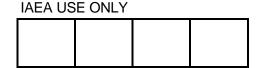
RESEARCH AND DEVELOPMENT FACILITIES

(LOCATIONS OF NUCLEAR MATI ONE EFFECT	ERIAL IN AMOUNTS GREATER THAN (IVE KILOGRAM)	DATE:
ONFIDENTIAL	APPROVED BY OMB: NO. 3150-0056	EXPIRES: 07/31/2005
VHEN COMPLETED	Estimated burden per response to comply with 360 hours. NRC is required to collect this inferior facility licensees appearing on the U.S. Eligible burden estimate to the Records Managemer Regulatory Commission, Washington, DC 20 infocollects@nrc.gov, and to the Desk O' Regulatory Affairs, NEOB-10202, (3150-0056), Washington, DC 20503. If a means used to does not display a currently valid OMB control or sponsor, and a person is not required to res	ormation for reporting to IAEA from le List. Send comments regarding nt Branch (T-6 F33), U.S. Nuclear 0555-0001, or by internet e-mail to fficer, Office of Information and Office of Management and Budget, o impose an information collection number, the NRC may not conduct
	ONAL ATOMIC ENERGY AGENCY OF SAFEGUARDS AND INSPECTI	ON

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.



* 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	

DATE:

	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	
	EAR MATERIAL DESCRIPTION
18. MAIN TYPES OF ACCOUNT UNITS TO BE HANDLED IN THE FACILITY	

	NUCLEAR MATERIAL DESCRIPTION		
19.	FOF	CLEAR MATERIAL DESCRIPTION R EACH ACCOUNTABILITY AREA neral)	
	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	

NUCLEAR MATERIAL DESCRIPTION	
20. WASTE MATERIAL (Continued)	
iii) Method and Frequency of Recovery/Disposal	
CA OTHER AHIOLEAR MATERIAL IN THE	
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	JCLEAR 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 AreasStorage Areas		
 Other Locations (average data for each location) 		
(, , , , , , , , , , , , , , , , , , ,		
	LEAR MATERIAL HANDLING ACH ACCOUNTABILITY AREA)	
26. DESCRIPTION OF NUCLEAR MATERIAL STORAGE	DRAWING(S) ATTACHED UNDER REFERENCE NUMBERS:	
(indicating capacity, anticipated inventory		
and throughput, etc.)		
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)	

DATE:

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

DATE:

NUCLEAR MATERIAL 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		

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

		NUCLEAR MAT	ERIAL ACCOUNTANCY AND CONTROL
37.		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:

DATE:

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

	NUCLEAR MATERIAL ACCOUNTANCY AND CONTROL				
/ 	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.	ACC UND (if an	EEACH MEASUREMENT POINT OF COUNTABILITY AREAS, IDENTIFIED DER QS. 24, GIVE THE FOLLOWING oplicable) ntinued)				
	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)				

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		
C	PPTIONAL INFORMATION	
40. OPTIONAL INFORMATION (that the operator considers relevant to safeguarding the facility		
	Signature of Responsible Officer:	
	Date:	