CONFIDENTIAL WHEN COMPLETED

APPROVED BY OMB: NO. 3150-0056

DATE:

EXPIRES: 09/30/2017

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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.

ISOTOPIC ENRICHMENT PLANTS

OVERALL PROCESS PARAMETERS		
13. FACILITY DESCRIPTION (indicating all process stages, storage areas and feed, product, tail, and waste points)	GENERAL FLOW DIAGRAM(S) ATTACHED UNDER REFERENCE NUMBERS:	
 PROCESS DESCRIPTION (identifying sampling and key measurement points; MBAs; inventory locations) 	FLOW SHEET(S) FOR NORMAL OPERATION ATTACHED UNDER REFERENCE NUMBERS:	
15. DESIGN CAPACITY (throughput and energy consumption)	MTUSW/annum MW	
 ANTICIPATED ANNUAL THROUGHPUT (in the form of a forward programme, indicating the proportion of various feeds and products) 		

ISOTOPIC ENRICHMENT PLANTS

DATE:

	NUCLEAR MATERIAL DESCRIPTION AND FLOW			
17.	MAIN MATERIAL DESCRIPTION	FEED	PRODUCT	TAILS
i)	Chemical and Physical Form			
ii)	Throughput and Enrichment Ranges			
	(for normal flow sheet operation indicating if blending and/or recycling takes place)			
III)	Batch Size/Flow Rate and Campaign Period			
iv)	Maximum Capability as Concentration of			
	Top Product (Nat. U feed)			
v)	Storage Inventory			
	(indicating any change with throughput)			
VI)	Frequency of Receipt or Shipment			
18. W	ASTE MATERIAL			
i)	Source and Form			
	(Indicating major contributors; liquid or solid; range of constituents; enrichment			
	range; include contaminated equipment)			
ii)	Storage Inventory Range, Method and			
-	Frequency of Recovery/Disposal			

NUCLEAR MATERIAL DESCRIPTION AND FLOW		
19. CONTAINER AND STORAGE AREA DESCRIPTION	SEPARATE NOTE TO BE ATTACHED. Describe for feeds, products, tails, and wastes: the type and size of storage and shipping containers and packaging used, (including nominal capacity and capacity for normal operation, and type of material); method of storage or packing, filling and emptying procedures (include time cycle); shielding; and any special identification features.	
20. MEASURED DISCARDS AND		
i) As % of input		
21. INVENTORY		
 i) In-Process (within plant and equipment during normal operation; indicate quantity form and main locations and any significant change with time or throughput) 		
ii) Other Locations		
(quantity, form and location of inventory not already specified)		

ISOTOPIC ENRICHMENT PLANTS

	PLANT MAINTENANCE
22. MAINTENANCE, DECONTAMINATION,	SEPARATE NOTE TO BE ATTACHED
CLEAN-OUT	Describing plans and procedures and defining all sampling and key measurement points associated with:
	i) Normal Plant Maintenance;
	 ii) Plant and Equipment Decontamination and Subsequent Nuclear Material Recovery;
	 iii) Plant and Equipment Clean-out Including Means of Ensuring Vessels Are Empty.
PROTEC	CTION AND SAFETY MEASURES
23.I BASIC MEASURES FOR PHYSICAL PROTECTION OF NUCLEAR MATERIAL	
24. SPECIFIC HEALTH AND SAFETY RULES FOR INSPECTOR COMPLIANCE (if extensive, attach separately)	

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NUCLEAR MATERIAL ACCOUNTANCY		
 25. SYSTEM DESCRIPTION Give a description of the nuclear material accounting system, the method of recording and reporting accountancy data and establishing material balances, procedures for account adjustment after plant inventory, mistakes, etc., under the following headings: i) General 	SPECIMEN FORMS USED IN ALL PROCEDURES ATTACHED UNDER REFERENCE NUMBERS:	
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NUCLEAR MATERIAL ACCOUNTANCY			
25. SY	STEM DESCRIPTION (Continued)		
ii)	Receipts (including method of dealing with shipper/ receiver differences and subsequent account corrections)		
iii)	Shipments (product and waste)		

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NUCLEAR MATERIAL ACCOUNTANCY			
25. SYS	TEM DESCRIPTION (Continued)	LIST OF MAJOR ITEMS OF EQUIPMENT REGARDED AS NUCLEAR	
iv)	Physical Inventory (frequency, procedures, estimated distribution)	MATERIAL CONTAINERS ATTACHED UNDER REFERENCE NOMBERS.	
20	Massured Dissords and Datained Waste		
vil	Operation Records and Accounts		
VI)	Operation Records and Accounts (Including method of adjustment or correction and place of preservation and language)		

NUCLEAR MATERIAL ACCOUNTANCY			
26. FO	R EACH KEY MEASUREMENT POINT		
TH	E FOLLOWING*		
i)	Identification		
.,			
ii)	Chemical and Physical Form of Material		
iii)	Sampling Procedure and Equipment		
	Used		
iv)	Measurement/Analytical Method and		
,	Equipment Used		
v)	Source and Level of Random and		
	(weighing, volume, sampling,		
	analytical)		
vi)	Method of Converting Source Data		
	to Batch Data (standard calculative procedures,		
	constants and empirical relationships)		
	* COMPLETE PAGE 9 AND PAGE 10 FOR EACH KMP		

NUCLEAR MATERIAL ACCOUNTANCY AND CONTROL		
26. FOR EACH KEY MEASUREMENT POINT IDENTIFIED UNDER QS. 14 and 22, GIVE THE FOLLOWING*		
vii) Calculative and Error Propagation Technique		
viii) Technique and Frequency of Calibration of Equipment Used		
ix) Programme for the Continuing Appraisal of the Accuracy of Weight, Volume, Sampling Techniques and Measurement Methods		
x) Programme for Statistical Evaluation of Data from (viii) and (ix)		
* COMPLETE PAGE 9 AND PAGE 10 FOR EACH KMP		

DATE:

NUCLEAR MAI	NUCLEAR MATERIAL ACCOUNTANCY AND CONTROL		
27. OVERALL LIMIT OF ERROR Describe procedures to combine individual measurement error measurements to obtain the overall limit of error for:			
i) S/R Difference			
ii) Book Inventory			
iii) Physical Inventory			
iv) MUF			
0	PTIONAL INFORMATION		
28. OPTIONAL INFORMATION (that the operator considers relevant to safeguarding the facility)			
	Signature of Responsible Officer:		
	Date:		