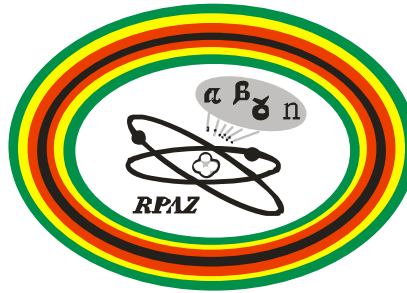


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RPAZ-LO-103

## RADIATION PROTECTION AUTHORITY OF ZIMBABWE

RADIATION PROTECTION ACT [CHAPTER 15:15]

- INSTRUCTIONS: (i) Provide ALL the requested information  
(ii) Information in item numbers 2 to 4 should be provided for each equipment/facility. Use page duplicates  
(iii) Tick appropriate box, and use separate sheet where necessary

*NOTE: The Authority may require additional information to fully consider this application prior to issuing a license*

### APPLICATION FOR AUTHORISATION FOR UNSEALED RADIOACTIVE SOURCES IN MEDICINE

#### GENERAL INFORMATION

(a) Name of Applicant/Institution:

.....  
.....

Address: .....

.....  
Telephone No.....Fax No. ....E-mail.....

(b) Classification of the Applicant:      Government       Non – Government

(c) Type of license Application:    New     Amendment     renewal

(d) Purpose of application:      Construction       use/operation



**SOURCES**

Please give the details of the radionuclides involved in the work

Radionuclide / Pharmaceutical	Maximum activity at one time (Bq)	Physical / chemical form	Use application
<i>(e.g Tc – 99m generator)</i>	<i>(e.g 37 GBq)</i>	<i>(e.g Sodium pertchnetate)</i>	<i>( e.g Diagnostic imaging)</i>

**Containment of the radionuclides:**

Describe how the radionuclides(s) will initially be contained. Indicate whether there will be any special features such as whether the container will be pressurized or incorporate shielding.

.....  
.....  
.....  
.....  
.....

**Work pattern:**

State the frequency of consignments of radionuclides and over what period of time the work will proceed.

.....  
.....  
.....  
.....  
.....

**Work Locations:**

Will the sources be stored for long periods of time at any address other than given in Item I-1 above?

Do not know       Yes       No

If yes please give details of the storage addresses:

.....	.....	.....
.....	.....	.....
.....	.....	.....
.....	.....	.....

## **Radioactive Wastes**

Indicate whether the work covered by this application is likely to generate radioactive waste(s) and provide an assessment of the different forms:

<b>Radionuclide</b>	<b>Waste Form</b>	<b>Maximum Activity</b>	<b>Proposed Disposal Route</b>
Examples: Iodine -125	Liquid	10KBq	To Drain
Technetium	Used Syringes	2MBq	Decay In Storage

Give details on how foot operated dustbins with plastic liners inside are used to store the types of wastes indicated in table above.....

.....

.....

.....

Mention how radiation wastes with activity below clearance levels ( e.g boxes, gloves, liquid etc) will be disposed ( e.g dumpsite, incinerator).....

.....

Describe procedures for monitoring and managing the generated wastes from patients who have been administered with radioactive materials in case of urination, vomiting etc

.....

.....

## **Location of the Facility**

Provide the details of the location of equipment / sources

Physical Address.(include room number)	
City / Town	
Province	

## **Layout of the Laboratory**

Attach a sketch of the laboratory layout and describe laboratory facilities and factors such as:

(a) Physical separation of the laboratory from personal offices, meeting space and eating areas .....

(b) Laboratory ventilation in order to allow air circulation .....

(c) Fume hood available in case of experiments involving the use of volatile radioactive sources( e.g. radio iodine and sulphur-35 labelled amino acid compounds to avoid airborne radioactivity) .....

(d) Working area for wet chemistry experiments or admission of radioisotopes to patients (in case of nuclear medicine) .....

(e) Laboratory emergency exit doors or windows with shutters, which open outwards .....

Describe any arrangement or facilities made for working with radioactive sources in field (if applicable): .....

Describe how arrangement is made to separate corrosive and flammable materials from radioactive stock solutions in store: .....

Explain the availability of chemical resistant and readily cleaned bench surface used on bench tops (e.g. chemical grade formica ): .....

Explain availability of laboratory washing sinks installed and labeled for radioactive materials: .....

Describe the laboratory absorbent materials available to cover laboratory bench tops which can be changed periodically when contaminated: .....

Describe the type of spill trays available to contain material in the event of spill: .....

### **Radioactive Source Stocking**

Give details of the preparation made for which the radioactive material stock solution(s) will be kept secure both during use and storage including:

(a) Materials used to construct shelving/cabinets for chemical storage (e.g. hardwood or metal etc): .....

(b) Physical barriers provided in store for safe storage of radioactive materials (e.g. locked doors/ refrigerator /drawers/boxes): .....

(c) Log books for recording receipts, usage, discharge or disposal of radioactive materials: .....

(d) Name of person responsible for constant surveillance of all radioactive stock materials in store and the control access to radioactive materials with unauthorized individuals: .....

### **Safety Assessments**

Mention the protective gears available for working with unsealed radioactive materials ( e.g. laboratory coats, disposable gloves, shoe cover, safety glasses, pipettes automatic/manual): .....

Describe the type and model of survey meters or contamination monitors available.....  
.....  
.....

Attach a written procedure for emergency plans in case of a radiological accident  
.....  
.....  
.....

Declaration: I ..... Hereby declare that the information provided above is true and correct; and that I have read and understood the Radiation Protection Act (Chapter 15:15) of 2004 which I am bound to comply with during my practice.  
Date: ..... Signature of Applicant .....

**For Official Use Only**

- (i) Date at which application form was received: .....
- (ii) Date at which the application was evaluated: .....
- (iii) Licence / Registration no. : .....
- (iv) General remarks and/or comments:  
.....  
.....  
.....  
.....

*\* It is an offence in terms of the Radiation Protection Act [Ch 15:15 ] Section 20 (1)(d) and (e) to withhold any information to the ownership or management of a radiation source or give information which he knows to be untrue or has no reason to believe to be true.*