

46 of 1996

1. These Regulations may be cited as the Ionizing Radiation (Fees) Regulations. Title

2. There shall be paid as set out in the Schedule, the fees and charges for the use of the services of the National Radiation Protection Service by members of the public and institutions.

(As amended by Act No. 13 of 1994) Fees and charges

SCHEDULE

(Regulation 2)

Fee units:

1. Personnel Dosimetry Service
 - (a) Individual per year 56
 - (b) Replacement of lost badge 56
2. (a) Quality Assurance in Diagnostic Radiology 556
 - (b) Extra X-ray machine 278
3. Inspection of Ionizing Radiation Facility Quality Control 556
4. Consultation 270
5. (a) Institutional Licence Fees 556
 - (b) Amendment of licence 278
6. Calibration of Monitoring Equipment per item 556

(As amended by SI No. 46 of 1996)

THE IONIZING RADIATION ACT

SECTION 26-THE IONIZING RADIATION PROTECTION REGULATIONS

Regulations by the Minister Statutory Instrument
171 of 1992

PART I

PRELIMINARY

1. These Regulations may be cited as the Ionizing Radiation Protection Regulations. Title

2. (1) In these Regulations, unless the context otherwise requires:

"absorbed dose" means the amount of energy deposited by ionizing radiation per mass of the material;

"Board" means the Radiation Protection Board;

"dose equivalent" means product E of absorbed dose and the weighting factors;

"non-stochastic" means manifestation whose severity of effect varies with dose and for which a threshold dose does occur but below which the effects are not detectable at all;

"personal monitoring" means measurement of a dose with a film with a device such as a film badge, pocket ionizing chamber, or thermoluminescent dosimeters worn by an individual;

"radionuclide" means a radioactive substance characterized by its atomic nucleus;

"reproductive capacity" means the period in a woman commencing with the onset of menarche and ending with menopause;

"stochastic effects" means-

(a) the manifestation whose probability of occurrence in a population exposed to ionizing radiation rather than severity in an affected individual, may be a direct function of dose;

(b) the heredity effect and some somatic effects such as carcinogenesis and the severity of stochastic effects if it occurs, shall be independent of the dose responsible for its induction;

"Sievert" means an international standard unit of measurement equal to the absorbed dose multiplied by a weighting factor, a distribution factor or any other modifying factor;

"threshold dose" means the minimum absorbed dose that will produce a detectable degree of any given effect;

"warning signs" means any of the radiation signs given in the Fifth Schedule; and

"workers" mean all persons potentially exposed to dangerous ionizing radiation or radioactive material as a result of their occupation. Interpretation

(2) The dose equivalent limits specified in these Regulations:

(a) are based on the exposure received over a period of one year, without regard to the rate of dose accumulation, except in the case of production capacity in which the time distribution of the dose equivalent shall be taken into account;

(b) shall not include contribution from natural background radiation or from medical exposure of patients to ionizing radiation; and

(c) shall include the consideration of the stochastic and non-stochastic effects.

(3) The annual dose equivalent limits shall comprise the sum of the annual dose equivalent arising from external exposure due to external sources, ionizing

radiation or internal exposure due to intake of radionuclides.

3. For the purpose of these Regulations, the competent authority shall be the Radiation Protection Board. Competent Authority

PART II

LIMITS OF EXPOSURE TO RADIATION

4. (1) The annual dose equivalent limits for workers shall be 0.5 Sv per year in any tissue except the lens of the eye whose limit shall be 0.15 Sv per year. Dose equivalent limits for workers

(2) The dose equivalent limits for workers in uniform exposed to ionizing radiation shall be 50 Sv per year.

(3) The effective dose equivalent for different tissues shall be computed by summing up the product on individual tissue doses and multiplying it with weighting factors set out in the First Schedule.

(4) The feet, ankles, skin and lens of the eye shall not be included in the computation of effective dose equivalent but shall be included in the relevant dose equivalent limits given in sub-regulation (1).

(5) The equivalent stochastic risk shall be estimated from the effective dose of the tissues of the body irradiated non-uniformly.

(6) The weighting factors for computation of the effective dose equivalent shall be as specified in the First Schedule.

5. (1) No person shall expose a woman of reproductive capacity to ionizing radiation without considering the pregnancy and the possibility of early unrecognised pregnancy. Dose limits of women of reproductive capacity

(2) No person shall for a woman of reproductive capacity cause the embryo to receive more than 5 mSv of radiation during the first two months of pregnancy.

(3) No person shall expose a foetus in a pregnant woman to a dose exceeding 10 mSv.

6. (1) The contribution of internal exposure, without external exposure, to dose equivalent of annual limits of intake to radionuclides by workers shall not exceed the annual dose limit fixed in sub-regulation (2) and (3) of Regulation 3. Limits of radionuclides

(2) The value of the annual limits of the intake for a single radionuclide and corresponding derived air concentrations shall be as set out in the Third Schedule.

(3) The sum of the weighted contribution of the various radionuclides to dose equivalent shall not exceed the limits set out in sub-regulation (2) and (3) of Regulation 4 where the intake exceeds one radionuclide during a working year.

(4) The provisions of sub-regulation (2) of Regulation 3 shall be observed where a worker is externally exposed to radionuclides.

7. (1) The planned special exposure for workers recommended by the

International Commission on Radiological Protection shall apply to these regulations.Planned special exposures

(2) Workers involved in planned special exposure shall be informed by the owner of the involved radiation facility about the nature of the risks and must consent to such exposure before under-taking the special operations.

(3) The dose equivalent received by planned special workers exposed under sub-regulation (2) of Regulation 3, shall be estimated and expert medical advice sought.

8. (1) The dose equivalent shall be assessed through personnel monitoring.Personnel Monitoring

(2) The personnel monitoring under sub-regulation (1) shall be carried out at least once every two months.

9. (1) The dose equivalent limits for members of the public shall be one-tenth of that permitted for workers under Regulation 3.Dose equivalent limits for individual members of the public

(2) The dose equivalent limits for members of the public shall be taken into account when planning radiation facility.

10. The authorized dose equivalent limits for students in educational institutions shall be as set out in the Second Schedule.Dose equivalent limits for students

11. The dose equivalent limit for teaching staff, instructors, technicians and laboratory assistants at all educational institutions shall be the same as the workers.Dose equivalent limits for teachers, instructors, etc.

12. (1) Any medical personnel shall in relation to a patient in their care ensure that:

(a) unnecessary exposure is avoided;

(b) exposure is justifiable in terms of benefits that would not otherwise be available; and

(c) the dose actually administered is limited to the minimum benefit of the patient.Dose equivalent limits for medical personnel

PART III

STRUCTURAL REQUIREMENTS AND INSPECTIONS OF BUILDINGS:

13. No person shall use a building to install or use irradiating devices or use or store any radioactive materials without a certificate of compliance issued under these regulations.Use of building for radiation purposes

14. Any area where radioactive materials or irradiating devices are used or installed shall be clearly marked and classified as-

(a) Restricted Radiation Area-where procedures with radiation devices or radioactive materials are restricted to the average dose equivalent rates exceeding 0.25 mSV/hr;

(b) Controlled Radiation Area-where procedures with radiation devices or radioactive materials are restricted to dose equivalent rates of 2.5 mSv/hr or less; or

(c) Uncontrolled Radiation Area-place within confines of a radiation facility where the external radiation or radioactive communication are not detectable. Classification of areas

15. (1) The boundaries walls and doors of restricted and controlled areas referred to in Regulation 13 shall have warning signs.

(2) Access to restricted areas shall be under strict control of the Radiation Safety Officer. Warning signs for restricted and controlled areas

PART IV

LICENSING

16. (1) Any person who intends to use radioactive materials or devices shall apply to the Board for a licence. Application for licence

(2) An application for a licence shall be in the form prescribed in the Fifth Schedule.

17. The types of licences to be issued under these regulations are set out in the Fourth Schedule. Type of licence

18. The maximum permissible levels of radionuclides shall be as set out in the Third Schedule. Permissible levels of radionuclides

PART V

TRANSPORT AND STORAGE OF RADIOACTIVE MATERIALS

19. A person delivering radioactive materials to a transport carrier, or any person transporting radioactive materials within, through or into the country shall comply with the International Atomic Energy Agency's "Regulations for the Transport of Radioactive Materials; Safety Series No. 6, 1985, (hereinafter referred to as "IAEA Transport Regulations"). "IAEA Transport Regulations

20. The package and design for the transportation of radioactive materials, through or into the country shall be in accordance with the requirements of the IAEA Transport Regulations. Approval of transport

21. Any radioactive materials stored in transit shall be stored in accordance with the IAEA Transport Regulations and handled in transit in accordance with instructions issued by the Board. Storage in transit

22. Any transfer of radioactive materials shall, prior to the transfer, be reported to the Board in the prescribed form. Transfer of sources

23. The person who sends the radioactive material shall ensure that an acknowledgement receipt of the dispatched radioactive material is received within thirty days. Acknowledgement receipt of dispatch of radioactive material

24. (1) The person who sends the radioactive material shall investigate any

shipment or part of a shipment, where acknowledgement is received within the period specified in Regulation 23 and shall immediately report to the Board. Investigation of shipment of radioactive material

(2) The shipment shall be monitored by the person who sends the radioactive material under sub-regulation (1) and shall prepare a report which shall be submitted to the Board within one week of completing the investigations.

PART VI

RADIATION SAFETY OFFICER

25. The management shall appoint a radiation safety officer at each ionizing radiation facility. Radiation safety officer

26. The radiation safety officer shall, in addition to other duties assigned to him, have the following functions:

(a) monitor the purchase and stock levels, the safe use, handling, transport, and storage of radioactive materials;

(b) inspect and monitor the facility for radiation safety, assist in the training of all relevant aspects of radiation protection;

(c) ensure that all workers are monitored regularly with personal dosimetry badges and a record system kept of the doses received; and

(d) ensure that all reports are made available to the Board. Duties of radiation safety officer

PART VII

RADIOACTIVE RELEASES TO THE ENVIRONMENT

27. (1) The release of radioactive materials to the environment shall be reported to the Board prior to the release. Authority

(2) The levels released shall be below the exemption limits set by the Board.

28. The user shall comply with the authorised release limit, by setting up an adequate programme for environmental monitoring and accounting of the radioactive substances released. Monitoring

PART VIII

EXPOSURE FROM CONSUMER PRODUCTS

29. No processing, manufacturing, commercialisation, export, import, and disposal of consumer products containing radioactive materials shall be done without authority from the Minister of Health. Consumer products

PART IX

CESSATION AND SUSPENSION OF OPERATION, DECOMMISSIONING AND ABANDONMENT OF INSTALLATION

30. A person who holds a licence shall not-

(a) cease or suspend a licensed activity or the operation of licensed installation; or

(b) abandon or decommission an installation or waste management system without prior written approval or instruction of the Board.

Authority from Board

31. Any approval or instruction issued under Regulation 29 shall prevail over a licence. Approval to prevail

32. The Board may exempt any person from the provisions of any of these Regulations on the recommendations of the Radioisotope advisory Committee. Exemption

33. No person shall disclose any information unless authorised to do so under these Regulations. Secrecy

34. Any person who contravenes any provision of these regulations shall be guilty of an offence and shall, on conviction, be liable to the penalties provided under the Act. Offences and penalty

FIRST SCHEDULE

(Regulation 4)

EFFECTIVE DOSE EQUIVALENT LIMITS

1. Occupational Exposure Limits

-whole body (prospective) 50 mSv per year

-whole body (retrospective) 100-150 mSv per year

-whole body [accumulation to

(age N-years)] (N-18) 3 50 mSv

-Skin 150 mSv per year

-Hands 750 mSv per year

-Forearm 300 mSv per year

-Other organs, tissue & organ system 150 mSv per year

-Fertile woman (with respect to foetus) 5 mSv in gestation period

2. Dose Limits for the Public or Exposed Individuals

-individual or occasional 5 mSv per year

-population dose limit

Genetic 1.7 mSv average per year

Somatic 1.7 mSv average per year

3. Emergency Dose Limits-Life Saving

-individual (older than 45 years if possible) 1 Sv

-hands and forearms 2 Sv additional

4. Emergency Dose Limits-Less Urgent

-individual 250 mSv

-hands and forearms 1 Sv total

-family of radioactive patients

Individual (under 45 years) 5 mSv per year

Individual (over 45 years) 50 mSv per year

SECOND SCHEDULE

(Regulation 10)

DOSE EQUIVALENT FOR STUDENTS

1. Effective dose equivalent 0.5 mSv per year

2. Dose equivalent to single organ or tissue such as an eye or skin 5 mSv per year

THIRD SCHEDULE

(Regulation 17)

ANNUAL LIMITS OF INTAKE (MINIMUM)
VALUES FOR SOME COMMON RADIONUCLIDES

Nuclide	ALI (min)	Nuclide	ALI (min)
H-3 water	3.109	Sr-90	8.109
C-14	3.108	Sr-85	6.107
F-18	2.109	Sr-87m	1.109
Na-22	2.107	Sr-89	5.109
Na-24	1.108	Sr-90	1.109
P-12	1.107	Y-90	2.107
P-33	1.108	Tc-99m	3.109
S-35	8.107	Mo-99	2.108

Cl-36	9.106	In-113m	2.109
Cl-38	6.108	Sb-124	1.108
K-42	2.108	I-123	1.108
K-43	2.108	I-125	1.106
Ca-45	3.107	I-129	2.105
Ca-47	3.107	I-130	1.107
Cr-51	7.108	I-131	1.106
Mn-52	3.107	I-132	1.108
Mn-52m	1.109	Cd-109	1.106
Mn-54	3.107	Cd-115	3.107
Mn-58	2.108	In-111	2.108
Fe-52	3.107	Cs-129	9.108
Fe-55	7.107	Cs-130	2.108
Fe-59	1.107	Cs-131	8.108
Co-56	7.106	Cs-134	3.106
Co-57	2.107	Cs-134m	4.109
Co-58	3.107	Cs-137	4.106
Co-60	1.106	Ba-131	1.108
Ni-63	1.108	Ba-133m	9.107
Cu-64	4.108	Ba-135m	1.108
Cu-67	2.108	La-140	2.107
Zn-62	5.107	Yb-169	2.107
Zn-65	1.107	Ir-192	8.106
Zn-69m	2.108	Au-198	4.107
Ga-67	3.107	Hg-197	2.108
Ga-68	6.108	Hg-203	2.107
As-73	8.108	Tl-201	6.108
Se-75	6.107	Pb-210	9.103

Br-76	1.108	Pb-212	1.106
Br-77	6.108	Po-210	2.104
Br-82	1.108	Ra-226	2.104
Rb-81m	9.109	Th-232	4.101
Rb-81	1.109	U-238	2.103
Rb-86	2.107	Am-241	2.102
Rb-88	7.108	Cm-244	4.102
Rb-89	1.109	Cf-252	1.103

FOURTH SCHEDULE

(Regulation 17)

TYPES OF LICENCES

1. Licence to possess or use radioactive materials or device.
2. Licence to sell, loan or deal with radioactive material or radiation device.
3. Licence to dispose of radioactive materials.
4. Licence to import/export radioactive materials or device.
5. Licence authorizing administration of ionizing radiation to persons.
6. Certificate of Compliance/Acceptance for a building.
7. Licence authorizing an engineer, or technician to install, service or maintain irradiation device or radioactive material.
8. Radiation Premises Licence.
9. Certificate of Compliance or Acceptance of a new or modified radiation device or radiation premises.

REPUBLIC OF ZAMBIA

Form RPS/A/1

Radiation Protection Board For official use only

Ministry of Health Licence No.

P.O. Box 30205 Reg. No.

Lusaka Receipt No.

THE IONIZING RADIATION ACT, 1972

(Cap. 311)

APPLICATION FOR A LICENCE TO POSSESS RADIOACTIVE MATERIAL OR RADIATION DEVICE

1. Name of Applicant
.....Tel. No.

Address
2. Name and address of owner where the radiation device will be used,
stored or installed
3. Name and address of person responsible for radiation protection
safety

Title
..... Reg. No.

Qualification

Experience
4. List names of licensed users. Reg./Licence No.

(use separate sheets where necessary)

PART "A" X-RAY EQUIPMENT

5. Identification:

Name of manufacturer

Model

Equipment control panel type

Serial No.

Tube head type

.....
Serial No.

Tube insert type

.....
Serial No.

6. Type of installation:

(a) fixed/mobile (b)
combine/radiographic/fluoroscopic/photofluoroscopic/sine
fluoroscopic/dental/other (specify)*

7. Rectification:

Single phase: self rectified/half wave rectified/full wave rectified

Three phase: six pulse/twelve pulse/constant potential, capacitor
energy
storage

8. For combined radiographic fluoroscopic:

Indicate whether with bucky radiographic/serial
radiographic/tomographic/
fluorescent screen/image intensifier with spot camera from 70mm/100mm or optical
viewer or television/cine camera for 16mm/35mm continuous operation/pulsed
operation* (specify) maximum frame speed

frames/second

9. Tube rating:

(a) For capacitor discharging equipment

Peak tube voltage

Max. quality charge coulombs

or condenser capacitor uf

(b) For pulsed equipment:

Peak tube voltage	kVp
Max. tube current	mA
Max. exposure time	sec. or
Max. tube current and exposure time	mAs

10. Filtration:

Inherent	mm Al equivalent
Added	mm Al equivalent
Total	mm Al equivalent

(Al = Aluminium)

11. Timer:

- (a) Built-in monitoring system/filter safety switch*
- (b) Automatic exposure control phototimer/ionizing type*

12. Tube Insert:

stationary anode/rotating anode* air cooled/oil cooled grid,
controlled/non-grid
controlled*

Fine focus

Broad focus

Heat storage capacity

Cooling rate

13. Mains voltage stabilization/tube voltage stabilization/tube current stabilization* specify voltage fluctuation in output

14. Collimation: cones/single-leaf/multi-leaf/applicator/light beam*

15. Directions in which exposure can be made:

One direction/two direction/multi directional (indicate directions in the drawing of premises)*

16. Intended use of device

17. Cost of device

(*delete whichever is inapplicable)

PART "B"

ACCELERATOR OR NEUTRON GENERATOR OR THERAPY MACHINE
(a separate form must be filled for each device).

18. Identification:

generator*/
therapy unit.

Electron accelerator/heavy particle accelerator/neutron

Type of machine

Name of manufacturer

Model Control

panel

Serial No.

Date of Manufacture

19. Operational Factors: to be completed for all accelerators and
neutron
generators.

Primary

Particle	Energy	Peak Average	Target	Target
Accelerated Range	Beam Current	Material	Thickens	

- (a)
- (b)
- (c)
- (d)

20. To be completed for therapy machines.

Energy Values	Related	Give	
of primary	given Secondary	Energy Values	Dose for
beam used	dose radiaton	of secondary	10 3 10 cm
for radiotherapy	rates produced	beam used	field
	field size	for	size

- (a)
- (b)

.....

29. Describe the purpose of which radiation material will be used (if by-product material is the form of a sealed source, include the make and the model number of the storage container and/or device in which the source will be stored/and/or used

30. Radiation protection:

Describe radiation protection general measures. Also submit leak testing procedures where applicable, arrangements for performing initial radiation survey, service maintenance and repair for source equipment

31. Radioactive waste management:

Submit detailed description of methods which will be used for disposing of radioactive wastes and estimates of the type and amount of activity involved

32. Declaration: I certify that all information contained in this application including any supplements attached hereto is true and correct to the best of my knowledge and belief.

Date

Signature of Applicant

Note: A fee is payable for Registration. A fee is payable for a licence annually.

REPUBLIC OF ZAMBIA

Licence RPS/L/1

Licence No.

Registration

The Radiation Protection Board

Ministry of Health

P.O. Box 30205

Lusaka

LICENCE AUTHORISING THE BEARER TO POSSESS OR USE RADIOACTIVE MATERIALS OR DEVICES

Dr/Mr/Mrs/Miss/Messrs

Title

Plot No. P.O.
Box

Premises
Street

TownDistrict

Province

is hereby licensed by the Radiation Protection Board to possess or use radiation devices or materials in accordance with Section 21 of the Ionizing Radiation Act and subject to the conditions imposed hereunder.

Chairman, Radiation Secretary, Radiation
Protection Board Protection Board

Condition of Licence:

1. This licence is valid from
to
2. The licensee is authorised to possess or use radioactive materials
or
devices listed below:

Holder

Date

Signature of

REPUBLIC OF ZAMBIA

Licence RPS/A/3

The Radiation Protection Board

Ministry of Health

P.O. Box 30205

Lusaka

For official use only

Licence No.

Reg. No.

Receipt No.

THE IONIZING RADIATION ACT, 1972

(Cap. 311)

APPLICATION FOR DISPOSAL OF RADIOACTIVE MATERIALS

1. Name and address of applicant

2. Title

3. Licence or Registration Certificate No.

4. Premises where source has been used

Plot No. Street

Town

Province

5. Describe the method of disposal (e.g. river, sewage, solid waste, tipping, burial, incineration, or other methods).

6. What radiation protection measures have been taken to ensure that disposal method do not alter existing

safety procedures and regulations?

7. To what extent will the disposal method affect the maximum permissible concentration of the disposal root

8. Identify the source to be disposed:

(a) Name of source Model

(b) Control panel type

..... Serial No.

(c) Others (specify)

Element and Mass Chemical/Activity Name of Model

No. of Rad. Physical Manufacturer/

Material Form No. Suppl.

9. I, certify that the information given above is correct and true.

Signature

Full name

Title

Exempted owners must possess a disposal licence.

REPUBLIC OF ZAMBIA

Licence No.

Reg. No.

Radiation Protection Board

Ministry of Health

P.O. Box 30205

Lusaka

IONIZING RADIATION ACT, 1972

(Cap. 311)

A LICENCE AUTHORIZING DISPOSAL OF RADIOACTIVE

Dr/Mr/Mrs/Miss/Messrs

of

Licensed or registered under

is authorized to dispose radioactive substances by the Radiation Protection Board under Section 21(1) of the Act and subject to the conditions laid hereunder.

Chairman, Radiation

Secretary, Radiation

Protection Board

Protection Board

Conditions of Licence:

1. This licence is valid from
to
2. The method of disposal is through solid waste/sewage/incineration/burial or confined storage*
3. The amount authorized for disposal is Bq.
4. The maximum permissible levels of concentration shall not exceed the limits set in the Radioactive Waste Management Regulations.
5. Others

Holder Date Signature of

REPUBLIC OF ZAMBIA

IONIZING RADIATION REGULATIONS, 1992

(Cap. 311)

APPLICATION FOR RADIATION PREMISES LICENCE

1. Name of owner
..... Tel. No.
2. Location of facility:
Name of Unit/Dept.
Place: Plot No./Vehicle No.
Area/Town Street
District Name of
Building Room(s)
Floor
3. Name of person responsible for radiation safety
4. Is this a new/renewal application?
5. Type of facility: Medical/industrial/school/research/others* specify
6. Classification of facility
7. Type of installation: Enclosed installation/open installation*
(a) Enclosed installation: with aid diagram of plan to be attached,
describe the appropriate facility or room with special reference to:
 - (i) Construction Material
 - (ii) Interlocks
 - (iii) Warning signals installed
 - (iv) Equipment layout
 - (v) Radiation shields
 - (vi) Fume holds

(vii) Remote handling equipment

(viii) Any other protective measures and devices

Note: Indicate in diagram or plan the directions in which exposure is possible.

(b) Open installation:

(i) State why an enclosed installation is not likely to be practicable

(ii) Indicate the distance from radiation source within which unauthorised

persons are not allowed to enter

(iii) Indicate positive measures taken to maintain this degree isolation

(iv) How will you ensure that radiation workers involved will be adequately

protected?

8. Enclose architectural drawings of the premises.

9. Declaration by owner:

I declare that the aforementioned is true and correct to the best of my knowledge and belief.

Date Signature of applicant

Note-A fee payable annually for a licence unless the applicant is exempted by the Board.

*Delete which ever is inapplicable.

REPUBLIC OF ZAMBIA

Licence No.

Reg. No.

Radiation Protection Board

Ministry of Health

P.O. Box 30205

Lusaka

THE IONIZING RADIATION REGULATIONS, 1972

(Cap. 311)

RADIATION PREMISES LICENCE

Name of Premises

Owner of Premises

Plot No. Street

Town Province

Postal Address

Department

is licensed by the Radiation Protection Board as premises for housing, storing and installation of radioactive materials or radiation devices in accordance with Section 21(1) of the Act subject to the conditions set hereunder.

Chairman, Radiation Secretary, Radiation

Protection Board Protection Board

Condition of Licence:

1. This licence is valid from
to

2. The facility is licensed for housing, storing, and installation of
(state specific type of device or material)

3. The owner named above shall comply with Section 22 of the Act.

Holder Date Signature of

REPUBLIC OF ZAMBIA

Form RPS/A/5

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Licence No.

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Receipt No.

Radiation Protection Board

Ministry of Health

P.O. Box 30205

Lusaka

THE IONIZING RADIATION ACT, 1972

(Cap. 311)

APPLICATION FOR MODIFICATION OF RADIATION PREMISES, MATERIAL OR DEVICE

1. Name of Applicant
2. Premises address
3. Title of applicant
4. Licence No.
5. Describe nature and extent of modification, if it is for facility
and
technical
drawings if for a device

6. What radiation protection measures have you taken to ensure that modifications do

not alter existing safety procedures and regulations?

7. To what extent will modification affect the workload of the equipment operation

within the facility?

8. Identify the device to be modified.

Model (a) Name of manufacturer

Serial No. (b) Control panel type

Serial No. (c) Tube insert type

(d) Type of therapy Unit

(e) Others (specify)

9. I, certify that the information given above is correct and true.

Signature

Full name

Title

Note: A fee is charged on this application to all institutions and persons.

REPUBLIC OF ZAMBIA

Licence No.

Reg. No.

Radiation Protection Board

Ministry of Health

P.O. Box 30205

Lusaka

THE IONIZING RADIATION ACT, 1972

(Cap. 311)

LICENCE AUTHORIZING MODIFICATION OF LICENSED RADIATION PREMISES, MATERIALS OR DEVICE

Dr/Mr/Mrs/Miss/Messrs

of
Licence No.

or Registration No,

is licensed by the Radiation Protection Board to modify the radiation premises, material or device in accordance with Section 21 of the Act and subject to the conditions imposed hereunder.

Chairman, Radiation Secretary, Radiation
Protection Board Protection Board

Conditions of Licence:

- 1. This licence is valid from
to
- 2. Specific area or part to be modified

For modification of the devices only registered installation service or maintenance personnel may make such modifications.

Date
Signature

REPUBLIC OF ZAMBIA

Form RPS/A/6

Radiation Protection Board For official use only

Ministry of Health Reg. No.

P.O. Box 30205 Licence

Lusaka Receipt No.

THE IONIZING RADIATION ACT, 1972

(Cap. 311)

APPLICATION FOR LICENCE TO SELL, LEASE, LOAN OR DEAL WITH RADIATION DEVICES OR RADIOACTIVE MATERIALS

1. Name of Applicant
2. Premises Address
3. Trade Licence No.
4. Type of radiation device or radioactive material you intend to sell, lease, loan, or deal with

5. Is the equipment new or old?

6. Name(s) of authorized installation, service or maintenance engineers/technologists

indicating their Reg. and Licence numbers

7. Is the application for a corporation or limited liability company/business

I, _____ certify that the information given in this application including any supplements attached thereto is true and correct to the best of my knowledge.

applicant Date Signature of

Note: A fee is payable annually for a licence.

REPUBLIC OF ZAMBIA

Form RPS/A/8

Radiation Protection Board For official use only.

Ministry of Health Licence No.

P.O. Box 30205 Reg. No.

Lusaka Receipt No.

THE IONIZING RADIATION ACT, 1972

(Cap. 311)

APPLICATION FOR LICENCE TO IMPORT/EXPORT* RADIATION DEVICES OR RADIOACTIVE MATERIALS

1. Name of Applicant
2. P.O. Box No. Plot No.
3. Street Town
4. District
Province
5. Purpose for which the device or material will be used
6. Valid Licence number of registration of the consignee (purchaser)
7. Give a list of all the devices or radioactive materials you intend to import/export
8. Give details of storage and transportation compliance with the regulations on safe handling, storage and transport of radioactive materials (enclose additional information on separate sheet if need be)

9. Give the estimated sale price of the total items

10. Declaration:

I, _____ certify that I have read and understood the Regulations published by the Board and information given above is the truth and correct..

Date Signature of applicant

Note: A fee is payable annually for the licence.

*Delete whichever is not applicable

REPUBLIC OF ZAMBIA

Licence No.

Reg. No.

Radiation Protection Board

Ministry of Health

P.O. Box 30205

Lusaka

THE IONIZING RADIATION ACT, 1972

(Cap. 311)

A LICENCE AUTHORIZING THE BEARER TO IMPORT/EXPORT* RADIATION DEVICES OR RADIOACTIVE MATERIALS

Dr/Mr/Mrs/Miss/Messrs

Box No. Plot No.

Street Town

District Province

is hereby licensed by the Radiation Protection Board to import/export* radiation devices or radioactive materials in accordance with Section 4 (e) of the Act and subject to the condition imposed hereunder.

Chairman, Radiation Secretary, Radiation

Protection Board Protection Board

Conditions of Licence:

1. Licence is valid from to
2. The licensee is authorized to import/export the following radiation source(s)
3. Others

Date Signature of Holder

*Delete whichever is not applicable

Holder Date Signature of

REPUBLIC OF ZAMBIA

Form RPS/A/9

For official use only.

Reg. No.

Licence No.

Receipt No.

Radiation Protection Board

Ministry of Health

P.O. Box 30205

Lusaka

THE IONIZING RADIATION ACT, 1972

(Cap. 311)

APPLICATION FOR LICENCE TO ADMINISTER IONIZING RADIATION TO PERSONS

1. Dr/Mr/Mrs/Miss/Messrs
2. Address
3. Plot and Street Nos of Residence
4. Place and date of birth
5. Nationality
6. Qualification and where and when obtained

7. Testimonials covering the period of experience

(photocopies should be supplied)

8. Is this new/renewal *application?

Date Signature of
applicant

Note: A fee is charged for the Licence.

*Delete where not applicable

REPUBLIC OF ZAMBIA

Licence No.

Reg. No.

Radiation Protection Board

Ministry of Health

P.O. Box 30205

Lusaka

THE IONIZING RADIATION ACT, 1972

(Cap. 311)

LICENCE TO ADMINISTER IONIZING RADIATION TO PERSONS

Dr/Mr/Mrs/Miss

of

Qualification

is licensed by the Radiation Protection Board to

Administer

ionizing radiation to persons as indicated:

x-rays/isotopes/electron generator/neutron generator for
therapeutic/diagnostic work at

(name of licensed facility) in accordance with the provisions of Section
21(1) of the Act.

Date Signature of
Holder

Chairman, Radiation Secretary, Radiation

Protection Board Protection Board

Conditions of Licence:

1. This licence is valid from
to

2. The licensee is authorised to administer ionizing radiation indicated above.

3. Others

*Delete where not applicable

REPUBLIC OF ZAMBIA

Form RPS/A/10

For official use only.

Reg. No.

Licence No.

Receipt No.

Radiation Protection Board

Ministry of Health

P.O. Box 30205

Lusaka

THE IONIZING RADIATION ACT, 1972

(Cap. 311)

APPLICATION TO INSTALL, SERVICE OR MAINTAIN RADIATION DEVICES OR RADIOACTIVE MATERIALS

1. Mr/Mrs/Miss/Messrs
2. Address
(include plot number, building, street, etc)
3. Place and date of birth
4. Nationality
5. Academic Qualification
6. Experience
7. Is this new/renewal application?

Date Signature of applicant

Note: A fee is charged for the licence.

REPUBLIC OF ZAMBIA

Licence No.

Reg. No.

Radiation Protection Board

Ministry of Health

P.O. Box 30205

Lusaka

THE IONIZING RADIATION ACT, 1972

(Cap. 311)

A LICENCE AUTHORIZING THE BEARER TO INSTALL, SERVICE OR MAINTAIN RADIATION DEVICES OR RADIOACTIVE MATERIALS

Name

of

Qualification

is licensed by the Radiation Protection Board to install, service or maintain radiation devices or radioactive materials in accordance with Section 21(1) of the Act and subject to the conditions imposed hereunder.

Conditions:

- 1. This licence is valid from
to
- 2. Others

Chairman, Radiation

Secretary, Radiation

Protection Service

Protection Service

Holder

Date

Signature of

REPUBLIC OF ZAMBIA

For official use only.

Licence No.

Reg. No.

Receipt No.

The Radiation Protection Board

Ministry of Health

P.O. Box 30205

Lusaka

THE IONIZING RADIATION ACT, 1972

(Cap. 311)

CERTIFICATE OF COMPLIANCE/ACCEPTANCE OF RADIATION PREMISES, DEVICE OR MATERIAL

This is to certify that the radiation premises/device/materials*

of

Licence No.

Owned by

Has on this day of

been inspected and found conforming with the Radiation Safety Regulations.

Chief Radiation Protection Officer

Holder Date Signature of

*Delete whichever is not applicable

REPUBLIC OF ZAMBIA

THE EXTERMINATION OF MOSQUITOES ACT

CHAPTER 312 OF THE LAWS OF ZAMBIA

CHAPTER 312 THE EXTERMINATION OF MOSQUITOES ACTCHAPTER 312

THE EXTERMINATION OF MOSQUITOES ACT

ARRANGEMENT OF SECTIONS

Section

1. Short title and application
2. Interpretation
3. Power to prescribe measures for extermination of mosquitoes
4. Duties of occupiers
5. Right of entry
6. Prosecution of measures on lands
7. Compensation
8. Penalties

SCHEDULE-Form of summons

CHAPTER 312

EXTERMINATION OF MOSQUITOES

An Act to prescribe measures for the extermination of mosquitoes; and to provide for matters incidental thereto.

[18th August, 1944]13 of 1944

2 of 1945

31 of 1949

55 of 1963

69 of 1965

24 of 1966

13 of 1994

Government Notices

291 of 1964

497 of 1964

1. This Act may be cited as the Extermination of Mosquitoes Act, and shall apply to every municipality, mine township and township and, if the Minister so directs, to any area within eight kilometres of the boundaries of a municipality or township and, if the Minister is satisfied that a source of infection to a populated area is situated outside such limit of eight kilometres, to the area in which such source is situated.

(As amended by No. 31 of 1949, G.N. No. 291 of 1964 and No. 69 of 1965)Short title and application

2. In this Act, unless the context otherwise requires-Interpretation