

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. U.S. Army, McAlester Army Ammunition Plant 2. 1 C Tree Road McAlester, OK 74501-9002		In accordance with letter dated July 20, 2022; and email dated August 29, 2022, 3. License No.: SUB-9940 is amended in its entirety to read as follows:	4. Expiration Date: October 31, 2036 5. Docket No.: 040-38411 Reference No.:
6. Byproduct, source, and/or special nuclear material A. Uranium- depleted in Uranium-235	7. Chemical and/or physical form A. Any	8. Maximum amount that licensee may possess at any one time under this license A. 0.1 curies total	9. Authorized use A. For receipt, storage and use of depleted uranium (DU) during the processing, packaging and disposal of DU waste generated during cryofracture demilitarization of Area Denial Artillery Munitions (ADAM). For receipt, storage, and use incidental to any activity as follows: (1) Packaging and repackaging of waste for transport; and (2) Transport in packages or containers approved for use under the provisions of 10 CFR Part 71, for transfer to licensees authorized to receive the materials, in accordance with the terms and conditions of licenses issued by the NRC or an Agreement State.

**MATERIALS LICENSE
SUPPLEMENTARY SHEET**

License No.: SUB-9940

Docket or Reference No.:
040-38411

Amendment No. 1

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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 | 9. Authorized use |
| B. Any byproduct and/or source material with Atomic Numbers 1 through 103 | B. Sealed Sources | B. 10 millicuries total | B. For use in calibration and checking of the licensee's instruments. |



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040-38411**CONDITIONS**

10. Licensed material shall be used or stored at the licensee's facilities located at:
- A. Cryofracture facility, Road 4, Building 452, McAlester, Oklahoma, 74501-9002
 - B. Storage facility, Road F, 61FC208, McAlester, Oklahoma, 74501-9002
 - C. Storage facility, Road F, 71BT403, McAlester, Oklahoma, 74501-9002
 - D. Storage facility, Road F, Building 209, McAlester, Oklahoma, 74501-9002
11. The Radiation Safety Officer (RSO) for this license is Kimberly Taylor Brown.
12. Licensed material shall only be used by, or under the supervision of, individuals who have received the training described in the application dated March 31, 2021, and have been designated in writing by the Radiation Safety Officer. The licensee shall maintain records of individuals designated as users for 3 years following the last use of licensed material by the individual.
13. A. Sealed sources and detector cells shall be tested for leakage and/or contamination at intervals not to exceed the intervals specified in the certificate of registration issued by the U.S. Nuclear Regulatory Commission under 10 CFR 32.210 or by an Agreement State. In the absence of a registration certificate, sealed sources shall be tested for leakage and/or contamination at intervals not to exceed 6 months, or at such other intervals as specified.
- B. Notwithstanding Paragraph A of this Condition, sealed sources designed to primarily emit alpha particles shall be tested for leakage and/or contamination at intervals not to exceed 3 months.
- C. In the absence of a certificate from a transferor indicating that a leak test has been made within the intervals specified in the certificate of registration issued by the U.S. Nuclear Regulatory Commission under 10 CFR 32.210 or by an Agreement State, prior to the transfer, a sealed source received from another person shall not be put into use until tested and the test results received.

**MATERIALS LICENSE
SUPPLEMENTARY SHEET**

License No.: SUB-9940

Amendment No. 1

Docket or Reference No.:
040-38411

- D. Sealed sources need not be tested if they contain only hydrogen-3; or they contain only a radioactive gas; or the half-life of the isotope is 30 days or less; or they contain not more than 100 microcuries of beta- and/or gamma-emitting material or not more than 10 microcuries of alpha-emitting material.
- E. Sealed sources need not be tested if they are in storage and are not being used. However, when they are removed from storage for use or transferred to another person, and have not been tested within the required leak test interval, they shall be tested before use or transfer. No sealed source shall be stored for a period of more than 10 years without being tested for leakage and/or contamination.
- F. The leak test shall be capable of detecting the presence of 185 becquerels (0.005 microcuries) of radioactive material on the test sample. If the test reveals the presence of 185 becquerels (0.005 microcuries) or more of removable contamination, a report shall be filed with the U.S. Nuclear Regulatory Commission in accordance with 10 CFR 30.50(c)(2), and the source shall be removed immediately from service and decontaminated, repaired, or disposed of in accordance with Commission regulations.
- G. Analysis of leak test samples and/or contamination shall be performed by persons specifically licensed by the U.S. Nuclear Regulatory Commission or an Agreement State to perform such services. The licensee is authorized to collect leak test samples but not perform the analysis.
- H. Records of leak test results shall be kept in units of becquerels (microcuries) and shall be maintained for 3 years.
14. If approved by a Radiation Safety Officer specifically identified in this license, the licensee may take reasonable action in an emergency that departs from conditions in this license when the action is immediately needed to protect public health and safety and no action consistent with all license conditions that can provide adequate or equivalent protection is immediately apparent. The licensee shall notify the U.S. Nuclear Regulatory Commission Headquarters Operations Center at 301-816-5100 and the U.S. Nuclear Regulatory Commission Regional contact before, if practicable, and in any case immediately after taking such emergency action using the contact information specified in Appendix D of 10 CFR Part 20.
15. The licensee shall notify the U.S. Nuclear Regulatory Commission, using contact information in Appendix D of 10 CFR Part 20, in writing, at least 14 days before initiating activities under this license.

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SUPPLEMENTARY SHEET**

License No.: SUB-9940

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Docket or Reference No.:
040-38411

16. 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. This license condition applies only to those statements, representations, and procedures that are required to be submitted in accordance with the regulations. The U.S. Nuclear Regulatory Commission's regulations shall govern unless the statements, representations, and procedures in the licensee's application and correspondence impose on the licensee requirements that are more restrictive than or in addition to the regulations.
- A. Applications dated March 31, 2021 (ML21105A032) and May 6, 2021 (ML21130A657)
 - B. Letter dated June 30, 2021 with enclosures (ML21188A043)
 - C. Letter dated July 20, 2022 containing revisions to the original license application with enclosures (ML22201A263) and enclosures to email dated August 29, 2022 (ML22241A072)



FOR THE U.S. NUCLEAR REGULATORY COMMISSION

Date: August 29, 2022By: _____
Roberto J. Torres
Region IV