



U.S. Department
of Transportation
**Pipeline and
Hazardous Materials
Safety Administration**

**IAEA CERTIFICATE OF COMPETENT AUTHORITY
SPECIAL FORM RADIOACTIVE MATERIALS
CERTIFICATE USA/0817/S-96, REVISION 1**

East Building, PHH-23
1200 New Jersey Avenue Southeast
Washington, D.C. 20590

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 - ORNL Pu ZipCan.
2. Source Description - An equilateral triangle shaped single encapsulation made of a titanium inner container and a stainless steel outer encapsulation that is tungsten inert gas seal welded. Approximate exterior dimensions are 57 mm (2.24 in.) on each edge and 11 mm (0.43 in.) thick. Construction shall be in accordance with attached ORNL Drawing No. SK-NMP-2015121-01, Rev. 0.
3. Radioactive Contents - No more than 12.7 GBq (343 mCi) of Plutonium-238, 4.62 GBq (125 mCi) of Plutonium-239, 16.9 GBq (456 mCi) of Plutonium-240, 76.4 GBq (2.06 Ci) of Plutonium-241, 302 MBq (8.16 mCi) of Plutonium-242, and 13.5 kBq (364 nCi) of Plutonium-244. The Pu-238, Pu-239, Pu-240, Pu-241, Pu-242, and Pu-244 are in solid oxide form and are embedded in zirconium felt. The sum of the mass fractions must be no more than 2.01 grams.
4. Quality Assurance - Records of Quality Assurance activities required by Paragraph 310 of the IAEA regulations¹ 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 applicable requirements of Subpart H of 10 CFR 71.
5. Expiration Date - This certificate expires on August 31, 2021. On April 30, 2017, this certificate supersedes all previous revisions of USA/0817/S-96.

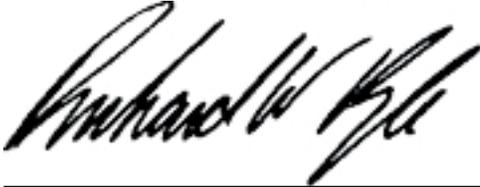
¹ "Regulations for the Safe Transport of Radioactive Material, 1996 Edition (Revised), No. TS-R-1 (ST-1, Revised)," published by the International Atomic Energy Agency (IAEA), Vienna, Austria.

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

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This certificate is issued in accordance with paragraph 804 of the IAEA Regulations and Section 173.476 of Title 49 of the Code of Federal Regulations, in response to the February 01, 2017 petition by Department of Energy, Washington, DC, and in consideration of other information on file in this Office.

Certified By:



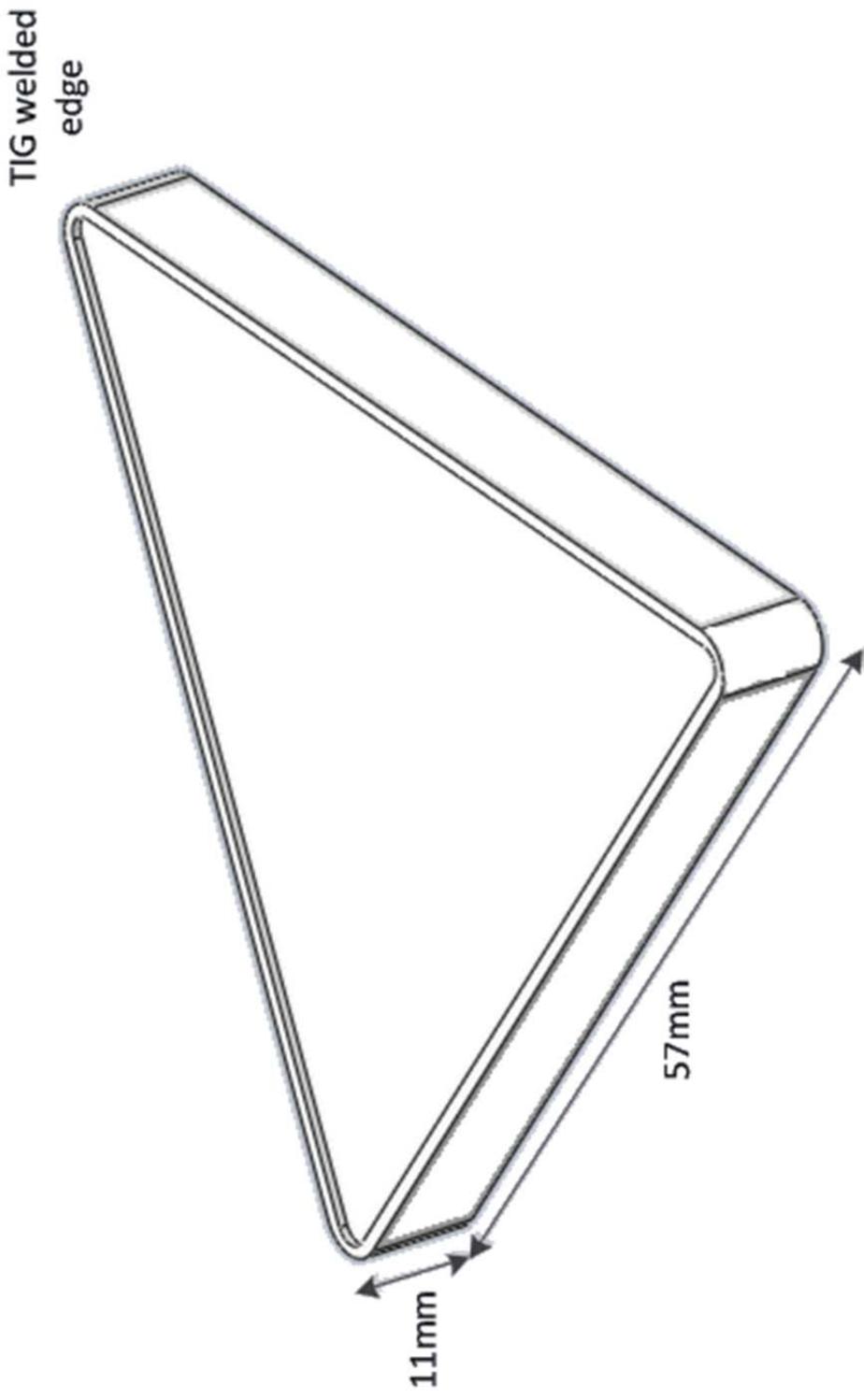
Feb 17 2017

(DATE)

 William Schoonover

Acting Associate Administrator for Hazardous Materials Safety

Revision 1 - Issued to revise the authorized radioactive contents.



Name: ORNL Pu ZipCan
ORNL Drawing: SK-NMP-2015121-01 , Rev. 0



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ORIGINAL REGISTRANT(S):

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