

U.S. Department of Transportation

IAEA CERTIFICATE OF COMPETENT AUTHORITY SPECIAL FORM RADIOACTIVE MATERIALS

Pipeline and Hazardous Materials Safety Administration CERTIFICATE USA/0043/S-96, REVISION 15

This certifies that the sources described have 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. <u>Source Identification</u> Monsanto Research Corporation Model 2720 Series.
- 2. <u>Source Description</u> The sources described by this certificate are cylindrical double encapsulations constructed of stainless steel with welded closures and with the dimensions indicated in the following table:

Model Number	Outside Diameter	Length
	mm (inches)	mm (inches)
2721 A, B, or C	12.7 (0.50)	12.7 (0.50)
2722 A, B, or C	12.7 (0.50)	17.8 (0.70)
2723 A, B, or C	19.1 (0.75)	22.1 (0.87)
2724 A, B, or C	25.4 (1.00)	28.4 (1.12)
2725 A, B, or C	25.4 (1.00)	38.1 (1.50)
2726 A, B, or C	25.4 (1.00)	50.8 (2.00)
2727 A, B, or C	38.1 (1.50)	63.5 (2.50)
2728 A, B, or C	38.1 (1.50)	88.9 (3.50)
2729 C	38.1 (1.50)	53.3 (2.10)

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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The sources authorized by this certificate are only those that have been manufactured prior to January 1, 1985 in accordance with Monsanto Research Corporation Drawing Numbers: B2721-AA00, B2722-AA00, B2723-AA00, B2724-AA00, B2725-AA00, B2726-AA00, B2727-AA00, B2728-AA00, A2721-BA00, A2722-BA00, A2723-BA00, A2724-BA00, A2725-BA00, A2726-BA00, A2727-BA00, A2728-BA00, C2721-CA00, C2722-CA00, C2723-CA00, C2724-CA00, C2725-CA00, C2726-CA00, C2727-CA00, C2728-CA00, or C2729-CA00. Monsanto Research Corporation Drawing Numbers C2728-CA00 and C2729-CA00 are attached as examples.

3. <u>Radioactive Contents</u> - These sources consist of Americium-241 or Plutonium-238 as oxide in powder form mixed with a neutron producing target material (Be, B, Li, F, or C) in powder form. The maximum activity of each is as indicated in the following table:

Model Number	Maximum TBq (Ci)	Model Number	Maximum TBq (Ci)
	Content		Content
2721 A	0.01 (0.3)	2726 В	0.59 (16)
2722 A	0.04 (1)	2727 В	1.74 (47)
2723 A	0.11 (3)	2728 В	2.78 (75)
2724 A	0.19 (5)	2721 C	0.01 (0.3)
2725 A	0.31 (8.5)	2722 C	0.05 (1.3)
2726 A	0.44 (12)	2723 C	0.09 (2.35)
2727 A	0.22 (6)	2724 C	0.21 (5.6)
2728 A	0.37 (10)	2725 C	0.42 (11.4)
2721 В	0.01 (0.4)	2726 C	0.65 (17.7)
2722 В	0.05 (1.4)	2727 C	1.78 (48)
2723 В	0.11 (2.9)	2728 C	2.89 (78)
2724 В	0.22 (6)	2729 C	1.28 (34.7)
2725 B	0.37 (10)	_	

- 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.
- 5. Expiration Date This certificate expires on November 30, 2026. Previous editions which have not reached their expiration date may continue to be used.

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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 October 11, 2021 petition by J.L. Shepherd & Associates, San Fernando, CA, and in consideration of other information on file in this Office.

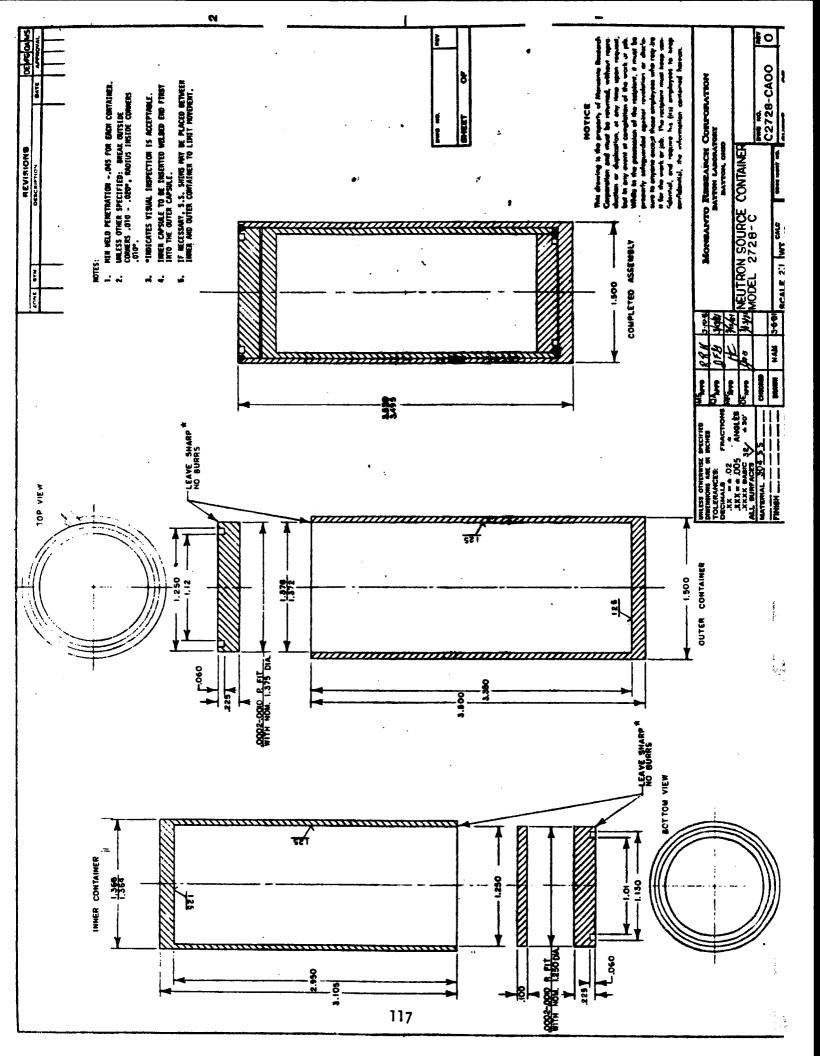
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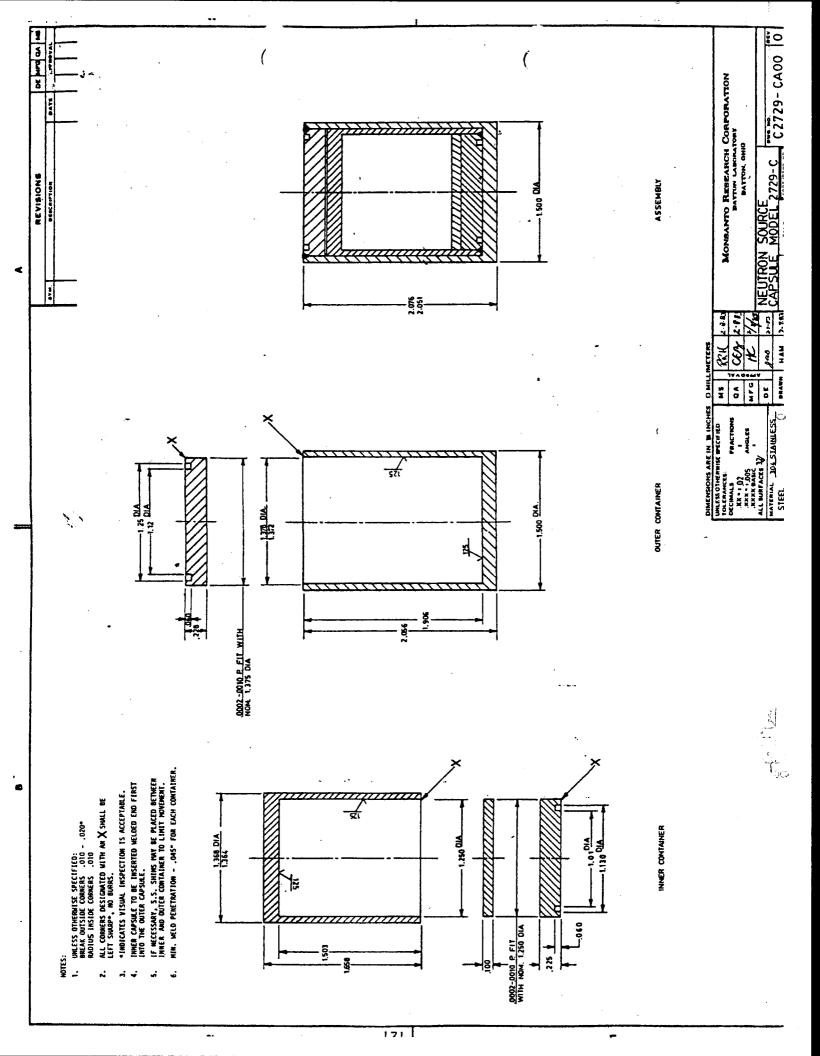
William Schoonover

Associate Administrator for Hazardous Materials Safety

November 22, 2021 (DATE)

Revision 15 - Issued to extend the expiration date.







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Pipeline and Hazardous Materials Safety Administration

CERTIFICATE NUMBER: USA/0043/S-96

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