DATE:

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# 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.

#### RESEARCH AND DEVELOPMENT FACILITIES (LOCATIONS OF NUCLEAR MATERIAL IN AMOUNTS GREATER THAN ONE EFFECTIVE KILOGRAM)

G	ENERAL FACILITY DATA
13. FACILITY DESCRIPTION (with indication of accountability areas)	GENERAL DIAGRAM(S) ATTACHED UNDER REFERENCE NUMBERS:
14. NORMAL INVENTORY	

GENERAL FACILITY DATA		
15. ANTICIPATED ANNUAL THROUGHPUT AND/OR INVENTORY FOR THE FACILITY WORKING AT NOMINAL CAPACITY		
16. DESCRIPTION OF THE USE OF NUCLEAR MATERIAL		
17. IMPORTANT ITEMS OF EQUIPMENT WHICH USE, PRODUCE OR PROCESS NUCLEAR MATERIAL	AR MATERIAL DESCRIPTION	
18. MAIN TYPES OF ACCOUNT UNITS TO BE		
HANDLED IN THE FACILITY		

	NUCLEAR MATERIAL DESCRIPTION		
	FOF	CLEAR MATERIAL DESCRIPTION REACH ACCOUNTABILITY AREA Iveral)	
	i)	Chemical and Physical Form (with cladding materials description)	
	ii)	Enrichment Ranges and Pu Content	
	iii)	Estimated Nominal Weight of Nuclear Material at the Facility	
20.	WAS	STE MATERIAL	
	i)	Source and Form (indicating major contributors; liquid or solid; range of constituents, enrichment range and Pu content, including contaminated equipment)	
	ii)	Quantities in Storage and at Other Locations	

NUCLE	AR MATERIAL DESCRIPTION
WASTE MATERIAL (Continued)	
iii) Method and Frequency of Recovery/Disposal	
OTHER NUCLEAR MATERIAL IN THE FACILITY AND ITS LOCATION (each separately located)	
MEANS OF NUCLEAR MATERIAL IDENTIFICATION IN THE FACILITY	
	WASTE MATERIAL (Continued) ii) Method and Frequency of Recovery/Disposal OTHER NUCLEAR MATERIAL IN THE FACILITY AND ITS LOCATION (each separately located) (each separately located) MEANS OF NUCLEAR MATERIAL

NUCLEAR MATERIAL DESCRIPTION	
23. RADIATION LEVEL AT NUCLEAR MATERIAL LOCATIONS (at specified places)	
NU	ICLEAR MATERIAL FLOW
24. SCHEMATIC FLOW SHEET FOR NUCLEAR MATERIAL (identifying measurement points, accountability areas, inventory location, etc., for operator purposes)	DIAGRAM (S) ATTACHED UNDER REFERENCE NUMBERS:
25. TYPES, FORM AND RANGE OF QUANTITIES	
<ul> <li>OF NUCLEAR MATERIAL IN:</li> <li>Operation Areas</li> <li>Storage Areas</li> <li>Other Locations (average data for each location)</li> </ul>	
	LEAR MATERIAL HANDLING ACH ACCOUNTABILITY AREA)
26. DESCRIPTION OF NUCLEAR MATERIAL STORAGE (indicating capacity, anticipated inventory and throughput, etc.)	DRAWING(S) ATTACHED UNDER REFERENCE NUMBERS:
27. MAXIMUM QUANTITY OF NUCLEAR MATERIAL TO BE HANDLED IN ACCOUNTABILITY AREAS	

NUCLEAR MATERIAL HANDLING (FOR EACH ACCOUNTABILITY AREA)	
28. MODIFICATION OF THE PHYSICAL/ CHEMICAL FORM DURING OPERATION	
29. NUCLEAR MATERIAL TRANSFER	
30. FREQUENCY OF RECEIPT AND SHIPMENT	
31. NUCLEAR MATERIAL TRANSFER EQUIPMENT (if applicable)	DRAWING(S) ATTACHED UNDER REFERENCE NUMBERS:
32. DESCRIPTION OF CONTAINERS USED FOR STORAGE AND HANDLING	DRAWING(S) ATTACHED UNDER REFERENCE NUMBERS:
33. ROUTES FOLLOWED BY NUCLEAR MATERIAL	
34. SHIELDING (for storage and transfer)	

PR	OTECTION AND SAFETY
35. BASIC MEASURES FOR PHYSICAL PROTECTION OF NUCLEAR MATERIAL	
36. SPECIFIC HEALTH AND SAFETY RULES FOR INSPECTOR COMPLIANCE (if extensive, attach separately)	

<ul> <li>37. SYSTEM DESCRIPTION Give description of:</li> <li>the nuclear material accountancy <ul> <li>system</li> <li>the method of recording and reporting</li> <li>accountancy data and establishing</li> <li>material balance</li> <li>the procedures for account adjustment</li> <li>after inventory, and corrections of</li> <li>mistakes, etc., under the following</li> <li>headings</li> </ul> </li> <li>i) General</li> </ul>
<ul> <li>system the method of recording and reporting accountancy data and establishing</li> <li>material balance the procedures for account adjustment after inventory, and corrections of mistakes, etc., under the following headings</li> </ul>
i) General

		NUCLEAR MAT	ERIAL ACCOUNTANCY AND CONTROL
37.	SYS (Cor	TEM DESCRIPTION tinued)	
	ii)	Receipts (including method of dealing with shipper/receiver differences and subsequent account corrections)	
	iii)	Shipments (including waste)	

	NUCLEAR MAT	ERIAL ACCOUNTANCY AND CONTROL
	STEM DESCRIPTION ontinued)	
iv)		
v)	Retained Waste (estimated quantities per year, period of storing)	
vi)	Physical Inventory Description of procedures, scheduled frequency, estimated distribution of nuclear material, method of operator's inventory taking (both for item and/or mass accountancy, including relevant assay method), accessability and possible verification method for irradiated nuclear material, expected accuracy, and access to nuclear material	LIST OF MAJOR ITEMS OF EQUIPMENT REGARDED AS NUCLEAR MATERIAL CONTAINERS ATTACHED UNDER REFERENCE NUMBERS:

NUCLEAR MATE	ERIAL ACCOUNTANCY AND CONTROL
37. SYSTEM DESCRIPTION (Continued)	
(Continued) vii) Operational Records and Accounting Records (including method of adjustment or correction and place of preservation and language)	
38. FEATURES RELATED TO CONTAINMENT AND SURVEILLANCE MEASURES (general description of applied or possible measures)	

NUCLEAR MATERIAL ACCOUNTANCY AND CONTROL		
39. FOR EACH MEASUREMENT POINT OF ACCOUNTABILITY AREAS, IDENTIFIED UNDER QS. 24, GIVE THE FOLLOWING (if applicable)	SEPARATE SHEET(S) FOR EACH MEASUREMENT POINT CAN BE ATTACHED. (If necessary, attach drawing(s).)	
i) Description of Location, Type, Identification		
ii) Anticipated Types of Inventory Change and/or Possibilities to Use This Measurement Point for Physical Inventory Taking		
<ul> <li>iii) Physical and Chemical Form of Nuclear Material (with cladding materials description)</li> </ul>		

NUCLEAR MATERIAL ACCOUNTANCY AND CONTROL		
39. FOR EACH MEASUREMENT POINT OF ACCOUNTABILITY AREAS, IDENTIFIED UNDER QS. 24, GIVE THE FOLLOWING (if applicable) (Continued)		
iv) Nuclear Material Containers, Packaging		
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, analytical, NDA)		
viii) Technique and Frequency of Calibration of Equipment Used		

NUCLEAR MATERIAL ACCOUNTANCY AND CONTROL		
39. FOR EACH MEASUREMENT POINT OF ACCOUNTABILITY AREAS, IDENTIFIED UNDER QS. 24, GIVE THE FOLLOWING (if applicable) (Continued)		
ix) Method of Converting Source Data to Batch Data		
x) Means of Batch Identification		
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 nuclear material in item, the isotopic composition (for uranium), and Pu content, when appropriate; form of nuclear material)		

DATE:

NUCLEAR MATERIAL ACCOUNTANCY AND CONTROL		
<ul> <li>39. FOR EACH MEASUREMENT POINT OF ACCOUNTABILITY AREAS, IDENTIFIED UNDER QS. 24, GIVE THE FOLLOWING (if applicable) (Continued)</li> <li>xv) Features Related to Containment- Surveillance Measures</li> </ul>		
OPTIONAL INFORMATION		
40. OPTIONAL INFORMATION (that the operator considers relevant to safeguarding the facility		
	Signature of Responsible Officer:	
	Date:	

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