



U.S. Department of Transportation

IAEA CERTIFICATE OF COMPETENT AUTHORITY SPECIAL FORM RADIOACTIVE MATERIALS

Pipeline and Hazardous Materials Safety Administration CERTIFICATE USA/0331/S-96, REVISION 13

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. Source Identification Gammatron Model AN-HP Series Models 1-8.
- 2. Source Description Either:
 - a. Cylindrical double encapsulation made of ARMCO 17-4 (USN N05500) stainless steel and inert gas welded. Approximate exterior dimensions are either 12.7 mm (0.5 in.) in diameter and 12.7 mm (0.5 in.) in length (Model 1); or 12.7 mm (0.5 in.) in diameter and 19.0 mm (0.75 in.) in length (Model 2); or 15.9 mm (0.625 in.) in diameter and 15.9 mm (0.625 in.) in length (Model 3); or 19.0 mm (0.75 in.) in diameter and 50.8 mm (2.0 in.) in length (Model 4); or 19.0 mm (0.75 in.) in diameter and 76.2 mm (3.0 in.) in length (Model 5); or 26.7 mm (1.05 in.) in diameter and 109.2 mm (4.3 in.) in length (Model 6). Construction shall be in accordance with attached Gammatron Drawing Nos. A-2002 (Model 1), A-2004 (Model 2), A-2006 (Model 3), A-2008 (Model 4), A-2040 (Model 5), or A-2012 (Model 6); or,

¹ "Regulations for the Safe Transport of Radioactive Material, 2012 Edition, No. SSR-6" 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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b. Cylindrical double encapsulation made of Type 304 stainless steel (inner encapsulation) and MP35N alloy (outer encapsulation) and heliarc seal welded. Approximate exterior dimensions are either 26.7 mm (1.05 in.) in diameter and 109.2 mm (4.3 in.) in length (Model 7) or 31.24 mm (1.23 in.) in diameter and 57.15 mm (2.25 in.) in length (Model 8). Construction shall be in accordance with attached Gammatron Drawing Nos. A-2012 (Model 7) or A-2014 (Model 8).

Capsules constructed in accordance with Gammatron Drawing No. A-2012 may be up to an additional 31.75 mm (1.25 in.) in length.

Capsules constructed in accordance with Gammatron Drawing No. A-2014 may be up to an additional 25.4 mm (1.0 in.) in length.

3. Radioactive Contents - For the ARMCO 17-4 (USNN0550) stainless steel capsules, no more than either 0.74 TBq (20.0 Ci) of Americium-241 or 0.0185 TBq (0.5 Ci) of Californium-252. The Am-241 is in oxide form and may be mixed with beryllium. The Cf-252 is in the form of metal pellets or a wire.

For the Type 304 stainless steel/MP35N capsules, no more than $0.74\,$ TBq (20.0 Ci) of Americium-241. The Am-241 is in oxide form and is mixed with beryllium.

- 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 May 31, 2029. Previous editions which have not reached their expiration date may continue to be used.

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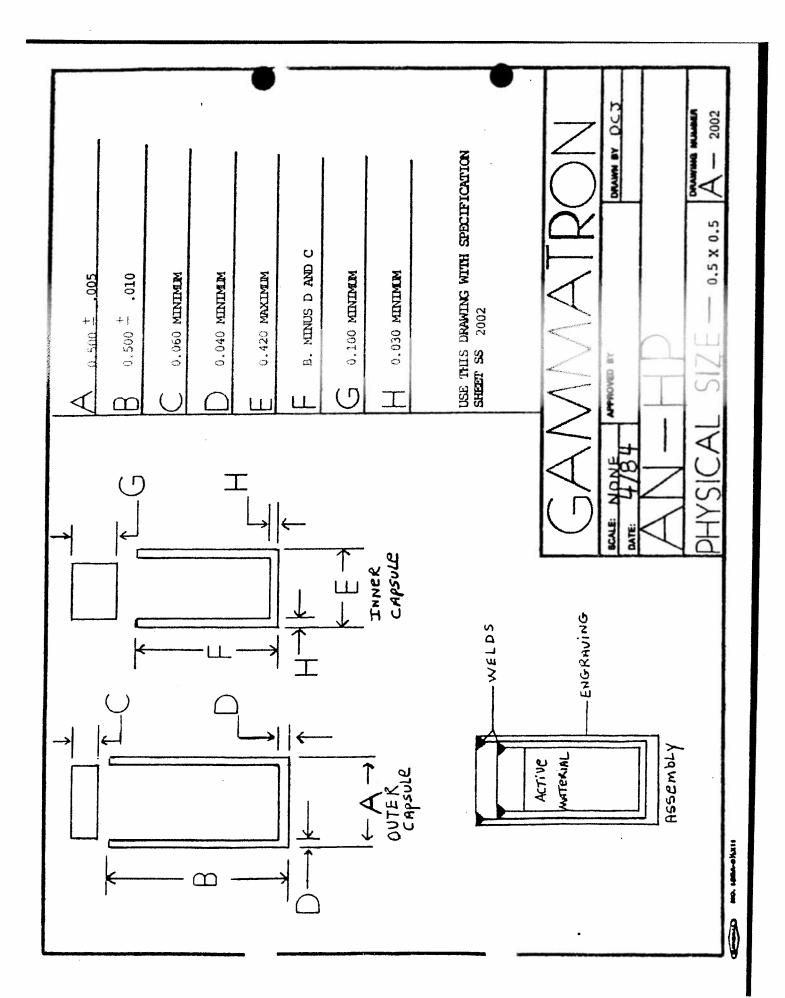
This certificate is issued in accordance with paragraph(s) 804 of the IAEA Regulations and Section 173.476 of Title 49 of the Code of Federal Regulations, in response to the April 10, 2024 petition by Gammatron, Houston, TX, and in consideration of other information on file in this Office.

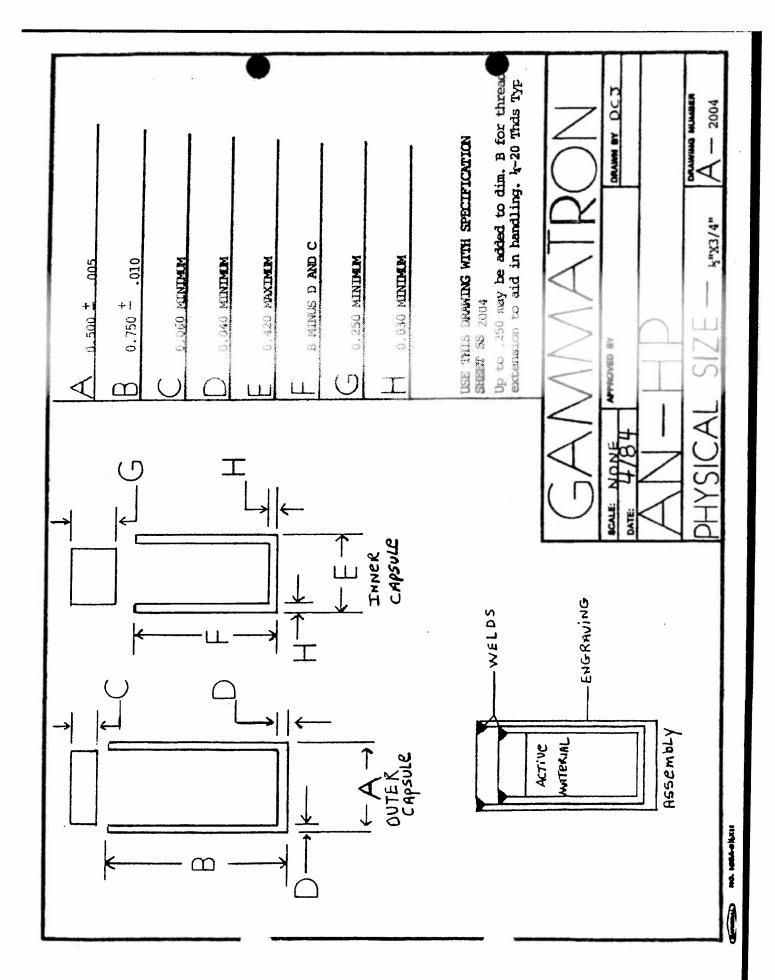
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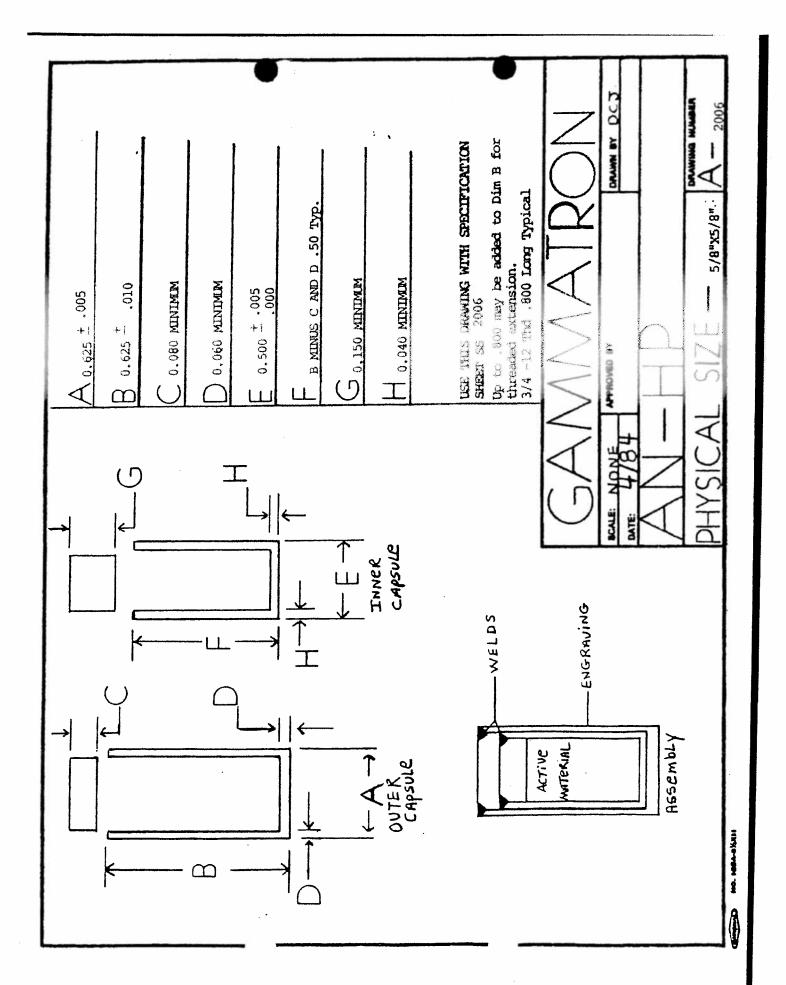
William Schoonover

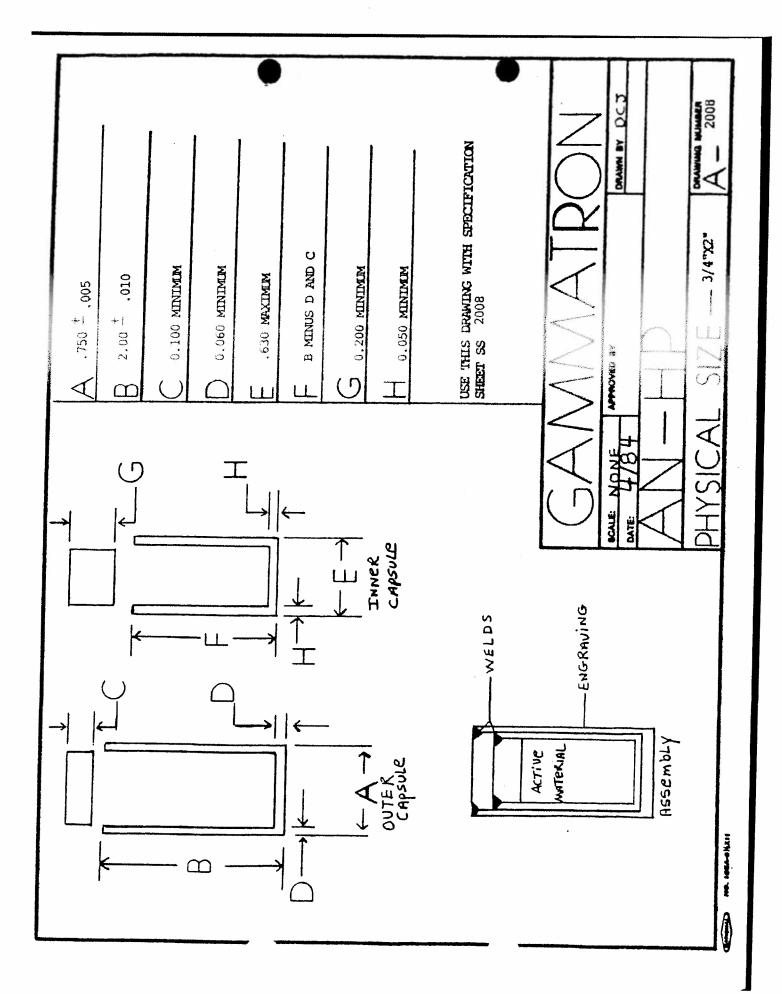
William Schoonover Associate Administrator for Hazardous Materials Safety May 16, 2024 (DATE)

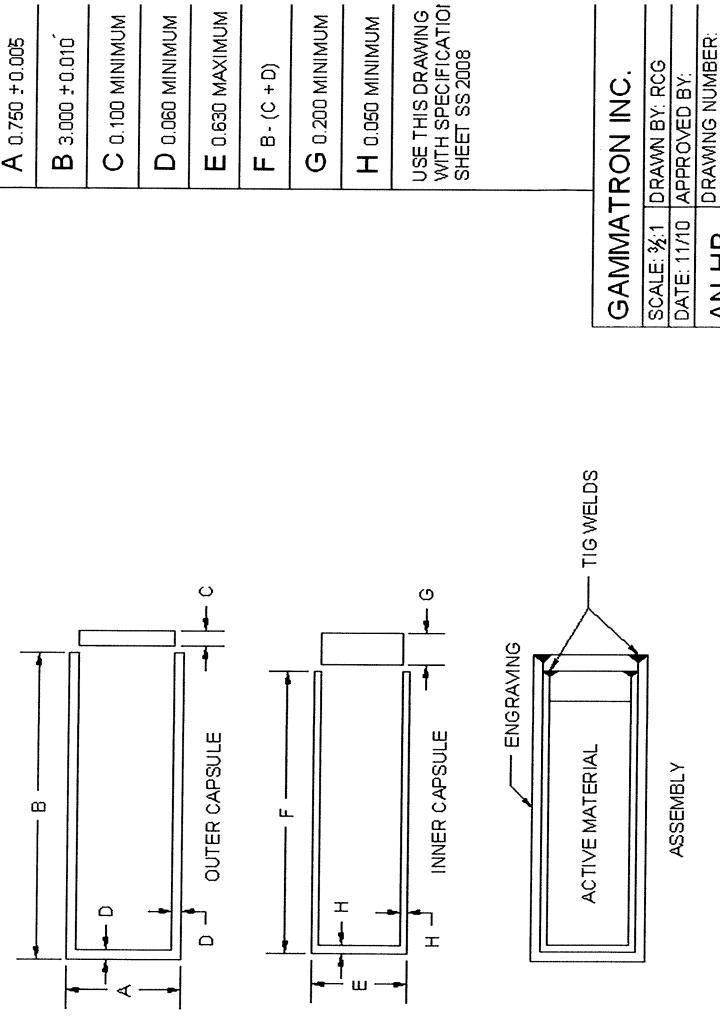
Revision 13 - Issued to extend the expiration date.



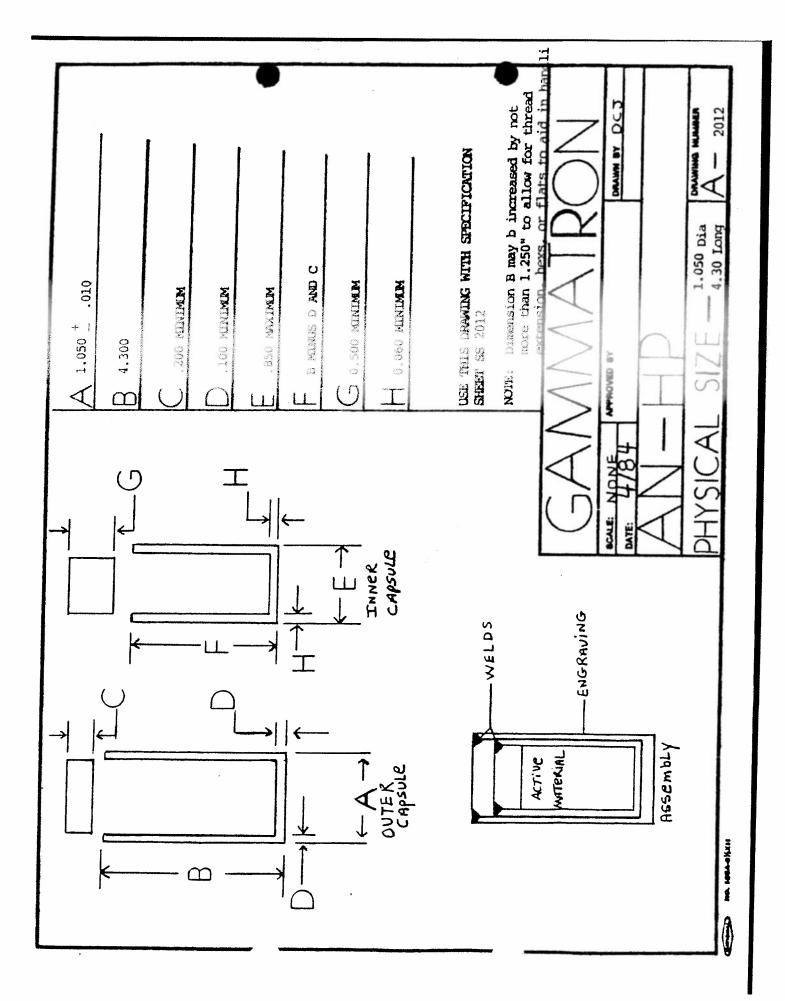


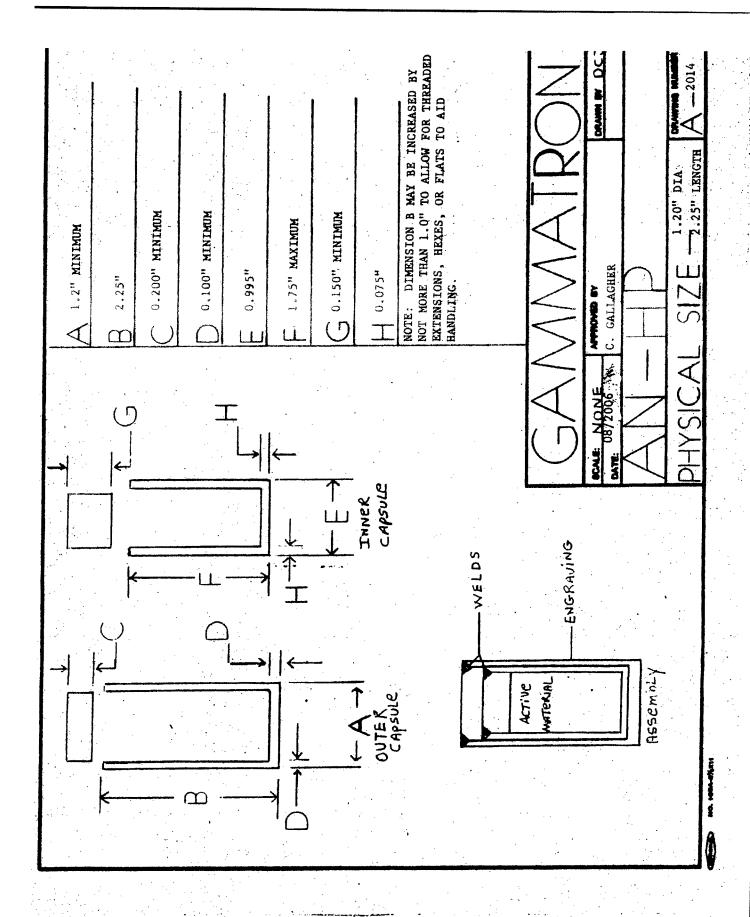






NOTE: OUTER & INNER CAPSULE MADE PHYSICAL SIZE: 34 X 3.0 OF ARMCO 17-4 STAINLESS STEF! A-2040 AN-HP







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