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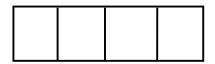
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## INTERNATIONAL ATOMIC ENERGY AGENCY DEPARTMENT OF SAFEGUARDS

## DESIGN INFORMATION QUESTIONNAIRE \*

IAEA USE ONLY



The purpose of this document is to obtain the facility design information required by the Agency in order to discharge its safeguards responsibilities. It will also serve as a checklist for examination of design information by Agency inspector(s). If, in any area, insufficient space is available add further shee ts to the extent necessary.

IAEA USE ONLY		
COUNTRY		
COUNTRY OFFICER		
ТҮРЕ	Separate storage installations	
DATE OF INITIAL DATA		
VERIFICATION		
LAST REVIEW AND UPDATING		

ALL FACILITIES				
	GENERAL INFORMATION			
1. Name of the facility (include usual abbreviation)				
2. Location and postal address				
3. Owner (Legally responsible)				
4. Operator (Legally responsible)				
<b>5. Description</b> (Main features only)				
6. Purpose				
7. Status (e.g., planned; under construction, in operation; shut down; closed down; decommissioned)				
8. Construction schedule dates (if not in operation)	Start of Construction (MM/DD/YYYY)     Commissioning (MM/DD/YYYY)     Operation (MM/DD/YYYY)			
<b>9. Normal operating mode</b> (days only, two shift, three shift; number of days/annum, etc.)				
10. Facility layout	DRAWING(S) ATTACHED UNDER REF. NOs.			
(structural containment, fences, access, nuclear material storage areas, laboratories, waste disposal areas, routes followed by nuclear material, experimental and test areas, etc.)				
11. Sitting of facility	DRAWING(S) AND/OR MAPS ATTACHED UNDER REF. NOs.			
(Maps showing in sufficient detail: location, premises and perimeter of facility, other buildings, roads, railways, rivers, etc.)				
<b>12. Names and/or titles and address of responsible officers</b> (for nuclear material accountancy and control and contact with the Agency. If possible attach organization charts showing position of officers)				

GENERAL STORAGE DATA				
<b>13. Facility Description</b> (indicating important items of equipment which use, produce or process nuclear material)	GENERAL FLOW DIAGRAM(S) ATTACHED UNDER REF. NOs.			
14. Design Capacity				
<b>15. Anticipated annual throughput and inventory</b> (in the form of forward program indicating the proportion of various receipts and shipments)				
NU	JCLEAR MATERIAL DESCRIPTION AND FLOW			
16. Types of units handled at the	IF NECESSARY, ATTACH DRAWING(S)			
facility				
<b>17. Main material description</b> (In general)	DRAWING(S) ATTACHED UNDER REF. NOs			
<ul> <li>i) Physical (mechanical) form and dimensions (for the items stored, attach drawings)</li> </ul>				
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				
vii) Types of containers, packaging				
viii) Radiation level at nuclear material location				
ix) Other nuclear material in the facility (Quantity, form and location of inventory) not already specified				
	DIAGRAM(S) ATTACHED UNDER REF. NOs.			
<b>18. Schematic flowsheet for nuclear material</b> (identifying measurement points, accountability areas, inventory location, etc., for operator purposes)				

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HANDLING OF NUCLEAR MATERIAL				
	DIAGRAM(S) ATTACHED UNDER REF. NOs.			
<b>19. Description of each nuclear</b> material storage area (Inventory location)				
20. Design range of inventories of nuclear material in each storage area				
	IF NECESSARY, ATTACH DRAWING(S)			
21. Method of positioning of nuclear material in storage				
	DRAWING(S) ATTACHED UNDER REF. NOs.			
22. Routes and equipment used for movement of nuclear material (If applicable)				
23. Frequency of receipt and shipment				
<b>24. Shielding</b> (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)				
NUCLEAR MATERIAL ACCOUNTANCY AND CONTROL				
<ul> <li>27. System description give description of:</li> <li>the nuclear material accountancy system;</li> <li>the method of recording and reporting accountancy data and establishing material balances</li> <li>the procedures for account adjustment after inventory and correction of mistakes, etc. under the following headings:</li> <li>i) General</li> </ul>	SPECIMEN FORMS USED IN ALL PROCEDURES ATTACHED UNDER REF. NO.			
<li>ii) Receipts (including method of dealing with shipper/receiver differences and subsequent account corrections)</li>				
iii) Shipments (including wastes)				

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NUCLEAR MATERIAL ACCOUNTANCY AND CONTROL				
iv) Physical inventory Frequency, procedures, estimated distribution of nuclear material, methods of operator's inventory taking (both for item and/or bulk accountancy, including relevant assay methods), accessibility and possible verification method for irradiated nuclear material, expected accuracy, access to nuclear material				
<ul> <li>v) Operational records and accounting records</li> <li>(including method of adjustment or correction and place of preservation and language)</li> </ul>				
<b>28. Features related to containment and surveillance measures</b> (general description of applied or possible measures)				
29. For each measurement point of accountability areas, identified under QS. 18, Give the following (If applicable) For each measurement point fill in separate sheet. Number of measurement points: 1 i) Description of location, type, identification	SPECIMEN FORMS USED IN ALL PROCEDURES ATTACHED UNDER REF. NO.			
<li>ii) Anticipated types of inventory change and possibilities to use this measurement point for physical inventory taking</li>				
<ul><li>iii) Physical and chemical form of nuclear material (with cladding materials description)</li></ul>				
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, NDA)				
viii) Technique and frequency of calibration of equipment used				
ix) Method of converting source data to batch data				

NUCL	EAR MATERIAL ACCOUNTANCY A	AND CONTROL		
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 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				
	POST-OPERATION INFORMAT	ΓΙΟΝ		
	End of operations (MM/DD/YYYY)	Decommissioned (MM/DD/YYYY)		
30. Decommissioning schedule dates				
	PLAN(s) ATTACHED UNDER REF. NOs			
31. Facility decommissioning plan				
i) Key events of the decommissioning plan				
ii) Removal and recovery of nuclear material				
iii) Removing or rendering inoperable of essential equipment				
OPTIONAL INFORMATION				
<b>32. Optional information</b> (that the operator considers relevant to safeguarding the facility)				
Signature of Responsible Officer				
Date (MM/DD/YYYY)				