Test Number: 12

Jeff Stamper
NTH Consultants, LTD. (LIVONIA)
11675 BELDEN COURT
LIVONIA, MI 48150

Phone: (248)324-5397
Fax: (734)524-0927

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: 29736

Test Date: 10/9/2018

Source (Model/Serial#)	Reading in microCuries
47-26658	0.00001
750-3939	0.00033

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: 10/16/2018

Customer Signature:  Date: 10/22/18

°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.

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10/16/2018
Test Number: 12

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LIVONIA, MI 48150

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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: 30418

Test Date: 10/9/2018

Source (Model/Serial#)	Reading in microCuries
47-27473	0.00000
750-4886	0.00027

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: 10/16/2018

Customer Signature: [Signature] Date: 10/22/18

°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.

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3/26/2018
Test Number: 9

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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: 37745

Test Date: 3/21/2018

Source (Model/Serial#)	Reading in microCuries
78-2515	0.00000
774996	0.00031

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: 03/26/2018

Customer Signature:  Date: 4/30/18

°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.

11675 Belden Court
Livonia, MI 48150
Phone: 248.553.6300
Fax: 734-524-0927



NTH Consultants, Ltd

Fax

To: Materials Licensing Branch From: Jeff Stampfer
 Fax: 630-515-1020 Project: LC
 Company: NRC Date: 2/7/2019
 Re: License Amendment Proj. No:

Urgent For Review Please Respond Receiver's Original Original to follow

• **Comments:**

21-14894-01

~~This message is intended only for the use of the individual or entity to which it is addressed and may contain information that is confidential or otherwise exempt from disclosure to others under applicable law. If the reader of this message is not the intended recipient, or the employee or agent responsible for delivering the message to the intended recipient, please recognize that any dissemination, distribution or copying of this communication is strictly prohibited. If you have received this communication in error, please notify us immediately by telephone, and return the original message to us at the address given above via the United States Postal Service. Thank You.~~

LBC
4/15/2019