



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

**IAEA CERTIFICATE OF COMPETENT AUTHORITY  
SPECIAL FORM RADIOACTIVE MATERIALS  
CERTIFICATE USA/0376/S-96, REVISION 5**

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 Agency<sup>1</sup> and the United States of America<sup>2</sup> for the transport of radioactive material.

1. Source Identification - Gammatron Specification SS-2050.
2. Source Description - Cylindrical double encapsulation constructed of Type 17-4 stainless steel and seal welded. Approximate outer dimensions are 25.4 mm (1.0 in.) to 38.1 mm (1.5 in.) in diameter and 25.4 mm (1.0 in.) to 101.6 mm (4.0 in.) in length. Construction shall be in accordance with attached Gammatron Drawing No. A-2050.
3. Radioactive Contents - No more than 0.222 TBq (6.0 Ci) of Americium-241 oxide combined with beryllium, boron, or lithium powder.
4. Quality Assurance - Records of Quality Assurance activities required by Paragraph 310 of the IAEA regulations<sup>1</sup> 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, 2016.

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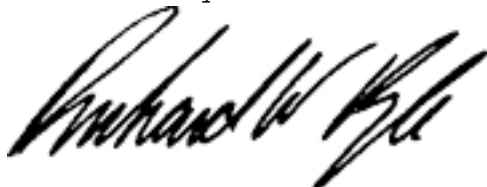
<sup>1</sup> "Regulations for the Safe Transport of Radioactive Material, 1996 Edition (Revised), No. TS-R-1 (ST-1, Revised)," published by the International Atomic Energy Agency (IAEA), Vienna, Austria.

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

**CERTIFICATE USA/0376/S-96, REVISION 5**


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 18, 2011 petition by Gammatron, Houston, TX, and in consideration of other information on file in this Office.

Certified By:



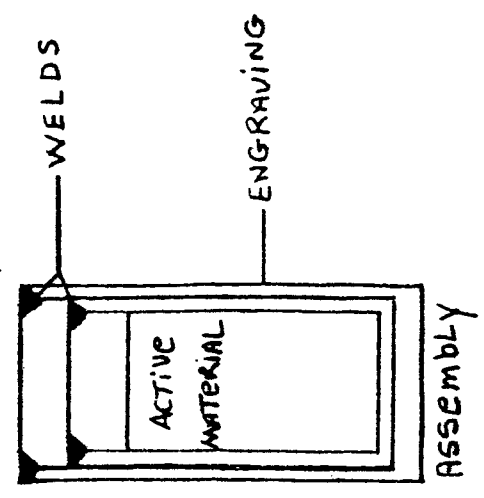
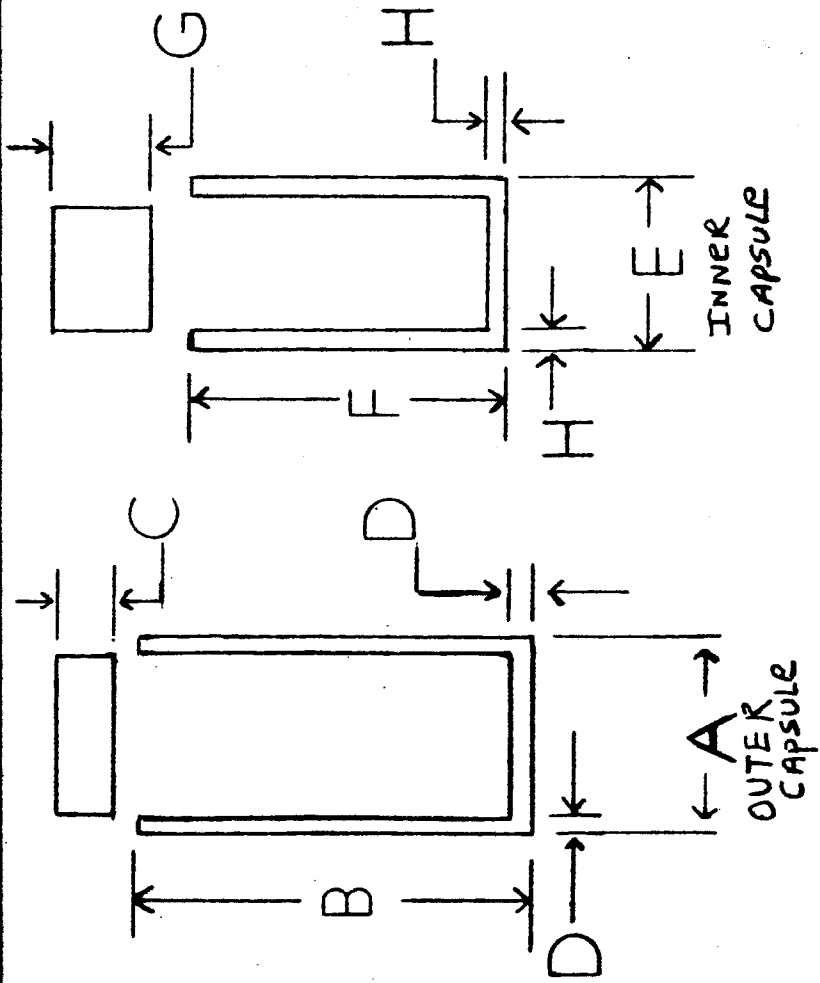
**Jan 31 2011**

(DATE)

 Dr. Magdy El-Sibaie

Associate Administrator for Hazardous Materials Safety

Revision 5 - Issued to extend the expiration date.



- A 1.00 min. to 1.5" max.
- B 1.00 min. to 4.0" max.
- C .070 min. to .60 max.
- D .050 minimum
- E .900 min. to 1.380 max.
- F 1.00 minus C + D minimum  
4.00 minus C + D maximum
- G .200 minimum
- H .045 minimum

USE THIS DRAWING WITH SPECIFICATION  
SHEET SS - 2050

# GAMMATRON

SCALE: NONE  
DATE: 4/84

APPROVED BY

DRAWN BY DCJ

AN-HP

PHYSICAL SIZE - 1 to 1-1/2 OD  
1 to 4" Long  
DRAWING NUMBER  
A-2050



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**CERTIFICATE NUMBER:** USA/0376/S-96, Revision 5

**ORIGINAL REGISTRANT(S):**

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