

SCHEDULE 1

Regulations 6(1) and 13(3)

WORK NOT REQUIRED TO BE NOTIFIED UNDER REGULATION 6

1. Work with ionising radiation shall not be required to be notified in accordance with regulation 6 when the only such work being carried out is in one or more of the following categories—

- (a) where the concentration of activity per unit mass of a radioactive substance does not exceed the concentration specified in column 2 of Part I of Schedule 8;
- (b) where the quantity of radioactive substance involved does not exceed the quantity specified in column 3 of Part I of Schedule 8;
- (c) where apparatus contains radioactive substances in a quantity exceeding the values specified in sub-paragraphs (a) and (b) above provided that—
 - (i) the apparatus is of a type approved by the Executive;
 - (ii) the apparatus is constructed in the form of a sealed source;
 - (iii) the apparatus does not under normal operating conditions cause a dose rate of more than $1\mu\text{Svh}^{-1}$ at a distance of 0.1m from any accessible surface; and
 - (iv) conditions for the disposal of the apparatus have been specified by the appropriate Agency;
- (d) the operation of any electrical apparatus to which these Regulations apply other than apparatus referred to in sub-paragraph (e) below provided that—
 - (i) the apparatus is of a type approved by the Executive; and
 - (ii) the apparatus does not under normal operating conditions cause a dose rate of more than $1\mu\text{Svh}^{-1}$ at a distance of 0.1m from any accessible surface;
- (e) the operation of—
 - (i) any cathode ray tube intended for the display of visual images; or
 - (ii) any other electrical apparatus operating at a potential difference not exceeding 30kV, provided that the operation of the tube or apparatus does not under normal operating conditions cause a dose rate of more than $1\mu\text{Svh}^{-1}$ at a distance of 0.1m from any accessible surface;
- (f) where the work involves material contaminated with radioactive substances resulting from authorised releases which the appropriate Agency has declared not to be subject to further control.

Commencement Information

I1 Sch. 1 para. 1 in force at 1.1.2000, see [reg. 1\(a\)](#)

2. In this Schedule, “the appropriate Agency” has the meaning assigned to it by section 47(1) of the Radioactive Substances Act 1993(1).

Commencement Information

I2 Sch. 1 para. 2 in force at 1.1.2000, see [reg. 1\(a\)](#)

(1) 1993 c. 12; section 47 was amended by the Environment Act 1995 (c. 25), Schedule 22, paragraph 227.

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SCHEDULE 2

Regulation 6(2)

PARTICULARS TO BE PROVIDED IN A NOTIFICATION UNDER REGULATION 6(2)

Commencement Information

I3 Sch. 2 in force at 1.1.2000, see [reg. 1\(a\)](#)

The following particulars shall be given in a notification under regulation 6(2)—

- (a) the name and address of the employer and a contact telephone or fax number or electronic mail address;
- (b) the address of the premises where or from where the work activity is to be carried out and a telephone or fax number or electronic mail address at such premises;
- (c) the nature of the business of the employer;
- (d) into which of the following categories the source or sources of ionising radiation fall—
 - (i) sealed source;
 - (ii) unsealed radioactive substance;
 - (iii) electrical equipment;
 - (iv) an atmosphere containing the short-lived daughters of radon 222;
- (e) whether or not any source is to be used at premises other than the address given at subparagraph (b) above; and
- (f) dates of notification and commencement of the work activity.

SCHEDULE 3

Regulation 6(3)

ADDITIONAL PARTICULARS THAT THE EXECUTIVE MAY REQUIRE

Commencement Information

I4 Sch. 3 in force at 1.1.2000, see [reg. 1\(a\)](#)

The following additional particulars may be required under regulation 6(3)—

- (a) a description of the work with ionising radiation;
- (b) particulars of the source or sources of ionising radiation including the type of electrical equipment used or operated and the nature of any radioactive substance;
- (c) the quantities of any radioactive substance involved in the work;
- (d) the identity of any person engaged in the work;
- (e) the date of commencement and the duration of any period over which the work is carried on;
- (f) the location and description of any premises at which the work is carried out on each occasion that it is so carried out;
- (g) the date of termination of the work;
- (h) further information on any of the particulars listed in Schedule 2.

SCHEDULE 4

Regulation 11

DOSE LIMITS

PART I

Classes of Persons to whom Dose Limits Apply

Employees of 18 years of age or above

1. For the purposes of regulation 11(1), the limit on effective dose for any employee of 18 years of age or above shall be 20 mSv in any calendar year.

Commencement Information

I5 Sch. 4 para. 1 in force at 1.1.2000, see [reg. 1\(a\)](#)

2. Without prejudice to paragraph 1—

- (a) the limit on equivalent dose for the lens of the eye shall be 150 mSv in a calendar year;
- (b) the limit on equivalent dose for the skin shall be 500 mSv in a calendar year as applied to the dose averaged over any area of 1cm² regardless of the area exposed;
- (c) the limit on equivalent dose for the hands, forearms, feet and ankles shall be 500 mSv in a calendar year.

Commencement Information

I6 Sch. 4 para. 2 in force at 1.1.2000, see [reg. 1\(a\)](#)

Commencement Information

I5 Sch. 4 para. 1 in force at 1.1.2000, see [reg. 1\(a\)](#)

I6 Sch. 4 para. 2 in force at 1.1.2000, see [reg. 1\(a\)](#)

Trainees aged under 18 years

3. For the purposes of regulation 11(1), the limit on effective dose for any trainee under 18 years of age shall be 6 mSv in any calendar year.

Commencement Information

I7 Sch. 4 para. 3 in force at 1.1.2000, see [reg. 1\(a\)](#)

4. Without prejudice to paragraph 3—

- (a) the limit on equivalent dose for the lens of the eye shall be 50 mSv in a calendar year;
- (b) the limit on equivalent dose for the skin shall be 150 mSv in a calendar year as applied to the dose averaged over any area of 1 cm² regardless of the area exposed;

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- (c) the limit on equivalent dose for the hands, forearms, feet and ankles shall be 150 mSv in a calendar year.

Commencement Information

I8 Sch. 4 para. 4 in force at 1.1.2000, see [reg. 1\(a\)](#)

Commencement Information

I7 Sch. 4 para. 3 in force at 1.1.2000, see [reg. 1\(a\)](#)

I8 Sch. 4 para. 4 in force at 1.1.2000, see [reg. 1\(a\)](#)

Women of reproductive capacity

5. Without prejudice to paragraphs 1 and 3, the limit on equivalent dose for the abdomen of a women of reproductive capacity who is at work, being the equivalent dose from external radiation resulting from exposure to ionising radiation averaged throughout the abdomen, shall be 13 mSv in any consecutive period of three months.

Commencement Information

I9 Sch. 4 para. 5 in force at 1.1.2000, see [reg. 1\(a\)](#)

Other persons

6. Subject to paragraph 7, for the purposes of regulation 11(1) the limit on effective dose for any person other than an employee or trainee, including any person below the age of 16, shall be 1 mSv in any calendar year.

Commencement Information

I10 Sch. 4 para. 6 in force at 1.1.2000, see [reg. 1\(a\)](#)

7. Paragraph 6 shall not apply in relation to any person (not being a comforter or carer) who may be exposed to ionising radiation resulting from the medical exposure of another and in such a case the limit on effective dose for any such person shall be 5 mSv in any period of 5 consecutive calendar years.

Commencement Information

I11 Sch. 4 para. 7 in force at 1.1.2000, see [reg. 1\(a\)](#)

8. Without prejudice to paragraphs 6 and 7—
- (a) the limit on equivalent dose for the lens of the eye shall be 15 mSv in any calendar year;
 - (b) the limit on equivalent dose for the skin shall be 50 mSv in any calendar year averaged over any 1 cm² area regardless of the area exposed;
 - (c) the limit on equivalent dose for the hands, forearms, feet and ankles shall be 50 mSv in a calendar year.

Commencement Information

I12 Sch. 4 para. 8 in force at 1.1.2000, see [reg. 1\(a\)](#)

Commencement Information

I10 Sch. 4 para. 6 in force at 1.1.2000, see [reg. 1\(a\)](#)

I11 Sch. 4 para. 7 in force at 1.1.2000, see [reg. 1\(a\)](#)

I12 Sch. 4 para. 8 in force at 1.1.2000, see [reg. 1\(a\)](#)

PART II

9. For the purposes of regulation 11(2), the limit on effective dose for employees of 18 years or above shall be 100 mSv in any period of five consecutive calendar years subject to a maximum effective dose of 50 mSv in any single calendar year.

Commencement Information

I13 Sch. 4 para. 9 in force at 1.1.2000, see [reg. 1\(a\)](#)

10. Without prejudice to paragraph 9—

- (a) the limit on equivalent dose for the lens of the eye shall be 150 mSv in a calendar year;
- (b) the limit on equivalent dose for the skin shall be 500 mSv in a calendar year as applied to the dose averaged over any area of 1cm² regardless of the area exposed;
- (c) the limit on equivalent dose for the hands, forearms, feet and ankles shall be 500 mSv in a calendar year.

Commencement Information

I14 Sch. 4 para. 10 in force at 1.1.2000, see [reg. 1\(a\)](#)

11. Without prejudice to paragraph 9, the limit on equivalent dose for the abdomen of a woman of reproductive capacity who is at work, being the equivalent dose from external radiation resulting from exposure to ionising radiation averaged throughout the abdomen, shall be 13 mSv in any consecutive period of three months.

Commencement Information

I15 Sch. 4 para. 11 in force at 1.1.2000, see [reg. 1\(a\)](#)

12. The employer shall ensure that any employee in respect of whom regulation 11(2) applies is not exposed to ionising radiation to an extent that any dose limit specified in paragraphs 9 to 11 is exceeded.

Commencement Information

I16 Sch. 4 para. 12 in force at 1.1.2000, see [reg. 1\(a\)](#)

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13. An employer shall not put into effect a system of dose limitation in pursuance of regulation 11(2) unless—

- (a) the radiation protection adviser and any employees who are affected have been consulted;
- (b) any employees affected and the approved dosimetry service have been informed in writing of the decision and of the reasons for that decision; and
- (c) notice has been given to the Executive at least 28 days (or such shorter period as the Executive may allow) before the decision is put into effect giving the reasons for the decision.

Commencement Information

I17 Sch. 4 para. 13 in force at 1.1.2000, see [reg. 1\(a\)](#)

14. Where there is reasonable cause to believe that any employee has been exposed to an effective dose greater than 20 mSv in any calendar year, the employer shall, as soon as is practicable—

- (a) undertake an investigation into the circumstances of the exposure for the purpose of determining whether the dose limit referred to in paragraph 9 is likely to be complied with; and
- (b) notify the Executive of that suspected exposure.

Commencement Information

I18 Sch. 4 para. 14 in force at 1.1.2000, see [reg. 1\(a\)](#)

15. An employer shall review the decision to put into effect a system of dose limitation pursuant to regulation 11(2) at appropriate intervals and in any event not less than once every five years.

Commencement Information

I19 Sch. 4 para. 15 in force at 1.1.2000, see [reg. 1\(a\)](#)

16. Where as a result of a review undertaken pursuant to paragraph 15 an employer proposes to revert to a system of annual dose limitation pursuant to regulation 11(1), the provisions of paragraph 13 shall apply as if the reference in that paragraph to regulation 11(2) was a reference to regulation 11(1).

Commencement Information

I20 Sch. 4 para. 16 in force at 1.1.2000, see [reg. 1\(a\)](#)

17. Where an employer puts into effect a system of dose limitation in pursuance of regulation 11(2), he shall record the reasons for that decision and shall ensure that the record is preserved for a period of 50 years from the date of its making.

Commencement Information

I21 Sch. 4 para. 17 in force at 1.1.2000, see [reg. 1\(a\)](#)

18. In any case where—

- (a) the dose limits specified in paragraph 9 are being applied by a radiation employer in respect of an employee; and
- (b) the Executive is not satisfied that it is impracticable for that employee to be subject to the dose limit specified in paragraph 1 of Part I of this Schedule,

the Executive may require the employer to apply the dose limit specified in paragraph 1 of Part I with effect from such time as the Executive may consider appropriate having regard to the interests of the employee concerned.

Commencement Information

I22 Sch. 4 para. 18 in force at 1.1.2000, see [reg. 1\(a\)](#)

19. In any case where, as a result of a review undertaken pursuant to paragraph 15, an employer proposes to revert to an annual dose limitation pursuant to regulation 11(2), the Executive may require the employer to defer the implementation of that decision to such time as the Executive may consider appropriate having regard to the interests of the employee concerned.

Commencement Information

I23 Sch. 4 para. 19 in force at 1.1.2000, see [reg. 1\(a\)](#)

20. Any person who is aggrieved by the decision of the Executive taken pursuant to paragraphs 18 or 19 may appeal to the Secretary of State.

Commencement Information

I24 Sch. 4 para. 20 in force at 1.1.2000, see [reg. 1\(a\)](#)

21. Sub-sections (2) to (6) of section 44 of the 1974 Act shall apply for the purposes of paragraph 20 as they apply to an appeal under section 44(1) of that Act.

Commencement Information

I25 Sch. 4 para. 21 in force at 1.1.2000, see [reg. 1\(a\)](#)

22. The Health and Safety Licensing Appeals (Hearings Procedure) Rules 1974(2), as respects England and Wales, and the Health and Safety Licensing Appeals (Hearing Procedure) (Scotland) Rules 1974(3), as respects Scotland, shall apply to an appeal under paragraph 20 as they apply to an appeal under sub-section (1) of the said section 44, but with the modification that references to a licensing authority are to be read as references to the Executive.

Commencement Information

I26 Sch. 4 para. 22 in force at 1.1.2000, see [reg. 1\(a\)](#)

(2) [S.I. 1974/2040](#).
(3) [S.I. 1974/2068](#).

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SCHEDULE 5

Regulation 13(1)

MATTERS IN RESPECT OF WHICH A RADIATION PROTECTION ADVISER MUST BE CONSULTED BY A RADIATION EMPLOYER

1. The implementation of requirements as to controlled and supervised areas.

.....
Commencement Information

I27 Sch. 5 para. 1 in force at 1.1.2000, see [reg. 1\(a\)](#)

2. The prior examination of plans for installations and the acceptance into service of new or modified sources of ionising radiation in relation to any engineering controls, design features, safety features and warning devices provided to restrict exposure to ionising radiation.

.....
Commencement Information

I28 Sch. 5 para. 2 in force at 1.1.2000, see [reg. 1\(a\)](#)

3. The regular calibration of equipment provided for monitoring levels of ionising radiation and the regular checking that such equipment is serviceable and correctly used.

.....
Commencement Information

I29 Sch. 5 para. 3 in force at 1.1.2000, see [reg. 1\(a\)](#)

4. The periodic examination and testing of engineering controls, design features, safety features and warning devices and regular checking of systems of work provided to restrict exposure to ionising radiation.

.....
Commencement Information

I30 Sch. 5 para. 4 in force at 1.1.2000, see [reg. 1\(a\)](#)

SCHEDULE 6

Regulation 21(5)

PARTICULARS TO BE ENTERED IN THE RADIATION PASSBOOK

1. Individual serial number of the passbook.

.....
Commencement Information

I31 Sch. 6 para. 1 in force at 1.1.2000, see [reg. 1\(a\)](#)

2. A statement that the passbook has been approved by the Executive for the purpose of these Regulations.

Commencement Information

I32 Sch. 6 para. 2 in force at 1.1.2000, see [reg. 1\(a\)](#)

3. Date of issue of the passbook by the approved dosimetry service.

Commencement Information

I33 Sch. 6 para. 3 in force at 1.1.2000, see [reg. 1\(a\)](#)

4. The name, telephone number and mark of endorsement of the issuing approved dosimetry service.

Commencement Information

I34 Sch. 6 para. 4 in force at 1.1.2000, see [reg. 1\(a\)](#)

5. The name, address, telephone and telex/fax number of the employer.

Commencement Information

I35 Sch. 6 para. 5 in force at 1.1.2000, see [reg. 1\(a\)](#)

6. Full name (surname, forenames), date of birth, gender and national insurance number of the outside worker to whom the passbook has been issued.

Commencement Information

I36 Sch. 6 para. 6 in force at 1.1.2000, see [reg. 1\(a\)](#)

7. Date of the last medical review of the outside worker and the relevant classification in the health record maintained under regulation 24 as fit, fit subject to conditions (which shall be specified) or unfit.

Commencement Information

I37 Sch. 6 para. 7 in force at 1.1.2000, see [reg. 1\(a\)](#)

8. The relevant dose limits applicable to the outside worker to whom the passbook has been issued.

Commencement Information

I38 Sch. 6 para. 8 in force at 1.1.2000, see [reg. 1\(a\)](#)

9. The cumulative dose assessment in mSv for the year to date for the outside worker, external (whole body, organ or tissue) and/or internal as appropriate and the date of the end of the last assessment period.

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Commencement Information

I39 Sch. 6 para. 9 in force at 1.1.2000, see [reg. 1\(a\)](#)

- 10.** In respect of services performed by the outside worker—
- (a) the name and address of the employer responsible for the controlled area;
 - (b) the period covered by the performance of the services;
 - (c) estimated dose information, which shall be, as appropriate—
 - (i) an estimate of any whole body effective dose in mSv received by the outside worker;
 - (ii) in the event of non-uniform exposure, an estimate of the equivalent dose in mSv to organs and tissues as appropriate; and
 - (iii) in the event of internal contamination, an estimate of the activity taken in or the committed dose.

Commencement Information

I40 Sch. 6 para. 10 in force at 1.1.2000, see [reg. 1\(a\)](#)

SCHEDULE 7

Regulation 24(3)

PARTICULARS TO BE CONTAINED IN A HEALTH RECORD

Commencement Information

I41 Sch. 7 in force at 1.1.2000, see [reg. 1\(a\)](#)

The following particulars shall be contained in a health record made for the purposes of regulation 24(3)—

- (a) the employee's—
 - (i) full name;
 - (ii) sex;
 - (iii) date of birth;
 - (iv) permanent address; and
 - (v) National Insurance number;
- (b) the date of the employee's commencement as a classified person in present employment;
- (c) the nature of the employee's employment;
- (d) in the case of a female employee, a statement as to whether she is likely to receive in any consecutive period of three months an equivalent dose of ionising radiation for the abdomen exceeding 13 mSv;
- (e) the date of last medical examination or health review carried out in respect of the employee;
- (f) the type of the last medical examination or health review carried out in respect of the employee;

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- (g) a statement by the appointed doctor or employment medical adviser made as a result of the last medical examination or health review carried out in respect of the employee classifying the employee as fit, fit subject to conditions (which should be specified) or unfit;
- (h) in the case of a female employee in respect of whom a statement has been made under paragraph (d) to the effect that she is likely to receive in any consecutive period of three months an equivalent dose of ionising radiation for the abdomen exceeding 13 mSv, a statement by the appointed doctor or employment medical adviser certifying whether in his professional opinion the employee should be subject to the additional dose limit specified in paragraphs 5 and 11 of Schedule 4;
- (i) in relation to each medical examination and health review, the name and signature of the appointed doctor or employment medical adviser;
- (j) the name and address of the approved dosimetry service with whom arrangements have been made for maintaining the dose record in accordance with regulation 21.

SCHEDULE 8

Regulation 2(4) and 30(1) and (2) and
Schedule 1

QUANTITIES AND CONCENTRATIONS OF RADIONUCLIDES

PART I

TABLE OF RADIONUCLIDES

Commencement Information				
I42 Sch. 8 Pt. I in force at 1.1.2000, see reg. 1(a)				
1 Radionuclide name, symbol, isotope	2 Concentration for notification. Regulation 6 and Schedule 1 (Bq/g)	3 Quantity for notification. Regulation 6 and Schedule 1 (Bq)	4 Quantity for notification of occurrences. Regulation 30(1) (Bq)	5 Quantity for notification of occurrences. Regulation 30(3) (Bq)
Hydrogen				
Tritiated Compounds	1 10 ⁶	1 10 ⁹	1 10 ¹²	1 10 ¹²
Elemental	1 10 ⁶	1 10 ⁹	1 10 ¹³	1 10 ¹⁰
Beryllium				
a	Note 1 In the case of radionuclides not specified elsewhere in this Part, the quantities specified in this entry are to be used unless the Executive has approved some other quantity for that radionuclide.			
b	Note 2 Nuclides carrying the suffix“+” or “sec” in the above table represent parent nuclides in equilibrium with their correspondent daughter nuclides as listed in the following Table. In this case the concentrations and quantities given in the above Table refer to the parent nuclide alone, but already take account of the daughter nuclide(s) present.			

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Be-7	1×10^3	1×10^7	1×10^{12}	1×10^8
Be-10	1×10^4	1×10^6	1×10^{10}	1×10^7
Carbon				
C-11	1×10^1	1×10^6	1×10^{13}	1×10^7
C-11 monoxide	1×10^1	1×10^9	1×10^{12}	1×10^{10}
C-11 dioxide	1×10^1	1×10^9	1×10^{12}	1×10^{10}
C-14	1×10^4	1×10^7	1×10^{11}	1×10^8
C-14 monoxide	1×10^8	1×10^{11}	1×10^{14}	1×10^{12}
C-14 dioxide	1×10^7	1×10^{11}	1×10^{13}	1×10^{12}
Nitrogen				
N-13	1×10^2	1×10^9	1×10^9	
Oxygen				
O-15	1×10^2	1×10^9	1×10^{10}	
Fluorine				
F-18	1×10^1	1×10^6	1×10^{13}	1×10^7
Neon				
Ne-19	1×10^2	1×10^9	1×10^9	
Sodium				
Na-22	1×10^1	1×10^6	1×10^{10}	1×10^7
Na-24	1×10^1	1×10^5	1×10^{11}	1×10^6
Magnesium				
Mg-28+	1×10^1	1×10^5	1×10^{11}	1×10^6
Aluminium				
Al-26	1×10^1	1×10^5	1×10^{10}	1×10^6
a Note 1				
In the case of radionuclides not specified elsewhere in this Part, the quantities specified in this entry are to be used unless the Executive has approved some other quantity for that radionuclide.				
b Note 2				
Nuclides carrying the suffix“+” or “sec” in the above table represent parent nuclides in equilibrium with their correspondent daughter nuclides as listed in the following Table. In this case the concentrations and quantities given in the above Table refer to the parent nuclide alone, but already take account of the daughter nuclide(s) present.				

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Silicon				
Si-31	1 10 ³	1 10 ⁶	1 10 ¹³	1 10 ⁷
Si-32	1 10 ³	1 10 ⁶	1 10 ⁹	1 10 ⁷
Phosphorus				
P-32	1 10 ³	1 10 ⁵	1 10 ¹⁰	1 10 ⁶
P-33	1 10 ⁵	1 10 ⁸	1 10 ¹¹	1 10 ⁹
Sulphur				
S-35	1 10 ⁵	1 10 ⁸	1 10 ¹¹	1 10 ⁹
S-35 (organic)	1 10 ⁵	1 10 ⁸	1 10 ¹²	1 10 ⁹
S-35 Vapour	1 10 ⁶	1 10 ⁹	1 10 ¹²	
Chlorine				
Cl-36	1 10 ⁴	1 10 ⁶	1 10 ¹⁰	1 10 ⁷
Cl-38	1 10 ¹	1 10 ⁵	1 10 ¹³	1 10 ⁶
Cl-39	1 10 ¹	1 10 ⁵	1 10 ¹³	1 10 ⁶
Argon				
Ar-37	1 10 ⁶	1 10 ⁸	1 10 ¹³	
Ar-39	1 10 ⁷	1 10 ⁴	1 10 ¹²	
Ar-41	1 10 ²	1 10 ⁹	1 10 ⁹	
Potassium				
K-40	1 10 ²	1 10 ⁶	1 10 ¹⁰	1 10 ⁷
K-42	1 10 ²	1 10 ⁶	1 10 ¹²	1 10 ⁷
K-43	1 10 ¹	1 10 ⁶	1 10 ¹¹	1 10 ⁷
K-44	1 10 ¹	1 10 ⁵	1 10 ¹³	1 10 ⁶
K-45	1 10 ¹	1 10 ⁵	1 10 ¹³	1 10 ⁶
a	Note 1 In the case of radionuclides not specified elsewhere in this Part, the quantities specified in this entry are to be used unless the Executive has approved some other quantity for that radionuclide.			
b	Note 2 Nuclides carrying the suffix“+” or “sec” in the above table represent parent nuclides in equilibrium with their correspondent daughter nuclides as listed in the following Table. In this case the concentrations and quantities given in the above Table refer to the parent nuclide alone, but already take account of the daughter nuclide(s) present.			

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Calcium				
Ca-41	1 10 ⁵	1 10 ⁷	1 10 ¹²	1 10 ⁸
Ca-45	1 10 ⁴	1 10 ⁷	1 10 ¹⁰	1 10 ⁸
Ca-47	1 10 ¹	1 10 ⁶	1 10 ¹¹	1 10 ⁷
Scandium				
Sc-43	1 10 ¹	1 10 ⁶	1 10 ¹²	1 10 ⁷
Sc-44	1 10 ¹	1 10 ⁵	1 10 ¹²	1 10 ⁶
Sc-44m	1 10 ²	1 10 ⁷	1 10 ¹¹	1 10 ⁸
Sc-46	1 10 ¹	1 10 ⁶	1 10 ¹⁰	1 10 ⁷
Sc-47	1 10 ²	1 10 ⁶	1 10 ¹¹	1 10 ⁷
Sc-48	1 10 ¹	1 10 ⁵	1 10 ¹¹	1 10 ⁶
Sc-49	1 10 ³	1 10 ⁵	1 10 ¹⁴	1 10 ⁶
Titanium				
Ti-44+	1 10 ¹	1 10 ⁵	1 10 ⁹	1 10 ⁶
Ti-45	1 10 ¹	1 10 ⁶	1 10 ¹²	1 10 ⁷
Vanadium				
V-47	1 10 ¹	1 10 ⁵	1 10 ¹³	1 10 ⁶
V-48	1 10 ¹	1 10 ⁵	1 10 ¹⁰	1 10 ⁶
V-49	1 10 ⁴	1 10 ⁷	1 10 ¹²	1 10 ⁸
Chromium				
Cr-48	1 10 ²	1 10 ⁶	1 10 ¹²	1 10 ⁷
Cr-49	1 10 ¹	1 10 ⁶	1 10 ¹³	1 10 ⁷
Cr-51	1 10 ³	1 10 ⁷	1 10 ¹²	1 10 ⁸
Manganese				
a	Note 1 In the case of radionuclides not specified elsewhere in this Part, the quantities specified in this entry are to be used unless the Executive has approved some other quantity for that radionuclide.			
b	Note 2 Nuclides carrying the suffix“+” or “sec” in the above table represent parent nuclides in equilibrium with their correspondent daughter nuclides as listed in the following Table. In this case the concentrations and quantities given in the above Table refer to the parent nuclide alone, but already take account of the daughter nuclide(s) present.			

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Mn-51	1 10 ¹	1 10 ⁵	1 10 ¹³	1 10 ⁶
Mn-52	1 10 ¹	1 10 ⁵	1 10 ¹⁰	1 10 ⁶
Mn-52m	1 10 ¹	1 10 ⁵	1 10 ¹³	1 10 ⁶
Mn-53	1 10 ⁴	1 10 ⁹	1 10 ¹²	1 10 ¹⁰
Mn-54	1 10 ¹	1 10 ⁶	1 10 ¹¹	1 10 ⁷
Mn-56	1 10 ¹	1 10 ⁵	1 10 ¹²	1 10 ⁶
Iron				
Fe-52	1 10 ¹	1 10 ⁶	1 10 ¹²	1 10 ⁷
Fe-55	1 10 ⁴	1 10 ⁶	1 10 ¹¹	1 10 ⁷
Fe-59	1 10 ¹	1 10 ⁶	1 10 ¹⁰	1 10 ⁷
Fe-60+	1 10 ²	1 10 ⁵	1 10 ⁸	1 10 ⁶
Cobalt				
Co-55	1 10 ¹	1 10 ⁶	1 10 ¹¹	1 10 ⁷
Co-56	1 10 ¹	1 10 ⁵	1 10 ¹⁰	1 10 ⁶
Co-57	1 10 ²	1 10 ⁶	1 10 ¹¹	1 10 ⁷
Co-58	1 10 ¹	1 10 ⁶	1 10 ¹⁰	1 10 ⁷
Co-58m	1 10 ⁴	1 10 ⁷	1 10 ¹³	1 10 ⁸
Co-60	1 10 ¹	1 10 ⁵	1 10 ¹⁰	1 10 ⁶
Co-60m	1 10 ³	1 10 ⁶	1 10 ¹⁶	1 10 ⁷
Co-61	1 10 ²	1 10 ⁶	1 10 ¹³	1 10 ⁷
Co-62m	1 10 ¹	1 10 ⁵	1 10 ¹³	1 10 ⁶
Nickel				
Ni-56	1 10 ¹	1 10 ⁶	1 10 ¹¹	1 10 ⁷
Ni-57	1 10 ¹	1 10 ⁶	1 10 ¹¹	1 10 ⁷

a Note 1

In the case of radionuclides not specified elsewhere in this Part, the quantities specified in this entry are to be used unless the Executive has approved some other quantity for that radionuclide.

b Note 2

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Ni-59	1 10 ⁴	1 10 ⁸	1 10 ¹¹	1 10 ⁹
Ni-63	1 10 ⁵	1 10 ⁸	1 10 ¹¹	1 10 ⁹
Ni-65	1 10 ¹	1 10 ⁶	1 10 ¹³	1 10 ⁷
Ni-66	1 10 ⁴	1 10 ⁷	1 10 ¹¹	1 10 ⁸
Copper				
Cu-60	1 10 ¹	1 10 ⁵	1 10 ¹³	1 10 ⁶
Cu-61	1 10 ¹	1 10 ⁶	1 10 ¹²	1 10 ⁷
Cu-64	1 10 ²	1 10 ⁶	1 10 ¹²	1 10 ⁷
Cu-67	1 10 ²	1 10 ⁶	1 10 ¹¹	1 10 ⁷
Zinc				
Zn-62	1 10 ²	1 10 ⁶	1 10 ¹²	1 10 ⁷
Zn-63	1 10 ¹	1 10 ⁵	1 10 ¹³	1 10 ⁶
Zn-65	1 10 ¹	1 10 ⁶	1 10 ¹⁰	1 10 ⁷
Zn-69	1 10 ⁴	1 10 ⁶	1 10 ¹⁴	1 10 ⁷
Zn-69m	1 10 ²	1 10 ⁶	1 10 ¹²	1 10 ⁷
Zn-71m	1 10 ¹	1 10 ⁶	1 10 ¹²	1 10 ⁷
Zn-72	1 10 ²	1 10 ⁶	1 10 ¹¹	1 10 ⁷
Gallium				
Ga-65	1 10 ¹	1 10 ⁵	1 10 ¹³	1 10 ⁶
Ga-66	1 10 ¹	1 10 ⁵	1 10 ¹¹	1 10 ⁶
Ga-67	1 10 ²	1 10 ⁶	1 10 ¹¹	1 10 ⁷
Ga-68	1 10 ¹	1 10 ⁵	1 10 ¹³	1 10 ⁶
Ga-70	1 10 ³	1 10 ⁶	1 10 ¹⁴	1 10 ⁷
Ga-72	1 10 ¹	1 10 ⁵	1 10 ¹¹	1 10 ⁶

a Note 1

In the case of radionuclides not specified elsewhere in this Part, the quantities specified in this entry are to be used unless the Executive has approved some other quantity for that radionuclide.

b Note 2

Nuclides carrying the suffix "+" or "sec" in the above table represent parent nuclides in equilibrium with their correspondent daughter nuclides as listed in the following Table. In this case the concentrations and quantities given in the above Table refer to the parent nuclide alone, but already take account of the daughter nuclide(s) present.

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Ga-73	1 10 ²	1 10 ⁶	1 10 ¹²	1 10 ⁷
Germanium				
Ge-66	1 10 ¹	1 10 ⁶	1 10 ¹³	1 10 ⁷
Ge-67	1 10 ¹	1 10 ⁵	1 10 ¹³	1 10 ⁶
Ge-68+	1 10 ¹	1 10 ⁵	1 10 ¹⁰	1 10 ⁶
Ge-69	1 10 ¹	1 10 ⁶	1 10 ¹¹	1 10 ⁷
Ge-71	1 10 ⁴	1 10 ⁸	1 10 ¹³	1 10 ⁹
Ge-75	1 10 ³	1 10 ⁶	1 10 ¹⁴	1 10 ⁷
Ge-77	1 10 ¹	1 10 ⁵	1 10 ¹²	1 10 ⁶
Ge-78	1 10 ²	1 10 ⁶	1 10 ¹³	1 10 ⁷
Arsenic				
As-69	1 10 ¹	1 10 ⁵	1 10 ¹³	1 10 ⁶
As-70	1 10 ¹	1 10 ⁵	1 10 ¹²	1 10 ⁶
As-71	1 10 ¹	1 10 ⁶	1 10 ¹¹	1 10 ⁷
As-72	1 10 ¹	1 10 ⁵	1 10 ¹¹	1 10 ⁶
As-73	1 10 ³	1 10 ⁷	1 10 ¹¹	1 10 ⁸
As-74	1 10 ¹	1 10 ⁶	1 10 ¹¹	1 10 ⁷
As-76	1 10 ²	1 10 ⁵	1 10 ¹¹	1 10 ⁶
As-77	1 10 ³	1 10 ⁶	1 10 ¹²	1 10 ⁷
As-78	1 10 ¹	1 10 ⁵	1 10 ¹³	1 10 ⁶
Selenium				
Se-70	1 10 ¹	1 10 ⁶	1 10 ¹³	1 10 ⁷
Se-73	1 10 ¹	1 10 ⁶	1 10 ¹²	1 10 ⁷
Se-73m	1 10 ²	1 10 ⁶	1 10 ¹⁴	1 10 ⁷

a Note 1

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b Note 2

Nuclides carrying the suffix“+” or “sec” in the above table represent parent nuclides in equilibrium with their correspondent daughter nuclides as listed in the following Table. In this case the concentrations and quantities given in the above Table refer to the parent nuclide alone, but already take account of the daughter nuclide(s) present.

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Se-75	1 10 ²	1 10 ⁶	1 10 ¹¹	1 10 ⁷
Se-79	1 10 ⁴	1 10 ⁷	1 10 ¹⁰	1 10 ⁸
Se-81	1 10 ³	1 10 ⁶	1 10 ¹⁴	1 10 ⁷
Se-81m	1 10 ³	1 10 ⁷	1 10 ¹⁴	1 10 ⁸
Se-83	1 10 ¹	1 10 ⁵	1 10 ¹³	1 10 ⁶
Bromine				
Br-74	1 10 ¹	1 10 ⁵	1 10 ¹³	1 10 ⁶
Br-74m	1 10 ¹	1 10 ⁵	1 10 ¹²	1 10 ⁶
Br-75	1 10 ¹	1 10 ⁶	1 10 ¹³	1 10 ⁷
Br-76	1 10 ¹	1 10 ⁵	1 10 ¹¹	1 10 ⁶
Br-77	1 10 ²	1 10 ⁶	1 10 ¹²	1 10 ⁷
Br-80	1 10 ²	1 10 ⁵	1 10 ¹⁴	1 10 ⁶
Br-80m	1 10 ³	1 10 ⁷	1 10 ¹³	1 10 ⁸
Br-82	1 10 ¹	1 10 ⁶	1 10 ¹¹	1 10 ⁷
Br-83	1 10 ³	1 10 ⁶	1 10 ¹³	1 10 ⁷
Br-84	1 10 ¹	1 10 ⁵	1 10 ¹³	1 10 ⁶
Krypton				
Kr-74	1 10 ²	1 10 ⁹	1 10 ⁹	
Kr-76	1 10 ²	1 10 ⁹	1 10 ¹⁰	
Kr-77	1 10 ²	1 10 ⁹	1 10 ⁹	
Kr-79	1 10 ³	1 10 ⁵	1 10 ¹⁰	
Kr-81	1 10 ⁴	1 10 ⁷	1 10 ¹¹	
Kr-81m	1 10 ³	1 10 ¹⁰	1 10 ¹⁰	
Kr-83m	1 10 ⁵	1 10 ¹²	1 10 ¹²	

a Note 1

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b Note 2

Nuclides carrying the suffix “+” or “sec” in the above table represent parent nuclides in equilibrium with their correspondent daughter nuclides as listed in the following Table. In this case the concentrations and quantities given in the above Table refer to the parent nuclide alone, but already take account of the daughter nuclide(s) present.

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Kr-85	1×10^5	1×10^4	1×10^{12}	
Kr-85m	1×10^3	1×10^{10}	1×10^{10}	
Kr-87	1×10^2	1×10^9	1×10^9	
Kr-88	1×10^2	1×10^9	1×10^9	
Rubidium				
Rb-79	1×10^1	1×10^5	1×10^{13}	1×10^6
Rb-81	1×10^1	1×10^6	1×10^{12}	1×10^7
Rb-81m	1×10^3	1×10^7	1×10^{15}	1×10^8
Rb-82m	1×10^1	1×10^6	1×10^{12}	1×10^7
Rb-83+	1×10^2	1×10^6	1×10^{11}	1×10^7
Rb-84	1×10^1	1×10^6	1×10^{11}	1×10^7
Rb-86	1×10^2	1×10^5	1×10^{11}	1×10^6
Rb-87	1×10^4	1×10^7	1×10^{11}	1×10^8
Rb-88	1×10^1	1×10^5	1×10^{14}	1×10^6
Rb-89	1×10^1	1×10^5	1×10^{13}	1×10^6
Strontium				
Sr-80	1×10^3	1×10^7	1×10^{13}	1×10^8
Sr-81	1×10^1	1×10^5	1×10^{13}	1×10^6
Sr-82+	1×10^1	1×10^5	1×10^{10}	1×10^6
Sr-83	1×10^1	1×10^6	1×10^{11}	1×10^7
Sr-85	1×10^2	1×10^6	1×10^{11}	1×10^7
Sr-85m	1×10^2	1×10^7	1×10^{13}	1×10^8
Sr-87m	1×10^2	1×10^6	1×10^{13}	1×10^7
Sr-89	1×10^3	1×10^6	1×10^{10}	1×10^7

a Note 1

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b Note 2

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Sr-90+	1 10 ²	1 10 ⁴	1 10 ⁹	1 10 ⁵
Sr-91	1 10 ¹	1 10 ⁵	1 10 ¹²	1 10 ⁶
Sr-92	1 10 ¹	1 10 ⁶	1 10 ¹²	1 10 ⁷
Yttrium				
Y-86	1 10 ¹	1 10 ⁵	1 10 ¹¹	1 10 ⁶
Y-86m	1 10 ²	1 10 ⁷	1 10 ¹⁴	1 10 ⁸
Y-87+	1 10 ¹	1 10 ⁶	1 10 ¹¹	1 10 ⁷
Y-88	1 10 ¹	1 10 ⁶	1 10 ¹⁰	1 10 ⁷
Y-90	1 10 ³	1 10 ⁵	1 10 ¹¹	1 10 ⁶
Y-90m	1 10 ¹	1 10 ⁶	1 10 ¹²	1 10 ⁷
Y-91	1 10 ³	1 10 ⁶	1 10 ¹⁰	1 10 ⁷
Y-91m	1 10 ²	1 10 ⁶	1 10 ¹³	1 10 ⁷
Y-92	1 10 ²	1 10 ⁵	1 10 ¹²	1 10 ⁶
Y-93	1 10 ²	1 10 ⁵	1 10 ¹²	1 10 ⁶
Y-94	1 10 ¹	1 10 ⁵	1 10 ¹³	1 10 ⁶
Y-95	1 10 ¹	1 10 ⁵	1 10 ¹⁴	1 10 ⁶
Zirconium				
Zr-86	1 10 ²	1 10 ⁷	1 10 ¹²	1 10 ⁸
Zr-88	1 10 ²	1 10 ⁶	1 10 ¹⁰	1 10 ⁷
Zr-89	1 10 ¹	1 10 ⁶	1 10 ¹¹	1 10 ⁷
Zr-93+	1 10 ³	1 10 ⁷	1 10 ⁹	1 10 ⁸
Zr-95	1 10 ¹	1 10 ⁶	1 10 ¹⁰	1 10 ⁷
Zr-97+	1 10 ¹	1 10 ⁵	1 10 ¹¹	1 10 ⁶
Niobium				
a	Note 1			
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b	Note 2			
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Nb-88	1 10 ¹	1 10 ⁵	1 10 ¹³	1 10 ⁶
Nb-89 (2.03 hours)	1 10 ¹	1 10 ⁵	1 10 ¹²	1 10 ⁶
Nb-89 (1.01 hour)	1 10 ¹	1 10 ⁵	1 10 ¹³	1 10 ⁶
Nb-90	1 10 ¹	1 10 ⁵	1 10 ¹¹	1 10 ⁶
Nb-93m	1 10 ⁴	1 10 ⁷	1 10 ¹¹	1 10 ⁸
Nb-94	1 10 ¹	1 10 ⁶	1 10 ⁹	1 10 ⁷
Nb-95	1 10 ¹	1 10 ⁶	1 10 ¹¹	1 10 ⁷
Nb-95m	1 10 ²	1 10 ⁷	1 10 ¹¹	1 10 ⁸
Nb-96	1 10 ¹	1 10 ⁵	1 10 ¹¹	1 10 ⁶
Nb-97	1 10 ¹	1 10 ⁶	1 10 ¹³	1 10 ⁷
Nb-98	1 10 ¹	1 10 ⁵	1 10 ¹³	1 10 ⁶
Molybdenum				
Mo-90	1 10 ¹	1 10 ⁶	1 10 ¹²	1 10 ⁷
Mo-93	1 10 ³	1 10 ⁸	1 10 ¹¹	1 10 ⁹
Mo-93m	1 10 ¹	1 10 ⁶	1 10 ¹²	1 10 ⁷
Mo-99	1 10 ²	1 10 ⁶	1 10 ¹¹	1 10 ⁷
Mo-101	1 10 ¹	1 10 ⁶	1 10 ¹³	1 10 ⁷
Technetium				
Tc-93	1 10 ¹	1 10 ⁶	1 10 ¹²	1 10 ⁷
Tc-93m	1 10 ¹	1 10 ⁶	1 10 ¹³	1 10 ⁷
Tc-94	1 10 ¹	1 10 ⁶	1 10 ¹²	1 10 ⁷
Tc-94m	1 10 ¹	1 10 ⁵	1 10 ¹³	1 10 ⁶
Tc-95	1 10 ¹	1 10 ⁶	1 10 ¹²	1 10 ⁷
a	Note 1 In the case of radionuclides not specified elsewhere in this Part, the quantities specified in this entry are to be used unless the Executive has approved some other quantity for that radionuclide.			
b	Note 2 Nuclides carrying the suffix “+” or “sec” in the above table represent parent nuclides in equilibrium with their correspondent daughter nuclides as listed in the following Table. In this case the concentrations and quantities given in the above Table refer to the parent nuclide alone, but already take account of the daughter nuclide(s) present.			

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Tc-95m+	1 10 ¹	1 10 ⁶	1 10 ¹¹	1 10 ⁷
Tc-96	1 10 ¹	1 10 ⁶	1 10 ¹¹	1 10 ⁷
Tc-96m	1 10 ³	1 10 ⁷	1 10 ¹⁴	1 10 ⁸
Tc-97	1 10 ³	1 10 ⁸	1 10 ¹²	1 10 ⁹
Tc-97m	1 10 ³	1 10 ⁷	1 10 ¹⁰	1 10 ⁸
Tc-98	1 10 ¹	1 10 ⁶	1 10 ¹⁰	1 10 ⁷
Tc-99	1 10 ⁴	1 10 ⁷	1 10 ¹⁰	1 10 ⁸
Tc-99m	1 10 ²	1 10 ⁷	1 10 ¹³	1 10 ⁸
Tc-101	1 10 ²	1 10 ⁶	1 10 ¹⁴	1 10 ⁷
Tc-104	1 10 ¹	1 10 ⁵	1 10 ¹³	1 10 ⁶
Ruthenium				
Ru-94	1 10 ²	1 10 ⁶	1 10 ¹³	1 10 ⁷
Ru-97	1 10 ²	1 10 ⁷	1 10 ¹²	1 10 ⁸
Ru-103	1 10 ²	1 10 ⁶	1 10 ¹⁰	1 10 ⁷
Ru-105	1 10 ¹	1 10 ⁶	1 10 ¹²	1 10 ⁷
Ru-160+	1 10 ²	1 10 ⁵	1 10 ⁹	1 10 ⁶
Rhodium				
Rh-99	1 10 ¹	1 10 ⁶	1 10 ¹¹	1 10 ⁷
Rh-99m	1 10 ¹	1 10 ⁶	1 10 ¹²	1 10 ⁷
Rh-100	1 10 ¹	1 10 ⁶	1 10 ¹¹	1 10 ⁷
Rh-101	1 10 ²	1 10 ⁷	1 10 ¹⁰	1 10 ⁸
Rh-101m	1 10 ²	1 10 ⁷	1 10 ¹¹	1 10 ⁸
Rh-102	1 10 ¹	1 10 ⁶	1 10 ¹⁰	1 10 ⁷
Rh-102m	1 10 ²	1 10 ⁶	1 10 ¹⁰	1 10 ⁷

a Note 1

In the case of radionuclides not specified elsewhere in this Part, the quantities specified in this entry are to be used unless the Executive has approved some other quantity for that radionuclide.

b Note 2

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Rh-103m	1 10 ⁴	1 10 ⁸	1 10 ¹⁵	1 10 ⁹
Rh-105	1 10 ²	1 10 ⁷	1 10 ¹²	1 10 ⁸
Rh-106m	1 10 ¹	1 10 ⁵	1 10 ¹²	1 10 ⁶
Rh-107	1 10 ²	1 10 ⁶	1 10 ¹⁴	1 10 ⁷
Palladium				
Pd-100	1 10 ²	1 10 ⁷	1 10 ¹¹	1 10 ⁸
Pd-101	1 10 ²	1 10 ⁶	1 10 ¹²	1 10 ⁷
Pd-103	1 10 ³	1 10 ⁸	1 10 ¹¹	1 10 ⁹
Pd-107	1 10 ⁵	1 10 ⁸	1 10 ¹¹	1 10 ⁹
Pd-109;	1 10 ³	1 10 ⁶	1 10 ¹²	1 10 ⁷
Silver				
Ag-102	1 10 ¹	1 10 ⁵	1 10 ¹³	1 10 ⁶
Ag-103	1 10 ¹	1 10 ⁶	1 10 ¹³	1 10 ⁷
Ag-104	1 10 ¹	1 10 ⁶	1 10 ¹²	1 10 ⁷
Ag-104m	1 10 ¹	1 10 ⁶	1 10 ¹³	1 10 ⁷
Ag-105	1 10 ²	1 10 ⁶	1 10 ¹¹	1 10 ⁷
Ag-106	1 10 ¹	1 10 ⁶	1 10 ¹³	1 10 ⁷
Ag-106m	1 10 ¹	1 10 ⁶	1 10 ¹⁰	1 10 ⁷
Ag-108m+	1 10 ¹	1 10 ⁶	1 10 ¹⁰	1 10 ⁷
Ag-110m	1 10 ¹	1 10 ⁶	1 10 ¹⁰	1 10 ⁷
Ag-111	1 10 ³	1 10 ⁶	1 10 ¹¹	1 10 ⁷
Ag-112	1 10 ¹	1 10 ⁵	1 10 ¹²	1 10 ⁶
Ag-115	1 10 ¹	1 10 ⁵	1 10 ¹³	1 10 ⁶
Cadmium				
a	Note 1			
	In the case of radionuclides not specified elsewhere in this Part, the quantities specified in this entry are to be used unless the Executive has approved some other quantity for that radionuclide.			
b	Note 2			
	Nuclides carrying the suffix“+” or “sec” in the above table represent parent nuclides in equilibrium with their correspondent daughter nuclides as listed in the following Table. In this case the concentrations and quantities given in the above Table refer to the parent nuclide alone, but already take account of the daughter nuclide(s) present.			

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1 Radionuclide name, symbol, isotope	2 Concentration for notification. Regulation 6 and Schedule 1 (Bq/g)	3 Quantity for notification. Regulation 6 and Schedule 1 (Bq)	4 Quantity for notification of occurrences. Regulation 30(1) (Bq)	5 Quantity for notification of occurrences. Regulation 30(3) (Bq)
Cd-104	1×10^2	1×10^7	1×10^{13}	1×10^8
Cd-107	1×10^3	1×10^7	1×10^{13}	1×10^8
Cd-109	1×10^4	1×10^6	1×10^{10}	1×10^7
Cd-113	1×10^3	1×10^6	1×10^9	1×10^7
Cd-113m	1×10^3	1×10^6	1×10^9	1×10^7
Cd-115	1×10^2	1×10^6	1×10^{11}	1×10^7
Cd-115m	1×10^3	1×10^6	1×10^{10}	1×10^7
Cd-117	1×10^1	1×10^6	1×10^{12}	1×10^7
Cd-117m	1×10^1	1×10^6	1×10^{12}	1×10^7
Indium				
In-109	1×10^1	1×10^6	1×10^{12}	1×10^7
In-110 (4.9 hours)	1×10^1	1×10^6	1×10^{12}	1×10^7
In-110 (69.1 min)	1×10^1	1×10^5	1×10^{13}	1×10^6
In-111	1×10^2	1×10^6	1×10^{11}	1×10^7
In-112	1×10^2	1×10^6	1×10^{14}	1×10^7
In-113m	1×10^2	1×10^6	1×10^{13}	1×10^7
In-114	1×10^3	1×10^5	1×10^{15}	1×10^6
In-114m	1×10^2	1×10^6	1×10^{10}	1×10^7
In-115	1×10^3	1×10^5	1×10^8	1×10^6
In-115m	1×10^2	1×10^6	1×10^{13}	1×10^7
In-116m	1×10^1	1×10^5	1×10^{13}	1×10^6
In-117	1×10^1	1×10^6	1×10^{13}	1×10^7
In-117m	1×10^2	1×10^6	1×10^{13}	1×10^7
In-119m	1×10^2	1×10^5	1×10^{14}	1×10^6

a Note 1

In the case of radionuclides not specified elsewhere in this Part, the quantities specified in this entry are to be used unless the Executive has approved some other quantity for that radionuclide.

b Note 2

Nuclides carrying the suffix "+" or "sec" in the above table represent parent nuclides in equilibrium with their correspondent daughter nuclides as listed in the following Table. In this case the concentrations and quantities given in the above Table refer to the parent nuclide alone, but already take account of the daughter nuclide(s) present.

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Tin				
Sn-110	1 10 ²	1 10 ⁷	1 10 ¹²	1 10 ⁸
Sn-111	1 10 ²	1 10 ⁶	1 10 ¹³	1 10 ⁷
Sn-113	1 10 ³	1 10 ⁷	1 10 ¹¹	1 10 ⁸
Sn-117m	1 10 ²	1 10 ⁶	1 10 ¹¹	1 10 ⁷
Sn-119m	1 10 ³	1 10 ⁷	1 10 ¹¹	1 10 ⁸
Sn-121	1 10 ⁵	1 10 ⁷	1 10 ¹²	1 10 ⁸
Sn-121m+	1 10 ³	1 10 ⁷	1 10 ¹⁰	1 10 ⁸
Sn-123	1 10 ³	1 10 ⁶	1 10 ¹⁰	1 10 ⁷
Sn-123m	1 10 ²	1 10 ⁶	1 10 ¹⁴	1 10 ⁷
Sn-125	1 10 ²	1 10 ⁵	1 10 ¹⁰	1 10 ⁶
Sn-126+	1 10 ¹	1 10 ⁵	1 10 ¹⁰	1 10 ⁶
Sn-127	1 10 ¹	1 10 ⁶	1 10 ¹²	1 10 ⁷
Sn-128	1 10 ¹	1 10 ⁶	1 10 ¹³	1 10 ⁷
Antimony				
Sb-115	1 10 ¹	1 10 ⁶	1 10 ¹³	1 10 ⁷
Sb-116	1 10 ¹	1 10 ⁶	1 10 ¹³	1 10 ⁷
Sb-116m	1 10 ¹	1 10 ⁵	1 10 ¹²	1 10 ⁶
Sb-117	1 10 ²	1 10 ⁷	1 10 ¹³	1 10 ⁸
Sb-118m	1 10 ¹	1 10 ⁶	1 10 ¹²	1 10 ⁷
Sb-119	1 10 ³	1 10 ⁷	1 10 ¹²	1 10 ⁸
Sb-120 (5.76 days)	1 10 ¹	1 10 ⁶	1 10 ¹⁰	1 10 ⁷
Sb-120 (15.89 min)	1 10 ²	1 10 ⁶	1 10 ¹⁴	1 10 ⁷

a Note 1

In the case of radionuclides not specified elsewhere in this Part, the quantities specified in this entry are to be used unless the Executive has approved some other quantity for that radionuclide.

b Note 2

Nuclides carrying the suffix“+” or “sec” in the above table represent parent nuclides in equilibrium with their correspondent daughter nuclides as listed in the following Table. In this case the concentrations and quantities given in the above Table refer to the parent nuclide alone, but already take account of the daughter nuclide(s) present.

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Sb-122	1×10^2	1×10^4	1×10^{11}	1×10^5
Sb-124	1×10^1	1×10^6	1×10^{10}	1×10^7
Sb-124m	1×10^2	1×10^6	1×10^{14}	1×10^7
Sb-125	1×10^2	1×10^6	1×10^{10}	1×10^7
Sb-126	1×10^1	1×10^5	1×10^{10}	1×10^6
Sb-126m	1×10^1	1×10^5	1×10^{13}	1×10^6
Sb-127	1×10^1	1×10^6	1×10^{11}	1×10^7
Sb-128 (9.01 hours)	1×10^1	1×10^5	1×10^{11}	1×10^6
Sb-128 (10.4 min)	1×10^1	1×10^5	1×10^{13}	1×10^6
Sb-129	1×10^1	1×10^6	1×10^{12}	1×10^7
Sb-130	1×10^1	1×10^5	1×10^{13}	1×10^6
Sb-131	1×10^1	1×10^6	1×10^{13}	1×10^7
Tellurium				
Te-116	1×10^2	1×10^7	1×10^{13}	1×10^8
Te-121	1×10^1	1×10^6	1×10^{11}	1×10^7
Te-121m	1×10^2	1×10^6	1×10^{10}	1×10^7
Te-123	1×10^3	1×10^6	1×10^{10}	1×10^7
Te-123m	1×10^2	1×10^7	1×10^{10}	1×10^8
Te-125m	1×10^3	1×10^7	1×10^{10}	1×10^8
Te-127	1×10^3	1×10^6	1×10^{12}	1×10^7
Te-127m	1×10^3	1×10^7	1×10^{10}	1×10^8
Te-129	1×10^2	1×10^6	1×10^{14}	1×10^7
Te-129m	1×10^3	1×10^6	1×10^{10}	1×10^7

a Note 1

In the case of radionuclides not specified elsewhere in this Part, the quantities specified in this entry are to be used unless the Executive has approved some other quantity for that radionuclide.

b Note 2

Nuclides carrying the suffix “+” or “sec” in the above table represent parent nuclides in equilibrium with their correspondent daughter nuclides as listed in the following Table. In this case the concentrations and quantities given in the above Table refer to the parent nuclide alone, but already take account of the daughter nuclide(s) present.

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Te-131	1×10^2	1×10^5	1×10^{14}	1×10^6
Te-131m	1×10^1	1×10^6	1×10^{11}	1×10^7
Te-132	1×10^2	1×10^7	1×10^{11}	1×10^8
Te-133	1×10^1	1×10^5	1×10^{14}	1×10^6
Te-133m	1×10^1	1×10^5	1×10^{13}	1×10^6
Te-134	1×10^1	1×10^6	1×10^{13}	1×10^7
Iodine				
I-120	1×10^1	1×10^5	1×10^{12}	1×10^6
I-120m	1×10^1	1×10^5	1×10^{12}	1×10^6
I-121	1×10^2	1×10^6	1×10^{13}	1×10^7
I-123	1×10^2	1×10^7	1×10^{12}	1×10^8
I-124	1×10^1	1×10^6	1×10^{10}	1×10^7
I-125	1×10^3	1×10^6	1×10^{10}	1×10^7
I-126	1×10^2	1×10^6	1×10^{10}	1×10^7
I-128	1×10^2	1×10^5	1×10^{14}	1×10^6
I-129	1×10^2	1×10^5	1×10^9	1×10^6
I-130	1×10^1	1×10^6	1×10^{11}	1×10^7
I-131	1×10^2	1×10^6	1×10^{10}	1×10^7
I-132	1×10^1	1×10^5	1×10^{12}	1×10^6
I-132m	1×10^2	1×10^6	1×10^{13}	1×10^7
I-133	1×10^1	1×10^6	1×10^{11}	1×10^7
I-134	1×10^1	1×10^5	1×10^{13}	1×10^6
I-135	1×10^1	1×10^6	1×10^{12}	1×10^7
Xenon				

a Note 1

In the case of radionuclides not specified elsewhere in this Part, the quantities specified in this entry are to be used unless the Executive has approved some other quantity for that radionuclide.

b Note 2

Nuclides carrying the suffix “+” or “sec” in the above table represent parent nuclides in equilibrium with their correspondent daughter nuclides as listed in the following Table. In this case the concentrations and quantities given in the above Table refer to the parent nuclide alone, but already take account of the daughter nuclide(s) present.

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Xe-120	1 10 ²	1 10 ⁹	1 10 ¹⁰	
Xe-121	1 10 ²	1 10 ⁹	1 10 ⁹	
Xe-122+	1 10 ²	1 10 ⁹	1 10 ¹¹	
Xe-123	1 10 ²	1 10 ⁹	1 10 ⁹	
Xe-125	1 10 ³	1 10 ⁹	1 10 ¹⁰	
Xe-127	1 10 ³	1 10 ⁵	1 10 ¹⁰	
Xe-129m	1 10 ³	1 10 ⁴	1 10 ¹¹	
Xe-131m	1 10 ⁴	1 10 ⁴	1 10 ¹¹	
Xe-133	1 10 ³	1 10 ⁴	1 10 ¹¹	
Xe-133m	1 10 ³	1 10 ⁴	1 10 ¹¹	
Xe-135	1 10 ³	1 10 ¹⁰	1 10 ¹⁰	
Xe-135m	1 10 ²	1 10 ⁹	1 10 ¹⁰	
Xe-138	1 10 ²	1 10 ⁹	1 10 ⁹	
Caesium				
Cs-125	1 10 ¹	1 10 ⁴	1 10 ¹³	1 10 ⁵
Cs-127	1 10 ²	1 10 ⁵	1 10 ¹²	1 10 ⁶
Cs-129	1 10 ²	1 10 ⁵	1 10 ¹²	1 10 ⁶
Cs-130				
1 10 ²	1 10 ⁶	1 10 ¹⁴	1 10 ⁷	
Cs-131	1 10 ³	1 10 ⁶	1 10 ¹²	1 10 ⁷
Cs-132	1 10 ¹	1 10 ⁵	1 10 ¹¹	1 10 ⁶
Cs-134	1 10 ¹	1 10 ⁴	1 10 ¹⁰	1 10 ⁵
Cs-134m	1 10 ³	1 10 ⁵	1 10 ¹⁴	1 10 ⁶
Cs-135	1 10 ⁴	1 10 ⁷	1 10 ¹¹	1 10 ⁸

a Note 1

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b Note 2

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Cs-135m	1 10 ¹	1 10 ⁶	1 10 ¹³	1 10 ⁷
Cs-136	1 10 ¹	1 10 ⁵	1 10 ¹⁰	1 10 ⁶
Cs-137+	1 10 ¹	1 10 ⁴	1 10 ¹⁰	1 10 ⁵
Cs-138	1 10 ¹	1 10 ⁴	1 10 ¹³	1 10 ⁵
Barium				
Ba-126	1 10 ²	1 10 ⁷	1 10 ¹³	1 10 ⁸
Ba-128	1 10 ²	1 10 ⁷	1 10 ¹¹	1 10 ⁸
Ba-131	1 10 ²	1 10 ⁶	1 10 ¹¹	1 10 ⁷
Ba-131m	1 10 ²	1 10 ⁷	1 10 ¹⁵	1 10 ⁸
Ba-133	1 10 ²	1 10 ⁶	1 10 ¹¹	1 10 ⁷
Ba-133m	1 10 ²	1 10 ⁶	1 10 ¹²	1 10 ⁷
Ba-135m	1 10 ²	1 10 ⁶	1 10 ¹²	1 10 ⁷
Ba-137m	1 10 ¹	1 10 ⁶	1 10 ¹⁵	1 10 ⁷
Ba-139	1 10 ²	1 10 ⁵	1 10 ¹³	1 10 ⁶
Ba-140+	1 10 ¹	1 10 ⁵	1 10 ¹¹	1 10 ⁶
Ba-141	1 10 ¹	1 10 ⁵	1 10 ¹³	1 10 ⁶
Ba-142	1 10 ¹	1 10 ⁶	1 10 ¹⁴	1 10 ⁷
Lanthanum				
La-131	1 10 ¹	1 10 ⁶	1 10 ¹³	1 10 ⁷
La-132	1 10 ¹	1 10 ⁶	1 10 ¹²	1 10 ⁷
La-135	1 10 ³	1 10 ⁷	1 10 ¹³	1 10 ⁸
La-137	1 10 ³	1 10 ⁷	1 10 ¹⁰	1 10 ⁸
La-138	1 10 ¹	1 10 ⁶	1 10 ⁹	1 10 ⁷
La-140	1 10 ¹	1 10 ⁵	1 10 ¹¹	1 10 ⁶

a Note 1

In the case of radionuclides not specified elsewhere in this Part, the quantities specified in this entry are to be used unless the Executive has approved some other quantity for that radionuclide.

b Note 2

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La-141	1×10^2	1×10^5	1×10^{13}	1×10^6
La-142	1×10^1	1×10^5	1×10^{12}	1×10^6
La-143	1×10^2	1×10^5	1×10^{14}	1×10^6
Cerium				
Ce-134	1×10^3	1×10^7	1×10^{11}	1×10^8
Ce-135	1×10^1	1×10^6	1×10^{11}	1×10^7
Ce-137	1×10^3	1×10^7	1×10^{13}	1×10^8
Ce-137m	1×10^3	1×10^6	1×10^{11}	1×10^7
Ce-139	1×10^2	1×10^6	1×10^{11}	1×10^7
Ce-141	1×10^2	1×10^7	1×10^{10}	1×10^8
Ce-143	1×10^2	1×10^6	1×10^{11}	1×10^7
Ce-144+	1×10^2	1×10^5	1×10^9	1×10^6
Praseodymium				
Pr-136	1×10^1	1×10^5	1×10^{13}	1×10^6
Pr-137	1×10^2	1×10^6	1×10^{13}	1×10^7
Pr-138m	1×10^1	1×10^6	1×10^{12}	1×10^7
Pr-139	1×10^2	1×10^7	1×10^{13}	1×10^8
Pr-142	1×10^2	1×10^5	1×10^{12}	1×10^6
Pr-142m	1×10^7	1×10^9	1×10^{15}	1×10^{10}
Pr-143	1×10^4	1×10^6	1×10^{11}	1×10^7
Pr-144	1×10^2	1×10^5	1×10^{14}	1×10^6
Pr-145	1×10^3	1×10^5	1×10^{12}	1×10^6
Pr-147	1×10^1	1×10^5	1×10^{14}	1×10^6
Neodymium				
a	Note 1			
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b	Note 2			
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Nd-136	1×10^2	1×10^6	1×10^{13}	1×10^7
Nd-138	1×10^3	1×10^7	1×10^{12}	1×10^8
Nd-139	1×10^2	1×10^6	1×10^{14}	1×10^7
Nd-139m	1×10^1	1×10^6	1×10^{12}	1×10^7
Nd-141	1×10^2	1×10^7	1×10^{14}	1×10^8
Nd-147	1×10^2	1×10^6	1×10^{11}	1×10^7
Nd-149	1×10^2	1×10^6	1×10^{13}	1×10^7
Nd-151	1×10^1	1×10^5	1×10^{14}	1×10^6
Promethium				
Pm-141	1×10^1	1×10^5	1×10^{13}	1×10^6
Pm-143	1×10^2	1×10^6	1×10^{11}	1×10^7
Pm-144	1×10^1	1×10^6	1×10^{10}	1×10^7
Pm-145	1×10^3	1×10^7	1×10^{10}	1×10^8
Pm-146	1×10^1	1×10^6	1×10^{10}	1×10^7
Pm-147	1×10^4	1×10^7	1×10^{10}	1×10^8
Pm-148	1×10^1	1×10^5	1×10^{11}	1×10^6
Pm-148m+	1×10^1	1×10^6	1×10^{10}	1×10^7
Pm-149	1×10^3	1×10^6	1×10^{11}	1×10^7
Pm-150	1×10^1	1×10^5	1×10^{12}	1×10^6
Pm-151	1×10^2	1×10^6	1×10^{11}	1×10^7
Samarium				
Sm-141	1×10^1	1×10^5	1×10^{13}	1×10^6
Sm-141m	1×10^1	1×10^6	1×10^{13}	1×10^7
Sm-142	1×10^2	1×10^7	1×10^{13}	1×10^8

a Note 1

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b Note 2

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Sm-145	1×10^2	1×10^7	1×10^{11}	1×10^8
Sm-146	1×10^1	1×10^5	1×10^7	1×10^6
Sm-147	1×10^1	1×10^4	1×10^7	1×10^5
Sm-151	1×10^4	1×10^8	1×10^{10}	1×10^9
Sm-153	1×10^2	1×10^6	1×10^{11}	1×10^7
Sm-155	1×10^2	1×10^6	1×10^{14}	1×10^7
Sm-156	1×10^2	1×10^6	1×10^{12}	1×10^7
Europium				
Eu-145	1×10^1	1×10^6	1×10^{11}	1×10^7
Eu-146	1×10^1	1×10^6	1×10^{11}	1×10^7
Eu-147	1×10^2	1×10^6	1×10^{11}	1×10^7
Eu-148	1×10^1	1×10^6	1×10^{10}	1×10^7
Eu-149	1×10^2	1×10^7	1×10^{11}	1×10^8
Eu-150 (34.2 years)	1×10^1	1×10^6	1×10^9	1×10^7
Eu-150 (12.6 hours)	1×10^3	1×10^6	1×10^{12}	1×10^7
Eu-152	1×10^1	1×10^6	1×10^9	1×10^7
Eu-152m	1×10^2	1×10^6	1×10^{12}	1×10^7
Eu-154	1×10^1	1×10^6	1×10^9	1×10^7
Eu-155	1×10^2	1×10^7	1×10^{10}	1×10^8
Eu-156	1×10^1	1×10^6	1×10^{10}	1×10^7
Eu-157	1×10^2	1×10^6	1×10^{12}	1×10^7
Eu-158	1×10^1	1×10^5	1×10^{13}	1×10^6
Gadolinium				

a Note 1

In the case of radionuclides not specified elsewhere in this Part, the quantities specified in this entry are to be used unless the Executive has approved some other quantity for that radionuclide.

b Note 2

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Gd-145	1 10 ¹	1 10 ⁵	1 10 ¹³	1 10 ⁶
Gd-146+	1 10 ¹	1 10 ⁶	1 10 ¹⁰	1 10 ⁷
Gd-147	1 10 ¹	1 10 ⁶	1 10 ¹¹	1 10 ⁷
Gd-148	1 10 ¹	1 10 ⁴	1 10 ⁶	1 10 ⁵
Gd-149	1 10 ²	1 10 ⁶	1 10 ¹¹	1 10 ⁷
Gd-151	1 10 ²	1 10 ⁷	1 10 ¹¹	1 10 ⁸
Gd-152	1 10 ¹	1 10 ⁴	1 10 ⁶	1 10 ⁵
Gd-153	1 10 ²	1 10 ⁷	1 10 ¹⁰	1 10 ⁸
Gd-159	1 10 ³	1 10 ⁶	1 10 ¹²	1 10 ⁷
Terbium				
Tb-147	1 10 ¹	1 10 ⁶	1 10 ¹²	1 10 ⁷
Tb-149	1 10 ¹	1 10 ⁶	1 10 ¹¹	1 10 ⁷
Tb-150	1 10 ¹	1 10 ⁶	1 10 ¹²	1 10 ⁷
Tb-151	1 10 ¹	1 10 ⁶	1 10 ¹²	1 10 ⁷
Tb-153	1 10 ²	1 10 ⁷	1 10 ¹²	1 10 ⁸
Tb-154	1 10 ¹	1 10 ⁶	1 10 ¹¹	1 10 ⁷
Tb-155	1 10 ²	1 10 ⁷	1 10 ¹¹	1 10 ⁸
Tb-156	1 10 ¹	1 10 ⁶	1 10 ¹¹	1 10 ⁷
Tb-156m (24.4 hours)	1 10 ³	1 10 ⁷	1 10 ¹²	1 10 ⁸
Tb-156m (5 hours)	1 10 ⁴	1 10 ⁷	1 10 ¹³	1 10 ⁸
Tb-157	1 10 ⁴	1 10 ⁷	1 10 ¹¹	1 10 ⁸
Tb-158	1 10 ¹	1 10 ⁶	1 10 ⁹	1 10 ⁷
Tb-160	1 10 ¹	1 10 ⁶	1 10 ¹⁰	1 10 ⁷

a Note 1

In the case of radionuclides not specified elsewhere in this Part, the quantities specified in this entry are to be used unless the Executive has approved some other quantity for that radionuclide.

b Note 2

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Tb-161	1 10 ³	1 10 ⁶	1 10 ¹¹	1 10 ⁷
Dysprosium				
Dy-155	1 10 ¹	1 10 ⁶	1 10 ¹²	1 10 ⁷
Dy-157	1 10 ²	1 10 ⁶	1 10 ¹²	1 10 ⁷
Dy-159	1 10 ³	1 10 ⁷	1 10 ¹¹	1 10 ⁸
Dy-165	1 10 ³	1 10 ⁶	1 10 ¹³	1 10 ⁷
Dy-166	1 10 ³	1 10 ⁶	1 10 ¹¹	1 10 ⁷
Holmium				
Ho-155	1 10 ²	1 10 ⁶	1 10 ¹³	1 10 ⁷
Ho-157	1 10 ²	1 10 ⁶	1 10 ¹⁴	1 10 ⁷
Ho-159	1 10 ²	1 10 ⁶	1 10 ¹⁴	1 10 ⁷
Ho-161	1 10 ²	1 10 ⁷	1 10 ¹⁴	1 10 ⁸
Ho-162	1 10 ²	1 10 ⁷	1 10 ¹⁴	1 10 ⁸
Ho-162m	1 10 ¹	1 10 ⁶	1 10 ¹³	1 10 ⁷
Ho-164	1 10 ³	1 10 ⁶	1 10 ¹⁴	1 10 ⁷
Ho-164m	1 10 ³	1 10 ⁷	1 10 ¹⁴	1 10 ⁸
Ho-166	1 10 ³	1 10 ⁵	1 10 ¹¹	1 10 ⁶
Ho-166m	1 10 ¹	1 10 ⁶	1 10 ⁹	1 10 ⁷
Ho-167	1 10 ²	1 10 ⁶	1 10 ¹³	1 10 ⁷
Erbium				
Er-161	1 10 ¹	1 10 ⁶	1 10 ¹²	1 10 ⁷
Er-165	1 10 ³	1 10 ⁷	1 10 ¹³	1 10 ⁸
Er-169	1 10 ⁴	1 10 ⁷	1 10 ¹¹	1 10 ⁸
Er-171	1 10 ²	1 10 ⁶	1 10 ¹²	1 10 ⁷

a Note 1

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b Note 2

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Er-172	1 10 ²	1 10 ⁶	1 10 ¹¹	1 10 ⁷
Thulium				
Tm-162	1 10 ¹	1 10 ⁶	1 10 ¹³	1 10 ⁷
Tm-166	1 10 ¹	1 10 ⁶	1 10 ¹²	1 10 ⁷
Tm-167	1 10 ²	1 10 ⁶	1 10 ¹¹	1 10 ⁷
Tm-170	1 10 ³	1 10 ⁶	1 10 ¹⁰	1 10 ⁷
Tm-171	1 10 ⁴	1 10 ⁸	1 10 ¹¹	1 10 ⁹
Tm-172	1 10 ²	1 10 ⁶	1 10 ¹¹	1 10 ⁷
Tm-173	1 10 ²	1 10 ⁶	1 10 ¹²	1 10 ⁷
Tm-175	1 10 ¹	1 10 ⁶	1 10 ¹³	1 10 ⁷
Ytterbium				
Yb-162	1 10 ²	1 10 ⁷	1 10 ¹⁴	1 10 ⁸
Yb-166	1 10 ²	1 10 ⁷	1 10 ¹¹	1 10 ⁸
Yb-167	1 10 ²	1 10 ⁶	1 10 ¹⁴	1 10 ⁷
Yb-169	1 10 ²	1 10 ⁷	1 10 ¹⁰	1 10 ⁸
Yb-175	1 10 ³	1 10 ⁷	1 10 ¹¹	1 10 ⁸
Yb-177	1 10 ²	1 10 ⁶	1 10 ¹³	1 10 ⁷
Yb-178	1 10 ³	1 10 ⁶	1 10 ¹³	1 10 ⁷
Lutetium				
Lu-169	1 10 ¹	1 10 ⁶	1 10 ¹¹	1 10 ⁷
Lu-170	1 10 ¹	1 10 ⁶	1 10 ¹¹	1 10 ⁷
Lu-171	1 10 ¹	1 10 ⁶	1 10 ¹¹	1 10 ⁷
Lu-172	1 10 ¹	1 10 ⁶	1 10 ¹⁰	1 10 ⁷
Lu-173	1 10 ²	1 10 ⁷	1 10 ¹¹	1 10 ⁸

a Note 1

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b Note 2

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Lu-174	1×10^2	1×10^7	1×10^{10}	1×10^8
Lu-174m	1×10^2	1×10^7	1×10^{10}	1×10^8
Lu-176	1×10^2	1×10^6	1×10^9	1×10^7
Lu-176m	1×10^3	1×10^6	1×10^{13}	1×10^7
Lu-177	1×10^3	1×10^7	1×10^{11}	1×10^8
Lu-177m	1×10^1	1×10^6	1×10^{10}	1×10^7
Lu-178	1×10^2	1×10^5	1×10^{14}	1×10^6
Lu-178m	1×10^1	1×10^5	1×10^{13}	1×10^6
Lu-179	1×10^3	1×10^6	1×10^{13}	1×10^7
Hafnium				
Hf-170	1×10^2	1×10^6	1×10^{12}	1×10^7
Hf-172+	1×10^1	1×10^6	1×10^9	1×10^7
Hf-173	1×10^2	1×10^6	1×10^{12}	1×10^7
Hf-175	1×10^2	1×10^6	1×10^{11}	1×10^7
Hf-177m	1×10^1	1×10^5	1×10^{13}	1×10^6
Hf-178m	1×10^1	1×10^6	1×10^8	1×10^7
Hf-179m	1×10^1	1×10^6	1×10^{10}	1×10^7
Hf-180m	1×10^1	1×10^6	1×10^{12}	1×10^7
Hf-181	1×10^1	1×10^6	1×10^{10}	1×10^7
Hf-182	1×10^2	1×10^6	1×10^8	1×10^7
Hf-182m	1×10^1	1×10^6	1×10^{13}	1×10^7
Hf-183	1×10^1	1×10^6	1×10^{13}	1×10^7
Hf-184	1×10^2	1×10^6	1×10^{12}	1×10^7
Tantalum				
a	Note 1			
	In the case of radionuclides not specified elsewhere in this Part, the quantities specified in this entry are to be used unless the Executive has approved some other quantity for that radionuclide.			
b	Note 2			
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Ta-172	1 10 ¹	1 10 ⁶	1 10 ¹³	1 10 ⁷
Ta-173	1 10 ¹	1 10 ⁶	1 10 ¹²	1 10 ⁷
Ta-174	1 10 ¹	1 10 ⁶	1 10 ¹³	1 10 ⁷
Ta-175	1 10 ¹	1 10 ⁶	1 10 ¹⁰	1 10 ⁷
Ta-176	1 10 ¹	1 10 ⁶	1 10 ¹²	1 10 ⁷
Ta-177	1 10 ²	1 10 ⁷	1 10 ¹²	1 10 ⁸
Ta-178	1 10 ¹	1 10 ⁶	1 10 ¹³	1 10 ⁷
Ta-179	1 10 ³	1 10 ⁷	1 10 ¹¹	1 10 ⁸
Ta-180	1 10 ¹	1 10 ⁶	1 10 ¹⁰	1 10 ⁷
Ta-180m	1 10 ³	1 10 ⁷	1 10 ¹³	1 10 ⁸
Ta-182	1 10 ¹	1 10 ⁴	1 10 ¹⁰	1 10 ⁵
Ta-182m	1 10 ²	1 10 ⁶	1 10 ¹⁴	1 10 ⁷
Ta-183	1 10 ²	1 10 ⁶	1 10 ¹¹	1 10 ⁷
Ta-184	1 10 ¹	1 10 ⁶	1 10 ¹²	1 10 ⁷
Ta-185	1 10 ²	1 10 ⁵	1 10 ¹³	1 10 ⁶
Ta-186	1 10 ¹	1 10 ⁵	1 10 ¹³	1 10 ⁶
Tungsten				
W-176	1 10 ²	1 10 ⁶	1 10 ¹³	1 10 ⁷
W-177	1 10 ¹	1 10 ⁶	1 10 ¹³	1 10 ⁷
W-178+	1 10 ¹	1 10 ⁶	1 10 ¹²	1 10 ⁷
W-179	1 10 ²	1 10 ⁷	1 10 ¹⁴	1 10 ⁸
W-181	1 10 ³	1 10 ⁷	1 10 ¹²	1 10 ⁸
W-185	1 10 ⁴	1 10 ⁷	1 10 ¹¹	1 10 ⁸
W-187	1 10 ²	1 10 ⁶	1 10 ¹²	1 10 ⁷

a Note 1

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b Note 2

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W-188+	1 10 ²	1 10 ⁵	1 10 ¹¹	1 10 ⁶
Rhenium				
Re-177	1 10 ¹	1 10 ⁶	1 10 ¹⁴	1 10 ⁷
Re-178	1 10 ¹	1 10 ⁶	1 10 ¹³	1 10 ⁷
Re-181	1 10 ¹	1 10 ⁶	1 10 ¹¹	1 10 ⁷
Re-182 (64 hours)	1 10 ¹	1 10 ⁶	1 10 ¹¹	1 10 ⁷
Re-182 (12.7 hours)	1 10 ¹	1 10 ⁶	1 10 ¹²	1 10 ⁷
Re-184	1 10 ¹	1 10 ⁶	1 10 ¹⁰	1 10 ⁷
Re-184m	1 10 ²	1 10 ⁶	1 10 ¹⁰	1 10 ⁷
Re-186	1 10 ³	1 10 ⁶	1 10 ¹¹	1 10 ⁷
Re-186m	1 10 ³	1 10 ⁷	1 10 ¹⁰	1 10 ⁸
Re-187	1 10 ⁶	1 10 ⁹	1 10 ¹³	1 10 ¹⁰
Re-188	1 10 ²	1 10 ⁵	1 10 ¹²	1 10 ⁶
Re-188m	1 10 ²	1 10 ⁷	1 10 ¹⁴	1 10 ⁸
Re-189+	1 10 ²	1 10 ⁶	1 10 ¹²	1 10 ⁷
Osmium				
Os-180	1 10 ²	1 10 ⁷	1 10 ¹⁴	1 10 ⁸
Os-181	1 10 ¹	1 10 ⁶	1 10 ¹³	1 10 ⁷
Os-182	1 10 ²	1 10 ⁶	1 10 ¹¹	1 10 ⁷
Os-185	1 10 ¹	1 10 ⁶	1 10 ¹¹	1 10 ⁷
Os-189m	1 10 ⁴	1 10 ⁷	1 10 ¹⁴	1 10 ⁸
Os-191	1 10 ²	1 10 ⁷	1 10 ¹¹	1 10 ⁸
Os-191m	1 10 ³	1 10 ⁷	1 10 ¹²	1 10 ⁸
a	Note 1 In the case of radionuclides not specified elsewhere in this Part, the quantities specified in this entry are to be used unless the Executive has approved some other quantity for that radionuclide.			
b	Note 2 Nuclides carrying the suffix “+” or “sec” in the above table represent parent nuclides in equilibrium with their correspondent daughter nuclides as listed in the following Table. In this case the concentrations and quantities given in the above Table refer to the parent nuclide alone, but already take account of the daughter nuclide(s) present.			

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Os-193	1 10 ²	1 10 ⁶	1 10 ¹¹	1 10 ⁷
Os-194+	1 10 ²	1 10 ⁵	1 10 ⁹	1 10 ⁶
Iridium				
Ir-182	1 10 ¹	1 10 ⁵	1 10 ¹³	1 10 ⁶
Ir-184	1 10 ¹	1 10 ⁶	1 10 ¹²	1 10 ⁷
Ir-185	1 10 ¹	1 10 ⁶	1 10 ¹²	1 10 ⁷
Ir-186 (15.8 hours)	1 10 ¹	1 10 ⁶	1 10 ¹¹	1 10 ⁷
Ir-186 (1.75 hours)	1 10 ¹	1 10 ⁶	1 10 ¹³	1 10 ⁷
Ir-187	1 10 ²	1 10 ⁶	1 10 ¹²	1 10 ⁷
Ir-188	1 10 ¹	1 10 ⁶	1 10 ¹¹	1 10 ⁷
Ir-189+	1 10 ²	1 10 ⁷	1 10 ¹¹	1 10 ⁸
Ir-190	1 10 ¹	1 10 ⁶	1 10 ¹⁰	1 10 ⁷
Ir-190m (3.1 hours)	1 10 ¹	1 10 ⁶	1 10 ¹³	1 10 ⁷
Ir-190m (1.2 hours)	1 10 ⁴	1 10 ⁷	1 10 ¹⁵	1 10 ⁸
Ir-192	1 10 ¹	1 10 ⁴	1 10 ¹⁰	1 10 ⁵
Ir-192m	1 10 ²	1 10 ⁷	1 10 ¹⁰	1 10 ⁸
Ir-193m	1 10 ⁴	1 10 ⁷	1 10 ¹¹	1 10 ⁸
Ir-194	1 10 ²	1 10 ⁵	1 10 ¹¹	1 10 ⁶
Ir-194m	1 10 ¹	1 10 ⁶	1 10 ¹⁰	1 10 ⁷
Ir-195	1 10 ²	1 10 ⁶	1 10 ¹³	1 10 ⁷
Ir-195m	1 10 ²	1 10 ⁶	1 10 ¹²	1 10 ⁷
Platinum				

a Note 1

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b Note 2

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Pt-186	1 10 ¹	1 10 ⁶	1 10 ¹³	1 10 ⁷
Pt-188+	1 10 ¹	1 10 ⁶	1 10 ¹¹	1 10 ⁷
Pt-189	1 10 ²	1 10 ⁶	1 10 ¹²	1 10 ⁷
Pt-191	1 10 ²	1 10 ⁶	1 10 ¹¹	1 10 ⁷
Pt-193	1 10 ⁴	1 10 ⁷	1 10 ¹²	1 10 ⁸
Pt-193m	1 10 ³	1 10 ⁷	1 10 ¹²	1 10 ⁸
Pt-195m	1 10 ²	1 10 ⁶	1 10 ¹¹	1 10 ⁷
Pt-197	1 10 ³	1 10 ⁶	1 10 ¹²	1 10 ⁷
Pt-197m	1 10 ²	1 10 ⁶	1 10 ¹⁴	1 10 ⁷
Pt-199	1 10 ²	1 10 ⁶	1 10 ¹⁴	1 10 ⁷
Pt-200	1 10 ²	1 10 ⁶	1 10 ¹²	1 10 ⁷
Gold				
Au-193	1 10 ²	1 10 ⁷	1 10 ¹²	1 10 ⁸
Au-194	1 10 ¹	1 10 ⁶	1 10 ¹¹	1 10 ⁷
Au-195	1 10 ²	1 10 ⁷	1 10 ¹¹	1 10 ⁸
Au-198	1 10 ²	1 10 ⁶	1 10 ¹¹	1 10 ⁷
Au-198m	1 10 ¹	1 10 ⁶	1 10 ¹¹	1 10 ⁷
Au-199	1 10 ²	1 10 ⁶	1 10 ¹¹	1 10 ⁷
Au-200	1 10 ²	1 10 ⁵	1 10 ¹³	1 10 ⁶
Au-200m	1 10 ¹	1 10 ⁶	1 10 ¹¹	1 10 ⁷
Au-201	1 10 ²	1 10 ⁶	1 10 ¹⁴	1 10 ⁷
Mercury				
Hg-193	1 10 ²	1 10 ⁶	1 10 ¹³	1 10 ⁷
Hg-193m	1 10 ¹	1 10 ⁶	1 10 ¹²	1 10 ⁷

a Note 1

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b Note 2

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Hg-194+	1 10 ¹	1 10 ⁶	1 10 ¹⁰	1 10 ⁷
Hg-195	1 10 ²	1 10 ⁶	1 10 ¹²	1 10 ⁷
Hg-195m+ (organic)	1 10 ²	1 10 ⁶	1 10 ¹²	1 10 ⁷
Hg-195m+ (inorganic)	1 10 ²	1 10 ⁶	1 10 ¹¹	1 10 ⁷
Hg-197	1 10 ²	1 10 ⁷	1 10 ¹²	1 10 ⁸
Hg-197m (organic)	1 10 ²	1 10 ⁶	1 10 ¹²	1 10 ⁷
Hg-197m (inorganic)	1 10 ²	1 10 ⁶	1 10 ¹¹	1 10 ⁷
Hg-199m	1 10 ²	1 10 ⁶	1 10 ¹⁴	1 10 ⁷
Hg-203	1 10 ²	1 10 ⁵	1 10 ¹¹	1 10 ⁶
Thallium				
Tl-194	1 10 ¹	1 10 ⁶	1 10 ¹³	1 10 ⁷
Tl-194m	1 10 ¹	1 10 ⁶	1 10 ¹³	1 10 ⁷
Tl-195	1 10 ¹	1 10 ⁶	1 10 ¹³	1 10 ⁷
Tl-197	1 10 ²	1 10 ⁶	1 10 ¹³	1 10 ⁷
Tl-198	1 10 ¹	1 10 ⁶	1 10 ¹²	1 10 ⁷
Tl-198m	1 10 ¹	1 10 ⁶	1 10 ¹³	1 10 ⁷
Tl-199	1 10 ²	1 10 ⁶	1 10 ¹³	1 10 ⁷
Tl-200	1 10 ¹	1 10 ⁶	1 10 ¹¹	1 10 ⁷
Tl-201	1 10 ²	1 10 ⁶	1 10 ¹²	1 10 ⁷
T-202	1 10 ²	1 10 ⁶	1 10 ¹¹	1 10 ⁷
Tl-204	1 10 ⁴	1 10 ⁴	1 10 ¹¹	1 10 ⁵
Lead				

a Note 1

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b Note 2

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Pb-195m	1 10 ¹	1 10 ⁶	1 10 ¹³	1 10 ⁷
Pb-198	1 10 ²	1 10 ⁶	1 10 ¹³	1 10 ⁷
Pb-199	1 10 ¹	1 10 ⁶	1 10 ¹³	1 10 ⁷
Pb-200	1 10 ²	1 10 ⁶	1 10 ¹²	1 10 ⁷
Pb-201	1 10 ¹	1 10 ⁶	1 10 ¹²	1 10 ⁷
Pb-202	1 10 ³	1 10 ⁶	1 10 ¹⁰	1 10 ⁷
Pb-202m	1 10 ¹	1 10 ⁶	1 10 ¹²	1 10 ⁷
Pb-203	1 10 ²	1 10 ⁶	1 10 ¹²	1 10 ⁷
Pb-205	1 10 ⁴	1 10 ⁷	1 10 ¹¹	1 10 ⁸
Pb-209	1 10 ⁵	1 10 ⁶	1 10 ¹⁴	1 10 ⁷
Pb-210+	1 10 ¹	1 10 ⁴	1 10 ⁸	1 10 ⁵
Pb-211	1 10 ²	1 10 ⁶	1 10 ¹²	1 10 ⁷
Pb-212+	1 10 ¹	1 10 ⁵	1 10 ¹⁰	1 10 ⁶
Pb-214	1 10 ²	1 10 ⁶	1 10 ¹²	1 10 ⁷
Bismuth				
Bi-200	1 10 ¹	1 10 ⁶	1 10 ¹³	1 10 ⁷
Bi-201	1 10 ¹	1 10 ⁶	1 10 ¹²	1 10 ⁷
Bi-202	1 10 ¹	1 10 ⁶	1 10 ¹²	1 10 ⁷
Bi-203	1 10 ¹	1 10 ⁶	1 10 ¹¹	1 10 ⁷
Bi-205	1 10 ¹	1 10 ⁶	1 10 ¹¹	1 10 ⁷
Bi-206	1 10 ¹	1 10 ⁵	1 10 ¹⁰	1 10 ⁶
Bi-207	1 10 ¹	1 10 ⁶	1 10 ¹⁰	1 10 ⁷
Bi-210	1 10 ³	1 10 ⁶	1 10 ⁹	1 10 ⁷
Bi-210m+	1 10 ¹	1 10 ⁵	1 10 ⁸	1 10 ⁶

a Note 1

In the case of radionuclides not specified elsewhere in this Part, the quantities specified in this entry are to be used unless the Executive has approved some other quantity for that radionuclide.

b Note 2

Nuclides carrying the suffix“+” or “sec” in the above table represent parent nuclides in equilibrium with their correspondent daughter nuclides as listed in the following Table. In this case the concentrations and quantities given in the above Table refer to the parent nuclide alone, but already take account of the daughter nuclide(s) present.

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Bi-212+	1 10 ¹	1 10 ⁵	1 10 ¹¹	1 10 ⁶
Bi-213	1 10 ²	1 10 ⁶	1 10 ¹¹	1 10 ⁷
Bi-214	1 10 ¹	1 10 ⁵	1 10 ¹²	1 10 ⁶
Polonium				
Po-203	1 10 ¹	1 10 ⁶	1 10 ¹³	1 10 ⁷
Po-205	1 10 ¹	1 10 ⁶	1 10 ¹²	1 10 ⁷
Po-206	1 10 ¹	1 10 ⁶	1 10 ¹¹	1 10 ⁷
Po-207	1 10 ¹	1 10 ⁶	1 10 ¹²	1 10 ⁷
Po-208	1 10 ¹	1 10 ⁴	1 10 ⁷	1 10 ⁵
Po-209	1 10 ¹	1 10 ⁴	1 10 ⁷	1 10 ⁵
Po-210	1 10 ¹	1 10 ⁴	1 10 ⁷	1 10 ⁵
Astatine				
At-207	1 10 ¹	1 10 ⁶	1 10 ¹²	1 10 ⁷
At-211	1 10 ³	1 10 ⁷	1 10 ¹⁰	1 10 ⁸
Francium				
Fr-222	1 10 ³	1 10 ⁵	1 10 ¹²	1 10 ⁶
Fr-223	1 10 ²	1 10 ⁶	1 10 ¹³	1 10 ⁷
Radon				
Rn-220+	1 10 ⁴	1 10 ⁷	1 10 ⁸	1 10 ⁸
Rn-222+	1 10 ¹	1 10 ⁸	1 10 ⁹	1 10 ⁹
Radium				
Ra-223+	1 10 ²	1 10 ⁵	1 10 ⁷	1 10 ⁶
Ra-224+	1 10 ¹	1 10 ⁵	1 10 ⁸	1 10 ⁶
Ra-225	1 10 ²	1 10 ⁵	1 10 ⁷	1 10 ⁶
a Note 1				
In the case of radionuclides not specified elsewhere in this Part, the quantities specified in this entry are to be used unless the Executive has approved some other quantity for that radionuclide.				
b Note 2				
Nuclides carrying the suffix“+” or “sec” in the above table represent parent nuclides in equilibrium with their correspondent daughter nuclides as listed in the following Table. In this case the concentrations and quantities given in the above Table refer to the parent nuclide alone, but already take account of the daughter nuclide(s) present.				

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Ra-226+	1 10 ¹	1 10 ⁴	1 10 ⁷	1 10 ⁵
Ra-227	1 10 ²	1 10 ⁶	1 10 ¹³	1 10 ⁷
Ra-228+	1 10 ¹	1 10 ⁵	1 10 ⁸	1 10 ⁶
Actinium				
Ac-224	1 10 ²	1 10 ⁶	1 10 ¹⁰	1 10 ⁷
Ac-225+	1 10 ¹	1 10 ⁴	1 10 ⁷	1 10 ⁵
Ac-226	1 10 ²	1 10 ⁵	1 10 ⁸	1 10 ⁶
Ac-227+	1 10 ⁻¹	1 10 ³	1 10 ⁵	1 10 ⁴
Ac-228	1 10 ¹	1 10 ⁶	1 10 ¹⁰	1 10 ⁷
Thorium				
Th-226+	1 10 ³	1 10 ⁷	1 10 ¹¹	1 10 ⁸
Th-227	1 10 ¹	1 10 ⁴	1 10 ⁷	1 10 ⁵
Th-228+	1 10 ⁰	1 10 ⁴	1 10 ⁶	1 10 ⁵
Th-229+	1 10 ⁰	1 10 ³	1 10 ⁶	1 10 ⁴
Th-230	1 10 ⁰	1 10 ⁴	1 10 ⁶	1 10 ⁵
Th-231	1 10 ³	1 10 ⁷	1 10 ¹²	1 10 ⁸
Th-232	1 10 ¹	1 10 ⁴	1 10 ⁶	1 10 ⁵
Th-232sec	1 10 ⁰	1 10 ³	1 10 ⁶	1 10 ⁴
Th-234+	1 10 ³	1 10 ⁵	1 10 ¹⁰	1 10 ⁶
Protactinium				
Pa-227	1 10 ³	1 10 ⁶	1 10 ¹¹	1 10 ⁷
Pa-228	1 10 ¹	1 10 ⁶	1 10 ¹⁰	1 10 ⁷
Pa-230	1 10 ¹	1 10 ⁶	1 10 ⁸	1 10 ⁷
Pa-231	1 10 ⁰	1 10 ³	1 10 ⁶	1 10 ⁴

a Note 1

In the case of radionuclides not specified elsewhere in this Part, the quantities specified in this entry are to be used unless the Executive has approved some other quantity for that radionuclide.

b Note 2

Nuclides carrying the suffix“+” or “sec” in the above table represent parent nuclides in equilibrium with their correspondent daughter nuclides as listed in the following Table. In this case the concentrations and quantities given in the above Table refer to the parent nuclide alone, but already take account of the daughter nuclide(s) present.

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1 Radionuclide name, symbol, isotope	2 Concentration for notification. Regulation 6 and Schedule 1 (Bq/g)	3 Quantity for notification. Regulation 6 and Schedule 1 (Bq)	4 Quantity for notification of occurrences. Regulation 30(1) (Bq)	5 Quantity for notification of occurrences. Regulation 30(3) (Bq)
Pa-232	1 10 ¹	1 10 ⁶	1 10 ¹⁰	1 10 ⁷
Pa-233	1 10 ²	1 10 ⁷	1 10 ¹⁰	1 10 ⁸
Pa-234	1 10 ¹	1 10 ⁶	1 10 ¹²	1 10 ⁷
Uranium				
U-230+	1 10 ¹	1 10 ⁵	1 10 ⁷	1 10 ⁶
U-231	1 10 ²	1 10 ⁷	1 10 ¹¹	1 10 ⁸
U-232+	1 10 ⁰	1 10 ³	1 10 ⁶	1 10 ⁴
U-233	1 10 ¹	1 10 ⁴	1 10 ⁷	1 10 ⁵
U-234	1 10 ¹	1 10 ⁴	1 10 ⁷	1 10 ⁵
U-235+	1 10 ¹	1 10 ⁴	1 10 ⁷	1 10 ⁵
U-236	1 10 ¹	1 10 ⁴	1 10 ⁷	1 10 ⁵
U-237	1 10 ²	1 10 ⁶	1 10 ¹¹	1 10 ⁷
U-238+	1 10 ¹	1 10 ⁴	1 10 ⁷	1 10 ⁵
U-238 sec	1 10 ⁰	1 10 ³	1 10 ⁶	1 10 ⁴
U-239	1 10 ²	1 10 ⁶	1 10 ¹⁴	1 10 ⁷
U-240	1 10 ³	1 10 ⁷	1 10 ¹²	1 10 ⁸
U-240+	1 10 ¹	1 10 ⁶	1 10 ¹¹	1 10 ⁷
Neptunium				
Np-232	1 10 ¹	1 10 ⁶	1 10 ¹³	1 10 ⁷
Np-233	1 10 ²	1 10 ⁷	1 10 ¹⁴	1 10 ⁸
Np-234	1 10 ¹	1 10 ⁶	1 10 ¹¹	1 10 ⁷
Np-235	1 10 ³	1 10 ⁷	1 10 ¹¹	1 10 ⁸
Np-236 (1.15 10 ⁵ years)	1 10 ²	1 10 ⁵	1 10 ⁸	1 10 ⁶
a	Note 1 In the case of radionuclides not specified elsewhere in this Part, the quantities specified in this entry are to be used unless the Executive has approved some other quantity for that radionuclide.			
b	Note 2 Nuclides carrying the suffix“+” or “sec” in the above table represent parent nuclides in equilibrium with their correspondent daughter nuclides as listed in the following Table. In this case the concentrations and quantities given in the above Table refer to the parent nuclide alone, but already take account of the daughter nuclide(s) present.			

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1 Radionuclide name, symbol, isotope	2 Concentration for notification. Regulation 6 and Schedule 1 (Bq/g)	3 Quantity for notification. Regulation 6 and Schedule 1 (Bq)	4 Quantity for notification of occurrences. Regulation 30(1) (Bq)	5 Quantity for notification of occurrences. Regulation 30(3) (Bq)
Np-236 (22.5 hours)	1×10^3	1×10^7	1×10^{11}	1×10^8
Np-237+	1×10^0	1×10^3	1×10^7	1×10^4
Np-238	1×10^2	1×10^6	1×10^{11}	1×10^7
Np-239	1×10^2	1×10^7	1×10^{11}	1×10^8
Np-240	1×10^1	1×10^6	1×10^{13}	1×10^7
Plutonium				
Pu-234	1×10^2	1×10^7	1×10^{10}	1×10^8
Pu-235	1×10^2	1×10^7	1×10^{14}	1×10^8
Pu-236	1×10^1	1×10^4	1×10^7	1×10^5
Pu-237	1×10^3	1×10^7	1×10^{11}	1×10^8
Pu-238	1×10^0	1×10^4	1×10^6	1×10^5
Pu-239	1×10^0	1×10^4	1×10^6	1×10^5
Pu-240	1×10^0	1×10^3	1×10^6	1×10^4
Pu-241	1×10^2	1×10^5	1×10^8	1×10^6
Pu-242	1×10^0	1×10^4	1×10^6	1×10^5
Pu-243	1×10^3	1×10^7	1×10^{13}	1×10^8
Pu-244	1×10^0	1×10^4	1×10^6	1×10^5
Pu-245	1×10^2	1×10^6	1×10^{12}	1×10^7
Pu-246	1×10^2	1×10^6	1×10^{10}	1×10^7
Americium				
Am-237	1×10^2	1×10^6	1×10^{13}	1×10^7
Am-238	1×10^1	1×10^6	1×10^{13}	1×10^7
Am-239	1×10^2	1×10^6	1×10^{12}	1×10^7
a	Note 1			
	In the case of radionuclides not specified elsewhere in this Part, the quantities specified in this entry are to be used unless the Executive has approved some other quantity for that radionuclide.			
b	Note 2			
	Nuclides carrying the suffix“+” or “sec” in the above table represent parent nuclides in equilibrium with their correspondent daughter nuclides as listed in the following Table. In this case the concentrations and quantities given in the above Table refer to the parent nuclide alone, but already take account of the daughter nuclide(s) present.			

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Am-240	1 10 ¹	1 10 ⁶	1 10 ¹¹	1 10 ⁷
Am-241	1 10 ⁰	1 10 ⁴	1 10 ⁶	1 10 ⁵
Am-242	1 10 ³	1 10 ⁶	1 10 ¹⁰	1 10 ⁷
Am-242m+	1 10 ⁰	1 10 ⁴	1 10 ⁶	1 10 ⁵
Am-243+	1 10 ⁰	1 10 ³	1 10 ⁶	1 10 ⁴
Am-244	1 10 ¹	1 10 ⁶	1 10 ¹¹	1 10 ⁷
Am-244m	1 10 ⁴	1 10 ⁷	1 10 ¹⁴	1 10 ⁸
Am-245	1 10 ³	1 10 ⁶	1 10 ¹³	1 10 ⁷
Am-246	1 10 ¹	1 10 ⁵	1 10 ¹³	1 10 ⁶
Am-246m	1 10 ¹	1 10 ⁶	1 10 ¹³	1 10 ⁷
Curium				
Cm-238	1 10 ²	1 10 ⁷	1 10 ¹²	1 10 ⁸
Cm-240	1 10 ²	1 10 ⁵	1 10 ⁷	1 10 ⁶
Cm-241	1 10 ²	1 10 ⁶	1 10 ⁹	1 10 ⁷
Cm-242	1 10 ²	1 10 ⁵	1 10 ⁷	1 10 ⁶
Cm-243	1 10 ⁰	1 10 ⁴	1 10 ⁷	1 10 ⁵
Cm-244	1 10 ¹	1 10 ⁴	1 10 ⁷	1 10 ⁵
Cm-245	1 10 ⁰	1 10 ³	1 10 ⁶	1 10 ⁴
Cm-246	1 10 ⁰	1 10 ³	1 10 ⁶	1 10 ⁴
Cm-247	1 10 ⁰	1 10 ⁴	1 10 ⁶	1 10 ⁵
Cm-248	1 10 ⁰	1 10 ³	1 10 ⁶	1 10 ⁴
Cm-249	1 10 ³	1 10 ⁶	1 10 ¹⁴	1 10 ⁷
Cm-250	1 10 ⁻¹	1 10 ³	1 10 ⁵	1 10 ⁴
Berkelium				

a Note 1

In the case of radionuclides not specified elsewhere in this Part, the quantities specified in this entry are to be used unless the Executive has approved some other quantity for that radionuclide.

b Note 2

Nuclides carrying the suffix “+” or “sec” in the above table represent parent nuclides in equilibrium with their correspondent daughter nuclides as listed in the following Table. In this case the concentrations and quantities given in the above Table refer to the parent nuclide alone, but already take account of the daughter nuclide(s) present.

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Bk-245	1 10 ²	1 10 ⁶	1 10 ¹¹	1 10 ⁷
Bk-246	1 10 ¹	1 10 ⁶	1 10 ¹¹	1 10 ⁷
Bk-247	1 10 ⁰	1 10 ⁴	1 10 ⁶	1 10 ⁵
Bk-249	1 10 ³	1 10 ⁶	1 10 ⁹	1 10 ⁷
Bk-250	1 10 ¹	1 10 ⁶	1 10 ¹²	1 10 ⁷
Californium				
Cf-244	1 10 ⁴	1 10 ⁷	1 10 ¹²	1 10 ⁸
Cf-246	1 10 ³	1 10 ⁶	1 10 ⁹	1 10 ⁷
Cf-248	1 10 ¹	1 10 ⁴	1 10 ⁷	1 10 ⁵
Cf-249	1 10 ⁰	1 10 ³	1 10 ⁶	1 10 ⁴
Cf-250	1 10 ¹	1 10 ⁴	1 10 ⁶	1 10 ⁵
Cf-251	1 10 ⁰	1 10 ³	1 10 ⁶	1 10 ⁴
Cf-252	1 10 ¹	1 10 ⁴	1 10 ⁷	1 10 ⁵
Cf-253	1 10 ²	1 10 ⁵	1 10 ⁸	1 10 ⁶
Cf-254	1 10 ⁰	1 10 ³	1 10 ⁷	1 10 ⁴
Einsteinium				
Es-250	1 10 ²	1 10 ⁶	1 10 ¹³	1 10 ⁷
Es-251	1 10 ²	1 10 ⁷	1 10 ¹¹	1 10 ⁸
Es-253	1 10 ²	1 10 ⁵	1 10 ⁸	1 10 ⁶
Es-254	1 10 ¹	1 10 ⁴	1 10 ⁷	1 10 ⁵
Es-254m	1 10 ²	1 10 ⁶	1 10 ⁹	1 10 ⁷
Fermium				
Fm-252	1 10 ³	1 10 ⁶	1 10 ⁹	1 10 ⁷
Fm-253	1 10 ²	1 10 ⁶	1 10 ⁹	1 10 ⁷

a Note 1

In the case of radionuclides not specified elsewhere in this Part, the quantities specified in this entry are to be used unless the Executive has approved some other quantity for that radionuclide.

b Note 2

Nuclides carrying the suffix“+” or “sec” in the above table represent parent nuclides in equilibrium with their correspondent daughter nuclides as listed in the following Table. In this case the concentrations and quantities given in the above Table refer to the parent nuclide alone, but already take account of the daughter nuclide(s) present.

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Fm-254	1×10^4	1×10^7	1×10^{10}	1×10^8
Fm-255	1×10^3	1×10^6	1×10^9	1×10^7
Fm-257	1×10^1	1×10^5	1×10^7	1×10^6
Mendelevium				
Md-257	1×10^2	1×10^7	1×10^{11}	1×10^8
Md-258	1×10^2	1×10^5	1×10^7	1×10^6
Other radionuclides not listed above (see note 1)	1×10^{-1}	1×10^3	1×10^5	1×10^4

a Note 1

In the case of radionuclides not specified elsewhere in this Part, the quantities specified in this entry are to be used unless the Executive has approved some other quantity for that radionuclide.

b Note 2

Nuclides carrying the suffix “+” or “sec” in the above table represent parent nuclides in equilibrium with their correspondent daughter nuclides as listed in the following Table. In this case the concentrations and quantities given in the above Table refer to the parent nuclide alone, but already take account of the daughter nuclide(s) present.

List of nuclides in secular equilibrium as referred to in note 2 of this Schedule.

<i>Parent nuclide</i>	<i>Daughter nuclides</i>
Mg-28+	Al-28
Ti-44+	Sc-44
Fe-60+	Co-60m
Ge-68+	Ga-68
Sr-82+	Rb-82
Rb-83+	Kr-83m
Y-87+	Sr-87m
Sr-90+	Y-90
Zr-93+	Nb-93m
Zr-97+	Nb-97
Tc-95m+	Tc-95
Ru-106+	Rh-106
Ag-108m+	Ag-108
Sn-121m+	Sn-121

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<i>Parent nuclide</i>	<i>Daughter nuclides</i>
Sn-126+	Sb-126m
Xe-122+	I-122
Cs-137+	Ba-137m
Ba-140+	La-140
Ce-144+	Pr-144
Pm-148m+	Pm-148
Gd-146+	Eu-146
Hf-172+	Lu-172
W-178+	Ta-178
W-188+	Re-188
Re-189+	Os-189m
Os-194+	Ir-194
Ir-189+	Os-189m
Pt-188+	Ir-188
Hg-194+	Au-194
Hg-195m+	Hg-195
Pb-210+	Bi-210, Po-210
Bi-210m+	Tl-206
Pb-212+	Bi-212, Tl-208, Po-212
Bi-212+	Tl-208, Po-212
Rn-220+	Po-216
Rn-222+	Po-218, Pb-214, Bi-214, Po-214
Ra-223+	Rn-219, Po-215, Pb-211, Bi-211, Tl-207
Ra-224+	Rn-220, Po-216, Pb-212, Bi-212, Tl-208, Po-212
Ra-226+	Rn-222, Po-218, Pb-214, Bi-214, Po-214, Pb-210, Bi-210, Po-210
Ra-228+	Ac-228
Ac-225+	Fr-221, At-217, Bi-213, Po-213, Tl-209, Pb-209
Ac-227+	Fr-223
Th-226+	Ra-222, Rn-218, Po-214
Th-228+	Ra-224, Rn-220, Po-216, Pb-212, Bi-212, Tl-208, Po-212
Th-229+	Ra-225, Ac-225, Fr-221, At-217, Bi-213, Po-213, Pb-209

<i>Parent nuclide</i>	<i>Daughter nuclides</i>
Th-232sec	Ra-228, Ac-228, Th-228, Ra-224, Rn-220, Po-216, Pb-212, Bi-212, Tl-208, Po-212
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, Tl-208, Po-212
U-235+	Th-231
U-238+	Th-234, Pa-234m
U-238sec	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-240
Np-237+	Pa-233
Am-242m+	Am-242
Am-243+	Np-239

PART II

QUANTITY RATIOS FOR MORE THAN ONE RADIONUCLIDE

1. For the purpose of Regulation 2(4), the quantity ratio for more than one radionuclide is the sum of the quotients of the quantity of a radionuclide present Q_p divided by the quantity of that radionuclide specified in the appropriate column of Part I of this Schedule Q_{lim} , namely—

$$\sum \frac{Q_p}{Q_{im}}$$

Commencement Information

I43 Sch. 8 para. 1 in force at 1.1.2000, see [reg. 1\(a\)](#)

2. In any case where the isotopic composition of a radioactive substance is not known or is only partially known, the quantity ratio for that substance shall be calculated by using the values specified in the appropriate column in Part I for 'other radionuclides not listed above' for any radionuclide that has not been identified or where the quantity of a radionuclide is uncertain, unless the employer can show that the use of some other value is appropriate in the circumstances of a particular case, when he may use that value.

Commencement Information

I44 Sch. 8 para. 2 in force at 1.1.2000, see [reg. 1\(a\)](#)

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SCHEDULE 9

Regulation 41(1)

MODIFICATIONS

The Employment Act 1989

1. In Schedule 1 to the Employment Act 1989(4), in place of “Parts IV and V of the Ionising Radiations Regulations 1985” there shall be substituted “Paragraphs 5 and 11 of Schedule 4 to the Ionising Radiations Regulations 1999 [S.I. 1999/xxxx]”.

Commencement Information

I45 Sch. 9 para. 1 in force at 1.1.2000, see [reg. 1\(a\)](#)

The Employment Rights Act 1996

2. In section 64(3) of the Employment Rights Act 1996(5), in place of “regulation 16 of the Ionising Radiations Regulations 1985” there shall be substituted “regulation 24 of the Ionising Radiations Regulations 1999 [S.I. 1999/xxxx]”.

Commencement Information

I46 Sch. 9 para. 2 in force at 1.1.2000, see [reg. 1\(a\)](#)

The Personal Protective Equipment at Work Regulations 1992

3. In regulation 3 of the Personal Protective Equipment at Work Regulations 1992(6), in place of “the Ionising Radiations Regulations 1985” there shall be substituted “the Ionising Radiations Regulations 1999 [S.I.1999/xxxx]”.

Commencement Information

I47 Sch. 9 para. 3 in force at 1.1.2000, see [reg. 1\(a\)](#)

The Notification of New Substances Regulations 1993

4. In sub-paragraph (2)(e) of regulation 3 of the Notification of New Substances Regulations 1993(7), in place of “the Ionising Radiations Regulations 1985” there shall be substituted “the Ionising Radiations Regulations 1999 [S.I.1999/xxxx]”.

Commencement Information

I48 Sch. 9 para. 4 in force at 1.1.2000, see [reg. 1\(a\)](#)

(4) 1989 c. 38.
 (5) 1996 c. 18.
 (6) S.I. 1992/2966.
 (7) S.I. 1993/3050.

The Chemicals (Hazard Information and Packaging for Supply) Regulations 1994

5. In sub-paragraph (1)(a) of regulation 3 of the Chemicals (Hazard Information and Packaging for Supply) Regulations 1994(8), in place of “the Ionising Radiations Regulations 1985” there shall be substituted “the Ionising Radiations Regulations 1999 [S.I.1999/xxxx]”.

Commencement Information

I49 Sch. 9 para. 5 in force at 1.1.2000, see [reg. 1\(a\)](#)

The Reporting of Injuries, Diseases and Dangerous Occurrences Regulations 1995

6. Paragraph 8(2) of Schedule 2 to the Reporting of Injuries, Diseases and Dangerous Occurrences Regulations 1995(9), shall be deleted and the following substituted—

“In this paragraph, “radiation generator” means any electrical equipment emitting ionising radiation and containing components operating at a potential difference of more than 5kV.”.

Commencement Information

I50 Sch. 9 para. 6 in force at 1.1.2000, see [reg. 1\(a\)](#)

The Packaging, Labelling and Carriage of Radioactive Material by Rail Regulations 1996

7. In paragraph 1(s) of Schedule 14 to the Packaging, Labelling and Carriage of Radioactive Material by Rail Regulations 1996(10), after “regulation 27 of the Ionising Radiations Regulations 1985” there shall be added “or regulation 12 of the Ionising Radiations Regulations 1999 [S.I.1999/xxxx]”.

Commencement Information

I51 Sch. 9 para. 7 in force at 1.1.2000, see [reg. 1\(a\)](#)

The Health and Safety (Enforcing Authority) Regulations 1998

8. The Health and Safety (Enforcing Authority) Regulations 1998(11) shall be modified as follows—

- (a) in the definition of “ionising radiation” in regulation 2(1), in place of “the Ionising Radiations Regulations 1985” there shall be substituted “the Ionising Radiations Regulations 1999 [S.I. 1999/xxxx]”;
- (b) in sub-paragraph (d) of paragraph 4 of Schedule 2, in place of “Schedule 3 of the Ionising Radiations Regulations 1985” there shall be substituted “Schedule 1 of the Ionising Radiations Regulations 1999 [S.I. 1999/xxxx]”.
- (c) in paragraph 5 of Schedule 2, in place of “the Ionising Radiations Regulations 1985” there shall be substituted “the Ionising Radiations Regulations 1999 [S.I.1999/xxxx]”.

(8) S.I. 1994/3247.

(9) S.I. 1995/3163.

(10) S.I. 1996/2090.

(11) S.I. 1998/494.

Changes to legislation: There are outstanding changes not yet made by the legislation.gov.uk editorial team to *The Ionising Radiations Regulations 1999*. Any changes that have already been made by the team appear in the content and are referenced with annotations. (See end of Document for details) [View outstanding changes](#)

Commencement Information

I52 Sch. 9 para. 8 in force at 1.1.2000, see [reg. 1\(a\)](#)

The Health and Safety (Fees) Regulations 1999

9. The Health and Safety (Fees) Regulations 1999(12) shall be modified as follows—
- (a) in sub-paragraph (1)(c) of regulation 3, in place of “the Ionising Radiations Regulations 1985” there shall be substituted “the Ionising Radiations Regulations 1999 [S.I.1999/xxxx]”;
 - (b) the chapeau to regulation 9 shall be deleted and the following substituted—

“Fees for application for approval or reassessment of approval of dosimetry services and for type approval of apparatus under the Ionising Radiations Regulations 1999”.

- (c) in regulation 9(2), the words “a radiation generator or an apparatus containing a radioactive substance” shall be deleted and substituted by the following—

“apparatus pursuant to sub-paragraphs 1(c)(i) and 1(d)(i) of Schedule 1 to the Ionising Radiations Regulations 1999 [S.I.1999/xxxx]”;
- (d) the title of Schedule 8 shall be deleted and the following substituted—

“FEES FOR APPLICATIONS FOR APPROVAL OR REASSESSMENT OF APPROVAL OF DOSIMETRY SERVICES AND FOR TYPE APPROVAL OF APPARATUS UNDER THE IONISING RADIATIONS REGULATIONS 1999”;

- (e) in the first entry of column 1 of Schedule 8, in place of “regulation 15 of the Ionising Radiations Regulations 1985”, there shall be substituted “regulation 35 of the Ionising Radiations Regulations 1999 [S.I.1999/xxxx]”;
- (f) the final entry of column 1 of Schedule 8 shall be deleted and the following substituted—

“Type approval of apparatus under sub-paragraph 1(c)(i) or 1(d)(i) of Schedule 1 to the Ionising Radiations Regulations 1999 [S.I.1999/xxxx] (which excepts such type approved apparatus from the notification requirements of regulation 6 of those Regulations).”.

Commencement Information

I53 Sch. 9 para. 9 in force at 1.1.2000, see [reg. 1\(a\)](#)

Changes to legislation:

There are outstanding changes not yet made by the legislation.gov.uk editorial team to The Ionising Radiations Regulations 1999. Any changes that have already been made by the team appear in the content and are referenced with annotations.

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Changes and effects yet to be applied to :

- Sch. 1 para. 2 omitted by [S.I. 2010/675 Sch. 26 Pt. 2 para. 15\(3\)\(b\)](#)
- Sch. 1 para. 1 words substituted by [S.I. 2010/675 Sch. 26 Pt. 2 para. 15\(3\)\(a\)](#)
- Sch. 1 para. 1(c)(iv) words substituted by [S.I. 2013/755 Sch. 4 para. 113\(2\)](#)
- Sch. 1 para. 1(f) words substituted by [S.I. 2013/755 Sch. 4 para. 113\(2\)](#)
- Sch. 3 heading words substituted by [S.I. 2014/469 Sch. 3 para. 100](#)
- Sch. 4 para. 6 words inserted by [S.I. 2001/2975 Sch. 11 para. 7](#)
- Sch. 4 para. 19 words substituted by [S.I. 2001/2975 Sch. 11 para. 8](#)
- Sch. 4 para. 13(c) words substituted by [S.I. 2014/469 Sch. 3 para. 100](#)
- Sch. 4 para. 14(b) words substituted by [S.I. 2014/469 Sch. 3 para. 100](#)
- Sch. 4 para. 18 words substituted by [S.I. 2014/469 Sch. 3 para. 100](#)
- Sch. 4 para. 1920 words substituted by [S.I. 2014/469 Sch. 3 para. 100](#)
- Sch. 4 para. 22 words substituted by [S.I. 2014/469 Sch. 3 para. 100](#)
- Sch. 8 word substituted by [S.I. 2001/2975 Sch. 11 para. 9](#)
- Sch. 8 Pt. 1 note words substituted by [S.I. 2014/469 Sch. 3 para. 100](#)
- Sch. 9 para. 9 revoked by [S.I. 2001/2626 Sch. 20](#)
- Sch. 9 para. 7 revoked by [S.I. 2002/2099 Sch. 2](#)
- Sch. 9 para. 6 revoked by [S.I. 2013/1471 reg. 18\(1\)Sch. 4 Table 1](#)
- Regulations modified by [S.I. 2016/1154 Sch. 23 Pt. 5 para. 7\(1\)](#)
- Regulations revoked by [S.I. 2017/1075 reg. 42\(2\)](#)
- reg. 2(1) words inserted by [S.I. 2014/469 Sch. 3 para. 99](#)
- reg. 4(2) words substituted by [S.I. 2014/3248 Sch. 5 para. 10\(a\)\(ii\)](#)
- reg. 4(2)(a) substituted by [S.I. 2014/3248 Sch. 5 para. 10\(a\)\(i\)](#)
- reg. 5 coming into force by [S.I. 1999/3232 reg. 1\(b\)](#)
- reg. 5(1) words substituted by [S.I. 2014/469 Sch. 3 para. 101\(2\)](#)
- reg. 5(2) words substituted by [S.I. 2014/469 Sch. 3 para. 101\(2\)](#)
- reg. 5(4) words substituted by [S.I. 2014/469 Sch. 3 para. 101\(2\)](#)
- reg. 5(5) words substituted by [S.I. 2014/469 Sch. 3 para. 101\(2\)](#)
- reg. 5(7) words substituted by [S.I. 2014/469 Sch. 3 para. 101\(2\)](#)
- reg. 6 words substituted by [S.I. 2014/469 Sch. 3 para. 102\(2\)](#)
- reg. 11 excluded by [S.I. 2001/2975 reg. 15](#)
- regs 20–26 (Pt V) appl by [S.I. 2002/1093 reg 67](#)
- reg. 21(3)(f) words substituted by [S.I. 2014/469 Sch. 3 para. 100](#)
- reg. 21(3)(i) word inserted by [S.I. 2001/2975 Sch. 11 para. 3](#)
- reg. 22(6) words substituted by [S.I. 2014/469 Sch. 3 para. 103\(2\)](#)
- reg. 22(7) words substituted by [S.I. 2014/469 Sch. 3 para. 103\(2\)](#)
- reg. 22(8) words substituted by [S.I. 2014/469 Sch. 3 para. 103\(2\)](#)
- reg. 24(9) words substituted by [S.I. 2008/960 Sch. 3](#)
- reg. 25(1)(a)(i) words substituted by [S.I. 2014/469 Sch. 3 para. 104\(2\)](#)
- reg. 30(2) substituted by [S.I. 2010/675 Sch. 26 Pt. 2 para. 15\(2\)](#)
- reg. 30(2)(a) words substituted by [S.I. 2016/1154 Sch. 29 Pt. 2 para. 7](#)
- reg. 32(6) words substituted by [S.I. 2014/469 Sch. 3 para. 100](#)
- reg. 35(1) word inserted by [S.I. 2001/2975 Sch. 11 para. 4](#)
- reg. 36(1)(b) words substituted by [S.I. 2014/469 Sch. 3 para. 100](#)
- reg. 36(7) deleted by [S.I. 2001/2975 Sch. 11 para. 6](#)
- reg. 36(7) substituted by [S.I. 2001/2975 Sch. 11 para. 6](#)
- reg. 37(1) words substituted by [S.I. 2014/469 Sch. 3 para. 100](#)
- reg. 37(2) words substituted by [S.I. 2014/469 Sch. 3 para. 100](#)
- reg. 39(8) words substituted by [S.I. 2014/469 Sch. 3 para. 100](#)
- reg. 40(5) words substituted by [S.I. 2014/469 Sch. 3 para. 100](#)
- reg. 40(8) words substituted by [S.I. 2014/469 Sch. 3 para. 100](#)

- reg. 41(1) revoked in part by S.I. 2001/2626 Sch. 20
- reg. 41(3) revoked by S.I. 2001/2975 reg. 22(2)
- reg. 41(4) words substituted by S.I. 2014/469 Sch. 3 para. 100

Changes and effects yet to be applied to the whole Instrument associated Parts and Chapters:

Whole provisions yet to be inserted into this Instrument (including any effects on those provisions):

- Sch. 1 para. 1A inserted by S.I. 2013/755 Sch. 4 para. 113(3)
- reg. 4(4) inserted by S.I. 2014/3248 Sch. 5 para. 10(b)
- reg. 5(8) inserted by S.I. 2014/469 Sch. 3 para. 101(3)
- reg. 6(10) inserted by S.I. 2014/469 Sch. 3 para. 102(3)
- reg. 14(a)(b) modified by S.I. 2005/2686 reg. 19
- reg. 22(9) inserted by S.I. 2014/469 Sch. 3 para. 103(3)
- reg. 25(4) inserted by S.I. 2014/469 Sch. 3 para. 104(3)
- reg. 35A inserted by S.I. 2001/2975 Sch. 11 para. 5