

U.S. NUCLEAR REGULATORY COMMISSION

MATERIALS LICENSE

Pursuant to the Atomic Energy Act of 1954, as amended, the Energy Reorganization Act of 1974 (Public Law 93-438), and Title 10, Code of Federal Regulations, Chapter I, Parts 30, 31, 32, 33, 34, 35, 36, 37, 39, 40, 70 and 71, and in reliance on statements and representations heretofore made by the licensee, a license is hereby issued authorizing the licensee to receive, acquire, possess, and transfer byproduct, source, and special nuclear material designated below; to use such material for the purpose(s) and at the place(s) designated below; to deliver or transfer such material to persons authorized to receive it in accordance with the regulations of the applicable Part(s). This license shall be deemed to contain the conditions specified in Section 183 of the Atomic Energy Act of 1954, as amended, and is subject to all applicable rules, regulations, and orders of the Nuclear Regulatory Commission now or hereafter in effect and to any conditions specified below.

Licensee 1. Mid Continent Testing Laboratories, Inc. 2. P.O. Box 3388 Rapid City, South Dakota 57702		In accordance with letter dated January 27, 2015 3. License number 40-29306-01 is amended in its entirety to read as follows: 4. Expiration date October 31, 2018 5. Docket No. 030-37799 Reference No.
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6. Byproduct, source, and/or special nuclear material	7. Chemical and/or physical form	8. Maximum amount that licensee may possess at any one time under this license
A. Barium-133	A. Any	A. 1 microcurie
B. Cesium-134	B. Any	B. 1 microcurie
C. Cesium-137	C. Any	C. 1 microcurie
D. Cobalt-60	D. Any	D. 1 microcurie
E. Strontium-90	E. Any	E. 0.1 microcurie
F. Yttrium-90	F. Any	F. 1 microcurie
G. Zinc-65	G. Any	G. 1 microcurie
H. Americium-241	H. Any	H. 1 microcurie
I. Radium-226	I. Any	I. 1 microcurie
J. Lead-210	J. Any	J. 1 microcurie
K. Radium-228	K. Any	K. 1 microcurie
L. Byproduct material as defined in 10 CFR 40.4	L. Uranium mill tailings or waste	L. 68 kilograms

9. Authorized use:

A. through K. To be used in calibration of analytical instrumentation and as reference standards during sample analysis of solids, drinking water, and groundwater.

L. To be used in environmental sample analysis.

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SUPPLEMENTARY SHEET**License Number
40-29306-01Docket or Reference Number
030-37799

Amendment No. 04

CONDITIONS

10. Licensed material shall be stored or used only at the facilities of the licensee located at 2381 South Plaza Drive, Rapid City, South Dakota.
11. Licensed material shall only be used by, or under the supervision of, Dean Aurand, or Eric Fuehrer.
12. The Radiation Safety Officer (RSO) for this license is Eric Fuehrer.
13. The licensee shall conduct a physical inventory every six months, or at other intervals approved by the U.S. Nuclear Regulatory Commission, to account for all licensed material received and possessed under the license. Records of inventories shall be maintained for 5 years from the date of each inventory and shall include the radionuclides, quantities, manufacturer's name and model numbers, and the date of the inventory.
14. Licensed material shall not be used in or on human beings except as provided otherwise by specific condition of this license.
15. The licensee shall not use licensed material in field applications where activity is released except as provided otherwise by specific conditions of this license.
16. This license does not authorize commercial distribution of licensed material.
17. The licensee is authorized to transport licensed material only in accordance with the provisions of 10 CFR Part 71, "Packaging and Transportation of Radioactive Material."
18. The licensee is authorized to hold byproduct material with a physical half-life of less than or equal to 120 days for decay-in-storage before disposal without regard to its radioactivity if the licensee:
 - A. Monitors byproduct material at the surface before disposal and determines that its radioactivity cannot be distinguished from the background radiation level with an appropriate radiation detection survey meter set on its most sensitive scale and with no interposed shielding; and
 - B. Removes or obliterates all radiation labels, except for radiation labels on materials that are within containers and that will be managed as biomedical waste after they have been released from the licensee; and
 - C. Maintains records of the disposal of licensed materials for 3 years. The record must include the date of the disposal, the survey instrument used, the background radiation level, the radiation level measured at the surface of each waste container, and the name of the individual who performed the disposal.

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19. Except as specifically provided otherwise in this license, the licensee shall conduct its program in accordance with the statements, representations, and procedures contained in the documents, including any enclosures, listed below. The U.S. Nuclear Regulatory Commission's regulations shall govern unless the statements, representations, and procedures in the licensee's application and correspondence are more restrictive than the regulations.

- A. Application dated July 2, 2008 (ML082240651)
- B. Facsimile received July 30, 2008 (ML082340725)
- C. E-mail dated September 23, 2008 (ML082730854)



FOR THE U.S. NUCLEAR REGULATORY COMMISSION

/RA/Date: April 16, 2015

By:

Michelle Simmons, Health Physicist
Nuclear Materials Safety Branch B
Region IV
Arlington, Texas 76011-4511