



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/0783/S-96, REVISION 2

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 - U.S. Department of Energy 10 kg HEU Equivalent Radiological Signature Training Device.
2. Source Description - Spherical single encapsulation made of Titanium. Approximate outer dimension is 124.61 mm (4.91 in.) in diameter. Wall thickness is approximately 2.24 mm (0.09 in.). Construction shall be in accordance with attached UT-Battelle Drawing #20120719_001, Rev. 0.
3. Radioactive Contents - Solid uranium metal with maximum radionuclide activities of:

Uranium-233 - 6.91 MBq (0.187 mCi);
Uranium-234 - 394.22 MBq (10.655 mCi);
Uranium-235 - 12.52 MBq (0.338 mCi);
Uranium-236 - 1.77 MBq (0.048 mCi); and
Uranium-238 - 13.47 MBq (0.364 mCi).
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, 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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5. Expiration Date - This certificate expires on March 31, 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 March 4, 2022 petition by Department of Energy, Washington, DC, and in consideration of other information on file in this Office.

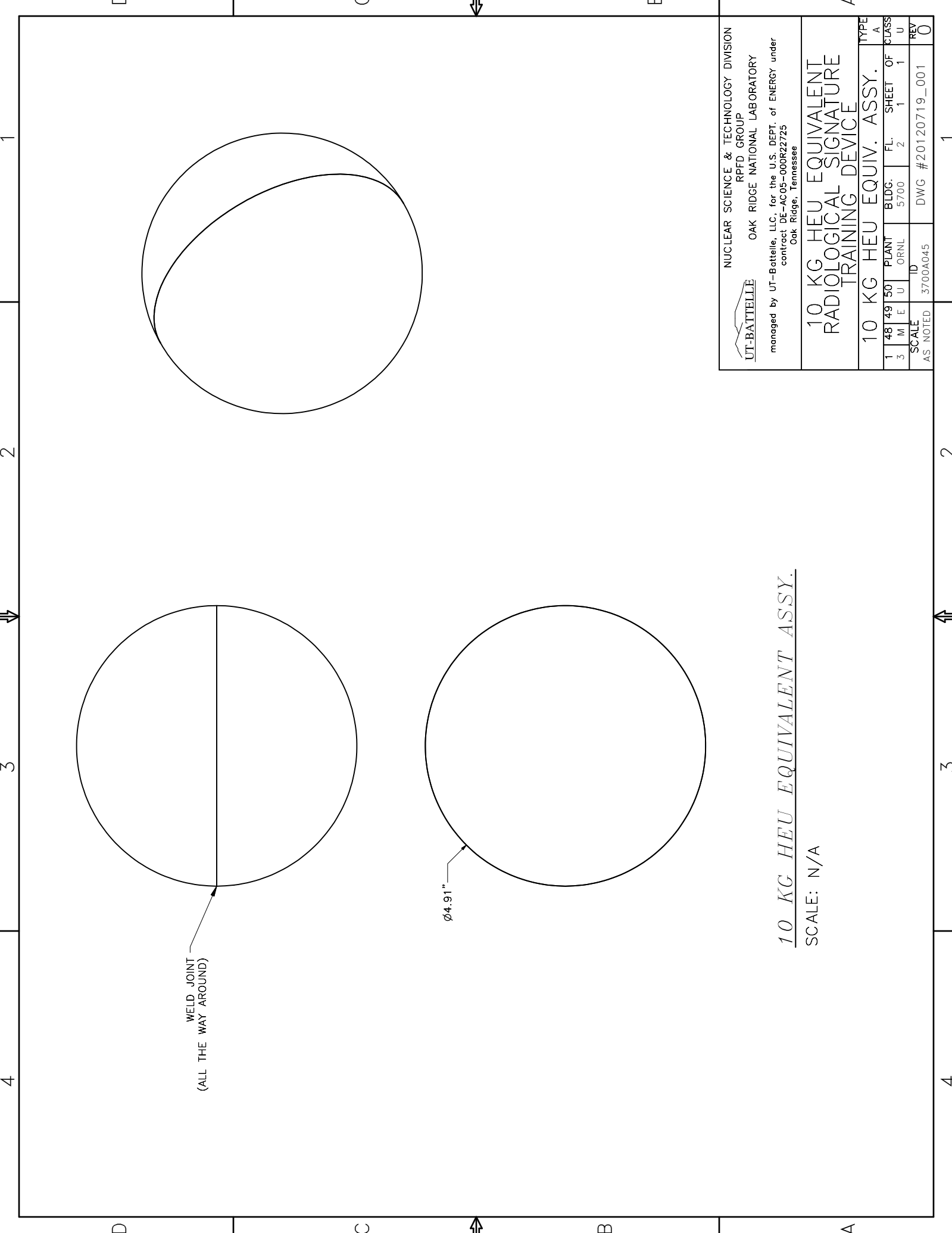
Certified By:



April 04, 2022
(DATE)

 William Schoonover
Associate Administrator for Hazardous
Materials Safety

Revision 2 - Issued to extend the expiration date.




WELD JOINT
(ALL THE WAY AROUND)

Ø4.91"

10 KG HEU EQUIVALENT ASSY.

SCALE: N/A


 NUCLEAR SCIENCE & TECHNOLOGY DIVISION
 RPFD GROUP
 OAK RIDGE NATIONAL LABORATORY
 managed by UT-Battelle, LLC, for the U.S. DEPT. of ENERGY under
 contract DE-AC05-00OR22725
 Oak Ridge, Tennessee

10 KG HEU EQUIVALENT
 RADIOLOGICAL SIGNATURE
 TRAINING DEVICE

SCALE		ID	PLANT	BLDG.	FL.	SHEET OF	TYPE	
1	48	50	ORNL	5700	2	1	A	
3	M	U	ORNL	5700	2	1	U	
AS NOTED							REV	
3700A045							DWG #20120719_001	O



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CERTIFICATE NUMBER: USA/0783/S-96

ORIGINAL REGISTRANT(S) :

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