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Revision 4

Instructions for Completing Nuclear Material Transfer Reports

(DOE/NRC Forms 741, 741A, and 740M)

Effective Date: February 1, 2000

Issued by the
U.S. Nuclear Regulatory Commission
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DF02

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ABSTRACT

NRC Regulations require each licensee who ships, receives or adjusts their physical inventory or source or special nuclear material to document and report such activities. The documentation is submitted using the DOE/NRC Form 741 or 741A. Licensees may need to provide additional information on some imports or exports of source or special material. The additional information is reported using DOE/NRC Form 740M. This NUREG contains the reporting instructions for licensees to follow in preparing these forms.

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Additional References

The Nuclear Materials Management and Safeguards System (NMMSS) documents listed below are referenced in the following pages. To request the below listed manuals, telephone the NMMSS office currently located in Norcross, Georgia, (770) 662-8110.

The DOE Directory of Reporting Identification Symbols NMMSS Report D-2

The NRC Directory of reporting Identification Symbols NMMSS Report D-3

International Nuclear Facilities Codes Manual NMMSS Report D-15

Personal Computer Data Input for NRC Licensees, NMMSS Report D-24

Transaction Composition Code Reference List NMMSS Report D-25

ANSI Codes Report D-50A-109

U.S. NUCLEAR REGULATORY COMMISSION INSTRUCTIONS FOR COMPLETING NUCLEAR MATERIAL TRANSFER REPORTS

DOE/NRC Form 741 - Nuclear Material Transaction Report and DOE/NRC Form 740M - Concise Note

I. PURPOSE AND SCOPE

The U.S. Nuclear Regulatory Commission (NRC) and the U.S. Department of Energy (DOE) jointly utilize the Nuclear Materials Management and Safeguards System (NMMSS). This System is the United States national data base used by DOE and NRC for tracking nuclear material.

Common reporting forms and formats are used to minimize the reporting burden upon industry members required to provide nuclear material data to one or both agencies in accordance with prevailing regulations or contractual obligations. In this manner, the licensee[1] is able to file one report and meet the reporting requirements of both NRC and DOE, rather than having to file different reports for each Agency-required response. Compliance with specific reporting requirements is monitored by the agency for which the specific data is required.

See Section VII if handling Government owned, leased or loaned material.

A. Transaction Data

The DOE/NRC Form 741, Nuclear Material Transaction Report, hereafter referred to for conciseness as DOE/NRC Form 741, is the means for entering transaction data into the NMMSS. DOE/NRC Form 741 must be completed in accordance with the instructions in this NUREG and must be submitted in computer readable format to identified recipients. Instructions for creating the computer readable submittal are found in NMMSS Report D-24, "Personal Computer Data Input for NRC Licensees."

DOE/NRC Form 741 is used to report physical transfers of nuclear materials between facilities. The report is also used to convey information on events that otherwise increase or decrease nuclear material categories within a facility, such as inventory corrections.

The NMMSS relies heavily upon the quality of the data reported by the facilities involved in nuclear activity. The data submitted to the NMMSS are subject to

[1]The term "licensee" indicates an NRC or Agreement State licensee or an NRC Certificate Holder.

evaluation according to the restrictions placed upon nuclear activity by the policies of various governing agencies of the United States. After data is verified as acceptable within restrictions of the system, it is entered into the NMMSS database.

Nuclear material transaction reports must be provided to NMMSS through a computer-readable format of DOE/NRC Form 741, following the instructions in this NUREG and NMMSS Report D-24. Both the shipper and the receiver are required to submit DOE/NRC Form 741. The receiver should confirm that the quantity received is consistent with the shipper's report. [NOTE: When significant shipper-receiver differences (SRDs) are identified, they must be resolved and their root causes corrected.] The regulatory intent is to require material control and accounting (MC&A) systems to promptly detect and resolve all significant SRDs. Such comparisons are important to confirm that shippers' and receivers' values are acceptable for establishing the book accounting amounts with received material, and to detect unacceptable shippers' or receivers' values. Comparisons typically can include: item verification, seal integrity, gross weighing checks, Non Destructive Assay (NDA) measurements (if appropriate) and destructive measurements (if appropriate).

B. Regulatory Authority

Title 10 of the US Code of Federal Regulations (CFR) sets forth reporting requirements for specified activities as follows.

Reporting transactions for special nuclear material:

NRC Regulations 10 CFR 70.54, 72.78, 74.15, 75.34, 76.113, 76.115, 76.117, and 150.16 state, in part, that each licensee who transfers or receives special nuclear material (SNM) of any origin shall complete in computer-readable format, a Nuclear Material Transaction Report. This should be done in accordance with instructions in this NUREG document whenever the licensee transfers or receives a quantity of SNM of 1 gram or more of contained uranium-235, uranium-233, or plutonium.

Reporting transactions for source material:

NRC Regulation 10 CFR 40.64(a) states, in part, that "except as specified in paragraphs (d) and (e) of that section, each licensee who transfers, receives or adjusts the inventory, in any manner, of uranium or thorium source material of foreign origin by 1 kilogram or more or who imports or exports 1 kilogram of uranium or thorium source material of any origin shall complete a Nuclear Material Transaction Report in computer-readable format."

NRC Regulation 10 CFR 150.17(a) states, in part, that "except as specified in paragraph (d) of this section, each person who, pursuant to an Agreement State specific license, transfers or receives or adjusts the inventory in any manner by 1 kilogram or more of uranium or thorium source material of foreign origin or who imports 1 kilogram or more of uranium or thorium source material of any origin shall complete and submit in computer-readable format Nuclear Material Transaction Reports."

In accordance with 10 CFR 40.64 and 150.17, DOE/NRC Form 741 is required for transactions involving foreign origin source material. Imports and exports are to be reported by licensees regardless of origin. For Agreement State licensees, the reporting of imports of source material of any origin is required.

Reporting transactions for source material or special nuclear material in accordance with an agreement with the International Atomic Energy Agency (IAEA):

NRC Regulation 10 CFR 75.31 requires licensees to complete and distribute DOE/NRC Forms 741 for any source or special nuclear material inventory changes, including shipments, receipts, onsite gains or losses or any other inventory adjustment. Imports and exports are to be reported regardless of origin. These reports must be in computer-readable format and must be based on the records kept in accordance with paragraph 10 CFR 75.22, 75.31, 75.32, 75.33, 75.34 and 75.35.

Compliance with these reporting requirements is attained by completion of DOE/NRC Form 741 and transmittal in computer readable format following the guidance in this NUREG and in NMMSS Report D-24.

In addition, the submission of DOE/NRC Form 741 is normally required as a matter of contract or lease administration for all reportable quantities of DOE-owned nuclear material transferred (see DOE Orders, series 5600 and DOE Manual M474.1-2, Nuclear Materials Management and Safeguards System Reporting and Data Submission).

C. Reporting/Distribution Requirements

Reports are required whenever nuclear material in the above types and amounts moves between locations or operations that have been assigned different Reporting Identification Symbols (RIS) , and for the reporting of SNM and source material inventory changes. The frequency for reporting nuclear material loss data (including burn up, production, measured discards, and decay) is as follows unless otherwise authorized by the NRC:

HEU and LEU fuel fabrication plant--every 2 months
Power and research reactors; all others--every 6 months
Source material--once per year
Enrichment plants-- every 2 months

A DOE/NRC Form 741 is initiated by the shipper. If the licensee is involved in a transfer of material with a party that is not required to prepare a DOE/ NRC Form 741 then the licensee must prepare and submit both the shipper's and receiver's portion of the Form 741. The most common example would be when a domestic facility is involved in export/import activities. In these instances, the domestic facility must obtain the information necessary to complete the Form 741. NOTE: Submittal for foreign facility does not indicate a responsibility for the other facility or their shipment/receipt of materials.

The prescribed computer-readable format replaces the submittal of DOE/NRC Form 741 to NMMSS in paper form which had been previously required. However, paper hard copies of the form may be provided to all interested parties, such as shippers or receivers to facilitate shipper - receiver difference evaluations.

1. Automated Methods for Submitting Data to the NMMSS

a. Establishing an Electronic Connection with the NMMSS

A licensee may submit the DOE/NRC Form 741 electronically by using a modem and a telephonic transfer. In order to establish an electronic connection with the NMMSS, licensees must contact the NMMSS security officer to request establishment of a connection with the direct link. If the facility is a valid facility for the type of link requested (classified or unclassified), the security officer will provide the requester with the appropriate forms to complete.

Upon receipt of the completed forms, the security officer creates a user ID and password and establishes an account for the facility. The user ID and password are then forwarded to the user facility along with a password acknowledgment form. The licensee signs the acknowledgment form and returns it to the security officer who, upon receipt, activates the user ID and password.

b. Handling techniques, format requirements and data submittals

DOE/NRC Form 741 shall be submitted in computer-readable format. NMMSS Report D-24 provides instructions on handling techniques, format requirements, and data submittals using diskettes.

c. Safeguards Management Software (SAMS)

The SAMS is a miniature version of the Nuclear Materials Management and Safeguards System (NMMSS). This software allows one to perform edit checks, generate various reports, import and export transactions, material balance and inventory data. The SAMS program with the appropriate formats and user prompts may be obtained from the NMMSS operator.

d. New / Modified Methods of Transferring Electronic Data

New or modified methods of transferring electronic DOE/NRC Form 741 data to NMMSS may be authorized by the NRC. Confirmation of additional methods for the transfer of this data may be obtained by contacting the NMMSS operator.

2. Documentation and Distribution

The completed NRC/DOE Form 741, in computer readable format, should be submitted to the NMMSS operator. Confirm the address and mechanism of providing data to NMMSS by calling the NMMSS operator at 770-662-8110 prior to submitting data. Note that specific submission instructions depend upon whether the Form 741 is classified or unclassified information. Additional distribution information is contained in Section II.B, IV.B and V.D.

a. Classified Reports*

Any DOE/NRC Form 741 which is classified must be documented and handled in accordance with all pertinent security requirements. Each person who is to receive a copy of the report must be verified as a qualified recipient prior to distribution.

b. Unclassified Reports*

Any DOE/NRC Form 741 which is unclassified must be documented in accordance with all pertinent security requirements.

* Please confirm the address prior to sending documents to NMMSS or other recipients.

II. GENERAL PROCEDURES

A. Instructions for Completing each Block on DOE/NRC Form 741

If the DOE/NRC Form 741 is reporting an onsite gain or loss, review the instructions for Block 7, Action Code, and the special instructions for "M" action code in Section IV of this NUREG before completing the form.

The numbered instructions which follow correspond to the numbered blocks on the DOE/NRC Form 741 to be completed. The numbers in parentheses within the various blocks of the DOE/NRC Form 741 should be disregarded as they are used for data processing purposes. Each shipper of reportable quantities of special nuclear material (SNM) or source material shall dispatch a DOE/NRC Form 741 to the NMMSS operator and a copy to the receiver's business address on the same day the material is shipped or, in any case, no later than the close of business the next working day. In the case of spent fuel shipments, and in accordance with 10 CFR 73.37, the date of shipment is "Safeguards Information" until ten (10) days after the shipment or the last shipment in a series of shipments is received. Therefore, the DOE/NRC Form 741 should be stamped "Safeguards Information" and handled according to 10 CFR 73.21.

Burials are reported when shipped. A DOE/NRC Form 741 shall be prepared and transmitted to NMMSS by the burial site operator to document receipt and disposal.

WHEN REPORTING SHIPPER'S DATA

The DOE/NRC Form 741 should be completed in accordance with the following instructions:

1. SHIPPER'S RIS[2] - Enter the Shipper's RIS.

2. RECEIVER'S RIS - Enter the Receiver's RIS.

3. TRANSACTION NUMBER - Enter a consecutive number for the same shipper-receiver combination in the "Transaction No." block. Numbers in the series should be consecutive; i.e., no skipped numbers.

4. CORRECTION NUMBER - This block is used to identify a transaction which is an adjustment to a previously issued DOE/NRC Form 741. Leave blank on the original submission of a DOE/NRC Form 741. Use number 1-9, consecutively, for adjustments. For corrections requiring only

[2] RIS's are documented in NMMSS Reports D-2, D-3 and D-15.

changes to NMMSS (and not to the other party) this correction digit should be alphabetic (e.g., A, B, etc.). See Section V.

5. PROCESSING CODE - Enter processing code A, C, D or Z.

A - Initial entry of data

C - Replacement of data. An entire data set may be replaced at any time prior to the close of the processing period in which the initial entry was made with the concurrence of the other party to the transaction.

D - Deletion of data. Data may be deleted at any time prior to the close of the processing period in which the initial entry was made with the concurrence of the other party to the transaction.

Z - Receiver's acceptance of shippers adjustment. This can only be used with action code "D". Receives reporting per 10 CFR Part 75 may not use the "Z" code.

6. RESERVED - Leave blank

7. ACTION CODE - This block is used to identify the type of transaction event being reported on the DOE/NRC Form 741. Enter one of the following:

"SHIPPER" block

A-shipper is reporting its statement describing a transaction that has taken place between the stated parties.

C-shipper is adjusting the initial DOE/NRC Form 741 of the shipment or a previous adjustment to the same initial report, or acknowledging an adjustment originated by the receiver, or accepting and agreeing with the receiver's adjustment to the DOE/NRC Form 741. See Section V.

M -reporting a one-party transaction or an adjustment to a one-party transaction, i.e., an onsite gain or loss of material due to burn-up, production, measured discards, etc., such as the inventory changes shown on material balance reports. (DOE/NRC Form 742). See Section IV.

"RECEIVER" block

B -receiver is reporting that a shipment has been received and that the weights reported by the shipper on the DOE/NRC Form 741 were accepted without further measurement by the receiver.

E -receiver is reporting that a shipment was received and that independent measurements were made and that the values resulting from the independent measurements are being reported.

D -receiver is adjusting the initial DOE/NRC Form 741 of the receipt of the shipment or a previous adjustment to the same initial report, or acknowledging an adjustment originated by the shipper, or accepting and agreeing with the shipper's adjustment to the DOE/NRC Form 741. See Section V.

M -reporting a one-party transaction or an adjustment to a one- party transaction, i.e., an onsite gain or loss of material due to burn-up, production, measured discards etc., such as the inventory changes shown on material balance reports (DOE/NRC Form 742). See Section IV.

N -receiver is reporting physical receipt of a shipment but will be delaying the quantity determinations for the shipment of material for more than 10 days but less than 30 days (at which time a DOE/NRC Form 741 with a "B" or "E" action code is prepared to report the receiver's quantity decision).

U - receiver is reporting physical receipt of a shipment of scrap or irradiated material but will be delaying the quantity determinations for the shipment of material for more than 30 days but less than 60 days (at which time a DOE/NRC Form 741 with a "B" or "E" action code is prepared to report the receiver's quantity decision).

8. DATA CODE - Leave blank

9. NAME AND ADDRESS OF SHIPPER - Optional entry - applicable only to paper copy

   A. Enter shipper's organization name and address.

   B. Enter shipper's license number.

   C. Enter an Attention Line, if necessary.

D. Enter shipper's telephone number.

10. NAME AND ADDRESS OF RECEIVER - Optional entry - applicable only to paper copy

A. Enter receiver's name and address.

B. Enter receiver's license number, if applicable.

C. Enter an Attention Line, if necessary.

D. Enter receiver's telephone number.

11. NUMBER OF DATA LINES -

After completion of Block 24, "Shipper's Data," or Block 25 "Receivers Data" enter the total number of detail line entries you are reporting in this block.

12. NATURE OF TRANSACTION -

DOE-Owned Material - Complete this block for DOE-owned special nuclear material or source material under DOE contracts or lease or loan agreements, material sold for or to DOE, or material donations to or from DOE.

Privately Owned Material - Optional entry - applicable only to paper copy. This block may be used to reflect a non-DOE transaction involving privately owned material. To do so, it is imperative that Blocks 12, 24.I, and 25.I be in agreement.

See Appendix II for a list of composition and nature of transaction codes.

13. SHIPPED FOR ACCOUNT OF -

DOE-Owned Material - Complete this block if the special nuclear material or source material is DOE-owned. Enter the RIS (Block 13B), and name and address of the person having lease or financial responsibility for the material. If the name and address are the same as Block 9, state "same."

Privately Owned Material - Optional entry - applicable only to paper copy. This block may be used to reflect a non-DOE transaction involving privately owned material. Enter the appropriate RIS in Block 13B.

14. SHIPPED TO ACCOUNT OF -

DOE-Owned Material - Complete this block if the material being transferred is DOE owned. Enter the RIS (Block 14b), name and address of the person assuming lease or financial responsibility for the material. If the name and address are the same as Block 10, state" same."

Privately Owned Material - Optional entry - applicable only to paper copy. This block may be used to reflect a non-DOE transaction involving privately owned material. Enter the appropriate RIS in Block 14B.

15. TRANSFER AUTHORITY -

DOE-Owned Material - If the material is DOE-owned, enter such transfer authority as may be appropriate, e.g., DOE Contract Number, Lease Agreement Number, Nuclear Material (NM) order number, or purchase order number. If the transfer is being made as a result of the NM Draft (Form DOE-437), enter the draft number.

Privately Owned Material - Optional, not to exceed 17 characters in length.

16. EXPORT OR IMPORT TRANSFERS -

A. For all export or import transfers, enter the NRC export or import license number, respectively, under which special nuclear material or source material is being transferred. Where transfers are authorized by a general license, enter "Gen-Lic." There may also be cases where the transfer is exempt from licensing. If so, enter "Lic-Exempt." If several batches authorized by separate licenses are combined into one shipment, a separate DOE/NRC Form 741 must be filed for each license involved.

B. For all export or import transfers, enter the U.S. Port of Exit/Entry code designating where the shipment exited or entered the United States. Appendix I to these instructions contains a listing of all United States Customs Ports and their assigned four digit codes.

17. MATERIAL TYPE AND DESCRIPTION -

Facilities reporting material transfers involving facilities in the United Kingdom must indicate in this block whether the shipment is "reportable" or "non-reportable" to the IAEA. This is accomplished by entering "R" for reportable or "N" for non-reportable.

18. TRANSPORTATION PROFILE - Leave blank

19. PACKAGE IDENTIFICATION - Leave blank

20. ACTION DATE - *

A. Entry required by shipper. Enter the date the nuclear material is shipped.

B. Entry required by shipper. If the document is an acknowledgment or a correction to a previously issued transaction report, enter the date the correction is recorded or the acknowledgment is made, as appropriate.

C. Entry required by receiver. Enter the date the nuclear material is received.

D. Entry required by receiver. Enter the date nuclear material is measured by receiver. Required only if receiver's action code is "E."

E. Entry required by receiver. If the document is an acknowledgment or a correction to a previously issued transaction report, enter the date the correction is recorded or the acknowledgment made, as appropriate.

* In the case of imports or exports, licensees must complete a separate DOE/NRC Form 741 to document the foreign party action, including action dates in Blocks 20A and 20C as applicable.

21. A. MISCELLANEOUS - Optional entry - applicable only to paper copy

This block provides space, if needed, for further clarification of other entries on the form, and for shipper-to-receiver communications.

B. DOE/NRC FORM 740M ATTACHED - SHIPPER

Check the appropriate box to indicate whether or not a concise note is attached. (If you check "yes," see Section VI for instructions for preparing DOE/NRC Form 740M.) If reporting a domestic transfer pursuant to 10 CFR 75, a Concise Note may be necessary. If reporting an export pursuant to 10 CFR 40, 70, 74, 75, or 76, a Concise Note may be required as specified in Section VI.

C. DOE/NRC FORM 740M ATTACHED - RECEIVER

Check the appropriate box to indicate whether or not a concise note is attached. (If you check "yes," see Section VI for instructions for preparing DOE/NRC Form 740M.) If reporting a domestic transfer pursuant to 10 CFR 75, a Concise Note may be necessary. In the case of an import, a concise note may be necessary. (See Section VI to determine if required and for instruction for preparing DOE/NRC Form 740M.)

22. TOTAL GROSS WEIGHT -

Enter the total gross weight of the shipment rounded to nearest pound. An approximate or estimated gross weight rounded to the nearest pound figure is acceptable. Make no entry for "M" action code transactions, receipts, and correction documents.

23. TOTAL VOLUME (Waste Transfers Only) -

For transfers of nuclear material to or from nuclear waste sites (i.e., if the shipper or receiver RIS begins with the letter "V"), enter the volume of the material to be buried, stated in cubic feet rounded to the nearest cubic foot. This does not apply to transfers to nuclear laundry services.

24. SHIPPER'S DATA -

Shipper's data are to be entered in Block 24. Receiver's data are entered in block 25. Receivers should review the instructions for block 25 before completing the form.

Shipper and receiver measurement data are entered on DOE/ NRC Form 741 for each "batch" of material. For licensees reporting pursuant to 10 CFR 75 requirements or if the transfer is an import or an export, "batch" is defined as a portion of nuclear material handled as a unit for accounting purposes at a key measurement point and for which the composition and quantity are defined by a single set of specifications or measurements. The batch may be in bulk form or contained in a number of separate items. If the shipment is an export or is being reported pursuant to 10 CFR 75, fuel assemblies or loose rods or fuel pins must be listed separately with the identifying label serving as a unique batch name. Fuel assemblies can be reported as "average" enrichment as long as the appropriate accounts (MT 10, 20, 81, etc.) are properly adjusted. Material being transferred with all the below data elements identical may be listed on one line of DOE/ NRC Form 741 (except as noted below). Material differing in regard to any of these data elements must be listed on separate lines:

Country Control Number.
DOE Project Number and Identification (if applicable).
Material Type.
Composition.
Ownership.
Weight % Isotope (if applicable).

However, two or more lines may be necessary to describe a single batch (e.g., spent fuel assemblies, mixed oxide fuel). If a batch consists of several types of nuclear material, several consecutive lines will be used to describe the batch. The same name is repeated on all lines to describe all the conditions in a single batch. The "Number of Items," block 24.D, is also repeated on all lines for the same batch name.

Although this is the formal definition of a "Batch" under 10 CFR 75, the above general rules for grouping or batching material for reporting purposes are also applicable to licensees reporting imports or exports pursuant to 10 CFR 74 or 40. For other transactions reported pursuant to 10 CFR 40 or 74 batch name entry and uniqueness are optional.

24A. Line Number - In providing detailed measurement data, enter a line number beginning with 01 (to 99) for the first line of detailed shipper's data, and increase the line number by one for each additional line of detailed shipper's data entered on the form. When two or more lines of measurement data refer to a single batch, repeat the unique batch name for each line of the batch data. For example:

(1) different material types of multi-enrichment fuel rods entered on separate lines, but with the same batch name; and

(2) when UF_6 product material and UF_6 heel material in a cylinder are reported on separate lines, the two lines must have the same batch name.

Refer to the instructions in Section IV for action code M.

24B. Type of Inventory Change - All changes to inventory that meet the reporting criteria must be reported on DOE/NRC Form 741. There are twenty-nine (29) inventory change type (ICT) codes. They can be categorized into several groups. A large group of these will require no entry in this block by the licensee since the information required to determine the ICT is reported elsewhere on the form. There is a group of seldom used codes that may occur in facilities covered by the note provided below in Paragraph 24G, such as de-exemption use, de-exemption quantity and exemption use, exemption quantity, and

termination nonnuclear use, which will be addressed as they occur through direct contact between the licensee and the NRC. There is a third group for which entry in this block is mandatory.

Appendix IV defines and categorizes each ICT code.

When the ICT code for either a normal operational loss, measured discard, or accidental loss (LD, TW, LA) is used, additional information is required. There are four dispositions of measured discards for which data is to be reported:

(1) when material is discarded into the atmosphere (A);
(2) when material is discarded through ground effluents (G);
(3) when material is discarded into a pond or lagoon (L); and
(4) when material is transferred to a holding area (H) at the facility pending possible shipment offsite for disposal.

When any of the above occurs, a DOE/NRC Form 741 should be prepared. The shipper will enter his own RIS in the "Shipper's RIS" block (block 1), and the same RIS in the "Receiver's RIS" block (block 2), but append the receiver's RIS with an "A," "G," "L," or "H," as appropriate. For example, if a facility with RIS "XYZ" discards material to a lagoon, the transaction on the DOE/NRC Form 741 would be from XYZ to XYZL.

24C. Identification (Batch Name) - A name or number, or a combination of both, that is common to the reporting facility and identifies the batch of material involved in the shipment. If the licensee is reporting pursuant to 10 CFR 75, or if the transfer is an import or export, this item must be completed as follows: the shipper or receiver makes an entry which identifies a unique portion of nuclear material handled as a unit for accounting purposes. Batch name is limited to 16 characters with the right hand eight characters unique[3] to the reporting facility. For fuel assemblies pins and rods, batch name should be the identification number of the fuel assembly pin or rod.

In the case of an import, the receiver must use the same batch name as the shipper provided the shipper's batch name conforms to the above specifications. If it does not, see the Concise Note instructions (Section VI).

[3] The batch name must be unique to the reporting facility for the duration of the material balance period in which reported.

24D. Number of Items - Enter the number of similar items of which the line entry consists; i.e., cylinders, packs, drums, bird cages, bottles, tank vessels, etc. When reporting fuel pins, rods, or plates, report the number of separate fuel pins, rods, or plates involved. When reporting fuel assemblies, report the number of complete assemblies represented on the line entry. In the case of transfer of bulk material, enter a 1. Leave blank if an "M" transaction is occurring.

24E. Project Number - Enter the DOE Project Number(s) for which DOE-owned material is to be used; otherwise, leave blank.

24F. Material Type - Enter the appropriate special nuclear material or source material type code from the list below.

U.S. Code (Domestic Transfers)	IAEA Code (Imports/Exports)	DESCRIPTION
10	D	Depleted Uranium
20	EG	Enriched Uranium
50	P	Plutonium
70	EK	U^{233}
81	N	Normal uranium
83[4]	Pu	Pu^{238}
88	T	Thorium
89	to be obtained from IAEA	Uranium in cascade

24G. Composition/Facility Code - Enter the appropriate code describing the physical (unencapsulated, encapsulated) and chemical form of the material. See Appendix II, Composition Code.

If your installation has been notified by letter from the NRC, as provided in 10 CFR 75.11, that it has been identified under the U.S./IAEA Safeguards Agreement, enter the appropriate code from the list developed during the formulation and negotiation of your facility attachment or transitional facility attachment (after such document has been provided to you under

[4] Use this code only if PU 238 is greater than 10% of the total Pu by weight; otherwise use Code 50.

10 CFR 75.8). In accordance with 10 CFR 75.11, any change in facility operations or processes that would result in any changes to, additions in, or deletions from the list should be communicated to the NRC in writing, to the extent provided in your license conditions, at least 70 days in advance of the changes so that new composition codes can be assigned.

24H. Production Code - Make no entry.

24I. Owner Code - This code describes the ownership of the material at the time it was in the shipper's possession. Enter the appropriate code from the list below.

A	DOE loan material-Lease Agreement (waiver of use charge)
B	DOE Lease material-Lease Agreement (Non-waiver of use charge)
G	DOE-owned material
H	Owned by other U.S. Government Agencies
J	Privately owned (domestic)
R	Privately owned (foreign)
S	DOE-owned-Lease or loan agreement (foreign)
U	USEC-owned

24J. Country Control Number - This block is used to reflect a "Country Control Number" (CCN), a code assigned to material upon its import into the U.S., material transferred within the U.S., and material exported from the U.S.

Each CCN is structured to be an eight (8) character code consisting of four, distinct, two-character codes. The first two characters indicate the country of origin of the source material and are required for all transactions. The remaining characters (three through eight) are to be completed, if applicable or filled out with the number "0". The second set of two characters indicates the country providing the isotopic separation services; the third set of two characters indicates the country in which reactor products (Pu or U^{233}) are produced; and the last two characters identify any other country(ies) or international organization(s) attaching conditions to the material in addition to any condition(s) that may be attached by a country identified in set one, two, or three, above. This unique code established for each combination of country(ies) or

organization(s) attaching conditions, and represented by these last two characters (characters 7 and 8), is maintained in the system as part of the CCN reference file.

"Conditions" attached by the entities indicated by characters 7 and 8 are defined as any applicable supplier requirements that material be used only for peaceful purposes; that material be subject to IAEA safeguards; that the country(ies) concerned be informed of material location; or that material not be re-transferred to another country, enriched or reprocessed, without the prior consent of the country(ies) concerned. The safeguards conditions attached depend on the terms of agreements for cooperation for supply of material. At the time a U.S. facility applies for a license to import material from a foreign country, the safeguards conditions attached to the material must be known. A unique two-character alphanumeric code will be assigned to each condition or set of conditions attached by any country(ies) or international organization(s) as the safeguards conditions are defined or identified. Characters 7 and 8 may also be used to identify Former Soviet Union or U.S. weapons nuclear material or material for re-enrichment.

For further information needed for the completion of this block, refer to the supplemental CCN instructions that appear in Appendix III of this NUREG.

24K. Key Measurement Point (KMP) - (The next two items (K and L) apply only to licensees reporting pursuant to the requirements of 10 CFR Part 75.) This block is for the reporting of a location where nuclear material appears in such a form that it may be measured to determine material flow or inventory. Codes for KMP's will be identified in the facility attachments or transitional facility attachments developed for those facilities described in the Note in 24.G. All others leave blank.

24L. Measurement Identification (see 24K above) - This block also applies only to those facilities covered in the Note in 24G above.
All others leave blank. This code indicates where and when the material was measured. It consists of three (3) parts.

(1) Basis -Enter the pertinent one-character code from the following:

N -if the batch data are based on measurements made in an IAEA MBA other than the reporting MBA.

L -if the batch data are based on measurements made in another IAEA MBA and have been previously reported by the reporting MBA in a

DOE/NRC Form 741-Nuclear Materials Transaction Report or a DOE/NRC Form 742C-Physical Inventory Listing.

M -if the batch data are based on measurements made in the reporting IAEA MBA and the data were not previously reported.

T -if the batch data are based on measurements in the Reporting IAEA MBA and have been previously reported for that MBA on a DOE/NRC Form 741 or a DOE/NRC Form 742C.

(2) Other Measurement KMP (OMP) - For batch data designated code "M" under Measurement Basis, enter the code of the KMP where measurements were made if it is different from the KMP indicated in 24K above. If the same, leave blank.

(3) Measurement Method - If there are two or more measurement methods employed at the same KMP which have a different measurement uncertainty, enter the code for the measurement method used, as identified in your Facility Attachment.

24M. Gross Weight - Optional for paper reports only, see note.

Enter the gross weight in pounds, i.e., weight of material shipped plus tare weight (packaging and shipping container), of the line entry. For adjustments to previously completed DOE/NRC Form 741 documents, this field may be used to enter the back reference.

Back reference: Change DOE/NRC Form 741/741A: Block 24.M or 25.M

NOTE: Since the use of Block 24M and/or 25M for insertion of the gross weight is optional, this block should be used to indicate in the form of a back reference notation that a change has been made to some of the information contained in previous reports.

Where it is necessary to use gross and net weights that are different from the prescribed reporting unit, the specific weight unit used must be entered on the report

1. Back Reference Change

(a) Required for all licensees for:

1. Action codes C and D

2. Action code M when reporting adjustments.

(b) Both the back reference change digit and back reference line number must be reported.

(c) The back reference change digit represents the change digit of the document being corrected for a nullifying entry and the change digit of the document now being completed for a correcting entry. For example, if the DOE/NRC Form 741 or 741A document being corrected is the original, or if the line being entered represents an addition only, enter "0" (zero).

(d) The back reference line number represents the line number of the line being corrected for a nullifying entry and the line number of the corresponding nullifying line for a correcting entry. If the line being entered represents an addition only or represents a net change, enter "00" (zeros).

24N. Net Weight - Optional entry - applicable only to paper copy. Enter weight of material shipped excluding tare weight, in grams for SNM and kilograms for source material.

24O. Element Weight - Enter the weight of the contained special nuclear material or source material rounded to the quantities reported below. The decision to report should be based on the total material shipped or received prior to rounding.

Material	Reporting Units
Plutonium or uranium enriched in U^{235} or U^{233}	nearest whole gram
PU^{238}	nearest 1/10 gram
Source Material	nearest kilogram

If the quantity to be entered is equal to or greater than 0.5 of the reporting unit, the quantity will be reported to the next highest whole reporting unit. If the quantity to be entered is less than 0.5 of the reporting unit, the quantity will be rounded down to the next lowest reporting unit.

24P. Element Limit of Error - Limits of error are only required to be reported by licensees authorized to possess at any time and location special nuclear material in a quantity exceeding one effective kilogram and to use special

nuclear material for activities other than those involved in the operation of a nuclear reactor licensed pursuant to 10 CFR 50; those involved in a waste disposal operation; or as sealed sources (10 CFR 70.58(e)).

Complete when the total shipment contains more than 50 grams of U^{235}, U^{233} or plutonium, or any combination of these. Enter the Limit of Error for each element entry using the same weight units as in block 24O, except where the line entry represents a sealed plutonium-beryllium source (composition code 481); samples which have been determined by other means to contain less than 10 grams U^{235}, U^{233}, or plutonium each (composition code 771); and reactor-irradiated fuels (composition code 375) involved in research, development, and evaluation programs in facilities other than irradiated-fuel reprocessing plants.

Limits of error are to be at the 95% confidence level, propagated by the uncertainties of the weight measurement, the chemical analysis, and the sampling method. Limits of error do not apply for source material. Licensees making onsite transfers between two different RIS's or the same RIS are exempt from supplying limits of error data for the transfers. (Transfers between a license exempt operation and a licensed operation at the same location are not considered onsite transfers, and limits of error are required.)

24Q. Weight % Isotope - Enter the weight percent of the isotope U^{235} if uranium enriched or depleted in U^{235}. If plutonium, enter the weight percent of the isotope Pu^{240}. If Pu^{238}, enter the weight percent of the isotope Pu^{238}. Report weight percent to at least two but not more than four decimal places, depending upon the accuracy yielded by the measurement method employed. Example of weight percent isotope to four decimal places: XX.XXXX%. For U^{233}, enter the parts per million of U^{232}. This does not apply for normal uranium and thorium. Use separate lines to report material of different enrichments. The Pu and U^{235} content of irradiated fuel may be determined and reported upon discharge of the spent fuel from the reactor core. Reactor operators may report non-fissile isotope, instead of Pu^{240} in this field for spent fuel, if the computer codes the operator uses has this limitation.

24R. Isotope Weight - Enter the isotope weight. If enriched uranium or U^{233}, enter weight to the nearest gram of U^{235} or U^{233} as appropriate. If plutonium, enter the sum of Pu^{239} and Pu^{241} to the nearest gram. If Pu^{238}, enter the weight of the isotope Pu^{238} to the nearest 1/10 of a gram. For depleted uranium, enter the isotope weight to the nearest kilogram. Make no entry for other source material.

If the quantity to be entered is equal to or greater than 0.5 of the reporting unit, the quantity will be reported to the next highest whole reporting unit. If the quantity to be entered is less than 0.5 of the reporting unit, the quantity will be rounded down to the next lowest reporting unit.

24S. Isotope Limit of Error - Limits of error are only required to be reported by licensees authorized to possess at any one time and location special nuclear material in a quantity exceeding one effective kilogram and to use such special nuclear material for activities other than those involved in the operation of a nuclear reactor licensed pursuant to 10 CFR 50, those involved in a waste disposal operation, or as sealed sources (10 CFR 70.58(e)).

Complete when the total shipment contains more than 50 grams of U^{235}, or plutonium, or any combination of these. Enter the limit of error for each isotope entry using the same weight units as in Block 24.R, except where the line entry represents a sealed plutonium-beryllium source (composition code 481); samples which have been determined by other means to contain less than 10 grams U^{235}, U^{233}, or plutonium each (composition code 771); and reactor-irradiated fuels involved in research, development, and evaluation programs in facilities other than irradiated-fuel reprocessing plants.

Limits of error are to be at the 95% confidence level, propagated by the uncertainties of the weight measurement, the chemical analysis, the isotopic analysis and the sampling method.

Limits of error do not apply to source material.

24T. Signature of Authorized Official and Date Signed - The report, if submitted as hardcopy, is to be signed and dated by an authorized representative of the licensee. Otherwise, enter the date submitted. Each licensee must establish internal procedures that will ensure that the information provided in the report is accurate and that the report has been prepared and issued only by the authorized licensee personnel.

Proprietary information must be included when necessary to provide an adequate response. An application to withhold such information from public disclosure may be made, and would be disposed of, in accordance with the provisions of 10 CFR 2.790. If any of this information is of particular sensitivity, a request may be made that such information not be physically transmitted to the IAEA; such a request must refer to, and must conform with 10 CFR 75.12.

25. RECEIVER'S DATA -

Each receiver of reportable quantities of special nuclear material or source material must acknowledge receipt of shipments in accordance with the following instructions:

A. If the receiver plans to accept the shipper's measurement data without making independent measurements - ("B" Action Code)

The receiver shall, within ten (10) days of receipt of the material, submit a DOE/NRC Form 741. Following are two mechanisms to perform this action::

(1) complete Blocks 1 through 23 and put a zero (0) in Block 11 or,

(2) complete Blocks 1 through 23, enter shippers values in Block 24 and repeat shippers values in Block 25.

Dispatch the form in accordance with Distribution of Copies by Receiver. Facilities reporting pursuant to 10 CFR 75 must follow option two (2), above.

B. If the Receiver Makes Independent Measurements - ("E" Action Code)

The receiver shall, within 10 days of receipt of the material:

(1) complete Blocks 5 & 7 (Receiver), 20.C, 20.D, and 25.A through T of the DOE/NRC Form 741; showing the quantities of material as measured; and

(2) dispatch the form in accordance with Distribution of Copies by Receiver.

C. If the receiver intends to make independent measurements within thirty (30) days - ("N" action code)

The receiver shall, within ten (10) days of receipt of the material:

(1) complete Blocks 5 & 7 (Receiver), 20.C, and 25.T of the DOE/NRC Form 741;

(2) dispatch the form in accordance with Distribution of Copies by Receiver; and

(3) after independent measurements are made, use the instructions for reporting a "B" or "E" action code. If delayed measurements are to be made, they must be completed and reported on a copy of the initial DOE/NRC Form 741 within thirty (30) days after the receipt of each shipment except in the case of receipts of scrap and irradiated material.

D. If the receiver intends to make independent measurements for scrap and irradiated material beyond thirty (30) days but less than 60 days - ("U" action code).

The receiver shall, within ten (10) days of receipt of the material:

(1) complete Blocks 5 & 7 (Receiver), 20.C and 25.T of the DOE/NRC Form 741;

(2) dispatch the form in accordance with Distribution of Copies by Receiver; and

(3) after independent measurements are made, use the instructions for reporting a "B" or "E" action code. If delayed measurements are to be made, they must be completed and reported on a copy of the initial DOE/NRC Form 741 within sixty (60) days after the receipt of each shipment except in the case of receipts of scrap and irradiated material

In the case of a scrap processor receiving several shipments of scrap which are accumulated and processed together, the recovered quantity of material must be prorated to the specific transmittal documents and line entries to maintain the one-to-one correspondence between shipper and receiver data.

WHEN REPORTING RECEIVER'S DATA

25-A. LINE NUMBER - Enter a line number, beginning with 01 (up to 99) for the first line of detailed receiver's data, and increase the line number by one for each additional line of detailed receiver's data entered.
Refer to instructions in Section IV for action code M.

Receiver measurement data must be entered on a one-to-one correspondence with the shipper data. For example, if the shipper lists five line entries (01 through 05) of transfer data, the receiver must report five line entries. Line number 01 of the receiver's data must correspond to line number 01 of the shipper's data, etc.

If both the shipper and receiver are reporting pursuant to 10 CFR 75 or the transfer is an import, the receiver must report the receipt using the same batch name as the shipper.

25-B. TYPE OF INVENTORY CHANGE - See item 24.B.

25-C. IDENTIFICATION (Batch Name) - See Item 24.C.

25-D. NUMBER OF ITEMS - See Item 24.D.

25-E. PROJECT NUMBER - See Item 24.E.

25-F. MATERIAL TYPE - See Item 24.F.

25-G. COMPOSITION/FACILITY CODE - See Item 24.G.

25-H. PRODUCTION CODE - Not applicable.

25-I. OWNER CODE - This code describes the material ownership at the time it comes into the receiver's possession. See 24.I.

25-J. COUNTRY CONTROL NUMBER - See instructions for Item 24.J and Appendix III.

25-K. KEY MEASUREMENT POINT - See Item 24.K.

25-L. MEASUREMENT IDENTIFICATION - See Item 24.L.

25-M. GROSS WEIGHT - See Item 24.M.

25-N. NET WEIGHT - See Item 24.N.

25-O. ELEMENT WEIGHT - See Item 24.O.

25-P. ELEMENT LIMIT OF ERROR - See Item 24.P.

25-Q. WEIGHT % ISOTOPE - See Item 24.Q.

25-R. ISOTOPE WEIGHT - See Item 24.R.

25-S. ISOTOPE LIMIT OF ERROR - See Item 24.S.

25-T. SIGNATURE OF AUTHORIZED OFFICIAL AND DATE SIGNED - See Item 24.T.

B. Preparation of DOE/NRC Form 741 in Computer-readable Format.

NMMSS Report D-24 provides additional instructions for preparing DOE/NRC Form 741 in computer-readable format as required for submittals.

C. Distribution of DOE/NRC Form 741

1. SHIPPER

Each shipper of reportable quantities of special nuclear material (SNM) or source material shall dispatch the DOE/NRC Form 741 data as described below on the same day the material is shipped or, in any case, no later than the close of business the next working day. In the case of spent fuel shipments, and in accordance with 10 CFR 73.37, the date of shipment is "Safeguards Information" until ten (10) days after the shipment or the last shipment in a series of shipments is received. Therefore, the DOE/NRC Form 741 should be marked "Safeguards Information" and handled according to 10 CFR 73.21.

Burials are reported when shipped. A DOE/NRC Form 741 shall be prepared and transmitted to NMMSS by the burial site operator to document receipt and disposal.

Distribute the completed DOE/NRC Form 741 as follows:

a. Send one (1) copy, in a mutually agreeable format to the receiver.

b. Submit one (1) copy in computer-readable format to NMMSS. (See section I.C.2 for documentation and distribution of classified and unclassified reports.)

c. Retain one (1) copy for your file.

2. RECEIVER

Distribute the completed DOE/NRC Form 741 as follows:

a. Submit one (1) copy in computer-readable format to NMMSS. (See section I.C.2 for documentation and distribution of classified and unclassified reports.)

b. Return one (1) copy, in a mutually agreeable format, to shipper.

c. Retain one (1) copy for your file.

III. PROCEDURE FOR CONTINUATION PAGE

If more lines of data are to be reported than can be accommodated on one page, use Nuclear Material Transaction Report, DOE/NRC Form 741A (continuation page) and follow the basic instructions for shipper, receiver, or onsite activity as appropriate.

PAGE NUMBER - Enter the page number of the continuation page.

TRANSFER SERIES - Enter the same transfer series data entered on the first page in Blocks 1 through 4.

IV. PROCEDURE FOR ONSITE GAINS AND LOSSES ("M" ACTION CODE).

A. Instructions for completing each block on DOE/NRC Form 741

When action code "M" is used, the DOE/NRC Form 741 should be completed in accordance with the following instructions.

1. SHIPPER'S RIS - Enter your RIS.

2. RECEIVER'S RIS - Same as Block one.

3. TRANSACTION NUMBER - See II.3 or contact NMMSS operator for other options.

4. CORRECTION NUMBER - See II.4 and Section V

5. PROCESSING CODE - See II.5

6. RESERVED - Leave blank.

7. ACTION CODE - Enter "M" in either the shipper, receiver, or both

8. DATA CODE - Leave blank.

9. NAME AND ADDRESS OF SHIPPER - See II.9

10. NAME AND ADDRESS OF RECEIVER - Enter "SAME"

11. NUMBER OF DATA LINES - Enter the total number of detail line entries on the form

12. NATURE OF TRANSACTION - Leave blank

13. SHIPPED FOR ACCOUNT OF -
    - DOE-Owned Material - See II.13
    - Privately Owned Material - Leave blank

14. SHIPPED TO ACCOUNT OF -
    - DOE-Owned Material - See II.14
    - Privately Owned Material - Leave blank

15. TRANSFER AUTHORITY -
    - DOE-Owned Material - See II.15
    - Privately Owned Material - Leave blank

16. EXPORT OR IMPORT TRANSFERS - Leave blank

17. MATERIAL TYPE AND DESCRIPTION - See II.17

18. TRANSPORTATION PROFILE - Leave blank

19. PACKAGE IDENTIFICATION - Leave blank

20. ACTION DATE - Enter the date of the activity in at least one of blocks A. through E. If more than one block is completed, all dates must be the same.

21. MISCELLANEOUS - See II.21

22. TOTAL GROSS WEIGHT - Leave blank

23. TOTAL VOLUME - Leave blank

24. SHIPPER'S DATA -

A. Line Number - Both shipper (block 24) and receiver (block 25) data may be used. If both blocks are used, number consecutively for the entire report. See II.24.A

B. Type of Inventory Change - Entry required, see II.24.B

C. Identification (Batch Name) - Entry required if under 10 CFR Part 75, otherwise optional. See II.24.C

D. Number of Items - Leave blank

E. Project Number - See II.24.E

F. Material Type - See II.24.F

G. Composition/Facility Code - Leave blank for inventory change type code MF and EQ. See II.24.G

H. Production Code - Leave blank.

I. Owner Code - See II.24.I

J. Country Control Number - See II.24.J

K. Key Measurement Point - See II.24.K

L. Measurement Identification - See II.24.L

M. Gross Weight - Entry required only for corrections, see Section V.

N. Net Weight - Leave blank

O. Element Weight - See II.24.O

P. Element Limit of Error - Leave blank

Q. Weight % Isotope - Leave blank for inventory change type code MF & EQ unless the material is enriched uranium. For inventory change type codes LN and TN, report the same weight % isotope as done for the beginning of the inventory period. See II.24.Q

R. Isotope Weight - See II.24.R

S. Isotope Limit of Error - Leave blank

T. Signature of Authorized Official and Date Signed. -See II.A.24.T

25. Receiver's Data - See block 24-A above.

B. Preparation of DOE/NRC Form 741 in Computer-readable Format.

NMMSS Report D-24 provides additional instructions for preparing DOE/NRC Form 741 in computer-readable format as required for submittals.

C. Distribution of DOE/NRC Form 741

Distribute the completed DOE/NRC Form 741 as follows:

1. Submit one (1) copy in computer-readable format to NMMSS. (See section I.C.2 for documentation and distribution of classified and unclassified reports.)
2. Retain one (1) copy for your file.

V. PROCEDURES FOR CORRECTING DOE/NRC FORM 741 - ("C", "D" or "M" action code or "Z" process code)

Adjustments are independent actions which means either the shipper or the receiver may initiate an adjustment to a DOE/NRC Form 741 or 741A reporting the original shipment or receipt of material or to any previous adjustment to the original. Although the other party is obligated to respond to an adjustment, they are not obligated to make the same adjustment to their own records.

A. The originator of the "corrected copy" shall:

1. Complete blocks 1 through 23, as appropriate, using the copy of DOE/NRC Form 741 being corrected as reference.

2. Complete the "did read" line, blocks 24.B through L and N through S or 25.B through L and N through S, as appropriate, by duplicating the line being corrected from DOE/NRC Form 741 being corrected in its entirety and indicating the opposite sign (positive or negative) from the original one used in reporting the Number of Items (block D), Element Weight (block 0), Element Limit of Error (block P), Isotope Weight (block R), and Isotope Limit of Error (block S).

3. Insert in block 24.M or 25.M of the "did read" line, as appropriate, a three digit back reference code. If the line of data has not been previously corrected, a "0" should be used. If previously corrected, the first digit is the Correction Number (block 4) from DOE/NRC Form 741 being corrected. (If the line of data has been previously corrected, the most recent prior correction number should be used.) The next two digits are the Line Number (block 24.A or 25.A) on DOE/NRC Form 741 being corrected.

4. Complete the next line of DOE/NRC Form 741 adjustment with all information as it "should read" for all the blocks in 24 or 25 except block M.

5. Insert in block 24.M or 25.M of the "should read" line, as appropriate, a three digit back reference code that references the corresponding "did read" line. The first digit is the correction number of the document being completed; the next two digits are the line number of the corresponding "did read" line.

Continue this procedure until all lines requiring adjustment have been "backed out" and resupplied with the correct information.

The "did read" and "should read" for each line being adjusted should be paired.

One or more changes can be made to each line with an adjusting entry. Only incorrect lines should be included in a correction report.

If adding a line to the original document, the back reference should be "000" (Block M) and pairing is not required.

If a line previously reported should be split into two or more lines, then one of the "should be" lines should back reference the "did read" line and all others should be considered new additions ("000").

If a line is to be voided, only a "did read" line should be used and pairing is not required.

Examples of an initial report and subsequent correction reports are provided in Appendix V.

6. Back reference: Change DOE/NRC Form 741 or 741A: refer to Section II.24.M of this NUREG.

B. Within ten (10) days the facility receiving the corrected DOE/NRC Form 741 must either:

1. Submit a DOE/NRC Form 741 Acknowledging adjustment. This will close a transaction but will not affect the acknowledging party's values. Or

2. Submit a DOE/NRC Form 741 Accepting adjustment. This will close a transaction and applies the other party's adjustment to the acknowledging party's values.

There is no requirement for both parties to make the same quantity adjustments. However, if both parties do choose to adjust under the same corrected DOE/NRC Form 741, they must both report the same number of entries and the material type must agree line-for-line.

C. Use of the "Z" Process Code

If the receiving party agrees to all changes on the action code "C" document they may utilize process code "Z" and action code "D." Use of this process code requires the licensee to send a DOE/NRC Form 741 to report data contained in blocks 1, 2, 3, 4, 20, the "Z" code in Block 5 and action code "D" in block 7. This code may not be used by a licensee reporting per 10 CFR 75.

D. Distribution of Corrections to DOE/NRC Form 741 or Facsimile:

Originator should:

1. Submit one (1) copy, in a mutually agreeable format, to the other party in the transaction.

2. Submit one (1) copy to NMMSS. (See section I.C.2 for documentation and distribution of classified and unclassified reports.)

3. Retain one (1) copy for your file.

Upon Receipt of a correction: Distribute the completed DOE/NRC Form 741 as follows:

1. Submit one (1) copy to NMMSS. (See section I.C.2 for documentation and distribution of classified and unclassified reports.)

2. Return one (1) to the originator.

3. Retain one (1) copy for your file.

VI. PROCEDURES FOR COMPLETING DOE/NRC FORM 740M-CONCISE NOTE

These instructions apply to

- installations which have been notified by letter from the NRC, as provided in 10 CFR 75.11, that they have been identified under the US/IAEA Safeguards Agreement. Facility Attachments or Transitional Facility Attachments for such installations may specify circumstances under which Concise Notes are required to be submitted to the IAEA as attachments to other reports. These facilities should use the DOE/NRC Form 740M to explain to the foreign State, where on the DOE/NRC Form 741 the IAEA required data items appear, or

- importers who for any reason cannot use the same batch name as the shipper or if the shipper fails to supply a batch name, the importer should supply his own and attach a concise note to that effect. In addition, if the shipper fails to supply his IAEA Facility code or the IAEA material type code, a concise note should be prepared stating that the data was not supplied. The following data is to be provided in the DOE/NRC Form 740M:

  IAEA country code -These codes are listed in NMMSS Report D-15.

  IAEA element (material type) code - appears in Block 24.F on DOE/NRC Form 741.

  IAEA material balance area codes - The Foreign Facility codes are listed in NMMSS Report D-15. The Domestic RIS codes are formed by prefixing the domestic RIS with the letter "U."

  Batch Name - appears in Block 24.C on DOE/NRC Form 741.

  Material Weights (Element and Isotope) - appear in Blocks 24.O and 24.R, respectively, on the DOE/NRC Form 741.

In some cases, it may be desirable to provide additional explanatory information with reports. The DOE/NRC Form 740M is the vehicle to be used to submit a Concise Note. Form 740M may be attached to a DOE/NRC Form 741, Transaction Report; a DOE/NRC Form 742, Material Balance Report; a DOE/NRC Form 742C, Physical Inventory Listing; or a stand alone concise note for facilities reporting under 10CFR 75. No classified information should be entered on DOE/ NRC Form 740M. These instructions detail the procedures for the use of Form 740M:

Instructions for Completing DOE/NRC Form 740M

The numbered blocks of the DOE/NRC Form 740M shall be filled in as follows:

1. Name and address: Enter the name and address of the reporting facility.

2. Attachment to: Place a check mark or an X in the appropriate box to indicate whether this explanatory information will be attached to a DOE/NRC Form 741/741A, 742, or 742C.

3. RIS. Enter the Reporting Identification Symbol (RIS) for the Facility to which the explanatory information in this report applies. For IAEA facilities, use the IAEA facility code.

4. Reporting Period: Complete this block if box 2b or 2c was checked, indicating that this Concise Note is attached to a DOE/NRC Form 742, Material Balance Report or DOE/NRC Form 742C, Physical Inventory Listing. Enter the beginning and ending dates of the reporting period as shown on Form 742 or Form 742C.

5. Transaction Data: Complete this block only if box 2a was checked, indicating that this Form 740M is attached to a Form 741/741A, Nuclear Material Transaction Report or if a stand alone concise note is reported. Copy the requested data from Form 741/741A. All entries in this block must be identified to those on the Form 741/741A. Fill in the blocks as follows:

   a. Shipper's RIS: Enter the RIS of the shipper.

   b. Receiver's RIS: Enter the RIS of the receiver.

   c. Transaction No.: Enter the unique transaction number.

   d. Correction No.: If Form 741/741A is a correction to a previous report, enter the correction number.

   e. Processing Code: Insert the same code used in DOE/NRC Form 741

   f. Action Code: If a Form 740M is used with a Form 741, enter the same action code as on Form 741 Block 7, otherwise enter action code "M."

   g. Data Code: Leave blank

6. Reporting Date: Complete this block if box 2a or 2c was checked. Copy the date shown on Form 741/741A or 742C.

7. License Number(s): Enter any applicable license number(s).

8. This block contains the actual explanatory data and the other data necessary to link the explanatory data to the part(s) of the report to which they apply. Complete this block as follows:

   a. Line Number: Enter consecutive numbers beginning with one (1) for each explanatory reference.

   b. Entry Reference: If the explanatory information entered on this line of the Form 740M applies to the entire Form 741/741A, 742, or 742C, enter the words, "WHOLE REPORT." If the explanation applies to the data on a specific batch on a Form 741/741A or 742C, copy the batch name exactly as it appears on Form 741/741A or 742C. If the explanation applies to a specific material balance category on a Form 742, enter the two-digit number of the material balance category. Additionally, if the explanation applies to material balance categories 11, 30, 42, 43, or 51, enter the RIS shown on that line of the Form 742; if the explanation applies to categories 22 or 71, enter the two-character inventory change type (ICT) as shown on that line of the Form 742. If Form 740M action code is "M," enter "General."

   c. Text of Concise Note: Enter any 43 characters of letters, numbers, or special characters per line. Up to 99 lines of text may be used for any one explanation.

9. Signature: The DOE/NRC Form 740M is to be signed by an authorized representative of the licensee. See II.A.24.T

10. Title: Enter the title of the person signing the form.

11. Date: Enter the date the form was signed.

12. Computer-readable format: DOE/NRC Form 740M may be put into computer-readable format following additional guidance in NMMSS Report D-24.

13. Distribution of Form 740M

    Copies of Form 740M shall be attached to and distributed with DOE/NRC Form 741/741A, 742, or 742C to which Form 740M applies.

VII. DOE REPORTING REQUIREMENTS FOR PROPRIETARY INTERESTS OF THE GOVERNMENT

NRC licensees are responsible to routinely report to NMMSS all DOE-owned, loaned, or leased material in their possession as outlined in DOE Order Series 5630 and 470 (DOE Order M 474.1 and DOE Manuals M 474.1-1 "Control and Accountability of Nuclear Material" and M 474.1-2, " Nuclear Materials Management and Safeguards System Reporting and Data Submission," dated February 10, 1998).

APPENDIX I

LISTING OF IDENTIFICATION CODES FOR U.S. CUSTOMS PORTS

Sorted by: (1) State
(2) Port

APPENDIX I
LISTING OF IDENTIFICATION CODES FOR U.S. CUSTOMS PORTS

PORT OF ENTRY/EXIT	STATE	CODE TO BE USED IN BLOCK 16B On FORM 741
Unknown Port (Mail)		9999
Alcan	AK	3104
Anchorage	AK	3126
Fairbanks	AK	3111
Juneau	AK	3101
Ketchikan	AK	3102
Kodiak	AK	3127
Pelican	AK	3124
Petersburg	AK	3112
Sand Point	AK	3125
Sitka	AK	3115
Skagway	AK	3103
Wrangell	AK	3105
Birmingham	AL	1904
Mobile	AL	1901
Douglas	AR	2601
Little Rock-North Little Rock	AR	2003
Lukeville	AR	2602
Naco	AR	2603
Nogales	AR	2604
Phoenix	AR	2605
San Luis	AR	2608
Sasabe	AR	2606
Nassau	Bahamas	5221
Kindly Field	Bermuda	4721

APPENDIX I (continued)

PORT OF ENTRY/EXIT	STATE	CODE TO BE USED IN BLOCK 16B On FORM 741
Andrade	CA	2502
Calexico	CA	2503
Eureka	CA	2802
Fresno	CA	2803
Los Angeles	CA	2704
Los Angeles Int'l Airport	CA	2720
Port San Luis	CA	2707
San Diego	CA	2501
San Francisco/Oakland	CA	2809
San Francisco Int'l Airport	CA	2801
San Ysidro	CA	2504
Tecate	CA	2505
Montreal Airport	CN	0221
Toronto Airport	CN	0921
Vancouver	CN	3028
Winnipeg	CN	3428
Denver	CO	2405
Bridgeport	CT	0601
Hartford	CT	0602
New Haven	CT	0603
New London	CT	0604
Washington	DC	5401
Wilmington	DE	1103
Apalachicola	FL	1905
Boca Grande	FL	1807
Carrabelle	FL	1906
Fernandina Beach	FL	1805
Jacksonville	FL	1803
Key West	FL	5202

APPENDIX I (continued)

PORT OF ENTRY/EXIT	STATE	CODE TO BE USED IN BLOCK 16B On FORM 741
Miami	FL	5201
Miami Int'l Airport	FL	5206
Panama City	FL	1907
Pensacola	FL	1908
Port Canaveral	FL	1816
Port Everglades	FL	5203
Port St. Joseph	FL	1909
St. Petersburg	FL	1814
Tampa	FL	1801
West Palm Beach	FL	5204
Atlanta	GA	1704
Brunswick	GA	1701
Savannah	GA	1703
Hilo	HI	3202
Honolulu	HI	3201
Honolulu Int'l Airport	HI	3205
Kahului	HI	3203
Nawiliwili - Port Allen	HI	3204
Des Moines	IA	3907
Eastport	ID	3302
Porthill	ID	3308
Chicago	IL	3901
O'Hare International Airport	IL	3906
Peoria	IL	3902
Evansville	IN	4113
Indianapolis	IN	4110
Lawencesburg	IN	4114
Wichita	KS	4504
Louisville	KY	4115

APPENDIX I (continued)

PORT OF ENTRY/EXIT	STATE	CODE TO BE USED IN BLOCK 16B On FORM 741
Baton Rouge	LA	2004
Lake Charles	LA	2105
Morgan City	LA	2001
New Orleans	LA	2002
Boston	MA	0401
Fall River	MA	0407
Gloucester	MA	0404
Lawrence	MA	0416
Logan Airport	MA	0417
New Bedford	MA	0405
Plymouth	MA	0406
Salem	MA	0408
Springfield	MA	0402
Worcester	MA	0403
Annapolis	MD	1301
Baltimore	MD	1303
Cambridge	MD	1302
Bangor	ME	0102
Bar Harbor	ME	0112
Bath	ME	0111
Belfast	ME	0132
Bridgewater	ME	0127
Calais	ME	0115
Eastport	ME	0103
Fort Fairfield	ME	0107
Fort Kent	ME	0110
Houlton	ME	0106
Jackman	ME	0104
Jonesport	ME	0122

APPENDIX I (continued)

PORT OF ENTRY/EXIT	STATE	CODE TO BE USED IN BLOCK 16B On FORM 741
Limestone	ME	0118
Madawaska	ME	0109
Rockland	ME	0121
Van Buren	ME	0108
Vanceboro	ME	0105
Detroit	MI	3801
Muskegon	MI	3815
Port Huron	MI	3802
South Haven	MI	3822
Saginaw - Bay City	MI	3804
Sault St. Marie	MI	3803
Baudette	MN	3424
Duluth	MN	3601
Grand Portage	MN	3613
International Falls-Rainer	MN	3604
Minneapolis - St. Paul	MN	3501
Noyes	MN	3402
Pinecreek	MN	3425
Roseau	MN	3426
Warroad	MN	3423
Kansas City	MO	4501
St. Joseph	MO	4502
St. Louis	MO	4503
Greenville	MS	2011
Gulfport	MS	1902
Pascagoula	MS	1903
Vicksburg	MS	2015
Butte	MT	3305
Del Bonita	MT	3322

APPENDIX I (continued)

PORT OF ENTRY/EXIT	STATE	CODE TO BE USED IN BLOCK 16B On FORM 741
Great Falls	MT	3304
Morgan	MT	3319
Opheim	MT	3317
Piegan	MT	3316
Raymond	MT	3301
Roosville	MT	3318
Scobey	MT	3309
Sweetgrass	MT	3310
Turner	MT	3306
Whitetail	MT	3312
Whitlash	MT	3321
Beaufort-Morehead City	NC	1511
Charlotte	NC	1512
Durham	NC	1503
Reidsville	NC	1506
Wilmington	NC	1501
Winston-Salem	NC	1502
Ambrose	ND	3410
Antler	ND	3413
Carbury	ND	3421
Dunseith	ND	3422
Fortuna	ND	3417
Hannah	ND	3408
Hansboro	ND	3415
Maida	ND	3416
Neche	ND	3404
Noonan	ND	3420
Northgate	ND	3406

APPENDIX I (continued)

PORT OF ENTRY/EXIT	STATE	CODE TO BE USED IN BLOCK 16B On FORM 741
Pembina	ND	3401
Portal	ND	3403
Sarles	ND	3409
Sherwood	ND	3414
St. John	ND	3405
Walhalla	ND	3407
Westhope	ND	3419
Omaha	NE	3903
Portsmouth	NH	0131
Camden	NJ	1107
Gloucaster	NJ	1113
Newark	NJ	4601
Perth Amboy	NJ	4602
Albuquerque	NM	2407
Columbus	NM	2406
Las Vegas	NV	2722
Reno	NV	2833
Albany	NY	1002
Alexandria Bay	NY	0708
Buffalo-Niagara Falls	NY	0901
Cape Vincent	NY	0706
Champlain-Rouses Point	NY	0712
Chateaugay	NY	0711
Clayton	NY	0714
Fort Covington	NY	0705
J. F. Kennedy Int'l Airport	NY	4701
Massena	NY	0704
Morristown	NY	0707
New York	NY	1001

APPENDIX I (continued)

PORT OF ENTRY/EXIT	STATE	CODE TO BE USED IN BLOCK 16B On FORM 741
Ogdensburg	NY	0701
Oswego	NY	0904
Rochester	NY	0903
Sodus Point	NY	0905
Syracuse	NY	0906
Trout River	NY	0715
Utica	NY	0907
Waddington	NY	0713
Akron	OH	4112
Ashtabula	OH	4108
Cincinnati	OH	4102
Cleveland	OH	4101
Columbus	OH	4103
Conneaut	OH	4109
Dayton	OH	4104
Sandusky	OH	4107
Toledo	OH	4105
Astoria	OR	2901
Coos Bay	OR	2903
Newport	OR	2902
Portland	OR	2904
Oklahoma City	OK	5304
Tulsa	OK	5305
Chester	PA	1102
Erie	PA	4106
Harrisburg	PA	1109
Philadelphia	PA	1101
Pittsburgh	PA	1104
Wilkes-Barre/Scranton	PA	1106

APPENDIX I (continued)

PORT OF ENTRY/EXIT	STATE	CODE TO BE USED IN BLOCK 16B On FORM 741
Aguadilla	PR	4901
Fajardo	PR	4904
Guanica	PR	4905
Humacao	PR	4906
Jabos	PR	4911
Mayaguez	PR	4907
Ponce	PR	4908
San Juan	PR	4909
San Juan Int'l Airport	PR	4913
Newport	RI	0501
Providence	RI	0502
Charleston	SC	1601
Columbia	SC	1604
Georgetown	SC	1602
Greenville-Spartanburg	SC	1603
Chattanooga	TN	20O8
Knoxville	TN	2016
Memphis	TN	2006
Nashville	TN	2007
Beaumont	TX	2104
Amarillo	TX	5307
Brownsville	TX	2301
Corpus Christi	TX	2205
Dallas - Fort Worth	TX	5306
Del Rio	TX	2302
Eagle Pass	TX	2303
El Paso	TX	2402
Fabens	TX	2404
Freeport	TX	2204

APPENDIX I (continued)

PORT OF ENTRY/EXIT	STATE	CODE TO BE USED IN BLOCK 16B On FORM 741
Galveston	TX	2201
Hidalgo	TX	2305
Houston	TX	5301
Laredo	TX	2304
Lubbock	TX	5308
Orange	TX	2103
Port Arthur	TX	2101
Port Lavaca/Port Comfort	TX	2208
Presido	TX	2403
Progresso	TX	2309
Rio Grande City	TX	2307
Roma	TX	2310
Sabine	TX	2102
San Antonio	TX	2308
Salt Lake City	UT	2832
Alexandria	VA	5402
Cape Charles City	VA	1406
Newport News	VA	1402
Norfolk	VA	1401
Portsmouth	VA	1401
Reedville	VA	1407
Richmond - Petersburg	VA	1404
Charlotte Amalie	VI	5101
Christiansted	VI	5104
Coral Bay	VI	5103
Cruz Bay	VI	5102
Frederiksted	VI	5105
St. Croix Airport	VI	5207
St. Thomas Airport	VI	5208

APPENDIX I (continued)

PORT OF ENTRY/EXIT	STATE	CODE TO BE USED IN BLOCK 16B On FORM 741
Alburg	VT	0205
Beecher Falls	VT	0206
Burlington	VT	0207
Derby Line	VT	0209
Highgate Springs	VT	0210
North Troy	VT	0208
Norton	VT	0211
Richford	VT	0203
St. Albans	VT	0201
Aberdeen	WA	3003
Anacortes	WA	3010
Bellingham	WA	3005
Blaine	WA	3004
Boundary	WA	3015
Danville	WA	3012
Everett	WA	3006
Ferry	WA	3013
Friday Harbor	WA	3014
Frontier	WA	3020
Laurier	WA	3016
Longview	WA	2905
Lynden	WA	3023
Metaline Falls	WA	3025
Neah Bay	WA	3027
Nighthawk	WA	3011
Olympia	WA	3026
Oroville	WA	3019
Port Angeles	WA	3007
Port Townsend	WA	3008

APPENDIX I (continued)

PORT OF ENTRY/EXIT	STATE	CODE TO BE USED IN BLOCK 16B On FORM 741
Seattle	WA	3001
Seattle-Tacoma Int'l Airport	WA	3029
South Bend - Raymond	WA	3021
Spokane	WA	3022
Sumas	WA	3009
Tacoma	WA	3002
Ashland	WI	3602
Green Bay	WI	3703
Manitowoc	WI	3706
Marinette	WI	3702
Milwaukee	WI	3701
Racine	WI	3708
Sheboygan	WI	3707
Superior	WI	3608
Charleston	WV	1409

APPENDIX II

COMPOSITION AND NATURE OF TRANSACTION CODES

APPENDIX II
COMPOSITION AND NATURE OF TRANSACTION CODES

1. Composition Codes (For Additional Codes See NMMSS Report D-25 and ANSI Codes Report D-50A-109). These codes are for use in completing Blocks 24G or 25G of DOE/NRC Form 741. If your installation has been notified by letter from the NRC, as provided in 10CFR 75.11, that it has been identified under the U.S./IAEA Safeguards Agreement, enter the appropriate code from the list developed during the formulation and negotiation of your facility attachment or transitional facility attachment (after such document has been provided to you under 10CFR 75.8). In accordance with 10CFR 75.11, any change in facility operations or processes that would result in any changes to, additions to or deletions from the list should be communicated to the NRC in writing, to the extent provided in your license conditions, at least 70 days in advance of the changes so that new composition codes can be assigned

CODE	CATEGORY (AND DESCRIPTION, IF WARRANTED)
UNENCAPSULATED - except scrap	
032	U_3O_8
048	UO_3 (Trioxide Product)
770	Carbides
455	Other Oxides Product - For all oxides not otherwise identified
064	Tetrafluorides (Tetrafluoride Product)
083	UF_6 Hexafluoride Product
095	Enriching Process
100	Hexafluorides-Commercial Feed
101	Hexafluorides-Interplant Feed
102	Hexafluorides-in Enriching Process
103	Hexafluoride Product
104	Hexafluorides-Long Term Storage
105	Hexafluorides-Non USEC
106	DOE Cascade Feed
107	Uranium in Cascades-Holdup
120	UF_6 Feed

APPENDIX II (Continued)

CODE	CATEGORY (AND DESCRIPTION, IF WARRANTED)
UNENCAPSULATED - except scrap (Continued)	
773	UF_6 Heels
363	In Reactor Product
409	Nitrate solutions product
786	Acetate solutions product
701	Unalloyed Metal Product
702	Alloyed Metal product
771	Samples and Standards
637	Sintered Products
UNENCAPSULATED - Scrap - for recovery*+	
A00	Unalloyed metal (Pu)
B00	Alloyed metal (Pu)
C00	Compounds (Pu)
D00	Combustibles (Pu)
E00	Noncombustibles (Pu)
F00	Solutions (Pu)
G00	Process Residues (Pu)
375	Irradiate Recyclable Fuel
WASTE - for disposal: Waste material should be described by an appropriate scrap category.	

*American National Standard Institute codes for plutonium scrap may be used in lieu of these codes.
+Where a number of dissimilar items of scrap are put into the same container, use the composition code describing the predominant scrap category.

CODE	CATEGORY (AND DESCRIPTION, IF WARRANTED)
ENCAPSULATED	
291	Fabricated Fuel Elements - pins, rods, plates
309	Fuel assemblies (Assembled Items Product)
481	Sealed sources (Fabricated Sources Product)
OTHER	
776	Other Products
E04	Miscellaneous Noncombustibles (Uranium)

Note: U/Th and Pu/U mixed oxide fuels should be reported either as fuel elements (code 291) or as fuel assemblies (code 309) as applicable.

Report the different material types in the mixed oxide fuels on separate lines.

2. Nature of Transaction These codes are for use in completing Block 12 of DOE/NRC Form 741.

- DOE Owned Material -

A	Initiates lease/financial responsibility
B	Transfers lease/financial responsibility
C	Transfer of leased material - No change of lease or financial responsibility.
D	Return to DOE for credit under DOE lease agreement.
E	Sale for DOE
F	Pursuant to an enriching service agreement
G	Sale to DOE
R	Donation for DOE
S	Donation to DOE

APPENDIX III

SUPPLEMENTAL INSTRUCTIONS FOR COMPLETING BLOCKS 24.J AND 25.J OF DOE/NRC FORM 741

Country Control Numbers

APPENDIX III

SUPPLEMENTAL INSTRUCTIONS FOR COMPLETING BLOCKS 24.J and 25.J OF DOE/NRC FORM 741

Country Control Number (CCN)

The country control number is structured as an eight (8) character code composed of four (4) sets of two character country codes as follows:

Characters	Description
(1 and 2)	- The country of origin of the source material
(3 and 4)	- the country providing isotopic separation services
(5 and 6)	- the country in which reactor products are produced
(7 and 8)	- any other country or international organization attaching safeguards conditions (as explained in Section II, A, 24.J of this NUREG) to the material in addition to any that may be attached by a country identified in set one, two, or three above (characters 1 through 6).

If no country code is entered, zeros must be used. To identify a foreign country, the two character symbol is derived by dropping the "R" at the beginning of the standard three letter foreign country RIS designated heretofore and using the remaining two letters (e.g., "CA" for Canada, "FR" for France, etc.). See list of country RIS's in NMMSS Report D-15.

For all United States origin material, use the two character symbol "US."

A licensee determines the proper CCN, using either the number assigned initially to the material or the initial number plus any applicable set of two character codes following the instructions as stated below.

The appropriate CCN for each nuclear material contained in the transaction is entered in either Blocks 24.J or 25.J, as applicable to DOE/NRC Form 741.

An explanation of each set of two character codes follows:

a. The country of origin of the source material (1st and 2nd characters). The first set of two characters are alpha symbols to identify the country of origin of the source material and is required for all transactions.

   NOTE: The remaining characters (three through eight in sets of two each) are to be used if applicable.

b. The country providing the isotopic separation services (3rd and 4th characters). The second set of two characters are alpha symbols to identify the country that performed the isotopic separation service that originally produced the enriched or depleted uranium in the material involved in the nuclear material transaction.

Some examples are:

(1) Normal uranium mined, converted to concentrates and then to UF_6 in Canada, and the UF_6 was sent to the U.S. and enriched with no safeguards conditions attached by other countries.

The CCN would be CA US 00 00.

(2) Enriched uranium that was a product of normal uranium mined, converted to concentrates and then to UF_6 in the U.S. and the U-235 was enriched in the U.S. with no safeguards conditions attached by other countries.

The CCN would be US US 00 00.

c. The country in which reactor products are produced (5th and 6th characters). The third set of two characters are alpha symbols to identify the country where the production of Plutonium (Pu) or Uranium-233 (U-233) occurred.

Some examples are:

(1) Normal uranium mined, converted to concentrates and then to UF_6 in Canada; UF_6 sent to U.S. and enriched. Fuel elements fabricated in U.S. and shipped to Spain for insertion into a reactor. The irradiated fuel elements are discharged from the Spanish reactor and sent to the U.S. without any safeguards conditions attached by other than the countries already identified in sets 1, 2, and 3 of the CCN. For the produced plutonium the CCN would be CA US SP 00.

(2) Normal uranium mined, converted to concentrates, and then to UF_6 in the U.S., enriched in the U.S., fuel elements fabricated in the U.S., used in a power reactor in the U.S., and irradiated fuel elements discharged from the reactor and sent to a U.S. facility for storage without safeguards conditions attached by other than the countries already identified in sets 1, 2, and 3 of the CCN. For the produced plutonium, the CCN would be US US US 00. For the remaining enriched or depleted uranium, the CCN would be US US 00 00.

d. Any other country or international organization attaching safeguards conditions to the material in addition to those that may be attached by a country identified in set one, two, or three above (a, b, and c, respectively) (7th and 8th characters). The fourth set of two characters may be numeric, alpha or alphanumeric symbols. These last two characters identify any other country(ies) or international organization(s) attaching any special safeguards usage conditions, and are unique for each such combination of country(ies) or organization(s).

"Conditions" attached by the entities indicated by characters 7 and 8 are defined as any applicable supplier requirements that material be used only for peaceful purposes; that material be subject to IAEA safeguards; that the country(ies)

concerned be informed of material location; or that material not be re-transferred to another country, enriched or reprocessed, without the prior consent of the country(ies) concerned. The safeguards conditions attached depend on the terms of agreements for cooperation for supply of material. At the time a U.S. facility applies for a license to import material from a foreign country, the safeguards conditions attached to the material must be known. A unique two-character alphanumeric code will be assigned to each condition or set of conditions attached by any country(ies) or international organization(s) as the safeguards conditions are defined or identified. These codes will be maintained within the NMMSS and disseminated to prospective users.

Characters 7 and 8 may also be used to identify Former Soviet Union or U.S. weapons nuclear material or material for re-enrichment. For this case, the following character are currently authorized:

7th Character	
W	Designates Former Soviet Union nuclear material
X	Designates Former Soviet Union weapons nuclear material for further enriching
D	Designates U.S. nuclear material
O	Designates material for other use
Q	Designates material for further enrichment services
8TH Character	
R	Designates material from Russia
B	Designates material from Belarus
K	Designates material from Kazakstan
U	Designates material from Ukraine
S	Designates material for Storage
O	Designates material for Other Use
N	Designates material with additional enriching in the U.S.

Country Control Number Entries in Blocks 24.J and 25.J of DOE/NRC Form 741

The licensee is to use either the "as received" CCN code intact, without any additions, or the "as received" CCN code with any applicable addition of one or more sets of two-character codes incurred while the material was in the possession of the licensee.

The use or application of CCN codes for import material are special cases and are developed and perpetuated as described below.

a. Imports

Each import of nuclear material into the U.S. requires an import license, either specific or general. As a condition for obtaining a specific license, the importing facility must identify: the country of origin of the source material; the country which provided any isotopic separation; the country in which reactor products were produced (if any); and the country(ies) or organization(s) attaching safeguards conditions, if applicable. When material is imported having special safeguards conditions attached, the NRC will provide the proper code(s) to be used in characters 7 and 8 of the CCN. In cases of import of source or special nuclear material under a general license, the importing facility is required to provide the above listed information upon submission of the DOE/NRC Form 741 which documents the transaction.

At the time the imported nuclear material is received at the facility, a DOE/NRC Form 741 is prepared to document the transfer of the material. All shippers and receivers data are to be entered, including the appropriate country control number(s) which must be entered in Blocks 24.J and 25.J for each nuclear material imported.

NOTE: Only one import license number and/or contract number is to be entered on a DOE/NRC Form 741. If more than one license number and/or contract number applies to the material received, a separate DOE/NRC Form 741 is prepared to document the transfer of the material imported under each license number and/or contract number.

The CCN, assigned to material on its import into the U.S., is used to follow (track) that material throughout the U.S.

Following are only a few of the many possible examples of how to construct the appropriate CCN code to identify material imported into the U.S.:

(1) Source material (normal uranium concentrates) imported into the U.S. from Canada, with no safeguards conditions attached by other countries.

CCN: CA 00 00 00

(2) Normal uranium mined in Canada, converted to concentrates, then to UF_6, shipped to a U.S. enrichment facility and then to a U.S. fabrication facility, with no conditions attached by other countries.

CCN: CA US 00 00

(3) Normal uranium was mined in Australia and then converted to concentrates, enriched and fabricated into fuel elements in the United Kingdom. The elements were included in a fuel assembly and put in power reactors in the United Kingdom; then the spent fuel elements, containing reactor products Pu and/or U-233, are shipped to the U.S. The material has no safeguards attached.

CCN: AU UK UK 00

(4) The material described in (3) above is subject to International Atomic Energy Agency (IAEA) safeguards at the time it was shipped to a U.S. facility. The material now has IAEA safeguards conditions attached, the latter identified, for this example, by code "XX."

CCN: AU UK UK XX

b. Transfers Within the U.S.

Transfers of nuclear material are documented on the DOE/NRC Form 741. The form must show the CCN in Block 24.J or 25.J.

(1) Transfer of Imported Material

For the initial transfer of imported material from the importing facility to another U.S. facility, the DOE/NRC Form 741 must show the CCN assigned to the material at the time of import modified as necessary to reflect any change in the material status while possessed by the importing facility. If material from more than one CCN is being transferred in the shipment, a separate line must be used for the quantity associated with each CCN.

For example:

Canadian source material (normal uranium) already in the U.S. and subsequently shipped to a U.S. enrichment facility. The material has no safeguards conditions attached by other countries.

CCN: CA 00 00 00

(2) Transfer of Enriched Material From Enrichment Facilities

When a U.S. shipping facility has enriched the material and the enriched product is being transferred, the CCN assigned to the product will retain the identity of the country of origin of the source material and any country(ies) or organization(s) attaching safeguards conditions. In addition, the shipper will enter "US" in the second set of two-character codes of the original CCN to denote that the material was enriched or depleted in the U.S.

(3) Transfer of Material Between U.S. Facilities Other Than The Importing Facility)

If no change in the status of the material (i.e., enrichment or use in a reactor) has resulted form the use in the shipping facility, the facility will enter in Block 24J the CCN obtained from the DOE/NRC Form 741 originally transferring the material into the facility.

NOTE: The CCN does not change as a result of the conversion or the fabrication operations.

(4) Transfer of Reactor Products

If a reactor product resulted at the shipping facility, enter "US" in the third set of two-character codes of the CCN to identify the country producing the reactor product.

The receiving facility involved in all of the above instances must identify in its records system the quantity of each type of material received associated with each CCN.

Reports prepared from the U.S. tracking system inventory files and furnished to each facility holding nuclear material will provide a means of verifying the accuracy of the facility records.

c. Exports

Each export of nuclear material from the U.S. requires an export license, either specific or general. As a condition for obtaining a license to export nuclear material from the U.S., the exporting facility will be asked to identify the country of origin of the material, the country providing any isotopic separation, the country in which any reactor products are produced, and the country(ies) or organization(s) attaching safeguards conditions, if applicable. Such information will be used by the NRC to determine if the export license can be approved.

At the time of export, the exporter must prepare a DOE/NRC Form 741 transfer document entering in Block 24J, the CCN which identifies the source or spencial nuclear material being exported.

If material with more than one CCN is involved in the shipment, a separate line must be used for the quantity associated with each CCN.

The CCN must agree with the CCN account holdings (inventory) shown on the exporting facility "book inventory." Examples of exports:

(1) Canadian origin material shipped to Australia after enrichment in the U.S. with no safeguards conditions attached by other countries.

CCN: CA US 00 00

(2) U.S. origin material enriched in the U.S. is shipped to Germany for conversion of the UF_6 to UO_2 with no safeguards conditions attached by other countries.

CCN: US US 00 00

(3) Canadian origin material, enriched in the U.S., fabricated into fuel elements for and used in a U.S. power reactor, and the spent fuel elements containing reactor products (Pu and/or U-233), are shipped to Japan with no safeguards conditions attached by other countries.

CCN: CA US US 00 For Pu

CA 00 US 00 For U-233

CA US 00 00 For the Uranium component

APPENDIX IV

INVENTORY CHANGE TYPE CODES

FOR COMPLETING BLOCKS 24B AND 25B OF DOE/NRC FORM 741

APPENDIX IV
INVENTORY CHANGE TYPE CODES

All inventory change type codes on transaction reports consist of two alphabetic or numeric characters. The accounting entry type codes used on Material Balance Reports (MBRs) consist of two digits. In the following pages the number(s) in parenthesis following the alphabetic code represent the MBR line for which the transaction entries correspond. The standard inventory changes and other entry types are listed below. In transaction reports, all transactions and operations are understood to be related to individual batches. In MBRs, the same corresponding codes denote consolidated entries; i.e., the sums of all individual operations with the same code over the material balance period. In addition, MBRs include entries related to inventory data and adjustments not reported on transaction reports.

Gains or losses of material which occur based on the total inventory or in which individual effects to inventories by country control number cannot be determined, should be reported as a loss to all country control number balances by applying a one to one ratio by percent of country control number to the amount of inventory affected to the amount of the inventory change. For example, if decay is reported for plutonium within a reactor and the plutonium balance represents several different country control number balances the following calculations would determine the amount of decay to apply to each country control number balance.

	Element	Isotope
Amount of inventory for which decay applies	1,202,239	950,947
Calculated decay for the period	998	998

Balance by Country Control Number

CCN	ELEMENT	ISOTOPE	% Ratio to Total Inventory
UKUSUS00	200,000	158,196	200,000/1,202,239 = .166 x 100 = 17%
USFRUS00	509,321	402,863	509,321/1,202,239 = .424 x 100 = 42%
CAUSUS00	492,918	389,888	492,918/1,202,239 = .410 x 100 = 41%
Total Pu			
Balance	1,202,239	950,947	100%

Amount of decay to apply to each country control number balance

UKUSUS00	998 x 17% = 169.66 rounded to the nearest gram = 170
USFRUS00	998 x 42% = 419.16 rounded to the nearest gram = 419
CAUSUS00	998 x 41% = 409.18 rounded to the nearest gram = 409
	998

The above procedure should also be followed using the isotope balances.

TRANS. MBR CODE LINE	EXPLANATION	REQUIREMENT FOR BLOCKS 24.B AND 25.B
RF (11, 13, 30, 38, 39)	Nuclear material imported into the United States (Receipt Foreign)	Make no entry
RD (11, 13, 30, 38,39)	Domestic receipt of nuclear material from another domestic RIS (Receipt Domestic)	Make no entry
RN (11, 13, 30, 38,39)	Domestic receipt of nuclear material from activity not subject to 10 CFR Part 74	Make no entry
NP (21)	Production of fissionable material in a reactor (Pu, U-233)	Entry required by licensee
DU (76)	Reapplication of safeguards in nuclear material previously exempted therefrom pursuant to Article 38 of the Agreement after being exempted based on use (Licensees subject to 10 CFR 75 only)	Entry required only after notification by NRC
DQ (76)	Reapplication of safeguards on nuclear material previously exempted therefrom pursuant to Article 38 of the Agreement after being exempted based on quantity (Licensees) subject to 10 CFR 75 only)	Entry required only after notification by NRC
SF (42, 43, 51,58, 59)	Export of nuclear material out of the United States	Make no entry
SD (42, 43, 51,58, 59)	Domestic transfer of nuclear material to another Domestic RIS	Make no entry
SN (42, 43, 51,58, 59)	Domestic transfer of nuclear material from a facility subject to 10 CFR Part 75 to a waste management facility	Entry required
SN (42, 43, 51,58, 59)	Domestic transfer of nuclear material from a facility subject to 10 CFR Part 75 to a facility other than a waste management facility	Make no entry

TRANS. MBR CODE LINE	EXPLANATION	REQUIREMENT FOR BLOCKS 24.B AND 25.B
LN* (73)	Consumption of nuclear material due to its transformation into other element(s) or isotope(s) as a result of nuclear reactions (burnup)	Entry required by licensee
*NOTE:	When calculating weight % isotope in the case of burnup or decay, report the same weight % isotope for decay and burnup as the weight % isotope of the beginning inventory for the period.	
TN* (72)	Consumption of nuclear material due to its transformation into other elements or isotope(s) as a result of nuclear reactions (decay)	Entry required by licensee
LD (74)	Normal operational loss/measured discard; i.e., loss of a measured or estimated (on the basis of measurement) quantity of nuclear material from processing which has been disposed of in such a way that it is not suitable for further nuclear use	Entry required by licensee
TW (74)	Transfer to the retained waste category of measured nuclear material which is deemed to be irrecoverable, to be stored at the MBA and to be deleted from the inventory of the MBA	Entry required by licensee
FW (51)	Retransfer of material which has been stored at the MBA as retained waste to the nuclear material inventory. This applies whenever material in the retained waste category is removed from storage either for processing at the MBA or for retransfer from the MBA	Entry required by licensee
EU (76)	Exemption of nuclear material from safeguards pursuant to Article 36 of the Agreement (Licensees subject to 10 CFR Part 75 only)	Entry required only after notification by NRC

TRANS. MBR CODE LINE	EXPLANATION	REQUIREMENT FOR BLOCKS 24.B AND 25.B
EQ (76)	Exemption of nuclear material from safeguards pursuant to Article 37 of the Agreement (Licensees subject to 10 CFR Part 75 only)	Entry required only after notification by NRC
TU (76)	Termination of safeguards on nuclear material pursuant to Articles 13 and 35 of the Agreement (Licensees subject to 10 CFR Part 75 only)	Entry required only after notification by NRC

*NOTE: When calculating weight % isotope in the case of burnup or decay, report the same weight % isotope for decay and burnup as the weight % isotope of the original inventory for the period.

LA (75)	Irretrievable and inadvertent loss of a known quantity of nuclear material as the result of an operational accident	Entry required by licensee
GA (75)	Nuclear material unexpectedly found to be present in the MBA, except when detected in the course of a physical inventory taking	Entry required by licensee
DI (N/A)	The difference between the batch quantity reported as received (always on shipper's data) and the quantity of the same batch as measured by the operator of the receiving MBA (Licenses subject to 10 CFR Part 75 only)	Make no entry
RM (N/A)	The quantity by which the batch mentioned in the entry is diminished in cases of rebatching (Licensees subject to 10 CFR Part 75 only)	Licensee entry required, if applicable
RP (N/A)	The quantity of material added from another batch to the batch mentioned in the entry (Licensees subject to 10 CFR Part 75 only)	Licensee entry required, if applicable

TRANS. MBR CODE LINE	EXPLANATION	REQUIREMENT FOR BLOCKS 24.B AND 25.B
EN (22,71) ED NE ND DE DN EE	Category Change - The quantity of uranium which has changed category as a result of blending, enrichment, depletion or burn-up. The first letter denotes the original, the second letter the resulting category (E=enriched, N=natural (for "normal"), D=depleted uranium, EE=change of enrichment). The material type codes should be those for both the original and the resulting material. The weight data should be provided both for the originating and for the resulting category. These entries should be consolidated into the material balances for both categories. For any of these changes line pairing is required, one denoting the original material and the other denoting the resulting material.	Entry required by licensee
MF (77)	Inventory difference: this should be calculated as the difference between the book inventory and the ending physical inventory	Entry required by licensee
PB (N/A)	Beginning physical inventory: it should be equal to the ending physical inventory of the previous MBR relating to the same material	Make entry required
BA (83)	The algebraic sum of the beginning physical inventory and of the inventory changes over the period, adjusted to take account of the shipper-receiver differences	Make entry required
PE (N/A)	The sum of all measured and derived batch quantities of nuclear material on hand at the date of the physical inventory taking	Make entry required

TRANS. MBR CODE LINE	EXPLANATION	REQUIREMENT FOR BLOCKS 24.B AND 25.B
RAXX (N/A)	Applicable to licensees subject to the 10 CFR Part 75 only - the quantity that has to be added to the rounded sum to make it equal to the sum of the rounded terms. A rounding adjustment is made to an entry in the MBR on which the IAEA has been informed differently through ICRs and PILs, in order to bring the MBR entry into agreement with the corresponding figures established on the basis of ICRs and PILs. In the case of the book inventory and of the ID or MUF, the following formulae should be used respectively. $RABA = PB + IC_{MBR} - DI - BA$ and $RAMF + BA - PE - MF$ where ICMBR represented the sum of the consolidated inventory changes as reported in the MBR, taken with the appropriate sign if they represent decreases. All other notations are as defined for this data element. No rounding adjustment is needed for the beginning physical inventory. The rounding adjustment should be coded RAXX where XX stands for the code of the entry to which the rounding adjustment pertains, e.g., RALN means a rounding adjustment to the consolidated entry on the nuclear loss.	Entry by licensee required only if applicable

TRANS. MBR CODE LINE	EXPLANATION	REQUIREMENT FOR BLOCKS 24.B AND 25.B
34 (30)	Receipts - Miscellaneous. Enter quantities of material received in two-party transactions where only receiver's data are reported or receipts of quantities of material falling below the reporting level and now cumulatively total 1 gram or more for SNM or 1 kilogram or more for source material. Examples include receipts of material (not reported elsewhere) from facilities that have not been assigned a reporting identification symbol, and receipts from licensees that are not required to document or report transactions.	Licensee entry required
37	Procurement by others. Enter quantities of material purchased by the facility for its own account from in-situ material which it had been holding or, material which the facility is processing for another licensee.	
54 (51)	Shipments - Miscellaneous. Enter quantities of material shipped in two-party transactions where only shipper's data are reported or shipments of quantities of material falling below the reporting level and now cumulatively total 1 gram or more of SNM or 1 kilogram or more for source material. Examples include shipments of material (not reported elsewhere) from facilities that have not been assigned a reporting identification symbol, and shipments from licensees that are not required to document or report transactions.	Licensee entry required
65	Rounding Bias.	Make no entry

APPENDIX V

Examples of Documents Correcting Shipper and Receiver Data

(Blocks 24 and 25)

EXAMPLE 1 - INITIAL REPORT

On May 16, 1982 shipper "XXX" transferred to receiver "YYY" fabricated fuel elements containing:

Line		Element	Isotope
1	natural uranium	2 kilograms	
2	1.7080% enriched uranium	5,429 grams	93.00 gms
3	2.0110% enriched uranium	8,220 grams	65.00 gms
4	2.2180% enriched uranium	5,469 grams	21.00 gms

On May 30, 1982 receiver "YYY" acknowledged receipt of the shipment and accepts shipper "XXX" weights without further measurement.

These transactions were reported on XXX/YYY/2 (Example 1).

EXAMPLE 2 - CORRECTION 1

On July 30, 1982, the shipper corrects the element weights for lines 1 and 3 to reflect adjusted element weights of 3 and 9220 respectively.

This correction is reported on XXX/YYY/2/1 (Example 2).

EXAMPLE 3 - CORRECTION 2

On November 15, 1982 shipper reports an adjustment to the country control number entry on detail line 04 of correction 1 report (line 3 of the original report).

This correction is reported on XXX/YYY/2/2 (Example 3).

NOTE: The line of data was adjusted in the correction 1 report. Therefore, for the back reference in Block 24M, the most recent prior correction number is "1" with line number "04".

EXAMPLE 4 - CORRECTION 3

On December 31, 1982 receiver reports an adjustment to the weight percent isotope on line 2 of the initial report.

This correction is reported on XXX/YYY/2/3 (Example 4).

NOTE: No other corrections by the receiver have been made to the initial

report. Therefore, for the back reference in block 24M, a "0" is used to reference the correction number from the 741 being corrected.

EXAMPLE 5 - INITIAL REPORT ACTION CODE M

On September 30, 1987 facility XXX reported decay, production and inventory difference.

These inventory changes were reported on XXX/XXX/1 (Example 5).

EXAMPLE 6- CORRECTION 1 TO ACTION CODE M

On March 31, 1999 facility XXX corrects the country control number and, of element and isotope weights on line 3 and 4. In addition, the element and isotope weights on line 6 were corrected and a new line was added.

EXAMPLE 7- Initial Report

On May 30, 1999 shipper "XXX" transferred material to receiver "RYYY"

EXAMPLE 8 - Correction 1

On May 30, 1999, the shipper realized the export license number was incorrect (Block 16). Correction one was issued to negate the values in Block 24. The back reference number listed in Block 24M is 001.

EXAMPLE 9 - Correction 2

Correction 2 was issued showing the correct number in Block 16. Block 24 values are restated as they were listed on the initial report. The back reference number listed in Block 24M is 101.

Matching correction documents would be required for the receiving facility.

PAGE OF PAGES

DOE/NRC FORM 741
(4-1999) Previous editions are obsolete
MANDATORY DATA COLLECTION
AUTHORIZED BY 10 CFR 30, 40, 50, 70, 75, 150, Public Laws 83-703, 93-438, 95-91

EXAMPLE 1: INITIAL REPORT

U.S. DEPARTMENT OF ENERGY AND U.S. NUCLEAR REGULATORY COMMISSION

NUCLEAR MATERIAL TRANSACTION REPORT

APPROVED BY OMB: NO. 3150-0003 EXPIRES: 04/30/2002

Estimated burden per response to comply with this mandatory collection request: 45 minutes. This information is required for IAEA accounting reports that show changes in inventory of nuclear material. Send comments regarding burden estimate to the Records Management Branch (T-6 E6), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by internet e-mail to bjs1@nrc.gov, and to the Desk Officer, Office of Information and Regulatory Affairs, NEOB-10202, (3150-0003), 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.

1. SHIPPER'S RIS (1-4)	2. RECEIVER'S RIS (5-8)	3. TRANSACTION NO. (9-14)	4. CORRECTION NO. (15)	5. PROCESSING CODE (16)	6. RESERVED (17)	7. ACTION CODE (18)	8. DATA CODE (19)	DOCUMENTATION (Only if document is classified SECRET)
XXX	YYY	2		SHIPPER A RECEIVER A		SHIPPER A RECEIVER B		PAGE OF PAGES COPY OF COPIES, SERIES

9.A. NAME AND ADDRESS OF SHIPPER — 8. LICENSE NO. SUB-000

Nuclear Facility
Anywhere, US 12345
C. ATTENTION:
D. TELEPHONE: (100) 555-5555

10 A. NAME AND ADDRESS OF RECEIVER — 9. LICENSE NO. SUB-001

Nuc. Inc.
Somewhere, US 54321
C. ATTENTION:
D. TELEPHONE: (200) 555-5555

11. NO. OF DATA LINES (20-71): 04 — 12. NATURE OF TRANSACTION (11-12): N

13 A. SHIPPED FOR ACCOUNT OF: SAME — B. RIS (23-26)

14 A. SHIPPED TO ACCOUNT OF: SAME — B. RIS (27-30)

15. TRANSFER AUTHORITY CONTRACT, NM DRAFT, OR ORDER NUMBER (34-50)

16. EXPORT OR IMPORT TRANSFERS: A. LICENSE NO. 3(32-35)

B. U.S. PORT EXIT/ENTRY 3(32-35)

17. MATERIAL TYPE AND DESCRIPTION

Natural uranium-Fabricated fuel elements U-235,
20% - Fabricated fuel elements unirradiated

21. MISCELLANEOUS

B. CONCISE NOTE ATTACHED YES NO X

C. CONCISE NOTE ATTACHED YES NO X

18. TRANSPORTATION PROFILE

A. TRIP 3(1-3)	B. CARRIER IDENTIFICATION	C. TRANSFER POINT	A. MODEL 10.	B. NUMBER
1	3(36-39)	3(40-44)	4(22-25)	4(26-29)
2	3(45-48)	3(49-53)	4(29-32)	4(33-35)
3	3(54-57)	3(59-62)	4(38-35)	4(40-42)
4	3(63-66)	3(67-71)	4(43-46)	4(47-49)
5	3(72-75)		4(50-53)	4(54-58)

19. PACKAGE IDENTIFICATION

20. ACTION DATE

	MONTH 1(70-71)	DAY 1(72-73)	YEAR 1(74-77)
A. SHIPMENT	05	16	82
B. SHIPPER'S CORRECTION			
C. RECEIPT	05	23	82
D. RECEIVER'S MEASUREMENT			
E. RECEIVER'S CORRECTION			

22. TOTAL GROSS WEIGHT 4(57-68): 0000

23. TOTAL VOLUME (Waste Transfers only) 4(67-76)

NO.	DISTRIBUTION OF COPIES
1	YYY (4)
2	QFA
3	File
4	
5	
6	
7	
8	
9	

24. SHIPPER'S DATA

LINE NO. 2-5 (20-71) A	TYPE OF INV. CHANGE 2(22-23) B	IDENTIFICATION (BATCH NAME) 2(24-29) C	NO. OF ITEMS 2(60-63) D	PROJECT NUMBER 2(64-67) E	MATERIAL TYPE 2(15-55) F	COMP. FACILITY CODE 2(56-58) G	PROD CODE 2(60) H	OWNER CODE 2(61) I	COUNTRY CONTROL NUMBER 2(62-65) J	KEY MEAS. POINT 2(68-72) K	MEAS. IDENT. 1 C BASIS 2(72)	2 GMP 2(73-74)	3 METHOD 2(75)	GROSS WEIGHT M	NET WEIGHT N	ELEMENT WEIGHT 5(43-53) O	ELEMENT LIMIT OF ERROR 5(54-56) P	WEIGHED ISOTOPE 5(70-84) Q	ISOTOPE WEIGHT 5(85-94) R	ISOTOPE LIMIT OF ERROR 5(95-98) S
01		Fab Fuel Ele	6		81	291		J	US000000					000	000	2				
02		Fab Fuel Ele	7		20	291		J	USUS0000					000	000	5.429	3	1.7080	93	1
03		Fab Fuel Ele	5		20	291		J	USUS0000					000	000	8.220	4	2.0110	65	1
04		Fab Fuel Ele	8		20	291		J	USUS0000					000	000	5.469	3	2.2180	21	1

24. SHIPPER'S DATA (See instructions (NUREG/BR-0006) for provisions regarding confidentiality)

T. SIGNATURE OF AUTHORIZED OFFICIAL AND DATE SIGNED: James R. DOE 05/18/82

25. RECEIVER'S DATA (See instructions (NUREG/BR-0006) for provisions regarding confidentiality)

T. SIGNATURE OF AUTHORIZED OFFICIAL AND DATE SIGNED: Laura R. Doe 05/30/82

25. RECEIVER'S DATA

BASED ON SHIPPER'S VALUES

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.

PAGE OF PAGES

DOE/NRC FORM 741 (4-1999) Previous editions are obsolete
MANDATORY DATA COLLECTION
AUTHORIZED BY 10 CFR 30, 40, 50, 70, 75, 150, Public Laws 83-703, 93-438, 95-91

Example 2: CORRECTION 1 (shipper adjusting lines 01 and 03 of the initial transaction)

U.S. DEPARTMENT OF ENERGY AND U.S. NUCLEAR REGULATORY COMMISSION

NUCLEAR MATERIAL TRANSACTION REPORT

APPROVED BY OMB: NO. 3150-0003 EXPIRES: 04/30/2002

Estimated burden per response to comply with this mandatory collection request: 45 minutes. This information is required for IAEA accounting reports that show changes in inventory of nuclear material. Send comments regarding burden estimate to the Records Management Branch (T-6 E6), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by internet e-mail to bjs1@nrc.gov, and to the Desk Officer, Office of Information and Regulatory Affairs, NEOB-10202, (3150-0003), 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.

1. SHIPPER'S RIS (1-4)	2. RECEIVER'S RIS (5-8)	3. TRANSACTION NO. (9-14)	4. CORRECTION NO. (15)	5. PROCESSING CODE (16)	6. RESERVED (17)	7. ACTION CODE (18)	8. DATA CODE (19)	DOCUMENTATION (Only if document is classified SECRET)
XXX	YYY	2	1	SHIPPER A / RECEIVER		SHIPPER C / RECEIVER		PAGE OF PAGES COPY OF COPIES, SERIES

9.A. NAME AND ADDRESS OF SHIPPER: Nuclear Facility, Anywhere, US 12345
B. LICENSE NO. SUB - 000
C. ATTENTION:
D. TELEPHONE (100) 555-5555

10.A. NAME AND ADDRESS OF RECEIVER: Nuc. Inc., Somewhere, US 54321
B. LICENSE NO. SUB - 001
C. ATTENTION:
D. TELEPHONE (200) 555-5555

11. NO. OF DATA LINES (20-21): 4
12. NATURE OF TRANSACTION (22): N
13.A. SHIPPED FOR ACCOUNT OF: SAME
B. RIS (23-26)
14.A. SHIPPED TO ACCOUNT OF: SAME
B. RIS (27-30)

NO.	DISTRIBUTION OF COPIES
1	YYY
2	QFA
3	
4	
5	
6	
7	
8	
9	

15. TRANSFER AUTHORITY-CONTRACT, NM DRAFT, OR ORDER NUMBER (31-50)
16. EXPORT OR IMPORT TRANSFERS. A. LICENSE NO. (32-33)
B. U.S. PORT EXIT/ENTRY (34-35)
17. MATERIAL TYPE AND DESCRIPTION

18. TRANSPORTATION PROFILE
19. PACKAGE IDENTIFICATION
20. ACTION DATE

A. TRIP SEQ.	B. CARRIER IDENTIFICATION	C. TRANSFER POINT	A. MODEL ID.	B. NUMBER		MONTH (70-71)	DAY (72-73)	YEAR (74-77)
1	(36-39)	(40-44)	(22-25)	(26-29)	A. SHIPMENT			
2	(45-48)	(49-53)	(30-33)	(33-36)	B. SHIPPER'S CORRECTION	07	30	82
3	(54-57)	(58-62)	(38-39)	(40-42)	C. RECEIPT			
4	(63-66)	(67-71)	(43-46)	(47-49)	D. RECEIVER'S MEASUREMENT			
5	(72-75)		(50-53)	(54-56)	E. RECEIVER'S CORRECTION			

22. TOTAL GROSS WEIGHT (67-66)
23. TOTAL VOLUME (Hydro Transfers only) (67-75)

21. MISCELLANEOUS
B. CONCISE NOTE ATTACHED YES NO X
C. CONCISE NOTE ATTACHED YES NO X

24. SHIPPER'S DATA

LINE NO. (01-20) A	TYPE OF INV. CHANGE (21-23) B	IDENTIFICATION (MATCH NAME) (24-29) C	NO. OF ITEMS (30-34) D	PROJECT NUMBER (35-40) E	MATERIAL TYPE (41-43) F	COMP. FACILITY CODE (44-46) G	PROD CODE (47-48) H	OWNER CODE (49-51) I	COUNTRY CONTROL NUMBER (52-59) J	KEY MEAS. POINT (60-61) K	MEAS. IDENT. L: 1 BASIS (62-63)	2 DIP (64-65)	3 WEIGHING (66-67)	GROSS WEIGHT M.	NET WEIGHT N.	ELEMENT WEIGHT (68-73) O	ELEMENT LIMIT OF ERROR (74-76) P	WEIGHT % ISOTOPE (77-80) Q	ISOTOPE WEIGHT (81-86) R.	ISOTOPE LIMIT OF ERROR (87-89) S
01		Fab Fuel Ele	-6		81	291		J	US000000					001	000	-2				
02		Fab Fuel Ele	7		81	291		J	US000000					101	000	3				
03		Fab Fuel Ele	-5		20	291		J	USUS0000					003	000	-8220	-4	2.0110	-65	-1
04		Fab Fuel Elec	7		20	291		J	USUS0000					103	000	9220	4	2.0110	65	1

24. SHIPPER'S DATA (See instructions (NUREG/BR-0006) for provisions regarding confidentiality)
T. SIGNATURE OF AUTHORIZED OFFICIAL AND DATE SIGNED: James R. DOE 07/30/82

25. RECEIVER'S DATA (See instructions (NUREG/BR-0006) for provisions regarding confidentiality)
T. SIGNATURE OF AUTHORIZED OFFICIAL AND DATE SIGNED

25. RECEIVER'S DATA

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 741 EXAMPLE 3: CORRECTION 2 (shipper adjusting line 04 of correction 1)
(4-1999) Previous editions are obsolete
MANDATORY DATA COLLECTION
AUTHORIZED BY 10 CFR 30, 40, 50, 70, 75, 150, Public Laws 83-703, 93-438, 95-91

U.S. DEPARTMENT OF ENERGY AND U.S. NUCLEAR REGULATORY COMMISSION

NUCLEAR MATERIAL TRANSACTION REPORT

APPROVED BY OMB: NO. 3150-0003 EXPIRES: 04/30/2002
Estimated burden per response to comply with this mandatory collection request: 45 minutes. This information is required for IAEA accounting reports that show changes in inventory of nuclear material. Send comments regarding burden estimate to the Records Management Branch (T-6 E6), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by internet e-mail to bjs1@nrc.gov, and to the Desk Officer, Office of Information and Regulatory Affairs, NEOB-10202, (3150-0003), 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.

1. SHIPPER'S RIS (1-4)	2. RECEIVER'S RIS (5-8)	3. TRANSACTION NO. (9-14)	4. CORRECTION NO. (15)	5. PROCESSING CODE (16)	6. RESERVED (17)	7. ACTION CODE (18)	8. DATA CODE (19)	DOCUMENTATION (Only if document is classified SECRET)
XXX	YYY	2	2	SHIPPER A / RECEIVER		SHIPPER C / RECEIVER		PAGE OF PAGES COPY OF COPIES, SERIES

9 A. NAME AND ADDRESS OF SHIPPER: Nuclear Facility, Anywhere, US 12345
B. LICENSE NO. SUB-000
C. ATTENTION:
D. TELEPHONE:

10 A. NAME AND ADDRESS OF RECEIVER: Nuc., Inc., Somewhere, US 54321
B. LICENSE NO. SUB-000
C. ATTENTION:
D. TELEPHONE:

11. NO. OF DATA LINES (20-21): 2
12. NATURE OF TRANSACTION (22): N
13 A. SHIPPED FOR ACCOUNT OF: SAME
B. RIS (23-26)
14 A. SHIPPED TO ACCOUNT OF: SAME
B. RIS (27-30)

NO.	DISTRIBUTION OF COPIES
1	XXX
2	QFA
3	File
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15. TRANSFER AUTHORITY CONTRACT, NRC GRANT, OR ORDER NUMBER (31-50)

16. EXPORT OR IMPORT TRANSFERS: A. LICENSE NO. (32-33)
B. U.S. PORT EXIT/ENTRY (33-35)

17. MATERIAL TYPE AND DESCRIPTION

18. TRANSPORTATION PROFILE

A. TRIP SEQ.	B. CARRIER IDENTIFICATION	C. TRANSFER POINT	19. PACKAGE IDENTIFICATION A. MODEL NO.	B. NUMBER
1	3(36-39)	3(40-44)	4(22-25)	4(26-29)
2	3(45-48)	3(49-53)	4(29-32)	4(33-36)
3	3(54-57)	3(58-62)	4(36-39)	4(40-42)
4	3(63-66)	3(67-71)	4(43-46)	4(47-49)
5	3(72-75)		4(50-53)	4(54-58)

22. TOTAL GROSS WEIGHT 4(57-66)

20. ACTION DATE

	MONTH 1(70-71)	DAY 1(72-73)	YEAR 1(74-77)
A. SHIPMENT			
B. SHIPPER'S CORRECTION	11	15	82
C. RECEIPT			
D. RECEIVER'S MEASUREMENT			
E. RECEIVER'S CORRECTION			

23. TOTAL VOLUME (Where Transferring only) 4(67-75)

21. MISCELLANEOUS
A. CONCISE NOTE ATTACHED YES NO X
C. CONCISE NOTE ATTACHED YES NO X

24. SHIPPER'S DATA

LINE NO. 2-5 (00-24) A	TYPE OF TRANSACTION 2(22-23) B	IDENTIFICATION (BATCH NAME) 2(24-29) C	NO. OF ITEMS 2(30-33) D	PROJECT NUMBER 2(34-53) E	MATERIAL TYPE 2(54-55) F	COMPANY/FACILITY CODE 2(56-57) G	PROD. CODE 2(58) H	OWNER CODE 2(59) I	COUNTRY CONTROL NUMBER 2(60-69) J	KEY MEAS POINT 2(70-73) K	MEAS. IDENT 1 1 BADGE 2(77)	2 OWN 2(78-79)	3 METHOD 2(80)	GROSS WEIGHT M	NET WEIGHT N	ELEMENT WEIGHT 5(15-19) O.	ELEMENT LIMIT OF ERROR 5(56-58) P.	WEIGHT % ISOTOPE 5(59-64) Q	ISOTOPE WEIGHT 5(65-75) R	ISOTOPE LIMIT OF ERROR 5(76-80) S
01		Fab Fuel Ele	-7		20	291		J	USUS0000					104	000	-9220	-4	2.0110	-65	-1
02		Fab Fuel Ele	7		20	291		J	CAUS0000					201	000	9220	4	2.0110	65	1

24. SHIPPER'S DATA (See instructions [NUREG/BR-0006] for provisions regarding confidentiality)
T. SIGNATURE OF AUTHORIZED OFFICIAL AND DATE SIGNED: James R. Doe 11/15/82

25. RECEIVER'S DATA (See instructions [NUREG/BR-0006] for provisions regarding confidentiality)
T. SIGNATURE OF AUTHORIZED OFFICIAL AND DATE SIGNED

25. RECEIVER'S DATA

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.

PAGE OF PAGES

DOE/NRC FORM 741 (4-1999) Previous editions are obsolete
MANDATORY DATA COLLECTION
AUTHORIZED BY 10 CFR 30, 40, 50, 70, 75, 150, Public Laws 83-703, 93-438, 95-91

EXAMPLE 4: CORRECTION 3 (receiver adjusting line 02 of the initial report)

U.S. DEPARTMENT OF ENERGY AND U.S. NUCLEAR REGULATORY COMMISSION

NUCLEAR MATERIAL TRANSACTION REPORT

APPROVED BY OMB: NO. 3150-0003 EXPIRES: 04/30/2002

Estimated burden per response to comply with this mandatory collection request: 45 minutes. This information is required for IAEA accounting reports that show changes in inventory of nuclear material. Send comments regarding burden estimate to the Records Management Branch (T-6 E6), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by internet e-mail to bjs1@nrc.gov, and to the Desk Officer, Office of Information and Regulatory Affairs, NEOB-10202, (3150-0003), 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.

1. SHIPPER'S RIS (1-4)	2. RECEIVER'S RIS (5-8)	3. TRANSACTION NO. (9-14)	4. CORRECTION NO. (15)	5. PROCESSING CODE (16)		6. RESERVED (17)	7. ACTION CODE (18)		8. DATA CODE (19)	DOCUMENTATION (Only if document is classified SECRET)
XXX	YYY	2	3	SHIPPER	RECEIVER A		SHIPPER	RECEIVER D		PAGE OF PAGES COPY OF COPIES, SERIES

9 A. NAME AND ADDRESS OF SHIPPER — B. LICENSE NO. SUB-000
Nuclear Facility
Anywhere, US 12345
C. ATTENTION:
D. TELEPHONE:

10 A. NAME AND ADDRESS OF RECEIVER — B. LICENSE NO. SUB -001
Nuc., Inc.
Somewhere, US 54321
C. ATTENTION:
D. TELEPHONE:

11. NO. OF DATA LINES (120-231): 2
12. NATURE OF TRANSACTION (122): N
13 A. SHIPPED FOR ACCOUNT OF: SAME — B. RIS (232-26)
14 A. SHIPPED TO ACCOUNT OF: SAME — B. RIS (27-30)

NO.	DISTRIBUTION OF COPIES
1	YYY
2	OFA
3	File
4	
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15. TRANSFER AUTHORITY-CONTRACT, NRC DRAFT, OR ORDER NUMBER (134-50)
16. EXPORT OR IMPORT TRANSFERS: A. LICENSE NO. (232-51) B. U.S. PORT EXIT/ENTRY (237-25)
17. MATERIAL TYPE AND DESCRIPTION
18. TRANSPORTATION PROFILE
19. PACKAGE IDENTIFICATION
20. ACTION DATE

A. TRIP SEQ.	B. CARRIER IDENTIFICATION	C. TRANSFER POINT	A. MODEL ID.	B. NUMBER		MONTH (70-71)	DAY (72-73)	YEAR (74-77)
1	(136-39)	(140-44)	(122-25)	(128-28)	A. SHIPMENT			
2	(145-48)	(149-53)	(129-33)	(133-36)	B. SHIPPER'S CORRECTION			
3	(154-57)	(158-62)	(138-39)	(140-42)	C. RECEIPT			
4	(163-66)	(167-71)	(143-46)	(147-49)	D. RECEIVER'S MEASUREMENT			
5	(172-75)		(150-53)	(154-56)	E. RECEIVER'S CORRECTION	12	31	82

21. MISCELLANEOUS
B. CONCISE NOTE ATTACHED YES NO
C. CONCISE NOTE ATTACHED YES NO
22. TOTAL GROSS WEIGHT (457-66)
23. TOTAL VOLUME (Waste Transfers only) (187-75)

24. SHIPPER'S DATA

LINE NO. (20-21) A	TYPE OF INV. CHANGE (122-23) B	IDENTIFICATION (BATCH NAME) (124-35) C	NO. OF ITEMS (146-49) D	PRODUCT NUMBER (156-63) E	MATL FORM TYPE (254-55) F	COMP/ FACILITY CODE (256-59) G	PROD CODE (260) H	OWNER CODE (261) I	COUNTRY CONTROL NUMBER (262-65) J	KEY MEAS POINT (270-71) P	MEAS IDENT 1. BASIS (272)	2. QUAL (273-74)	3. METHOD (275)	GROSS WEIGHT M	NET WEIGHT N	ELEMENT WEIGHT (343-53) O	ELEMENT LIMIT OF ERROR (354-58) P	WEIGHT % ISOTOPE (459-63) Q	ISOTOPE WEIGHT (564-73) R	ISOTOPE LIMIT OF ERROR (574-82) S

25. RECEIVER'S DATA

LINE NO. (20-21) A	TYPE OF INV. CHANGE (122-23) B	IDENTIFICATION (BATCH NAME) (124-35) C	NO. OF ITEMS (146-49) D	PRODUCT NUMBER (156-63) E	MATL FORM TYPE (254-55) F	COMP/ FACILITY CODE (256-59) G	PROD CODE (260) H	OWNER CODE (261) I	COUNTRY CONTROL NUMBER (262-65) J	KEY MEAS POINT (270-71) P	MEAS IDENT 1. BASIS (272)	2. QUAL (273-74)	3. METHOD (275)	GROSS WEIGHT M	NET WEIGHT N	ELEMENT WEIGHT (343-53) O	ELEMENT LIMIT OF ERROR (354-58) P	WEIGHT % ISOTOPE (459-63) Q	ISOTOPE WEIGHT (564-73) R	ISOTOPE LIMIT OF ERROR (574-82) S
01		Fab Fuel Ele	-7		20	291		J	USUS0000					002	000	-5,429	-3	1,7080	-93	-1
02		Fab Fuel Ele	7		20	291		J	USUS0000					301	000	5,429	3	1,7180	93	1

24. SHIPPER'S DATA (See instructions (NUREG/BR-0006) for provisions regarding confidentiality) — T. SIGNATURE OF AUTHORIZED OFFICIAL AND DATE SIGNED

25. RECEIVER'S DATA (See instructions (NUREG/BR-0006) for provisions regarding confidentiality) — T. SIGNATURE OF AUTHORIZED OFFICIAL AND DATE SIGNED: Lewis R. Dot 12/31/82

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.

PAGE OF PAGES

DOE/NRC FORM 741 EXAMPLE 5: INITIAL REPORT (Action Code M)
(4-1999) Previous editions are obsolete
MANDATORY DATA COLLECTION
AUTHORIZED BY 10 CFR 30, 40, 50, 70, 75, 150, Public Laws 83-703, 93-438, 95-91

U.S. DEPARTMENT OF ENERGY AND U.S. NUCLEAR REGULATORY COMMISSION

NUCLEAR MATERIAL TRANSACTION REPORT

APPROVED BY OMB: NO. 3150-0003 EXPIRES: 04/30/2002
Estimated burden per response to comply with this mandatory collection request: 45 minutes. This information is required for IAEA accounting reports that show changes in inventory of nuclear material. Send comments regarding burden estimate to the Records Management Branch (T-6 E6), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by internet e-mail to bjs1@nrc.gov, and to the Desk Officer, Office of Information and Regulatory Affairs, NEOB-10202, (3150-0003), 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.

1. SHIPPER'S RIS (1-4)	2. RECEIVER'S RIS (5-8)	3. TRANSACTION NO. (9-14)	4. CORRECTION NO. (15)	5. PROCESSING CODE (16)	6. RESERVED (17)	7. ACTION CODE (18)	8. DATA CODE (19)	DOCUMENTATION (Only if document is classified SECRET)
XXX	XXX	1		SHIPPER A / RECEIVER		SHIPPER M / RECEIVER		PAGE OF PAGES COPY OF COPIES, SERIES

9.A. NAME AND ADDRESS OF SHIPPER — 8. LICENSE NO. SUB-000

Nuclear Facility
Anywhere, US 12345

C. ATTENTION:
D. TELEPHONE:

10.A. NAME AND ADDRESS OF RECEIVER — 8. LICENSE NO. SUB-000

SAME

C. ATTENTION:
D. TELEPHONE:

11. NO. OF DATA LINES (1-20) 06 — 12. NATURE OF TRANSACTION (1-22)

13.A. SHIPPED FOR ACCOUNT OF — B. RIS (1-23-26)
14.A. SHIPPED TO ACCOUNT OF — B. RIS (1-27-30)

15. TRANSFER AUTHORITY CONTRACT, NRC DRAFT, OR ORDER NUMBER (1-34-50)

16. EXPORT OR IMPORT TRANSFERS: A. LICENSE NO. (1-22-31)
B. U.S. PORT EXIT/ENTRY (32-35)

17. MATERIAL TYPE AND DESCRIPTION

Word Description
Example 5

18. TRANSPORTATION PROFILE

A. TRIP SEQ.	B. CARRIER IDENTIFICATION	C. TRANSFER POINT	A. MODEL NO.	B. NUMBER
1	3(36-39)	3(40-44)	4(22-25)	8(26-28)
2	3(45-48)	3(49-53)	4(29-32)	4(33-36)
3	3(54-57)	3(58-62)	4(36-39)	4(40-42)
4	3(63-66)	3(67-71)	4(43-46)	4(47-49)
5	3(72-75)		4(50-53)	4(54-56)

19. PACKAGE IDENTIFICATION — 20. ACTION DATE

	MONTH 1(70-71)	DAY 1(72-73)	YEAR 1(74-77)
A. SHIPMENT	09	30	87
B. SHIPPER'S CORRECTION			
C. RECEIPT			
D. RECEIVER'S MEASUREMENT			
E. RECEIVER'S CORRECTION			

21. MISCELLANEOUS
B. CONCISE NOTE ATTACHED YES ___ NO X
C. CONCISE NOTE ATTACHED YES ___ NO X

22. TOTAL GROSS WEIGHT 4(57-66)
23. TOTAL VOLUME (Waste Transfers only) 4(67-75)

DISTRIBUTION OF COPIES	
1	XXX
2	QFA
3	File
4	
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24. SHIPPER'S DATA

LINE NO. 3-5 (20-24) A	TYPE OF INV. CHANGE (25-27) B	IDENTIFICATION (BATCH NAME) (28-39) C	NO. OF ITEMS (40-43) D	PROJECT NUMBER (44-53) E	MATERIAL TYPE (54-55) F	COMP. FACILITY CODE (56-59) G	PROD. CODE (60) H	OWNER CODE (61) I	COUNTRY CONTROL NUMBER (62-68) J	KEY MEAS. POINT (69-71) K	MEAS. IDENT. L: 1 BASIS (72)	2 COMP. (73-74)	3 METHOD (75)	GROSS WEIGHT M	NET WEIGHT N	ELEMENT WEIGHT (80-87) O	ELEMENT LIMIT OF ERROR (88-95) P	ENRICHMENT (ISOTOPE) (96-101) Q	ISOTOPE WEIGHT (102-109) R	ISOTOPE LIMIT OF ERROR (110-117) S
01	TN	Decay			50	309		J	UKUSUS00							170		28.25	170	
02	TN	Decay			50	309		J	USFRUS00							419		28.25	419	
03	TN	Decay			50	309		J	CAUSUS00							409		28.25	409	

24. SHIPPER'S DATA (See instructions (NUREG/BR-0006) for provisions regarding confidentiality)
T. SIGNATURE OF AUTHORIZED OFFICIAL AND DATE SIGNED

25. RECEIVER'S DATA (See instructions (NUREG/BR-0006) for provisions regarding confidentiality)
T. SIGNATURE OF AUTHORIZED OFFICIAL AND DATE SIGNED
Lewis R. Doe 09/30/87

25. RECEIVER'S DATA

04	NP	Production			50	309		J	USFRUS00							36,000		28.25	22,000	
05	NP	Production			50	309		J	USUSUS00							70,000		28.25	63,000	
06	MF	Inventory Diff			20			J	USUS0000							-10			10	

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.

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DOE/NRC FORM 741 EXAMPLE 6: CORRECTION 1 (Action Code M)
(4-1999) Previous editions are obsolete
MANDATORY DATA COLLECTION
AUTHORIZED BY 10 CFR 30, 40, 50, 70, 75, 150, Public Laws 83-703, 93-438, 95-91

U.S. DEPARTMENT OF ENERGY AND U.S. NUCLEAR REGULATORY COMMISSION

NUCLEAR MATERIAL TRANSACTION REPORT

APPROVED BY OMB: NO. 3150-0003 EXPIRES: 04/30/2002
Estimated burden per response to comply with this mandatory collection request: 45 minutes. This information is required for IAEA accounting reports that show changes in inventory of nuclear material. Send comments regarding burden estimate to the Records Management Branch (T-6 E6), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by internet e-mail to bjs1@nrc.gov, and to the Desk Officer, Office of Information and Regulatory Affairs, NEOB-10202, (3150-0003), 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.

1. SHIPPER'S RIS (1-4)	2. RECEIVER'S RIS (5-8)	3. TRANSACTION NO. (9-14)	4. CORRECTION NO. (15)	5. PROCESSING CODE (16)	6. RESERVED (17)	7. ACTION CODE (18)	8. DATA CODE (19)	DOCUMENTATION (Only if document is classified SECRET)
XXX	XXX	1	1	SHIPPER A RECEIVER		SHIPPER M RECEIVER M		PAGE OF PAGES COPY OF COPIES, SERIES

9.A. NAME AND ADDRESS OF SHIPPER: Nuclear Facility
9.B. LICENSE NO.: SUB-000
C. ATTENTION:
D. TELEPHONE: (100) 555-5555

10.A. NAME AND ADDRESS OF RECEIVER: SAME
10.B. LICENSE NO.: SUB-000
C. ATTENTION:
D. TELEPHONE:

11. NO. OF DATA LINES (20-21): 7
12. NATURE OF TRANSACTION (22):
13.A. SHIPPED FOR ACCOUNT OF:
13.B. RIS (23-26):
14.A. SHIPPED TO ACCOUNT OF:
14.B. RIS (27-30):

15. TRANSFER AUTHORITY CONTRACT, IMI DRAFT, OR ORDER NUMBER (31-50):
16. EXPORT OR IMPORT TRANSFERS: A. LICENSE NO. (32-35)
B. U.S. PORT EXIT/ENTRY (33-35)

17. MATERIAL TYPE AND DESCRIPTION: Example 6

18. TRANSPORTATION PROFILE

A. TRIP SEG.	B. CARRIER IDENTIFICATION	C. TRANSFER POINT	A. MODEL ID.	B. NUMBER
1	3(36-38)	3(40-44)	4(22-26)	4(36-39)
2	3(45-48)	3(49-53)	4(29-32)	4(33-35)
3	3(54-57)	3(58-62)	4(36-39)	4(40-42)
4	3(63-66)	3(67-71)	4(43-48)	4(47-49)
5	3(72-75)		4(50-53)	4(54-66)

19. PACKAGE IDENTIFICATION

20. ACTION DATE

	MONTH 1(70-71)	DAY 1(72-73)	YEAR 1(74-77)
A. SHIPMENT			
B. SHIPPER'S CORRECTION	03	31	88
C. RECEIPT			
D. RECEIVER'S MEASUREMENT			
E. RECEIVER'S CORRECTION	03	31	88

21. MISCELLANEOUS
B. CONCISE NOTE ATTACHED YES NO X
C. CONCISE NOTE ATTACHED YES NO X

22. TOTAL GROSS WEIGHT (45-56):
23. TOTAL VOLUME (Waste Transfers only) (57-75):

NO.	DISTRIBUTION OF COPIES
1	XXX
2	QFA
3	File
4	
5	
6	
7	
8	
9	

24. SHIPPER'S DATA

LINE NO. 1-5 (79-81) A	TYPE OF INV. CHANGE (82-83) B	IDENTIFICATION (BATCH NAME) (84-95) C	NO. OF ITEMS (96-98) D	PACKAGE NUMBER (99-103) E	MATERIAL TYPE (104-105) F	COMP. FACILITY CODE (106-109) G	PROD. CODE (110) H	OWNER CODE (111) I	COUNTRY CONTROL NUMBER (112-119) J	KEY MEAS. POINT (120-121) K	MEAS. IDENT. 1 (122)	2 (123-124)	3 METHOD (125)	GROSS WEIGHT M	NET WEIGHT N	ELEMENT WEIGHT (133-139) O	ELEMENT LIMIT OF ERROR (140-146) P	WEIGHT % ISOTOPE (147-151) Q	ISOTOPE WEIGHT (152-159) R	ISOTOPE LIMIT OF ERROR (160-167) S
01	TN	Decay			50	309		J	CAUSUS00					003		-409		28.25	-409	
02	TN	Decay			50	309		J	USUSUS00					101		424		28.25	424	

24. SHIPPER'S DATA (See instructions (NUREG/BR-0006) for provisions regarding confidentiality)
T. SIGNATURE OF AUTHORIZED OFFICIAL AND DATE SIGNED

25. RECEIVER'S DATA (See instructions (NUREG/BR-0006) for provisions regarding confidentiality)
T. SIGNATURE OF AUTHORIZED OFFICIAL AND DATE SIGNED: 03/31/88

25. RECEIVER'S DATA

03	NR	Production			50	309		J	USFRUS00					004		-36,000		28.25	-22,000	
04	NR	Production			50	309		J	USUSUS00					103		29,000		28.25	18,0000	
05	MR	Inventory Diff			20			J	USUS0000					006		+10			-10	
06	MR	Inventory Diff			20			J	USUS0000					105		-09			09	
07	NR	Production			50	309		J	USFRUS00					000		7,000		28.25	4,000	

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 741 EXAMPLE 7
(4-1999) Previous editions are obsolete
MANDATORY DATA COLLECTION
AUTHORIZED BY 10 CFR 30, 40, 50, 70, 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. 3150-0003 EXPIRES: 04/30/2002
Estimated burden per response to comply with this mandatory collection request: 45 minutes. This information is required for IAEA accounting reports that show changes in inventory of nuclear material. Send comments regarding burden estimate to the Records Management Branch (T-6 E6), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by internet e-mail to bjs1@nrc.gov, and to the Desk Officer, Office of Information and Regulatory Affairs, NEOB-10202, (3150-0003), 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.

NUCLEAR MATERIAL TRANSACTION REPORT

1. SHIPPER'S RIS (1-4)	2. RECEIVER'S RIS (5-8)	3. TRANSACTION NO. (9-14)	4. CORRECTION NO. (15)	5. PROCESSING CODE (16)	6. RESERVED (17)	7. ACTION CODE (18)	8. DATA CODE (19)	DOCUMENTATION (Only if document is classified SECRET)
XXX	RYYY	200		SHIPPER A / RECEIVER		SHIPPER A / RECEIVER		PAGE OF PAGES COPY OF COPIES, SERIES

9.A. NAME AND ADDRESS OF SHIPPER — B. LICENSE NO. SUB-000

Nuclear Facility
Somewhere, US 12345

C. ATTENTION:
D. TELEPHONE:

10.A. NAME AND ADDRESS OF RECEIVER — B. LICENSE NO.

Nuc. Overseas
Overthere, UK

C. ATTENTION:
D. TELEPHONE:

11. NO. OF DATA LINES (20-21): 1
12. NATURE OF TRANSACTION (31-32):
13.A. SHIPPED FOR ACCOUNT OF — B. RIS (33-36):
14.A. SHIPPED TO ACCOUNT OF — B. RIS (37-40):

NO.	DISTRIBUTION OF COPIES
1	RYYY
2	QFA
3	File
4	
5	
6	
7	
8	
9	

15. TRANSFER AUTHORITY-CONTRACT, RM DRAFT, OR ORDER NUMBER (41-50):
16. EXPORT OR IMPORT TRANSFERS: A. LICENSE NO. (51-60): XSNM-BB1
B. U.S. PORT EXIT/ENTRY (61-65): 3208

17. MATERIAL TYPE AND DESCRIPTION: N

18. TRANSPORTATION PROFILE

A. TRIP SEQ.	B. CARRIER IDENTIFICATION	C. TRANSFER POINT	19. PACKAGE IDENTIFICATION A. MODEL/ID	B. NUMBER	20. ACTION DATE	MONTH 1(70-71)	DAY 1(72-73)	YEAR 1(74-77)
1	3(26-39)	3(40-44)	4(22-25)	4(26-28)	A. SHIPMENT	05	30	1999
2	3(45-48)	3(49-53)	4(29-32)	4(33-35)	B. SHIPPER'S CORRECTION			
3	3(54-57)	3(58-62)	4(36-39)	4(40-42)	C. RECEIPT			
4	3(63-66)	3(67-71)	4(43-46)	4(47-49)	D. RECEIVER'S MEASUREMENT			
5	3(72-75)		4(50-53)	4(54-56)	E. RECEIVER'S CORRECTION			

21. MISCELLANEOUS
B. CONCISE NOTE ATTACHED YES ☐ NO ☒
C. CONCISE NOTE ATTACHED YES ☐ NO ☐

22. TOTAL GROSS WEIGHT (4-57-66): 22
23. TOTAL VOLUME (Waste Transfers only) 4(67-75):

24. SHIPPER'S DATA

LINE NO. 2-5 (20-23) A.	TYPE OF INV CHANGE (202-23) B.	IDENTIFICATION (BATCH NAME) 3(28-35) C	NO. OF ITEMS 2(40-43) D.	PROJECT NUMBER 3(44-53) E	MATL TYPE 3(54-55) F	COMP. FACILITY CODE 3(56-59) G	PADD CODE 2(60) H	OWNER CODE 2(61) I	COUNTRY CONTROL NUMBER 3(62-65) J	KEY MEAS POINT 2(66-70) K	MEAS IDENT 1 1 BASIS (71)	2 DNP (72-74)	3 METHOD (75)	GROSS WEIGHT M	NET WEIGHT N	ELEMENT WEIGHT 5(53-57) O	ELEMENT LIMIT OF ERROR 5(58-62) P	WEIGHT % ISOTOPE 5(59-63) Q	ISOTOPE WEIGHT 5(64-73) R	ISOTOPE LIMIT OF ERROR 5(74-80) S
01		Misc. MTL	5		EG	291		J	USUS0000					15	11	5,000	3	1.7080	85	1

24. SHIPPER'S DATA (See Instructions (NUREG/BR-0006) for provisions regarding confidentiality)
T. SIGNATURE OF AUTHORIZED OFFICIAL AND DATE SIGNED: Jane Smith 05/30/1999

25. RECEIVER'S DATA (See Instructions (NUREG/BR-0006) for provisions regarding confidentiality)
T. SIGNATURE OF AUTHORIZED OFFICIAL AND DATE SIGNED

25. RECEIVER'S DATA

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.

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DOE/NRC FORM 741
(4-1999) Previous editions are obsolete
MANDATORY DATA COLLECTION
AUTHORIZED BY 10 CFR 30, 40, 50, 70, 75, 150, Public Laws 83-703, 93-438, 95-91

EXAMPLE 8

U.S. DEPARTMENT OF ENERGY
AND
U.S. NUCLEAR REGULATORY COMMISSION

NUCLEAR MATERIAL TRANSACTION REPORT

APPROVED BY OMB: NO. 3150-0003 EXPIRES: 04/30/2002

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1. SHIPPER'S RIS (1-4)	2. RECEIVER'S RIS (5-8)	3. TRANSACTION NO. (9-14)	4. CORRECTION NO. (15)	5. PROCESSING CODE (16)	6. RESERVED (17)	7. ACTION CODE (18)	8. DATA CODE (19)	DOCUMENTATION (Only if document is classified SECRET)
XXX	RYYY	200	1	SHIPPER A / RECEIVER		SHIPPER C / RECEIVER		PAGE OF PAGES COPY OF COPIES, SERIES

9 A. NAME AND ADDRESS OF SHIPPER — B. LICENSE NO. SUB-000
Nuclear Facility
Somewhere, US 12345
C. ATTENTION:
D. TELEPHONE:

10 A. NAME AND ADDRESS OF RECEIVER — B. LICENSE NO.
Nuc. Overseas
Overthere, UK
C. ATTENTION:
D. TELEPHONE:

11. NO. OF DATA LINES 1(20-21): 1
12. NATURE OF TRANSACTION 1(22):
13 A. SHIPPED FOR ACCOUNT OF — B. RIS 1(23-26)
14 A. SHIPPED TO ACCOUNT OF — B. RIS 1(27-30)

NO.	DISTRIBUTION OF COPIES
1	RYYY
2	QFA
3	File
4	
5	
6	
7	
8	
9	

15. TRANSFER AUTHORITY CONTRACT, NW DRAFT, OR ORDER NUMBER 1(34-50)
16. EXPORT OR IMPORT TRANSFERS: A. LICENSE NO. 3(32-35) XSNM-BB1
B. U.S. PORT EXIT/ENTRY 3(32-35) 3208
17. MATERIAL TYPE AND DESCRIPTION
N
18. TRANSPORTATION PROFILE
19. PACKAGE IDENTIFICATION
20. ACTION DATE

A. TRIP SEG.	B. CARRIER IDENTIFICATION	C. TRANSFER POINT	A. MODEL NO.	B. NUMBER		MONTH 1(70-71)	DAY 1(72-73)	YEAR 1(74-77)
1	3(38-39)	3(40-44)	4(27-29)	4(28-28)	A. SHIPMENT			
2	3(45-48)	3(49-53)	4(29-37)	4(33-35)	B. SHIPPER'S CORRECTION	05	30	1999
3	3(54-57)	3(58-62)	4(36-39)	4(40-42)	C. RECEIPT			
4	3(63-66)	3(67-71)	4(43-46)	4(47-49)	D. RECEIVER'S MEASUREMENT			
5	3(72-75)		4(50-53)	4(54-56)	E. RECEIVER'S CORRECTION			

21. MISCELLANEOUS
B. CONCISE NOTE ATTACHED YES ☐ NO ☒
C. CONCISE NOTE ATTACHED YES ☐ NO ☐
22. TOTAL GROSS WEIGHT 4(57-68)
23. TOTAL VOLUME (Waste Transfers only) 4(69-75)

24. SHIPPER'S DATA

LINE NO. 2(1-19) A	TYPE OF INV. CHANGE 2(22-23) B	IDENTIFICATION (BATCH NAME) 2(24-35) C	NO. OF ITEMS 2(36-43) D	PRODUCT NUMBER 2(44-53) E	MATL TYPE 2(54-55) F	COMP. FACILITY CODE 2(56-58) G	PROC CODE 2(60) H	OWNER CODE 2(61) I	COUNTRY CONTROL NUMBER 2(62-69) J	KEY MEAS POINT 2(70-71) K	MEAS IDENT. L: 1 GAUGE 2(72)	2 DWT 2(73-74)	3 METHOD 2(75)	GROSS WEIGHT M	NET WEIGHT N	ELEMENT WEIGHT 3(42-53) O	ELEMENT LIMIT OF ERROR 3(54-56) P	WEIGHT % ISOTOPE 3(59-66) Q	ISOTOPE WEIGHT 3(67-75) R	ISOTOPE LIMIT OF ERROR 3(78-80) S
01		Misc. MTL	-5		EG	291		J	USUS0000					001		-5.000	-3	1.7080	-85	-1

24. SHIPPER'S DATA (See instructions (NUREG/BR-0006) for provisions regarding confidentiality)
T. SIGNATURE OF AUTHORIZED OFFICIAL AND DATE SIGNED
Jane Smith 05/30/1999

25. RECEIVER'S DATA (See instructions (NUREG/BR-0006) for provisions regarding confidentiality)
T. SIGNATURE OF AUTHORIZED OFFICIAL AND DATE SIGNED

25. RECEIVER'S DATA

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MANDATORY DATA COLLECTION
AUTHORIZED BY 10 CFR 30, 40, 50, 70, 75, 150, Public Laws 83-703, 93-438, 95-91

U.S. DEPARTMENT OF ENERGY
AND
U.S. NUCLEAR REGULATORY COMMISSION

NUCLEAR MATERIAL TRANSACTION REPORT

APPROVED BY OMB: NO. 3150-0003 EXPIRES: 04/30/2002

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1. SHIPPER'S RIS (1-4)	2. RECEIVER'S RIS (5-8)	3. TRANSACTION NO. (9-14)	4. CORRECTION NO. (15)	5. PROCESSING CODE (16)	6. RESERVED (17)	7. ACTION CODE (18)	8. DATA CODE (19)	DOCUMENTATION (Only if document is classified SECRET)
XXX	RYYY	200	2	SHIPPER A / RECEIVER		SHIPPER C / RECEIVER		PAGE OF PAGES COPY OF COPIES, SERIES

9 A. NAME AND ADDRESS OF SHIPPER — 6. LICENSE NO. SUB-000

Nuclear Facility
Somewhere, US 12345

C. ATTENTION
D. TELEPHONE

10 A. NAME AND ADDRESS OF RECEIVER — B. LICENSE NO.

Nuc. Overseas
Overthere, UK

C. ATTENTION
D. TELEPHONE

11. NO. OF DATA LINES (20-21)

12. NATURE OF TRANSACTION (22)

13 A. SHIPPED FOR ACCOUNT OF — B. RIS (23-26)

14 A. SHIPPED TO ACCOUNT OF — B. RIS (27-30)

15. TRANSFER AUTHORITY CONTRACT, NM DRAFT, OR ORDER NUMBER (31-50)

16. EXPORT OR IMPORT TRANSFERS. A. LICENSE NO. (32-34) XSNM-A01

B. U.S. PORT EXIT/ENTRY (35-37) 3208

17. MATERIAL TYPE AND DESCRIPTION

N

18. TRANSPORTATION PROFILE

A. TRIP SEG	B. CARRIER IDENTIFICATION	C. TRANSFER POINT	A. MODE/ID.	B. NUMBER
1	3(38-39)	3(40-44)	4(22-25)	4(26-28)
2	3(45-48)	3(49-53)	4(29-32)	4(33-35)
3	3(54-57)	3(58-62)	4(36-39)	4(40-42)
4	3(63-66)	3(67-71)	4(43-46)	4(47-49)
5	3(72-75)		4(50-53)	4(54-56)

19. PACKAGE IDENTIFICATION

20. ACTION DATE

	MONTH 1(70-71)	DAY 1(72-73)	YEAR 1(74-77)
A. SHIPMENT			
B. SHIPPER'S CORRECTION	05	30	1999
C. RECEIPT			
D. RECEIVER'S MEASUREMENT			
E. RECEIVER'S CORRECTION			

21. MISCELLANEOUS

B. CONCISE NOTE ATTACHED YES NO X

C. CONCISE NOTE ATTACHED YES NO

22. TOTAL GROSS WEIGHT 4(57-66)

23. TOTAL VOLUME (Waste Transfers only) 4(67-75)

NO.	DISTRIBUTION OF COPIES
1	RYYY
2	QFA
3	File
4	
5	
6	
7	
8	
9	

24. SHIPPER'S DATA

LINE NO. 2-5 (20-21) A	TYPE OF INV CHANGE 2(22-23) B	IDENTIFICATION (BATCH NAME) 2(24-29) C	NO. OF ITEMS 2(30-33) D	PROJECT NUMBER 2(34-53) E	MATERIAL TYPE 2(54-55) F	CONT. FACILITY CODE 2(56-57) G	PROD CODE 2-(58) H	ORDER CODE 2-(59) I	COUNTRY CONTROL NUMBER 2(60-65) J	KEY MEAS POINT 3(10-15) K	MEAS IDENT. L 1 BASIS 2(72)	2 DMP 2(73-74)	3 METHOD 2(75)	GROSS WEIGHT M	NET WEIGHT N	ELEMENT WEIGHT 5(43-52) O	ELEMENT LIMIT OF ERROR 5(53-58) P	WEIGHT % ISOTOPE 5(59-68) Q	ISOTOPE WEIGHT 5(69-78) R	ISOTOPE LIMIT OF ERROR 5(79-80) S
01		Misc. MTL	5		EG	291		J	USUS0000					101		5,000	3	1,7080	85	1

24. SHIPPER'S DATA (See instructions [NUREG/BR-0006] for provisions regarding confidentiality) — T. SIGNATURE OF AUTHORIZED OFFICIAL AND DATE SIGNED: Jane Smith 05/30/1999

25. RECEIVER'S DATA (See instructions [NUREG/BR-0006] for provisions regarding confidentiality) — T. SIGNATURE OF AUTHORIZED OFFICIAL AND DATE SIGNED

25. RECEIVER'S DATA

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APPENDIX VI
DEFINITIONS

APPENDIX VI
DEFINITIONS

1. Accountability. The determination of, and current record maintenance of SNM and source material quantities associated with transfers, measured discards, inventories, and inventory differences that might result from theft, diversion or other unidentified loss mechanisms.

2. Agreement State. Any State of the U.S. with which NRC, or its predecessor, AEC, has entered into an agreement under section 274b of the Atomic Energy Act of 1954, as amended.

3. Concise Note. Additional nuclear materials transaction, material balance, or inventory data supplied to the International Atomic Energy Agency (IAEA), in free text format, by facilities selected under the provisions of the Agreement between the United States of America and the IAEA for the Application of Safeguards in the U.S./IAEA Safeguards Agreement, and by facilities engaged in the import and/or export of nuclear materials.

4. Country Control Number (CCN). Eight-character coded identifier used in nuclear materials documentation and reporting to indicate the country of origin of nuclear materials; the country providing isotopic separation services that originally produced the depleted or enriched uranium; the country in which reactor products were produced; and the country or international organization with any special safeguards conditions attached to the materials' use or transfer.

5. International Nuclear Materials Tracking System (INMTS). A data base and information support system used to manage information on the quantity and location of U.S.-supplied nuclear materials in foreign countries.

6. Inventory Difference (ID). The arithmetic difference between a book inventory and the corresponding physical inventory that closes the material balance period. It is calculated by subtracting the ending inventory (EI) and removals from inventory (R) from the beginning inventory (BI) and additions to inventory (A) during that period between physical inventories. Mathematically this can be expressed as:

   $$ID=(BI+A-R)-EI$$

   where (BI+A-R) is the book inventory.

7. Inventory Reconciliation. The adjustment of the book record quantity of both element and fissile isotopes to reflect the results of a physical inventory. In a broad sense, inventory reconciliation also includes the activities of calculating: (1) the ID for the material balance period in question, (2) the uncertainty value associated with the ID, (3) the active inventory for the period, and (4) any bias adjustment and/or prior period adjustment associated with the ID value.

8. Material Balance. The determination of an inventory difference.

9. Material Balance Period. The time span to which a material or physical inventory pertains.

10. Material Type Code. Number code for identifying basic material type with respect to SNM, and source material. These codes are used by NMMSS for tracking U.S.-owned and U.S.-possessed materials worldwide.

11. Nuclear Materials Management and Safeguards System (NMMSS). The national database and information system for nuclear materials controlled by the U.S. Government, created to support national safeguards and management objectives in domestic and international programs. The system stores data on nuclear material transactions and inventories, and produces a wide range of printed reports for use by DOE and NRC and those that they regulate. The system is used to satisfy the nuclear materials information requirements of agreements between the U.S. and foreign entities. In addition, the system provides the reporting interface between facilities selected under the provisions of the U. S.-IAEA Safeguards Agreement. The system uses a centralized computer data base linked via direct data communication lines and the Secure Information Management and Exchange Network (SIMEX) to a number of facilities, DOE offices, and NRC offices in the U.S. Information is also provided to other Federal agencies, as required.

12. Physical Inventory. A determination by physical means (usually visual) on a measurement of quantity of SNM on hand at a given time. The methods of physical inventory and associated measurements will vary, depending on the material to be inventoried and the process involved. A book inventory between physical inventory takings can be determined based on the physical inventory quantity from the prior period together with all subsequent inventory changes associated with the determination of that book inventory. The primary purpose of a physical inventory is to confirm the absence of (or to detect) a loss, theft or diversion of SNM.

13. Reporting Identification Symbol (RIS). A unique combination of three or four letters which is assigned to each reporting organization by the Office of Safeguards and Security (OSS) or the NRC for the purpose of identification in the NMMSS database. Information relating to the construction and interpretation of reporting identification symbols is contained in the DOE DIRECTORY OF REPORTING SYMBOLS (D-2), available from the NMMSS operator.

14. Shipper-Receiver Difference (SRD). The difference between what a shipper claims was contained in a shipment of SNM and what the receiver claims was received, where both the shipper's and receiver's values are based on measurement.

15. Source Material (SM). Uranium or thorium or any combination thereof, in any physical or chemical form; or ores that contain by weight one-twentieth of one-percent (0.05%) or more of (1) uranium, (2) thorium or, (3) any combination thereof. Source material includes depleted uranium and natural uranium, but not "special nuclear material".

16. Special Nuclear Material (SNM). Plutonium, Uranium-233, uranium enriched in the isotope uranium-235 and any other material that the NRC, pursuant to the provisions of Section 51 of the Atomic Energy Act of 1954 (as amended) determines to be SNM; and any material artificially enriched in any of the foregoing.

APPENDIX VII

ACRONYMS AND ABBREVIATIONS

APPENDIX VII

ACRONYMS AND ABBREVIATIONS

ADP	Automated Data Processing
ANSI	American National Standards Institute
AL	Accidental Loss
CCN	Country Control Number
CFR	Code of Federal Regulations
DOD	Department of Defense
DOE	Department of Energy
ekg	Effective Kilogram
GDP	Gaseous Diffusion Enrichment Plant
gm. or g.	Gram
HEU	High Enriched Uranium
IAEA	International Atomic Energy Agency
ID	Inventory Difference
INFCIRC	IAEA-Information Circular
INMTS	International Nuclear Material Tracking System
IPELTS	International Programs Export License Tracking System
ICT	Inventory Change Type
Kg	Kilograms
KMP	Key Measurement Point
LE	Limit of Error
LEU	Low Enriched Uranium
MBA	Material Balance Area
MBR	Material Balance Report
MMDDYYYY	Month, Day, Year
MD	Measured Discards
MSR	Material Status Report
MT	Material Type
NDA	Non Destructive Assay
NMMSS	Nuclear Materials Management and Safeguards System
NMSS	NRC Office of Nuclear Materials Safety and Safeguards
NRC	Nuclear Regulatory Commission
NSI	National Security Information
OMP	Other Measurement Point
OSS	DOE Office of Safeguards and Security
Pu	Plutonium
RD	Restricted Data
RIS	Reporting Identification Symbol
SAMS	Safeguards Management Software

APPENDIX VII

ACRONYMS AND ABBREVIATIONS (Continued)

SNM	Special Nuclear Material
SRD	Shipper-Receiver Difference
TJ	Transaction Journal
U	Uranium
UC	Use Code
USEC	United States Enrichment Corporation
VTAOC	Variable Tails Assay Option Code
WT%	Weight Percent of Isotope

APPENDIX VIII

DOE/NRC Forms 740M, 741 and 741A

PAGE OF PAGES

DOE/NRC FORM 740M
(4-1999)
MANDATORY DATA COLLECTION
AUTHORIZED BY 10 CFR 30, 40, 50, 70, 75, 150, Public Laws 83-703, 93-438, 85-91

U.S. DEPARTMENT OF ENERGY AND U.S. NUCLEAR REGULATORY COMMISSION

CONCISE NOTE

APPROVED BY OMB: NO. 3150-0057 EXPIRES: 04/30/2002

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1. NAME	2. ATTACHMENT TO: ☐ A. DOE/NRC 741 ☐ B. DOE/NRC ☐ C. DOE/NRC 742C	3. RIS	4. REPORTING PERIOD FROM	TO
STREET ADDRESS			6. REPORTING DATE	
CITY / STATE / ZIP CODE			7. LICENSE NUMBERS	

5. TRANSACTION DATA

A. SHIPPER'S RIS	B. RECEIVER'S RIS	C. TRANSFER NUMBER	D. CORR. NUMBER	3. PC	F. AC	G. DATA CODE

8A. LINE NO.	8B. ENTRY REFERENCE	8C. TEXT OF CONCISE NOTE

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

9. SIGNATURE *(See instructions [NUREG/BR-0006] for provisions regarding confidentiality.)*	10. TITLE	11. DATE

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DOE/NRC FORM 740M (4-1999)

PRINTED ON RECYCLED PAPER

DOE/NRC FORM 741
(4-1999) Previous editions are obsolete
MANDATORY DATA COLLECTION
AUTHORIZED BY 10 CFR 30, 40, 50, 70, 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. 3150-0003 EXPIRES: 04/30/2002

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NUCLEAR MATERIAL TRANSACTION REPORT

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				SHIPPER / RECEIVER		SHIPPER / RECEIVER		PAGE OF PAGES COPY OF COPIES SERIES

9A. NAME AND ADDRESS OF SHIPPER	9B. LICENSE NO.	10A. NAME AND ADDRESS OF RECEIVER	10B. LICENSE NO.
C. ATTENTION D. TELEPHONE		C. ATTENTION D. TELEPHONE	

11. NO. OF DATA LINES (20-21)

12. NATURE OF TRANSACTION (22-23)

13A. SHIPPED FOR ACCOUNT OF — B. RIS (23-26)

14A. SHIPPED TO ACCOUNT OF — B. RIS (27-30)

15. TRANSFER AUTHORITY CONTRACT, BILL OF LADING, OR ORDER NUMBER (31-50)

16. EXPORT OR IMPORT TRANSFERS A. LICENSE NO. (51-55)

B. U.S. PORT EXIT/ENTRY (56-58)

17. MATERIAL TYPE AND DESCRIPTION

18. TRANSPORTATION PROFILE

A. TRIP SEQ.	B. CARRIER IDENTIFICATION	C. TRANSFER POINT	19. PACKAGE IDENTIFICATION A. MODEL ID	B. NUMBER	20. ACTION DATE	MONTH (59-61)	DAY (62-63)	YEAR (64-67)
1	(65-79)	(80-84)	(85-91)	(92-98)	A. SHIPMENT			
2	(99-113)	(114-118)	(119-125)	(126-132)	B. SHIPPER'S CORRECTION			
3	(134-148)	(149-153)	(154-160)	(161-167)	C. RECEIPT			
4	(168-182)	(183-187)	(188-194)	(195-201)	D. RECEIVER'S MEASUREMENT			
5	(202-216)		(217-223)	(224-230)	E. RECEIVER'S CORRECTION			

22. TOTAL GROSS WEIGHT (231-237)

23. TOTAL VOLUME (Bulk Transfers only) (238-245)

21. MISCELLANEOUS

B. CONCISE NOTE ATTACHED YES NO

C. CONCISE NOTE ATTACHED YES NO

NO.	DISTRIBUTION OF COPIES
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24. SHIPPER'S DATA

LINE NO. (1-3)	TYPE OF INV. CHANGE (4-5)	IDENTIFICATION (MATERIAL) (6-9)	NO. OF ITEMS (10-13)	PRODUCT NUMBER (14-17)	MATERIAL TYPE (18-19)	TOTAL PRODUCT TEXT (20-24)	FROM CODE (25-27)	TO CODE (28-30)	PURCHASE CONTROL NUMBER (31-40)	KEY MEAS. POINT (41-42)	MEAS. POINT 1 BASIC (43-47)	2 DIFF. (48-52)	3 DIFFERENCE (53-57)	GROSS WEIGHT (58-67)	NET WEIGHT (68-77)	ESTIMATED WEIGHT (78-87)	ESTIMATED WEIGHT ERROR (88-97)	WEIGHT UNIT (98-99)	VOLUME WEIGHT (100-109)	VOLUME WEIGHT ERROR (110-119)

25. RECEIVER'S DATA

LINE NO. (1-3)	TYPE OF INV. CHANGE (4-5)	IDENTIFICATION (MATERIAL) (6-9)	NO. OF ITEMS (10-13)	PRODUCT NUMBER (14-17)	MATERIAL TYPE (18-19)	TOTAL PRODUCT TEXT (20-24)	FROM CODE (25-27)	TO CODE (28-30)	PURCHASE CONTROL NUMBER (31-40)	KEY MEAS. POINT (41-42)	MEAS. POINT 1 BASIC (43-47)	2 DIFF. (48-52)	3 DIFFERENCE (53-57)	GROSS WEIGHT (58-67)	NET WEIGHT (68-77)	ESTIMATED WEIGHT (78-87)	ESTIMATED WEIGHT ERROR (88-97)	WEIGHT UNIT (98-99)	VOLUME WEIGHT (100-109)	VOLUME WEIGHT ERROR (110-119)

24. SHIPPER'S DATA
(See instructions (NUREG/BR-0006) for provisions regarding confidentiality)
T. SIGNATURE OF AUTHORIZED OFFICIAL AND DATE SIGNED

25. RECEIVER'S DATA
(See instructions (NUREG/BR-0006) for provisions regarding confidentiality)
T. SIGNATURE OF AUTHORIZED OFFICIAL AND DATE SIGNED

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DOE/NRC FORM 741A
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MANDATORY DATA COLLECTION
AUTHORIZED BY 10 CFR 30, 40, 50, 70, 75, 150, Public Laws 83-703, 93-438, 95-91

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U.S. DEPARTMENT OF ENERGY
AND
U.S. NUCLEAR REGULATORY COMMISSION

TRANSFER SERIES

SHIPPER'S PIN (1-4)	RECEIVER'S PIN (5-8)	TRANSACTION NO. (9-14)	CORR. NO. (15)

NUCLEAR MATERIAL TRANSACTION REPORT

(Continuation Page)

24. SHIPPER'S DATA

LINE NO. (25-31) A.	TYPE OF INV. CHANGE (32-37) B.	IDENTIFICATION (EACH NAME) (38-50) C.	NO. OF ITEMS (51-60) D.	PROJECT NUMBER (61-70) E.	MATL. TYPE (71-72) F.	COMP/ FACILITY CODE (73-80) G.	PROD. CODE (81-82) H.	ORDER CODE (83-84) I.	COUNTRY CONTRACT NUMBER (85-90) J.	KEY MEAS. POINT (91-92) K.	MEAS. IDENT. L. 1 BASIS (93-95)	2 COMP. (96-98)	3 METHOD (99-101)	GROSS WEIGHT M.	NET WEIGHT N.	ELEMENT WEIGHT (102-111) O.	ELEMENT LIST OF ERROR (112-121) P.	WEIGHT % ISOTOPE (122-131) Q.	ISOTOPE WEIGHT (132-141) R.	ISOTOPE LIST OF ERROR (142-151) S.

24. SHIPPER'S DATA
(See instructions (NUREG/BR-0006) for provisions regarding confidentiality)

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NRC FORM 335
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NRCM 1102,
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BIBLIOGRAPHIC DATA SHEET

(See instructions on the reverse)

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Rev. 4

2. TITLE AND SUBTITLE

Instructions for Completing Nuclear Material Transfer Reports

3. DATE REPORT PUBLISHED

MONTH	YEAR
October	1999

4. FIN OR GRANT NUMBER

5. AUTHOR(S)

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8. PERFORMING ORGANIZATION - NAME AND ADDRESS *(If NRC, provide Division, Office or Region, U.S. Nuclear Regulatory Commission, and mailing address; if contractor, provide name and mailing address.)*

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U.S. Nuclear Regulatory Commission
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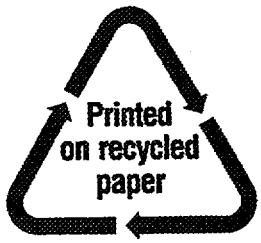

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