

**SEPARATE STORAGE INSTALLATIONS**

DATE:

**CONFIDENTIAL  
WHEN COMPLETED**

APPROVED BY OMB: NO. 3150-0056  
EXPIRES: 06/30/2008

**INTERNATIONAL ATOMIC ENERGY AGENCY  
DEPARTMENT OF SAFEGUARDS AND INSPECTION**

**DESIGN INFORMATION  
QUESTIONNAIRE \***

**(CONTINUED)**

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\* Questions which are not applicable may be left unanswered.

**SEPARATE STORAGE INSTALLATIONS**

**GENERAL STORAGE DATA**

13. FACILITY DESCRIPTION  
(for each storage area)

GENERAL DIAGRAM(S) ATTACHED UNDER REFERENCE NUMBERS:

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**GENERAL STORAGE DATA**

14. DESIGN CAPACITY

15. ANTICIPATED ANNUAL THROUGHPUT AND INVENTORY  
(in the form of forward programme indicating the proportion of various receipts and shipments)

**NUCLEAR MATERIAL DESCRIPTION AND FLOW**

16. TYPES OF UNITS HANDLED AT THE FACILITY

IF NECESSARY, ATTACH DRAWING(S)

17. MAIN MATERIAL DESCRIPTION (in general)

- i) Physical (Mechanical) Form and Dimensions (for fuel element/assembly stored, attach drawings)

DRAWING(S) ATTACHED UNDER REFERENCE NUMBER(S)

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**NUCLEAR MATERIAL DESCRIPTION AND FLOW**

17. MAIN MATERIAL DESCRIPTION  
(in general) (Continued)

ii) Chemical Form  
(indicate chemical composition or  
main alloy constituents)

iii) Enrichment Range and Pu Content

iv) Range of Weight of Nuclear Material

v) Cladding Materials

vi) Means of Nuclear Material  
Identification

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**NUCLEAR MATERIAL DESCRIPTION AND FLOW**

<p>17. MAIN MATERIAL DESCRIPTION (in general) (Continued)</p> <p>vii) Types of Containers, Packaging</p> <p>viii) Radiation Level at Nuclear Material Location</p> <p>ix) Other Nuclear Material in the Facility Not Already Specified (quantity, form and location of inventory)</p>	<p>DRAWING(S) ATTACHED UNDER REFERENCE NUMBERS:</p>
<p>18. SCHEMATIC FLOW SHEET FOR NUCLEAR MATERIAL (identifying measurement points, accountability areas, inventory locations, etc., for operator purposes)</p>	<p>DRAWING(S) ATTACHED UNDER REFERENCE NUMBERS:</p>

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**HANDLING OF NUCLEAR MATERIAL**

19. DESCRIPTION OF EACH NUCLEAR MATERIAL STORAGE AREA (inventory location)	DRAWING(S) ATTACHED UNDER REFERENCE NUMBERS:
20. DESIGN RANGE OF INVENTORIES OF NUCLEAR MATERIAL IN EACH STORAGE AREA	
21. METHOD OF POSITIONING OF NUCLEAR MATERIAL IN STORAGE	IF NECESSARY, ATTACHED DRAWING(S)
22. ROUTES AND EQUIPMENT USED FOR MOVEMENT OF NUCLEAR MATERIAL (if applicable)	DRAWING(S) ATTACHED UNDER REFERENCE NUMBERS:
23. FREQUENCY OF RECEIPT AND SHIPMENT	

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**HANDLING OF NUCLEAR MATERIAL**

24. SHIELDING  
(for storage and transfer)

**PROTECTION AND SAFETY MEASURES**

25. BASIC MEASURES FOR PHYSICAL  
PROTECTION OF NUCLEAR MATERIAL

26. SPECIFIC HEALTH AND SAFETY RULES  
FOR INSPECTOR COMPLIANCE  
(if extensive, attach separately)

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**NUCLEAR MATERIAL ACCOUNTANCY AND CONTROL**

**27. SYSTEM DESCRIPTION**

Give description of:

- the nuclear material accountancy system;
- the method of recording and reporting accountancy data and establishing material balances;
- the procedures for account adjustment after inventory and correction of mistakes, etc., under the following headings:

under the following headings:

- i) General

SPECIMEN FORMS USED IN ALL PROCEDURES ATTACHED UNDER REFERENCE NUMBERS:

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**NUCLEAR MATERIAL ACCOUNTANCY AND CONTROL**

27. SYSTEM DESCRIPTION  
(Continued)

ii) Receipts  
(including method of dealing with  
shipper/receiver differences and  
subsequent account corrections)

iii) Shipments  
(including wastes)



**SEPARATE STORAGE INSTALLATIONS**

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**NUCLEAR MATERIAL ACCOUNTANCY AND CONTROL**

27. SYSTEM DESCRIPTION  
(Continued)

iv) Physical Inventory

Frequency, procedures, established distribution of nuclear material, methods of operator's inventory taking (both for item and/or bulk accountancy, including relevant assay methods), ACCESSABILITY, and possible verification method for irradiated nuclear material, expected accuracy, access to nuclear material

v) Operational Records and Accounting Records (including method adjustment or correction and place of preservation and language)

LIST OF MAJOR ITEMS OF EQUIPMENT REGARDED AS NUCLEAR MATERIAL CONTAINERS ATTACHED UNDER REFERENCE NUMBERS:

28. FEATURES RELATED TO CONTAINMENT AND SURVEILLANCE MEASURES (general description of applied or possible measures)

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**NUCLEAR MATERIAL ACCOUNTANCY AND CONTROL**

29. FOR EACH MEASUREMENT POINT OF ACCOUNTABILITY AREAS, IDENTIFIED UNDER QS. 18, GIVE THE FOLLOWING (if applicable)

SEPARATE SHEET(S) CAN BE ATTACHED FOR EACH MEASUREMENT POINT  
IF NECESSARY, ATTACH DRAWING(S)

i) Description of Location, Type, Identification

ii) Anticipated Types of Inventory Change and Possibilities to Use This Measurement Point for Physical Inventory Taking

iii) Physical and Chemical Form of Nuclear Material (with cladding materials description)

iv) Nuclear Material Containers, Packaging

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**NUCLEAR MATERIAL ACCOUNTANCY AND CONTROL**

29. FOR EACH MEASUREMENT POINT OF ACCOUNTABILITY AREAS, IDENTIFIED UNDER QS. 18, GIVE THE FOLLOWING (if applicable) (Continued)

v) Sampling Procedure and Equipment Used

vi) Measurement Method(s) and Equipment Used

vii) Source and Level of Random and Systematic Errors (weight, volume, sampling, NDA)

viii) Technique and Frequency of Calibration of Equipment Used

ix) Method of Converting Source Data to Batch Data

x) Means of Batch Identification

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**NUCLEAR MATERIAL ACCOUNTANCY AND CONTROL**

29. FOR EACH MEASUREMENT POINT OF ACCOUNTABILITY AREAS, IDENTIFIED UNDER QS. 18, GIVE THE FOLLOWING (if applicable) (Continued)

- xi) Anticipated Batch Flow Rate Per Year
- xii) Anticipated Number of Inventory Batches

xiii) Anticipated Number of Items Per Flow and Inventory Batches

xiv) Type, Composition and Quantity of Nuclear Material Per Batch (with indication of batch data, total weight of each element of nuclear material and the isotopic composition (for uranium) and Pu content, when appropriate; form of nuclear material)

xv) Features Related to Containment-Surveillance Measures

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**OPTIONAL INFORMATION**

30. OPTIONAL INFORMATION  
(that the operator considers relevant  
to safeguarding the facility)

Signature of Responsible Officer:

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Date: \_\_\_\_\_