

DOE/NRC FORM 742 (05-2021) MANDATORY DATA COLLECTION AUTHORIZED BY 10 CFR 30, 40, 50, 70, 72, 74, 75, 150, Public Laws 83-703, 93-438, 95-91	U.S. DEPARTMENT OF ENERGY AND U.S. NUCLEAR REGULATORY COMMISSION	APPROVED BY OMB: NO. 3150-0004 Estimated burden per response to comply with this mandatory collection request: 2 hours for small licensees and 5 hours for large licensees. Reported lessons learned are incorporated into the licensing process and fed back to industry. Send comments regarding burden estimate to the FOIA, Library, and Information Collections Branch (T-6 A10M), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by e-mail to InfoCollects.Resource@nrc.gov , and the OMB reviewer at: OMB Office of Information and Regulatory Affairs, (3150-0004), Attn: Desk Officer for the Nuclear Regulatory Commission, 725 17th Street NW, Washington, DC 20503; e-mail: oina_submission@omb.eop.gov . The NRC may not conduct or sponsor, and a person is not required to respond to, a collection of information unless the document requesting or requiring the collection displays a currently valid OMB control number.	EXPIRES: 02/29/2024
MATERIAL BALANCE REPORT			

1. NAME AND ADDRESS Fermi National Accelerator Laboratory P.O. Box 500 Batavia, IL 60510 ATTN: Kathy J. Graden, Mail Stop 363	2. LICENSE NUMBER(S) DOE Prime Contractor	3. REPORTING IDENTIFICATION SYMBOL (RIS) CWA
4. REPORT PERIOD (MM/DD/YYYY) FROM 10/1/2022 TO 09/30/2023		5. MATERIAL TYPE (Submit separate report for each type) Americium-241: MT 44

SECTION A MATERIAL ACCOUNTABILITY			
PC	SEQ	DESCRIPTION	WEIGHT
		A. ELEMENT WEIGHT	B. ISOTOPE WEIGHT
	8.	BEGINNING INVENTORY -- U.S. GOVT-OWNED	11
	9.	BEGINNING INVENTORY -- NOT U.S. GOVT-OWNED	
RECEIPTS			
	11.	PROCUREMENT FROM DOE RIS	
		FROM:	
	13.	PROCUREMENT -- FOR THE ACCOUNT OF DOE	
	14.	DOD RETURNS -- USE A	
	15.	DOD RETURNS -- USE B	
	16.	DOD RETURNS -- OTHER USES	
	21.	PRODUCTION	
	22.	FROM OTHER MATERIALS	
		a. ICT	
		b. ICT	
		c. ICT	
	30.	RECEIPTS REPORTED TO DOE/NRC ON DOE/NRC 741 (not listed elsewhere)	
		FROM: RIS	
	34.	RECEIPTS -- MISC	
	37.	PROCUREMENT BY OTHERS	
	38.	DONATED MATERIAL -- FROM U.S. GOVT TO OTHERS	
	39.	DONATED MATERIAL -- FROM OTHERS TO U.S. GOVT	
	40.	TOTAL (Lines 8-39)	11
REMOVALS			
	41.	EXPENDED IN SPACE PROGRAMS	
	42.	SALES TO U.S. GOVT RIS TO: RIS	
		TO:	
	43.	SALES TO OTHERS FOR THE ACCOUNT OF U.S. GOVT RIS	
		TO:	
	44.	DOD -- USE A	
	45.	DOD -- USE B	
	46.	DOD -- OTHER USES	
	47.	EXPENDED IN U.S. GOVT TESTS	
	48.	ROUTINE TESTS	
	49.	SHIPPER -- RECEIVER DIFFERENCE	
	51.	SHIPMENTS REPORTED TO NRC/DOE ON NRC/DOE 741 (not listed elsewhere)	
		TO: RIS	

MATERIAL BALANCE REPORT (Continued)

SECTION A (Continued) MATERIAL ACCOUNTABILITY

PC	SEQ		A. ELEMENT WEIGHT	B. ISOTOPE WEIGHT
		54. SHIPMENTS -- MISC		
		58. DONATED MATERIAL -- TO U.S. GOVT BY OTHERS		
		59. DONATED MATERIAL -- TO OTHERS BY U.S. GOVT		
		65. ROUNDING ADJUSTMENT		
		71. DEGRADATION TO OTHER MATERIALS a. ICT		
		b. ICT		
		72. DECAY	0.0173	0.0173
		73. FISSION AND TRANSMUTATION		
		74. NORMAL OPERATIONAL LOSSES/MEASURED DISCARDS		
		75. ACCIDENTAL LOSSES		
		76. APPROVED WRITE-OFFS		
		77. INVENTORY DIFFERENCE		
		80. ENDING INVENTORY -- U.S. GOVT OWNED	11	11
		81. ENDING INVENTORY -- NOT U.S. GOVT OWNED		
		82. TOTAL (Lines 41-81)	11	11
		83. BIAS ADJUSTMENT		

SECTION B FOREIGN OBLIGATIONS

PC	SEQ	1. COUNTRY OF OBLIGATION	2. ELEMENT WEIGHT	3. ISOTOPE WEIGHT
		4. TOTAL WEIGHT		

SECTION C CERTIFICATION

To the best of my knowledge and belief, the information given above and in any attached schedules is true, complete, and correct.

SIGNATURE (See instructions for provisions on confidentiality)	TITLE	DATE
<i>Kathy J. Graden</i>	Fermilab Nuclear Materials Representative	9/13/2023

WARNING: FALSE STATEMENTS IN THIS CERTIFICATE MAY BE SUBJECT TO CIVIL, AND/OR CRIMINAL PENALTIES. NRC REGULATIONS REQUIRE THAT SUBMISSIONS TO THE NRC BE COMPLETE AND ACCURATE IN ALL MATERIAL RESPECTS. 18 U.S.C. SECTION 1001 MAKES IT A CRIMINAL OFFENSE TO MAKE A WILLFULLY FALSE STATEMENT OR REPRESENTATION TO ANY DEPARTMENT OR AGENCY OF THE UNITED STATES AS TO ANY MATTER WITHIN ITS JURISDICTION.