



U.S. Department
of Transportation

IAEA CERTIFICATE OF COMPETENT AUTHORITY
SPECIAL FORM RADIOACTIVE MATERIALS
CERTIFICATE USA/0335/S-96, REVISION 9

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

**Pipeline and
Hazardous Materials
Safety Administration**

This certifies that the sources described have been demonstrated to meet the regulatory requirements for special form radioactive material as prescribed in the regulations of the International Atomic Energy Agency¹ and United States of America² for the transport of radioactive material.

1. Source Identification - QSA Global, Inc. Model 875 Series.
2. Source Description - Cylindrical single or double encapsulations with the outer capsule made of Type 304L stainless steel and tungsten inert gas or laser welded. Approximate outer dimensions are 6.35 mm (0.25 in.) in diameter and either 19.05 mm (0.75 in.) or 24.2 mm (0.954 in.) in length. Inner capsules, when present, are made of stainless steel or titanium. Construction of the outer capsule shall be in accordance with attached QSA Global, Inc. Drawing No. R875 OUTER, Rev. C. Construction of any inner capsule shall be in accordance with attached QSA Global, Inc. Drawing No. R875 INNER, Rev. C or QSA Global, Inc. Drawing No. R87527-40, Rev. A.
3. Radioactive Contents - No more than either 14.8 TBq (400 Ci) of Iridium-192 as a solid metal; 8.14 TBq (220 Ci) of Cobalt-60 as a solid metal; 5.56 TBq (150 Ci) of Selenium-75 as an encapsulated solid metal; 1.11 TBq (30 Ci) of Cesium-137 as encapsulated CsCl₂; 1.85 TBq (50 Ci) of Thulium-170 as Tm₂O₃; or 7.4 TBq (200 Ci) of Ytterbium-169 as Yb₂O₃.
4. Quality Assurance - Records of Quality Assurance activities required by Paragraph 310 of the IAEA regulations¹ 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.
5. Expiration Date - This certificate expires on August 31, 2012. On June 30, 2009, this certificate supersedes all previous revisions of USA/0335/S-96.

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.

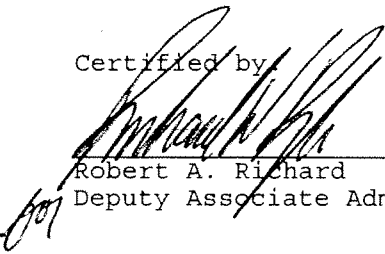
² Title 49, Code of Federal Regulations, Parts 100 - 199, United States of America.

CERTIFICATE USA/0335/S-96, REVISION 9

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 April 7, 2009 petition by QSA Global, Inc., Burlington, MA and in consideration of other information on file in this Office.

Certified by:

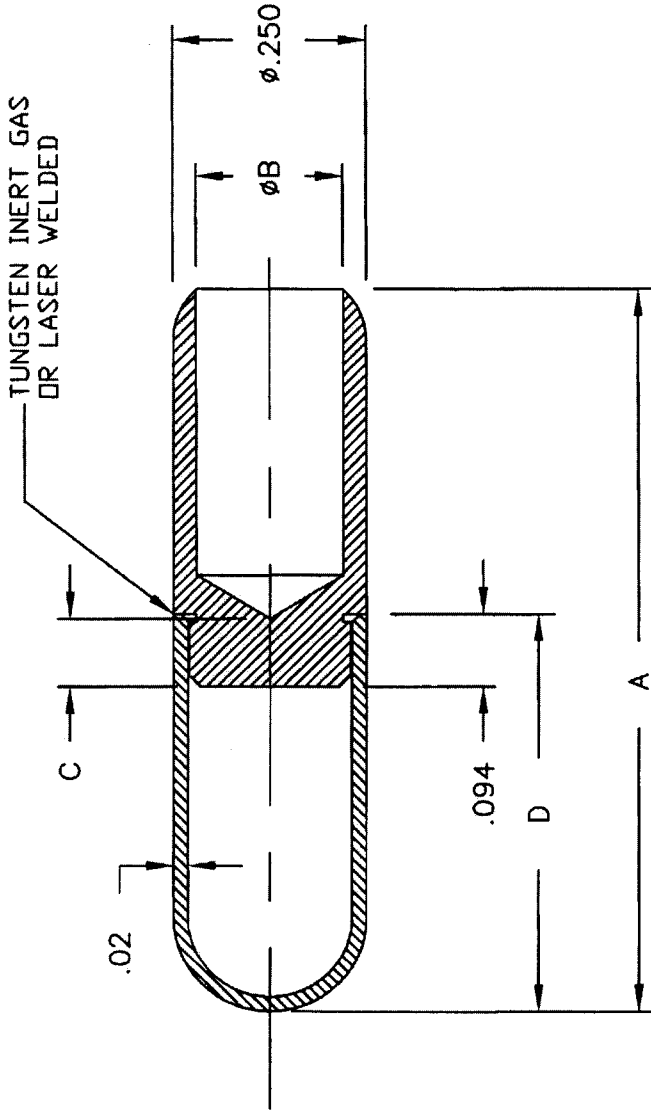
APR - 7 2009



(DATE)

Robert A. Richard
Deputy Associate Administrator for Hazardous Materials Safety


Revision 9 - Issued to increase the allowed Iridium-192 activity.



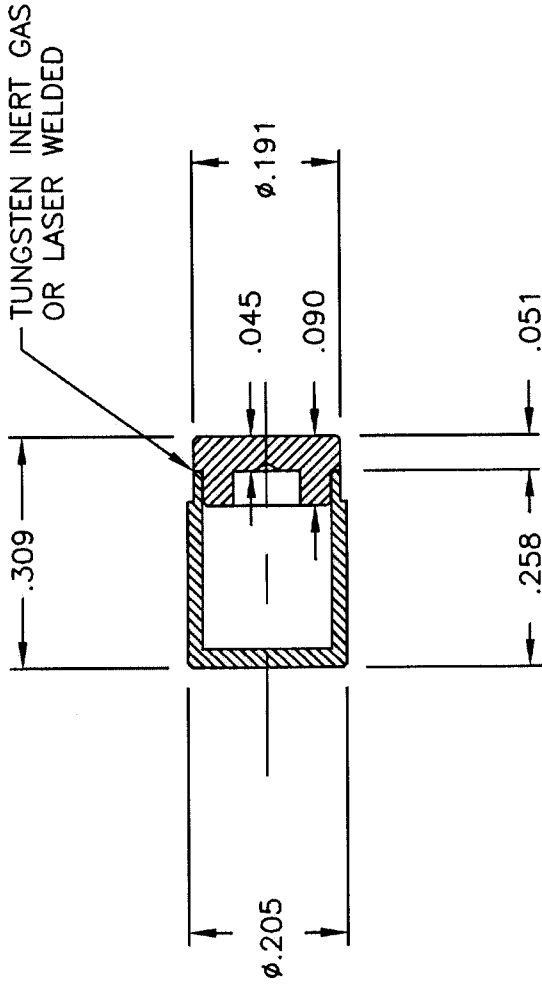
CAPSULE NO.	A	ϕB	C	D
87501	.954	.190	.150	.522
88702	.750	.190	.118	.522

NOTES:

- INTERNAL VOID TO BE 0.010 mL OR GREATER.
- MATERIAL: 304L STAINLESS STEEL.

APPROVALS	DATE	 40 NORTH AVE. BURLINGTON, MA 01803	DESCRIPTIVE DRAWING
<i>[Signature]</i>	7-27-07		
	24 June 07	TITLE 875 SERIES SDDR OUTER CAPSULE	
UNLESS OTHERWISE SPECIFIED DIMENSIONS IN INCHES		SIZE	REV
TOLERANCES:		A	C
FRACTIONS $\pm 1/8$		DWG. NO.	R875 OUTER
X.X ± 0.12		SCALE:	NONE
X.XX ± 0.06		SHEET	1 OF 1
X.XXX ± 0.020			

ERF # 1739



NOTES:

1. MATERIAL: 304L STAINLESS STEEL.
2. INTERNAL VOID VOLUME TO BE 0.010 mL OR GREATER.
3. INNER CAVITY DIMENSIONS MAY VARY. METALLIC SPACERS, SPRINGS AND GUARDS WHICH SECURE AND/OR LOCATE THE RADIOACTIVE MATERIAL WITHIN THE CAPSULE MAY BE USED.
4. MINIMUM WALL THICKNESS TO BE 0.019.

APPROVALS	DATE
<i>[Signature]</i>	25 Jun 07
<i>[Signature]</i>	25 Jun 07

UNLESS OTHERWISE SPECIFIED
DIMENSIONS IN INCHES
TOLERANCES:
FRACTIONS \pm 1/8
XX \pm 0.12
X.XX \pm 0.06
X.XXX \pm 0.020



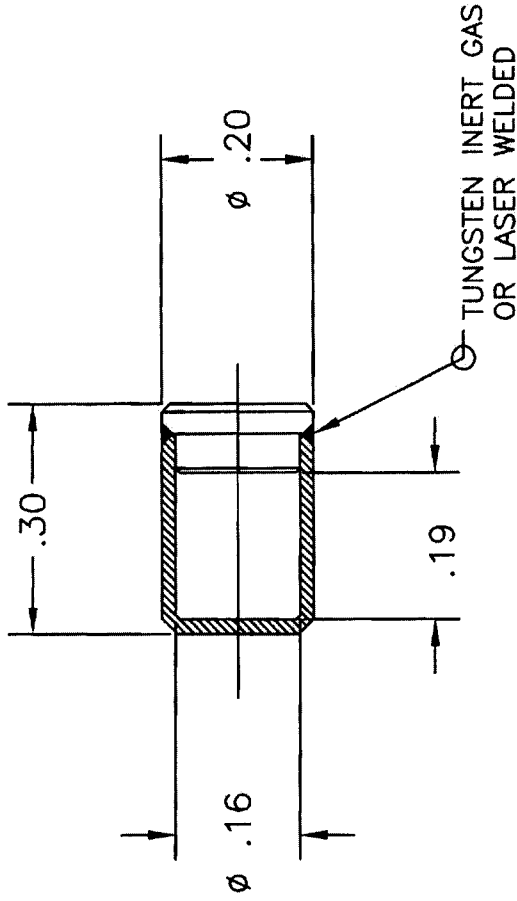
40 NORTH AVE. BURLINGTON, MA 01803

DESCRIPTIVE
DRAWING

TITLE 875 SERIES INNER CAPSULE

SIZE	DWG. NO.	REV
A	R875 INNER	C
SCALE:	NONE	SHEET 1 OF 1

ERF # 1739



NOTES:

1. MATERIAL: 316L STAINLESS STEEL OR EQUIVALENT, OPTIONAL MATERIAL: COMMERCIALLY PURE TITANIUM, GRADE 4.
2. INNER CAVITY DIMENSIONS MAY VARY. METALLIC SPACERS, SPRINGS AND GAURDS WHICH SECURE AND/OR LOCATE THE RADIOACTIVE MATERIAL WITHIN THE CAPSULE MAY BE USED.
3. MINIMUM WALL THICKNESS TO BE 0.009.

APPROVALS	DATE
<i>[Signature]</i>	7-27-07
<i>[Signature]</i>	24 June 07

UNLESS OTHERWISE SPECIFIED
DIMENSIONS IN INCHES
TOLERANCES:
FRACTIONS $\pm 1/8$
XX ± 0.12
XXX ± 0.06
X.XXX ± 0.020

QSA GLOBAL
40 NORTH AVE, BURLINGTON, MA 01803

DESCRIPTIVE
DRAWING

TITLE X540N CAPSULE ASSEMBLY

SIZE	DWG. NO.	REV
A	R87527-40	A
	SCALE: NONE	SHEET 1 OF 1

ERF # 1739



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

CERTIFICATE NUMBER: USA/0335/S-96, Revision 9

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. R.D. Donny Dicharry
President
Source Production and Equipment Company
113 Teal Street
St. Rose, 70087-9691
USA

Jerry Tucker
Industrial Nuclear Company, Inc.
14320 Wicks Blvd
San Leandro, 94577
USA

Bill Huddleston
Industrial Nuclear Company, Inc.
14320 Wicks Blvd
San Leandro, 94577
USA

Kelly Richardt
Regulatory and Quality Manager
Source Production and Equipment Company
113 Teal St.
St. Rose, 70087
USA

Mr. Harold T. Holton
Radiation Safety Officer
AITEC USA Investments Inc.
8401 West Monroe Rd.
Houston, 77061
USA

Mr. Harold T. Holton
Radiation Safety Officer
AITEC USA
8401 West Monroe Road
Houston, 77061
USA

Mr. David Nezzar
Radiation Safety Officer
Integrated Quality Services
1236 W. Brokks Street
Ontario, CA 91762