

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 andCERTIFICATE USA/0842/S-96, REVISION 0Hazardous MaterialsSafety 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 Agency<sup>1</sup> and the United States of America<sup>2</sup> for the transport of radioactive material.

- 1. Source Identification ORNL Am ZipCan.
- 2. <u>Source Description</u> 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. N3E020995A576, Revision A.
- 3. <u>Radioactive Contents</u> No more than 2.6E-4 TBq (7.03E-3 Ci) of Americium-241. The radioactive content is americium oxide embedded in zirconium felt. The maximum mass of americium must be no more than 2 milligrams (Am element weight).

Other isotopes in the decay chain of americium may be present and must be accounted for in the mixture of nuclides for A1 and A2 calculations as required by Sections 173.433 of Title 49 of the Code of Federal Regulations.

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

<sup>&</sup>lt;sup>2</sup> Title 49, Code of Federal Regulations, Parts 100-199, United States of America.

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- 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.
- 5. <u>Expiration Date</u> This certificate expires on April 30, 2027. Previous editions which have not reached their expiration date may continue to be used.

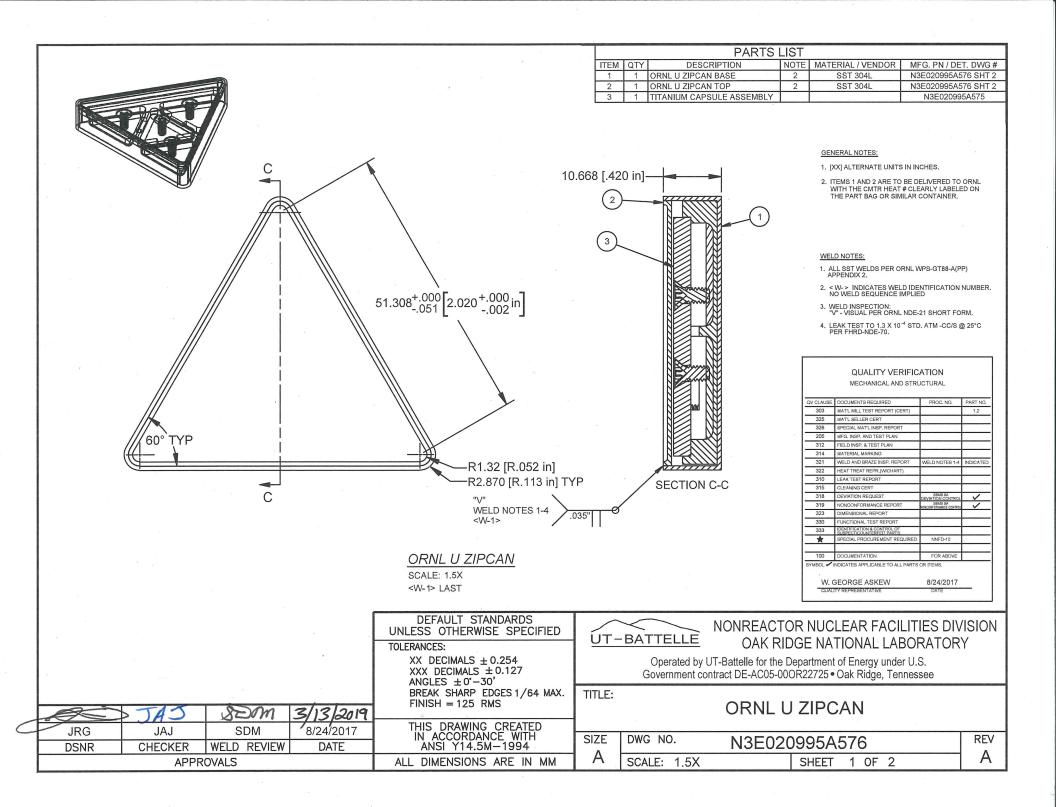
This certificate is issued in accordance with paragraph(s) 804 of the IAEA Regulations and Section 173.476 of Title 49 of the Code of Federal Regulations, in response to the February 7, 2022 petition by Department of Energy, Washington, DC, and in consideration of other information on file in this Office.

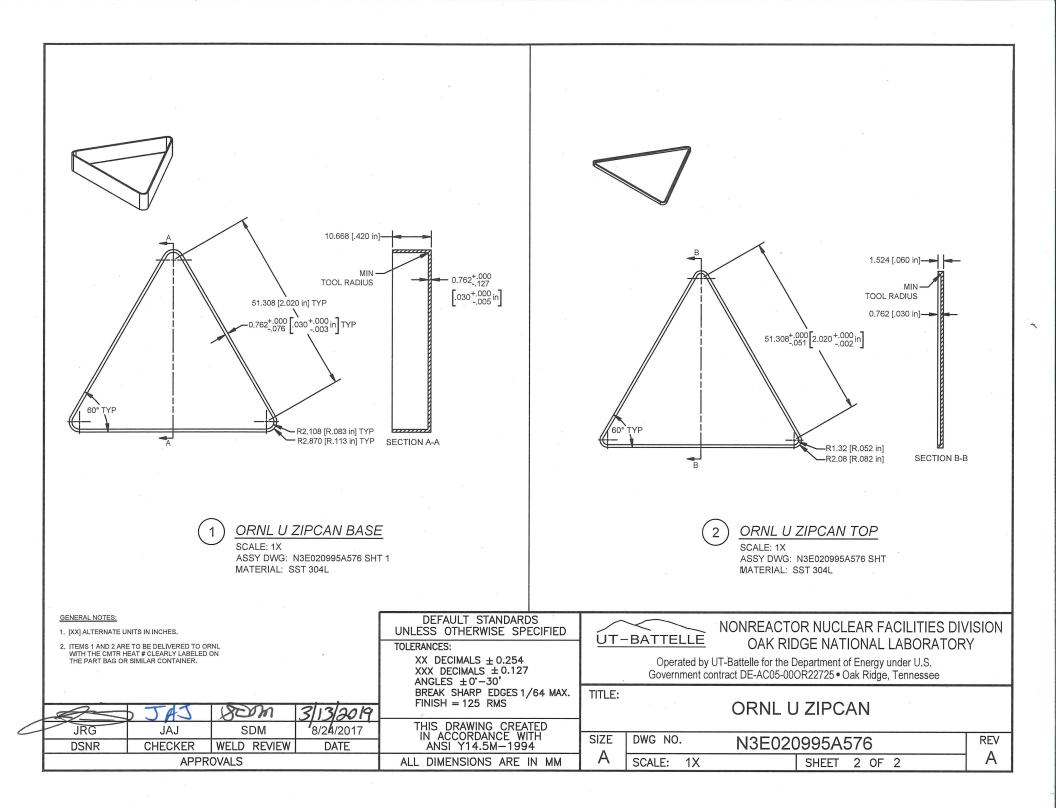
Certified By:

April 13, 2022 (DATE)

William Schoonover Associate Administrator for Hazardous Materials Safety

Revision 0 - Original Issue.







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CERTIFICATE NUMBER: USA/0842/S-96

## ORIGINAL REGISTRANT(S):

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