Radiation Control Regulation 1993

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See alsoStatute Law (Miscellaneous Provisions) Bill (No 2) 2002

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Radiation Control Regulation 1993



Contents

Part 1 Preliminary	5
1 Name of Regulation	5
2 Commencement	5
3 Definitions	5
4 Definition of "radioactive ore" (sec 4)	6
5 Definition of "radioactive substance" (sec 4)	7
6 Safe dose limits to be taken into account by Authority	7
Part 2 Licensing, registration and accreditation	8
7 Exemptions from sec 6 licensing requirements for certain radiation apparatus etc	8
8 Exemptions from sec 6 licensing requirements for certain persons	8
9 (Repealed)	10
10 Registration of certain sealed radioactive sources	10
10A Registration of certain radiation apparatus	10
10B Requirements for registration of radiation apparatus	10
11 Consulting radiation experts	11
12 Fees	12
12A Waiver of fees	13
Part 3 Radiation safety	13
Division 1 Radiation safety in the workplace	13
13 Duty to inform occupationally exposed persons	13
14 Radiation safety manual	13

Division 2 Radiation monitoring	14
15 Personal monitoring devices	14
16 Personal radiation exposure record	14
17 Area monitoring devices	16
18 Maintenance of monitoring devices	16
19 Records to be kept of monitoring equipment	16
Division 3 Voluntary exposure to radiation for scientific or research purposes	1
	16
20 Voluntary exposure to radiation for scientific or research purposes	17
Division 4 Disposal and transport of radioactive substances and radiation apparatus	
	17
21 Disposal of radioactive substances and radiation apparatus	17
22 Records to be kept of discharge of radioactive substances	17
23 Transport of radioactive substances	17
Division 5 Radiation accidents	18
24 Certain occurrences are taken to be radiation accidents	18
25 Duty to report and investigate apparent radiation accidents	18
26 Register of accidents	19
27 Faults or defects	20
Part 4 Radiation safety officers and committees	20
28 Appointment of radiation safety officers and committees	20
Part 5 Miscellaneous	20
29 Destruction etc of records	20
30 Contamination of premises by radioactivity (sec 21)	21
31 Loss or theft of radioactive substance or radiation apparatus	
32 Forfeiture of property (secs 26 and 27)	
33 Warning signs	22
34 Savings	22

Schedule 1 Prescribed activity of a radioactive substance	22
Schedule 2 Dose limits for exposure to ionising radiation	24
Schedule 3 Exemptions from licensing	24
Schedule 4 Prescribed warning sign	26

Radiation Control Regulation 1993



Part 1 Preliminary

1 Name of Regulation

This Regulation may be cited as the Radiation Control Regulation 1993.

2 Commencement

This Regulation commences on 1 September 1993.

3 Definitions

(1) In this Regulation:

absorbed dose has the same meaning as it has in the 1990 ICRP recommendations.

approved means approved for the time being by the Director-General.

Dentistry Radiation Guideline means the document published by the Environment Protection Authority entitled "Radiation Guideline 6: Registration requirements & industry best practice for ionising radiation apparatus used in diagnostic imaging—Part 3 Dentistry (including maxillofacial)" and published in the Gazette on 11 February 2000.

Director-General means the Director-General of the Environment Protection Authority.

effective dose has the same meaning as it has in the 1990 ICRP recommendations.

equivalent dose has the same meaning as it has in the 1990 ICRP recommendations.

Fluoroscopy and Radiography Radiation Guideline means the document published by the Environment Protection Authority entitled "Radiation Guideline 6: Registration requirements & industry best practice for ionising radiation apparatus used in diagnostic imaging—Part 2 Fluoroscopy and Radiography" and published in the Gazette on 11 February 2000.

Mammography Radiation Guideline means the document published by the

Environment Protection Authority entitled "Radiation Guideline 6: Registration requirements & industry best practice for ionising radiation apparatus used in diagnostic imaging—Part 1 Mammography" and published in the Gazette on 11 February 2000.

occupationally exposed person means a person who is or is likely to be exposed to ionising or non-ionising radiation as a result of being directly involved, in the course of his or her employment, with radiation apparatus or radioactive substances.

radiation accident is defined in clause 24.

the Act means the Radiation Control Act 1990.

the 1990 ICRP recommendations means the document entitled "1990 Recommendations of the International Commission on Radiological Protection" and numbered "ICRP Publication 60", as adopted by the International Commission on Radiological Protection in November 1990, a copy of which is deposited in the offices of the Environment Protection Authority.

Tomography and Bone Mineral Densitometry Radiation Guideline means the document published by the Environment Protection Authority entitled "Radiation Guideline 6: Registration requirements & industry best practice for ionising radiation apparatus used in diagnostic imaging—Part 5 Computed Tomography and Bone Mineral Densitometry" and published in the Gazette on 11 February 2000.

Veterinary Radiation Guideline means the document published by the Environment Protection Authority entitled "Radiation Guideline 6: Registration requirements & industry best practice for ionising radiation apparatus used in diagnostic imaging—Part 4 Veterinary Science" and published in the Gazette on 11 February 2000.

- (2) In this Regulation, a reference to a radioactive substance of a particular Group is a reference to a radioactive substance referred to in the corresponding Part of Schedule 1.
- (3) Notes in the text of this Regulation do not form part of this Regulation.

4 Definition of "radioactive ore" (sec 4)

- (1) For the purposes of the definition of *radioactive ore* in section 4 (1) of the Act, the prescribed concentrations of uranium and thorium are:
 - (a) in the case of an ore that contains uranium but not thorium, 0.02 per cent by weight of uranium, or
 - (b) in the case of an ore that contains thorium but not uranium, 0.05 per cent by weight of thorium, or

(c) in the case of an ore that contains both uranium and thorium, a percentage by weight of uranium and thorium such that the expression:

$$\frac{U}{0.02} + \frac{Th}{0.05}$$

is greater than or equal to one.

- (2) In the expression referred to in subclause (1) (c):
 - (a) $\boldsymbol{\textit{U}}$ represents the percentage by weight of uranium, and
 - (b) **Th** represents the percentage by weight of thorium.

5 Definition of "radioactive substance" (sec 4)

- (1) For the purposes of the definition of *radioactive substance* in section 4 (1) of the Act, the prescribed amount is 100 becquerels per gram.
- (2) For the purposes of the definition of *radioactive substance* in section 4 (1) of the Act, a substance has the prescribed activity if the expression:

$$\frac{A1}{40} + \frac{A2}{400} + \frac{A3}{4000} + \frac{A4}{40000}$$

is greater than or equal to one.

- (3) In the expression referred to in subclause (2):
 - (a) A1 represents the total activity, in kilobecquerels, of the Group 1 radionuclides contained in the substance,
 - (b) A2 represents the total activity, in kilobecquerels, of the Group 2 radionuclides contained in the substance,
 - (c) A3 represents the total activity, in kilobecquerels, of the Group 3 radionuclides contained in the substance,
 - (d) A4 represents the total activity, in kilobecquerels, of the Group 4 radionuclides contained in the substance.

6 Safe dose limits to be taken into account by Authority

When making a decision under the Act, the Authority is to take into account, where relevant, the dose limits for exposure to ionising radiation, and the guidelines for assessing those limits, set out in Schedule 2.

Part 2 Licensing, registration and accreditation

7 Exemptions from sec 6 licensing requirements for certain radiation apparatus etc

- (1) A person is exempt from the requirement to be licensed under section 6 of the Act in relation to the use of the kinds of radioactive substances specified in Part 1 of Schedule 3.
- (2) A person is exempt from the requirement to be licensed under section 6 of the Act in relation to the use or sale of the kinds of radioactive substances specified in Part 2 of Schedule 3.
- (3) A person is exempt from the requirement to be licensed under section 6 of the Act in relation to the use of the kinds of ionising radiation apparatus specified in Part 3 of Schedule 3.
- (4) A person is exempt from the requirement to be licensed under section 6 of the Act in relation to the use or sale of the kinds of ionising radiation apparatus specified in Part 4 of Schedule 3.

8 Exemptions from sec 6 licensing requirements for certain persons

- (1) The following persons are exempt from the licensing requirements of section 6 of the Act in relation to the use of radioactive substances and ionising radiation apparatus:
 - (a) a person who is a medical registrar at a hospital and is training in nuclear medicine, diagnostic radiology, radiation oncology, ophthalmology, dermatology, rheumatology or in a medical discipline which uses fluoroscopy,
 - a person who is a student in medical radiation technology and is a trainee technologist in nuclear medicine, diagnostic radiology or radiation oncology,
 - (c) a person who is an assistant to an industrial radiographer,
 - (d) an undergraduate student in a university or other educational institution who is undertaking course work or research,
 - (e) a postgraduate student in a university or other educational institution who is undertaking research or higher studies,
 - (f) a person who is a registered nurse at a hospital or a medical officer at a hospital and is required to inject radiopharmaceuticals by that hospital (but only if a person who is the holder of a licence and who is able to inject the radiopharmaceuticals is not readily available at the hospital).
- (2) This exemption does not have effect with respect to a person unless the person:
 - (a) is the subject of an approval under this clause, and

- (b) is complying with the conditions to which the approval is subject.
- (3) A person who holds a licence may give approvals for the purposes of this clause, but only if the conditions of the licence so allow.
- (4) An approval:
 - (a) must be in writing, and
 - (b) must specify the radioactive substances or radiation apparatus to which it relates, and
 - (c) must set out any conditions to which it is subject, and
 - (d) must identify each person, or class of persons, to whom it relates, and
 - (e) must identify the person or persons who are to supervise each person, or class of persons, to whom it relates.
- (5) A person who gives an approval for the purposes of this clause must ensure that a copy of the approval:
 - (a) is given to each person to whom it relates, or
 - (b) is conspicuously displayed at each place in which the radioactive substances or ionising radiation apparatus to which the approval relates are proposed to be used.

Maximum penalty: 15 penalty units.

- (6) A person who grants an approval must ensure that each person so approved is supervised by a qualified person as follows:
 - (a) a person referred to in subclause (1) (a) must be subject to:
 - (i) immediate supervision at all times during the first 6 months of the person's training, and
 - (ii) general supervision after that period,
 - (b) a person referred to in subclause (1) (b) must be subject to:
 - (i) immediate supervision at all times while the person is using the radioactive substances or radiation apparatus to which the approval relates during clinical experience in the course of training, and
 - (ii) general supervision at all other times,
 - (c) a person referred to in subclause (1) (c) must be subject to immediate supervision at all times,

- (d) a person referred to in subclause (1) (d) must be subject to:
 - (i) immediate supervision at all times while the person is using the radioactive substances or radiation apparatus to which the approval relates in any clinical situation, and
 - (ii) general supervision at all other times,
- (e) a person referred in subclause (1) (e) or (f) must be subject to general supervision at all times.

Maximum penalty: 15 penalty units.

(7) In this clause:

general supervision means supervision by a qualified supervisor who oversees the person being supervised and ensures that the person follows safe radiation work practices in relation to the use of radioactive substances or radiation apparatus.

immediate supervision means supervision by a qualified supervisor who is present at all times during, and is observing and directing, the use by the person being supervised of radioactive substances or radiation apparatus.

qualified person, in relation to supervision for a particular radioactive substance or item of radiation apparatus, means a person who is the holder of a licence which allows the person to provide supervision with respect to that substance or item.

9 (Repealed)

10 Registration of certain sealed radioactive sources

- (1) All sealed radioactive sources, other than fixed radiation gauges, are exempt from the application of section 7 of the Act.
- (2) Registration under section 7 of the Act of a fixed radiation gauge has effect for 2 years.

10A Registration of certain radiation apparatus

For the purposes of section 7 (1) (b) of the Act, the following kinds of radiation apparatus are prescribed as apparatus to which section 7 applies:

- (a) any ionising radiation apparatus used or intended to be used for any medical diagnostic, veterinary diagnostic or dental diagnostic purpose,
- (b) any cyclotron.

10B Requirements for registration of radiation apparatus

(1) For the purposes of section 7 (5) of the Act, the applicable requirements for

registration of ionising radiation apparatus of a type specified in Column 1 of the table to this clause are the requirements specified opposite that type in Column 2 of the table.

(2) This clause commences on 11 February 2002.

Column 1	Column 2
Type of ionising radiation apparatus	Requirements for registration
Apparatus for dental diagnostic purposes	The requirements specified in Schedule 1 to the Dentistry Radiation Guideline
Apparatus for fluoroscopy or radiography	The requirements specified in Schedule 1 to the Fluoroscopy and Radiography Radiation Guideline
Apparatus for mammography	The requirements specified in Schedule 1 to the Mammography Radiation Guideline
Apparatus for tomography or bone mineral densitometry	The requirements specified in Schedule 1 to the Tomography and Bone Mineral Densitometry Radiation Guideline
Apparatus for veterinary diagnostic purposes	The requirements specified in Schedule 1 to the Veterinary Radiation Guideline

Note-

The Guidelines referred to in this clause, and defined in clause 3 (1), are available from the Environment Protection Authority.

11 Consulting radiation experts

- (1) For the purposes of section 9 (1) of the Act, the following activities are prescribed as the activities of a consulting radiation expert:
 - (a) advising on the design of premises to be registered under section 8 of the Act in relation to radiation safety requirements,
 - (b) assessing plans for premises to be registered under section 8 of the Act in relation to radiation safety requirements for the purpose of certifying compliance with the requirements necessary for registration,
 - (c) calibrating ionising radiation apparatus used for medical therapy,
 - (d) calibrating ionising radiation apparatus used for diagnostic purposes,
 - (e) assessing radiation apparatus, sealed radioactive sources and premises which are required to be registered under section 7 or 8 of the Act for the purpose of certifying compliance with the requirements for registration,

- (f) advising on the design of premises, in relation to radiation safety requirements, in which sealed radioactive sources or radiation apparatus prescribed under section 7 (1) of the Act are kept or used,
- (g) assessing plans for premises in which sealed radioactive sources or radiation apparatus prescribed under section 7 (1) of the Act are kept or used, for the purpose of certifying compliance with any requirements for registration under section 7 (5) of the Act,
- (h) assessing the integrity of any shielding of premises in which sealed radioactive sources or radiation apparatus prescribed under section 7 (1) of the Act are kept or used for purposes of certifying compliance with the requirements for registration.
- (2) For the purposes of this Regulation:

radiation assessor means a person whose accreditation under section 9 of the Act allows the person to carry out the activities referred to in subclause (1) (e) or (h) but does not allow the person to carry out any of the activities referred to in subclause (1) (a)–(d) or (f)–(g).

radiation consultant means a person whose accreditation under section 9 of the Act allows the person to carry out any one or more of the activities referred to in subclause (1) (a)–(d) or (f)–(g), whether or not it also allows the person to carry out the activities referred to in subclause (1) (e) or (h).

(3) Inspectors appointed under section 32 of the Act are exempt from the provisions of section 9 (1) of the Act.

12 Fees

The following fees are prescribed for the purposes of the Act:

Table of fees

Licence under section 6 of the Act					
Registration under section 7 of the Act (other than for cyclotrons)					
Registration of cyclotron under section 7 of the Act					
Renewal of licence under section 11 of the Act	\$46				
Renewal of registration under section 11 of the Act (other than for cyclotrons)					
Renewal of registration of cyclotron under section 11 of the Act					
Accreditation under section 9 of the Act					
Transfer of registration under section 12 of the Act					
Variation of licence under section 10A of the Act	\$83				

Variation of accreditation under section 10A of the Act

\$91

12A Waiver of fees

If the Authority thinks proper, the Authority may determine that the fee for the variation of a licence or accreditation required to be paid under this Regulation be waived wholly or in part.

Part 3 Radiation safety

Division 1 Radiation safety in the workplace

13 Duty to inform occupationally exposed persons

An employer must ensure that each occupationally exposed person in his or her employ is made aware of, and kept informed of any changes in, the following particulars:

- (a) the hazards that can arise in connection with the use of radioactive substances and radiation apparatus,
- (b) the safety arrangements that exist to protect persons from such hazards and of the steps that the person must take in order to minimise the likelihood that such a hazard will arise.
- (c) the name of the radiation safety officer or other person to whom the person should refer in connection with any matters relating to the use of radioactive substances and radiation apparatus.

Maximum penalty: 15 penalty units.

14 Radiation safety manual

- (1) The Director-General may, by notice in writing served on an employer, direct the employer:
 - (a) to prepare or adopt a radiation safety manual, and
 - (b) to submit a copy of the manual to the Council for approval,
 - within such period of time as is specified in the direction.
- (2) An employer must not fail to comply with such a direction.
 - Maximum penalty: 15 penalty units.
- (3) An employer whose radiation safety manual has been approved by the Council:
 - (a) must ensure that a copy of the manual is available to all occupationally exposed persons employed by the employer, and

(b) must take all reasonable steps to ensure that the procedures set out in the manual with respect to the use of radioactive substances and radiation apparatus are followed by all persons in his or her employ.

Maximum penalty: 15 penalty units.

(4) A radiation safety manual may not be approved by the Council unless it conforms to the document adopted by the Council and entitled "Guideline: Preparation of Radiation Safety Manuals", a copy of which is deposited in the offices of the Environment Protection Authority.

Division 2 Radiation monitoring

15 Personal monitoring devices

- (1) An employer must ensure that all occupationally exposed persons in his or her employ who are involved in the use of ionising radiation for any one or more of the following purposes are issued with approved personal monitoring devices for detecting and measuring cumulative exposure to ionising radiation:
 - (a) radiotherapy,
 - (b) industrial radiography,
 - (c) nuclear medicine,
 - (d) scientific research in laboratories classified as medium or high level laboratories (within the meaning of Part 4 of Australian Standard 2243.4—1986, *Safety in Laboratories*, published by the Standards Association of Australia) where unsealed radioactive sources are used,
 - (e) diagnostic radiology.

Maximum penalty: 15 penalty units.

(2) An occupationally exposed person to whom an approved monitoring device has been issued in accordance with this clause must wear the device while involved in the use of ionising radiation in the course of the person's employment.

Maximum penalty: 15 penalty units.

16 Personal radiation exposure record

- (1) An employer must ensure that, for each occupationally exposed person to whom a personal monitoring device is issued, a record is kept, on an appropriate periodic basis:
 - (a) of the amount of radiation to which the person has been exposed, as measured by the device, and

(b) of the results of any tests carried out or caused to be carried out by the employer in relation to the person for the purpose of determining the amount of radiation to which the person has been exposed.

Maximum penalty: 15 penalty units.

- (2) Such a record must contain the following particulars:
 - (a) the full name, sex and date of birth of the occupationally exposed person,
 - (b) the current home address of the occupationally exposed person or, if the person is no longer employed by the employer, the person's last known home address,
 - (c) the date of commencement of employment (and, if applicable, the date of cessation of employment) as an occupationally exposed person,
 - (d) the kind of work performed by the occupationally exposed person,
 - (e) details of the types of ionising radiation to which the occupationally exposed person may have been exposed in the course of employment with the employer, including information about radioactive substances in unsealed form (if any) to which the occupationally exposed person may have been exposed,
 - (f) details of any radiation accidents in which the person has been involved or by which the person may have been affected,
 - (g) details of the personal monitoring device worn by the occupationally exposed person,
 - (h) the results of monitoring the levels of radiation exposure of the occupationally exposed person.
- (3) When an employee leaves an employer's employment, the employer:
 - (a) must cause a copy of the radiation exposure records relating to the employee to be given to the employee, and
 - (b) if the employer is aware that the employee is taking up employment as an occupationally exposed person with some other employer, and if the employee consents, must cause a further copy of those records to be given to the other employer.

Maximum penalty: 15 penalty units.

(4) An employer must ensure that a warning in the following terms accompanies a copy of the radiation exposure records given to an employee by the employer in accordance with subclause (3):

THESE RECORDS SHOULD BE KEPT SAFELY AND BE GIVEN TO ANY FUTURE

EMPLOYER IN THE RADIATION AREA. THEY CONTAIN INFORMATION OF PERMANENT APPLICATION.

Maximum penalty: 15 penalty units.

(5) An employer by whom a record is required to be kept must ensure that the records are available for inspection by the person to whom they relate at reasonable times during normal working hours.

Maximum penalty: 15 penalty units.

17 Area monitoring devices

- (1) On the recommendation of the Council, the Director-General may, by notice in writing served on an employer, direct the employer to take specified action with respect to the monitoring of radiation on specified premises.
- (2) In particular, such a direction may require the employer to ensure that specified premises are equipped with approved monitoring devices for the purpose of monitoring the presence and level of radiation on the premises.
- (3) An employer must not contravene a direction in force under this clause.

Maximum penalty: 15 penalty units.

18 Maintenance of monitoring devices

An employer must ensure that all monitoring devices that are issued or installed by the employer in accordance with the requirements of this Division are checked, maintained and calibrated in accordance with the document adopted by the Council and entitled "Guideline: Monitoring Devices", a copy of which is deposited in the offices of the Environment Protection Authority.

Maximum penalty: 15 penalty units.

19 Records to be kept of monitoring equipment

An employer must ensure that, for each monitoring device issued or installed by the employer in accordance with this Division, a record is kept of the following particulars:

- (a) the date on which the device was acquired,
- (b) the date of each occasion on which the device was repaired and the details of the repairs,
- (c) the date on which the device was last calibrated.

Maximum penalty: 15 penalty units.

Division 3 Voluntary exposure to radiation for scientific or research

purposes

20 Voluntary exposure to radiation for scientific or research purposes

A person must not expose any other person to ionising radiation for scientific or research purposes except in accordance with the document entitled "Administration of Ionizing Radiation to Human Subjects in Medical Research (1984)" of the National Health and Medical Research Council, published by the Australian Government Publishing Service.

Maximum penalty: 15 penalty units.

Division 4 Disposal and transport of radioactive substances and radiation apparatus

21 Disposal of radioactive substances and radiation apparatus

(1) A person must not dispose of any radioactive substance except with the consent of the Director-General.

Maximum penalty: 100 penalty units.

(2) A person must not dispose of any radiation apparatus except with the consent of the Director-General and unless the apparatus has been rendered permanently inoperable.

Maximum penalty: 100 penalty units.

(3) The consent of the Director-General may be given generally or in a particular case and may be subject to such conditions as the Director-General thinks fit to impose.

22 Records to be kept of discharge of radioactive substances

(1) The occupier of any premises on which radioactive substances are kept must maintain a record of all radioactive substances discharged from the premises.

Maximum penalty: 100 penalty units.

- (2) The record must include the following information:
 - (a) the type of radioactive substances discharged,
 - (b) an estimate of the total activity of the radioactive substances discharged,
 - (c) the manner in which the radioactive substances were discharged,
 - (d) the date on which the radioactive substances were discharged.

23 Transport of radioactive substances

A person must not cause any radioactive substance to be transported otherwise than in

accordance with the requirements of the Code of Practice for the Safe Transport of Radioactive Material published in September 2001 by the Chief Executive Officer of the Australian Radiation Protection and Nuclear Safety Agency.

Maximum penalty: 100 penalty units.

Division 5 Radiation accidents

24 Certain occurrences are taken to be radiation accidents

- (1) For the purposes of this Regulation, a radiation accident is to be treated as having occurred if there is an occurrence that involves the unplanned or unexpected emission of radiation (such as spillage or leakage of a radioactive substance or damage to radiation apparatus) and that is of such a nature or extent that it is likely:
 - (a) that one or more persons have, or could have, received a dose of radiation equal to or in excess of:
 - (i) 5 millisieverts, in the case of an occupationally exposed person, or
 - (ii) 1 millisievert, in any other case, or
 - (b) that premises or the environment may have become contaminated within the meaning of section 21 of the Act.
- (2) For the purposes of this Regulation, a radiation accident is to be treated as having occurred if there is an occurrence that involves the misuse of radiation apparatus or maladministration of a radioactive substance used for medical purposes, including:
 - (a) the administration of a radioactive substance for diagnostic purposes in a quantity of more than 50 per cent more than that prescribed,
 - (b) the administration of a radioactive substance for therapeutic purposes at an activity differing by more than 15 per cent from that prescribed,
 - (c) administration of a therapeutic dose of radiation from radiation apparatus or a sealed radioactive source which differs from the total prescribed treatment dose by more than 10 per cent,
 - (d) the unintended administration of radiation as a result of a malfunction of radiation apparatus,
 - (e) administration of a radiopharmaceutical otherwise than as prescribed.

25 Duty to report and investigate apparent radiation accidents

- (1) An employer must give written notice to the Director-General of the particulars:
 - (a) specified in subclause (2) (a)–(d) within 48 hours of becoming aware of an apparent radiation accident, and

- (b) specified in subclause (2) (e) within 10 days of becoming aware of an apparent radiation accident.
- (2) The notice must contain the following particulars:
 - (a) particulars of the accident indicating, as far as is possible, the place where it occurred and the period during which emission of radiation was uncontrolled,
 - (b) particulars of the area over which any radioactive substances may have been dispersed,
 - (c) particulars of any steps taken to rectify the accident,
 - (d) particulars of any personal injury or exposure that may have resulted,
 - (e) particulars of any assessment of the radiation dose to which any person may have been exposed as a result of the accident.

26 Register of accidents

- (1) An employer must maintain a record of all radiation accidents.
 - Maximum penalty: 15 penalty units.
- (2) Such a record must, for each radiation accident that is reported to the employer, contain the following particulars:
 - (a) particulars of the accident indicating, as far as is possible, the place where it occurred and the period during which emission of radiation was uncontrolled.
 - (b) the name of any occupationally exposed person or other person who was there during that period,
 - (c) an estimate of the radiation dose to which any person may have been exposed,
 - (d) details and results of any medical examinations undertaken as a result of the accident.
 - (e) particulars of the area over which any radioactive substances may have been dispersed,
 - (f) particulars of any steps taken to rectify the accident,
 - (g) the time at which the accident was reported to the employer,
 - (h) the probable cause of the accident,
 - (i) particulars of any investigations conducted into the accident, together with the results of the investigations,

(j) details of any steps taken to reduce the risk of a similar accident occurring in the future.

27 Faults or defects

An employer, on becoming aware that a fault may exist in any radiation apparatus:

- (a) must investigate the apparent fault and, if necessary, cause the apparatus to be removed, replaced or repaired, and
- (b) must inform all persons who may have been exposed to radiation in quantities in excess of those that would normally be received from the apparatus in faultless condition that they may have been so exposed.

Maximum penalty: 50 penalty units.

Part 4 Radiation safety officers and committees

28 Appointment of radiation safety officers and committees

- (1) On the recommendation of the Council, the Director-General may, by notice in writing served on an employer:
 - (a) direct the employer to appoint a radiation safety officer or a radiation safety committee, or both, for a workplace, and
 - (b) in the case of a direction to appoint a radiation safety officer, determine the qualifications to be held by a person so appointed, and
 - (c) direct what functions are to be exercised by a radiation safety officer or radiation safety committee so appointed.

(2) An employer:

- (a) must not fail to appoint a radiation safety officer or a radiation safety committee, or both, in accordance with a direction under this clause, and
- (b) must not allow the functions of the radiation safety officer or radiation safety committee to be exercised otherwise than by the officer or the committee, as the case requires.

Maximum penalty: 15 penalty units.

Part 5 Miscellaneous

29 Destruction etc of records

(1) An employer must not destroy or otherwise dispose of any records required to be kept under this Regulation otherwise than in accordance with this clause.

- Maximum penalty: 15 penalty units.
- (2) An employer may, with the consent of the Director-General, destroy or otherwise dispose of any records that the employer is required by this Regulation to keep.
- (3) The Director-General is not to give consent to the destruction of any records kept under clause 16 by an employer until at least 5 years after the cessation of employment with the employer of the employee concerned.
- (4) An employer may forward to the Director-General the records kept under this Regulation by the employer if the employer ceases to carry on business in New South Wales.
- (5) The Director-General may dispose of any records forwarded to or kept by the Director-General in accordance with this Regulation.

30 Contamination of premises by radioactivity (sec 21)

- (1) For the purposes of section 21 (4) of the Act, the prescribed level of activity for premises inside a building is:
 - (a) 0.04 becquerels per square centimetre for any Group 1 or Group 2 radioactive substance that emits alpha radiation, or
 - (b) 0.4 becquerels per square centimetre for any Group 3 or Group 4 radioactive substance that emits alpha radiation, or
 - (c) 0.4 becquerels per square centimetre for any radioactive substance that emits beta or gamma radiation.
- (2) For the purposes of section 21 (4) of the Act, the prescribed level of activity for premises outside a building is:
 - (a) 0.01 becquerels per square centimetre for any Group 1 radioactive substance, or
 - (b) 0.1 becquerels per square centimetre for any Group 2 radioactive substance, or
 - (c) 1.0 becquerels per square centimetre for any Group 3 radioactive substance, or
 - (d) 10.0 becquerels per square centimetre for any Group 4 radioactive substance.

31 Loss or theft of radioactive substance or radiation apparatus

- (1) If any radioactive substance, or any radiation apparatus registered under section 7 of the Act, is lost or stolen:
 - (a) the person who is the owner of the substance or apparatus, and
 - (b) any other person who is the holder of a licence and is employed to use, or to supervise the use of, the substance or apparatus,

must cause notice of the loss or theft to be given to the Director-General within 3 days after the person becomes aware of the loss or theft.

Maximum penalty: 15 penalty units.

(2) Notice does not have to be given by any one of those persons if notice has already been given by any other of those persons.

32 Forfeiture of property (secs 26 and 27)

- (1) An application made by or on behalf of the Authority for the purposes of section 26 (2) of the Act is to be in writing.
- (2) A notice referred to in section 27 (1) (b) of the Act is to be in writing addressed to the owner of the substance or thing concerned at that person's address last known to the Authority.

33 Warning signs

The occupier of any premises in or on which any radiation apparatus or radioactive substance, not specified in Schedule 3, is kept must ensure that a warning sign in or to the effect of the form set out in Schedule 4 (with colouring as indicated in the note to that Schedule) is conspicuously displayed in the immediate vicinity of the apparatus or substance.

Maximum penalty: 10 penalty units.

34 Savings

- (1) A file referred to in Regulation 6 of the *Radioactive Substances Regulations 1959* (as in force immediately before their repeal) is taken to be a record referred to in clause 16 of this Regulation.
- (2) A fixed radiation gauge which was the subject of a licence in force under section 9 of the *Radioactive Substances Act 1957* immediately before its repeal is taken to be registered under section 7 of the *Radiation Control Act 1990* until 1 September 1994.

Schedule 1 Prescribed activity of a radioactive substance

(Clause 3)

Column	1									Column 2
GROUP 1	L									40 kilo- becquerels
Ac227	Am241	Am243	Cf249	Cf250	Cf252	Cm242	Cm243	Cm244	Cm245	
Cm246	Np237	Pa231	Pb210	Po210	Pu238	Pu239	Pu240	Pu241	Pu242	
Ra223	Ra226	Ra228	Th227	Th228	Th230	U230	U232	U233	U234	

Any alpha emitting radionuclide which is not included in any other Group in this Schedule										
GROUP 2	2									400 kilo- becquerels
Ac228	Ag110m	At211	Ba140	Bi207	Bi210	Bk249	Ca45	Cd115m	Ce144	
C136	Co56	Co60	Cs134	Cs137	Eu152	Eu154	Ge68	Hf181	I124	
l125	l126	I131	I133	In114m	lr192	Mn54	Na22	Pa230	Pb212	
Ra224	Ru106	Sb124	Sb125	Sc46	Sr89	Sr90	Ta182	Tb160	Te127m	
Te129m	Th234	Tl204	Tm170	U236	Y91	Zr95				
Any radi Schedul		vhich is no	t alpha er	nitting and	d is not in	cluded in a	any other	Group in t	:his	
GROUP 3	3									4 mega- becquerels
Ag105	Ag111	Ar41	As73	As74	As76	As77	Au196	Au198	Au199	
Ba131	Ba133	Be7	Bi206	Bi212	Br75	Br76	Br82	C14	Ca47	
Cd109	Cd115	Ce141	Ce143	CI38	Co57	Co58	Cr51	Cs129	Cs131	
Cs136	Cu64	Cu67	Dy165	Dy166	Er161	Er169	Er171	Eu152m	Eu155	
F18	Fe52	Fe55	Fe59	Ga67	Ga68	Ga72	Gd153	Gd159	Hf175	
Hg195m	Hg197	Hg197m	Hg203	Ho166	I123	I130	I132	I134	I135	
In111	In115	In115m	lr190	lr194	K42	K43	Kr85m	Kr87	La140	
Lu177	Mg28	Mn52	Mn56	Mo99	Na24	Nb93m	Nb95	Nd147	Nd149	
Ni63	Ni65	Np239	Os185	Os191	Os193	P32	Pa233	Pb203	Pd103	
Pd109	Pm147	Pm149	Pr142	Pr143	Pt191	Pt193	Pt197	Rb81	Rb86	
Re183	Re186	Re188	Rh105	Rn220	Rn222	Ru103	Ru105	Ru97	S35	
Sb122	Sc47	Sc48	Se75	Si31	Sm151	Sm153	Sn113	Sn121	Sn125	
Sr85	Sr91	Sr92	Tc96	Tc97	Tc97m	Tc99	Te125m	Te127	Te129	
Te131m	Te132	Th231	TI200	Tl201	TI202	Tm171	U239	V48	W181	
W185	W187	Xe135	Y87	Y90	Y92	Y93	Yb175	Zn62	Zn65	
Zn69m	Zr97									
GROUP 4	1									40 mega- becquerels
Ar37	Cl1	Co58m	Cs134m	Cs135	Cu62	Ga68	Ge71	Н3	l129	
In113m	Kr81m	Kr85	N13	Nb97	Ni59	015	Os191m	Pt193m	Pt197m	

Rb87	Re187	Rh103m	Se73	Sm147	Sr85m	Sr87m	Tc96m	Tc99m	Th nat
Th232	U nat	U235	U238	Xe131m	Xe133	Y91m	Zn69	Zr93	

Schedule 2 Dose limits for exposure to ionising radiation

(Clause 6)

Application	Dose limit Occupationally Exposed Person	Dose limit Member of Public (other than patient)
Effective dose	20 mSv per year averaged over 5 years	1 mSv in a year
Equivalent dose to:		
lens of the eye	150 mSv in a year	15 mSv in a year
skin	500 mSv in a year	50 mSv in a year
the hands and feet	500 mSv in a year	No limit specified

Note 1—

In the case of an occupationally exposed person who is a pregnant woman, a supplementary dose limit should apply to the surface of the abdomen of 2 millisieverts for the remainder of the pregnancy and the intake of radionuclide should be limited to 1/20 of the annual limit on intake for that radionuclide.

Note 2—

The following guidelines apply for the purpose of assessing an employee's dose:

- (a) those exposures resulting from:
 - · operating in workplaces where the Director-General has declared that the presence of radon gas requires remedial action
 - operating with or storing materials not usually regarded as radioactive but which the Director-General considers contain significant traces of natural radionuclides
 - · the operation of jet aircraft,

are to be taken into account,

- (b) any exposure resulting from diagnosis or treatment should not be taken into account,
- (c) any exposure attributable to normal background levels of radiation should not be taken into account.

Schedule 3 Exemptions from licensing

(Clause 7)

Part 1 Exemptions from licensing for use of radioactive substances

- · radioactive substances used for gas chromatography detectors
- sealed radioactive sources used for radiation gauging installed in fixed positions

 industrial smoke detectors that contain Am-241, if they do not contain any other radioactive substance

Part 2 Exemptions from licensing for use and sale of radioactive substances

- · clocks, watches and other devices that have luminous dials
- · gaseous tritium luminous devices (self luminous "EXIT" signs)
- radioactive substances used in nuclear medicine for checking gamma cameras and dose calibrators and having a level of activity of less than 40 megabecquerels
- radioactive substances used as laboratory reference sources and having a level of activity of less than 40 megabecquerels
- radioactive substances for demonstration, teaching and training having a level of activity of less than 40 megabecquerels
- uranium metal of natural isotopic composition, or depleted in uranium 235, which is used as radiation shielding in transport packages for radioactive substances or in any other manner

Part 3 Exemptions from licensing for use of radiation apparatus

- · x-ray baggage inspection apparatus
- cabinet x-ray inspection apparatus installed in a fixed position

Part 4 Exemptions from licensing for use and sale of radiation apparatus

- · television receivers
- visual display units
- · cold cathode gas discharge tubes
- electron microscopes

Schedule 4 Prescribed warning sign

(Clause 33)

CAUTION RADIATION



Note-

The sign is to have a yellow background with the distinctive symbol in black and the lettering "CAUTION RADIATION" in black.