



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

**IAEA CERTIFICATE OF COMPETENT AUTHORITY
SPECIAL FORM RADIOACTIVE MATERIALS
CERTIFICATE USA/0785/S-96, REVISION 1**

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

1. Source Identification - Source Production & Equipment Co., Inc. Model VSe Source Capsule.
2. Source Description - Cylindrical single encapsulation made of commercially pure Vanadium, laser seal welded, with an optional Nickel plating, or Rhodium or Titanium Aluminum Nitride (TiAlN) coating. Approximate outer dimensions are 4.25 mm (0.17 in.) in diameter and 5.00 mm (0.20 in.) in length. Construction shall be in accordance with attached Source Production & Equipment Co. Inc., Drawing No. BS1224, Rev. 1.
3. Radioactive Contents - No more than 5.55 TBq (150 Ci) of Selenium-75. The Se-75 is in solid elemental form or as a solid metal alloy.
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 applicable requirements of Subpart H of 10 CFR 71.
5. Expiration Date - This certificate expires on February 28, 2021.

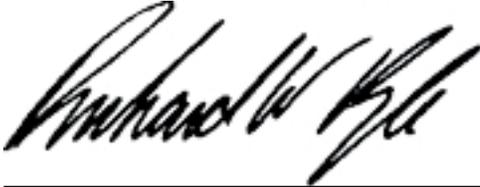
¹ "Regulations for the Safe Transport of Radioactive Material, 1996 Edition (Revised), No. TS-R-1 (ST-1, Revised)," published by the International Atomic Energy Agency(IAEA), Vienna, Austria.

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

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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 January 25, 2016 petition by Source Production and Equipment Company, Inc., St. Rose, LA, and in consideration of other information on file in this Office.

Certified By:



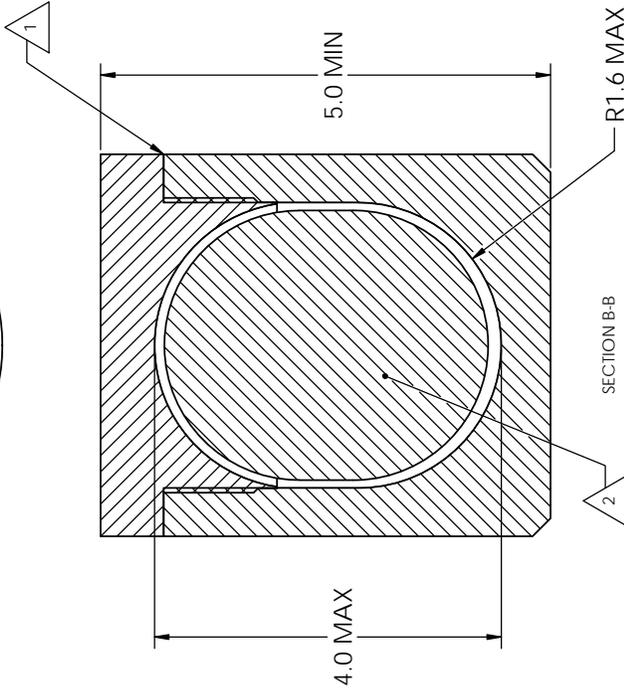
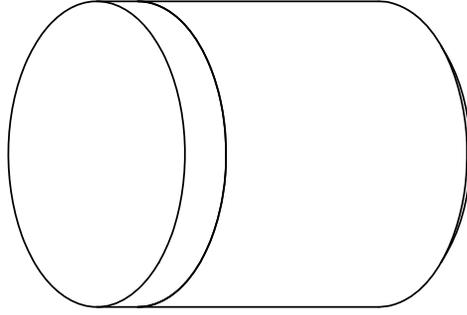
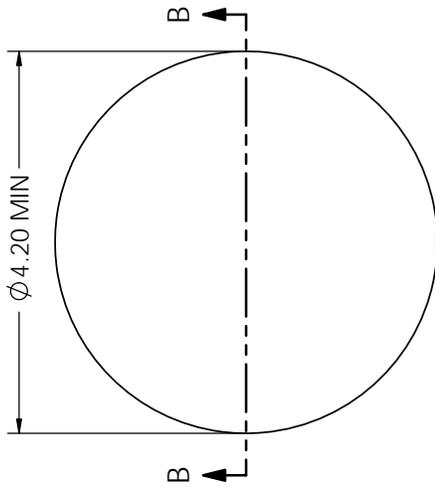
Feb 25 2016

(DATE)

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

Revision 1 - Issued to extend the expiration date, allow additional coatings, and update drawing.

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
1-2	ALL CHANGES ARE IN MD1.	MD1	MD1



S1224

NOTES:

1. LASER WELDED WITH MINIMUM 0.50 mm PENETRATION.
2. CONTENTS TO BE A MAXIMUM OF 85mg OF Se-75 IN SOLID ELEMENTAL FORM OR AS A SOLID METAL ALLOY.
3. MATERIAL IS COMMERCIAL PURE (0.99) VANADIUM.
4. CAPSULE MAY BE PLATED WITH 5 MICRONS NICKEL - OR COATED WITH RHODIUM, OR TITANIUM ALUMINUM NITRIDE (TIAlN).

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS TOLERANCES ARE:		APPROVALS		DATE	SOURCE PRODUCTION & EQUIPMENT CO., INC. 113 TEAL ST. ST. ROSE, LA 70087	
N/A		DRAWN SAJ	2/23/16		SELENIUM-75 SPECIAL FORM	
TREATMENT		CHECKED MD1	MD1		SIZE	REV
FINISH		APPROVED MD1	MD1		C	1
DO NOT SCALE DRAWING		OA CLASS		N/A	DWG. NO.	SCALE: NTS
					BS1224	BS122401
						SHEET 1 OF 1



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CERTIFICATE NUMBER: USA/0785/S-96, Revision 1

ORIGINAL REGISTRANT(S):

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