



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

**IAEA CERTIFICATE OF COMPETENT AUTHORITY  
SPECIAL FORM RADIOACTIVE MATERIALS  
CERTIFICATE USA/0747/S-96, REVISION 2**

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

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 Agency<sup>1</sup> and the United States of America<sup>2</sup> for the transport of radioactive material.

1. Source Identification - Source Production & Equipment Company, Inc. Model M-Series Capsules.
2. Source Description - Cylindrical single encapsulations made of Type 304 stainless steel and plasma welded on one end and either solid or an end cap laser welded on the other end. A Type 301 or 304 stainless steel cable is laser welded to the solid end or end cap. Approximate outer dimensions of the capsules are 0.4 mm (0.02 in.) to 1.3 mm (0.05 in.) in diameter and 1.5 mm (0.06 in.) to 11.0 mm (0.43 in.) in length. Overall length, including cable, is 10 mm (0.39 in.) to 3000 mm (118.11 in.). Construction shall be in accordance with attached Source Production & Equipment Co. Inc. Drawing No. BM1904, Rev. 5.
3. Radioactive Contents - No more than either 1.11 TBq (30 Ci) of Selenium-75, 0.55 TBq (15 Ci) of Iridium-192, or 1.29 TBq (35 Ci) of Ytterbium-169. The Se-75 is in solid elementary form. The Ir-192 is in solid metallic form. The Yb-169 is in the form of a solid metal oxide or solid metal.
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 March 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.

**CERTIFICATE USA/0747/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 March 28, 2012 petition by Source Production and Equipment Company, St. Rose, LA, and in consideration of other information on file in this Office.

Certified By:



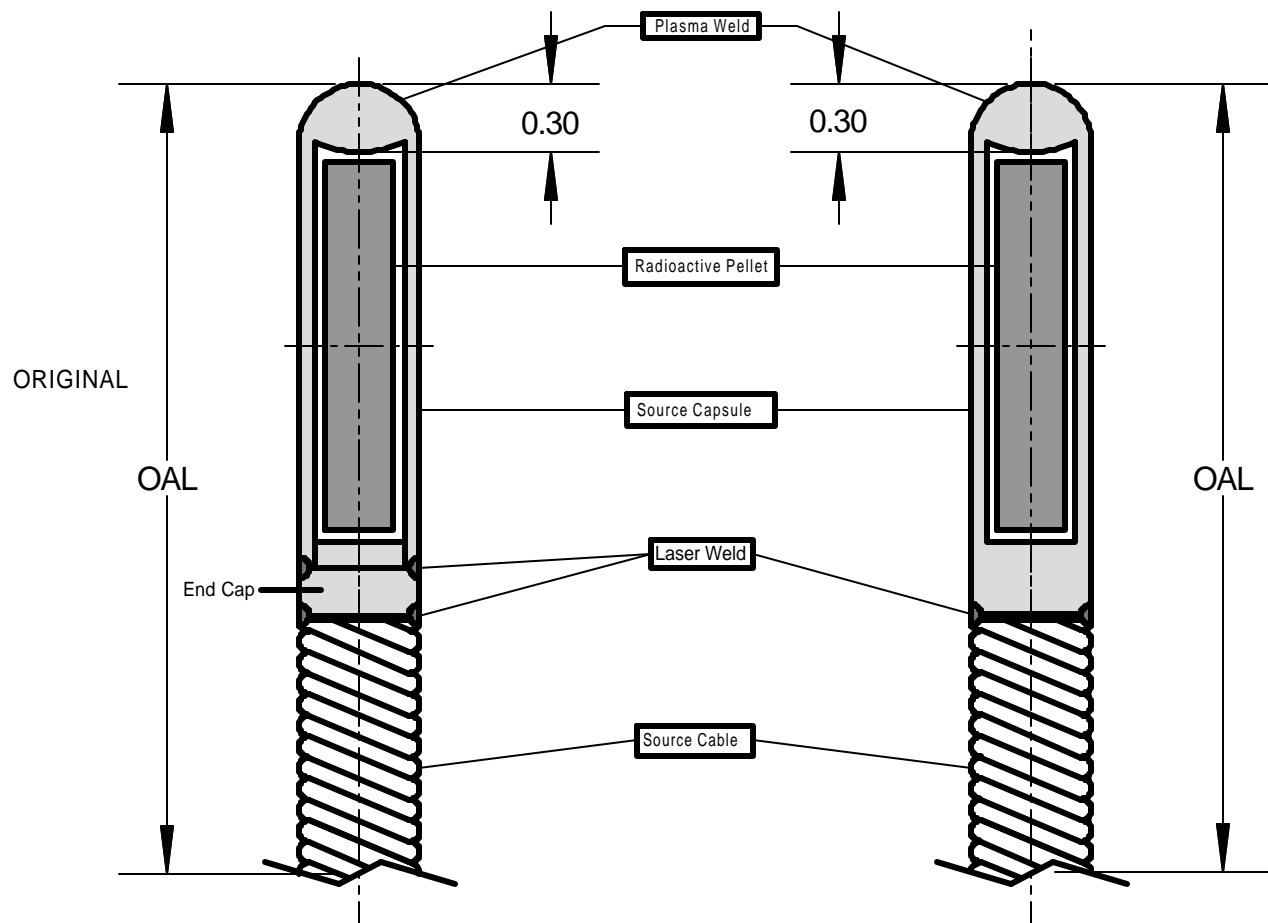
**Mar 30 2012**

(DATE)

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Dr. Magdy El-Sibaie  
Associate Administrator for Hazardous Materials Safety

Revision 2 - Issued to extend the expiration date.

CONTROLLED COPY NO			
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
(1)	INCORPORATED ECR#'s 080124-1.	1-24-08 1-25-08	KP KR
(2)	INCORPORATED ECR#'s 080201-3.	2-01-08 2-01-08	KP KR
(3)	INCORPORATED ECR#'s 080212-2.	2-22-08 2-25-08 2-25-08	KP GCM GCM
(4)	INCORPORATED ECR#'s 080310-1.	3-13-08 3-14-08	KP KR
(5)	INCORPORATED ECR#'s 080324-1.	4-04-08 4-08-08	KP KR



ALTERNATE

Dimension	Max	Min
Capsule Length	11.0	1.5
Capsule/End Cap Length	11.0	1.5
Pellet Length	10.1	0.4
Capsule Outside Diameter	1.3	0.4
Capsule Wall Thickness	0.3	0.1
Radioactive Pellet Diameter	1.1	0.2
OAL: Over All Length	3000	10

Component	EN-standard Steel no. k.h.s DIN	EN-standard Steel name	EN-standard Steel type	UNS
Capsule	1.4301	X5CrNi18-10	304	S30400
End Cap	1.4301	X5CrNi18-10	304	S30400
Source Cable	1.4310 or 1.4301	X10CrNi18-8 or X5CrNi18-10	301 or 304	S30100 or S30400

Note:  
Maximum Radioactive Contents:  
<sup>192</sup>Iridium: 15 Ci  
<sup>169</sup>Ytterbium: 35 Ci  
<sup>75</sup>Selenium: 30 Ci

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS TOLERANCES ARE	APPROVALS		DATE	SOURCE PRODUCTION & EQUIPMENT CO., INC. 113 TEAL ST, ST. ROSE, LA 70087			
	DO NOT SCALE DRAWING		DRAWN JJM III	04-09-07	MEDICAL SPECIAL FORM		
TREATMENT	NONE		CHECKED GCM	04-25-07			
FINISH	NONE		APPROVED GCM	04-25-07	B	BM1904	5
	QA CLASS	Q-T	SCALE: NTS		BM190405	SHEET 1 OF 1	



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**CERTIFICATE NUMBER:** USA/0747/S-96, Revision 2

**ORIGINAL REGISTRANT(S):**

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