



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

**IAEA CERTIFICATE OF COMPETENT AUTHORITY  
SPECIAL FORM RADIOACTIVE MATERIALS  
CERTIFICATE USA/0018/S-96, REVISION 9**

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 - SR-Cf-100 Series neutron source manufactured by either the Savannah River Laboratory or the Oak Ridge National Laboratory.
2. Source Description - Cylindrical seal welded double encapsulation with the inner encapsulation made of a platinum-rhodium alloy and the outer encapsulation made of Type 304L stainless steel or Zircalloy-2. Approximate outer dimensions are 9.4 mm (0.37 in.) in diameter and 38.1 mm (1.5 in.) in overall length. Construction shall be in accordance with attached Drawing No. USA/0018/S.
3. Radioactive Contents - No more than 0.192 TBq (5.2 Ci) of Californium-252. The Cf-252 is in the form of an oxide.
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 September 30, 2015.

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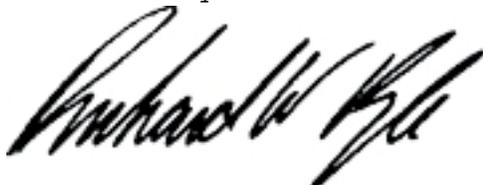
<sup>1</sup> "Regulations for the Safe Transport of Radioactive Material, 1996 Edition (Revised), No. TS-R-1 (ST-1, Revised)," published by the International Atomic Energy Agency (IAEA), Vienna, Austria.

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

**CERTIFICATE USA/0018/S-96, REVISION 9**

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 August 30, 2010 petition by Department of Energy, Washington, DC, and in consideration of other information on file in this Office.

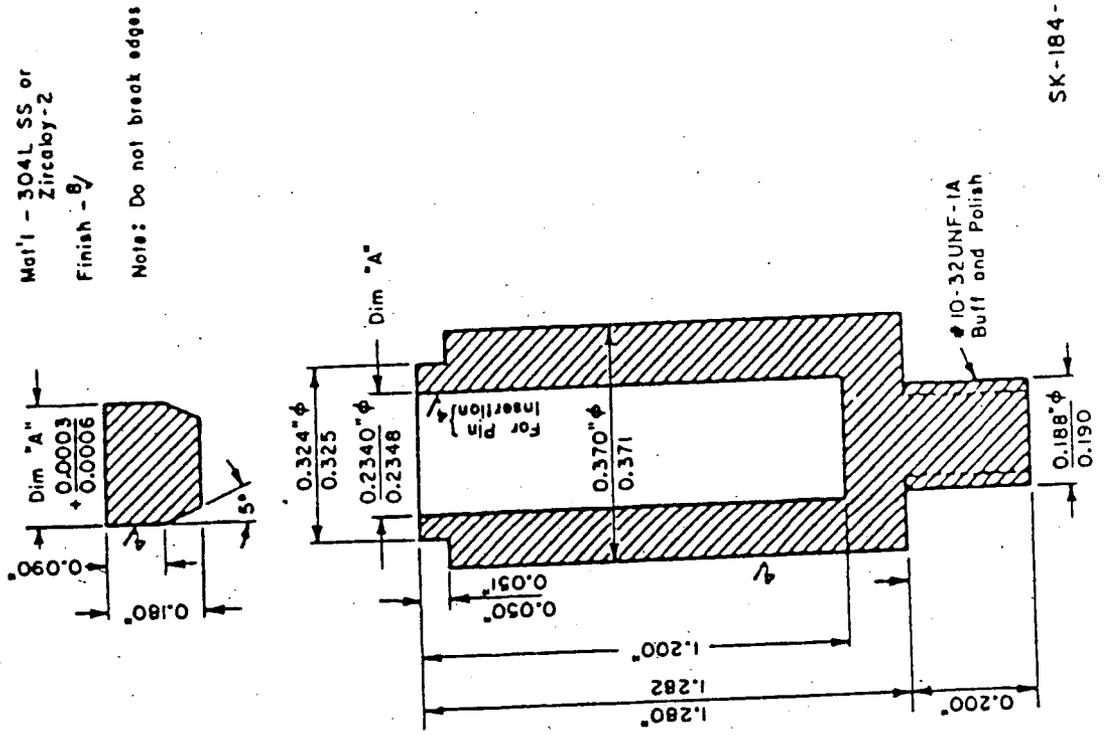
Certified By:



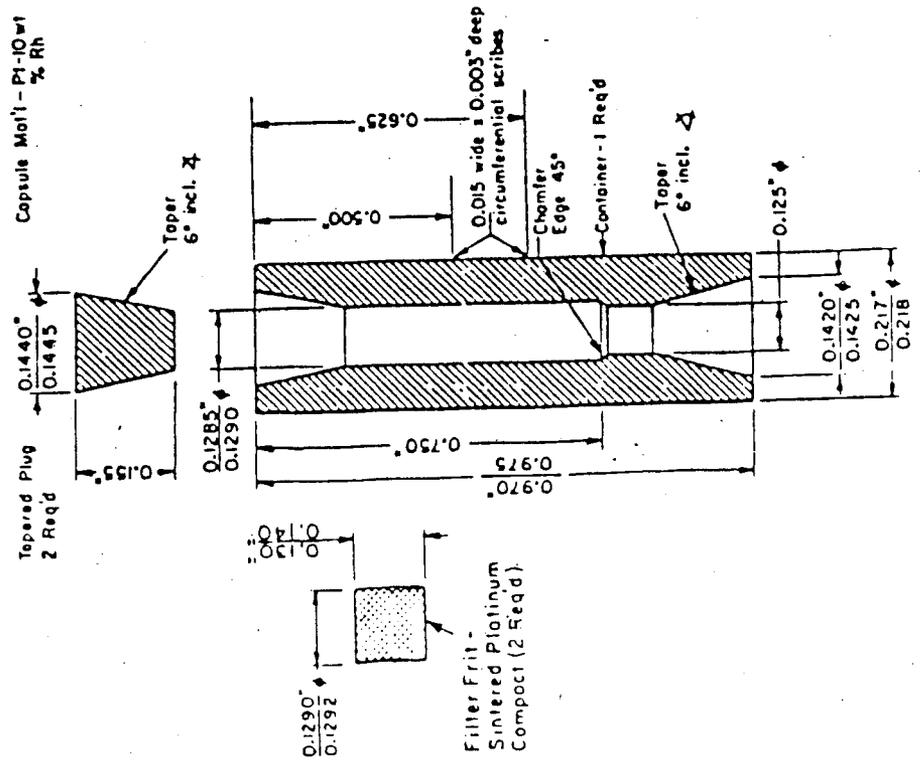
**Sep 03 2010**  
(DATE)

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

Revision 9 - Issued to extend the expiration date.



SK-184-PM



SK-183-PM

FIGURE 2. SR-CT 100 Series - Inner Capsule Components

FIGURE 4. SR-CT 100 SERIES - SECONDARY CAPSULE



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**CERTIFICATE NUMBER:** USA/0018/S-96, Revision 9

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