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

U.S. Department of Transportation

Pipeline and Hazardous Materials Safety Administration

IAEA CERTIFICATE OF COMPETENT AUTHORITY SPECIAL FORM RADIOACTIVE MATERIALS

CERTIFICATE USA/0080/S, REVISION 8

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[1] and the United States of America[2] 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.

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[1] "Regulations for the Safe Transport of Radioactive Material, 2018 Edition, No. SSR-6 (Rev. 1)" published by the International Atomic Energy Agency (IAEA), Vienna, Austria.

[2] Title 49, Code of Federal Regulations, Parts 100-199, United States of America.

CERTIFICATE USA/0080/S, REVISION 8

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, 2030. Previous editions which have not reached their expiration date may continue to be used.

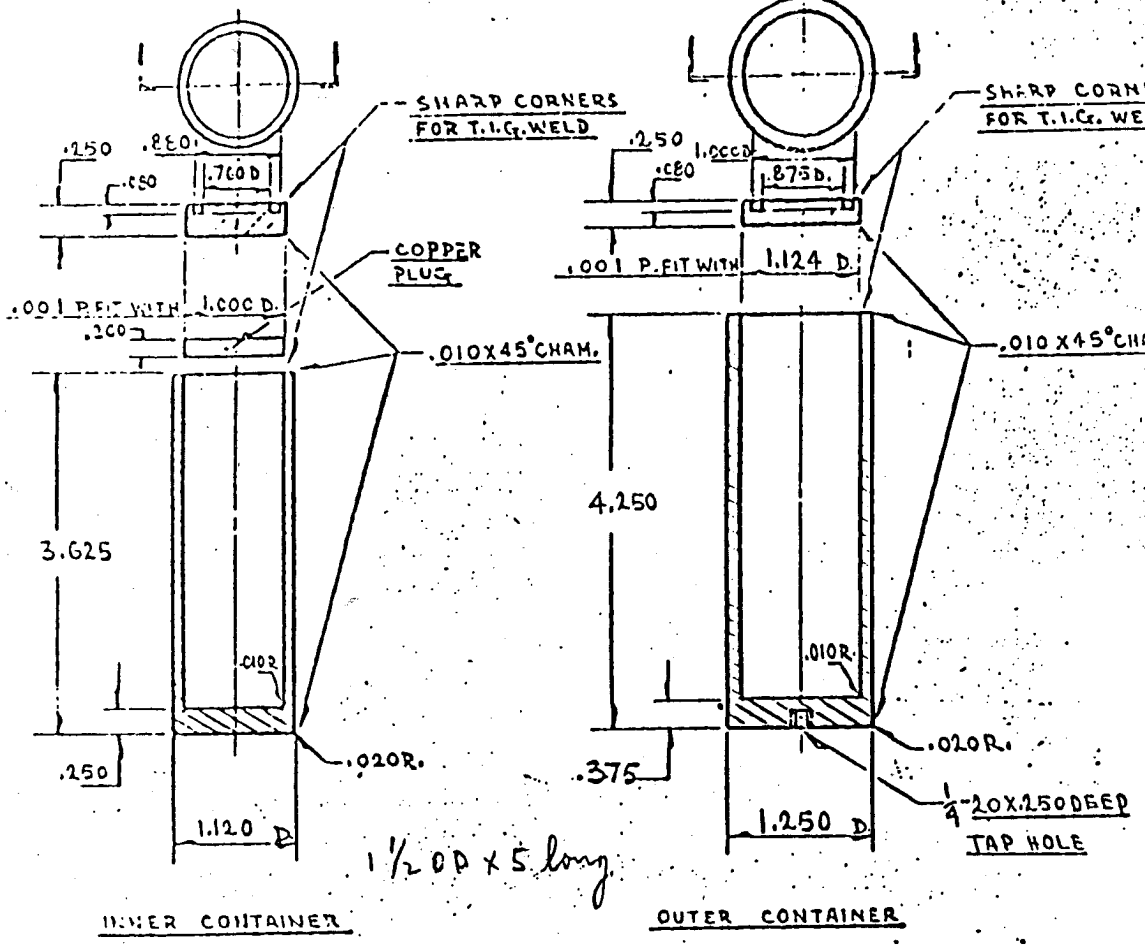
This certificate is issued in accordance with paragraph(s) 804 of the IAEA Regulations and Section 173.476 of Title 49 of the Code of Federal Regulations, in response to the February 18, 2025 petition by Department of Energy, Washington, DC, and in consideration of other information on file in this Office.

Certified By:

for William Schoonover
Associate Administrator for Hazardous Materials Safety

February 27, 2025
(DATE)

Revision 8 - Issued to extend the expiration date and to issue the certificate to the 2018 edition of SSR-6.



NOTE:

1. DIA. CLEARANCE BETWEEN INNER AND OUTER CONTAINER .004 NOMINAL .002 MINIMUM.
2. WELD PENETRATION .050 DESIR 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 confidential, and require his (its) employees to keep confidential, the information contained hereon.

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

MATERIAL 304 S.STL. & AS NOTED

APPD		
APPD		
APPD	[illegible]	8-14-72
APPD	E.J.Q.	8-11-72
CHECKED		
DRAWN	A. R.	8-11-72
SIGNATURE		DATE

MONSANTO RESEARCH CORPORATION
DAYTON LABORATORY
DAYTON, OHIO

Am-Li NEUTRON SOURCE (5×10^5 n/s)

STANDARD DRAWING

DWG NO. SK 195-240

SCALE · WT CALC ACT. · COOC IDENT NO.

SHEET OF

U.S. Department of
Transportation

**Pipeline and
Hazardous Materials
Safety Administration**

**East Building, PHH-23
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Washington, D.C. 20590**

CERTIFICATE NUMBER: USA/0080/S

ORIGINAL REGISTRANT(S):

Department of Energy
U.S. Department of Energy
1000 Independence Ave, SW
EM-60
Washington, DC, 20585
USA