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 duffnet.com

August 2, 2013

Nuclear Regulatory Commission, Region I  
 2100 Renaissance Boulevard, Suite 100  
 King Of Prussia, PA 19406-2713

REG-10818-13-0001

RE: Mail Control No. 580-485  
 Amendment Request to  
 NRC License No. 07-17431-01  
 Amendment No. 19  
 Duffield Associates, Inc.  
 Wilmington, Delaware  
 (Docket No. 030-12739)

To Whom It May Concern:

Duffield Associates, Inc. has prepared this correspondence to request an amendment to our NRC materials license (referenced above) to include the following addition to license Item No. 9 to facilitate storage and use of a Troxler Model 4640B thin-layer density gauge by Duffield Associates, Inc. within the NRC jurisdiction:


- Authorized use: A. and B. In Troxler Electronic Laboratories Model 3400 Series, 3411B and 4640B portable gauging devices for measuring physical properties of materials.

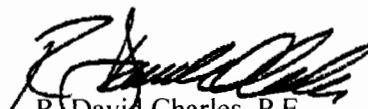
We have enclosed the IAEA Certificate of Competent Authority for the gauge (Troxler 4640B thin-layer gauge, serial number 2324, with a single  $8 \pm 1$  microCuries Cesium-137 source having Serial No. 750-6415) to provide information for the revision of license Item No. 6.A. We wish to have the capability of transferring the gauge from our Pennsylvania facilities (license No. 1070) to our facilities in Delaware, and for use at temporary job sites within the NRC jurisdiction.

Please contact us if you require additional information.

Very truly yours,

DUFFIELD ASSOCIATES, INC.

  
 Michael S. Johnson  
 Radiation Safety Officer

  
 R. David Charles, P.E.  
 Executive Vice President

MSJ/RDC:jst  
 WORD\IGB.0813-LICENSE AMENDMENT.COR

Enclosure: IAEA Certificate for Troxler Model 4640B with Single Cesium-137 Source

581540  
 NMSS/RGNI MATERIALS-002



U.S. Department  
of Transportation  
Pipeline and  
Hazardous Materials  
Safety Administration

IAEA CERTIFICATE OF COMPETENT AUTHORITY  
SPECIAL FORM RADIOACTIVE MATERIALS  
CERTIFICATE USA/0614/S-96, REVISION 3

East Building, PHH-23  
1200 New Jersey Avenue Southeast  
Washington, D.C. 20590

This certifies that the source described has been demonstrated to meet the regulatory requirements for special form radioactive material as prescribed in the regulations of the International Atomic Energy Agency<sup>1</sup> and the United States of America<sup>2</sup> for the transport of radioactive material.

1. Source Identification - QSA Global, Inc. Model X.1218 (Manufactured on or after January 17, 1991).
2. Source Description - Cylindrical single encapsulation constructed of stainless steel and tungsten inert gas or laser seal welded. Ceramic fiber packing is included within the encapsulation to localize the active source material. Approximate outer dimensions are 6.05 mm (0.24 in.) in diameter and 10.2 mm (0.40 in.) in length. Construction shall be in accordance with attached AEA Technology QSA, Inc. Drawing No. RBA62269, Rev. A.
3. Radioactive Contents - No more than 555 MBq (15 mCi) of Cesium-137 in a glass matrix.
4. Quality Assurance - Records of Quality Assurance activities required by Paragraph 310 of the IAEA regulations<sup>1</sup> shall be maintained and made available to the authorized officials for at least three years after the last shipment authorized by this certificate. Consignors in the United States exporting shipments under this certificate shall satisfy the applicable requirements of Subpart H of 10 CFR 71.
5. Expiration Date - This certificate expires on July 31, 2017.

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<sup>1</sup> "Regulations for the Safe Transport of Radioactive Material, 1996 Edition (Revised), No. TS-R-1 (ST-1, Revised)," published by the International Atomic Energy Agency (IAEA), Vienna, Austria.

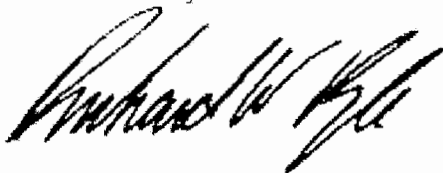
<sup>2</sup> Title 49, Code of Federal Regulations, Parts 100-199, United States of America.

( - 2 - )

**CERTIFICATE USA/0614/S-96, REVISION 3**

This certificate is issued in accordance with paragraph 804 of the IAEA Regulations and Section 173.476 of Title 49 of the Code of Federal Regulations, in response to the July 06, 2012 petition by QSA Global, Inc., Burlington, MA, and in consideration of other information on file in this Office.

Certified By:



Dr. Magdy El-Sibaie

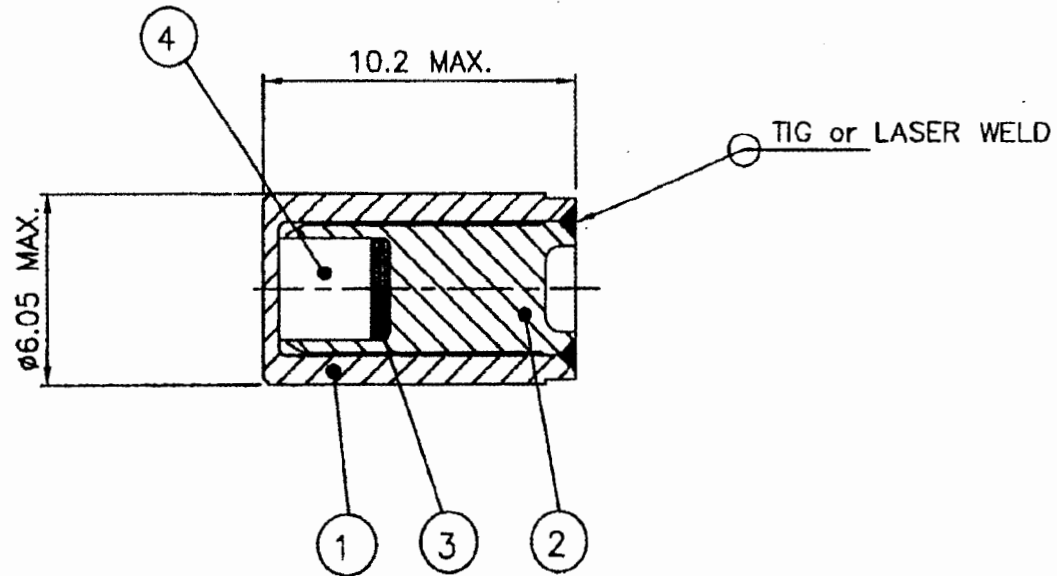
Associate Administrator for Hazardous Materials Safety




**Jul 10 2012**

(DATE)

Revision 3 - Issued to extend the expiration date.

Item	Description	Material	QTY
1	BODY	STAIN.STL	1
2	LID	STAIN.STL	1
3	PACKING	CERAMIC FIBER	A/R
4	ACTIVE MATERIAL		A/R



APPROVALS		 40 NORTH AVE, BURLINGTON, MA 01803	DESCRIPTIVE DRAWING
<i>[Signature]</i> 17 10/02 17 5/01 02	<i>[Signature]</i> 17 Sep 02		
DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE STATED TOLERANCES:		SIZE <b>A</b>	DWG. NO. <b>RBA62269</b>
X ±0.5 XX ±0.1 XXX ±0.05 ANGULAR ±5°	INTERNAL  EXTERNAL 	SCALE: <b>N/A</b>	SHEET <b>1</b> OF <b>1</b>



U.S. Department  
of Transportation

East Building, PHH-23  
1200 New Jersey Avenue SE  
Washington, D.C. 20590

Pipeline and  
Hazardous Materials  
Safety Administration

**CERTIFICATE NUMBER:** USA/0614/S-96, Revision 3

**ORIGINAL REGISTRANT(S):**

Ms. Lori Podolak  
Product Licensing Specialist  
QSA Global, Inc.  
40 North Avenue  
Burlington, MA 01803

Ms. Cathleen Roughan  
Director, Regulatory Affairs and QA  
QSA Global, Inc.  
40 North Avenue  
Burlington, MA 01803

Mr. Michael Fuller  
Regulatory Compliance Associate  
QSA Global, Inc.  
40 North Avenue  
Burlington, MA 01803

**REGISTERED USER(S):**

Mr. Steve Browne  
Manager, Radiation Safety  
Troxler Electronic Laboratories  
P.O. Box 12057  
3008 Cornwallis Road  
Research Triangle Park, 27709  
USA

Mr. Damian Rose  
Assistant Radiation Safety Officer  
Troxler Electronic Laboratories  
P.O. Box 12057  
3008 Cornwallis Road  
Research Triangle Park, 27709  
USA

This is to acknowledge the receipt of your letter application dated

08/02/2013, and to inform you that the initial processing which includes an administrative review has been performed.

07-17431-01 (Amendment)

There were no administrative omissions. Your application was assigned to a technical reviewer. Please note that the technical review may identify additional omissions or require additional information.

Please provide to this office within 30 days of your receipt of this card

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A copy of your action has been forwarded to our License Fee & Accounts Receivable Branch, who will contact you separately if there is a fee issue involved.

Your action has been assigned **Mail Control Number** 581540.  
When calling to inquire about this action, please refer to this control number.  
You may call us on (610) 337-5398, or 337-5260.

NRC FORM 532 (RI)  
(6-96)

Sincerely,  
Licensing Assistance Team Leader