DATE:

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#### APPROVED BY OMB: NO. 3150-0056

EXPIRES: 08/31/2020

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# INTERNATIONAL ATOMIC ENERGY AGENCY DEPARTMENT OF SAFEGUARDS AND INSPECTION

# DESIGN INFORMATION QUESTIONNAIRE \*

# (CONTINUED)

The "Confidential" marking on this form is for IAEA purposes only. It indicates that the IAEA considers the information in the completed form to be 'safeguards confidential' and is not to be confused with any U.S. security classification.

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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)

GENERAL 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	AR MATERIAL DESCRIPTION	
HANDLED IN THE FACILITY		

	NUCLEAR MATERIAL DESCRIPTION		
F	NUCLEAR MATERIAL DESCRIPTION FOR EACH ACCOUNTABILITY AREA (general)		
I)	i) Chemical and Physical Form (with cladding materials description)		
ii	ii) Enrichment Ranges and Pu Content		
ii	iii) Estimated Nominal Weight of Nuclear Material at the Facility		
20. V	WASTE MATERIAL		
ij	<ul> <li>Source and Form (indicating major contributors; liquid or solid; range of constituents, enrichment range and Pu content, including contaminated equipment)</li> </ul>		
i	ii) Quantities in Storage and at Other Locations		

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

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)		

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

NUCLEAR MATERIAL ACCOUNTANCY AND CONTROL		
37. SYSTEM DESCRIPTION Give description of:	SPECIMEN FORMS USED IN ALL PROCEDURES ATTACHED UNDER REFERENCE NUMBERS:	
<ul> <li>the nuclear material accountancy</li> <li>system         <ul> <li>system</li> <li>the method of recording and reporting accountancy data and establishing</li> <li>material balance</li> <li>the procedures for account adjustment after inventory, and corrections of mistakes, etc., under the following headings</li> </ul> </li> </ul>		
i) General		

	NUCLEAR MAT	ERIAL ACCOUNTANCY AND CONTROL
	YSTEM DESCRIPTION Continued)	
(c ii)		
iii	) Shipments (including waste)	
	(including waste)	

NUCLEAR MATERIAL ACCOUNTANCY AND CONTROL		
	TEM DESCRIPTION ntinued)	
iv)	Measured Discards (estimated quantities per year (month), method of management)	
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)	
<ul> <li>vii) Operational Records and Accounting Records (including method of adjustment or correction and place of preservation and language)</li> </ul>	
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		
<ul> <li>ii) Anticipated Types of Inventory Change and/or Possibilities to Use This Measurement Point for Physical Inventory Taking</li> </ul>		
<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		
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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