



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

**IAEA CERTIFICATE OF COMPETENT AUTHORITY
SPECIAL FORM RADIOACTIVE MATERIALS
CERTIFICATE USA/0782/S-96, REVISION 2**

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 - 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. 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, 2020.

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 August 12, 2015 petition by Department of Energy, Washington, DC, and in consideration of other information on file in this Office.

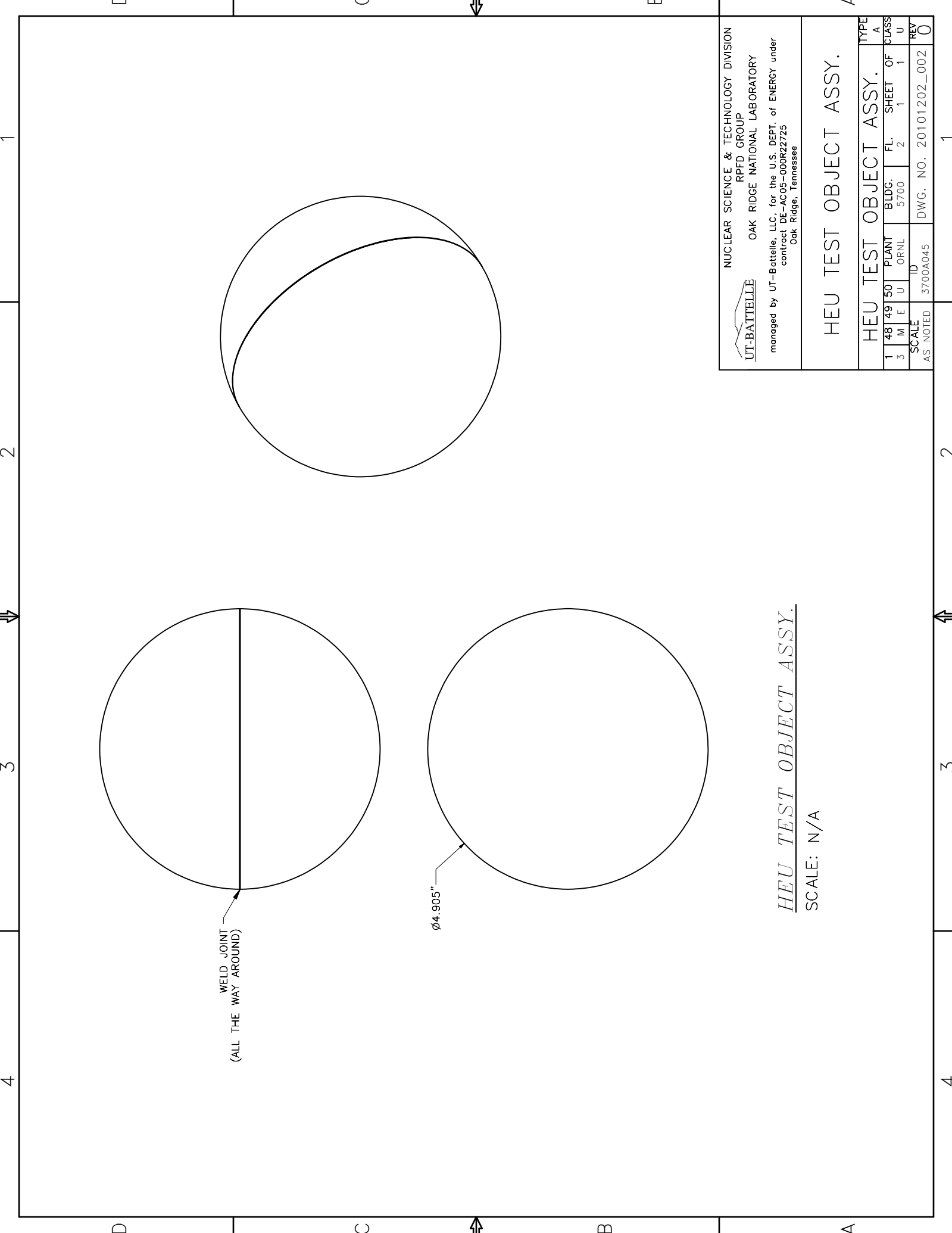
Certified By:




Dr. Magdy El-Sibaie
Associate Administrator for Hazardous Materials Safety

Aug 24 2015
(DATE)

Revision 2 - Issued to extend the expiration date.



HEU TEST OBJECT ASSY.
 SCALE: N/A


 NUCLEAR SCIENCE & TECHNOLOGY DIVISION
 RFPD 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.				TYPE
1	48	49	50	A
3	M	E	U	CLASS
				U
SCALE	ID	PLANT	BLDG.	FL.
AS NOTED	3700A045	ORNL	5700	2
				SHEET OF
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				DWG. NO. 20101202_002

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ORIGINAL REGISTRANT(S):

Dr. James M. Shuler
Manager, Packaging Certification Program
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