Regulations 15, 20 ATOMIC ENERGY FORM 2B (AEC 2B)

ATOMIC ENERGY COUNCIL P.O BOX 7044 KAMPALA



THE ATOMIC ENERGY ACT, 2008, ACT NO.24 OF 2008

FORM 2B

APPLICATION FOR AUTHORISATION TO POSSESS AND USE A SOURCE(S) FOR MEDICAL APPLICATION

TYPE OF AUTHORIZATION (please tick)		
New application		
Renewal of authorization number:		
GEN	ERAL INFORMATION	
1. Name and address of applicant:		
Name of Applicant	Mailing address	Address of use (if different)
E-mail of Applicant		<u> </u>
Phone Contact (Including Mobile No.)		
2. Name and information about qualif	ied experts:	
A. Expertise Radiation Safety Office	er B. Expertise:	
Name:	Name:	
Qualification:	Qualification:	
Experience:	Experience:	
Telephone	Telephone	
3. The representative of the applicant Name:	Telephone :	

	PART I – MED	ICAL DIAGN	OSTIC X-RA	Y EQUIPME	NT	
De	etails of X-ray generator					
N	Nanufacturer address/Workload	Number of tubes	Model number	Serial number	Max. Voltage (kV)	Max. Curren (mA)
Na	ame:				()	(*****)
Ac	ddress:					
	ax Output:					
Ex	posure time per week:					
N	eekly Work Load:					
	ame:ddress:					
M	ax Output:					
	posure time per week:					
De	evice Standards Is each device manufactured, pro an international standard setting	٥.	-	•	•	
De	evice Standards Is each device manufactured, pro an international standard setting Yes No	g organizatio	on (e.g IEC, I	SO)? Tick w	here appropr	iate
Dee a)	evice Standards Is each device manufactured, pro an international standard setting Yes No If the answer above is Yes, identify the type of installation of the X-ray Identify who is (or will be) autho	g organization organization organization of the standard of the standard organization organizati	dards abs ar	ile?	e classification	n number
Dee a)	evice Standards Is each device manufactured, pro an international standard setting Yes No If the answer above is Yes, identify the type of installation of the X-ray Identify who is (or will be) autho device(organization and address)	g organization organization organization of the standard of the standard organization organizati	dards abs ar xed or mob form the se	ile?rvice and m	e classification	n number
b)	Is each device manufactured, pro an international standard setting Yes	g organization organization organization of the standard of the standard organization organizati	dards abs ar xed or mob form the se	ile?rvice and m	e classification	n number
Dee a)	Is each device manufactured, pro an international standard setting Yes	y machine fi	dards abs ar	ny applicable	e classification	n number
b)	Is each device manufactured, pro an international standard setting Yes	g organization org	dards abs ar xed or mob form the se	ny applicable ile? rvice and m	e classification	n number

PART II-RADIOTHERAPY

8. Type sources o	r Equipment											
Accelera	ator											
Gamma												
(a) For exte	ernal beam the	erapy										
Name and addre	ess of	Model	No. And		Coun	try of		Υ	ear of m	anufacture	Type	of gantry
manufacturer		Name				facture						
											Statio	
Describe the mov	ement of trea	tment tal	ole	•				•				
-	nma unit, fill th	ie table b	elow									
Name and addressupplier of the s		Model N source	lo of	Rac	dionucl	ide	Initi acti		Maxim	um design ad	ctivity	Total activity
(ii) For acce	elerator											
Type of radiation	1		Maximur	n en	ergy (N	ЛeV)			Maxir	mum current	(mA)	
(b) Brachyt (i)	herapy Equipment		<u>I</u>									
Manufacturer	Model No.	Rad	dionuclide		Type o loadir Manu Remo	ng al (M)	Н	ose ra igh (H ow(I)		Number of channels (remote)		Maximum activity
					M	R	Н		L			
					М	R	Н		L			
					М	R	Н		L			
<u> </u>					М	R	Н		<u>L</u>			
(ii)	Sources				М	R	Н		L			
\"/	30 di 003											
Manufacturer	Model N	o. Rad	ionuclide	R	hysical ibbon ndividu	(R) Wire	(W)		sical ensions shape	Total active per cm for and ribbo	r wire	Maximum activity
	•	•		_								

9. Standards:

 $Indicate\ to\ which\ IEC\ and\ ISO\ standards\ the\ equipment\ does\ and\ sources\ used\ for\ medical\ exposure\ conform:$

Equi	pme	ent;					
Are _l	prote	otype te	est certificates available	::			
		Yes					
		No: if	yes attach copies				
Sour	ces:						
Ares	sour	ces cert	ificates available?				
		Yes					
) 1	uos attach original coni	20			
	L		yes attach original copi	e \$			
10. S	servi	ces and	maintenance				
Iden	tify \	who wil	l be authorized to perfo	orm the service and maintena	ance of	the equipment;	
Nam	ne:			authorized referer	nce No		
Orga	aniza	ition:		address:	·		
Tele	phor	ne Num	ber:				
11, l	ocat	ion of e	quipment/sources				
Prov	vide t	the deta	ails of the location of eq	uipment/sources			
	(a)	Extern	al beam therapy				
	(-)	(i)		epartment	_ build	ing No	room No
		413	Floor				
		(ii)		town/street/ward		vehicle No)
	/h)	(iii)			_		
	(b)		ytherapy	epartment	huild	ing No	room No
		(i)			_ bulla	ing No	100m NO
		/ii\	Floor	_(ii applicable) town/street/ward		vohiclo Ne	
		(ii)	District:	town/street/ward	-	verlicie ivo)
		(iii)	DISTRICT.		_		
			PART III – NUCLEAR	R MEDICINE, ANALYTICAL AN	D RESI	EARCH LABORATORY	
12. (Give	details	of radioactive materials	s available			
	Ra	dionucl	ide (s)	Maximum activit (Bq)	у	Physical/chemical form	Use/application
e.g	Tc	99 ^m gen	erator	37GBq		Sodium pertechnetale	Diagnostic imaging
(a)							
(b)							
(c)							
(D)							

^{13.} Attach a sketch of the laboratory layout and describe the laboratory facilities and factors such as.

(a). Pr	lysical separation of the laboratory from personal offices, meeting space and eating areas
(b). La	boratory ventilation in order to allow air circulation
	me hood available in case of experiments involving the use of volatile radioactive sources (e.g radioiodine, d sulphur-35 labelled amino acid compounds to avoid airborne radioactivity.
(b). W	orking area for wet chemistry experiments or admission of radioisotopes to patients (in case of nuclear
	oratory emergency exit door or windows with shutters, which open outwards
14. Describe any	y arrangement or facilities made for working with radioactive sources in field (if applicable)
	ocedures for monitoring and managing the generated wastes from patients who have been administered with erials in case of urination, vomiting etc.
16. Give details use and storage	of the preparation made for which the radioactive material stock solution(s) will be kept secure both during the including;
(a)Ma	terials used to construct shelving/cabinets for chemical storage (e.g hardwood or metal etc)
	rsical barriers provided in store for safe storage of radioactive materials (e.g locked /refrigerator/drawers/boxes).
(c)Log	books for recording receipts, usage, discharge or disposal of radioactive materials
	me of person responsible for constant surveillance of all radioactive stock materials in store and control to radioactive materials with unauthorised individuals
17. Descibe how	v arrangement is made to separate corrosive and flammable materials from radioactive stock solutions in store.
	availability of chemical resistant and readily cleaned bench surface used on bench tops (eg.chemical grade
19. Explain the a	availability of laboratory of washing sinks installed and labelled for radioactive materials;

20. Describe the laborat when contaminated	ory absorbent materials availa	able to cover laboratory bench top	os which can be changed periodically
21. Describe the type of	spill trays available to contain	n materials in the event of spill	
•	ive gears available for workin ty glasses, pipettes (automatic	•	ials (e.g laboratory coats, disposable
23. Describe the type ar	nd model f the survey meters o	or contamination monitors availab	le
24. In the table below ir radioisotope;	ndicate the types of possible w	vaste (s) that will be generated afte	er the intended application of
Radionuclide (s)	Waste type	Maximum activity	Proposed disposal route
above			re the types of wastes indicated in the type of wastes in the
		LAYOUT OF THE INSTALLATION Fill in where applicable)	
27. Describe factors suc	h as the layout of the facility a	and its safety systems including	
Emergency sto			terlock. Warning safety devices means of escape or communication

Taking into account of shie installation:	lding, provide calculation of maximum d	lose rates in all adjacent areas outside the					
Provide estimates of the m	agnitude of the expected doses to perso	ons during normal operations:					
Identify the probability and	dentify the probability and magnitude of potential exposures arising from accidents or incidents:						
clearly identified in the dra		unding. Controlled and supervised areas should b					
		KAIVIIVIE					
authority related to radiati	onal and management systems, includin on safety.	ng assignment of responsibilities and clear lines c					
•							
(i) Other assignments of th	e radiation safety						
	ion safety office to stop unsafe operatio						
(v) Personnel training							
(vi) Maintenance records							
(vii) how problems affecting	g safety are identified and correctd.						
(viii) Other useful importar							
		fety officer by name and include their training, diation safety officer may be the same individua					
Name	Qualification	Experience					
1		2.45.00.00					
2							
20. Conveituoned aufatu of a	a diation on unan						
30. Security and safety of r Describe measures to be u Use.	ndertaken to ensure the security and saf	fety of radiation sources during;					
Transport							
Storage							

28. Safety assessments:

(a)Nam	e and address of dosmetry service provide
 What th	e personal dosimeters provided to workers? Tick where appropriate
0	Thermo luminescent dosimeter (TLD)
0	Direct reading dosimeter (DRT)
0	Optically stimulated luminescence (OSL)
0	Others
	Il rules and supervision
	libe your training program to ensure that all appropriate personal are trained in the correct operating
proceat	ıres and how their actions may affect safety.
(b)Desc	ribe how you provide workers the information regarding health risks due to occupational exposure
	ribe your policies regarding female workers who become pregnant (notification, adoption of working ons to protect foetus/embryo) and the instructions you will provide to them.
	lity Assurance.
	ibe your quality Assurance program for your equipment in particular performance of the equipment, safe ks, radiation meters etc,
	ibe your program for optimising occupational and public exposure as low as reasonably achievable
	rgency procedures
	your emergency procedures to address emergencies such as substantial accidental exposure of an individ emergencies are envisaged
	Attach more sheets if necessary.
	oactive waste management.
	I the generated radioactive wastes be managed?
(a)Sourd	ce(s) return to the supplier Yes
0	No, if yes attach a copy of the agreement if no
_	I be managed in the country?
	ner radiation protection and safety requirements. (If applicable)
(a)Occi	upational and public exposures control. Describe your program for monitoring your work place (eg.dose ra rements, leak tests etc) including any dose constraints that will be applied.
usu	onto no, roak tosts oto, moraling any aose constraints that will be applied.
	lical exposure control. Describe your program for ensuring the radiation protection of patients and/or
	ters during treatment with reference to the patient flow in your department (e.g
COITHO	

PART VI DI	ECLARATION		
1 (name of legal p	person) Certify that all the	information given herein is t	true and correct to
the best of my knowledge.	-	-	
Date:Signature	e of applicant:		
ÿ	• •		
	For official use on	ly	
Registration No.			
	ВҮ	Date	Signature
Received			
Evaluated			
General Remarks and/or			
comments			