



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

**IAEA CERTIFICATE OF COMPETENT AUTHORITY  
SPECIAL FORM RADIOACTIVE MATERIALS  
CERTIFICATE USA/0065/S-96, REVISION 10**

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 - Model SR CF-1000 Series neutron sources manufactured by either the Savannah River Laboratory or the Oak Ridge National Laboratory.
2. Source Description - Cylindrical single encapsulation made of Type 304L stainless steel and inert gas seal welded. Approximate outer dimensions are 30.2 mm (1.19 in.) in diameter and 95.3 mm (3.75 in.) in length. A lifting stem on one end measures an additional 44.5 mm (1.75 in.) in length. Minimum wall thickness is 1.15 mm (0.045 in.). Construction shall be in accordance with attached E.I. Du Pont De Nemours and Co., Inc. Drawing No. ST3-18567, dated 9/10/75.
3. Radioactive Contents - No more than 1.9 TBq (52.0 Ci) of Californium-252 in the form of an oxide or cermet.
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 August 31, 2020.

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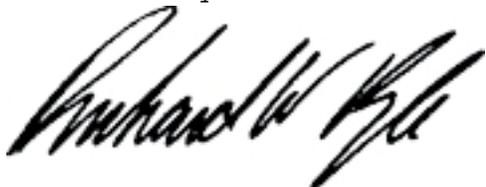
<sup>1</sup> "Regulations for the Safe Transport of Radioactive Material, 1996 Edition (Revised), No. TS-R-1 (ST-1, Revised)," published by the International Atomic Energy Agency (IAEA), Vienna, Austria.

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

**CERTIFICATE USA/0065/S-96, REVISION 10**

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 30, 2015 petition by Department of Energy, Washington, DC, and in consideration of other information on file in this Office.

Certified By:



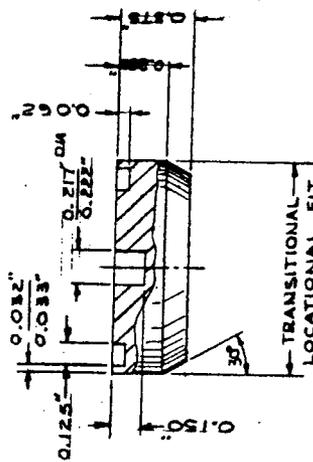
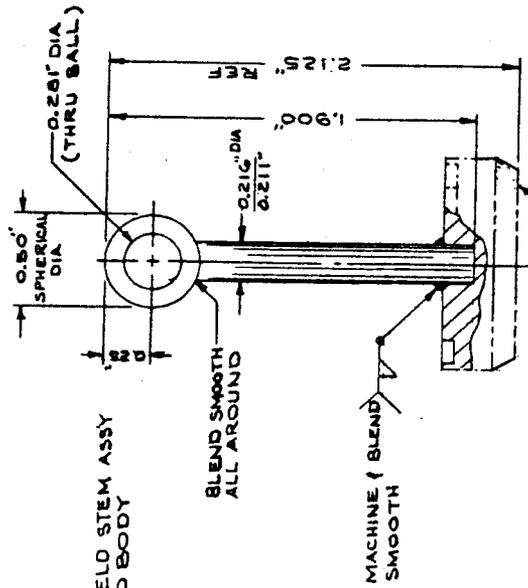
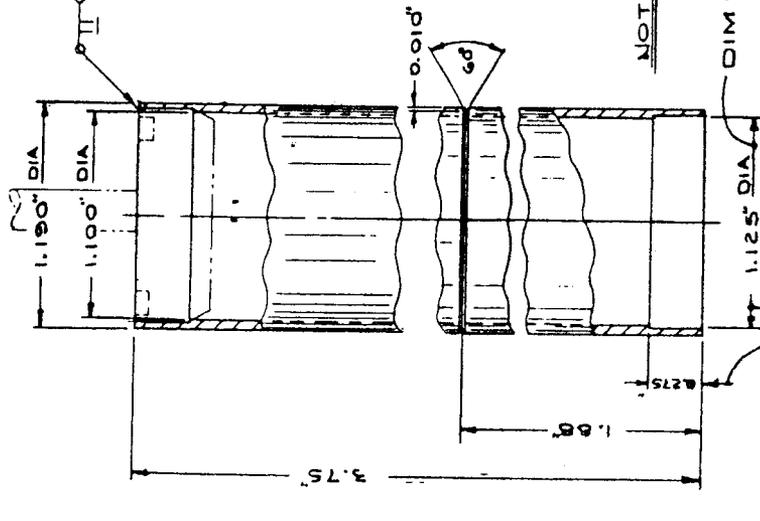
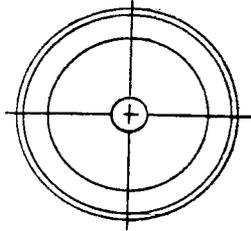
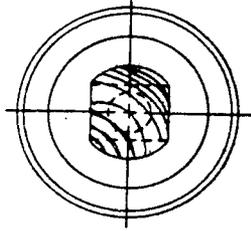
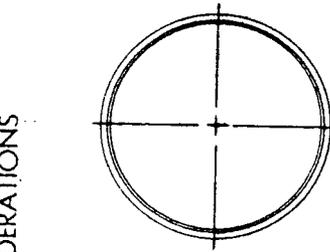
**Aug 19 2015**

(DATE)

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

Revision 10 - Issued to extend the expiration date.

Analyze this part for  
SAFETY CONSIDERATIONS



WELD STEM ASSY TO BODY  
BLEND SMOOTH ALL AROUND  
MACHINE (BLEND) SMOOTH  
CAP (SEE DETAIL)

MAT'L: 304 L SST  
REQ'D: 1-AS SHOWN  
1-WITHOUT 0.217/0.222 DIA

STEM & BALL  
MAT'L: 17-4PH SST  
REQ'D: 1

NOTE:  
1- BUFF - POLISH ALL OUTSIDE SURFACES, ALL PIECES.

DIM "A"

TYPICAL BOTH ENDS  
BODY  
MAT'L: 304 L SST  
REQ'D: 1

FINISH ALL MACHINED SURFACES U O S	TOLERANCES ON ALL DIMENSIONS UNLESS OTHERWISE NOTED SHALL BE ONE PLACE DECIMALS UNLESS OTHERWISE SPECIFIED
BREAK ALL SHARP EDGES U O S	FRACTIONAL ± 0.005
FIN FINISHES IN THIS DRAWING SHALL BE TO THE MAXIMUM ACCEPTABLE EQUIVALENT VALUE BY A. A. MERO INC.	ANGULAR ± 0.50

U. S. ATOMIC ENERGY COMMISSION  
E. I. DU PONT DE NEMOURS & CO., INC.  
SAVANNAH RIVER PLANT PROGRAM

PROJECT NO. ES-037502

DRIVEN BY H.G. NAVE  
CHECKED BY J.C. SHAW 9-9-75  
DATE 9-10-75

SR-CF 1000 SERIES  
SHIPPING CONTAINER

DATE 9-10-75 SCALE 2X FULL TITLE SR-18567



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of Transportation

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Washington, D.C. 20590

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Hazardous Materials  
Safety Administration**

**CERTIFICATE NUMBER:** USA/0065/S-96, Revision 10

**ORIGINAL REGISTRANT(S):**

Dr. James M. Shuler  
Manager, Packaging Certification Program  
Department of Energy  
U.S. Department of Energy  
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EM-60  
Washington, DC 20585