



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/0242/S, REVISION 9

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 Model 24154-C source manufactured prior to December 10, 2001.
2. Source Description - The source is a tungsten inert gas welded double encapsulation constructed of Type 304 stainless steel. It is in the form of a cylindrical sleeve with an outside diameter of 35.0 mm (1.375 in.), an inside diameter of 28.1 mm (1.105 in.), and a height of 12.7 mm (0.500 in.). Sources are to be manufactured in accordance with attached Monsanto Research Corporation Drawing No. C24154-AC00, Rev. 0.
3. Radioactive Contents - Not more than 0.037 TBq (1.0 Ci) of Americium-241 as an oxide mixed with powdered neutron producing target material.
4. 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.

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/0242/S, REVISION 9

5. Expiration Date - This certificate expires on March 31, 2031. 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, 2026 petition by Schlumberger, Sugar Land, TX, and in consideration of other information on file in this Office.

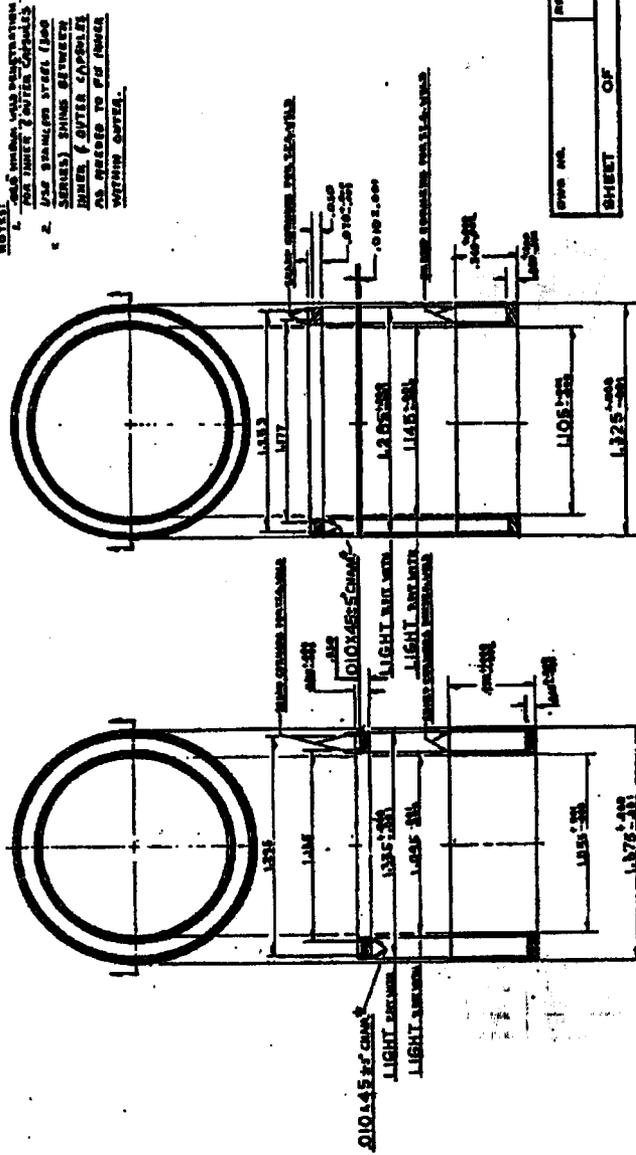
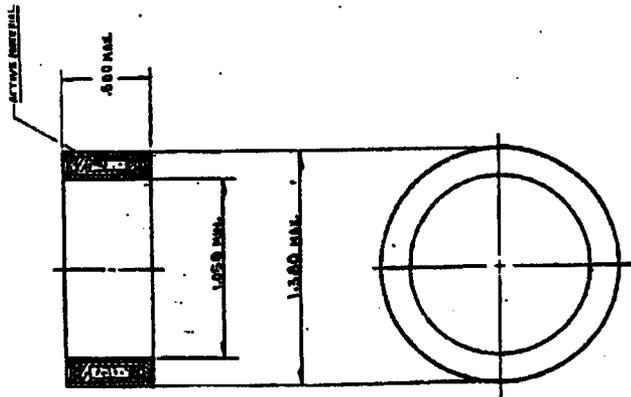
Certified By:



William Quade
Acting Associate Administrator for
Hazardous Materials Safety

March 11, 2026
(DATE)

Revision 9 - Issued to endorse to 2018 edition of the IAEA Regulations for the Safe Transport of Radioactive Material, SSR-6 (Rev. 1) and to extend the expiration date.



NOTES:
 1. ALL DIMENSIONS UNLESS OTHERWISE SPECIFIED ARE IN INCHES.
 2. USE STANDARD STEEL (AISI SERIES) SHIMS BETWEEN RINGS (OUTER CARBIDE) AS REQUIRED TO FIT WITHIN WITHIN OUTER.

DATE: _____
 SHEET _____ OF _____

OUTER CARBIDE

INNER CARBIDE

NOTICE
 This is the property of Monsanto Research Corporation and shall be returned without repair or replacement, at any time, for return by a copy of the completion of the work, to the person in the possession of the receipt of work, or property representative, or person, or other person to whom the property was loaned, or to whom the work was done. This receipt may be made or signed by and require in full compliance to keep the property in the possession of the person to whom it was loaned.

VISUAL INSPECTION ACCEPTABLE

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	FRACCTIONS	INCHES	DATE
TOLERANCES	± .001	± .002	± .005
ALL SURFACES	± .001	± .002	± .005
MATERIAL	303-316L SS	303-316L SS	303-316L SS
FINISH	20	20	20

APPROVED	DATE
MAN	DATE
DATE	DATE

MONSANTO RESEARCH CORPORATION
 BAYVIEW PLANT
 BAYVIEW, OHIO

RING-NEUTRON SOURCE
 MODEL-24154-C

SCALE: 2X (WT. ACT.)

DATE: 9/25/80

SHEET 10 OF 10

B

A



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Washington, D.C. 20590

CERTIFICATE NUMBER: USA/0242/S-96

ORIGINAL REGISTRANT(S) :

Schlumberger
300 Schlumberger Drive
MD-225
Sugar Land, TX, 77478
USA