U.S. Department
of Transportation

**Pipeline and
Hazardous Materials
Safety Administration**

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

IAEA CERTIFICATE OF COMPETENT AUTHORITY
SPECIAL FORM RADIOACTIVE MATERIALS
CERTIFICATE USA/0690/S-96, REVISION 2

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[1] and the United States of America[2] for the transport of radioactive material.

1. Source Identification - QSA Global, Inc. Model X2110 Inner Capsule (Manufactured on or after October 29, 1981).

2. Source Description - Cylindrical single encapsulation made of stainless steel and tungsten inert gas or laser seal welded. Approximate exterior dimensions are 25.1 mm (0.99 in.) in diameter and 49.5 mm (1.95 in.) in length. Minimum wall thickness is 1.2 mm (0.05 in.). Construction shall be in accordance with attached QSA Global, Inc. Drawing No. RBA61984-1, Rev. B.

3. Radioactive Contents - No more than 555.0 GBq (15.0 Ci) of Americium-241. The Am-241 is in the form of an oxide and is mixed with a beryllium powder that is then pressed into a solid pellet.

4. Quality Assurance - Records of Quality Assurance activities required by Paragraph 310 of the IAEA regulations[1] 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 September 30, 2014.

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[1] "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.

[2] Title 49, Code of Federal Regulations, Parts 100-199, United States of America.

CERTIFICATE USA/0690/S-96, REVISION 2

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 September 09, 2009 petition by QSA Global, Inc., Burlington, MA, and in consideration of other information on file in this Office.

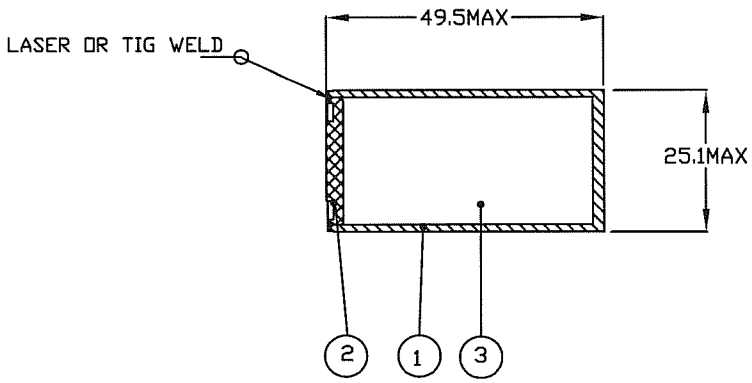
Certified By:

Sep 11 2009

Robert A. Richard (DATE)
Deputy Associate Administrator for Hazardous Materials Safety

Revision 2 - Issued to extend the expiration date.

Item No	Description	No off
1	CELL BODY STAIN.STL.	1
2	CELL LID STAIN.STL.	1
3	ACTIVE MATERIAL- AmBe	A/R



X2110 CELL ASSEMBLY

APPROVALS	
	6 Nov 07
	5 Nov 07

DIMENSIONS IN MILLIMETERES
UNLESS OTHERWISE STATED TOLERANCES:

X ±0.5
X.X ±0.1
X.XX ±0.05
ANGULAR ±5°

INTERNAL N7
EXTERNAL N6

QSA GLOBAL
40 NORTH AVE, BURLINGTON, MA 01803

DESCRIPTIVE DRAWING

TITLE X2110 CELL ASSEMBLY

SIZE A | DWG. NO. RBA61984-1 | REV B

SCALE: NONE | SHEET 1 OF 1

ERF # 1783

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CERTIFICATE NUMBER: USA/0690/S-96, Revision 2

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