NRC FORM 374	U.S. NUCLEAR REGL	JLATORY COMMISSION	PAGE	1OF Amen	5 PAGES dment No. 9	
Pursuant to the Atomic Energy Act of 1954 of Federal Regulations, Chapter I, Parts 30 heretofore made by the licensee, a license source, and special nuclear material desig deliver or transfer such material to persons shall be deemed to contain the conditions applicable rules, regulations, and orders of below.	<b>MATERIALS</b> , as amended, the Energy , 31, 32, 33, 34, 35, 36, 37, is hereby issued authorizir nated below; to use such r authorized to receive it in a specified in Section 183 c f the Nuclear Regulatory Co	<b>LICENSE</b> Reorganization Act of 1974 39, 40, 70 and 71, and in rel ng the licensee to receive, a material for the purpose(s) a accordance with the regulatic of the Atomic Energy Act of ommission now or hereafter	(Public Law iance on sta icquire, poss and at the p ons of the ap 1954, as ar in effect an	v 93-438), and atements and r sess, and tran- blace(s) desigr oplicable Part(s mended, and i nd to any cond	Title 10, Code epresentations sfer byproduct, nated below; to s). This license is subject to all itions specified	
Licensee		In accordance with le	etter dated	d January 3,	2025	
1. United States Army Installation Management Command		3. Source Materials License No. SUC-1593, Amendment 9: identifies interim Radiation Safety Officer				
<ul> <li>2. ATTN: Director, Safety Office, 4400 Martin Road, Building 4400, Redstone Arsenal, Alabama 35898- 5000</li> <li>5. Dool</li> </ul>		4. Expiration date: Ma	arch 21, 2	026		
		5. Docket No. 040-09	083			
6. Source Material 7. Chemical and/or physical form		8. Maxi may unde	imum amount possess at an er this license	that licensee by one time		
Uranium (depleted)	Any		5700 Kg	l, as distribu	ited below	
	Installation		DU mass	s (Kg)		
	A. Fort Moore (former	Fort Benning), GA	A. 1850	C		
	B. Fort Liberty (former	Fort Bragg), NC	B. 810	D		
	C. Fort Campbell, KY		C. 130	0		
	D. Fort Carson, CO		D. 270	0		
	E. Fort Eisenhower (TO	rmer Fort Gordon), GA	E. 30	)		
	G Fort Hunter Liggett.		г. //с G 30	J		
	H. Fort Jackson, SC	0/	H. 30	, )		
	I. Fort Knox, KY		I. 760	)		
	J. Fort Johnson (forme	er Fort Polk), LA	J. 370	)		
	K. Fort Riley, KS		K. 20	)		
	L. Fort Sill, OK		L. 120	)		
	M. Donnelly Training Area, Fort Wainwright, AK		M. 20	)		
	N. Joint Base Lewis-M <sup>a</sup> Training Center, '	cChord/Yakima WA	N. 340	)		
	O. Joint Base McGuire	⊱Dix-Lakehurst, NJ	O. 10	)		
	/PTA, HI	P. 140	)			
	Total		5700 Kg	g		

NRC FORM 374 U.S. NUCLE	AR REGULATORY COMMISSION	PAGE 2 of 5 PAGES						
		License Number SUC-1593						
MATERIALS LICENSE SUPPLEMENTARY SHEET		Docket or Reference Number 040-09083						
		Amendment No. 9						
9. Authorized Use:								
Activities necessary for the fragments as a result of previnclude:	Activities necessary for the possession and management of depleted uranium (DU) spotting rounds and fragments as a result of previous use of DU at sites located at U.S. Army installations. These activities include:							
<ul> <li>A. Activities necessary removal of licensed in</li> <li>B. Activities necessary</li> <li>C. Activities necessary authorized places of environment; and</li> <li>D. Activities necessary material to a licensed</li> </ul>	<ul> <li>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;</li> <li>B. Activities necessary to determine the presence of licensed material at the sites;</li> <li>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 environment; and</li> <li>D. Activities necessary for the packaging, transport, and disposal of incidentally identified licensed material to a licensed/permitted disposal facility.</li> </ul>							
	CONDITIO	NS						
<ol> <li>The authorized places of use (possession) shall be at U.S. Army installations at Donnelly Training Area, Fort Wainwright, AK, Fort Moore, GA; Fort Liberty, NC; Fort Campbell, KY; Fort Carson, CO; Fort Eisenhower, GA; Fort Cavazos, TX; Fort Hunter Liggett, CA; Fort Jackson, SC; Fort Knox, KY; Fort Johnson, LA; Fort Riley, KS; Fort Sill, OK; Joint Base Lewis-McChord/Yakima Training Center, WA; Joint Base McGuire-Dix-Lakehurst, NJ; and Schofield Barracks/ PTA, HI.</li> </ol>								
11. Except as specifically provi commitments, representation	ded otherwise, the licensee ons, and statements contai	shall conduct operations in accordance with the ned in the following documents:						
<ul> <li>Operational Documents:</li> <li>Programmatic Radiation Management Command] dated May 26, 2023 (Age No. ML23158A058)</li> <li>Programmatic Physical S Command Ranges Affect December 31, 2015 (ADA Maps of "M101 Impact Ai</li> <li>Memorandum for Record May 26, 2023 (ADAMS A</li> <li>Revised Final Programm Approach for Preparation Site-Specific ERMPs, daf</li> <li>As revised in Nov (ML23355A112); Fort Johnson, LA</li> </ul>	Safety Plan (RSP), "Radiati Ranges Affected by M101 incywide Documents Acces ecurity Plan, "Physical Sec ed by Depleted Uranium in AMS Accession No. ML211 reas," dated December 11, : Radiation Control Area (R accession No. ML23158A05 atic Environmental Radiatic of Installation-specific Env red March 18, 2020 (ADAM ember 2023 for Fort Moore Fort Eisenhower, GA (ML23 (ML23355A115); and Joint	ion Safety Plan for IMCOM [Installation Davy Crockett Spotting Round Depleted Uranium," as and Management System [ADAMS] Accession curity Plan for U.S. Army Installation Management M101 Davy Crockett Spotting Rounds," dated 65A014) 2023 (ADAMS Accession No. ML23355A110) RCA) Addition at Joint Base Lewis-McChord, dated 66) on Monitoring Plan (ERMP), "Programmatic rironmental Radiation Monitoring Plans", and S Accession No. ML21165A013) e, GA (ML23355A111); Fort Liberty, NC 3355A113); Fort Cavazos, TX (ML23355A114); E Base Lewis-McChord/Yakima Training Center, WA						
(ML23355A116) • Revised Final Programma Accession No. ML23355/	atic Quality Assurance Proj A118)	ect Plan (QAPP), dated November 2023 (ADAMS						

NRC F	ORM	374
-------	-----	-----

## MATERIALS LICENSE SUPPLEMENTARY SHEET

SUC-1593 Docket or Reference Number 040-09083

License Number

Amendment No. 9

- "U.S. Army Decommissioning Funding Plan (DFP) for License Number SUC-1593," including Statement of Intent and Certificate of Financial Assurance, dated December 16, 2022 (ADAMS Accession No. ML22361A077)
- Letter dated December 15, 2017 (ADAMS Accession No. ML18009A456), clarifying sediment sample collection:
  - "The collection of the sediment sample will consist of a discrete sample at each sample location. If necessary, multiple aliquots (no more than 10) will be collected from a 1-meter radius of the sample location in order to collect the required volume from the stream bed."

## Historical License documents and Calculations:

- June 1, 2015 License Amendment Application (ADAMS Package Accession No. ML15161A454)
  - Form 313, "Application for Materials License," items 1-7 (ADAMS Accession No. ML15161A458)
  - Attachment 5, "Bounding Calculations Using RESRAD 7.0 and RESRAD-OFFSITE 3.1, (ADAMS Accession No. ML23158A059), typo corrected May 26, 2023
- September 30, 2015 (Response to U.S. Nuclear Regulatory Commission [NRC] Requests for Additional Information and Attachments 3, 4, 8, 9, 10, 11), (ADAMS Package Accession No. ML15294A276)
  - Attachment 3, "Calculation of TEDE [Total Effective Dose Equivalent] to Individual Likely to Receive Highest Dose," (ADAMS Accession No. ML15294A278)
  - Attachment 4, "How the Army Determined the M101 DU RCAs [Radiation Control Areas]," (ADAMS Accession No. ML15294A278)
  - Attachment 8, "Estimating Public Exposure to Airborne Depleted Uranium Outside the U.S. Army Pohakuloa Training Area, Hawaii," (ADAMS Accession No. ML15294A277)
  - Attachment 9, "Examples of Army Range Fires," (ADAMS Accession No. ML15294A277)
  - Attachment 10, "Arguments against Air Sampling During HE [High Explosive] Fire into RCAs, Rev. 1," (ADAMS Accession No. ML15294A277)
  - Attachment 11, "Calculation of Public Dose' SOP [Standard Operating Procedure]," ADAMS Accession No. (ML15294A277)
- Emails:
  - Email clarifying RCAs at Fort Knox, KY, January 29, 2016 (ADAMS Accession No. ML16041A107)
  - Emails clarifying M101 RCAs, February 12, 2016 (ADAMS Accession No. ML16048A347), May 24, 2016 (ADAMS Accession No. ML16341C807), and December 7, 2016 showing 38 RCAs (ADAMS Accession No. ML16351A092)

The approved license application is hereby incorporated by reference, except where superseded by license condition(s) below:

- 12. If the licensee identifies information indicating that Davy Crockett-related DU 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 DU. The evaluation schedule should not exceed 90 calendar days from the date of the notification letter.
- 13. If it is determined that Davy Crockett-related DU 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

NRC FO	DRM 374	U.S. NUCLEAR REGULATORY COMMISSION		PAGE	4	of	5	PAGES
			License Number SUC-1593					
		MATERIALS LICENSE SUPPLEMENTARY SHEET	040-09083					
			Amendment No. 9					
	assurar necessa applicat	nce, and the name of the Garrison Radiation Sa ary to ensure compliance with License Condition tion referenced in License Condition 11 will also	fety Officer (RSO). Any ns 9A - 9D that are not ir be included in the reque	additior ncluded est.	nal p in th	roce ne lic	dure ens	es ee's
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 Title 10 of the <i>Code of Federal Regulations</i> (10 CFR) Section 40.36(c)5.						asis, he	
15.	The licensee shall post "Caution - Radioactive Material" signs at a sufficient number of locations around each of the RCAs to ensure that individuals entering the RCA are aware of the presence of DU. The signs may be placed at the perimeter of the range impact areas if posting them at the RCA boundary is unsafe due to the presence of unexploded ordnance.							
16.	Decom	missioning is not authorized without NRC appro	val:					
	а.	The licensee shall not perform any decommiss remove DU fragments or contaminated soil that any of the RCAs without prior authorization fro that the licensee finds during training exercises does not involve ground disturbing activities;	ioning or ground disturbi t is identified during rout m the NRC. Picking up i would be allowed witho	ing activ ine rang ncident out NRC	/ities ge a al pi app	s to c ctivit eces prova	colle ies a s of l al, if	ct or at DU it
	b.	NRC or Agreement State licensed contractors disturbing activities to collect or remove DU fra during routine range activities at any RCA cons their license(s); and	may undertake decomm gments or contaminated sistent with the condition	issionin soil tha s and co	g or at is omn	grou ident nitme	und tifieo ents	d of
	C.	When the licensee engages an NRC or Agreen decommissioning or ground disturbing activitie contaminated soil that is identified during routin licensee will notify NRC in accordance with the The licensee shall provide NRC with the contra- other documents associated with radiation safe the proposed decommissioning or ground distu- requirements of 10 CFR Section 40.42 prior to identified by NRC that could impact radiological the commencement of the activity.	nent State licensed cont s to collect or remove DU ne range activities at any requirements of 10 CFF actor's site-specific decor ety and environmental m urbing activities in accord the commencement of t il health and safety, they	ractor to J fragm of the I R Section mmissic onitorin lance w he activ will be	o un ents RCA on 40 oning g as ith th ity. resc	derta or .s, th ).42( g pla socia ne If iss olved	ake ie ns a ated sues l prid	). and all I with s are or to
17.	When analytical sampling results from locations outside of the RCA indicate that the uranium-238 to uranium-234 ratio (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).						o r).	
18.	The Army will sample sediment and surface water semiannually at all installations listed on this license in accordance with the ERMPs and QAPP referenced in License Condition 11. The QAPP includes requirements for the timing of semiannual surface water sampling (i.e., capture lower and higher flow rates) and surface water analytical protocols (i.e., samples preserved in the original sample containers, reported total uranium includes both particle-associated, and dissolved uranium) and states "When					nse S W ers,		

.

NRC FO	RM 374	U.S. NUCLEAR REGULATORY COMMISSION		PAGE	5	of	5 F	PAGES
			License Number SUC-1593					
		MATERIALS LICENSE SUPPLEMENTARY SHEET	Docket or Reference Number 040-09083					
			Amendment No. 9					
	analytical sampling results indicate that the total concentration of uranium exceeds 150 pCi/L, the U.S. Army will notify NRC within 30 days after which the Army will await further instructions, if any, from NRC."							
19.	a.	Licensed materials shall be kept under the supervision of the Radiation Safety Officer (RSO). In accordance with letter dated January 3, 2025 (ADAMS Accession No. ML25010A087), the Interim RSO for this license is Major David A. Hermann, who may be contacted at:						
		Headquarters, U.S. Army Materiel Command Attention: Director, Safety Office 4400 Martin Road, Building 4400 Redstone Arsenal, Alabama 35898-5000 David.a.hermann7.mil@army.mil (256) 450-7898						
	b.	The certifying official on this license is the U.S notify the NRC within 30 days of any change in the address referenced in License Condition 2 correspondence.	. Army IMCOM Command the name of the IMCOM 0. Include Docket # 040-	der. The 1 Comm 09083 i	e U.S ande n all	3. Ar ər by	my s lette	shall er to
20.	All writt	en notices and reports to NRC required under t	his license shall be addre	essed to	:			
	ATTN: Document Control Desk Deputy Director, Division of Decommissioning, Uranium Recovery, and Waste Programs Office of Nuclear Material Safety and Safeguards, Mailstop T-5A10 U. S. Nuclear Regulatory Commission 11545 Rockville Pike, Two White Flint North Rockville, MD 20852-2738							
Required telephone notification shall be made to the NRC Operations Center at (30 <sup>-</sup> emergencies, or to the NRC License Project Manager. Include Docket # 040-09083 correspondence.							i for	
	FOR THE U.S. NUCLEAR REGULATORY COMMISSION							
Date:								
	Februa	ry 5, 2025	Duane E. White, Branch Low-Level Waste and Pro Division of Decommission and Waste Programs Office of Nuclear Materia and Safeguards	Chief ojects B ning, Ur I Safety	- aniu	h m Ro	∋cov	'ery,