

U.S. Department of Transportation

## IAEA CERTIFICATE OF COMPETENT AUTHORITY SPECIAL FORM RADIOACTIVE MATERIALS

Pipeline and Hazardous Materials Safety Administration CERTIFICATE USA/0812/S-96, REVISION 1

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 $^1$  and the United States of America $^2$  for the transport of radioactive material.

- 1. <u>Source Identification</u> 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 double encapsulation encapsulations consist of a G/SR-INNER 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. 3.
- 3. Radioactive Contents No more then 5.55 TBq (150 Ci) of Selenium- 75. The Se-75 is in a solid metal alloy.

<sup>&</sup>lt;sup>1</sup> "Regulations for the Safe Transport of Radioactive Material, 2012 Edition, No. SSR-6" published by the International Atomic Energy Agency (IAEA), Vienna, Austria.

<sup>&</sup>lt;sup>2</sup> Title 49, Code of Federal Regulations, Parts 100-199, United States of America.

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- 4. 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.
- 5. Expiration Date This certificate expires on April 30, 2024. Previous editions which have not reached their expiration date may continue to be used.

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 April 22, 2019 petition by Source Production and Equipment Company, Inc., St. Rose, LA, and in consideration of other information on file in this Office.

Certified By:

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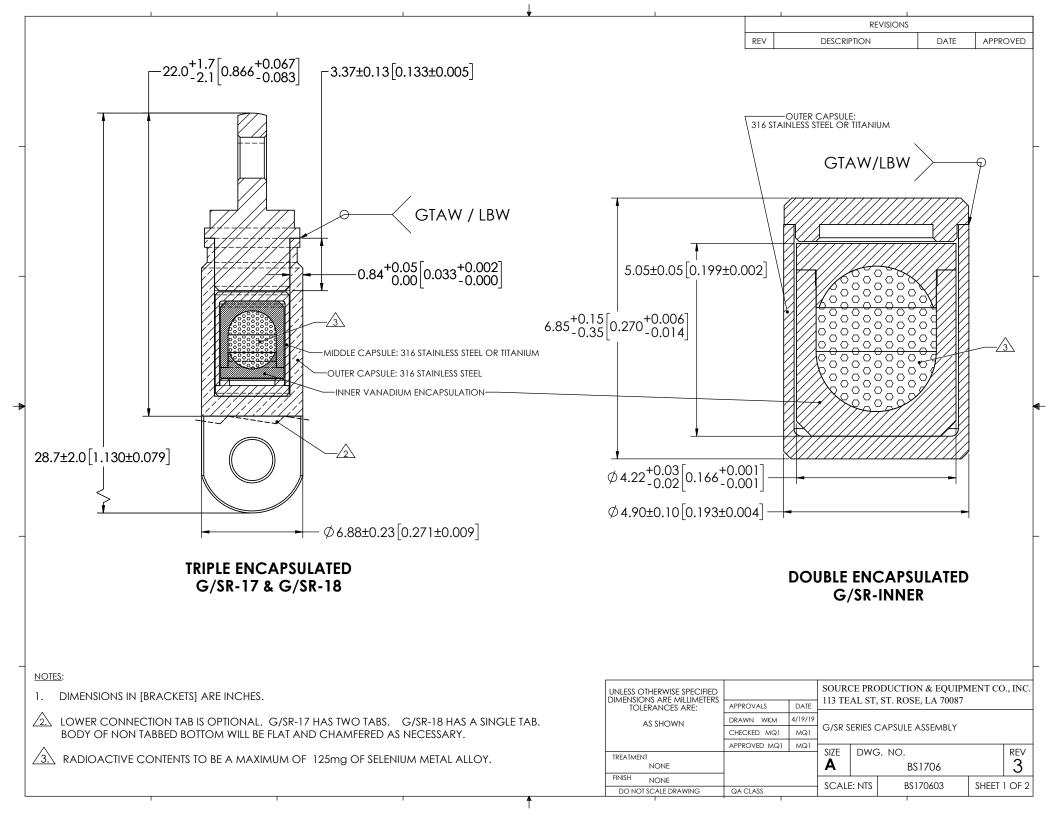
May 03, 2019 (DATE)

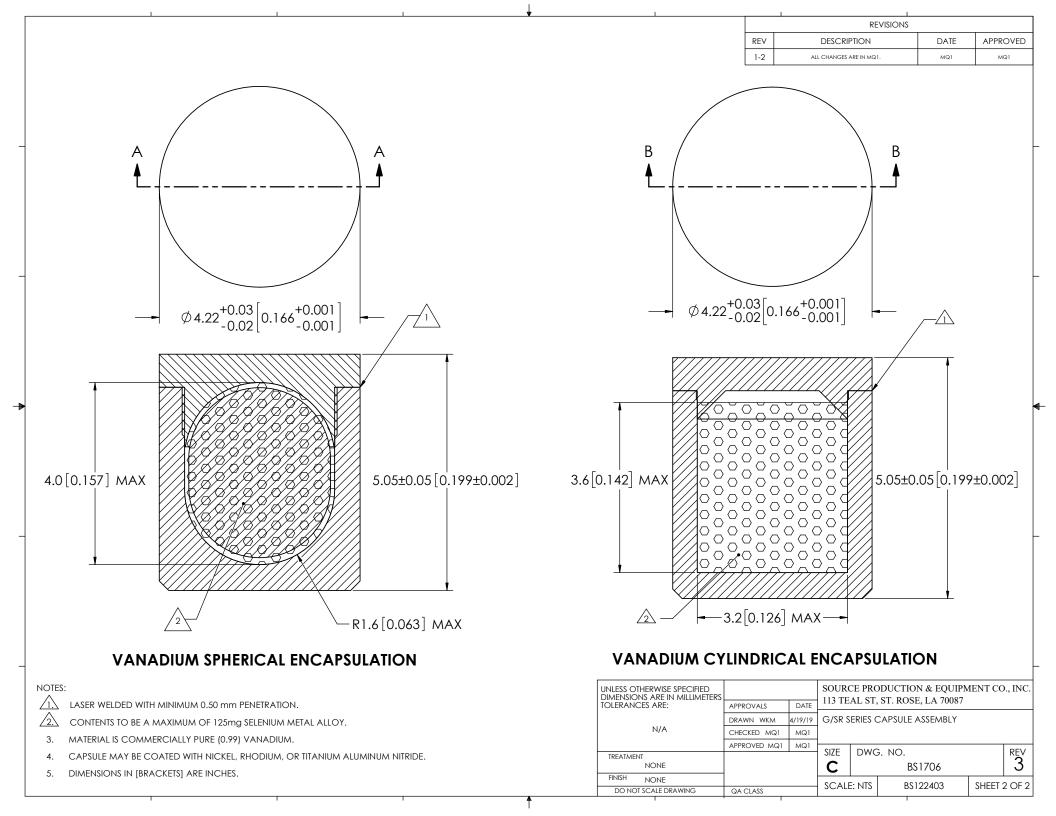
₩illiam Schoonover

Associate Administrator for Hazardous

Materials Safety

Revision 1 - Issued to extend the expiration date, and to eliminate Selenium-75 in elemental form.







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CERTIFICATE NUMBER: USA/0812/S-96

## ORIGINAL REGISTRANT(S):

Source Production and Equipment Company, Inc. 113 Teal Street St. Rose, LA, 70087 USA

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