

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. Department of the Army 2. U.S. Army Yuma Proving Ground Yuma, Arizona 85365-9124	In accordance with letters dated September 14, 2015 and January 20, 2016 3. License number SMB-1411 is amended in its entirety to read as follows: 4. Expiration date March 31, 2022 5. Docket No. 040-08814 Reference No.
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6. Byproduct, source, and/or special nuclear material A. Natural thorium B. Natural uranium C. Depleted uranium	7. Chemical and/or physical form A. Any B. Any C. Metal	8. Maximum amount that licensee may possess at any one time under this license A. 2.2 millicuries B. 13.6 millicuries C. 36 curies
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9. Authorized Use:

A. and B. For use as calibration standards.

C. For receipt, storage, and use, involving the following activities:

(1) Research and development involving the design performance, test firing, and production acceptance of anti-armor military ammunitions.

(2) Research and development involving the study and analysis of corrosive properties and transport characteristics of penetrators.

CONDITIONS

10. A. Licensed material may be stored and/or used at the U.S. Army Yuma Proving Ground, Arizona, at the locations specified in the Table entitled "Depleted Uranium Usage Areas" contained in the application dated August 18, 2011.
- B. Licensed material identified in Item 6.C. contained in military ammunitions shall be fired only at Gun Positions 17a and 20, and the associated impact areas on the King of Arizona (KOFA) Firing Range within the U.S. Army Yuma Proving Ground, Arizona.
- C. Licensed material identified in Item 6.C. shall be used in Test Bed Area #1 (100 m. S.E. of Gun Position 20) and Test Bed Area #2 (S.E. corner of Firing Front and N. Boundary Road) on the King of Arizona (KOFA) Firing Range within the U.S. Army Yuma Proving Ground, Arizona.

**MATERIALS LICENSE
SUPPLEMENTARY SHEET**

License Number

SMB-1411

Docket or Reference Number

040-08814

Amendment No. 21

- D. Licensed material may be stored and/or used at the Environmental Radiological Monitoring laboratory in Building 2410, U.S. Army Yuma Proving Ground, Arizona, as described in letters dated September 14, 2015, and January 20, 2016.
- E. Licensed material may be stored and/or used in conditioning chambers located throughout U.S. Army Yuma Proving Ground, Arizona, as described in letters dated September 14, 2015, and January 20, 2016.
11. A. Licensed material shall be used by, or under the supervision of, individuals designated by the licensee's Radiation Safety Committee, Julio Dominguez, Chairperson.
- B. The Radiation Safety Officer for this license is Gurvis Davis.
12. Authorized use locations listed in License Condition 10 may not be released for unrestricted use until the licensee verifies that the appropriate release criteria specified by the U.S. Nuclear Regulatory Commission have been satisfied.
13. The licensee shall conduct an annual review of environmental data. The review shall include a summary of the data for the past year, identify any action levels that were exceeded, and discuss corrective actions which have been taken or are planned. The review and summary shall be maintained for inspection purposes.
14. 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 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.
15. The licensee shall maintain records of information related to decommissioning as specified in 10 CFR 40.36(f) until this license is terminated by the Commission.
16. The licensee is not authorized to introduce depleted uranium ammunition (penetrator rods) into a chemical, physical, or metallurgical treatment or process unless specifically authorized by license condition.
17. Notwithstanding Condition 16, the licensee is authorized to introduce depleted uranium ammunition (penetrators) into a chemical treatment or process in Test Bed Areas #1 and #2 in accordance with the procedures submitted on letter dated February 21, 2012, for the study and analysis of corrosive properties and transport characteristics of penetrators.
18. 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."

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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 August 18, 2011 (ML11270A034)
 - B. Letter dated February 21, 2012 with attachments (ML120580621)
 - C. Letter dated March 12, 2012 (ML12079A223)
 - D. Electronic communication dated March 21, 2012 (ML120870577)
 - E. Electronic communication dated April 9, 2012 (ML121110087)
 - F. Letter dated September 14, 2015 (ML15307A677)
 - G. Letter dated January 20, 2016 (ML16061A183)



FOR THE U.S. NUCLEAR REGULATORY COMMISSION

Date: April 1, 2016

By: /RA/
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