

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, 39, 40, and 70, 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.

<p>Licensee</p> <p>1. Department of the Army</p> <p>2. HQ, US Army Field Support Command ATTN: AMSFS-SF 1 Rock Island Arsenal Rock Island, IL 61299-6500</p>	<p>In accordance with applications dated April 24, 2003 and March 4, 2004,</p> <p>3. License number SUC-1380 is renewed in its entirety to read as follows:</p> <p>4. Expiration date May 31, 2014</p> <p>5. Docket No. 040-08767, SUB-1195</p> <p>Reference No.</p>
--	--

<p>6. Byproduct, source, and/or special nuclear material</p> <p>A. Depleted uranium</p> <p>B. Depleted uranium</p>	<p>7. Chemical and/or physical form</p> <p>A. Solid Metal alloy</p> <p>B. Solid Metal alloy</p>	<p>8. Maximum amount that licensee may possess at any one time under this license</p> <p>A. 42,000,000 Kilograms</p> <p>B. 14,000 Kilograms</p>
--	---	---

9. Authorized Use:
- A. To be used for receipt, storage and transfer of military devices containing depleted uranium components and for disassembly of depleted uranium munitions as described in application dated March 4, 2004.
 - B. For possession and storage incident to decommissioning of facilities.

CONDITIONS

- 10. A. Licensed material listed in subitem 7.A. may be stored in bulk quantities at the Seneca Army Depot, Romulus, New York; Hawthorne Army Ammunition Plant, Hawthorne, Nevada; the Letterkenny Army Depot, Chambersburg, Pennsylvania; Crane Army Activity, Crane, Indiana; Bluegrass Army Depot, Richmond, Kentucky; Anniston Army Depot, Anniston, Alabama; Tooele Army Depot, Tooele, Utah; McAlester Army Ammunition Plant, McAlester, Oklahoma; and Red River Army Depot, Texarkana, Texas. Licensed material for deployment may be stored at non-bulk locations at U.S. Army bases anywhere in the United States.

**MATERIALS LICENSE
SUPPLEMENTARY SHEET**

subject License Number
SUC-1380

Docket or Reference Number
040-08767, SUB-1195

Amendment No. 43

- B. Licensed material listed in Subitem 7.B. may be stored at the Lake City Army Ammunition plant, (LCAAP) Independence, Missouri, incident to decommissioning of facilities.
- i. The licensee is authorized to remediate Area 10 of LCAAP in accordance with the licensee's "Lake City Army Ammunition Plant Area 10 (Sandpile) Radioactive Contaminated Soil Decommissioning Plan," Revision 5.1, dated April 22, 1998. The licensee shall use the unrestricted use criteria listed in "Guidance for Decontamination of Facilities and Equipment Prior to Release for Unrestricted Use or Termination of License for Byproduct, Source, or Special Nuclear Material" for surfaces of buildings and equipment, and the Branch Technical Position, "Disposal or Onsite Storage of Thorium or Uranium Wastes from Past Operations," for soils.

Specific values are given below-

Soils:

Depleted uranium- 1.3 Bq/gm (35 pCi/gm) total uranium.

Equipment and Surfaces:

5,000 dpm alpha/100 cm²; average contamination level over 1 m² or smaller area

5,000 dpm beta-gamma/100 cm²; average contamination level over 1 m² or smaller area

15,000 dpm alpha/100 cm²; maximum over 100 cm²

15,000 dpm beta-gamma/100 cm²; maximum over 100 cm²

1,000 dpm alpha/100 cm²; removable

1,000 dpm beta-gamma/100 cm²; removable

Exposure rate:

Soils - 2.6 nC/kg/hr (10 uR/hr) average above background at 1 meter

Equipment and buildings - 1.3 nC/kg/hr (5 uR/hr) above background at 1 meter.

- ii. Once the small sand piles are removed, the licensee shall perform a 100-percent surface scan, collect four samples per 10-meter by 10-meter grid, and perform an exposure rate measurement one meter above the ground surface. For the large sand pile the licensee shall perform a 100-percent scan of this material as it is being conveyed to the large storage sacks. Further, the licensee will collect one sample per 3- cubic meters (105-cubic feet). This is approximately four samples per a 10-meter by 10- meter grid. Once the large sand pile has been removed, the licensee shall perform a 100-percent surface scan, collect four samples per each 10-meter by 10-meter grid, and perform an exposure rate measurement one meter above the ground surface.

**MATERIALS LICENSE
SUPPLEMENTARY SHEET**

subject License Number
SUC-1380

Docket or Reference Number
040-08767, SUB-1195

Amendment No. 43

- iii. Downwind area air sampling shall be performed when work activities would cause the potential of producing airborne radioactivity, such as earth moving.
- iv. The procedure for licensee-initiated and approved changes as described in Revision 5.1 to the LCAAP Area 10 (Sandpile) Radioactive Contaminated Soil Decommissioning Plan, dated April 22, 1998, may be used provided that:
- a. Review of all proposed changes to the Area 10 Decommissioning Plan by the licensee's Project Manager (M. Stvaert) or his designee is in accordance with Administrative Procedure AROP No. 102, "Revisions to the Operational Procedures";
 - b. The licensee submits to NRC, for approval, any changes that would result in an unreviewed safety question, a change in a license condition, or changes that would have a significant adverse effect on the quality of the work, the remediation objectives, or health and safety;
 - c. The licensee documents the changes made.
- v. The licensee shall use the unrestricted use criteria listed in "Guidelines for Decontamination of Facilities and Equipment Prior to Release for Unrestricted Use or Termination of License for Byproduct, Source or Special Nuclear Material" for surfaces of buildings and equipment.
11. A. Licensed material shall be used by, or under the supervision of, Rosalene A. Graham, Kelly Crooks, or Gary W. Buckrop.
- B. The Radiation Safety Officer for this license is Kelly Crooks.
- C. The Alternative Radiation Safety Officer for this license is Gary W. Buckrop.
12. This license does not authorize the firing of ammunition containing licensed material.
13. The license shall not store more than 10,000,000 kilograms of licensed material at each bulk location and not more than 50,000 kilograms at each non-bulk storage location.

**MATERIALS LICENSE
SUPPLEMENTARY SHEET**subject License Number
SUC-1380Docket or Reference Number
040-08767, SUB-1195

Amendment No. 43

14. 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 March 4, 2004; and
- B. Letters dated August 8, 2001 (with enclosures) and March 4, 2004 (application cover letter with enclosures).



FOR THE U.S. NUCLEAR REGULATORY COMMISSION

Date MAY 10 2004By *Loren J. Hueter*
Loren J. Hueter
Materials Licensing Branch
Region III



UNITED STATES
NUCLEAR REGULATORY COMMISSION

REGION III
801 WARRENVILLE ROAD
LISLE, ILLINOIS 60532-4351

MAY 10 2004

Department of the Army
HQ, US Army Field Support Command
ATTN: AMSFS-SF
1 Rock Island Arsenal
Rock Island, IL 61299-6500

Dear Commander:

Enclosed is Amendment No. 43, renewing your NRC Material License No. SUC-1380 in accordance with your request.

Please review the enclosed document carefully and be sure that you understand all conditions. If there are any errors or questions, please notify the U.S. Nuclear Regulatory Commission, Region III office at (630) 829-9887 so that we can provide appropriate corrections and answers.

Please be advised that your license expires at the end of the day, in the month, and year stated in the license. Unless your license has been terminated, you must conduct your program involving byproduct materials in accordance with the conditions of your NRC license, representations made in your license application, and NRC regulations. In particular, note that you must:

1. Operate in accordance with NRC regulations 10 CFR Part 19, "Notices, Instructions and Reports to Workers; Inspections," 10 CFR Part 20, "Standards for Protection Against Radiation," and other applicable regulations.
2. Notify NRC, in writing, within 30 days:
 - a. When the Radiation Safety Officer permanently discontinues performance of duties under the license or has a name change; or
 - b. When the mailing address listed on the license changes.
3. In accordance with 10 CFR 30.36(b) and/or license condition, notify NRC, promptly, in writing, and request termination of the license:
 - a. When you decide to terminate all activities involving materials authorized under the license; or
 - b. If you decide not to complete the facility, acquire equipment, or possess and use authorized material.
4. Request and obtain a license amendment before you:
 - a. Change Radiation Safety Officers;

- b. Order byproduct material in excess of the amount, or radionuclide, or form different than authorized on the license;
 - c. Add or change the areas of use or address or addresses of use identified in the license application or on the license; or
 - d. Change ownership of your organization.
5. Submit a complete renewal application or termination request at least 30 days before the expiration date of your license. You will receive a reminder notice approximately 90 days before the expiration date. Possession of byproduct material after your license expires is a violation of NRC regulations. A license will not normally be renewed, except on a case-by-case basis, in instances where licensed material has never been possessed or used.

In addition, please note that NRC Form 313 requires the applicant, by his/her signature, to verify that the applicant understands that all statements contained in the application are true and correct to the best of the applicant's knowledge. The signatory for the application should be the licensee or certifying official rather than a consultant.

You will be periodically inspected by NRC. Failure to conduct your program in accordance with NRC regulations, license conditions, and representations made in your license application and supplemental correspondence with NRC will result in enforcement action against you. This could include issuance of a notice of violation, or imposition of a civil penalty, or an order suspending, modifying or revoking your license as specified in the General Statement of Policy and Procedure for NRC Enforcement Actions. Since serious consequences to employees and the public can result from failure to comply with NRC requirements, prompt and vigorous enforcement action will be taken when dealing with licensees who do not achieve the necessary meticulous attention to detail and the high standard of compliance which NRC expects of its licensees.

Sincerely,



Loren J. Hueter
Materials Licensing Branch

License No. SUC-1380
Docket No. 040-08767

Enclosure: Amendment No. 43