

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	In accordance with letter dated October 3, 2016	
1. Department of the Army Corps of Engineers	3. License number 23-01544-10 is amended in its entirety to read as follows:	
2. P.O. Box 631	4. Expiration date July 31, 2023	
Vicksburg, Mississippi 39180-6199	5. Docket No. 030-05062 Reference No.	

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. Hydrogen-3	A. Any	A. 50 millicuries
B. Carbon-14	B. Any	B. 100 millicuries
C. Phosphorus-32	C. Any	C. 20 millicuries
D. Phosphorus-33	D. Any	D. 25 millicuries
E. Sulfur-35	E. Any	E. 25 millicuries
F. Chromium-51	F. Any	F. 1 millicurie
G. Iron-59	G. Any	G. 1 millicurie
H. Nickel-63	H. Any	H. 40 millicuries
I. Zinc-65	I. Any	I. 1 millicurie
J. Cadmium-109	J. Any	J. 1 millicurie
K. Tin-113	K. Any	K. 1 millicurie
L. Depleted Uranium	L. Any	L. 31 millicuries (200 pounds)

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9. Authorized Use:

- A. through K. Research and development as defined in 10 CFR 30.4; in laboratory tracer studies.
- L. Research and development as defined in 10 CFR 30.4

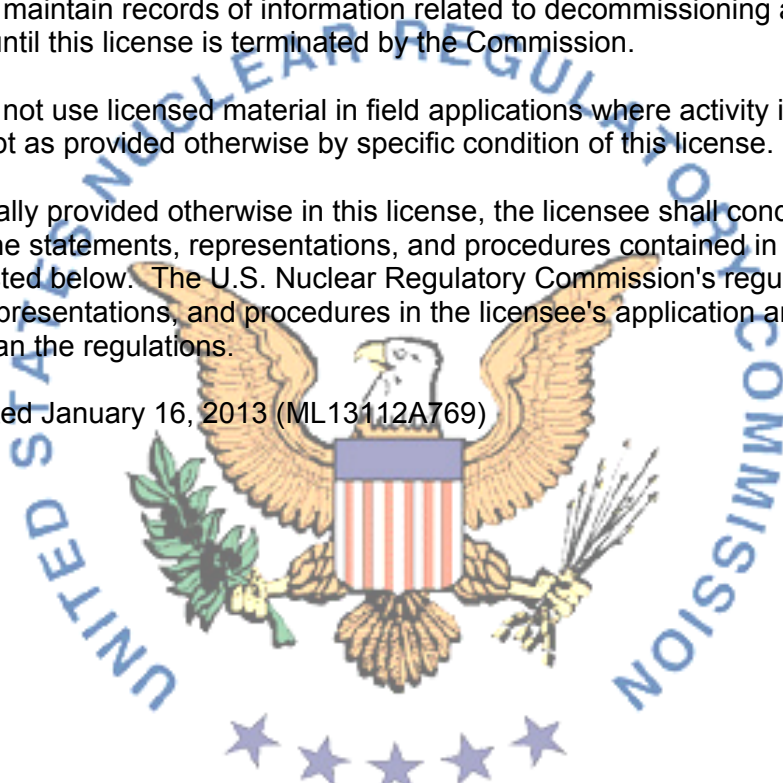
CONDITIONS

10. Licensed material shall be stored or used only at the licensee's facilities located at 3909 Halls Ferry Road, Vicksburg, Mississippi.
11. A. Licensed material in items 6.A. through 6.K. shall be used by or under the supervision of John H. Ballard, Anthony Bednar, Ph.D., Sandra M. Brasfield, Ph.D., Mark A. Chappell, Ph.D., Deborah R. Felt, John S. Furey, Cynthia L. Price, and Jeffrey A. Steevens, Ph.D.
- B. Licensed material in item 6.L shall be used by or under the supervision of John H. Ballard, Anthony Bednar, Ph.D., Mark A. Chappell, Ph.D., Deborah R. Felt, John S. Furey, and Cynthia L. Price.
- C. The Radiation Safety Officer for this license is Richard L. Hudson.
12. 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.
13. Radioactive waste generated shall be stored in accordance with the statements, representations and procedures included with the waste storage plan described in the licensee's application dated January 16, 2013.
14. The licensee shall not use licensed material in or on human beings except as provided otherwise by specific license condition.

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15. The licensee shall conduct a physical inventory every 6 months, or at other intervals approved by the U.S. Nuclear Regulatory Commission, to account for all sources and/or devices received and possessed under the license. Records of inventories shall be maintained for 3 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.
16. 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."
17. The licensee shall maintain records of information related to decommissioning as specified in 10 CFR 30.35(g) until this license is terminated by the Commission.
18. The licensee shall not use licensed material in field applications where activity is released to the environment except as provided otherwise by specific condition of this license.
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 January 16, 2013 (ML13112A769)



FOR THE U.S. NUCLEAR REGULATORY COMMISSION

/RA/

Date: January 9, 2017

By: _____

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Nuclear Materials Safety Branch B
Region IV
Arlington, Texas 76011-4511