



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

**IAEA CERTIFICATE OF COMPETENT AUTHORITY
SPECIAL FORM RADIOACTIVE MATERIALS
CERTIFICATE USA/0812/S-96, REVISION 0**

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

1. Source Identification - Source Production & Equipment Company, Inc. G/SR Series source capsules.
2. Source Description - Cylindrical double or triple encapsulations. The double encapsulation is constructed of a vanadium inner encapsulation sealed by Laser Beam Welding (LBW) with either a Type 316 stainless steel or a titanium outer encapsulation that is sealed by either Gas Tungsten Arc Welding (GTAW) or LBW. Approximate outer dimensions of the double encapsulation (G/SR-INNER) are 4.9 mm (0.19 in.) in diameter and 6.85 mm (0.27 in.) in length. The triple encapsulations consist of a G/SR-INNER double encapsulation installed in a Type 316 stainless steel encapsulation that is sealed by GTAW or LBW and has either a single tab on one end or a tab on each end. Approximate outer dimensions of the triple encapsulations are 6.88 mm (0.27 in.) in diameter and 22.0 mm (0.87 in.) in length (G/SR-18) or 28.7 mm (1.13 in.) in length (G/SR-17). Construction shall be in accordance with attached Source Production & Equipment Co., Inc. Drawing No. BS1706 Rev. 2, Sheet 1 of 2.
3. Radioactive Contents - No More than 5.55 TBq (150 Ci) of Selenium-75. The Se-75 is in either 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 January 31, 2021.

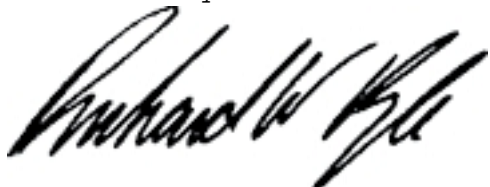
¹ "Regulations for the Safe Transport of Radioactive Material, 1996 Edition (Revised), No. TS-R-1 (ST-1, Revised)," published by the International Atomic Energy Agency (IAEA), Vienna, Austria.

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 July 29, 2015 petition by Source Production and Equipment Company, Inc., St. Rose, LA, and in consideration of other information on file in this Office.

Certified By:



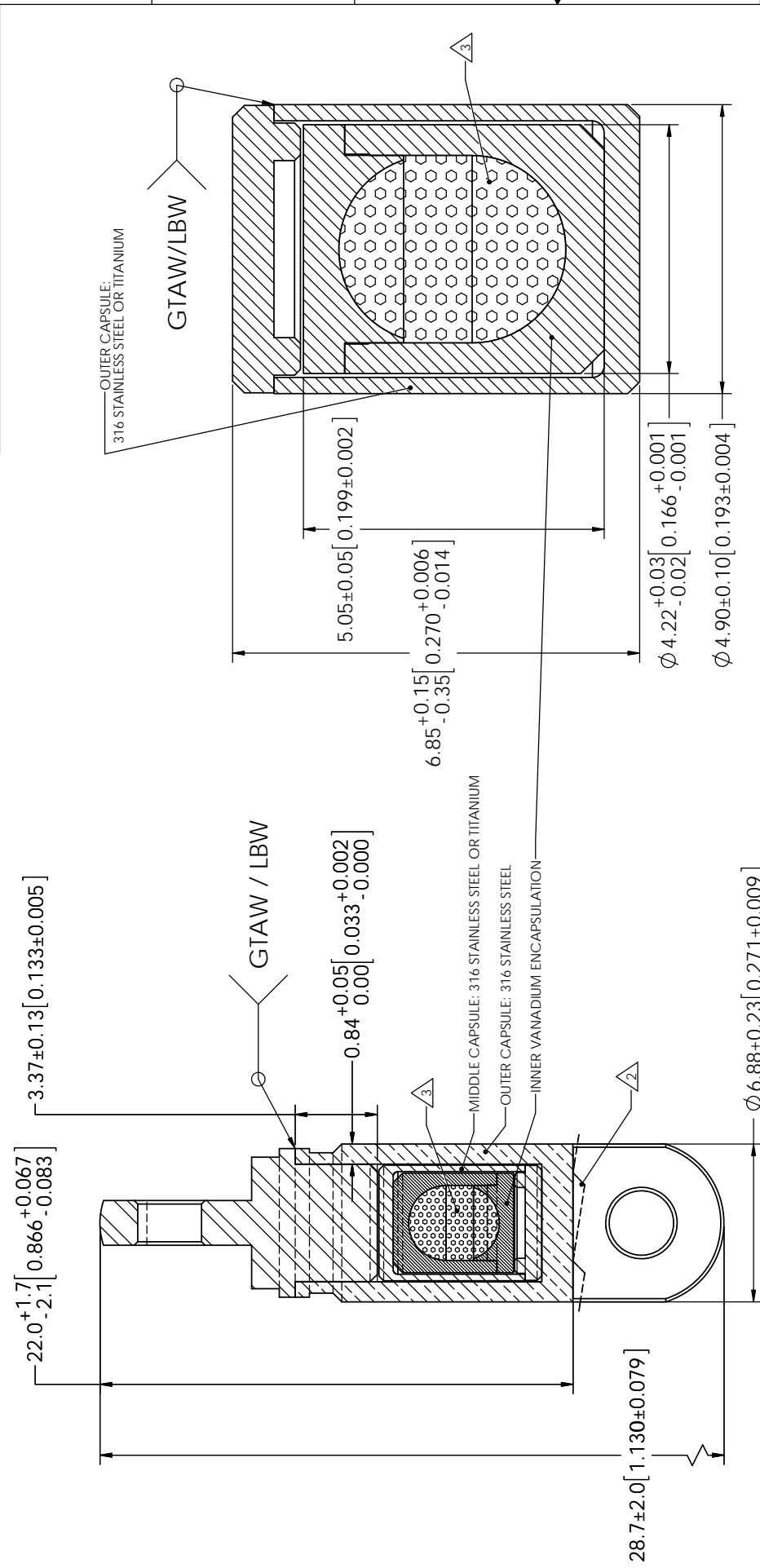
Jan 08 2016

(DATE)

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

Revision 0 - Original issue.

REVISIONS		
REV	DESCRIPTION	DATE



**TRIPLE ENCAPSULATED
G/SR-17 & G/SR-18**

**DOUBLE ENCAPSULATED
G/SR-INNER**

- NOTES:
1. DIMENSIONS IN [BRACKETS] ARE INCHES.
 2. LOWER CONNECTION TAB IS OPTIONAL. G/SR-17 HAS TWO TABS. G/SR-18 HAS A SINGLE TAB. BODY OF NON TABBED BOTTOM WILL BE FLAT AND CHAMFERED AS NECESSARY.
 3. RADIOACTIVE CONTENTS TO BE A MAXIMUM OF 100mg OF ELEMENTAL SELENIUM OR 125mg OF SELENIUM METAL ALLOY.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE MILLIMETERS TOLERANCES ARE: AS SHOWN	APPROVALS	DATE	SOURCE PRODUCTION & EQUIPMENT CO., INC. 113 TEAL ST. ST. ROSE, LA 70087		
	DRAWN SAJ	1/5/76			
	CHECKED MO1	MO1			
	APPROVED MO1	MO1			
TREATMENT	NONE		SIZE	DWG. NO.	REV
FINISH	NONE		A	BS1706	2
DO NOT SCALE DRAWING			SCALE: NTS	BS170602	SHEET 1 OF 2



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ORIGINAL REGISTRANT(S):

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