



U.S. Department
of Transportation

Pipeline and
Hazardous Materials
Safety Administration

East Building, PHH-23
1200 New Jersey Ave, SE
Washington, D.C. 20590

IAEA CERTIFICATE OF COMPETENT AUTHORITY
SPECIAL FORM RADIOACTIVE MATERIALS

CERTIFICATE USA/0080/S-96, REVISION 7

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 - Monsanto Research Corporation capsule identified by Monsanto Research Corporation Drawing No. SK195-2A0 (a prototype of Model No. 24132).
2. Source Description - The source described by this certificate is a TIG-welded, doubly encapsulation constructed of Type 304 stainless steel, and measures 3.175 cm (1.25 in.) in diameter by 10.80 cm (4.25 in.) in length. Construction shall be in accordance with attached Monsanto Research Corporation Drawing No. SK195-2A0.
3. Radioactive Contents - This neutron source consists of not more than 0.395 TBq (10.67 Ci) of Am-241 as americium oxide powder, mixed with lithium hydride powder.
4. Special Conditions -
 - a. This certificate does not apply to any source manufactured according to Monsanto Research Corporation Drawing No. SK195-2A0 after January 1, 2000.
 - b. This certificate remains valid only insofar as no object is ever inserted in the tap hole at the base of the capsule.

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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5. 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.

6. Expiration Date - This certificate expires on February 28, 2025. Previous editions which have not reached their expiration date may continue to be used.

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 February 3, 2020 petition by Department of Energy, Washington, DC, and in consideration of other information on file in this Office.

Certified By:

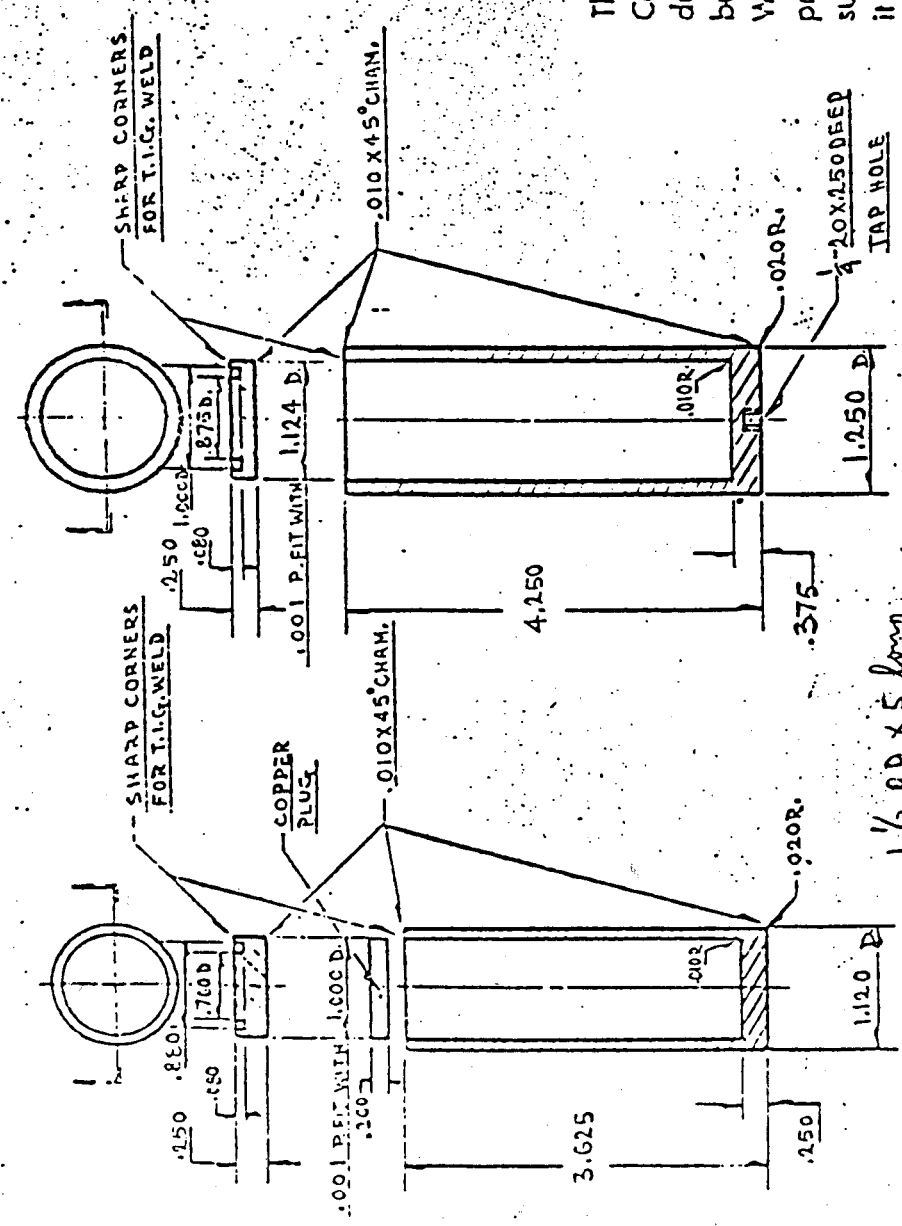


William Schoonover
Associate Administrator for Hazardous
Materials Safety

February 25, 2020
(DATE)

Revision 7 - Issued to extend the expiration date.

DWG



NOTE:

1. DIA. CLEARANCE BETWEEN INNER AND OUTER CONTAINER .001 MINIMUM. .002 MAXIMUM.
2. WELD PENETRATION .050 DESI R AND .040 MINIMUM.

NOTICE

This drawing is the property of Monsanto Research Corporation and must be returned, without reproduction or duplication, at any time upon request but in any event at completion of the work or job. While in the possession of the recipient, it must be properly safeguarded against revelation or disclosure to anyone except those employees who require it for the work or job. The recipient must keep it confidential, and require his (its) employees to keep it confidential, the information contained herein.

OUTER CONTAINER

INNER CONTAINER

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES
 TOLERANCES:
 DECIMALS FRACTIONS
 .XX = ± .02 ± 1/64
 .XXX = ± .005 ANGLES
 .XXX BASIC 32 ± 30'
 ALL SURFACES ✓ MATERIAL 304 S.S. & ANNEALED

APPD				
APPD				
APPD	<i>[Signature]</i>	8-14-72		
APPD	<i>[Signature]</i>	8-11-72		
CHECKED				
DRAWN	<i>[Signature]</i>	8-11-72		
SIGNATURE		DATE		

MONSANTO RESEARCH CORPORATION
 DAYTON LABORATORY
 DAYTON, OHIO

A-M-Li NEUTRON SOURCE (SX10⁵)

STANDARD DRAWING	REV
DWG NO.	REV
SK 195-2A0	
SHEET	OF

SCALE: WT CALC ACT.
 COO IDENT NO.



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CERTIFICATE NUMBER: USA/0080/S-96

ORIGINAL REGISTRANT(S) :

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U.S. Department of Energy
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EM-60
Washington, DC, 20585
USA