

Transaction Reports

Presented by:

- Alexandra Zeigler
- John Cettin

- Mitch Hembree
- Brandon Zack





Topics



Alexandra Zeigler

- Purpose
- Regulatory Framework
- DOE/NRC Form 741
- 2 How to complete and submit a Transaction Report.

Mitch Hembree

John Cettin

- Required MC&A Data
- Submittal Methods
- Quality Control and Validation process applied by NMMSS.
- 3 Case Studies

Alexandra Zeigler

Brandon Zack

Domestic

- One-party
- Import/export

Adjustment





What is a Nuclear Material Transaction Report?



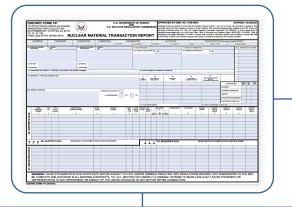


Nuclear Material Transaction Report





Maintain documentation of authorities, responsibilities, and processes for carrying out material control and accountability (MC&A) functions, including transferring of nuclear materials.



Transaction reports are also referred to as an Inventory Change Report (ICR).

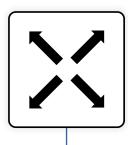
Transaction reports are utilized to help track information regarding shipments and receipts of nuclear material between facilities, onsite gains and losses, and movement of nuclear material subject to NCAs.





Facility Submitted Data

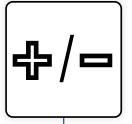
Transaction



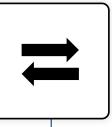
Largest and **Most Active** Component



Detailed Information regarding **Shipments** and **Receipts** of Nuclear Material between Facilities



Onsite **Gains** and **Losses** due to Production, Burnup, Decay, etc.



Movement of Nuclear

Material between

NNSA/DOE Projects

within a Facility



Movement of Nuclear Material subject to NCAs







Transaction Reporting Requirements



Must report to NMMSS if:

- Their sites ship or receive a reportable unit of nuclear material
- Their site performs an activity resulting in a gain or loss of nuclear material
- The nuclear material inventory at their sites are otherwise increased or decreased

Most material types must be reported to the nearest whole reporting unit

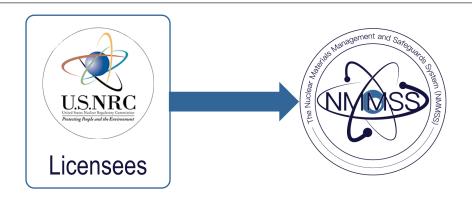
MTC 83, 86, and 87 are reported to the nearest fractional reporting unit







Transaction Reporting Requirements



Must report to NMMSS if:

- Their sites ship or receive a reportable unit of nuclear material
- Their site performs an activity resulting in a gain or loss of nuclear material
- The nuclear material inventory at their sites are otherwise increased or decreased

Material types must be reported to the nearest whole reporting unit





Complexities When Reporting Transactions

Complexities in Reporting Transactions often arise as a function of:

Volume of Shipments and Receipts

Diversity of Material and its Isotopic Composition

Processing of the Material/Blending

Quantities

Customers and **Suppliers**

Regulatory and Treaty-specific Requirements





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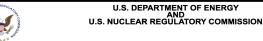
Obligated Material

Detail

Signature and **Date Block**



(10-2014) Previous editions are obsolete MANDATORY DATA COLLECTION AUTHORIZED BY 10 CFR 30, 40, 50 70, 72, 74, 75, 150



Estimated burden per response to comply with this mandatory collection request: 1 hour and 15 minutes. This information is required for IA accounting reports that show changes in inventory of nuclear materials. Send comments regarding burden estimate to the FOIA. Library at

Information Collections Branch (T-6 A10M), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by e-mail Infocollects.Resource@nrc.gov,and the OMB reviewer at: OMB Office of Information and Regulatory Affairs, (3150-0003), Attn: Desk Officer for the Nuclear Regulatory Commission, 725 17th Street NW, Washington, DC 20503; e-mail: oira_submission@omb.eop.gov. The NRC may not conduct **NUCLEAR MATERIAL TRANSACTION REPORT** Public Laws 83-703, 93-438, 95-91 sponsor, and a person is not required to respond to, a collection of information unless the document requesting or requiring the collection displays 1. SHIPPER'S RIS 2. RECEIVER'S RIS 3. TRANSACTION NO. 4. CORRECTION NO. 5 PROCESSING CODE 6. ACTION CODE 7. DOCUMENTATION (Only if document is classified SECRET) a. SHIPPER b. RECEIVER a. SHIPPER b. RECEIVER PAGE PAGES COPY COPIES SERIES b. LICENSE NO. a. NAME AND ADDRESS OF SHIPPER 9.a. NAME AND ADDRESS b. LICENSE NO. 10. NO OF DATA LINES 11. NATURE OF TRANSACTION NO. DISTRIBUTION OF COPIES 12.a. SHIPPED FOR ACCOUNT OF b. RIS 13 a SHIPPED TO ACCOUNT OF b. RIS ATTENTION c ATTENTION d. TELEPHON 4. TRANSFER AUTHORITY - CONTRACT, NM DRAFT, OR ORDER NUMBER 15. EXPORT OR IMPORT TRANSFERS: LICENSE NO. 6. MATERIAL TYPE AND DESCRIPTION OBLIGATED ISOTOPE WEIGHT For Enriched Uranium Only COUNTRY OF OBLIGATION MATERIAL OBLIGATED ELEMENT WEIGHT 22. ACTION DATE MONTH DAY YEAR (MM) (DD) (YYYY) Sa MISCELL ANEOUS b. CONCISE NOTE ATTACHED SHIPPER'S CORRECTION RECEIP RECEIVER'S MEASUREMENT RECEIVER'S CORRECTION TYPE OF INV. REFERENCE NUMBER FACILITY CODE MEAS. ISOTOPE

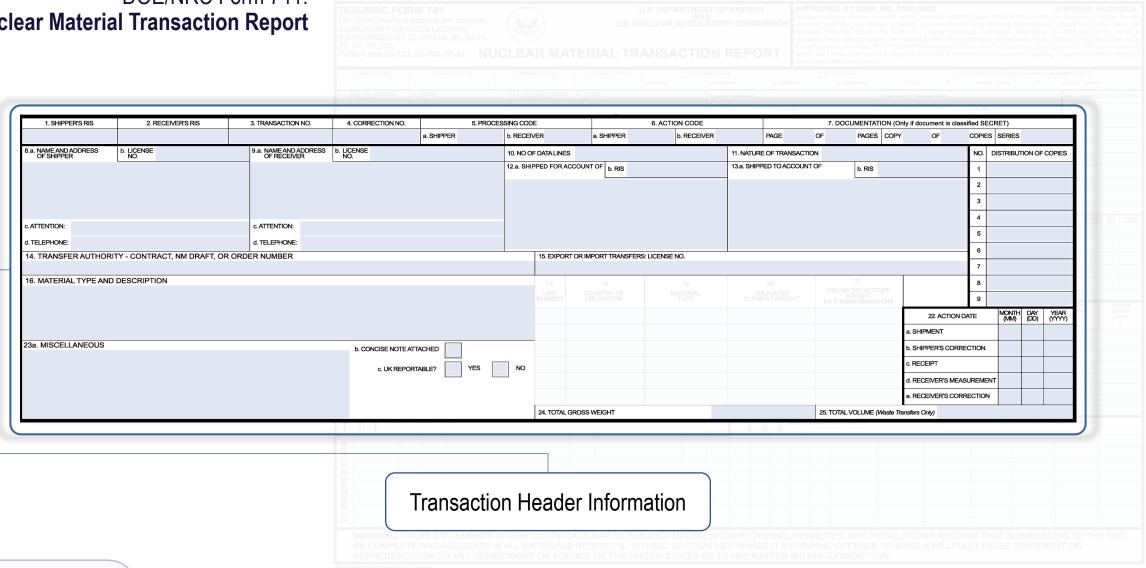
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DOE/NRC FORM 741 (5-2021)

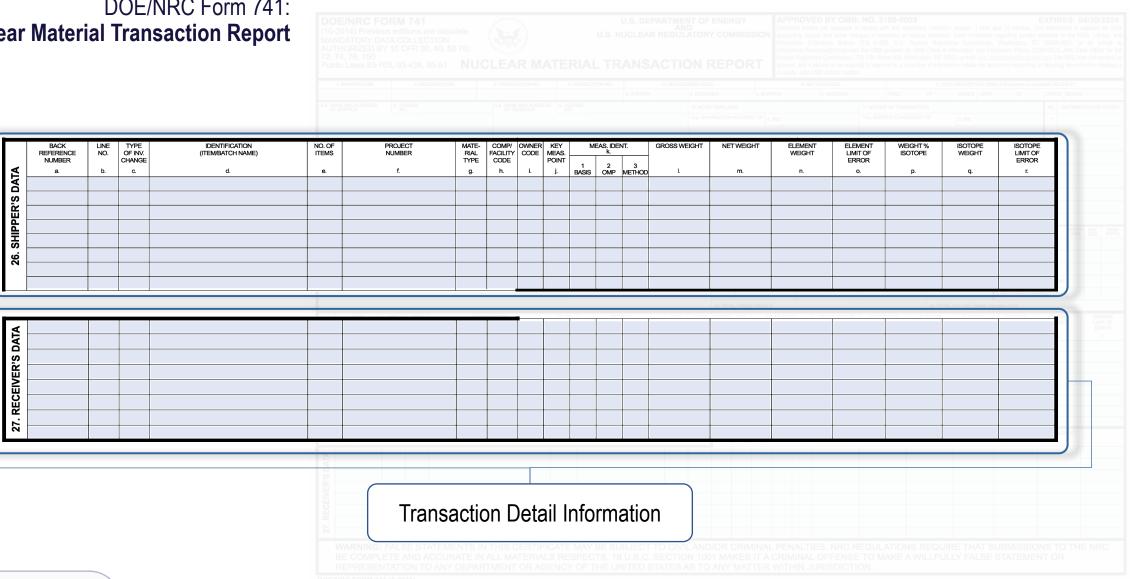














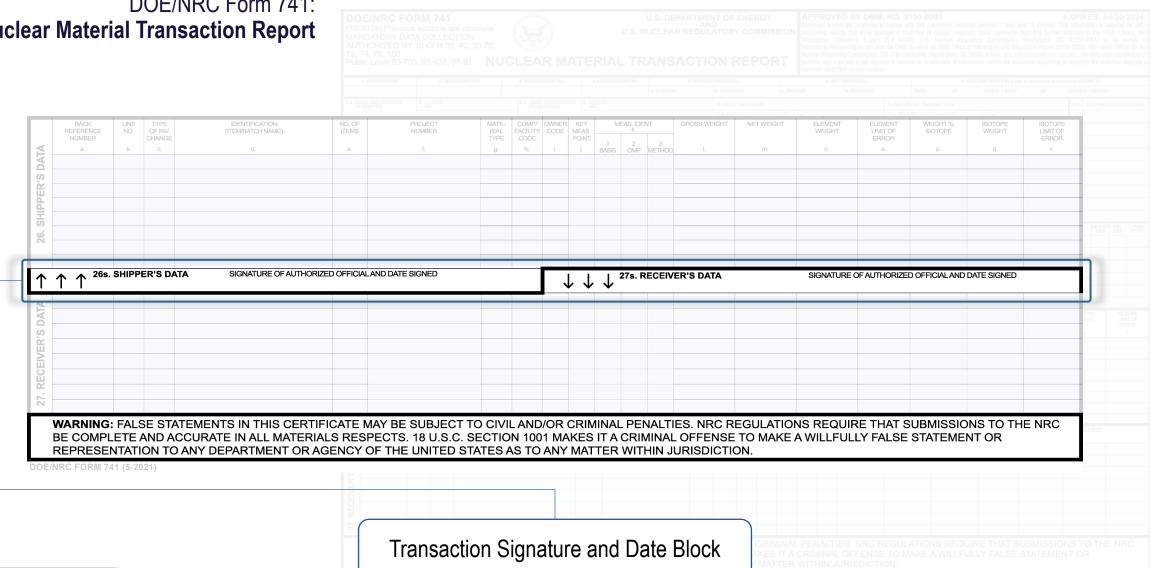


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How to complete and submit a Transaction Report.







Reporting

The "alphabet" that you will use to report to NMMSS consists of:

Numbers
Roman Letters
Le

Combination of Letters and Numbers

2D

The alphabet is referred to as "Codes"

There are specific and unique codes that you must use to report

What Where When Who





Reporting Identification Symbol (RIS)

Each NRC licensee/DOE facility is assigned a unique reporting identification symbol (RIS).

The RIS code remains the same for the life of your license, unless you ask for a new RIS code.

You must use your RIS code when reporting.

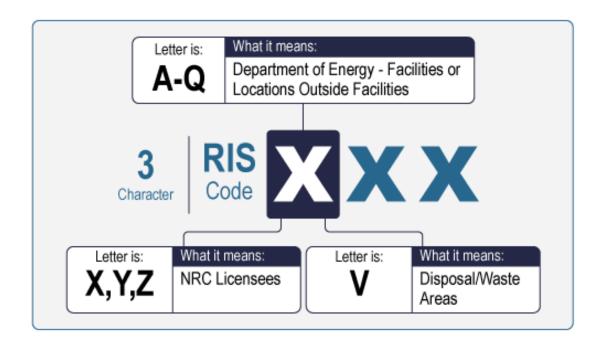
NMMSS tracks each NRC licensee/DOE facility by its assigned RIS code.

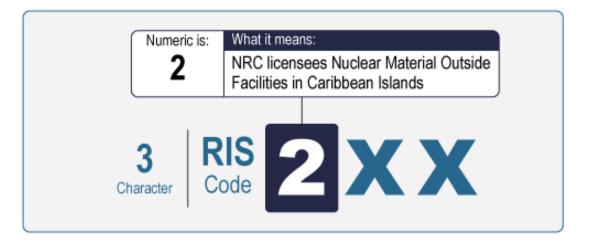
Note: Contact NMMSS if you need the RIS code for the other facility (shipping to or receiving material from) within/outside of the United States.





Reporting Identification Symbol (RIS) (Continued)

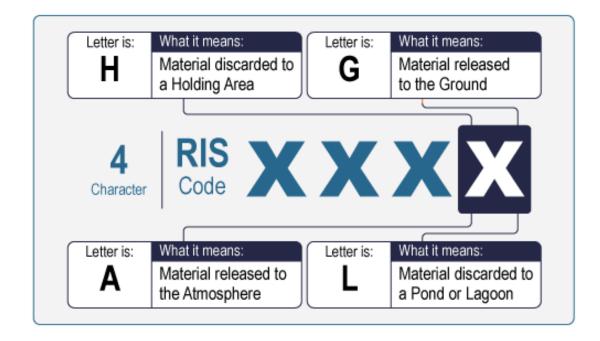


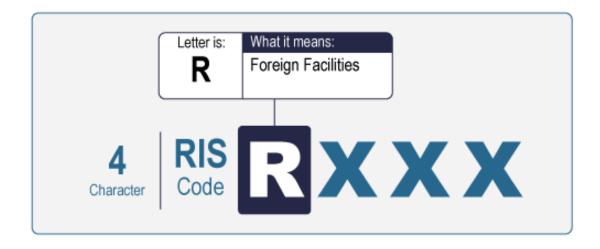






Reporting Identification Symbol (RIS) (Continued)









Material Type Codes

Material types must be reported to the whole reporting unit; MTC 83, 86, and 87 are exceptions.







Material Type (MT) Codes

DOE/NNSA Materials Tracked by NMMSS

Nuclear Material	Material Type	Reportable Units
Depleted Uranium	10	Whole Kilogram
Enriched Uranium	20	Whole Gram
Plutonium-242	40	Whole Gram
Americium-241	44	Whole Gram
Americium-243	45	Whole Gram
Curium	46	Whole Gram
Californium	48	Whole Microgram
Plutonium	20	Whole Gram







Material Type (MT) Codes (Continued)

DOE/NNSA Materials Tracked by NMMSS

Nuclear Material	Material Type	Reportable Units
Enriched Lithium	60	Whole Kilogram
Uranium-233	70	Whole Gram
Normal Uranium	81	Whole Kilogram
Neptunium-237	82	Whole Gram
Plutonium-238	83	Gram to Tenth
Deuterium	86	Tenth of Kilogram
Tritium	87	Hundredth of Gram
Thorium	88	Whole Kilogram
Uranium in Cascades	89	Whole Gram







Material Type (MT) Codes (Continued)

NRC Materials Tracked by NMMSS

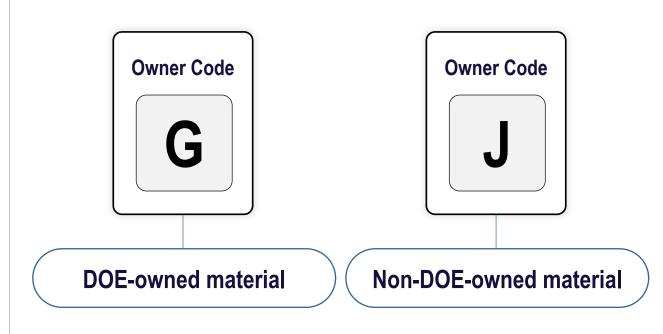
Nuclear Material	Material Type	Reportable Units
Depleted Uranium	10	Kilogram
U-235 in Enriched Uranium*	20	Whole Gram
Normal Uranium	81	Kilogram
Uranium in Cascade	89	Whole Gram
U-233	70	Whole Gram
Thorium	88	Kilogram
Plutonium	50	Whole Gram
PU-238	83	Tenth of Gram





Owner Codes

- Used to identify ownership of nuclear material for transaction, physical inventory, and material balance reporting
- Describes the ownership of material received or shipped
- Describes the ownership of the material at the time of the physical inventory
- Contact the NMMSS staff for instructions regarding the proper owner code to be used in a particular circumstance





Project Number

Project numbers provide information about DOE-owned nuclear materials located at DOE/NNSA facilities and NRC licensees throughout the United States and foreign countries.

Financial Reporting

Materials Management

Safeguards

Project numbers are identified using ten-character, alphanumeric designation, nine of which originate from the Budget and Reporting (B&R) code.



Project Number (Continued)

The structure is designed to facilitate material management through the identification of the following:

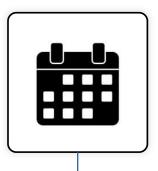




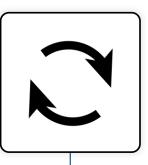




Project Number Changes



Project funding and direction can change at anytime; therefore, project numbers can change throughout the year.



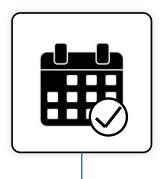
Changes outside the annual review period require an A-P (one-party project transfer)
741 submission





Annual Project Number Review

What is the Annual Project Number Review?



A service NMMSS provides **once a year** in anticipation of the new fiscal year

DOE field elements review active project numbers in NMMSS and ensure that project numbers

Contain an active B&R code

Reflect current programmatic needs



Annual Project Number Review (Continued)



The Annual Project Number Review begins **August 1st** and can last until NMMSS closes September

This Process Impacts:



Federal Program Managers

Field Elements

Material Managers

MC&A Analysts



Facilities with DOE-owned Material



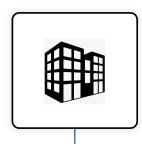


Fiscal Year Project Number Conversion (Continued)



NMMSS Report T-147

Project Number Conversion Worksheet to Operations Offices/Organizations



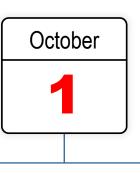
Operation
Offices/Organizations
update Worksheet
based on Budget and
Reporting Codes for
new Fiscal Year (FY)



Operations
Offices/Organizations
return Completed T-147
Worksheets to NMMSS



Authority reference files updated at NMMSS

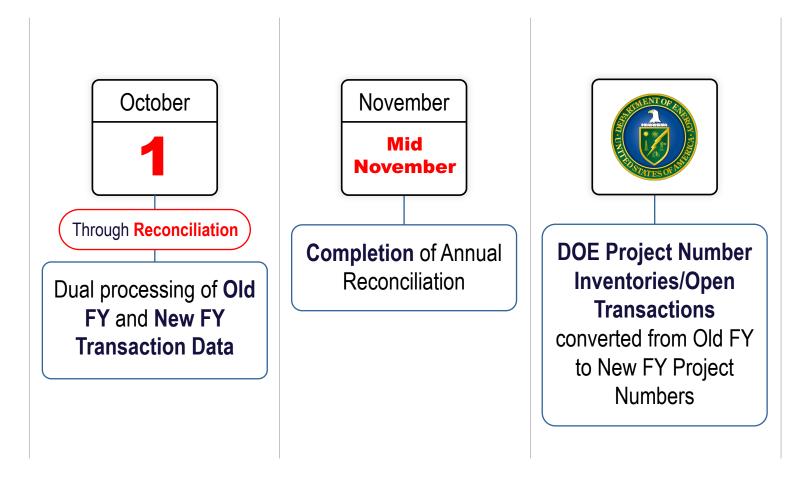


T-141 Project Number Listing produced and distributed





Fiscal Year Project Number Conversion (Continued)



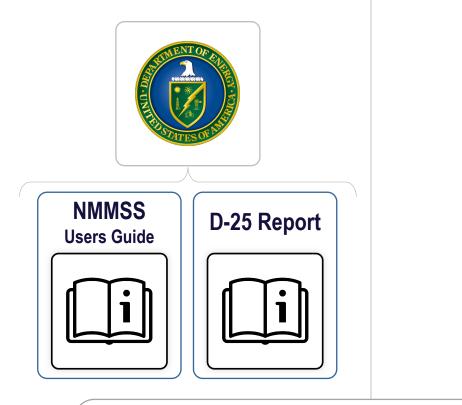




Composition Codes

The code that Identifies the Physical and/or Chemical form of the Nuclear Material at the time the Transaction occurs

List of composition codes can be found:





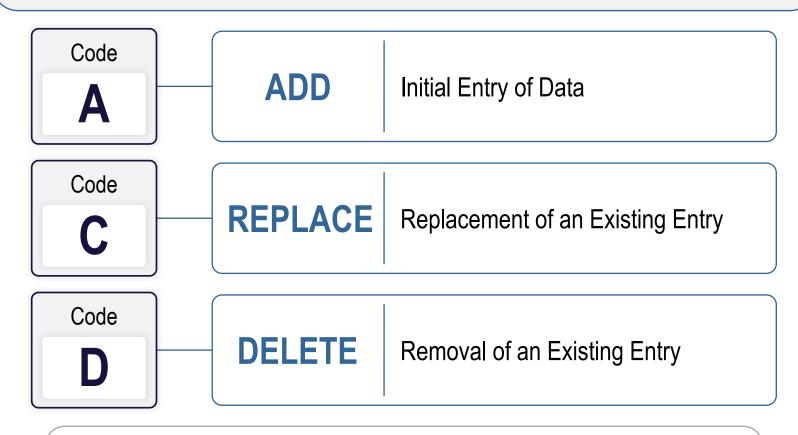


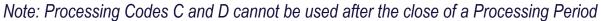
Note: DOE has a much larger list than the NRC.



Process Codes

The code that Identifies the specific type of **Processing Action** required of NMMSS









Action Codes

The code that Identifies the Type of Transaction being reported on DOE/NRC Form 741

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REFEREI NUMBE	ENCE	NO.	OF INV. CHANGE	IDENTI (ITEMBA	FICATION TCH NAME) d.	ITEMS	PROJE NUMB	ECT	MATE- RIAL TYPE	COMP/ FACILITY CODE	OWNER H	KEY IEAS. OINT	MEAS, IDENT	_			ELEMEN WEIGHT	T EL	LEMENT JMIT OF ERROR	d. RECEIVER'S ME e. RECEIVER'S CO nations Conly) WEIGHT % ISOTOPE	RRECTION ISO WE	TOPE IGHT	LIMI	NT O
REFEREI NUMBE	ENCE	NO.	OF INV. CHANGE	IDENTI (TEMBA	FICATION TOH MAME) d.	ITEMS	PROJE NUMB	ECT	MATE- RIAL TYPE	COMP/ FACILITY CODE	OWNER H	KEY IEAS. OINT	MEAS, IDENT	_			ELEMEN WEIGHT	T EL	LEMENT JMIT OF ERROR	d. RECEIVER'S ME e. RECEIVER'S CO nations Conly) WEIGHT % ISOTOPE	RRECTION ISO WE	TOPE IGHT	LIMI	NT C
REFEREI NUMBE	ENCE	NO.	OF INV. CHANGE	IDENTITI (ITEMBA	FICATION TOH MAME) d.	ITEMS	PROJE NUMB	ECT	MATE- RIAL TYPE	COMP/ FACILITY CODE	OWNER H	KEY IEAS. OINT	MEAS, IDENT	_			ELEMEN WEIGHT	T EL	LEMENT JMIT OF ERROR	d. RECEIVER'S ME e. RECEIVER'S CO nations Conly) WEIGHT % ISOTOPE	RRECTION ISO WE	TOPE IGHT	LIMI	NT O
REFEREI NUMBE	ENCE	NO.	OF INV. CHANGE	DENTI (ITEMBA	FICATION TOH NAME) d.	ITEMS	PROJE NUMB	ECT	MATE- RIAL TYPE	COMP/ FACILITY CODE	OWNER H	KEY IEAS. OINT	MEAS, IDENT	_			ELEMEN WEIGHT	T EL	LEMENT JMIT OF ERROR	d. RECEIVER'S ME e. RECEIVER'S CO nations Conly) WEIGHT % ISOTOPE	RRECTION ISO WE	TOPE IGHT	LIMI	NT O
REFEREI NUMBE a.	ENCE	NO.	OF INV. CHANGE	БЕМТ	FICATION TOH NAME) d.	ITEMS	PROJE NUMB	ECT	MATE- RIAL TYPE	COMP/ FACILITY CODE	OWNER H	KEY IEAS. OINT	MEAS, IDENT	_			ELEMEN WEIGHT	T EL	LEMENT JMIT OF ERROR	d. RECEIVER'S ME e. RECEIVER'S CO nations Conly) WEIGHT % ISOTOPE	RRECTION ISO WE	TOPE IGHT	LIMI	NT O
REFERE	ENCE	NO.	OF INV. CHANGE	ОЕМТН (ПЕМВА	PICATION TOH NAME) d.	ITEMS	PROJE NUMB	ECT	MATE- RIAL TYPE	COMP/ FACILITY CODE	OWNER H	KEY IEAS. OINT	MEAS, IDENT	_			ELEMEN WEIGHT	T EL	LEMENT JMIT OF ERROR	d. RECEIVER'S ME e. RECEIVER'S CO nations Conly) WEIGHT % ISOTOPE	RRECTION ISO WE	TOPE IGHT	LIMI	TOP NIT O ROF r.
REFEREI NUMBE a.	ENCE HER	NO.	OF INV. CHANGE c.	(темва	FICATION TO I NAME) d	e.	PROJECT NUMBER 1	ECT ER	MATE- RIAL TYPE	COMP/ FACILITY CODE	OWNER H	KEY LEAS. OINT 1 BASS	MEAS, IDENTI	_	L		ELEMEN WEIGH	T ELL	LEMENT JIMIT OF ERROR 0.	d. RECEIVER'S ME e. RECEIVER'S CO nations Conly) WEIGHT % ISOTOPE	ISO WE	TOPE IGHT 4.	LIMI	NT O
REFEREINUMBE a.	ENCE HER	NO. b.	OF INV. CHANGE c.	(темва	TCH NAME)	e.	PROJECT NUMBER 1	ECT ER	MATE- RIAL TYPE	COMP/ FACILITY CODE	OWNER H	KEY IEAS. OINT 1 BASIS	MEAS, IDENTI	3 (ETHOD	L		ELEMEN WEIGH	T ELL	LEMENT JIMIT OF ERROR 0.	d. RECEIVER'S ME e. RECEIVER'S CO risters Crity) WEIGHT '% ISOTOPE p.	ISO WE	TOPE IGHT 4.	LIMI	NT C
REFEREINUMBE a.	ENCE HER	NO. b.	OF INV. CHANGE c.	(темва	TCH NAME)	e.	PROJECT NUMBER 1	ECT ER	MATE- RIAL TYPE	COMP/ FACILITY CODE	OWNER H	KEY LEAS. OINT 1 BASS	MEAS, IDENTI	3 (ETHOD	L		ELEMEN WEIGH	T ELL	LEMENT JIMIT OF ERROR 0.	d. RECEIVER'S ME e. RECEIVER'S CO risters Crity) WEIGHT '% ISOTOPE p.	ISO WE	TOPE IGHT 4.	LIMI	NT C
REFEREINUMBE a.	ENCE HER	NO. b.	OF INV. CHANGE c.	(темва	TCH NAME)	e.	PROJECT NUMBER 1	ECT ER	MATE- RIAL TYPE	COMP/ FACILITY CODE	OWNER H	KEY LEAS. OINT 1 BASS	MEAS, IDENTI	3 (ETHOD	L		ELEMEN WEIGH	T ELL	LEMENT JIMIT OF ERROR 0.	d. RECEIVER'S ME e. RECEIVER'S CO risters Crity) WEIGHT '% ISOTOPE p.	ISO WE	TOPE IGHT 4.	LIMI	NT C
REFEREINUMBE a.	ENCE HER	NO. b.	OF INV. CHANGE c.	(темва	TCH NAME)	0.	PROJECT NUMBER 1	ECT ER	MATE- RIAL TYPE	COMP/ FACILITY CODE	OWNER H	KEY LEAS. OINT 1 BASS	MEAS, IDENTI	3 (ETHOD	L		ELEMEN WEIGH	T ELL	LEMENT JIMIT OF ERROR 0.	d. RECEIVER'S ME e. RECEIVER'S CO risters Crity) WEIGHT '% ISOTOPE p.	ISO WE	TOPE IGHT 4.	LIMI	NT C
REFEREINUMBE a.	ENCE HER	NO. b.	OF INV. CHANGE c.	(темва	TCH NAME)	0.	PROJECT NUMBER 1	ECT ER	MATE- RIAL TYPE	COMP/ FACILITY CODE	OWNER H	KEY LEAS. OINT 1 BASS	MEAS, IDENTI	3 (ETHOD	L		ELEMEN WEIGH	T ELL	LEMENT JIMIT OF ERROR 0.	d. RECEIVER'S ME e. RECEIVER'S CO risters Crity) WEIGHT '% ISOTOPE p.	ISO WE	TOPE IGHT 4.	LIMI	MTC
REFEREI NUMBE a.	ENCE HER	NO. b.	OF INV. CHANGE c.	(темва	TCH NAME)	0.	PROJECT NUMBER 1	ECT ER	MATE- RIAL TYPE	COMP/ FACILITY CODE	OWNER H	KEY LEAS. OINT 1 BASS	MEAS, IDENTI	3 (ETHOD	L		ELEMEN WEIGH	T ELL	LEMENT JIMIT OF ERROR 0.	d. RECEIVER'S ME e. RECEIVER'S CO risters Crity) WEIGHT '% ISOTOPE p.	ISO WE	TOPE IGHT 4.	LIMI	NT C





Action Codes (Continued)

Code	Description	Shipper	Receiver
Α	Identifies shipper's original data	X	
В	Identifies receiver's data accepting weights without measurement		X
С	Identifies shipper's adjustment or acceptance/ acknowledgment of a receiver's adjustment	X	
D	Identifies receiver's adjustment or acceptance/acknowledgement of a shipper's adjustment		X
Е	Identified receiver's independent measurement		X





Action Codes (Continued)

Code	Description	Shipper	Receiver
J	Identifies receiver's interim project data (DOE Specific)		X
M	Identifies other types of onsite receipts and removals reported on DOE/NRC Form 741	REM	REC
N	Indicates that the receiver will delay measurement beyond 10 days but within 60 days for source and LEU, and within 45 days for HEU		X
Р	Identifies in-place project transfers or uranium enriching contract reclassifications (DOE Specific)	X	





Action Codes (Continued)

Code	Description	Shipper	Receiver
S	Identifies receiver's data in accepting shipper's weights under a safeguards closure arrangement		X
U	Indicates that the receiver will delay measurement of material beyond 30 days (DOE Specific)		X
X	Obligation Exchange	X	
Y	Obligation Exchange		X
R	Obligation Removal (former Soviet Union)	Rem	Rem





Nature of Transaction (TI) Codes

This code is to be completed for DOE-owned material transferred under lease or loan agreements, pursuant to an enriching services agreement, or material sold or donated by or to DOE/NNSA.

This code is not to be completed for transfers of DOE-owned contract nuclear materials within or between DOE/NNSA programs, transfers of material owned by other U.S. government agencies, transfers of privately-owned material, or transfers to DOE/NNSA under 42 U.S.C. 2121(b) or (c), amended.





Nature of Transaction (TI) Codes (Continued)

TI Codes	Associated Activity
Α	Initiates loan/lease
В	Transfer of leased/loan material with no change in loan/lease responsibility
C D	Transfers loan/lease Return of leased/loaned material to DOE/NNSA for credit
E F	Sale for DOE/NNSA Pursuant to an enriching service agreement
G R	Sale to DOE/NNSA Transfer from Government-to-private inventory other than by sale or enriching service agreement
S	Transfer from private to Government inventory other than by sale or enriching service agreement





TI Codes | For/To Accounts

To Account Used to Signify the RIS that has Financial, Programmatic Responsibility after a Transaction has taken Place

Generally applicable when DOE-owned Material is Involved





(Continued)

TI Codes For/To Accounts

Required for uranium enrichment product delivered by DOE (F)

Account **Edit** Checks

Required to identify the facility that is purchasing material from DOE (E)

Required to identify the facility to which DOE is donating material (R)

Required to identify the DOE facility that is programmatically responsible for transfers to/from licensee or foreign RIS







TI Codes For/To Accounts

For Account

Used to signify the RIS that has financial, programmatic responsibility **prior** to a transaction

Applied (generally) when DOE-owned material is involved





(Continued)

TI Codes For/To Accounts

For Account **Edit** Checks

Required to identify the facility that is selling material to DOE (G)

Required to identify the facility that is donating material to DOE (S)

Required for uranium enrichment product delivered to DOE (F)





Supplementary Instructions

Appendix

Provides additional tables to further assist personnel in determining the information needed for nuclear material reporting.

RIS Code	Applicable to	RIS Code	Applicable to
ANY	Any RIS except DoD RISs	CONV	Contractor V RISs
CON	Any contractor RISs	SEP	For isotopic separation facility RISs
LIC	Licensee RISs	DoD	For Department of Defense
FOR	Foreign RISs	DoD	(DoD) RISs

NMMSS Users Guide 2.1

NMMSS Users Guide 2.1

Table C-1. Instructions for Preparation of Transaction Data Items

Transaction Type	S/R (1)	TI Code	S RIS	R RIS	For Account	To Account	Owner Code Required
DOE-owned material; transfer between contractors		Blank	CON	CON	Blank	Blank	G
2. Transfer of non-DOE/NNSA owned		Blank	ANY	ANY	Blank	Blank	J
3. DOE-owned project material transfers to/from licensees (non-lease or loan)		Blank	(2)	(2)	(3)	(3)	G
4 A Silver I and CDOD	S	Α	ANY	ANY	(6)	LIC, FOR	G
4. Initiates loan/lease of DOE-owned material	R	A	ANY	ANY	(6)	LIC, FOR	G
5 Transfer of lessed/lessed materials change in		R	ANV	ANV	(7.0)	(Q Q)	G I

12. Donated material to others by DOE/NNSA		R	(Same re	quirement a	s transaction '	Type 8)	
13. Donated material to DOE/NNSA by others		S	(Same re	quirement a	s transaction	Type 11)	
14. In-place transactions	In-place transaction should change ownership. Use data requirements of applicable transaction type as a guide. Shipper and receiver must be same RIS.						
 In-place project transfer 	Shipp	er and rec	eiver mus	t be same R	IS. Use DOE	Form DOE/N	RC F 741
 Exports; shipments to foreign countries (R RISs) 	Transactions are prepared in the same manner as transfers to/from licensees except reporting entity must report both sides.						
17. Imports; receipts from foreign countries (R RISs)	Transactions are prepared in the same manner as transfers to/from licensees except reporting entity must report both sides.						
18. Inventory changes—removal		Blank	ANY	ANY	(12)	Blank	G, J
19. Inventory changes—receipt		Blank	ANY	ANY	Blank	(14)	G, J
20. Transfers involving waste facilities (V RISs)		Blank	(13)	(13)	Blank	Blank	G, J
21. Shipper or receiver adjustment	Must have an entry in correction field (Block 4). Used to correct prior entries, therefore, prepare the adjusting entry using the same guidelines as the original entry for data records numbers 2 and 5, back out the original line entry in error and add the correct entry. Any of the permissible owner codes for the applicable transaction type should be accepted independently without the presence of a required owner code.						

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Supplementary Instructions

- · CONT COMMENT FROM
- SEP for isotopic separation facility RISs
- · DoD for Department of Defense (DoD) RISs

Within the tables, specific numbers are shown in parentheses to highlight some of the following notes.

- For those transaction types where there is a difference between shipper's (S) and receiver's
 (R) reporting requirements, an S and an R should exist in this column to reflect the
 differences. Only those data items that have different requirements should be separated into
 the S row and R row. All other common data items should exist on the row between the S
 and R.
- When to licensee, shipper RIS may be ANY, receiver RIS must be LIC. When from licensee, receiver RIS may be ANY, shipper RIS must be LIC.
- For and to accounts both contain contractor RIS when owner is G, there is no change in ownership, and shipper and /or receiver have licensee or foreign RIS. RISs identify the DOE/NNSA contractors having programmatic responsibility for the material before and after shipment.
- DoD or mutu
- Must contain destination for
- Required only
- Should be lice

C-1

NMMSS Users Guide 2.1

- 8. Should be licensee or foreign RIS.
- For/to accounts cannot be equal.
- 10. For/to accounts should be equal.
- 11. Required only when receiver has a licensee or foreign RIS; then it should be contractor RIS.
- Appropriate contractor RIS in the account if shipper's owner code is G and shipper has a licensee or foreign RIS; the field is blank otherwise.
- Shipper or receiver RIS must be in the V series.
- 14. Appropriate contractor RIS in the account if receiver's owner code is G and receiver has a licensee or foreign RIS; the field is blank otherwise.
- 15. QZA, QZB, and QZD are restricted to material types 20, 40, 50, 70, and 83.
- 16. If the DOD's RIS is QZE the Type of Inventory Change code should be either 14 or 44; if the RIS is QZC the Type of Inventory Change code should be either 15 or 45; if the RIS is QZA, QZB, or QZD the Type of Inventory Change code should be either 16 or 46.

Table C-1. Instructions for Preparation of Transaction Data Items							
Transaction Type	S/R (1)	TI Code	S RIS	R RIS	For Account	To Account	Owner Code Required
Transaction Type	è	(1) Code	S RIS R RIS	For Account	Code Account Required		~ 1
DOE-owned material; transfer between contractors		Біапк	CON	CON	ыапк	Віапк	G
2. Transfer of non-DOE/NNSA owned		Blank	ANY	ANY	Blank	Blank	J

contractors							
2. Transfer of non-DOE/NNSA owned		Blank	ANY	ANY	Blank	Blank	J
3. DOE-owned project material transfers to/from licensees (non-lease or loan)		Blank	(2)	(2)	(3)	(3)	G
4 Likita landan SDOF and a staid	S	Α	ANY	ANY	(6)	LIC, FOR	G
4. Initiates loan/lease of DOE-owned material		Α	ANY	ANY	(6)	LIC, FOR	G
5. Transfer of leased/loaned material; change in financial responsibility		В	ANY	ANY	(7,9)	(8,9)	G, J
6. Transfer of leased/loaned material; no change in financial responsibility		С	ANY	ANY	(7,10)	(7,10)	G, J
		С	ANY	ANY	(8,10)	(8,10)	G, J
7. Leased/loaned material returned to DOE/NNSA for credit		D	ANY	ANY	LIC, FOR	(11)	G, J
		D	ANY	ANY	LIC, FOR	(11)	G, J
Sale for account of DOE/NNSA	S	Е	ANY	ANY	(12)	LIC, FOR	G, J
6. Sale for account of DOE/NISA		L				I	

15. In-place project transfer	Shipper and receiver must be same RIS. Use DOE Form DOE/NRC F 741.					
16. Exports; shipments to foreign countries (R RISs)	Transactions are prepared in the same manner as transfers to/from licensed except reporting entity must report both sides.					
17. Imports; receipts from foreign countries (R RISs)	Transactions are prepared in the same manner as transfers to/from license except reporting entity must report both sides.					n licensee
18. Inventory changes—removal	Blank	ANY	ANY	(12)	Blank	G, J
19. Inventory changes—receipt	Blank	ANY	ANY	Blank	(14)	G, J
20. Transfers involving waste facilities (V RISs)	Blank	(13)	(13)	Blank	Blank	G, J
21. Shipper or receiver adjustment	Must have an entry in correction field (Block 4). Used to correct prior entries, therefore, prepare the adjusting entry using the same guidelines as the original entry for data records numbers 2 and 5, back out the original line entry in error and add the correct entry. Any of the permissible owner codes for the applicable transaction type should be accepted independently without the presence of a required owner code.					

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Additional Transaction Field Elements



Enter the total gross weight of the shipment in kilograms.

Total Volume

Enter the total volume for transfers to disposal/waste areas.

Identification (Item/Batch Name)

An entry is required on import or export transactions.

Number of Items

The number of similar items (e.g., cylinders, packs, drums, bottles, tank vessels) to which the line of data pertains.





Additional Transaction Field Elements (Continued)

Element/
Isotope Limits
of Error

For transactions involving SNM or tritium, measurement uncertainties are entered as weight quantities in accordance with the established reporting unit for the MT.

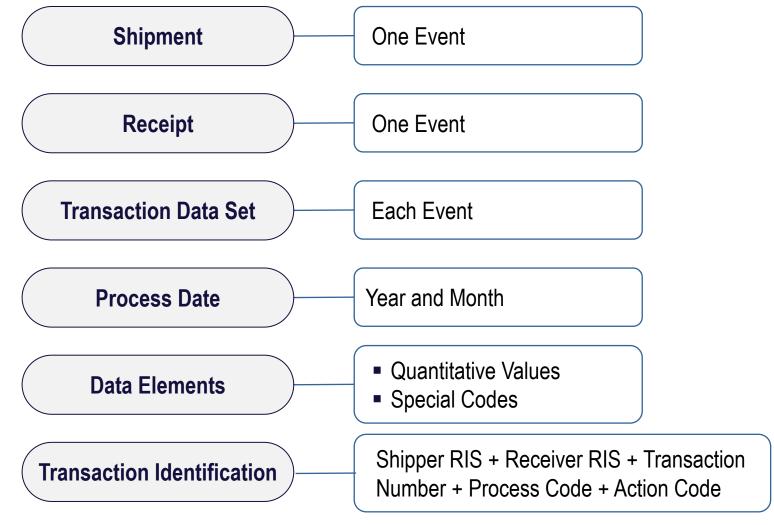
Country of Obligation

If required due to nuclear material being subject to a nuclear cooperation agreement (NCA), enter the two-character obligation code for the country or entity designation relating to the NCA(s).





Transaction Terminology







Date Terminology

Action Date

MMDDYYYY

Date that the activity
(Shipment, Normal Operating Loss)
actually took place

Capture Date

MMDDYYYY

Date that DOE/NRC Form 741 was entered into the Database

Process Period

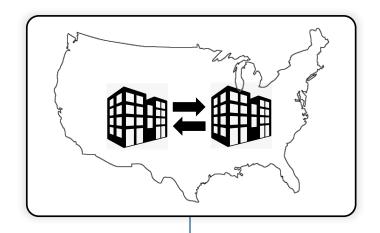
YYYYMM

Date of the process Month open during which the Transaction was filed





Domestic Transaction



Transfer of Nuclear Material from one U.S. facility to another **U.S. facility**.





In-Transit Accounting Defined

In-transit accounting is specific to DOE transaction reporting, not NRC.

All shipments made by the end of the month and reported to NMMSS by the closing date for that month are considered received and on the accounting books of the receiving facility and removed from the books of the shipping facility.

Receipt of government-owned material must be acknowledged during the same month as the shipment.





In-Transit Accounting Requirements

Shipper Responsibility

The shipper, during the last **five (5) calendar days of the month**, shall provide the receiver with essential details about the shipment:

Transfer Series
Transaction Number

Material Type

Element and Isotope Weights

Project numbers (Owner Code "G")

Obligation Tracking Data Blocks 17 - 21

Number of Items

Composition Codes

Owner Codes

Date of Shipment





In-Transit Accounting Requirements

Receiver's Responsibility

Assure that government-owned material is slotted into a receiving project by submitting an action code "J" transaction.

The action date for the "J" data set must be in the same month as the shipment.

Submit a "N" or "U" transaction as appropriate, if there will be a delay (measurement) in submitting the final data (B or E).





In-Transit Accounting

Example 1

Description

The shipper's data is on file and the receiver's interim project data is on file. In addition to the receiver's final data submitted during the month following the shipment, the <u>receiver's</u> data is used in issuing reports and determining inventory balances for the receiver.





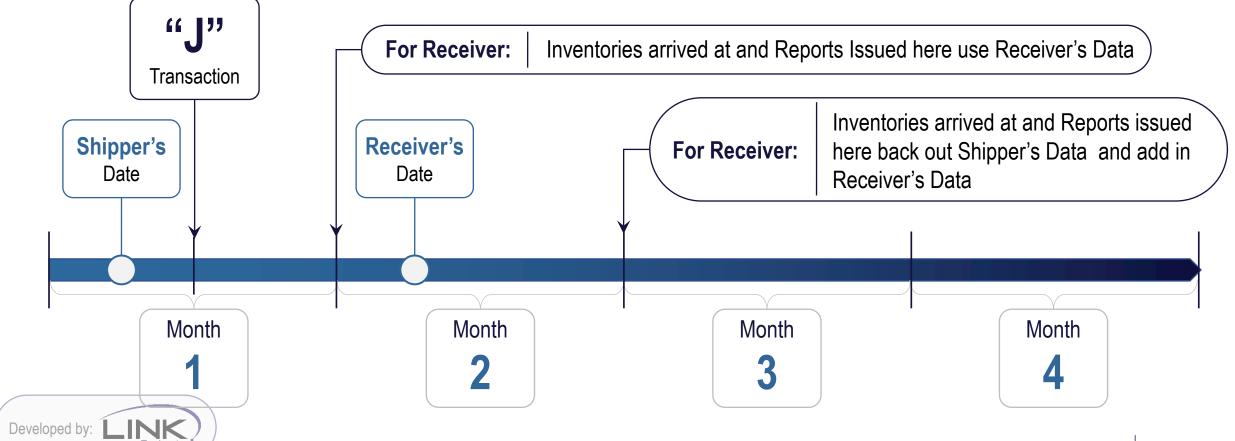


In-Transit Accounting

Example 2

Description

The shipper's data is on file with only the receiver's interim data "J" on file at the end of the month (1). NMMSS uses the "J" data determining inventory balances for the receiver. During month two (2) the receiver's final data is on file, the "J" data is backed out and the receiver's final data is used determining inventory balances for the receiver.







Transfers



Contractors are to obtain prior written authorization from the program office responsible for the DoD activity, or from the Defense Program Administrator.

Authorization for transfers to the Naval Reactors Program will be obtained from the Deputy Assistance Secretary for Naval Reactors, NNSA.

All transfers require the completion of a DOE/NRC F 741 by the contractor.

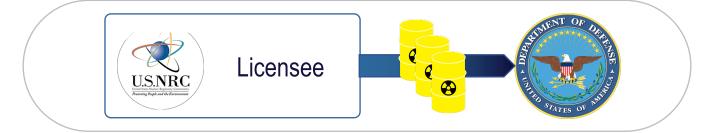
DoD is not required to submit a DOE/NRC 741 (generated by NMMSS).







Transfers



DoD contacts DOE Headquarters to determine which DOE site will act as liaison for DoD and the licensee.

The responsible program office will designate the DOE site office or field element to handle the transfer.

The designated DOE site will advise the licensee to initiate a DOE/NRC 741 form in accordance with preparation and distribution instructions that apply to licensee.







Nuclear Material Categories

91B

Nuclear Material designated for use by the DoD in the interest of national defense.

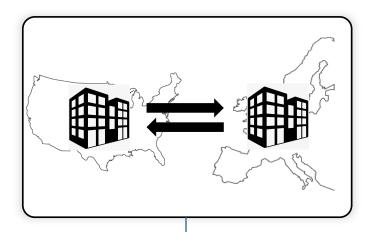
91C

Nuclear Material designated for sale, lease or loan to other nations in the interest of mutual defense.





Import/Export Transaction



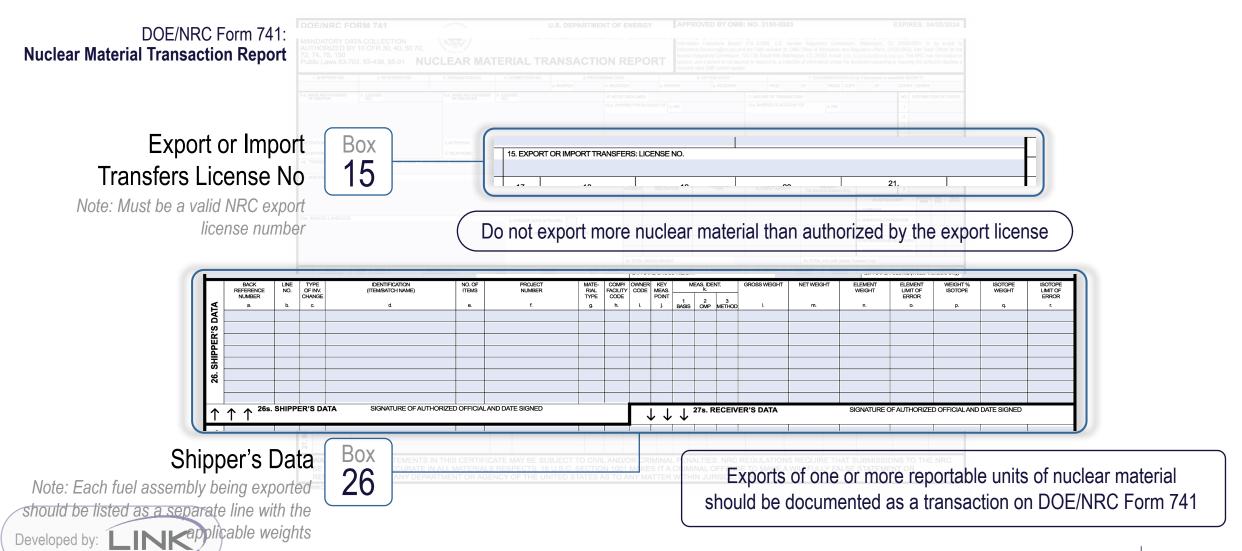
Transfer of Nuclear Material to/from one U.S. facility to/from a foreign facility.





Reporting **Exports**

Exports of Nuclear Material

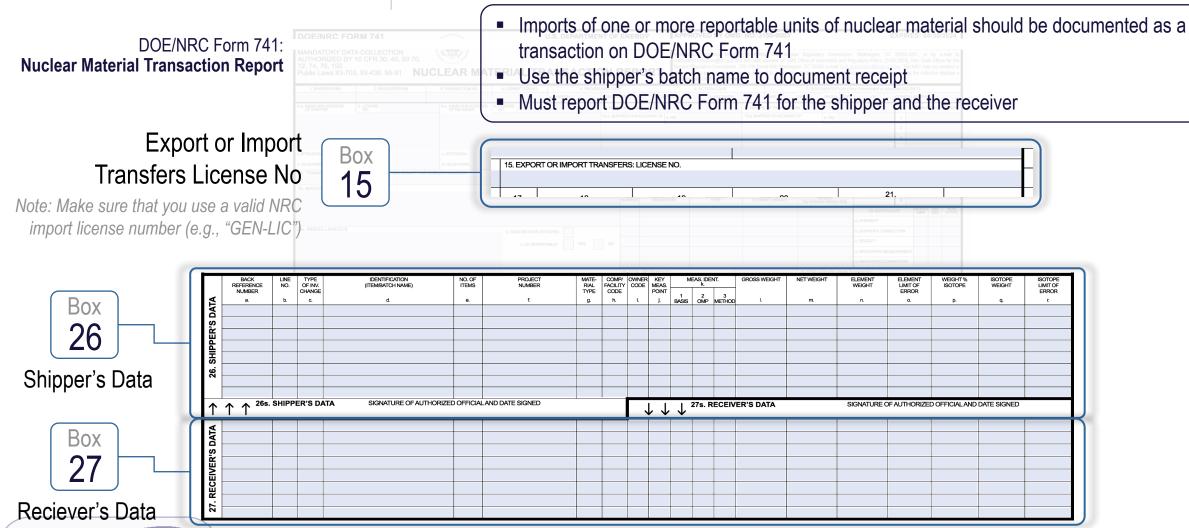




Reporting Imports

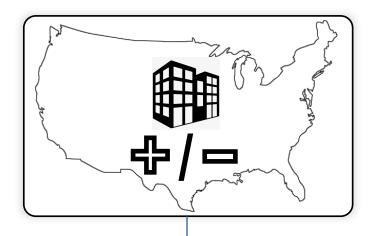
Developed by:

Imports of Nuclear Material





One-Party Transaction



U.S. facility on-site nuclear material changes that result in a change to a site's inventory.



One-Party Transaction Defined

A one-party transaction is a (DOE/NRC Form 741) transaction used to report an on-site gain or loss of reportable nuclear materials to NMMSS.

It is not part of a shipment or receipt involving another facility.





One-Party Transaction Uses

To report **gains** and **losses** of your Material which affect your Inventory

To report **stand-alone** concise Note (IAEA) To **correct** previously reported data (In Special Cases)

To report obligation activity
(In Special Cases)

To send one-party transactions to NMMSS before or at the time you report your annual Material Status Report (MSR)





One-Party Transaction Uses (Continued)

If it is necessary for you to correct previously reported data with a one-party transaction

In special cases using a one-party transaction is the best way to make certain changes.



A NMMSS analyst will assist you in these instances, if necessary.



One-Party Transaction Report Process

The same as shipment or receipt transactions, except for the following:

Your RIS Code is used for **both Shipper and**Receiver

Action Code is

Inventory Change Type (ICT) must be used Corrections made to previously reported one-party transactions are done with an "M" Action Code

Gross weight is **not reported**

Number of items is **not required** in all circumstances

Special edit checks apply to some ICT codes used on a one-party transaction







On-Site Gains

Include all Receipts on your Inventory

Inventory Change Type (Use Code)	Type of Inventory Change			
NP	Production			
EN*	From other materials (ED, NE, ND, DE, DN, EE)			
34	Receipts - Miscellaneous			



^{*} Use the correct change code when performing blending operations and must be paired on the same transaction





On-Site Gains

Include all Receipts on your Inventory

Inventory Change Type	Type of Inventory Change
11	Procurement from DOE/NNSA
13	Purchase Procurement – For Account of DOE/NNSA
21 22	Production From Other Materials
34 37	Receipts - Miscellaneous Procurement by Others
38 39	Donated Material – From DOE/NNSA to Others Donated Material – From Others to DOE/NNSA







On-Site Losses

Include all removals on your Inventory

Inventory Change Type (Use Code)	Type of Inventory Change				
TN	Decay				
EN*	To other materials (ED, NE, ND, DE, DN, EE)				
54	Shipments - Miscellaneous				
LN	Fission and Transmutation				
LD	Normal operations losses and for/or measured discards				
MF	Inventory difference				
65	Rounding Bias				

^{*} Use the correct change code when performing blending operations and they must be paired on the same transaction







On-Site Losses

Include all removals on your Inventory

Inventory Change Type	Type of Inventory Change
41	Extended in Space Programs
42	Sales to DOE/NNSA
43	Sales to Others for the Account of DOE/NNSA
47	Expended by DOE/NNSA Tests
48	Routine Tests
54	Shipments - Miscellaneous
58	Donated Material – to DOE/NNSA by Others
59	Donated Material – to Others by DOE/NNSA

Inventory Change Type	Type of Inventory Change
65	Rounding Bias
71	Degradation to Other Materials
72	Decay
73	Fission and Transmutation
74	Normal Operational Losses/Measured Discards
75	Accidental Losses
76	Approved Write-offs
77	Inventory Differences





Blending Operations

For Blending Operations, use the following Codes:







71



Things to Remember

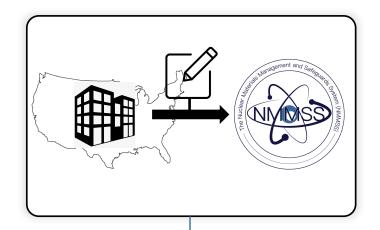
For blending, line pairing is required.

One line denotes the original material and the other denotes the resulting material.





Transaction Adjustment



U.S. facility reporting the correction of transactions previously reported to NMMSS.



Process Code Change

You may change or delete data on previously submitted transactions that are in an open **month** by resubmitting using a specific process code.

Recall that process codes **C** (replacement of data set) and D (deletion of data set) can only be used in an open month.



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Process Code Change (Continued)

If the action date for the transaction (741) requiring adjustment is within a NMMSS processing month that has been **closed**, a process code transaction (741) resubmission cannot be issued to NMMSS.

Instead, an adjustment document must be submitted that includes the following:

Correction Number

Back Reference

Action Code (C, D, M, or P)

Reporting of back reference is **optional** for DOE facilities.





When is an Adjustment Required?

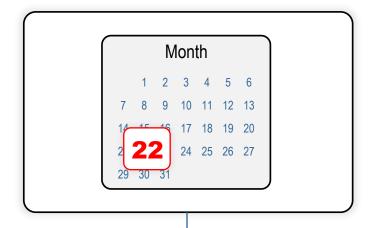
An adjustment is required when correcting a previously reported transaction that has been processed and the month in which it was processed is **closed**.

Once a transaction is closed, modification of the transaction is **no longer permitted**. Thus, a correction 741 must be submitted.





Open and Closed Process Months

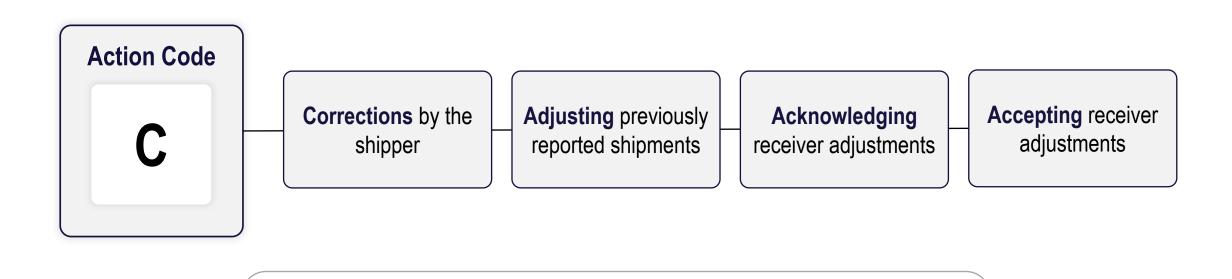


NMMSS normally closes the database processing month around the **22nd** of each month for the previous months data received.





Transaction Adjustment Codes

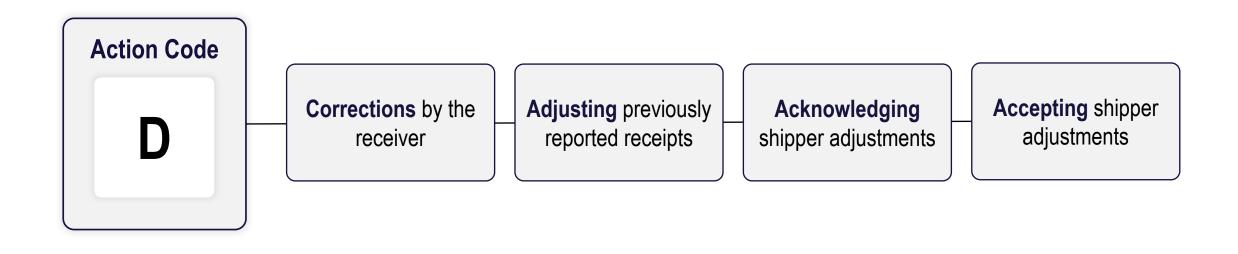


Note: This must be compatible with the receiver's side of the transaction.





Transaction Adjustment Codes (Continued)

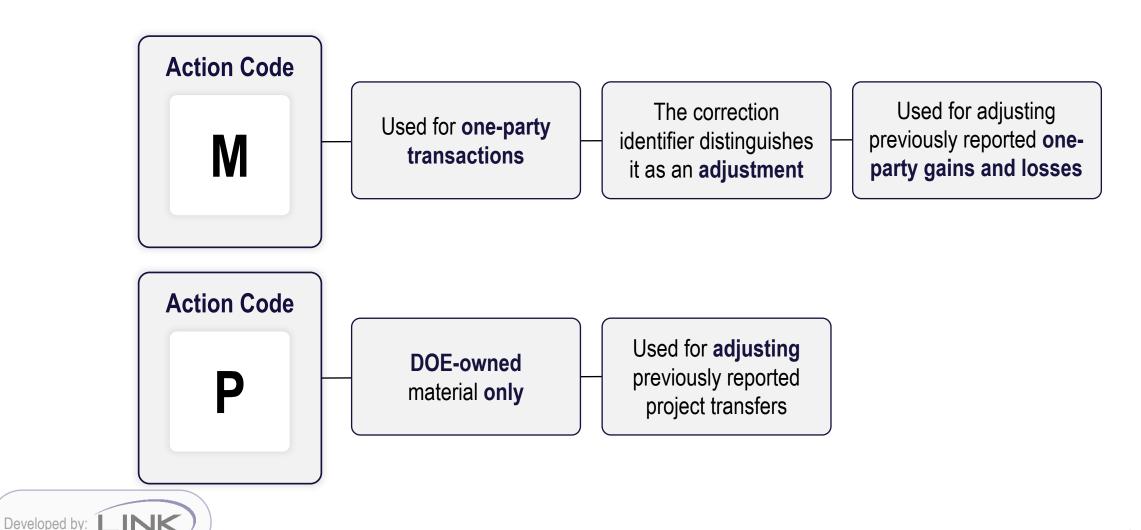


Note: This must be the same as the shipper's correction.



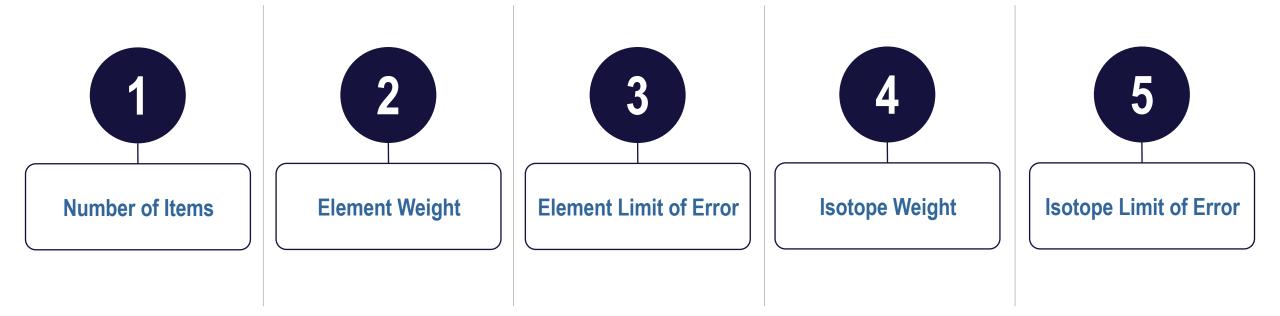


Transaction Adjustment Codes (Continued)



Adjustment Negating Fields

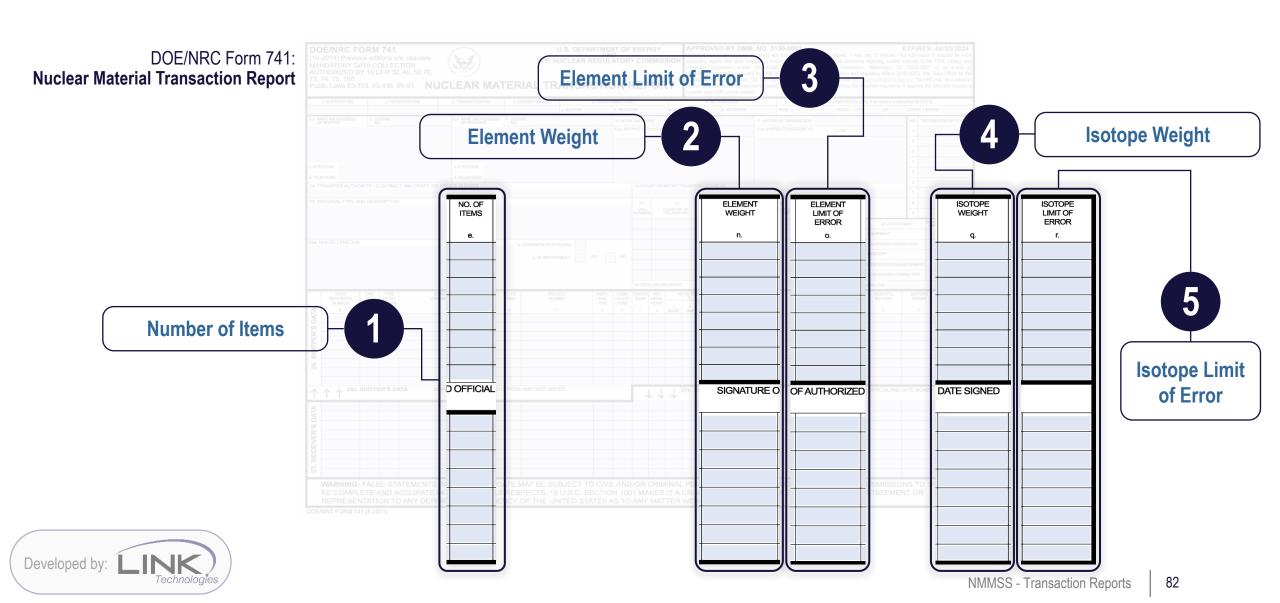
There are a total of **5 numeric fields** to be negated on adjustment transaction reports, if they were originally reported:







Adjustment Negating Fields (Continued)



Adjustment Back Reference Components

Every detail line declared in an adjustment transaction (741) shall specify a back reference.

The back reference provides an association with other document lines (in either the current or source document) that are affected by the adjustment line.

Back reference components are only required for NRC licensees.





Adjustment Back Reference Components (Continued)

Correction Identifier

(Change Digit)

- May be alphabetic or numeric
- First character

Reference to the "was" document being corrected



Reference to the "should be" document now being completed

Line Number

Second and Third Digit

Reference to the "was" detail line being corrected



Reference to the "should be" detail line document now being completed





Adjustment Change Digit Types

Change digits can either be alphabetic or numeric

A **numeric correction** number requires a response from the other party.

An **alphabetic correction** number does not require a response from the other party.





Adjustment Transaction Action Date

The action date on an adjustment can be the same as your original transaction, or it can be the current date.

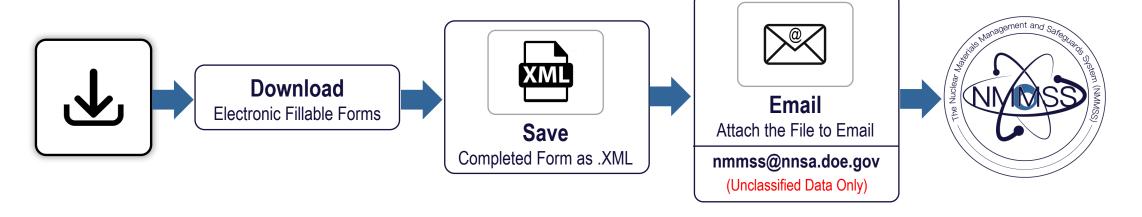
In either case, be sure to report the difference on your next annual physical inventory and material balance reports.

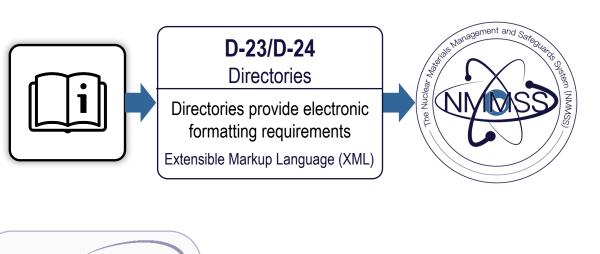
Material balance reports are only required for NRC facilities.

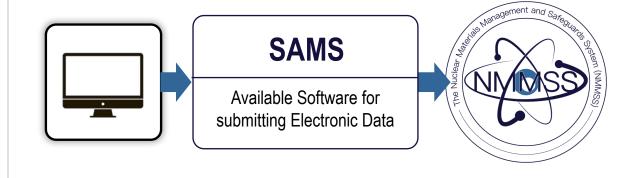




Electronic Submission Formats









Transaction Report Due Dates

Reminder



You must report **shipments** within **one working day**.



Working Days

You must report **receipts** within **ten working days**.



You must report error correction within one working day.





Validation of Transactions

Numbering Scheme Requirements

Each transaction must have its own unique number

Owner Code

G (DOE-owned) or J (non-DOE owned)

Blending Operations

Codes 22/71 for DOE or E-N, D-E, etc.

Duplicate Data Sets Different Process
Codes



Possible Issues with Reporting

RIS Codes

Import/Export License

Timing of Reporting

Correcting Transactions





Questions



