



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 Information Services Branch (T-2 F43), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by e-mail to Infocollects.Resource@nrc.gov, and to the Desk Officer, Office of Information and Regulatory Affairs, NEOB-10202, (3150-0004), Office of Management and Budget, Washington, DC 20503. If a means used to impose an information collection does not display a currently valid OMB control number, the NRC may not conduct or sponsor, and a person is not required to respond to, the information collection.

MATERIAL BALANCE REPORT

1. NAME AND ADDRESS FERMI NATIONAL ACCELERATOR LABORATORY P.O. BOX 500 BATAVIA, IL 60510 USA ATTN: KATHY J. GRADEN, MAIL STOP 371	2. LICENSE NUMBER(S) PRIME DOE CONTRACTOR	3. REPORTING IDENTIFICATION SYMBOL (RIS) CWA
	4. REPORT PERIOD (MM/DD/YYYY) FROM TO 10/01/2019 12/31/2019	5. MATERIAL TYPE (Submit separate report for each type) AMERICIUM-241: MT 44

SECTION A MATERIAL ACCOUNTABILITY

PC	SEQ	A. ELEMENT WEIGHT	B. ISOTOPE WEIGHT
	8. BEGINNING INVENTORY -- U.S. GOVT-OWNED	11	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	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		



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MATERIAL BALANCE REPORT

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	4. REPORT PERIOD (MM/DD/YYYY) FROM TO 10/01/2019 12/31/2019	5. MATERIAL TYPE (Submit separate report for each type) Depleted Uranium: MT 10

SECTION A MATERIAL ACCOUNTABILITY

PC	SEQ	A. ELEMENT WEIGHT	B. ISOTOPE WEIGHT
	8. BEGINNING INVENTORY -- U.S. GOVT-OWNED	261,300	523
	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)	261,300	523

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. GOV'T BY OTHERS		
	59. DONATED MATERIAL -- TO OTHERS BY U.S. GOV'T		
	65. ROUNDING ADJUSTMENT		
	71. DEGRADATION TO OTHER MATERIALS a. ICT		
	b. ICT		
	72. DECAY		
	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. GOV'T OWNED	261,300	523
	81. ENDING INVENTORY -- NOT U.S. GOV'T OWNED		
	82. TOTAL (Lines 41-81)	261,300	523
	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>Katelyn J. Shaden</i>	FERMILAB NUCLEAR MATERIALS REPRESENTATIVE	12/9/2019

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.

DOE/NRC FORM 742
(04-2018)
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

EXPIRES: 04/30/2021

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MATERIAL BALANCE REPORT

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	4. REPORT PERIOD (MM/DD/YYYY) FROM TO 10/01/2019 12/31/2019	5. MATERIAL TYPE (Submit separate report for each type) DEUTERIUM: MT 86

SECTION A MATERIAL ACCOUNTABILITY

PC	SEQ	A. ELEMENT WEIGHT	B. ISOTOPE WEIGHT
	8. BEGINNING INVENTORY -- U.S. GOVT-OWNED		78.8
	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)		78.8
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.	a. ICT	
		b. ICT	
	72.	DECAY	
	73.	FISSION AND TRANSMUTATION	
	74.	NORMAL OPERATIONAL LOSSES/MEASURED DISCARDS	
	75.	ACCIDENTAL LOSSES	
	76.	APPROVED WRITE-OFFS	
	77.	INVENTORY DIFFERENCE	
	80.		78.8
	81.		
	82. TOTAL (Lines 41-81)		78.8
	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) <i>Kathy J. Shaden</i>	TITLE FERMILAB NUCLEAR MATERIALS REPRESENTATIVE	DATE 12/9/2019
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