NRC FORM 374		ILATORY COMMISSION		PAGE <u>1</u> OF <u>5</u> PAGES Amendment No.2		
	U.J. NUULEAN NEGU		1			
	MATERIALS	LICENSE				
Pursuant to the Atomic Energy Act of 195 of Federal Regulations, Chapter I, Parts 3 heretofore made by the licensee, a license source, and special nuclear material desi deliver or transfer such material to persons shall be deemed to contain the conditions applicable rules, regulations, and orders of below.	30, 31, 32, 33, 34, 35, 36, 37, 3 se is hereby issued authorizin ignated below; to use such n s authorized to receive it in ac is specified in Section 183 of	39, 40, 70 and 71, and in reling the licensee to receive, a material for the purpose(s) a ccordance with the regulation f the Atomic Energy Act of	iance cquire and at ons of t 1954,	on statements and representations e, possess, and transfer byproduct, t the place(s) designated below; to the applicable Part(s). This license as amended, and is subject to all		
Licensee		In accordance with le	etter c	dated		
	September 15, 2016					
1. United States Army Installation Command	<ol> <li>License number SUC-1593 is amended with respect to LC 18 and LC 19:</li> </ol>					
2. ATTN: IMSO, Building 2261, 24 Fort Sam Houston, Texas, 782	4. Expiration date: March 21, 2026					
		5. Docket No. 040-09	083			
		Reference No. Amend	ment	No.2		
6. Source Material	7. Chemical and/or phy	/sical form	8.	Maximum amount that licensee may possess at any one time under this license		
Uranium (depleted)	Any			5700 kg, as distributed below		
	Installation		DU	mass (kg)		
	A. Fort Benning, GA (G	eorgia)	Α.	1850		
	B Fort Bragg, NC (Nor	th Carolina)	В.	810		
	C Fort Campbell, KY (Kentu			130		
	D. Fort Carson, CO (Co	olorado)	D.	270		
	E. Fort Gordon, GA (Ge	eorgia)	E.	30		
	F. Fort Hood, TX (Texa	•	F.			
	G. Fort Hunter Liggett,	· ,	G.			
I	H. Fort Jackson, SC (S	•	Н.			
l	I. Fort Knox, KY (Kentu	• /	Ι.	760		
	J. Fort Polk, LA (Louisia		J.	370		
	K. Fort Riley, KS (Kans	•	K.			
	L. Fort Sill, OK (Oklaho	,	L.	120		
	M. Donnelly Training Ar AK (Alaska)	-	M.			
	N. Joint Base Lewis-Mo Training Center, V	NA (Washington)	N.	340		
	O. Joint Base McGuire- (New Jersey)	-Dix-Lakehurst, NJ	0.	-		
	P. Schofield Barracks/	,	Ρ.	140		
	Pohakuloa Training	g Area, HI (Hawaii)				
I			57	00 Kg		
	Total					

NRC F	DRM 374 U.S. NUCLEAR REGULATORY COMMISSION		PAGE	2	of	5	PAGES	
		License Number SUC-1593						
	MATERIALS LICENSE SUPPLEMENTARY SHEET	Docket or Reference Number 040-09083						
		Amendment No. 2						
9.	Authorized Use:							
	Activities necessary for the possession and management of depleted uranium spotting rounds and fragments as a result of previous use of depleted uranium at sites located at U.S. Army installations. These activities include:							
	A. Activities necessary to maintain the sites in a safe condition and to prevent the unauthorized removal of licensed material from the authorized places of use;							
	B. Activities necessary to determine the presence of licensed material at the sites;						0	
	C. Activities necessary to monitor the radiological environmental conditions in and around the authorized places of use to determine if licensed material is being transported in the					6		
	environment; and D. Activities necessary for the packaging, trans material to a licensed/permitted disposal faci		ntally i	dent	ified	lice	nsed	
	CONDITION	IS						
10.	The authorized places of use (possession) shall be at l	JS Army installations at I	Donnel	lv Tr	ainir	na A	rea	
	Fort Wainwright, AK; Fort Benning GA; Fort Bragg, NC; Fort Campbell, KY; Fort Carson, CO; Fort Gordon, GA; Fort Hood, TX; Fort Hunter Liggett, CA; Fort Jackson, SC; Fort Knox, KY; Fort Polk, LA; Fort Riley, KS; Fort Sill, OK; Joint Base Lewis-McChord/Yakima Training Center, WA; Joint Base McGuire-Dix-Lakehurst, NJ; and Schofield Barracks/Pohakuloa Training Area, HI.							
11.	11. Except as specifically provided otherwise, the licensee shall conduct operations in accordance with the commitments, representations, and statements contained in the license amendment application:						the	
•	<ul> <li>Programmatic RSP, "Radiation Safety Plan for IMCOM Ranges Affected by M101 Davy Crockett Spotting Round Depleted Uranium," dated December 31, 2015 (ML16004A369);</li> </ul>							
•	<ul> <li>Programmatic PSP; "Physical Security Plan for US Army Installation Management Command Ranges Affected by Depleted Uranium in M101 Davy Crockett Spotting Rounds," dated December 31, 2015 (ML16004A369);</li> </ul>							
•	<ul> <li>Army's Form 313, "Application for Materials License," items 1-7, dated June 1, 2015 (Pkg. ML15161A454);</li> </ul>							
•	<ul> <li>Attachment 3, "Calculation of TEDE to Individual Likely to Receive Highest Dose, "dated June 1, 2015 (Pkg. ML15161A454);</li> </ul>							
•	<ul> <li>Attachment 4, "Attachment 4. How the Army Determined the M101DU RCAs," dated June 1, 2015 (Pkg. ML15161A454);</li> </ul>							
•	<ul> <li>Attachment 5, "Bounding Calculations Using RESRAD 7.0 and RESRAD-OFFSITE 3.1," dated June 1, 2015 (Pkg. ML15161A454);</li> </ul>							
•	<ul> <li>Attachment 8, "Arguments against Air Sampling During HE [High Explosive] Fire into RCAs [Radiation Control Areas]", dated June 1, 2015 (Pkg. ML15161A454);</li> </ul>							
•	Email clarifying RCAs at Fort Knox, KY, dated January 29, 2016 (ML16041A107);							
•	<ul> <li>Attachment 8, "Estimating Public Exposure to Airborne Depleted Uranium Outside the U.S. Army Pohakuloa Training Area, Hawaii," September 30, 2015, (ML15294A276);</li> </ul>							
•								
•	Attachment 10, "Arguments against Air Sampling During HE Fire into RCAs, rev. 1," September 30, 2015, (ML15294A276);							
-	Attachment 11 "Calculation of Public Dass SOD" S	ntombor 20, 2015 (N/I 15	20112	76).				

• Attachment 11, "Calculation of Public Dose SOP," September 30, 2015 (ML15294A276);

NRC FO	RM 374 U.S. NUCLEAR REGULATORY COMMISSION	F	PAGE	3	of	5	PAGES
		License Number SUC-1593					
	MATERIALS LICENSE SUPPLEMENTARY SHEET	Docket or Reference Number 040-09083					
		Amendment No. 2					
•	<ul> <li>February 9, 2016 (ML16042A232);</li> <li>Maps of the locations of the RCAs, "M101 Impact Areas," dated December 31, 2015 (but, sent February 12, 2016, (ML16048A358);</li> </ul>						ated
	license condition(s) below:						
12.	. If the licensee identifies information indicating that Davy Crockett-related depleted uranium may be present at a U.S. Army installation not identified in License Condition 10 or included on another NRC license, then the licensee will notify the NRC in writing within 15 calendar days of the identification of this information and this notice must include a schedule for evaluating the presence of depleted uranium. The evaluation schedule should not exceed 90 calendar days from the date of the notification letter.				C of this n.		
13.	If it is determined that Davy Crockett-related depleted uranium is present at a U.S. Army installation not listed in License Condition 10 or included on another NRC license, the licensee shall submit a request to include the installation in this license within 60 calendar days of the determination. The request will address Radiation Safety, Environmental Radiation Monitoring, Physical Security, Decommissioning Financial Assurance, and the name of the Garrison Radiation Safety Officer. Any additional procedures necessary to ensure compliance with License Conditions 9A - 9D that are not included in the licensee's application referenced in License Condition 11 will also be included in the request.				est to I g lures		
14.	The licensee shall submit an updated site-specific decommissioning cost estimate and financial assurance instrument for each U.S. Army installation listed in License Condition 10 on a triennial basis, by December 31 <sup>st</sup> of each year or, if applicable, in accordance with the requirements of 10 CFR 40.36(c)5.			asis,			
15.	The licensee shall post "Caution - Radioactive Material each the Radiation Control Areas to ensure that individ aware of the presence of depleted uranium. The signs impact areas if posting them at the Radiation Control A unexploded ordnance.	uals entering the Radiation may be placed at the peri	n Cont imeter	trol / of th	Area ne ra	are ange	; ;

16. Decommissioning is not authorized without NRC approval:

a. The licensee shall not perform any decommissioning or ground disturbing activities to collect or remove depleted uranium fragments or contaminated soil that is identified during routine range activities at any of the Radiation Control Areas without prior authorization from the NRC. Picking up incidental pieces of DU that the Army finds during training exercises would be allowed without NRC approval, if it does not involve ground disturbing activities;

NRC FORM 374

## U.S. NUCLEAR REGULATORY COMMISSION

## MATERIALS LICENSE SUPPLEMENTARY SHEET

SUC-1593 Docket or Reference Number 040-09083

License Number

Amendment No. 2

b. NRC or Agreement State licensed contractors may undertake decommissioning or ground disturbing activities to collect or remove depleted uranium fragments or contaminated soil that is identified during routine range activities at any Radiation Control Area consistent with the conditions and commitments of their license(s); and

c. When the licensee engages an NRC or Agreement State licensed contractor to undertake decommissioning or ground disturbing activities to collect or remove depleted uranium fragments or contaminated soil that is identified during routine range activities at any of the Radiation Control Areas, the licensee will notify NRC in accordance with the requirements of 10 CFR 40.42(g)(1). The licensee shall provide NRC with the contractor's site-specific decommissioning plans and all other documents associated with radiation safety and environmental monitoring associated with the proposed decommissioning or ground disturbing activities in accordance with the requirements of 10 CFR 40.42 prior to the commencement of the activity. If issues are identified by NRC that could impact radiological health and safety, they will be resolved prior to the commencement of the activity.

- 17. When analytical sampling results from locations outside of the Radiation Control Area indicate that the U-238/U-234 activity ratio exceeds 3, the licensee shall notify NRC within 30 calendar days and collect additional environmental samples within 30 calendar days of the notification of NRC, unless prohibited by the absence of the sampling media (e.g., lack of well water).
- 18. Within 6 months of the effective date of License Amendment No. 2, the licensee shall fully implement each installation's site-specific environmental radiation monitoring plan.

NRC FO	RM 374 U.S. NUCLEAR REGULATORY COMMISSION	PAGE 5 of 5 PAGES				
	MATERIALS LICENSE	License Number SUC-1593 Docket or Reference Number				
	SUPPLEMENTARY SHEET	040-09083				
		Amendment No. 2				
		I				
	[Amendment 2]					
19.	Deleted.					
20.	All written notices and reports to USNRC required under this license shall be addressed to: ATTN: Document Control Desk, Deputy Director, Division of Decommissioning, Uranium Recovery, and Waste Programs, Office of Nuclear Material Safety and Safeguards, Mailstop T8 F5, U. S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by express delivery to 11545 Rockville Pike, Two White Flint North, Rockville, MD 20852-2738. Required telephone notification shall be made to the NRC Operations Center at (301) 816-5100, unless otherwise specified in license conditions.					
	FOR THE U.S. NUCLEAR REGULATORY COMMISSION					
Date:	<u>February 9, 2017</u> By:	/RA/ Theodore Smith, Branch Chief (Acting) Division of Decommissioning, Uranium Recovery and Waste Programs Office of Nuclear Material Safety and Safeguards				