Authorised Version

Radiation Regulations 2017

S.R. No. 83/2017

TABLE OF PROVISIONS

Authorised Version

STATUTORY RULES 2017

S.R. No. 83/2017

Radiation Act 2005

Radiation Regulations 2017

The Governor in Council makes the following Regulations:

Dated: 8 August 2017

Responsible Minister:

JILL HENNESSY
Minister for Health

ANDREW ROBINSON
Clerk of the Executive Council

1 Objectives

The objectives of these Regulations are—

(a) to prescribe the activity concentration and activity of material that spontaneously emits ionising radiation and the prescribed circumstances for the purposes of the definition of radioactive material; and

(b) to prescribe radiation dose limits; and

(c) to prescribe the radiation sources that require a current certificate of compliance prior to use of the source; and

(d) to prescribe the date of expiry for certificates of compliance issued in respect of prescribed radiation sources; and

(e) to prescribe fees; and

(f) to prescribe other matters required to give effect to the **Radiation Act 2005**.

2 Authorising provision

These Regulations are made under section 139 of the **Radiation Act 2005**.

3 Commencement

These Regulations come into operation on 27 August 2017.

4 Revocations

The following Regulations are **revoked**—

(a) the Radiation Regulations 2007[1];

(b) the Radiation Amendment (Tanning Units and Fees) Regulations 2008[2].

5 Definitions

In these Regulations—

effective dose means the sum of the weighted equivalent doses in all the tissues and organs of the body and is determined by the formula—

$$E = \sum_{T} w_T H_T$$

where—

E is the effective dose;

$\mathbf{W_T}$ is the tissue weighting factor for tissue or organ T;

$\mathbf{H_T}$ is the equivalent dose in tissue or organ T;

equivalent dose means the absorbed dose averaged over a tissue or organ modified by the radiation weighting factor, W_R and is determined by the formula—

$$H_T = \sum_R W_R D_{T,R}$$

where—

H_T is the equivalent dose in tissue or organ T;

$D_{T,R}$ is the absorbed dose averaged over the tissue or organ T, due to radiation R;

medical exposure means—

(a) the receipt of a radiation dose by a patient during the course of, or for the purposes of, a diagnosis or treatment of an injury or illness of the patient; or

(b) an exposure of a person to an emission of radiation (other than occupational exposure) knowingly incurred by that person while supporting and comforting a patient receiving a radiation dose during the course of, or for the purposes of a diagnosis or treatment of, an injury or illness of the patient; or

(c) the receipt of a radiation dose by a volunteer during the course of medical research;

occupational exposure means the exposure to an emission of radiation of a person using a radiation source or directly conducting a radiation practice;

public exposure means the exposure of a person to an emission of radiation that is not occupational exposure or medical exposure;

the Act means the **Radiation Act 2005**.

6 Radioactive material—prescribed activity concentration and activity level for the purposes of the definition in section 3(1) of the Act

For the purposes of paragraphs (a) and (b)(i) of the definition of ***radioactive material*** in section 3(1) of the Act—

(a) the prescribed activity concentration for a material that is a radionuclide specified in Column 1 of Schedule 1 is the activity concentration specified in Column 2 of that Schedule opposite that radionuclide; and

(b) the prescribed activity for a material that is a radionuclide specified in Column 1 of Schedule 1 is the activity specified in Column 3 of that Schedule opposite that radionuclide.

7 Radioactive material—prescribed circumstances

For the purposes of paragraph (b)(ii) of the definition of ***radioactive material*** in section 3(1) of the Act, the prescribed circumstance is that there are 2 or more materials that are radionuclides specified in Column 1 of Schedule 1 occurring in combination and—

(a) the sum of the fractions obtained by dividing the activity concentration of each radionuclide present by the activity concentration specified in Column 2 of that Schedule opposite each radionuclide, is equal to, or exceeds, 1; and

(b) the sum of the fractions obtained by dividing the activity of each radionuclide present by the activity specified in Column 3 of that Schedule opposite each radionuclide is equal to, or exceeds, 1.

8 Prescribed identification document

(1) Subject to subregulation (2), for the purposes of the definition of ***identification document*** in section 3(1) of the Act, the prescribed document is at least one original document from each of the following categories of identity document—

(a) Category 1 of Schedule 2;

(b) Category 2 of Schedule 2;

(c) Category 3 of Schedule 2;

(d) Category 4 of Schedule 2.

(2) An identification document referred to in subregulation (1) is not required if the person produces—

(a) an Aviation Security Identification Card issued under the Aviation Transport Security Regulations 2005 of the Commonwealth; or

(b) a Maritime Security Identification Card issued under the Maritime Transport and Offshore Facilities Security Regulations 2003 of the Commonwealth.

Note

Under section 67A of the Act the Secretary may prepare guidelines for the purposes of Schedule 2.

9 Prescribed radiation facility

For the purposes of the definition of ***radiation facility*** in section 3(1) of the Act, a facility that is prescribed to be a radiation facility includes premises used or proposed to be used to house, possess, store or permit the use of any high

consequence sealed source or high consequence group of sealed sources.

10 Activity ratios for sealed sources—prescribed radionuclides

(1) For the purposes of section 3A of the Act, in relation to value **A** in the formula, the prescribed radionuclide is a radionuclide set out in Column 1 of the table in Schedule 3.

(2) For the purposes of section 3A of the Act, in relation to value **D** in the formula, the value specified for the prescribed radionuclide is the value set out in Column 2 of the table in Schedule 3 that is opposite to the radionuclide referred to in subregulation (1).

11 Radiation dose limits

(1) For the purposes of section 22(1) and (2) of the Act the prescribed radiation dose limit is—

(a) unless paragraph (c) applies, in the case of occupational exposure—the relevant limit specified in table A of Schedule 4; or

(b) in the case of public exposure—the relevant limit specified in table B of Schedule 4; or

(c) in the case of a pregnant woman using a radiation source or directly conducting a radiation practice who has notified the relevant management licence holder that she is pregnant—

(i) in relation to all parts of the woman's body except her uterus—the relevant limit specified in table A of Schedule 4; and

(ii) in relation to the woman's uterus—the relevant limit specified in table B of Schedule 4.

(2) In regulation 11(1)(c) ***relevant management licence holder*** means the management licence holder who conducts a radiation practice in relation to the radiation source—

(a) being used by the pregnant woman; or

(b) in relation to which the pregnant woman directly conducts the radiation practice.

12 Radiation sources

For the purposes of the definition of ***prescribed radiation source*** in section 24 of the Act, the prescribed radiation sources are the radiation sources that are used for human diagnostic purposes specified in Schedule 5.

13 Certificates of compliance

For the purposes of section 33 of the Act, the prescribed expiry date for a certificate issued in respect of a prescribed radiation source is the date specified in Column 2 of Schedule 6 opposite the prescribed radiation source specified in Column 1 of that Schedule.

14 Application for use licence—fee

For the purposes of section 38(c)(ii) of the Act, the prescribed fee for an application for a use licence is the sum of—

(a) the application processing component of 4·5 fee units; and

(b) if the application for a licence is for—

(i) one year—5 fee units; or

(ii) 2 years—9·5 fee units; or

(iii) 3 years—13·5 fee units.

15 Application for management licence—fee

(1) For the purposes of section 38(c)(ii) of the Act, the prescribed fee for an application for a management licence to possess one radiation source specified in Column 1 of Schedule 7 is the sum of—

(a) the application processing component of 9 fee units; and

(b) if the application is for the possession of that radiation source for—

(i) one year—the fee unit specified in Column 2 of Schedule 7 opposite that source; or

(ii) 2 years—the fee unit specified in Column 3 of Schedule 7 opposite that source; or

(iii) 3 years—the fee unit specified in Column 4 of Schedule 7 opposite that source.

(2) For the purposes of section 38(c)(ii) of the Act, the prescribed fee for an application for a management licence to possess more than one radiation source specified in Column 1 of Schedule 7 is the sum of—

(a) the application processing component of 9 fee units; and

(b) if the application is for the possession of those radiation sources for—

(i) one year—the sum of the fee units specified in Column 2 of Schedule 7 opposite each of those sources; or

(ii) 2 years—the sum of the fee units specified in Column 3 of Schedule 7 opposite each of those sources; or

(iii) 3 years—the sum of the fee units specified in Column 4 of Schedule 7 opposite each of those sources.

(3) For the purposes of section 38(c)(ii) of the Act, the prescribed fee for an application for a management licence to conduct a radiation practice (other than to possess a radiation source) is the sum of—

(a) the application processing component of 9 fee units; and

(b) if the application is for the conduct of that practice for—

(i) one year—10 fee units; or

(ii) 2 years—19 fee units; or

(iii) 3 years—27 fee units.

16 Application for a tester's approval—fee

For the purposes of section 38(c)(ii) of the Act, the prescribed fee for an application for a tester's approval is the sum of—

(a) the application processing component of 4·5 fee units; and

(b) if the application is for an approval for—

(i) one year—10 fee units; or

(ii) 2 years—19 fee units; or

(iii) 3 years—27 fee units.

17 Renewal of a use licence—fee

For the purposes of section 51(3)(b)(ii) of the Act, the prescribed fee for an application to renew a use licence is, if the application is for the renewal of that licence for—

(a) one year—5 fee units; or

(b) 2 years—9·5 fee units; or

(c) 3 years—13·5 fee units.

18 Renewal of a management licence—fee

(1) For the purposes of section 51(3)(b)(ii) of the Act, the prescribed fee for an application to renew a management licence to possess one radiation source specified in Column 1 of Schedule 7 is, if the application is for the renewal of that licence for—

(a) one year—the fee unit specified in Column 2 of Schedule 7 opposite that source; or

(b) 2 years—the fee unit specified in Column 3 of Schedule 7 opposite that source; or

(c) 3 years—the fee unit specified in Column 4 of Schedule 7 opposite that source.

(2) For the purposes of section 51(3)(b)(ii) of the Act, the prescribed fee for an application to renew a management licence to possess more than one radiation source specified in Column 1 of Schedule 7 is, if the application is for the renewal of that licence for—

(a) one year—the sum of the fee units specified in Column 2 of Schedule 7 opposite each of those sources; or

(b) 2 years—the sum of the fee units specified in Column 3 of Schedule 7 opposite each of those sources; or

(c) 3 years—the sum of the fee units specified in Column 4 of Schedule 7 opposite each of those sources.

(3) For the purposes of section 51(3)(b)(ii) of the Act, the prescribed fee for an application to renew a management licence to conduct a radiation practice (other than to possess a radiation source) is, if the application is for the renewal of that licence for—

(a) one year—10 fee units; or

(b) 2 years—19 fee units; or

(c) 3 years—27 fee units.

19 Renewal of a tester's approval—fee

For the purposes of section 51(3)(b)(ii) of the Act, the prescribed fee for the renewal of a tester's approval is, if the application for renewal of that approval is for—

(a) one year—10 fee units; or

(b) 2 years—19 fee units; or

(c) 3 years—27 fee units.

20 Refund of authority fee component if application refused or withdrawn

(1) The Secretary must refund the relevant authority fee component to an authority applicant if—

(a) the Secretary refuses to issue or renew the authority; or

(b) the authority applicant withdraws an application for the authority or renewal of the authority before the Secretary makes a decision whether to issue or renew the authority.

(2) In this regulation—

authority applicant means a person who applies for an authority under section 37 of the Act or a person who applies for the renewal of an authority under section 51 of the Act;

relevant authority fee component means—

(a) in the case of an application for a use licence—the relevant fee specified in regulation 14(b);

(b) in the case of an application for a management licence to possess one radiation source—the relevant fee specified in regulation 15(1)(b);

(c) in the case of an application for a management licence to possess more than one radiation source—the relevant fee specified in regulation 15(2)(b);

(d) in the case of an application for a management licence to conduct a radiation practice (other than to possess a radiation source)—the relevant fee specified in regulation 15(3)(b);

(e) in the case of an application for a tester's approval—the relevant fee specified in regulation 16(b);

(f) in the case of an application to renew a use licence—the relevant fee specified in regulation 17;

(g) in the case of an application to renew a management licence to possess one radiation source—the relevant fee specified in regulation 18(1);

(h) in the case of an application to renew a management licence to possess more than one radiation source—the relevant fee specified in regulation 18(2);

(i) in the case of an application to renew a management licence to conduct a radiation practice (other than to possess

a radiation source)—the relevant fee specified in regulation 18(3);

(j) in the case of an application to renew a tester's approval—the relevant fee specified in regulation 19.

21 Secretary may reduce, waive or refund payment of application for use licence fee

The Secretary may do any of the following in relation to the application processing component of the prescribed fee referred to in regulation 14(a)—

(a) reduce the fee;

(b) waive the fee;

(c) refund payment of the fee in whole or in part.

22 Review of approved security plans

For the purposes of section 67F(2)(c) of the Act, a prescribed amendment to the approved security plan is any of the following—

(a) an amendment to the security plan that has no material impact on the security plan;

(b) an amendment to the security plan—

(i) that is required due to periodic and routine replacement of the sealed source or sealed source apparatus; and

(ii) that only amends the information used to identify the sealed source or sealed source apparatus; including—

(A) name of manufacturer; and

(B) description of the item of equipment; and

(C) serial number; and

(D) measured activity and date of measurement; and

(E) special form number; and

(F) date of expiry of special form.

Schedule 1—Activity concentrations and activities of radionuclides

Regulations 6, 7

Column 1	*Column 2*	*Column 3*
Radionuclide	*Activity Concentration (Bq/g)*	*Activity (Bq)*
H-3 (tritiated compounds, including OBT)	1×10^6	1×10^9
H-3 (elemental)	1×10^6	1×10^9
Be-7	1×10^3	1×10^7
C-11	1×10^1	1×10^6
C-14	1×10^4	1×10^7
N-13	1×10^2	1×10^9
0-15	1×10^2	1×10^9
F-18	1×10^1	1×10^6
Na-22	1×10^1	1×10^6
Na-24	1×10^1	1×10^5
Mg-28	1×10^1	1×10^5
Si-31	1×10^3	1×10^6
P-32	1×10^3	1×10^5
P-33	1×10^5	1×10^8
S-35	1×10^5	1×10^8
Cl-36	1×10^4	1×10^6
Cl-38	1×10^1	1×10^5
Ar-37	1×10^6	1×10^8
Ar-41	1×10^2	1×10^9
K-40	1×10^2	1×10^6
K-42	1×10^2	1×10^6
K-43	1×10^1	1×10^6

Schedule 1—Activity concentrations and activities of radionuclides

Column 1	*Column 2*	*Column 3*
Radionuclide	*Activity Concentration (Bq/g)*	*Activity (Bq)*
Ca-45	1×10^4	1×10^7
Ca-47	1×10^1	1×10^6
Sc-46	1×10^1	1×10^6
Sc-47	1×10^2	1×10^6
Sc-48	1×10^1	1×10^5
V-48	1×10^1	1×10^5
Cr-51	1×10^3	1×10^7
Mn-51	1×10^1	1×10^5
Mn-52	1×10^1	1×10^5
Mn-52m	1×10^1	1×10^5
Mn-53	1×10^4	1×10^9
Mn-54	1×10^1	1×10^6
Mn-56	1×10^1	1×10^5
Fe-52	1×10^1	1×10^6
Fe-55	1×10^4	1×10^6
Fe-59	1×10^1	1×10^6
Co-55	1×10^1	1×10^6
Co-56	1×10^1	1×10^5
Co-57	1×10^2	1×10^6
Co-58	1×10^1	1×10^6
Co-58m	1×10^4	1×10^7
Co-60	1×10^1	1×10^5
Co-60m	1×10^3	1×10^6
Co-61	1×10^2	1×10^6
Co-62m	1×10^1	1×10^5
Ni-59	1×10^4	1×10^8
Ni-63	1×10^5	1×10^8

Schedule 1—Activity concentrations and activities of radionuclides

Column 1	*Column 2*	*Column 3*
Radionuclide	*Activity Concentration (Bq/g)*	*Activity (Bq)*
Ni-65	1×10^{1}	1×10^{6}
Cu-64	1×10^{2}	1×10^{6}
Cu-67	1×10^{2}	1×10^{6}
Zn-65	1×10^{1}	1×10^{6}
Zn-69	1×10^{4}	1×10^{6}
Zn-69m	1×10^{2}	1×10^{6}
Ga-67	1×10^{2}	1×10^{6}
Ga-72	1×10^{1}	1×10^{5}
Ge-68	1×10^{1}	1×10^{5}
Ge-71	1×10^{4}	1×10^{8}
As-73	1×10^{3}	1×10^{7}
As-74	1×10^{1}	1×10^{6}
As-76	1×10^{2}	1×10^{5}
As-77	1×10^{3}	1×10^{6}
Se-73	1×10^{1}	1×10^{6}
Se-75	1×10^{2}	1×10^{6}
Br-75	1×10^{1}	1×10^{6}
Br-76	1×10^{1}	1×10^{5}
Br-82	1×10^{1}	1×10^{6}
Kr-74	1×10^{2}	1×10^{9}
Kr-76	1×10^{2}	1×10^{9}
Kr-77	1×10^{2}	1×10^{9}
Kr-79	1×10^{3}	1×10^{5}
Kr-81	1×10^{4}	1×10^{7}
Kr-83m	1×10^{5}	1×10^{12}
Kr-85	1×10^{5}	1×10^{4}
Kr-85m	1×10^{3}	1×10^{10}

Schedule 1—Activity concentrations and activities of radionuclides

Column 1 *Radionuclide*	*Column 2* *Activity Concentration (Bq/g)*	*Column 3* *Activity (Bq)*
Kr-87	1×10^2	1×10^9
Kr-88	1×10^2	1×10^9
Rb-81	1×10^1	1×10^6
Rb-86	1×10^2	1×10^5
Sr-85	1×10^2	1×10^6
Sr-85m	1×10^2	1×10^7
Sr-87m	1×10^2	1×10^6
Sr-89	1×10^3	1×10^6
Sr-90[a]	1×10^2	1×10^4
Sr-91	1×10^1	1×10^5
Sr-92	1×10^1	1×10^6
Y-88	1×10^1	1×10^6
Y-90	1×10^3	1×10^5
Y-91	1×10^3	1×10^6
Y-91m	1×10^2	1×10^6
Y-92	1×10^2	1×10^5
Y-93	1×10^2	1×10^5
Zr-93[a]	1×10^3	1×10^7
Zr-95	1×10^1	1×10^6
Zr-97[a]	1×10^1	1×10^5
Nb-93m	1×10^4	1×10^7
Nb-94	1×10^1	1×10^6
Nb-95	1×10^1	1×10^6
Nb-97	1×10^1	1×10^6
Nb-98	1×10^1	1×10^5
Mo-90	1×10^1	1×10^6
Mo-93	1×10^3	1×10^8

Schedule 1—Activity concentrations and activities of radionuclides

Column 1	*Column 2*	*Column 3*
Radionuclide	*Activity Concentration (Bq/g)*	*Activity (Bq)*
Mo-99	1×10^2	1×10^6
Mo-101	1×10^1	1×10^6
Tc-95m	1×10^1	1×10^6
Tc-96	1×10^1	1×10^6
Tc-96m	1×10^3	1×10^7
Tc-97	1×10^3	1×10^8
Tc-97m	1×10^3	1×10^7
Tc-99	1×10^4	1×10^7
Tc-99m	1×10^2	1×10^7
Ru-97	1×10^2	1×10^7
Ru-103	1×10^2	1×10^6
Ru-105	1×10^1	1×10^6
Ru-106[a]	1×10^2	1×10^5
Rh-103m	1×10^4	1×10^8
Rh-105	1×10^2	1×10^7
Pd-103	1×10^3	1×10^8
Pd-109	1×10^3	1×10^6
Ag-105	1×10^2	1×10^6
Ag-108m	1×10^1	1×10^6
Ag-110m	1×10^1	1×10^6
Ag-111	1×10^3	1×10^6
Cd-109	1×10^4	1×10^6
Cd-115	1×10^2	1×10^6
Cd-115m	1×10^3	1×10^6
In-111	1×10^2	1×10^6
In-113m	1×10^2	1×10^6
In-114m	1×10^2	1×10^6

Schedule 1—Activity concentrations and activities of radionuclides

Column 1	*Column 2*	*Column 3*
Radionuclide	*Activity Concentration (Bq/g)*	*Activity (Bq)*
In-115m	1×10^2	1×10^6
Sn-113	1×10^3	1×10^7
Sn-117m	1×10^2	1×10^6
Sn-121	1×10^5	1×10^7
Sn-125	1×10^2	1×10^5
Sb-122	1×10^2	1×10^4
Sb-124	1×10^1	1×10^6
Sb-125	1×10^2	1×10^6
Te-123m	1×10^2	1×10^7
Te-125m	1×10^3	1×10^7
Te-127	1×10^3	1×10^6
Te-127m	1×10^3	1×10^7
Te-129	1×10^2	1×10^6
Te-129m	1×10^3	1×10^6
Te-131	1×10^2	1×10^5
Te-131m	1×10^1	1×10^6
Te-132	1×10^2	1×10^7
Te-133	1×10^1	1×10^5
Te-133m	1×10^1	1×10^5
Te-134	1×10^1	1×10^6
I-123	1×10^2	1×10^7
I-124	1×10^1	1×10^6
I-125	1×10^3	1×10^6
I-126	1×10^2	1×10^6
I-129	1×10^2	1×10^5
I-130	1×10^1	1×10^6
I-131	1×10^2	1×10^6

Schedule 1—Activity concentrations and activities of radionuclides

Column 1	*Column 2*	*Column 3*
Radionuclide	*Activity Concentration (Bq/g)*	*Activity (Bq)*
I-132	1×10^{1}	1×10^{5}
I-133	1×10^{1}	1×10^{6}
I-134	1×10^{1}	1×10^{5}
I-135	1×10^{1}	1×10^{6}
Xe-131m	1×10^{4}	1×10^{4}
Xe-133	1×10^{3}	1×10^{4}
Xe-135	1×10^{3}	1×10^{10}
Cs-129	1×10^{2}	1×10^{5}
Cs-131	1×10^{3}	1×10^{6}
Cs-132	1×10^{1}	1×10^{5}
Cs-134m	1×10^{3}	1×10^{5}
Cs-134	1×10^{1}	1×10^{4}
Cs-135	1×10^{4}	1×10^{7}
Cs-136	1×10^{1}	1×10^{5}
Cs-137[a]	1×10^{1}	1×10^{4}
Cs-138	1×10^{1}	1×10^{4}
Ba-131	1×10^{2}	1×10^{6}
Ba-133	1×10^{2}	1×10^{6}
Ba-140[a]	1×10^{1}	1×10^{5}
La-140	1×10^{1}	1×10^{5}
Ce-139	1×10^{2}	1×10^{6}
Ce-141	1×10^{2}	1×10^{7}
Ce-143	1×10^{2}	1×10^{6}
Ce-144[a]	1×10^{2}	1×10^{5}
Pr-142	1×10^{2}	1×10^{5}
Pr-143	1×10^{4}	1×10^{6}
Nd-147	1×10^{2}	1×10^{6}

Schedule 1—Activity concentrations and activities of radionuclides

Column 1	*Column 2*	*Column 3*
Radionuclide	*Activity Concentration (Bq/g)*	*Activity (Bq)*
Nd-149	1×10^2	1×10^6
Pm-147	1×10^4	1×10^7
Pm-149	1×10^3	1×10^6
Sm-147	1×10^1	1×10^4
Sm-151	1×10^4	1×10^8
Sm-153	1×10^2	1×10^6
Eu-152	1×10^1	1×10^6
Eu-152m	1×10^2	1×10^6
Eu-154	1×10^1	1×10^6
Eu-155	1×10^2	1×10^7
Gd-153	1×10^2	1×10^7
Gd-159	1×10^3	1×10^6
Tb-160	1×10^1	1×10^6
Dy-165	1×10^3	1×10^6
Dy-166	1×10^3	1×10^6
Ho-166	1×10^3	1×10^5
Ho-166m	1×10^1	1×10^6
Er-161	1×10^1	1×10^6
Er-169	1×10^4	1×10^7
Er-171	1×10^2	1×10^6
Tm-170	1×10^3	1×10^6
Tm-171	1×10^4	1×10^8
Yb-169	1×10^2	1×10^7
Yb-175	1×10^3	1×10^7
Lu-177	1×10^3	1×10^7
Hf-181	1×10^1	1×10^6
Ta-182	1×10^1	1×10^4

Schedule 1—Activity concentrations and activities of radionuclides

Column 1	*Column 2*	*Column 3*
Radionuclide	*Activity Concentration (Bq/g)*	*Activity (Bq)*
W-181	1×10^3	1×10^7
W-185	1×10^4	1×10^7
W-187	1×10^2	1×10^6
W-188	1×10^2	1×10^5
Re-186	1×10^3	1×10^6
Re-188	1×10^2	1×10^5
Os-185	1×10^1	1×10^6
Os-191	1×10^2	1×10^7
Os-191m	1×10^3	1×10^7
Os-193	1×10^2	1×10^6
Ir-190	1×10^1	1×10^6
Ir-192	1×10^1	1×10^4
Ir-194	1×10^2	1×10^5
Pt-191	1×10^2	1×10^6
Pt-193m	1×10^3	1×10^7
Pt-197	1×10^3	1×10^6
Pt-197m	1×10^2	1×10^6
Au-198	1×10^2	1×10^6
Au-199	1×10^2	1×10^6
Hg-195m	1×10^2	1×10^6
Hg-197	1×10^2	1×10^7
Hg-197m	1×10^2	1×10^6
Hg-203	1×10^2	1×10^5
Tl-200	1×10^1	1×10^6
Tl-201	1×10^2	1×10^6
Tl-202	1×10^2	1×10^6
Tl-204	1×10^4	1×10^4

Schedule 1—Activity concentrations and activities of radionuclides

Column 1	*Column 2*	*Column 3*
Radionuclide	*Activity Concentration (Bq/g)*	*Activity (Bq)*
Pb-203	1×10^{2}	1×10^{6}
Pb-210[a]	1×10^{1}	1×10^{4}
Pb-212[a]	1×10^{1}	1×10^{5}
Bi-206	1×10^{1}	1×10^{5}
Bi-207	1×10^{1}	1×10^{6}
Bi-210	1×10^{3}	1×10^{6}
Bi-212[a]	1×10^{1}	1×10^{5}
Bi-213	1×10^{2}	1×10^{6}
Po-203	1×10^{1}	1×10^{6}
Po-205	1×10^{1}	1×10^{6}
Po-207	1×10^{1}	1×10^{6}
Po-210	1×10^{1}	1×10^{4}
At-211	1×10^{3}	1×10^{7}
Rn-220[a]	1×10^{4}	1×10^{7}
Rn-222[a]	1×10^{1}	1×10^{8}
Ra-223[a]	1×10^{2}	1×10^{5}
Ra-224[a]	1×10^{1}	1×10^{5}
Ra-225	1×10^{2}	1×10^{5}
Ra-226[a]	1×10^{1}	1×10^{4}
Ra-227	1×10^{2}	1×10^{6}
Ra-228[a]	1×10^{1}	1×10^{5}
Ac-225	1×10^{1}	1×10^{4}
Ac-227	1×10^{-1}	1×10^{3}
Ac-228	1×10^{1}	1×10^{6}
Th-226[a]	1×10^{3}	1×10^{7}
Th-227	1×10^{1}	1×10^{4}
Th-228[a]	1×10^{0}	1×10^{4}

Schedule 1—Activity concentrations and activities of radionuclides

Column 1	*Column 2*	*Column 3*
Radionuclide	*Activity Concentration (Bq/g)*	*Activity (Bq)*
Th-229[a]	1×10^0	1×10^3
Th-230	1×10^0	1×10^4
Th-231	1×10^3	1×10^7
Th-nat (incl. Th-232)	1×10^0	1×10^3
Th-234[a]	1×10^3	1×10^5
Pa-230	1×10^1	1×10^6
Pa-231	1×10^0	1×10^3
Pa-233	1×10^2	1×10^7
U-230[a]	1×10^1	1×10^5
U-231	1×10^2	1×10^7
U-232[a]	1×10^0	1×10^3
U-233	1×10^1	1×10^4
U-234	1×10^1	1×10^4
U-235[a]	1×10^1	1×10^4
U-236	1×10^1	1×10^4
U-237	1×10^2	1×10^6
U-238[a]	1×10^1	1×10^4
U-nat	1×10^0	1×10^3
U-239	1×10^2	1×10^6
U-240	1×10^3	1×10^7
U-240[a]	1×10^1	1×10^6
Np-237[a]	1×10^0	1×10^3
Np-239	1×10^2	1×10^7
Np-240	1×10^1	1×10^6
Pu-234	1×10^2	1×10^7
Pu-235	1×10^2	1×10^7
Pu-236	1×10^1	1×10^4

Schedule 1—Activity concentrations and activities of radionuclides

Column 1	*Column 2*	*Column 3*
Radionuclide	*Activity Concentration (Bq/g)*	*Activity (Bq)*
Pu-237	1×10^3	1×10^7
Pu-238	1×10^0	1×10^4
Pu-239	1×10^0	1×10^4
Pu-240	1×10^0	1×10^3
Pu-241	1×10^2	1×10^5
Pu-242	1×10^0	1×10^4
Pu-243	1×10^3	1×10^7
Pu-244	1×10^0	1×10^4
Am-241	1×10^0	1×10^4
Am-242	1×10^3	1×10^6
Am-242m[a]	1×10^0	1×10^4
Am-243[a]	1×10^0	1×10^3
Cm-242	1×10^2	1×10^5
Cm-243	1×10^0	1×10^4
Cm-244	1×10^1	1×10^4
Cm-245	1×10^0	1×10^3
Cm-246	1×10^0	1×10^3
Cm-247	1×10^0	1×10^4
Cm-248	1×10^0	1×10^3
Bk-249	1×10^3	1×10^6
Cf-246	1×10^3	1×10^6
Cf-248	1×10^1	1×10^4
Cf-249	1×10^0	1×10^3
Cf-250	1×10^1	1×10^4
Cf-251	1×10^0	1×10^3
Cf-252	1×10^1	1×10^4
Cf-253	1×10^2	1×10^5

Schedule 1—Activity concentrations and activities of radionuclides

Column 1	*Column 2*	*Column 3*
Radionuclide	*Activity Concentration (Bq/g)*	*Activity (Bq)*
Cf-254	1×10^0	1×10^3
Es-253	1×10^2	1×10^5
Es-254	1×10^1	1×10^4
Es-254m	1×10^2	1×10^6
Fm-254	1×10^4	1×10^7
Fm-255	1×10^3	1×10^6
Alpha-emitting radionuclide not mentioned in this Table	1×10^0	1×10^3
Radionuclide that is not alpha-emitting and not mentioned in this Table	1×10^1	1×10^4

[a] The levels given in this Schedule for the following radionuclides are for the parent radionuclides, which are assumed to be in secular equilibrium with the progeny listed below—

Parent	*Progeny*
Sr-80	Rb-80
Sr-90	Y-90
Zr-93	Nb-93m
Zr-97	Nb-97
Ru-106	Rh-106
Ag-108m	Ag-108
Cs-137	Ba-137m
Ce-134	La-134
Ce-144	Pr-144
Ba-140	La-140
Bi-212	TI-208 (0·36), Po-212 (0·64)

Parent	*Progeny*
Pb-210	Bi-210, Po-210
Pb-212	Bi-212, TI-208 (0·36), Po-212 (0·64)
Rn-220	Po-216
Rn-222	Po-218, Pb-214, Bi-214, Po-214
Ra-223	Rn-219, Po-215, Pb-211, Bi-211, TI-207
Ra-224	Rn-220, Po-216, Pb-12, Bi-212, TI-208 (0·36), Po-212 (0·64)
Ra-226	Rn-222, Po-218, Pb-214, Bi-214, Po-214, Pb-210, Bi-210, Po-210
Ra-228	Ac-228
Th-226	Ra-222, Rn-218, Po-214
Th-228	Ra-224, Rn-220, Po-216, Pb-212, Bi-212, TI-208 (0·36), Po-212 (0·64)
Th-229	Ra-225, Ac-225, Fr-221, At-217, Bi-213, Po-213, Pb-209
Th-nat (incl. Th-232)	Ra-228, Ac-228, Th-228, Ra-224, Rn-220, Po-216, Pb-212, Bi-212, TI-208 (0·36), Po-212 (0·64)
Th-234	Pa-234m
U-230	Th-226, Ra-222, Rn-218, Po-214
U-232	Th-228, Ra-224, Rn-220, Po-216, Pb-212, Bi-212, TI-208 (0·36), Po-212 (0·64)
U-235	Th-231
U-238	Th-234, Pa-234m
U-nat	Th-234, Pa-234m, U-234, Th-230, Ra-226, Rn-222, Po-218, Pb-214, Bi-214, Po-214, Pb-210, Bi-210, Po-210
U-240	Np-240m

Parent	*Progeny*
Np-237	Pa-233
Am-242m	Am-242
Am-243	Np-239

Schedule 2—Identification documents

Regulation 8

Column 1 *Item number*	*Column 2* *Category 1 identification document*	*Column 3* *Category 2 identification document*	*Column 4* *Category 3 identification document*	*Column 5* *Category 4 identification document*
1	Australian birth certificate	Current Australian passport or foreign passport	Current Medicare card	Current gas, water or electricity account issued within the previous 6 months
2	Current foreign passport (other than New Zealand) and visa issued by the Commonwealth	Current motor vehicle (including motorcycle) licence issued under the **Road Safety Act 1986** or a licence issued by another State or a Territory that is the equivalent of a driver/ motorcycle licence	Change of name certificate	Current local rates or land valuation notice issued within the previous 6 months
3	Certificate of Australian citizenship	Current licence issued under the **Firearms Act 1996**	Current signed credit or debit card or account card from a bank, building society or credit union or a passbook or account statement	Current lease or rental agreement

Column 1 *Item number*	*Column 2* *Category 1 identification document*	*Column 3* *Category 2 identification document*	*Column 4* *Category 3 identification document*	*Column 5* *Category 4 identification document*
4	Current New Zealand passport	Current proof of age card issued under the **Liquor Control Reform Act 1998** or a card issued by another State or a Territory that is the equivalent of a proof of age card	Current student identity card or a certificate or statement of enrolment from an Australian tertiary educational institution issued within the previous 6 months	Current tenancy agreement under the **Residential Tenancies Act 1997**
5			Private security individual operator licence issued under the **Private Security Act 2004**	Current written agreement evidencing right of occupancy of residential premises
6			Australian marriage certificate	
7			Health care card, pensioner concession card or seniors health card issued by the Commonwealth	

Schedule 3—Activity ratios for sealed sources—prescribed radionuclide values

Regulation 10

Column 1	*Column 2*
	Value specified for the prescribed radionuclide—
Prescribed radionuclide	*D-value Activity Level (GBq)*
Americium-241	60
Americium-241/Beryllium	60
Cadmium-109	2×10^4
Caesium-137	100
Californium-252	20
Cobalt-57	700
Cobalt-60	30
Curium-244	50
Gadolinium-153	1×10^3
Germanium-68	700
Gold-198	200
Iodine-125	200
Iodine-131	200
Iridium-192	80
Iron-55	8×10^5
Krypton-85	3×10^4
Molybdenum-99	300
Nickel-63	6×10^4
Palladium-103	9×10^4
Phosphorus-32	1×10^4
Plutonium-238	60
Plutonium-239/Beryllium	60
Polonium-210	60

Schedule 3—Activity ratios for sealed sources—prescribed radionuclide values

Column 1	*Column 2*
	Value specified for the prescribed radionuclide—
Prescribed radionuclide	*D-value Activity Level (GBq)*
Promethium-147	4×10^4
Radium-226	40
Ruthenium-106 (Rhodium-106)	300
Selenium-75	200
Strontium-90 (Yttrium-90)	1×10^3
Technetium-99m	700
Thallium-204	2×10^4
Thulium-170	2×10^4
Tritium (H-3)	2×10^6
Ytterbium-169	300

Schedule 4—Radiation dose limits

Regulation 11

Table A—Ionising radiation dose limits for occupational exposure

Circumstance	*Dose limit*
Receipt of ionising radiation doses in any 60 month period	Effective dose of 100 millisievert
Receipt of ionising radiation doses in any 12 month period	Effective dose of 50 millisievert
Receipt of ionising radiation to the lens of an eye of a person in any 60 month period	Equivalent dose of 100 millisievert
Receipt of ionising radiation to the lens of an eye of a person in any 12 month period	Equivalent dose of 50 millisievert
Receipt of ionising radiation to the skin of a person in any 12 month period	Equivalent dose of 500 millisievert averaged over 1 cm^2 of any part of the skin regardless of the total area exposed
Receipt of ionising radiation to the hands and feet of a person in any 12 month period	Equivalent dose of 500 millisievert

Table B—Ionising radiation dose limits for public exposure

Circumstance	*Dose limit*
Receipt of ionising radiation doses in any 12 month period	Effective dose of 1 millisievert
Receipt of ionising radiation to the lens of an eye of a person in any 12 month period	Equivalent dose of 15 millisievert
Receipt of ionising radiation to the skin of a person in any 12 month period	Equivalent dose of 50 millisievert averaged over 1 cm^2 of any part of the skin regardless of the total area exposed

Schedule 5—Prescribed radiation sources used for human diagnostic purposes

Regulation 12

Plain Radiographic X-ray equipment

Fluoroscopic X-ray equipment

Computed Tomographic Scanners

Mammographic X-ray equipment

Schedule 6—Certificates of compliance

Regulation 13

Column 1 *Radiation Source Type (used for human diagnostic purposes)*	*Column 2* *Date of expiry*
Plain Radiographic X-ray equipment	2 years after issue
Fluoroscopic X-ray equipment	2 years after issue
Computed Tomographic Scanners	12 months after issue
Mammographic X-ray equipment	12 months after issue

Schedule 7—Possession of radiation sources licence fees

Regulations 15, 18

Column 1 *Radiation source*	*Column 2* *1 year licence*	*Column 3* *2 year licence*	*Column 4* *3 year licence*
Possession of any of the following— • Dental intra-oral X-ray unit; • Dental Panoramic X-ray unit; • Cephalometric X-ray unit; • Mobile medical plain X-ray unit; • Bone Densitometry (DEXA) unit; • Veterinary X-ray unit; • X-ray gauge; • Cabinet X-ray equipment; • Enclosed X-ray analysis unit; • Other ionising radiation apparatus not specified in this Schedule.	10 fee units for each radiation source	19 fee units for each radiation source	27 fee units for each radiation source

Column 1 *Radiation source*	*Column 2* *1 year licence*	*Column 3* *2 year licence*	*Column 4* *3 year licence*
Possession of any of the following ionising radiation apparatus— • Industrial radiography X-ray unit; • Fixed medical plain X-ray unit; • Mammographic X-ray unit; • Non-enclosed X-ray analysis unit; • Chiropractic X-ray unit; • Fluoroscopic X-ray unit; • Medical therapy simulator; • X-ray therapy unit; • Dental 3D volumetric X-ray unit.	20 fee units per apparatus	38 fee units per apparatus	54 fee units per apparatus
Possession of any of the following ionising radiation apparatus— • Computed tomographic unit; • Cyclotron; • Linear or Particle accelerator.	40 fee units per apparatus	76 fee units per apparatus	108 fee units apparatus

Schedule 7—Possession of radiation sources licence fees

Column 1 *Radiation source*	*Column 2* *1 year licence*	*Column 3* *2 year licence*	*Column 4* *3 year licence*
Possession of sealed source with activity less than or equal to 40 MBq	5 fee units per source	9·5 fee units per source	13·5 fee units per source
Possession of sealed source with activity greater than 40 MBq but less than or equal to 40 GBq	10 fee units per source	19 fee units per source	27 fee units per source
Possession of sealed source with activity greater than 40 GBq but less than or equal to 400 GBq	20 fee units per source	38 fee units per source	54 fee units per source
Possession of sealed source with activity greater than 400 GBq	40 fee units per source	76 fee units per source	108 fee units per source
Possession of sealed source apparatus containing radioactive material with a total activity less than or equal to 40 MBq	5 fee units per apparatus	9·5 fee units per apparatus	13·5 fee units per apparatus
Possession of sealed source apparatus containing radioactive material with a total activity greater than 40 MBq but less than or equal to 40 GBq	10 fee units per apparatus	19 fee units per apparatus	27 fee units per apparatus

Schedule 7—Possession of radiation sources licence fees

Column 1 *Radiation source*	*Column 2* *1 year licence*	*Column 3* *2 year licence*	*Column 4* *3 year licence*
Possession of sealed source apparatus containing radioactive material with a total activity greater than 40 GBq but less than or equal to 400 GBq	20 fee units per apparatus	38 fee units per apparatus	54 fee units per apparatus
Possession of sealed source apparatus containing radioactive material with a total activity greater than 400 GBq	40 fee units per apparatus	76 fee units per apparatus	108 fee units per apparatus
Possession of radioactive material with a total activity of less than or equal to 40 GBq	10 fee units	19 fee units	27 fee units
Possession of radioactive material with a total activity of less than or equal to 400 GBq	20 fee units	38 fee units	54 fee units
Possession of radioactive material with a total activity of greater than 400 GBq	40 fee units	76 fee units	108 fee units

Endnotes

[1] Reg. 4(a): S.R. No. 89/2007 as amended by S.R. Nos 148/2007 and 167/2008.

[2] Reg. 4(b): S.R. No. 167/2008.

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Fee Units

These Regulations provide for fees by reference to fee units within the meaning of the **Monetary Units Act 2004**.

The amount of the fee is to be calculated, in accordance with section 7 of that Act, by multiplying the number of fee units applicable by the value of a fee unit.

The value of a fee unit for the financial year commencing 1 July 2017 is $14.22. The amount of the calculated fee may be rounded to the nearest 10 cents.

The value of a fee unit for future financial years is to be fixed by the Treasurer under section 5 of the **Monetary Units Act 2004**. The value of a fee unit for a financial year must be published in the Government Gazette and a Victorian newspaper before 1 June in the preceding financial year.