



**EMSI ENGINEERING INC.**

9720 Capital Court, suite 400, Manassas, Virginia 20110 • (703) 257-0877 • Fax (703) 361-3798

Date: August 22, 2007

*NMSS*

The Licensing Assistance Section  
Region I  
475 Allendale Road  
King of Prussia, Pennsylvania 19406-1415

*03031412*

Subject: **License No.: 45-25079-01**

**Mail Control Number: 140945**

Dear sir/madam

In reference to our previous fax dated August 16, 2007 with the above control Number of change of address request, following are the serial numbers of the six Troxler 3440 gauges that we have:

30758  
23892  
21940  
18506  
34146  
22154

Please find attached a copy of the latest leak test results for the above gauges.

If you have any questions or need any supporting documents regarding the above subject, please don't hesitate to call me.

Sincerely,  
EMSI Engineering Inc.

A handwritten signature in black ink, appearing to read "Talal A. Hassan", is written over a horizontal line.

Talal A. Hassan, Ph.D., P.E.  
President

Attachments

- Six leak test results.

*140945*

**Troxler Electronic Laboratories, Inc.**

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

ESSAM ELMESSIRY  
EMSI ENGINEERING, INC.  
6997 GATEWAY COURT  
MANASSAS, VA 20109

**LEAK TEST CERTIFICATE****DEVICE:**

Model: 3440

Serial No: 30758

**SEALED SOURCES:**

Serial No.	Measure Date	Nuclide	GBq	mCi
750-5326	07/16/1999	CS-137	0.296	8
47-1975	11/01/1978	AM-241:BE	1.48	40

**LEAK TEST ANALYSIS:**

Sample collected on: 06/21/2007

Sample analyzed on: 06/26/2007 at 11:22:00 AM

Analyzed by: HARRY P. PENDLETON, JR.

	ALPHA	BETA-GAMMA
Conversion factor (cpm/Bq)	1.29E+01	2.02E+01
Background measurement (cpm)	1	25
Sample measurement (cpm)	0	15
Activity (Bq)	< MDA	< MDA
Min. Detectable Activity (Bq)	5.1E-01	1.3E+00

This certifies that the leak test results are:



Less than 185 Bq (0.005 uCi)



Greater than 185 Bq (0.005 uCi)



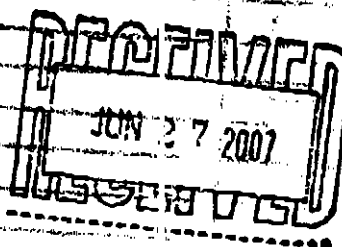
## Troxler Electronic Laboratories, Inc.

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T. HASSOREN  
 EMSI ENGINEERING, INC.  
 6997 GATEWAY COURT  
 MANASSAS, VA 22109

## LEAK TEST CERTIFICATE

**DEVICE:**

Model: 3440

Serial No: 23892

**SEALED SOURCES:**

Serial No.	Measure Date	Nuclide	GBq	mCi
75-5860	07/13/1994	CS-137	0.296	8
47-19908	07/05/1994	AM-241:BE	1.48	40

**LEAK TEST ANALYSIS:**

Sample collected on: 06/20/2007

Sample analyzed on: 06/25/2007 at 12:52:00 PM

Analyzed by: HARRY P. PENDLETON, JR.

	ALPHA	BETA-GAMMA
Conversion factor (cpm/Bq)	1.29E+01	2.02E+01
Background measurement (cpm)	1	25
Sample measurement (cpm)	0	22
Activity (Bq)	< MDA	< MDA
Min. Detectable Activity (Bq)	5.1E-01	1.3E+00

This certifies that the leak test results are:

☒ Less than 185 Bq (0.005 uCi)☐ Greater than 185 Bq (0.005 uCi)

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TAYSEER HASSANEIH  
 EMSI ENGINEERING, INC.  
 6997 GATEWAY COURT  
 MANASSAS, VA 20109

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**LEAK TEST CERTIFICATE**


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**DEVICE:**

Model: 3440

Serial No: 21940

**SEALED SOURCES:**

Serial No.	Measure Date	Nuclide	GBq	mCi
47-17276	10/13/1992	AM-241:BE	1.48	40
75-3529	01/27/1993	CS-137	0.296	8

**LEAK TEST ANALYSIS:**

Sample collected on: 04/12/2007

Sample analyzed on: 04/24/2007 at 11:33:00 AM

Analyzed by: HARRY P. PENDLETON, JR.

	ALPHA	BETA-GAMMA
Conversion factor (cpm/Bq)	1.29E+01	2.02E+01
Background measurement (cpm)	1	25
Sample measurement (cpm)	0	30
Activity (Bq)	< MDA	< MDA
Min. Detectable Activity (Bq)	5.1E-01	1.3E+00

This certifies that the leak test results are:

☒ Less than 185 Bq (0.005 uCi)☐ Greater than 185 Bq (0.005 uCi)



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**LEAK TEST CERTIFICATE**

**DEVICE:**

Model: 9440

Serial No: 18506

**SEALED SOURCES:**

SERIAL NO.	MEASURE DATE	NUCLIDE	ACTIVITY	
			(GBq)	(mCi)
50-8058	2/16/1990	CS-137	0.296	3
47-13962	2/21/1990	AM-241:BE	1.48	40

**LEAK TEST ANALYSIS:**

Sample collected on: 04/08/2007

Sample analyzed on: 04/17/2007 at 11:07:00 AM

Analyzed by: HARRY P. PENDLETON, JR.

	ALPHA	BETA-GAMMA
Conversion factor (cpm/Bq)	1.29E+01	2.02E+01
Background measurement (cpm)	1	25
Sample measurement (cpm)	0	23
Activity (Bq)	< MDA	< MDA
Min. Detectable Activity (Bq)	5.1E-01	1.3E+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 \_\_\_\_\_



**Troxler Electronic Laboratories, Inc.**

3308 Cornwallis Rd., P.O. Box 12057

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SUITE 400  
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### LEAK TEST CERTIFICATE

**DEVICE:**

Model: 3440

Serial No: 34146

**SEALED SOURCES:**

Serial No.	Measure Date	Nuclide	GBq	mCi
77-1227	04/08/2003	CS-137	0.296	8
47-30086	11/30/2001	AM-241:BE	1.48	40

**LEAK TEST ANALYSIS:**

Sample collected on: 07/20/2007

Sample analyzed on: 08/20/2007 at 10:29:00 AM

Analyzed by: HARRY P. PENDLETON, JR

	ALPHA	BETA-GAMMA
Conversion factor (cpm/Bq)	1.30E+01	2.03E+01
Background measurement (cpm)	0	22
Sample measurement (cpm)	0	27
Activity (Bq)	< MDA	< MDA
Min. Detectable Activity (Bq)	4.4E-01	1.2E+00

This certifies that the leak test results are:

☒ Less than 185 Bq (0.005 uCi)

☐ Greater than 185 Bq (0.005 uCi)

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**LEAK TEST CERTIFICATE****DEVICE:**

Model: 3440

Serial No: 22154

**SEALED SOURCES:**

Serial No.	Measure Date	Nuclide	GBq	mCi
75-3776	03/11/1993	CS-137	0.296	8
47-17514	12/03/1992	AM-241:BE	1.48	40

**LEAK TEST ANALYSIS:**

Sample collected on: 07/20/2007

Sample analyzed on: 08/20/2007 at 10:31:00 AM

Analyzed by: HARRY P. PENDLETON, JR.

	ALPHA	BETA-GAMMA
Conversion factor (cpm/Bq)	1.30E+01	2.03E+01
Background measurement (cpm)	0	22
Sample measurement (cpm)	0	23
Activity (Bq)	< MDA	< MDA
Min. Detectable Activity (Bq)	4.4E-01	1.2E+00

This certifies that the leak test results are:

☒ Less than 185 Bq (0.005 uCi)☐ Greater than 185 Bq (0.005 uCi)