



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

**IAEA CERTIFICATE OF COMPETENT AUTHORITY
SPECIAL FORM RADIOACTIVE MATERIALS
CERTIFICATE USA/0786/S-96, REVISION 2**

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. Bulk Source Capsule.
2. Source Description - Cylindrical single encapsulation made of Type 410 stainless steel and tungsten inert gas seal welded. Approximate outer dimensions are 12.7 mm (0.5 in.) in diameter and 50.8 mm (2.0 in.) in length. Construction shall be in accordance with attached Source Production & Equipment Co., Inc. Drawing No. B170500, Rev. 0.
3. Radioactive Contents - No more than either 92.5 TBq (2,500 Ci) of Selenium-75, 185.0 TBq (5,000 Ci) of Iridium-192, or 1.0 TBq (27 Ci) of Ytterbium-169. The Se-75 is in either solid elemental form or as a solid metal alloy sealed in primary Vanadium capsules. The Ir-192 is in solid metallic form. The Yb-169 is in the form of solid oxide pellets.
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. On November 30, 2016, this certificate supersedes all previous revisions of USA/0786/S-96.

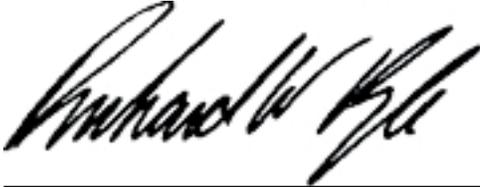
¹ "Regulations for the Safe Transport of Radioactive Material, 1996 Edition (Revised), No. TS-R-1 (ST-1, Revised)," published by the International Atomic Energy Agency(IAEA), Vienna, Austria.

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

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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 18, 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:



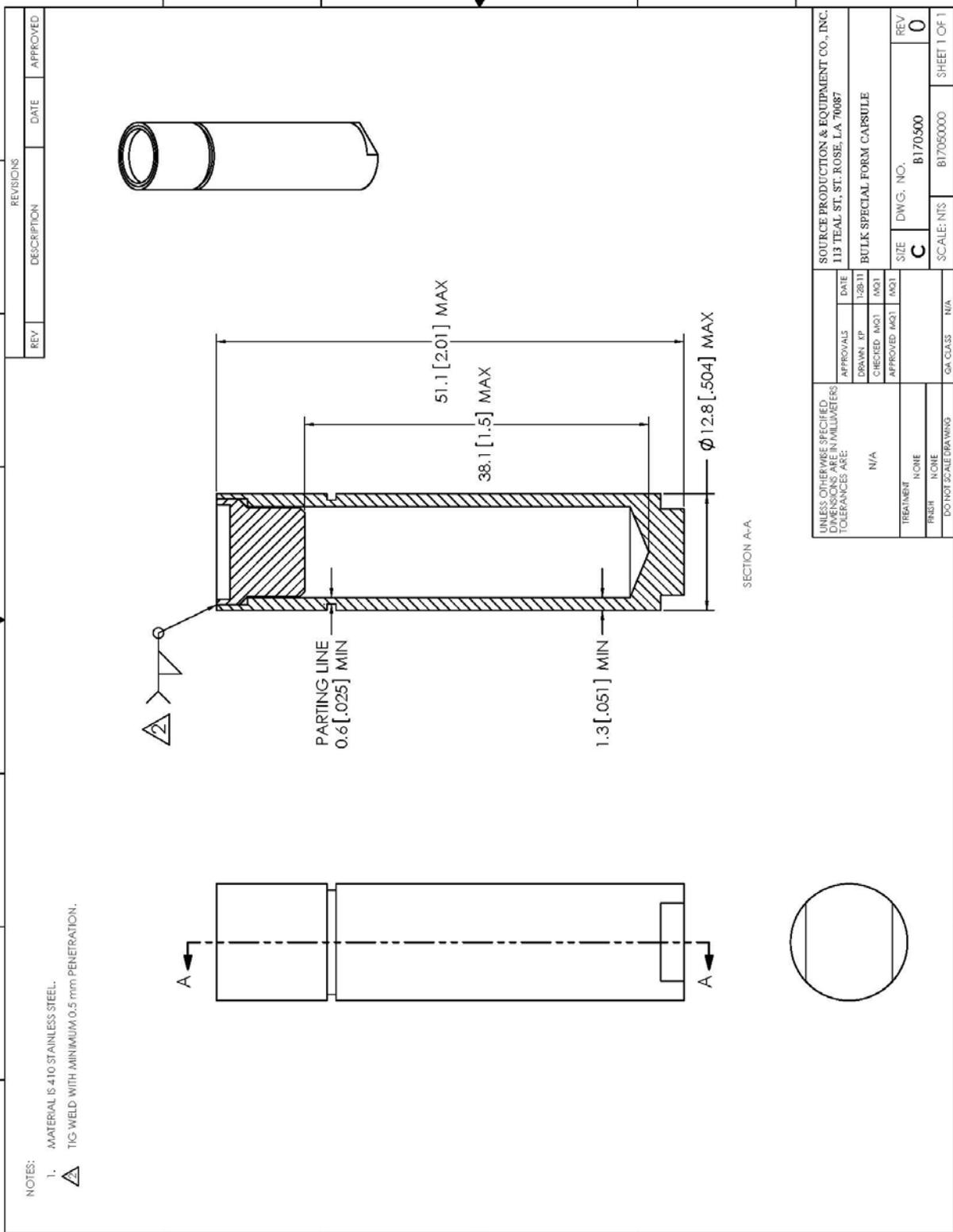
Aug 22 2016

(DATE)

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William Schoonover
Acting Associate Administrator for Hazardous Materials Safety

Revision 2 - Issued to allow Yb-169 as an authorized radioactive content.

Appendix A: SPEC Drawing B170500, Rev. 0, Bulk Special Form Capsule Assembly





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