



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/0782/S-96, REVISION 3

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 Highly Enriched Uranium (HEU) Test Object.
2. Source Description - Spherical single encapsulation made of CP3 Titanium. Approximate outer dimension is 124.58 mm (4.9 in.) in diameter. Wall thickness is approximately 2.29 mm (0.09 in.). Construction shall be in accordance with attached UT-Battelle Drawing No. 20101202_002, Rev. 0.
3. Radioactive Contents - Solid uranium metal with maximum radionuclide activities of:

Uranium-233 2.063 MBq (0.056 mCi);
Uranium-234 137.262 MBq (3.710 mCi);
Uranium-235 4.127 MBq (0.112 mCi);
Uranium-236 1.172 MBq (0.032 mCi); and
Uranium-238 3.376 MBq (0.091 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.

CERTIFICATE USA/0782/S-96, REVISION 3


5. Expiration Date - This certificate expires on May 31, 2025. 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 April 15, 2020 petition by Department of Energy, Washington, DC, and in consideration of other information on file in this Office.

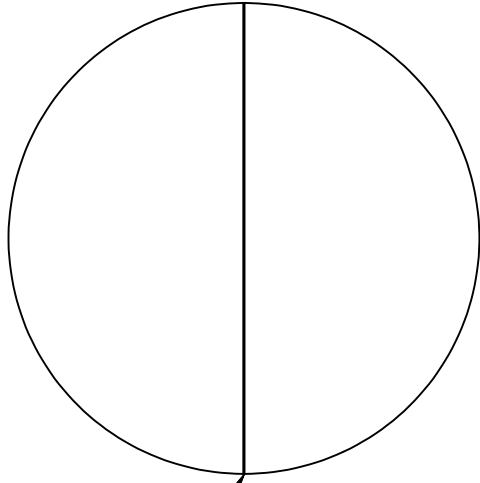
Certified By:



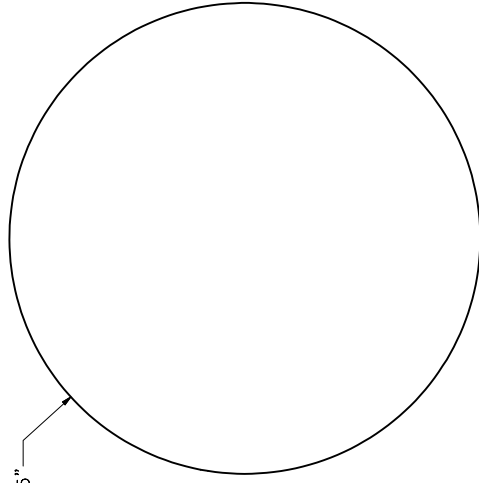
May 13, 2020
(DATE)

 William Schoonover
Associate Administrator for Hazardous
Materials Safety

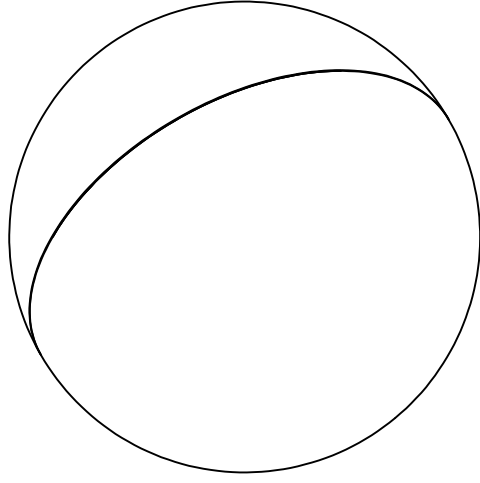
Revision 3 - Issued to extend the expiration date.



WELD JOINT
(ALL THE WAY AROUND)



Ø4.905"



HEU TEST OBJECT ASSY.

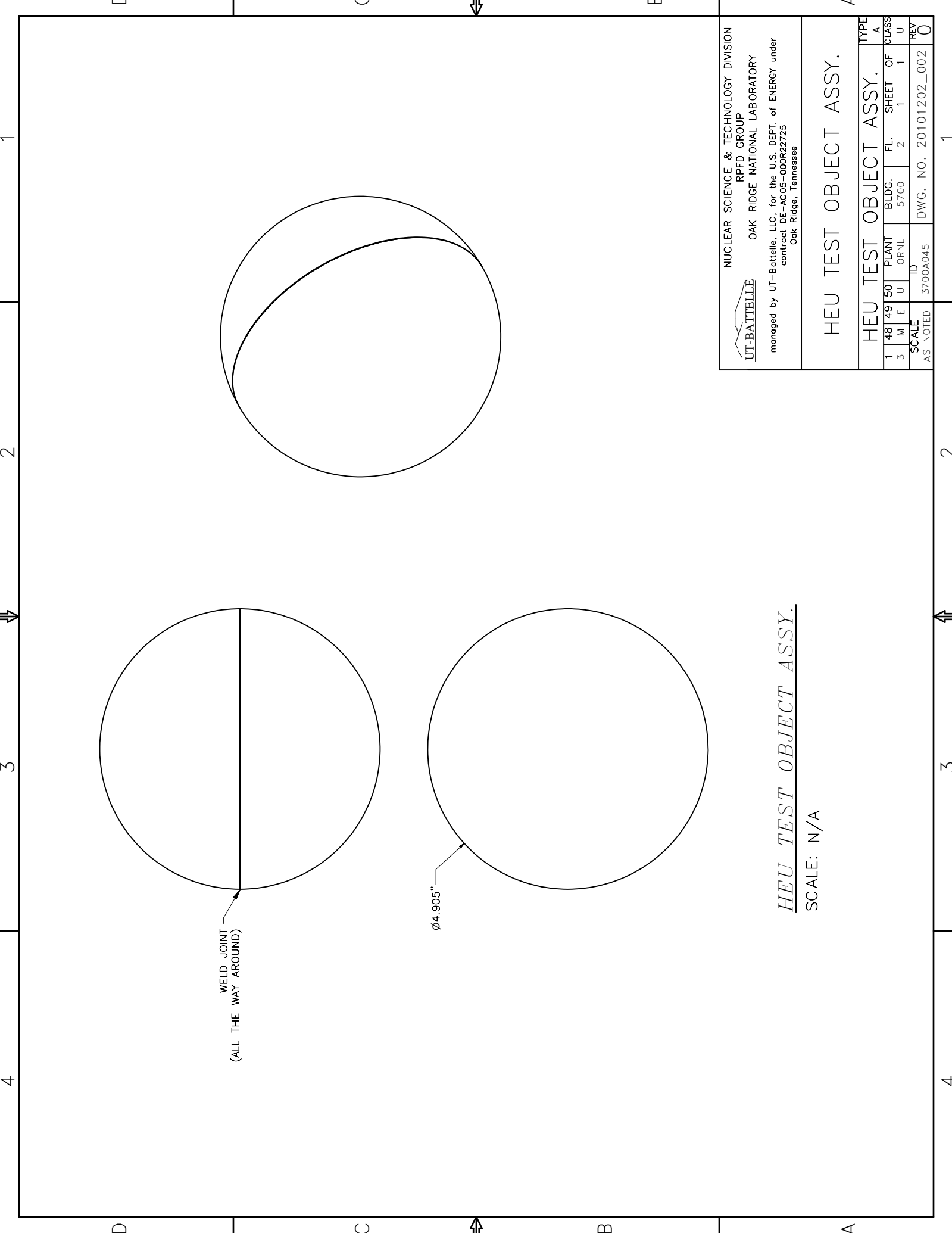
SCALE: N/A



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

HEU TEST OBJECT ASSY.

HEU TEST OBJECT ASSY.				TYPE
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CERTIFICATE NUMBER: USA/0782/S-96

ORIGINAL REGISTRANT(S) :

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