



U.S. Department
of Transportation

Pipeline and
Hazardous Materials
Safety Administration

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

IAEA CERTIFICATE OF COMPETENT AUTHORITY
SPECIAL FORM RADIOACTIVE MATERIALS

CERTIFICATE USA/0845/S-96, REVISION 0

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 Agency¹ and the United States of America² for the transport of radioactive material.

1. Source Identification - QSA Global, Inc. Model No. X.1188 sources contained in QSA Global, Inc. Model No. 2105 sealed source Serial Number 60-7802 and Serial Number 60-7290.
2. Source Description - Model No. X.1188 is a cylindrical single encapsulation made of stainless steel and tungsten inert gas or laser seal welded. Approximate outer dimensions are 10.1 mm (0.40 in.) in diameter and 9.7 mm (0.38 in.) in length. Minimum wall thickness is 0.48 mm (0.02 in.). Construction shall be in accordance with attached AEA Technology QSA, Inc. Drawing No. RBA61869, Rev. A.
3. Radioactive Contents - No more than 74.0 GBq (2.0 Ci) of Americium-241. The Am-241 is in oxide form and mixed with beryllium and pressed into a solid pellet.
4. Special Conditions -
 - a. QSA Global Source X.2105 Serial No. 7290 shall be contained in Troxler Electronic Laboratories, Inc. nuclear gauge model number 2226, Serial Number 453. QSA Global Source Model X.2105 Serial No. 7802 shall be contained in a Troxler Electronic Laboratories, Inc nuclear gauge model number 3241B, serial number 410.

¹ "Regulations for the Safe Transport of Radioactive Material, 2012 Edition, No. SSR-6" 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/0845/S-96, REVISION 0

- b. QSA Global Model No. X.1188 special form source capsule(s) must have no known or suspected defects. Each source must be secured properly within the model X.2105 capsule and Troxler Electronic Laboratories gauge.
 - c. The sealed source capsule(s) must have a current satisfactory leak test in accordance with U.S. Nuclear Regulatory Commission conditions.
 - d. All gauges shipped under this certificate shall be inspected prior to shipment and checked for contamination by performing surface wipe tests in accordance with 49 CFR 173.443 and Troxler leak test instructions.
 - e. Persons offering shipments under this certificate must obtain authorization from Troxler Electronic Laboratories prior to each shipment. Consignors should obtain and follow the Troxler Transportation Guide.
 - f. This certificate authorizes a one-time transportation to Troxler Electronic Laboratories in Research Triangle Park, North Carolina, USA for source disposal purposes only.
5. Management System Activities - Records of Management System activities required by Paragraph 306 of the IAEA regulations 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 requirements of Subpart H of 10 CFR 71.
 6. Expiration Date - This certificate expires on June 6, 2023. Previous editions which have not reached their expiration date may continue to be used.

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This certificate is issued in accordance with paragraph(s) 804 of the IAEA Regulations and Section 173.476 of Title 49 of the Code of Federal Regulations, in response to the November 22, 2022 petition by Troxler Electronic Laboratories, Research Triangle Park, NC, and in consideration of other information on file in this Office.

Certified By:



December 14, 2022

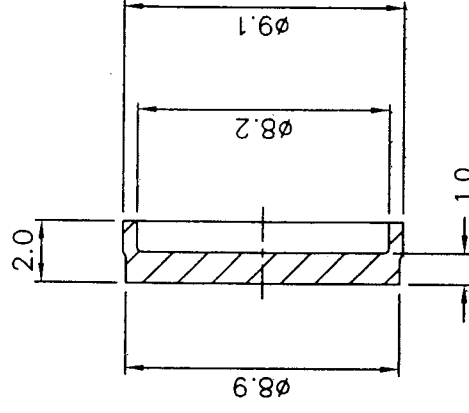
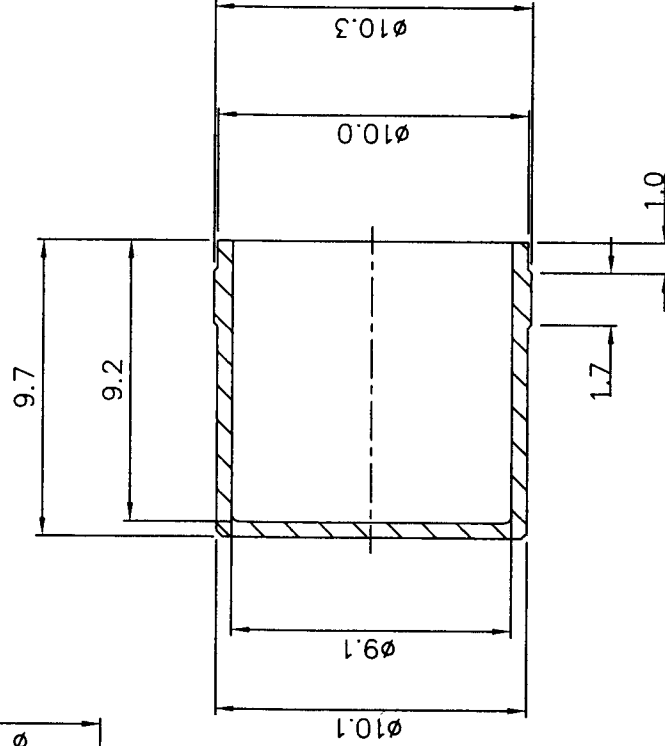
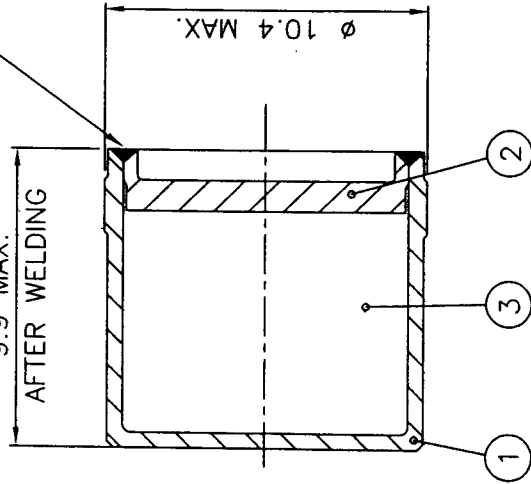
(DATE)

 William Schoonover
Associate Administrator for Hazardous
Materials Safety


Revision 0 - New issue which authorizes one time transport for disposal.

TIG OR LASER WELD TO SEAL

9.9 MAX.



ITEM No.	DESCRIPTION	QTY.
1	CELL BODY STAIN.STL.	1
2	CELL LID STAIN.STL.	1
3	ACTIVE MATERIAL	AR

 <p>40 NORTH AVE., BURLINGTON, MA 01803</p>		<p>DESCRIPTIVE DRAWING</p>	
<p>APPROVALS</p>		<p>TITLE X1188 CAPSULE ASSEMBLY</p>	
<p>17JAN03</p>		<p>SIZE A</p>	
<p>17JAN03</p>		<p>DWG. NO. RBA61869</p>	
<p>DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE STATED TOLERANCES:</p>		<p>SCALE: NONE</p>	
<p>X ±0.5</p>		<p>SHEET 1 OF 1</p>	
<p>XX ±0.1</p>		<p>REV A</p>	
<p>XXX ±0.05</p>			
<p>ANGULAR ±5°</p>			
<p>INTERNAL $\frac{M}{N}$</p>			
<p>EXTERNAL $\frac{M}{N}$</p>			

ERF # 431



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ORIGINAL REGISTRANT(S) :