DATE:

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Estimated burden per response to comply with this mandatory collection request: 360 hours. NRC is required to collect this information for reporting to IAEA from facility licensees appearing on the U.S. Eligible List. Send comments regarding

EXPIRES: 07/31/2005

burden estimate to the Records Management Branch (T-6 F33), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by internet e-mail to infocollects@nrc.gov, and to the Desk Officer, Office of Information and Regulatory Affairs, NEOB-10202, (3150-0056), Office of Management and Budget, Washington, DC 20503. If a means used to impose an information collection does not display a currently valid OMB control number, the NRC may not conduct are sponsor, and a person is not required to respond to the information collection. or sponsor, and a person is not required to respond to, the information collection.

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.

* Questions which are not applicable may be left unanswered.

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CRITICAL (SUB-CRITICAL) FACILITIES

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13. NUMBER OF CRITICAL ASSEMBLIES IN DRAWING(S) ATTACHED UNDER REFERENCE NUMBERS: THE FACILITY AND THEIR LOCATION

CONFIDENTIAL N-93 (7-2002)

GENERAL FACILITY DATA		
14. EXPECTED MAXIMUM OPERATING POWER		
15. (1) MODERATOR, (2) REFLECTOR, (3) BLANKET, (4) COOLANT		
NUCLE	EAR MATERIAL DESCRIPTION	
16. MAIN TYPES OF NUCLEAR MATERIAL/ FUEL AND NOMINAL WEIGHT OF NUCLEAR MATERIAL IN THE FACILITY		
17. FUEL ENRICHMENT RANGE AND PU CONTENT		

	NUCLEAR MATERIAL DESCRIPTION		
18.	DESCRIPTION OF FUEL ELEMENTS (for each type) - physical and chemical form of fuel; - geometrical form or type; - dimensions; - number of slugs per element; - nuclear material and fissionable material and its quantity (with design tolerance); - composition of alloy, etc.	DRAWING(S) ATTACHED UNDER REFERENCE NUMBERS:	
19.	CLADDING MATERIAL: - thickness; - composition of material; - bonding		
20.	SUB-ASSEMBLIES OF FUEL (number of fuel elements per nuclear assembly, arrangement of fuel elements in sub-assembly, configuration and nominal weight of nuclear material per sub-assembly [with design tolerance])	DRAWING(S) ATTACHED UNDER REFERENCE NUMBERS:	
21.	BASIC OPERATIONAL ACCOUNTING UNIT (fuel elements/assemblies, etc.)	DRAWING(S) ATTACHED UNDER REFERENCE NUMBERS:	

NUCLEAR MATERIAL DESCRIPTION		
22. OTHER TYPES OF UNITS		
23. MEANS OF NUCLEAR MATERIAL/FUEL IDENTIFICATION		
24. OTHER NUCLEAR MATERIAL IN THE FACILITY (each separately identified)		

	CORE		
25.	CORE DIAGRAM (for each critical assembly showing the general disposition, core support structure, shielding and heat removal arrangements, channels for fuel elements or sub-assemblies, control rods, moderator, reflector, beam tubes, dimensions, etc.)	DRAWING(S) ATTACHED UNDER REFERENCE NUMBERS:	
26.	RANGES OF CRITICAL MASS AND MAXIMUM RADIUS		
27.	DESCRIPTION OF MOST COMMON CONFIGURATIONS	DRAWING(S) ATTACHED UNDER REFERENCE NUMBERS:	
28.	AVERAGE MEAN NEUTRON FLUX IN THE CORE: Thermal: Fast:		
29.	INSTRUMENTATION FOR MEASURING NEUTRON AND GAMMA FLUX: - accuracy and type of principal instruments; - location of indicator and recorder;		
30.	RADIATION LEVEL OUTSIDE/INSIDE SHIELDING AT SPECIFIED PLACES	RADIATION LEVEL DIAGRAM(S) ATTACHED UNDER REF. NUMBERS:	
31.	MAXIMUM RADIATION ACTIVITY OF FUEL AFTER REFUELING (at the surface and at a distance of 1 metre)		

	NU	JCLEAR MATERIAL FLOW
32.	SCHEMATIC FLOW SHEET FOR NUCLEAR MATERIAL (identification of: measurement points; accountability areas; inventory location, etc. for operator purposes)	FLOW SHEET(S) FOR NORMAL OPERATION ATTACHED UNDER REFERENCE NUMBERS:
33,	INVENTORY State quantity range and approximate uranium enrichment and plutonium content for:	
	i) Nuclear Material Storage(s)	
	ii) Core Area(s)	
	iii) Assembly Core(s) Itself	
	iv) Other Locations	

	NUCLEAR MATERIAL HANDLING		
34.	34. NUCLEAR MATERIAL		
	i)	Packaging (description)	
	ii)	Storage Plan and Arrangements	DRAWING(S) ATTACHED UNDER REFERENCE NUMBERS:
	iii)	Capacity of Storage	
	iv)	Nuclear Material Preparation (description and identification of layout and general arrangement)	DRAWING(S) ATTACHED UNDER REFERENCE NUMBERS:
35.	FUE	L TRANSFER EQUIPMENT, IF ANY	DRAWING(S) ATTACHED UNDER REFERENCE NUMBERS:
36.		JTES FOLLOWED BY NUCLEAR TERIAL	DRAWING(S) ATTACHED UNDER REFERENCE NUMBERS:

NUCLEAR MATERIAL HANDLING		
37. MAIN EQUIPMENT USED FOR		
i) Nuclear Material Assembling		
ii) Nuclear Material Testing		
iii) Nuclear Material Measuring		
PROTEC	CTION AND SAFETY MEASURES	
38 BASIC MEASURES FOR PHYSICAL PROTECTION OF NUCLEAR MATERIAL		

Grandet (GGB Grandet) Production			
PROTEC	TION AND SAFETY MEASURES		
39. SPECIFIC HEALTH AND SAFETY RULES FOR INSPECTOR COMPIANCE (if extensive, attach separately)			
NUCLEAR MAT	ERIAL ACCOUNTANCY AND CONTROL		
 40. SYSTEM DESCRIPTION Give description of: the nuclear material accountancy system; the method of recording and reporting accountancy data; the procedures for account adjustment after inventory and correction of mistakes, etc. under the following headings: i) General 	SPECIMEN FORMS USED IN ALL PROCEDURES ATTACHED UNDER REFERENCE NUMBERS:		

DATE:

	NUCLEAR MA	TERIAL ACCOUNTANCY AND CONTROL
40.	SYSTEM DESCRIPTION (Continued)	
	i) General (continued)	
	ii) Receipts	

N-93 (7-2002) CONFIDENTIAL 11

		NUCLEAR MAT	ERIAL ACCOUNTANCY AND CONTROL
40.		STEM DESCRIPTION ntinued)	
	iii)	Shipments	
	iv)	Physical Inventory Description of procedures, scheduled frequency, methods of operator's inventory taking (both for item and/or bulk accountancy), including relevant assay methods and expected accuracy, access to nuclear material, methods of verification of nuclear material in the core	LIST OF MAJOR ITEMS OF EQUIPMENT REGARDED AS NUCLEAR MATERIAL CONTAINERS ATTACHED UNDER REFERENCE NUMBERS:
	v)	Operational Records and Accounting Records (including method of adjustment or correction and place of preservation and language)	
41.	PEF	W OFTEN IS CORE DISASSEMBLED TO RMIT THE VERIFICATION OF CONTAINED CLEAR MATERIAL?	

	NUCLEAR MATERIAL ACCOUNTANCY AND CONTROL				
42.	AND (gen	TURES RELATED TO CONTAINMENT SURVEILLANCE MEASURES eral description of applied or possible sures)			
43.	ACC UND	E EACH MEASUREMENT POINT OF COUNTABILITY AREAS, IDENTIFIED DER QS. 32, GIVE THE FOLLOWING opticable) Description of Location, Type, Identification	SEPARATE SHEET(S) CAN BE ATTACHED FOR EACH MEASUREMENT POINT IF NECESSARY, ATTACH DRAWING(S)		
	ii)	Anticipated Types of Inventory Change and Possibilities to Use This Measurement Point for Physical Inventory Taking			
	iii)	Physical and Chemical Form of Nuclear Material (with cladding materials description)			
	iv)	Nuclear Material Containers, Packaging	IF NECESSARY, ATTACH DRAWING(S)		
	v)	Sampling Procedure and Equipment Used			

	NUCLEAR MATERIAL ACCOUNTANCY AND CONTROL				
43.	3. FOR EACH MEASUREMENT POINT OF ACCOUNTABILITY AREAS, IDENTIFIED UNDER QS. 32, GIVE THE FOLLOWING (if applicable) (Continued)				
		Measurement Method(s) and Equipment Used			
	vii)	Source and Level of Random and Systematic Errors (measurements)			
	viii)	Technique and Frequency of Calibration of Equipment Used			
	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 Items Per Flow and Inventory Batch			

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NUCLEAR MATERIAL ACCOUNTANCY AND CONTROL		
43. FOR EACH MEASUREMENT POINT OF ACCOUNTABILITY AREAS, IDENTIFIED UNDER QS. 32, GIVE THE FOLLOWING (if applicable) (Continued) xiii) 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)		
xiv) Features Related to Containment- Surveillance Measures		
O	PTIONAL INFORMATION	
44. OPTIONAL INFORMATION (that the operator considers relevant to safeguarding the facility)	Signature of Regnancible Officer:	
	Signature of Responsible Officer:	
	Date:	

N-93 (7-2002) CONFIDENTIAL 15