

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

U.S. Department of Transportation

IAEA CERTIFICATE OF COMPETENT AUTHORITY SPECIAL FORM RADIOACTIVE MATERIALS

Pipeline and CERTIFICATE USA/0074/S-96, REVISION 10 Hazardous Materials Safety Administration

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.

- <u>Source Identification</u> 3M Model 4F6P. All sources authorized by this certificate shall have been manufactured prior to October 14, 1991.
- 2. <u>Source Description</u> The source is a welded stainless steel double encapsulation. The diameter of the outer capsule is 12.7 mm (0.5 in.) and the diameter of the inner capsule is 3.17 mm (0.125 in.). The overall length ranges from 63.5 mm (2.5 in.) to 1867 mm (73.5 in.). The active length of the radioactive contents is 38.1 mm (1.5 in.) less than the overall length. The source shall be manufactured in accordance with attached 3M Drawing No. 12-1921-0855-8.
- 3. <u>Radioactive Contents</u> No more than 0.37 TBq (10 Ci) of Cesium-137 in the form of 3M Brand Radiating Ceramic Microspheres. The activity per unit length in the inner capsule is uniform, and ranges from small values up to approximately 1.17 GBq/mm (0.8 Ci/in.).
- 4. <u>Management System Activities</u> 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.

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

¹ "Regulations for the Safe Transport of Radioactive Material, 2012 Edition, No. SSR-6" published by the International Atomic Energy Agency (IAEA), Vienna, Austria.

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

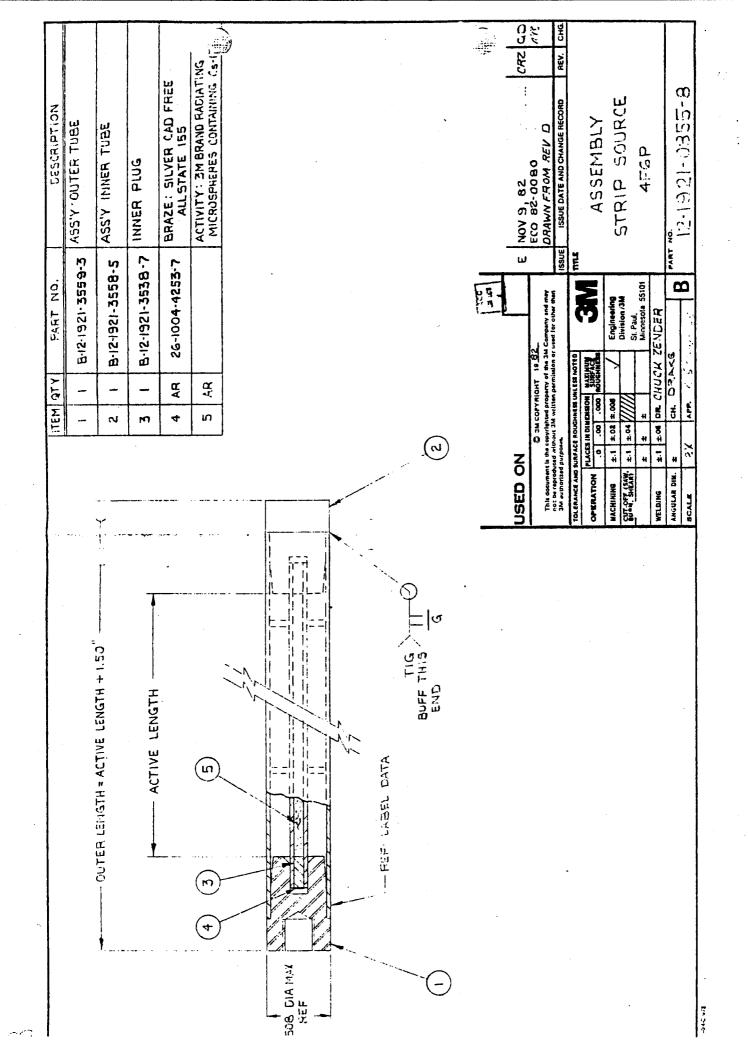
This certificate is issued in accordance with paragraph(s) 804 of the IAEA Regulations and Section 173.476 of Title 49 of the Code of Federal Regulations, in response to the October 11, 2021 petition by J.L. Shepherd & Associates, San Fernando, CA, and in consideration of other information on file in this Office.

Certified By:

November 22, 2021 (DATE)

William Schoonover Associate Administrator for Hazardous Materials Safety

Revision 10 - Issued to extend the expiration date.





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Pipeline and Hazardous Materials Safety Administration

CERTIFICATE NUMBER: USA/0074/S-96

ORIGINAL REGISTRANT(S):

J.L. Shepherd & Associates 1010 Arroyo Ave. San Fernando, CA, 91340-1822 USA

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