

# UNDERWOOD ENGINEERING COMPANY

## SOIL & FOUNDATION ENGINEERING

143 Harding Ave. Bellmawr, NJ 08031

**William R. Underwood, PE - President**

**Phone (856) 933-1818 Fax (856) 931-7124**

April 5, 2007

Kathy Dolce Modes  
Security and Industrial Branch  
Division of Nuclear Materials Safety  
Region 1  
King of Prussia, PA 19406

*Q-2  
29-23425-01  
03021053*

RE: Amendment to our licensees  
Items 2 and 10

Dear Kathy,

Underwood Engineering Testing Company, Inc. has moved from 3 South Black Horse Pike, Mt. Ephraim, NJ 08059. Our new address and permanent storage area for the nuclear gauges is 143 Harding Ave. Bellmawr, NJ 08031. All other items in our Material License will remain the same. I have enclosed a copy of all leak test for our troxlers, which cover the dates of our move to show that no contamination has taken place during our move.

Any further information that is needed, please feel free to contact me at 856-933-1818.

Respectfully submitted,  
**Underwood Engineering  
Testing Co., Inc.**

Respectfully submitted,  
**Underwood Engineering  
Testing Co., Inc.**



Patricia Bemserfer, RSO  
Director Testing & Inspection



Cris W. Oslund  
General Manager

RECEIVED  
REGION 1  
2007 APR -9 PM 12:45

*140331*

# UNDERWOOD ENGINEERING COMPANY

## SOIL & FOUNDATION ENGINEERING

143 Harding Ave. Bellmawr, NJ 08031

William R. Underwood, PE - President

Phone (856) 933-1818 Fax (856) 931-7124

### Inventory and Leak Test at the Time of our Move

GAUGE #	LEAK TEST DATE
H-1	9/5/06
T-1	8/23/06
T-2	8/23/06
T-3	8/23/06
T-4	9/22/06
T-5	8/23/06
T-6	OUT OF SERVICE @ TIME OF MOVE – LATEST LEAK TEST
T-8	9/26/06
T-9	8/23/06
T-10	8/23/06
T-11	8/23/06
T-12	9/22/06
T-13	OUT OF SERVICE @ TIME OF MOVE – TESTED 3/22/06, CURRENT TEST 2/14/07
T-14	OUT OF SERVICE @ TIME OF MOVE – TESTED 3/22/06, CURRENT TEST 2/14/07
T-15	OUT OF SERVICE @ TIME OF MOVE – TESTED 10/5/05, CURRENT TEST 2/14/07
T-16 – THIN LIFT	OUR OF SERVICE – PURCHASED 6/24/05, CURRENT TEST 3/13/07
R-1 -- ROOF GAUGE	OUT OF SERVICE – USED ONLY ONCE WITHIN 2 DAYS OF PURCHASING. NO LONGER NEEDED

H-1

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

Date: 3/22/2007  
Test Number: 5

**RAYMOND SANDBERG**  
**UNDERWOOD ENGINEERING TESTING CO.,INC.**  
3 SOUTH BLACKHORSE PIKE  
MT EPHRAIM, NJ 08059-1303

Phone: (856 )933 -1818  
FAX: (856 )931 -7124

## 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: 5001c

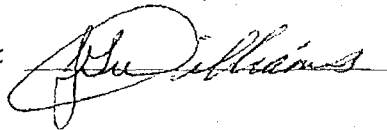
Gauge S/N: 1832

Leak Test Date: 9/5/2006

Source	Reading in microCuries
NJ01832	0.00000
0468GO	0.00036

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:

3-22-07

7-1  
InstroTek, Inc.  
5908 Triangle Dr  
Raleigh, NC 27617  
(919) 875-8371 Fax (919) 875-8328

7-1  
Date: 8/29/2006  
Test Number: 8

RAYMOND SANDBERG  
UNDERWOOD ENGINEERING TESTING CO.,INC.  
3 SOUTH BLACKHORSE PIKE  
MT EPHRAIM, NJ 08059-1303

Phone: (856) 933 -1818  
FAX: (856) 931 -7124

## LEAK TEST CERTIFICATE

NC Materials License #

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: 14340

Leak Test Date: 8/23/2006

<u>Source</u>	<u>Reading in microCuries</u>
47-5747	0.00000
50-2961	0.00034

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

Reviewed by: *J. Williams*

Date: 8-29-06

T-2

#2

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

Date: 8/29/2006  
Test Number: 7

**RAYMOND SANDBERG**  
**UNDERWOOD ENGINEERING TESTING CO.,INC.**  
**3 SOUTH BLACKHORSE PIKE**  
**MT EPHRAIM, NJ 08059-1303**

**Phone: (856 )933 - 1818**  
**FAX: (856 )931 - 7124**

## LEAK TEST CERTIFICATE

NC Materials License #

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: 8724

Leak Test Date: 8/23/2006

<u>Source</u>	<u>Reading in microCuries</u>
47-5126	0.00000
40-6011	0.00038

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:

*8-24-06*

# 3

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

Date: 10/23/2006  
Test Number: 6

**RAYMOND SANDBERG**  
**UNDERWOOD ENGINEERING TESTING CO.,INC.**  
3 SOUTH BLACKHORSE PIKE  
MT EPHRAIM, NJ 08059-1303

**Phone: (856) 933 -1818**  
**FAX: (856) 931 -7124**

## 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: 5501

Leak Test Date: 9/22/2006

<u>Source</u>	<u>Reading in microCuries</u>
47-1607	0.00000
40-2558	0.00036

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

Reviewed by:

J. Williams

Date:

10-23-06

#4

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

Date: 10/18/2006  
Test Number: 8

**RAYMOND SANDBERG**  
**UNDERWOOD ENGINEERING TESTING CO.,INC.**  
**3 SOUTH BLACKHORSE PIKE**  
**MT EPHRAIM, NJ 08059-1303**

**Phone: (856) 933 -1818**  
**FAX: (856) 931 -7124**

## 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: 16571                      Leak Test Date: 9/22/2006

<u>Source</u>	<u>Reading in microCuries</u>
47-11995	0.00000
50-5837	0.00039

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

Reviewed by: *J. Williams*                      Date: 10-18-06

7-5

5

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

Date: 8/29/2006  
Test Number: 7

**RAYMOND SANDBERG**  
**UNDERWOOD ENGINEERING TESTING CO.,INC.**  
**3 SOUTH BLACKHORSE PIKE**  
**MT EPHRAIM, NJ 08059-1303**

**Phone: (856 )933 -1818**  
**FAX: (856 )931 -7124**

## LEAK TEST CERTIFICATE

NC Materials License #

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: 30500                      Leak Test Date: 8/23/2006

Source	Reading in microCuries
47-27596	0.00000
750-3930	0.00035

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: 8/29/06



# 8

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

Date: 10/18/2006  
Test Number: 7

**RAYMOND SANDBERG**  
**UNDERWOOD ENGINEERING TESTING CO.,INC.**  
**3 SOUTH BLACKHORSE PIKE**  
**MT EPHRAIM, NJ 08059-1303**

**Phone: (856 )933 -1818**  
**FAX: (856 )931 -7124**

## 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: 31165                      Leak Test Date: 9/26/2006

<u>Source</u>	<u>Reading in microCuries</u>
47-2373	0.00000
750-5811	0.00035

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

Reviewed by: *J. Williams*                      Date: 10-18-06

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

Date: 8/29/2006  
Test Number: 7

RAYMOND SANDBERG  
UNDERWOOD ENGINEERING TESTING CO.,INC.  
3 SOUTH BLACKHORSE PIKE  
MT EPHRAIM, NJ 08059-1303

Phone: (856 )933 -1818  
FAX: (856 )931 -7124

## LEAK TEST CERTIFICATE

NC Materials License #

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: 32400                      Leak Test Date: 8/23/2006

<u>Source</u>	<u>Reading in microCuries</u>
47-28610	0.00000
750-7661	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:

*J. Williams*

Date:

8-29-06

7-10

10

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

Date: 8/29/2006  
Test Number: 8

**RAYMOND SANDBERG**  
**UNDERWOOD ENGINEERING TESTING CO.,INC.**  
**3 SOUTH BLACKHORSE PIKE**  
**MT EPHRAIM, NJ 08059-1303**

**Phone: (856 )933 -1818**  
**FAX: (856 )931 -7124**

## LEAK TEST CERTIFICATE

NC Materials License #

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: 32399

Leak Test Date: 8/23/2006

<u>Source</u>	<u>Reading in microCuries</u>
47-28609	0.00000
750-7660	0.00036

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: 8/29/06

7-11  
InstronTek, Inc.  
5908 Triangle Dr  
Raleigh, NC 27617  
(919) 875-8371 Fax (919) 875-8328

11  
Date: 8/29/2006  
Test Number: 8

RAYMOND SANDBERG  
UNDERWOOD ENGINEERING TESTING CO.,INC.  
3 SOUTH BLACKHORSE PIKE  
MT EPHRAIM, NJ 08059-1303

Phone: (856) 933 - 1818  
FAX: (856) 931 - 7124

## LEAK TEST CERTIFICATE

NC Materials License #

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: 32414

Leak Test Date: 8/23/2006

<u>Source</u>	<u>Reading in microCuries</u>
47-28624	0.00000
750-7720	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: J. Williams

Date: 8-29-06

# 12

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

Date: 10/18/2006  
Test Number: 6

**RAYMOND SANDBERG**  
**UNDERWOOD ENGINEERING TESTING CO.,INC.**  
**3 SOUTH BLACKHORSE PIKE**  
**MT EPHRAIM, NJ 08059-1303**

**Phone: (856 )933 -1818**  
**FAX: (856 )931 -7124**

## **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: 33272                      Leak Test Date: 9/22/2006

<u>Source</u>	<u>Reading in microCuries</u>
57-4566	0.00000
750-8651	0.00034

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

Reviewed by: *f. Williams*                      Date: 10-18-06

T-13

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

Date: 2/19/2007  
Test Number: 6

**RAYMOND SANDBERG**  
**UNDERWOOD ENGINEERING TESTING CO.,INC.**  
3 SOUTH BLACKHORSE PIKE  
MT EPHRAIM, NJ 08059-1303

**Phone: (856) 933-1818**  
**FAX: (856) 931-7124**

## LEAK TEST CERTIFICATE

NC Materials License # 092-1073-1

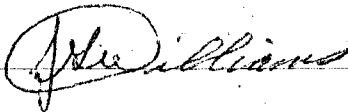
This certifies that leak test analysis was conducted on the sample with the following information. The results shown below accurately represent the level of removable contamination.

Gauge model: 3411                      Gauge S/N: 12659                      Leak Test Date: 2/14/2007

<u>Source</u>	<u>Reading in microCuries</u>
47-7966	0.00000
50-1025	0.00034

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:

2-19-07

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

Date: 3/22/2007  
Test Number: 5

**RAYMOND SANDBERG**  
**UNDERWOOD ENGINEERING TESTING CO.,INC.**  
3 SOUTH BLACKHORSE PIKE  
MT EPHRAIM, NJ 08059-1303

Phone: (856 )933 -1818  
FAX: (856 )931 -7124

## LEAK TEST CERTIFICATE

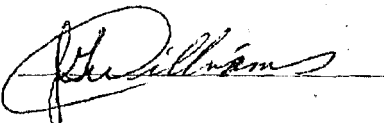
NC Materials License # 092-1073-1

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: 12659                      Leak Test Date: 3/22/2006

Source	Reading in microCuries
47-7966	0.00000
50-1025	0.00037

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: 3-22-07

T-14

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

Date: 2/19/2007  
Test Number: 7

RAYMOND SANDBERG  
UNDERWOOD ENGINEERING TESTING CO.,INC.  
3 SOUTH BLACKHORSE PIKE  
MT EPHRAIM, NJ 08059-1303

Phone: (856 )933 -1818  
FAX: (856 )931 -7124

## 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

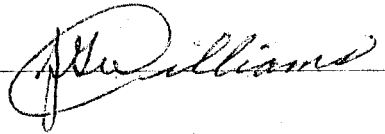
Gauge S/N: 18554

Leak Test Date: 2/14/2007

Source	Reading in microCuries
47-1401	0.00000
50-8104	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:

2-19-07



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

Date: 3/22/2007  
Test Number: 6

**RAYMOND SANDBERG**  
**UNDERWOOD ENGINEERING TESTING CO.,INC.**  
3 SOUTH BLACKHORSE PIKE  
MT EPHRAIM, NJ 08059-1303

Phone: (856 )933 -1818  
FAX: (856 )931 -7124

## LEAK TEST CERTIFICATE

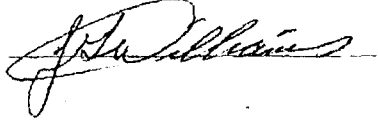
NC Materials License # 092-1073-1

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: 18554                      Leak Test Date: 3/22/2006

Source	Reading in microCuries
47-1401	0.00001
50-8104	0.00039

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: 3-22-07

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

Date: 10/18/2005  
Test Number: 4

**PATTY BEMESDERFER**  
**UNDERWOOD ENGINEERING TESTING CO.,INC.**  
3 SOUTH BLACKHORSE PIKE  
MT EPHRAIM, NJ 08059-1303

**Phone: (856 )933 - 1818**  
**FAX: (856 )931 - 7124**

## 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: 12126                      Leak Test Date: 10/5/2005

Source	Reading in microCuries
47-7468	0.000000
40-9623	0.000218

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

Reviewed by: Johnny Williams                      Date: 10-18-05

15

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

Date: 2/19/2007  
Test Number: 6

**RAYMOND SANDBERG**  
**UNDERWOOD ENGINEERING TESTING CO.,INC.**  
3 SOUTH BLACKHORSE PIKE  
MT EPHRAIM, NJ 08059-1303

Phone: (856) 933-1818  
FAX: (856) 934-7124

## 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

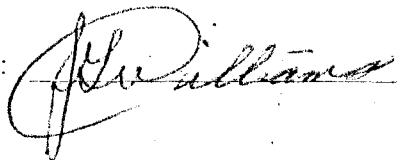
Gauge S/N: 12126

Leak Test Date: 2/14/2007

Source	Reading in microCuries
47-7468	0.00000
40-9623	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:

2-19-07



Troxler Electronic Laboratories, Inc.

T-16

3008 Cornwallis Rd., P.O. Box 12057  
Research Triangle Park, NC 27709  
Tel: (877) 876-9537 Fax: (919) 485-2250

License: NC 032-0182-1

LEAK TEST CERTIFICATE

DEVICE:

Model: 4640 Serial No: 1387

SEALED SOURCES:

SERIAL NO.	MEASURE DATE	NUCLIDE	ACTIVITY	
			(GBq)	(mCi)
75-5028	02/10/1994	CS-137	0.296	8

LEAK TEST ANALYSIS:

Sample collected on: 06/24/2005

Sample analyzed on: 06/24/2005 at 9:04:00 AM

Analyzed by: HARRY PENDLETON

	ALPHA	BETA-GAMMA
Conversion factor (cpm/Bq)	1.28E+01	2.10E+01
Background measurement (cpm)	1	25
Sample measurement (cpm)	0	25
Activity (Bq)	< MDA	< MDA
Min. Detectable Activity (Bq)	4.7E-01	1.2E+00

This certifies that the above leak test results are:

Less than 185 Bq (0.005 uCi)

Greater than 185 Bq (0.005 uCi)

If greater than 185 Bq (0.005 uCi):

Person Notified \_\_\_\_\_ Date \_\_\_\_\_

Phone \_\_\_\_\_ and/or Fax \_\_\_\_\_

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

Date: 3/22/2007  
Test Number: 1

**RAYMOND SANDBERG**  
**UNDERWOOD ENGINEERING TESTING CO.,INC.**  
3 SOUTH BLACKHORSE PIKE  
MT EPHRAIM, NJ 08059-1303

Phone: (856 )933 -1818  
FAX: (856 )931 -7124

## LEAK TEST CERTIFICATE

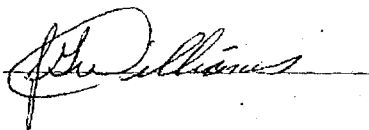
NC Materials License # 092-1073-1

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: 4640                      Gauge S/N: 1387                      Leak Test Date: 3/13/2007

Source	Reading in microCuries
N/A	0.00000
75-5028	0.00029

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: 3-22-07