

Council Directive 2013/59/Euratom of 5 December 2013 laying down basic safety standards for protection against the dangers arising from exposure to ionising radiation, and repealing Directives 89/618/Euratom, 90/641/Euratom, 96/29/Euratom, 97/43/Euratom and 2003/122/Euratom

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ANNEX I

Reference levels for public exposure as referred to in Articles 7 and 101

1. Without prejudice to reference levels set for equivalent doses, reference...
2. In specific situations, a reference level below ranges referred to...
3. For the transition from an emergency exposure situation to an...
4. The reference levels set shall take account of the features...

ANNEX II

Radiation and tissue weighting factors as referred to in points (25) and (33) of Article 4

ANNEX III

Activity values defining high-activity sealed sources as referred to in point (41) of Article 4

For radionuclides not listed in the table below, the relevant...
The activity given is that of the alpha-emitting radionuclide
Radionuclide...

ANNEX IV

Justification of new classes or types of practices
involving consumer products as referred to in Article 20

- A. Any undertaking intending to manufacture or import into a Member...
- B. The competent authority shall examine that information and in particular...

ANNEX V

Indicative list of practices involving non-medical
imaging exposure as referred to in Article 22

Practices using medical radiological equipment:
Radiological health assessment for employment purposes;
Radiological health assessment for...
Practices not using medical radiological equipment:
Use of ionising radiation for detection of concealed objects on...

ANNEX VI

List of industrial sectors involving naturally-occurring
radioactive material as referred to in Article 23

When applying Article 23 the following list of industrial sectors...
Extraction of rare earths from monazite Production of thorium
compounds...

ANNEX VII

Exemption and clearance criteria as referred to in Articles 24, 26 and 30

- 1. Exemption
- 2. Exemption and clearance levels
 - (a) The total activity values (in Bq) for exemption apply to...
 - (b) The exempt activity concentration values (in kBq kg⁻¹) for the...
 - (c) The concentration values in Table A, Part 1, or in...

- (d) For mixtures of artificial radionuclides, the weighted sum of nuclide-specific...
 - (e) The values in Table A, Part 2, may not be...
3. General exemption and clearance criteria
- (a) The general criteria for the exemption of practices from notification...
 - (b) Practices involving small amounts of radioactive substances or low activity...
 - (c) Practices involving amounts of radioactive substances or activity concentrations below...
 - (d) In the case of moderate amounts of material, as specified...
 - (e) For the purpose of exemption from notification or for the...
- TABLE A Activity concentration values for exemption or clearance of materials which...
- TABLE A PART 1 radionuclides
- TABLE A PART 2 occurring radionuclides
- TABLE B Total activity values for exemption (column 3) and exemption values...

ANNEX VIII

Definition and use of the activity concentration index for the gamma radiation emitted by building materials as referred to in Article 75

For the purposes of Article 75(2), for identified types of...
The activity concentration index I is given by the following...
 $I = C_{\text{Ra226}}/300 \text{ Bq/kg} + C_{\text{Th232}}...$
where C_{Ra226} , C_{Th232} and C_{K40} are the activity concentrations in...
The index relates to the gamma radiation dose, in excess...

ANNEX IX

Indicative list of information for licence applications as referred to in Article 29

Responsibilities and organisational arrangements for protection and safety. Staff competences,...

ANNEX X

Data system for individual radiological monitoring as referred to in Articles 43, 44 and 51

GENERAL PROVISIONS

- 1. Any data system of the Member States for individual radiological...
- 2. The competent authorities of the Member States shall take the...
- A. Data to be included in the data system for individual...
 - 3. Data on the worker's identity shall include the worker's:
 - 4. Data on the undertaking shall include the name, address and...
 - 5. Data on the employment of the worker shall include:
 - 6. The results of the individual monitoring of the exposed worker...
- B. Data on outside workers to be supplied via the data...
 - 1. Before the start of any activity, the employer of the...
 - 2. The following data shall be recorded or have been recorded...
- C. Provisions concerning the individual radiological monitoring document

1. Member States may decide to issue an individual radiological monitoring...
2. The document shall be non-transferable.
3. Member States shall take the measures necessary to prevent a...
4. In addition to the information required in Part A and...

ANNEX XI

Emergency management systems and emergency response plans as referred to in Articles 69, 97 and 98

- A. Elements to be included in an emergency management system
 1. Assessment of potential emergency exposure situations and associated public and...
 2. Clear allocation of the responsibilities of persons and organisations having...
 3. Establishment of emergency response plans at appropriate levels and related...
 4. Reliable communications and efficient and effective arrangements for cooperation and...
 5. Health protection of emergency workers;
 6. Arrangements for the provision of prior information and training for...
 7. Arrangements for individual monitoring or assessment of individual doses of...
 8. Public information arrangements;
 9. Involvement of stakeholders;
 10. Transition from an emergency exposure situation to an existing exposure...
- B. Elements to be included in an emergency response plan

ANNEX XII

Information to members of the public about health protection measures to be applied and steps to be taken in the event of an emergency as referred to in Articles 70 and 71

- A. Prior information to the members of the public likely to...
 1. Basic facts about radioactivity and its effects on human beings...
 2. The various types of emergency covered and their consequences for...
 3. Emergency measures envisaged to alert, protect and assist the public...
 4. Appropriate information on action to be taken by the public...
- B. Information to be provided to the affected members of the...
 1. On the basis of the emergency response plan previously drawn...
 2. If the emergency is preceded by a pre-alarm phase, the...
 3. This information and advice shall be supplemented, if time permits,...

ANNEX XIII

Indicative list of types of building materials considered with regard to their emitted gamma radiation as referred to in Article 75

1. Natural materials

2. Materials incorporating residues from industries processing naturally-occurring radioactive material, such...

ANNEX XIV

Information to be provided in the records for high-activity sealed sources (HASS) as referred to in Article 89

ANNEX XV

Requirements for undertakings responsible for a high-activity sealed source as referred to in Article 91

Each undertaking responsible for a high-activity sealed source shall:
ensure that suitable tests, such as leak tests based on...

ANNEX XVI

Identification and marking of high-activity sealed sources as referred to in Article 91

1. The manufacturer or supplier ensures that:
2. The manufacturer provides a photograph of each manufactured source design...
3. The undertaking ensures that each high-activity sealed source is accompanied...

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Indicative list of types of existing exposure situations as referred to in Article 100

Exposure due to contamination of areas by residual radioactive material...

ANNEX XVIII

List of items to be considered in preparing the national action plan to address long-term risks from radon exposures as referred to in Articles 54, 74 and 103

Strategy for conducting surveys of indoor radon concentrations or soil...

ANNEX XIX

Correlation table referred to in Article 107

Status: EU Directives are being published on this site to aid cross referencing from UK legislation. After IP completion day (31 December 2020 11pm) no further amendments will be applied to this version.

- (1) [OJ L 11, 20.2.1959, p. 221.](#)
- (2) Council Directive 96/29/Euratom of 13 May 1996 laying down basic safety standards for the protection of the health of workers and the general public against the dangers arising from ionising radiation ([OJ L 159, 29.6.1996, p. 1.](#))
- (3) Council Directive 97/43/Euratom of 30 June 1997 on health protection of individuals against the dangers of ionising radiation in relation to medical exposure, and repealing Directive 84/466/Euratom ([OJ L 180, 9.7.1997, p. 22.](#))
- (4) Council Directive 89/618/Euratom of 27 November 1989 on informing the general public about health protection measures to be applied and steps to be taken in the event of a radiological emergency ([OJ L 357, 7.12.1989, p. 31.](#))
- (5) Council Directive 90/641/Euratom of 4 December 1990 on the operational protection of outside workers exposed to the risk of ionising radiation during their activities in controlled areas ([OJ L 349, 13.12.1990, p. 21.](#))
- (6) Council Directive 2003/122/Euratom of 22 December 2003 on the control of high-activity sealed radioactive sources and orphan sources ([OJ L 346, 31.12.2003, p. 57.](#))
- (7) The 2007 Recommendations of the International Commission on Radiological Protection.
- (8) Council Directive 89/391/EEC of 12 June 1989 on the introduction of measures to encourage improvements in the safety and health of workers at work ([OJ L 183, 29.6.1989, p. 1.](#))
- (9) 1990 Recommendations of the International Commission on Radiological Protection.
- (10) Compendium of Dose Coefficients based on ICRP Publication 60, 2012.
- (11) Conversion Coefficients for Radiological Protection Quantities for External Radiation Exposures, 2010.
- (12) Regulation (EU) No. 305/2011 of the European Parliament and of the Council of 9 March 2011 laying down harmonised conditions for the marketing of construction products and repealing Council Directive 89/106/EEC ([OJ L 88, 4.4.2011, p. 5.](#))
- (13) Commission Recommendation 90/143/Euratom of 21 February 1990 on the protection of members of the public against indoor exposure to radon ([OJ L 80, 27.3.1990, p. 26.](#))
- (14) Council Directive 93/42/EEC of 14 June 1993 concerning medical devices ([OJ L 169, 12.7.1993, p. 1.](#))
- (15) Directive 1999/2/EC of the European Parliament and of the Council of 22 February 1999 on the approximation of the laws of the Member States concerning foods and food ingredients treated with ionising radiation ([OJ L 66, 13.3.1999, p. 16.](#))
- (16) IAEA 2004 Safety Standards Series RS-G-1.7, Application of the Concepts of Exclusion, Exemption and Clearance.
- (17) Radiation Protection 122: Practical use of the Concepts of the Clearance and Exemption
- (18) Radiation Protection 89: Recommended radiological protection criteria for the recycling of metals from dismantling of nuclear installations, Radiation Protection 113: Recommended Radiological Protection Criteria for the Clearance of Buildings and Building Rubble from the Dismantling of Nuclear Installations, Radiation Protection 122: Practical Use of the Concepts of the Clearance and Exemption.
- (19) Council Decision 87/600/Euratom of 14 December 1987 on Community arrangements for the early exchange of information in the event of a radiological emergency ([OJ L 371, 30.12.1987, p. 76.](#))
- (20) Commission Recommendation 2004/2/Euratom of 18 December 2003 on standardised information on radioactive airborne and liquid discharges into the environment from nuclear power reactors and reprocessing plants in normal operation ([OJ L 2, 6.1.2004, p. 36.](#))
- (21) [OJ L 191, 27.7.2000, p. 37.](#)
- (22) Council Regulation (EU) No 333/2011 of 31 March 2011 establishing the criteria determining when certain types of scrap metal cease to be waste under Directive 2008/98/EC of the European Parliament and of the Council ([OJ L 94, 8.4.2011, p. 2.](#))
- (23) [OJ L 312, 22.11.2008, p. 3.](#)