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DATE:

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)

GI	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	
NUCLE	AR MATERIAL DESCRIPTION
18. MAIN TYPES OF ACCOUNT UNITS TO BE HANDLED IN THE FACILITY	

		NUCLE	AR MATERIAL DESCRIPTION
	FOR	LEAR MATERIAL DESCRIPTION EACH ACCOUNTABILITY AREA eral)	
	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	TE 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	

NUCLEAR 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	
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NUCLEAR MATERIAL DESCRIPTION	
23. RADIATION LEVEL AT NUCLEAR MATERIAL LOCATIONS (at specified places)	
NU	CLEAR 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 OF NUCLEAR MATERIAL IN:	
 Operation Areas Storage Areas Other Locations (average data for each location) 	
NUCL (FOR E/	EAR 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)	
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NUCLEAR MATE	ERIAL ACCOUNTANCY AND CONTROL
37. SYSTEM DESCRIPTION Give description of:	SPECIMEN FORMS USED IN ALL PROCEDURES ATTACHED UNDER REFERENCE NUMBERS:
 the nuclear material accountancy system the method of recording and reporting accountancy data and establishing material balance the procedures for account adjustment after inventory, and corrections of mistakes, etc., under the following headings 	
i) General	

(Con	TEM DESCRIPTION htinued)	
ii)	Receipts (including method of dealing with shipper/receiver differences and subsequent account corrections)	
iii)	Shipments (including waste)	

	NUCLEAR MAT	ERIAL ACCOUNTANCY AND CONTROL
	TEM DESCRIPTION htinued)	
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 MATERIAL ACCOUNTANCY AND CONTROL		
37.	SYSTEM DESCRIPTION (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 MATE	ERIAL ACCOUNTANCY AND CONTROL
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 	
 Physical and Chemical Form of Nuclear Material (with cladding materials description) 	

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 Materia	al Containers, Packaging		
v) Sampling Proce Equipment Use	edure and ed		
vi) Measurement N Equipment Use	Method(s) and d		
vii) Source and Lev Systematic Erro (weight, volume analytical, NDA	e, sampling,		
viii) Technique and Calibration of E	Frequency of quipment 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				
39. FOR EACH MEASUREMENT POINT OF ACCOUNTABILITY AREAS, IDENTIFIED UNDER QS. 24, GIVE THE FOLLOWING (if applicable) (Continued)				
xv) Features Related to Containment- Surveillance Measures				
OPTIONAL INFORMATION				
40. OPTIONAL INFORMATION (that the operator considers relevant to safeguarding the facility	PTIONAL INFORMATION			

Signature of Responsible Officer:

Date: