

United Kingdom of Great Britain and Northern Ireland: Notice of Transposition to the European Commission

Transposing legislation in relation to the 2013 Basic Safety Standards Directive (2013/59/Euratom)

Transposing Administration Key:

UK: United Kingdom of Great Britain and Northern Ireland
GB: Great Britain
NI: Northern Ireland

Red text in the table below indicates that the highlighted regulation or piece of legislation is being newly notified to the European Commission. References in black text were notified in an earlier version of this notification table.

Transposing Legislation Key:

Occupational Radiation Exposures
IRR17: The Ionising Radiations Regulations 2017 <http://www.legislation.gov.uk/ukSI/2017/1075/contents/made>
IRR17(NI): The Ionising Radiations Regulations (Northern Ireland) 2017 <http://www.legislation.gov.uk/nisr/2017/229/made>
RADS: Requirements for the Approval of Dosimetry Services under the Ionising Radiation Regulations 2017 <http://www.hse.gov.uk/radiation/ionising/dosimetry/rads1.htm> (n.b. the documents at this link refer to the 1999 Ionising Radiation Regulations (IRR99) but are still relevant for the 2017 Ionising Radiation Regulations (IRR17) and will be reviewed shortly to ensure all references are up to date)
IRR17 Guidance: <http://www.hse.gov.uk/pubns/books/1121.htm>
MHSWR99: The Management of Health and Safety at Work Regulations 1999 <http://www.legislation.gov.uk/ukSI/1999/3242/contents/made>
MHSWR(NI)2000: The Management of Health and Safety at Work Regulations (Northern Ireland) 2000 <http://www.legislation.gov.uk/nisr/2000/388/contents/made>
HSWA74: The Health and Safety at Work etc. Act 1974 <https://www.legislation.gov.uk/ukpga/1974/37>
HSWO78: The Health and Safety at Work (Northern Ireland) Order 1978 <http://www.legislation.gov.uk/nisi/1978/1039>
FOIA2000: Freedom of Information Act 2000 - <http://www.legislation.gov.uk/ukpga/2000/36/contents>
EA13: The Energy Act 2013 <http://www.legislation.gov.uk/ukpga/2013/32/contents>
EPR16: Environmental Permitting (England and Wales) Regulations 2016 - <https://www.legislation.gov.uk/ukSI/2016/1154/made>

HASS05: The High-activity Sealed Radioactive Sources and Orphan Sources Regulations 2005 - <http://www.legislation.gov.uk/ukSI/2005/2686/contents/made>

Medical Radiation Exposures

IR(ME)R17: The Ionising Radiations (Medical Exposures) Regulations 2017 - <http://www.legislation.gov.uk/ukSI/2017/1322/made>
IR(ME)R17(NI): The Ionising Radiation (Medical Exposures) Regulations (Northern Ireland) 2017 - <http://www.legislation.gov.uk/nisr/2018/17/contents/made>
MDR02: Medical Devices Regulations 2002 - <http://www.legislation.gov.uk/ukSI/2002/618/contents/made>
FOIA2000: Freedom of Information Act 2000- <http://www.legislation.gov.uk/ukpga/2000/36/contents>

Public Radiation Exposures

RCL06: The Radioactive Contaminated Land (Modification of Enactments) (England) Regulations 2006
<http://www.legislation.gov.uk/ukSI/2006/1379/contents>
as amended by the Radioactive Contaminated Land (Enabling Powers and Modification of Enactments) (England) (Amendment) Regulations 2018
<http://www.legislation.gov.uk/id/ukSI/2018/429>;
RCL07: The Radioactive Contaminated Land (Modification of Enactments) (England) (Amendment) Regulations 2007
<http://www.legislation.gov.uk/ukSI/2007/3245/contents/made>
RCL08: The Radioactive Contaminated Land (Modification of Enactments) (England) (Amendment) Regulations 2008
<http://www.legislation.gov.uk/ukSI/2008/520>
RCL10: The Radioactive Contaminated Land (Enabling Powers and Modification of Enactments) (England) (Amendment) Regulations 2010
<http://www.legislation.gov.uk/ukSI/2010/2147/contents/made>
RCL Stat. Guidance: Radioactive Contaminated Land Statutory Guidance (n.b. this has been laid in draft and will be made in Parliament on 22nd June 2018. It is included in this notification table to complement those RCL measures that are in force. See corresponding notified PDF)
EPA90: The Environmental Protection Act 1990 <http://www.legislation.gov.uk/ukpga/1990/43/contents>
EA95: The Environment Act 1995 <https://www.legislation.gov.uk/ukpga/1995/25/contents>
EPR16: The Environmental Permitting (England and Wales) Regulations 2016 <http://www.legislation.gov.uk/ukSI/2016/1154/contents/made>
as amended by EPR18: The Environmental Permitting (England and Wales) (Amendment) (No. 2) Regulations 2018
<http://www.legislation.gov.uk/id/ukSI/2018/428>
IRMP18: The Ionising Radiation (Basic Safety Standards) (Miscellaneous Provisions) Regulations 2018
<http://www.legislation.gov.uk/ukSI/2018/482/contents/made>

Emergency Preparedness and Response

CDG18: The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment (Amendment) Regulations 2018
CDG11: The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment (Amendment) Regulations 2011
<http://www.legislation.gov.uk/ukSI/2011/1885/contents/made>
CDG09: The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009
<http://www.legislation.gov.uk/ukSI/2009/1348/contents/made>
IRR17: The Ionising Radiations Regulations 2017 <http://www.legislation.gov.uk/ukSI/2017/1075/contents/made>

EA13: The Energy Act 2013 <http://www.legislation.gov.uk/ukpga/2013/32/contents>
HSWA74: The Health and Safety at Work etc. Act 1974 <https://www.legislation.gov.uk/ukpga/1974/37>
REPPiR 2001: Radiation (Emergency Preparedness and Public Information) Regulations 2001 <https://www.legislation.gov.uk/uksi/2001/2975/contents/made>
REPPiR 2019: Radiation (Emergency Preparedness and Public Information) Regulations 2019

Other transposing legislation

AF(BSS)(NI)R18: Animal Feeds (Basic Safety Standards) (Northern Ireland) Regulations 2018 - <http://www.legislation.gov.uk/nisr/2018/16/contents/made>
AF(BSS)(Wales)R18: Animal Feeds (Basic Safety Standards) (Wales) Regulations 2018 - <https://www.legislation.gov.uk/wsi/2018/40/contents/made>
AF(BSS)(Scotland)R18: Animal Feeds (Basic Safety Standards) (Scotland) Regulations 2018 - <https://www.legislation.gov.uk/ssi/2018/15/contents/made>
FSA90: Food Safety Act 1990 <https://www.legislation.gov.uk/ukpga/1990/16/contents>
JOIIRR04: Justification of Practices Involving Ionising Radiation Regulations 2004 <http://www.legislation.gov.uk/uksi/2004/1769/contents/made>
as amended by the Justification of Practices Involving Ionising Radiation (Amendment) Regulations 2018
<http://www.legislation.gov.uk/uksi/2018/430/contents/made>
NHSA06: National Health Service Act 2006 <http://www.legislation.gov.uk/ukpga/2006/41/contents>
TPCA90: Town and Country Planning Act 1990 <http://www.legislation.gov.uk/ukpga/1990/8/contents>
FOISA02: Freedom of Information (Scotland) Act 2002 <http://www.legislation.gov.uk/asp/2002/13/contents>
HSCA12: Health and Social Care Act 2012 <http://www.legislation.gov.uk/ukpga/2012/7/contents>
NIA65: The Nuclear Installations Act 1965 <http://www.legislation.gov.uk/ukpga/1965/57>

Transposition Timetable:

Emergency Preparedness and Response Workstream

This table is a notification of the emergency preparedness and response elements of the 2013 Basic Safety Standards Directive (BSSD). We are amending two pieces of legislation:

1. The Carriage of Dangerous Goods & Use of Transportable Pressure Equipment Regulations 2009 (CDG); and
2. The Radiation (Emergency Preparedness and Public Information) Regulations 2001 (REPPiR).

We expect to lay these regulations in parliament by December 2018 (CDG) and early 2019 (REPPiR). This legislation will cover Great Britain only; Northern Ireland will update its own version of these pieces of legislation and notify the Commission separately.

Other Workstreams

The UK transposed the BSSD as fully as possible by the transposition deadline. Our transposing legislation covering occupational radiation exposures came into force on 1 January 2018. Legislation covering medical radiation exposures came into force on 6 February 2018, along with legislation covering animal feeds in Wales, Scotland and Northern Ireland. Gibraltar's cross-BSSD transposing legislation also came into

force on 6 February 2018. All these measures were formally notified to the European Commission on 6 February 2018. The public exposures workstream formally notified in March 2018 and the further public radiation exposures measures for Wales, Scotland and Northern Ireland, and England's animal feed legislation, were notified in June 2018.

Art	Final text	Occupational radiation exposures transposing measures – Great Britain and Northern Ireland	Medical radiation exposures transposing measures – Great Britain and Northern Ireland	Public radiation exposures transposing measures – United Kingdom, England & Wales	Emergency Preparedness & Response – Great Britain - CDG	Emergency Preparedness & Response (Great Britain) – REPPIR	Other transposing measures – UK, England, Scotland, Wales and Northern Ireland

N/	SUBJECT MATTER AND SCOPE						
1	1 Subject matter This Directive establishes uniform basic safety standards for the protection of the health of individuals subject to occupational, medical and public exposures against the dangers arising from ionising radiation.	N/A	N/A	N/A	N/A	N/A	N/A
2	2 Scope This Directive applies to any planned, existing or emergency exposure situation which involves a risk from exposure to ionising radiation which cannot be disregarded from a radiation	N/A	N/A	N/A	N/A	N/A	N/A

	protection point of view or with regard to the environment in view of long-term human health protection.								
2.2	This Directive applies in particular to:	See below	See below	See below	See below	See below	See below	See below	See below
2.2(a)	the manufacture, production, processing, handling, disposal, use, storage, holding, transport, import to, and export from the Community of radioactive material;	GB: IRR17 reg. 2(1) (definition of “practice”); reg. 3(1)(a) NI: IRR17(NI) reg. 2(1) (definition of “practice”); reg. 3(1)(a)	GB: IR(ME)R 2017 reg. 2 (definition of “medical exposure”) NI: IR(ME)R (NI) 2018 reg. 2 (definition of “medical exposure”)	England & Wales: EPR16 regs. 8, 12, 35 & Schedule 23 – Parts 2 & 6	Transport: IRR17 reg. 2(1) (definition of “practice” includes transport); CDG18		REPIR 2019, reg. 3 (“Application”)	N/A	
2.2(b)	the manufacture and the operation of electrical equipment emitting ionising radiation and containing components operating at a potential difference of more than 5 kilovolt (kV);	GB: IRR17 reg. 2(1) (definition of “practice”); reg. 3(1)(a) NI: IRR17(NI) reg. 2(1) (definition of “practice”); reg. 3(1)(a)	GB: IR(ME)R 2017 reg. 2 (definition of “medical exposure”) NI: IR(ME)R (NI) 2018 reg. 2 (definition of “medical exposure”)		N/A	N/A		N/A	
2.2(c)	human activities which involve the presence of natural radiation sources that lead to a significant increase in the exposure of workers or	GB: IRR17 reg. 3 NI: IRR17(NI) reg. 3	N/A	England & Wales: EPR16 regs. 8, 12, 35 & Schedule 23 – Parts 2 & 6	N/A	N/A		N/A	

2.2(c) i)	members of the public, in particular: the operation of aircraft and spacecraft, in relation to the exposure of crews;	Air & Space Crew: This article will be transposed by forthcoming legislation in the Air & Space Crew workstream, to be notified at a later date.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2.2(c) ii)	the processing of materials with naturally-occurring radionuclides;	GB: IRR17 reg. 2(1) (definition of “practice”) NI: IRR17(NI) reg. 2(1) (definition of “practice”)	N/A	N/A	England & Wales: EPR16 regs. 8, 12, 35 and Schedule 23 – Parts 2 & 6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2.2(d)	the exposure of workers or members of the public to indoor radon, the external exposure from building materials and cases of lasting exposure resulting from the after-effects of an emergency or a past human activity.	GB: (indoor radon reference) reg. 3(1)(b) (remainder of article) Not HSE NI: (indoor radon) reg. 3(1)(b) (remainder) N/A	N/A	N/A	UK: IRMP18 Parts 2, 3 & 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

2.2(e)	the preparedness for, the planning of response to and the management of emergency exposure situations that are deemed to warrant measures to protect the health of members of the public or workers.	N/A	N/A	N/A	N/A	Transport: CDG18 Schedule 2	REPIR 2019	Emergency Preparedness & Response: This article will be transposed by forthcoming legislation in the EP&R workstream, to be notified at a later date.
3	Exclusion from the scope	N/A	N/A	N/A	N/A	N/A	N/A	N/A
3	This Directive shall not apply to: (a) exposure to the natural level of radiation, such as radionuclides contained in the human body and cosmic radiation prevailing at ground level; (b) exposure of members of the public or workers other than air or spacecrew to cosmic radiation in flight or in space; (c) above ground exposure to radionuclides present in the undisturbed earth's crust.	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Chapter II	DEFINITIONS							
4	Definitions							

4	For the purpose of this Directive, the following definitions shall apply:	GB: IRR17 reg. 2 NI: IRR17(NI) reg. 2	GB: IR(ME)R 2017 reg. 2; reg. 11(6) NI: IR(ME)R (NI) 2018 reg. 2; reg. 11(6)	Radioactive substances regulation England & Wales: EPR16 regs. 8, 12, 35 and Schedule 23 – Parts 2 & 6 Radioactive contaminated land England: Section 78A EPA90 as applied with modifications by RCL06 reg. 5. Other: UK: IRMP18 reg. 2	Transport: IRR17 reg. 2; CDG18, Sched 2, para 1 (“interpretation”)	REPPIR 2019 reg. 2 (“interpretation”); particularly “radiation emergency”, and “emergency worker”.	Wales: AF(BSS)(Wales)R18 reg. 2 Scotland: AF(BSS)(Scotland)R18 reg. 2 NI: AF(BSS)(NI)R 18 reg. 2 UK: JOIIR04 reg. 3
Chapter III	SYSTEM OF RADIATION PROTECTION						
5	General principles of radiation protection	See below	See below	See below	See below	See Below	See below
5	Member States shall establish legal requirements and an appropriate regime of regulatory control which, for all exposure situations, reflect a system of radiation protection based on the						

5(a)	<p>principles of justification, optimisation and dose limitation:</p> <p>Justification: Decisions introducing a practice shall be justified in the sense that such decisions shall be taken with the intent to ensure that the individual or societal benefit resulting from the practice outweighs the health detriment that it may cause. Decisions introducing or altering an exposure pathway for existing and emergency exposure situations shall be justified in the sense that they should do more good than harm.</p>	N/A	N/A	<p>England: RCL06 Section 78E (4A) and (4B) of the EPA 1990 as applied with modifications by regulation 8(3)</p>	N/A	N/A	<p>UK: JOPIIRR04 regs. 4(1), (2), (5) and 5 (1), (2) (first sentence of Art 5a)</p>
5(b)	<p>Optimisation: Radiation protection of individuals subject to public or occupational exposure shall be optimised with the aim of keeping the magnitude of individual doses, the likelihood of exposure and the number of individuals exposed as low as reasonably achievable taking into account the current state of technical knowledge and economic and societal factors. The optimisation of the protection of individuals</p>	<p>GB: First half of Article 5(b) IRR17 reg. 9 Second half of Article 5(b) Not HSE NI: First half of Article 5(b): IRR17(NI) reg. 9 Second half of Article 5(b) N/A</p>	<p>GB: IR(ME)R 2017 reg. 12 NI: IR(ME)R (NI) 2018 reg. 12</p>	<p>Radioactive substances regulation England & Wales: EPR16 Schedule 23 – Part 4 (para 1) Radioactive contaminated land England: RCL06 Section 78E (4A) and (4B) of the EPA</p>	N/A	N/A	N/A

	subject to medical exposure shall apply to the magnitude of individual doses and be consistent with the medical purpose of the exposure, as described in Article 56. This principle shall be applied not only in terms of effective dose but also, where appropriate, in terms of equivalent doses, as a precautionary measure to allow for uncertainties as to health detriment below the threshold for tissue reactions.			1990 as applied with modifications by regulation 8(3)					
5(c)	Dose limitation: In planned exposure situations, the sum of doses to an individual shall not exceed the dose limits laid down for occupational exposure or public exposure. Dose limits shall not apply to medical exposures.	GB: IRR17 reg. 12, Sched. 3, para.5 NI: IRR17(NI) reg. 12, Sched 3, para 5	N/A	England & Wales: EPR16 Schedule 23 – Part 4 (para 1 & 2)	N/A	N/A	N/A	N/A	N/A
6	Dose constraints for occupational, public, and medical exposure								
6.1	Member States shall ensure that, where appropriate, dose constraints are established for the purpose of prospective optimisation of protection:	See below	See below	See below	See below	See below	See below	See below	See below
6.1(a)	for occupational exposure, the dose constraint shall be established as an operational	GB: IRR17 reg. 9(3)	N/A	N/A	N/A	N/A	N/A	N/A	N/A

	<p>tool for optimisation by the undertaking under the general supervision of the competent authority. In the case of outside workers the dose constraint shall be established in cooperation between the employer and the undertaking.</p>	<p>NI: IRR17(NI) reg. 9(3)</p>	<p>N/A</p>	<p>England & Wales: EPR16 Schedule 23 – Part 4 (para 2)</p>	<p>N/A</p>	<p>N/A</p>	<p>N/A</p>	<p>N/A</p>
<p>6.1 (b)</p>	<p>for public exposure, the dose constraint shall be set for the individual dose that members of the public receive from the planned operation of a specified radiation source. The competent authority shall ensure that the constraints are consistent with the dose limit for the sum of doses to the same individual from all authorised practices.</p>	<p>N/A</p>	<p>N/A</p>	<p>GB: IR(ME)R 2017 reg. 6(5)(d)(i); reg. 12(4)(c); Schedule 2(g); Schedule 2(n)</p> <p>NI: IR(ME)R (NI) 2018 reg. 6(5)(d)(i) reg. 6(5)(d)(ii) reg. 12(4)(c) Schedule 2(g)</p>	<p>N/A</p>	<p>N/A</p>	<p>N/A</p>	<p>N/A</p>
<p>6.1 (c)</p>	<p>for medical exposure, dose constraints shall apply only with regard to the protection of carers and comforters and volunteers participating in medical or biomedical research.</p>	<p>N/A</p>	<p>GB: IR(ME)R 2017 reg. 6(5)(d)(i); reg. 12(4)(c); Schedule 2(g); Schedule 2(n)</p> <p>NI: IR(ME)R (NI) 2018 reg. 6(5)(d)(i) reg. 6(5)(d)(ii) reg. 12(4)(c) Schedule 2(g)</p>	<p>N/A</p>	<p>N/A</p>	<p>N/A</p>	<p>N/A</p>	<p>N/A</p>

6.2	Dose constraints shall be established in terms of individual effective or equivalent doses over a defined appropriate time period.	GB: IRR17 reg. 9(5) NI: IRR17(NI) reg. 9(5)	Schedule 2(n) GB: IR(ME)R2018 reg. 6(6) NI: IR(ME)R2018 reg. 6(6)	England & Wales: EPR16 Schedule 23 – Part 4 (para 2)	N/A	N/A	N/A
7	Reference levels						
7.1	Member States shall ensure that reference levels are established for emergency and existing exposure situations. Optimisation of protection shall give priority to exposures above the reference level and shall continue to be implemented below the reference level.	GB: N/A NI: N/A	N/A	Contaminated land, building materials and commodities UK: IRMP18 regs. 4(3)	Transport: CDG18, Sched 2, para 9	REPIR 2019, reg. 20 (“reference levels”)	N/A
7.2	The values chosen for reference levels shall depend upon the type of exposure situation. The choices of reference levels shall take into account both radiological protection requirements and societal criteria. For public exposure the establishment of reference levels shall take into account the range of reference levels set out in	GB: N/A NI: N/A	N/A	UK: IRMP18 reg. 3(3)	Transport: CDG18, Sched 2, para 9	REPIR 2019, reg. 20 (“reference levels”)	N/A

	Annex I. For existing exposure situations involving exposure to radon, the reference levels shall be set in terms of radon activity concentration in air as specified in Article 74 for members of the public and Article 54 for workers.	GB: IRR17 reg. 3 (with respect to radon in the workplace) NI: IRR17(NI) reg. 3 (with respect to radon in the workplace)	N/A	UK: IRMP18 reg. 8 (exposure situation (b)(i) – radon in Annex XVII BSSD)	N/A	N/A	N/A	N/A
8	Age limit for exposed workers							
8	Member States shall ensure that subject to Article 11(2), persons under 18 years of age may not be assigned to any work which would result in their being exposed workers.	GB: IRR17 reg. 12, Sched 3, para.5 NI: IRR17(NI) reg. 12, Sched 3, para 5	N/A	N/A	N/A	N/A	N/A	N/A
9	Dose limits for occupational exposure							
9.1	Member States shall ensure that dose limits for occupational exposure apply to the sum of annual occupational exposures of a worker from all authorised practices, occupational exposure to radon in workplaces requiring notification in accordance with Article 54(3), and other occupational exposure from	GB: IRR17 reg. 12 NI: IRR17(NI) reg. 12	N/A	N/A	N/A	N/A	N/A	N/A

	<p>existing exposure situations in accordance with Article 100(3). For emergency occupational exposure Article 53 shall apply.</p>							
9.2	<p>The limit on the effective dose for occupational exposure shall be 20 mSv in any single year. However, in special circumstances or for certain exposure situations specified in national legislation, a higher effective dose of up to 50 mSv may be authorised by the competent authority in a single year, provided that the average annual dose over any five consecutive years, including the years for which the limit has been exceeded, does not exceed 20 mSv.</p>	<p>GB: First sentence of Article Sched 3, para 1 Reminder of Article reg 12(2) and Sched 3, para 8 NI: IRR17(NI) 9.2 (first sentence) Sched 3, para 1 9.2 (remainder) 12(2) Sched 3, para 8</p>	N/A	N/A	N/A	N/A	N/A	N/A
9.3	<p>In addition to the limits on effective dose laid down in paragraph 2, the following limits on equivalent dose shall apply:</p>	<p>See below</p>	See below	See below	See below	See Below	See below	
9.3(a)	<p>the limit on the equivalent dose for the lens of the eye shall be 20 mSv in a single</p>	<p>GB: IRR17 Sched 3, para 2(a)</p>	N/A	N/A	N/A	N/A	N/A	N/A

	who, in the course of their studies, are obliged to work with radiation sources, shall be 6 mSv in a year.	Sched 3, para 3	See below:	See below:	See below:	See below:	See below:	See below:	See below:
11.3	In addition to the limits on effective dose laid down in paragraph 2, the following limits on equivalent dose shall apply:	See below:	See below:	See below:	See below:	See below:	See below:	See below:	See below:
11.3(a)	the limit on the equivalent dose for the lens of the eye shall be 15 mSv in a year;	GB: IRR17 Sched 3, para 4 NI: IRR17(NI) Sched 3, para 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
11.3(b)	the limit on the equivalent dose for the skin shall be 150 mSv in a year, averaged over any area of 1 cm ² , regardless of the area exposed;	GB: IRR17 Sched 3, para 4 NI: IRR17(NI) Sched 3, para 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
11.3(c)	the limit on the equivalent dose for the extremities shall be 150 mSv in a year.	GB: IRR17 Sched 3, para 4 NI: IRR17(NI) Sched 3, para 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
11.4	Member States shall ensure that the dose limits for apprentices and students who are not subject to the provisions of paragraphs 1, 2	GB: IRR17 Sched 3, para 5 NI: IRR17(NI)	N/A	N/A	N/A	N/A	N/A	N/A	N/A

	and 3 shall be the same as the dose limits for members of the public as specified in Article 12.	Sched 3, para 5							
12	Dose limits for public exposure								
12.1	Member States shall ensure that the dose limits for public exposure shall apply to the sum of annual exposures of a member of the public resulting from all authorised practices.	GB: IRR17 Sched 3, para 5 NI: IRR17(NI) Sched 3, para 5	N/A	England & Wales: EPR16 Schedule 23 – Part 4 (para 1)	N/A	N/A	N/A	N/A	N/A
12.2	Member States shall set the limit on the effective dose for public exposure at 1 mSv in a year.	GB: IRR17 Sched 3, para 5 NI: IRR17(NI) Sched 3, para 5	N/A	England & Wales: EPR16 Schedule 23 – Part 4 (para 1)	N/A	N/A	N/A	N/A	N/A
12.3	In addition to the dose limit referred to in paragraph 2, the following limits on the equivalent dose shall apply:	See below:	See below:	See below:	See below:	See below:	See below:	See below:	See below:
12.3(a)	the limit on the equivalent dose for the lens of the eye shall be 15 mSv in a year;	GB: IRR17 Sched 3, para 7(a) NI: IRR17(NI) Sched 3, para 7(a)	N/A	England & Wales: EPR16 Schedule 23 – Part 4 (para 1)	N/A	N/A	N/A	N/A	N/A

12.3(b)	the limit on the equivalent dose for the skin shall be 50 mSv in a year, averaged over any 1 cm ² area of skin, regardless of the area exposed.	GB: IRR17 Sched 3, para 7(b) NI: IRR17(NI) Sched 3, para 7(b)	N/A	England & Wales: EPR16 Schedule 23 – Part 4 (para 1)	N/A	N/A	N/A
13	Estimation of the effective and equivalent dose						
13	For the estimation of effective and equivalent doses, the appropriate standard values and relationships shall be used. For external radiation, the operational quantities defined in section 2.3 of ICRP Publication 116 shall be used.	GB: IRR17 reg. 36 and RADS NI: IRR17(NI) 36 and RADS	N/A	England & Wales: EPR16 Schedule 23 – Part 4 (para 2(2))	N/A	N/A	N/A
Chapter IV	REQUIREMENTS FOR RADIATION PROTECTION EDUCATION, TRAINING AND INFORMATION						
14	General responsibilities for the education, training and provision of information						
14.1	Member States shall establish an adequate legislative and administrative framework ensuring the provision of appropriate radiation protection education, training and information to all individuals whose tasks require specific	GB: IRR17 reg. 15(1)(a) and (b); last sentence of Article 14.1 reg. 15(1)(e) NI: IRR17(NI) reg. 15(1)(a);	GB: IR(ME)R 2017 reg. 6(3); reg. 17; Schedule 3 NI: IR(ME)R 2018 reg. 6(3); reg. 17; Schedule 3	N/A	N/A	N/A	Scotland, Wales, Northern Ireland: section 58 Health and Social Care Act 2012

14.2	<p>competences in radiation protection. The provision of training and information shall be repeated at appropriate intervals and documented.</p> <p>Member States shall ensure that arrangements are made for the establishment of education, training and retraining to allow the recognition of radiation protection experts and medical physics experts, as well as occupational health services and dosimetry services, in relation to the type of practice.</p>	<p>reg.15(1)(b); last sentence of reg. 15(1)(e)</p>	<p>UK: An MPE recognition scheme has been established and a syllabus incorporating the competency requirements for MPEs included in Article 83 developed. Competence of individuals wanting to act as MPEs will be assessed through submission of evidence of existing training and workplace experience. Certificates of competence to act as a MPE will be issued for a finite</p>	<p>England & Wales: EPR16 Schedule 23 – Part 4 (para 7) & <u>statement on radioactive waste advisers</u></p>	<p>Since 1 January 2000, companies involved in the transport of dangerous goods (and certain other organisations involved in transport related activities) have had to appoint a qualified Dangerous Goods Safety Adviser.</p> <p>In the UK, the examinations are set and administered by the Scottish Qualifications Authority as agent for Department for Transport. https://www.dgsafetyadvisers.org.uk/DGSA/Hom</p>	<p>N/A</p>	<p>England: section 2A National Health Service Act 2006</p> <p>Scotland, Wales, Northern Ireland: section 58 Health and Social Care Act 2012</p> <p>England: section 2A National Health Service Act 2006</p>
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		<p>Competence of the individuals wanted to act as RPAs will be assessed through submission of evidence of existing training (provided by a range of further and higher education establishments, and other organisations) and workplace experience. Certificates of competence to act as an RPA will be issued for a finite period and individuals will need to meet the requirements for continued registration, including continued education and</p>	<p>period and individuals will need to meet the requirements for continued registration, including continued education and professional development: https://www.gov.uk/government/uploads/system/uploads/attachment_data/file/643737/MP_E_statement.pdf</p>		<p>e Public Health England (PHE) is the UK's primary authority providing research, advice, and services to protect the public from hazards resulting from exposure to chemicals and poisons, radiation both ionising and non-ionising and ultrasound and infrasound.</p> <p>Through its Dangerous Goods Safety Advisers, PHE offers comprehensive dangerous goods safety advice and services. PHE is also an acknowledged,</p>		
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		professional development: http://www.hse.gov.uk/radiation/rpnews/statementrpa.htm .					industry leading (class 7 DGSA) ionising radiation dangerous goods safety advice specialist. https://www.phe-protection-services.org.uk/dggsa			
14.3	Member States may make arrangements for the establishment of education, training and retraining to allow the recognition of radiation protection officers, if such recognition is provided for in national legislation.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
15	Training of exposed workers and information provided to them									
15.1	Member States shall require the undertaking to inform exposed workers on:	See below	See below	See below	See below	See below	See below	See below	See below:	
15.1(a)	the radiation health risks involved in their work;	GB: IRR17 reg. 15(1)(a)(i) NI: IRR17(NI) reg. 15(1)(a)(i)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
15.1(b)	the general radiation protection procedures and precautions to be taken;	GB: IRR17 reg. 15(1)(a)(ii) NI: IRR17(NI)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

15.1(c)	the radiation protection procedures and precautions connected with the operational and working conditions of both the practice in general and each type of workstation or work to which they may be assigned;	reg. 15(1)(a)(ii) GB: IRR17 reg. 15(1)(a)(ii) NI: IRR17(NI) reg. 15(1)(a)(ii)	N/A	N/A	N/A	N/A	N/A	N/A
15.1(d)	the relevant parts of the emergency response plans and procedures;	N/A	N/A	N/A	N/A	N/A	N/A	Emergency Preparedness & Response: This article will be transposed by forthcoming legislation in the EP&R workstream, to be notified at a later date.
15.1(e)	the importance of complying with the technical, medical and administrative requirements.	GB: IRR17 reg. 15(1)(a)(iii) NI: IRR17(NI) reg. 15(1)(a)(iii)	N/A	N/A	N/A	N/A	N/A	N/A
15.1...	In the case of outside workers, their employer shall ensure that the information required in points (a), (b) and (e) is provided.	GB: IRR17 reg. 15(1)(a) NI: IRR17(NI) reg. 15(1)(a)	N/A	N/A	N/A	N/A	N/A	N/A
15.2	Member States shall require the undertaking or, in case of outside workers, the	GB: IRR17 reg. 15(1)(c) (i)	N/A	N/A	N/A	N/A	N/A	N/A

15.3	<p>employer, to inform exposed workers on the importance of making an early declaration of pregnancy in view of the risks of exposure for the unborn child.</p> <p>Member States shall require the undertaking or, in case of outside workers, the employer, to inform exposed workers on the importance of announcing the intention to breast-feed an infant in view of the risks of exposure for a breast-fed infant after intake of radionuclides or bodily contamination.</p>	<p>NI: IRR17(NI) reg. 15(1)(c)(i)</p> <p>GB: IRR17 reg. 15(a)(c)(ii)</p> <p>NI: IRR17(NI) reg. 15(a)(c)(ii)</p>	N/A	N/A	N/A	N/A	N/A	<p>REPIR19, reg. 18(6)(a) (“Emergency exposures: employees”)</p>	N/A	
15.4	<p>Member States shall require that the undertaking or, in case of outside workers, the employer, provides appropriate radiation protection training and information programmes for exposed workers.</p>	<p>GB: IRR17 reg. 15(1)(a)</p> <p>NI: IRR17(NI) reg. 15(1)(a)</p>	N/A	N/A	N/A	N/A	N/A	<p>REPIR19, reg. 18(1) (“Emergency exposures: employees”)</p>	N/A	
15.5	<p>In addition to the information and training in the field of radiation protection as specified in paragraphs 1, 2, 3 and 4, Member States shall require that the undertaking responsible for high-activity sealed sources shall ensure that such training includes specific requirements for the</p>	<p>GB: Schedule 23, Part 5, para.7 of the Environmental Permitting Regulations 2016 and Regulation 19 of the High Activity Sealed</p>	N/A	N/A	N/A	N/A	N/A	<p>REPIR19, reg. 10(7)(a) (“Operator’s emergency plan”), 18(1) (“Emergency exposures: employees”)</p>	N/A	

	safe management and control of high-activity sealed sources with a view to preparing the relevant workers adequately for any events affecting the radiation protection. The information and training shall place particular emphasis on the necessary safety requirements and shall contain specific information on the possible consequences of the loss of adequate control of high-activity sealed sources.	Sources and Orphan Sources Regulations 2005. NI: The High Activity Sealed Sources and Orphan Sources Regulations 2005.						N/A	
16	Information and training of workers potentially exposed to orphan sources								
16.1	Member States shall ensure that the management of installations where orphan sources are most likely to be found or processed, including large metal scrap yards and major metal scrap recycling installations, and in significant nodal transit points, are informed of the possibility that they may be confronted with a source.	GB: MHSWR99 reg.3 (risk assessment) NI: IRR17(NI) MHSWR(NI) 2000 reg.3 (risk assessment)	N/A	N/A	N/A	N/A	N/A	N/A	N/A
16.2	Member States shall encourage the management of installations referred to in	GB: MHSWR99 reg.3 (risk	N/A	N/A	N/A	N/A	N/A	N/A	N/A

	paragraph 1 to ensure that where workers in their installation may be confronted with a source, they are:	assessment) NI: IRR17(NI) MHSWR(NI) 2000 reg.3 (risk assessment)							
16.2(a)	advised and trained in the visual detection of sources and their containers;	GB: MHSWR99 reg.3 (risk assessment) NI: IRR17(NI) MHSWR(NI) 2000 reg.3 (risk assessment)	N/A	N/A	N/A	N/A	N/A	N/A	N/A
16.2(b)	informed of basic facts about ionising radiation and its effects;	GB: MHSWR99 reg.3 (risk assessment) NI: IRR17(NI) MHSWR(NI) 2000 reg.3 (risk assessment)	N/A	N/A	N/A	N/A	N/A	N/A	N/A
16.2(c)	informed of and trained in the actions to be taken on site in the event of the detection or suspected detection of a source.	GB: MHSWR99 reg.3 (risk assessment)	N/A	N/A	N/A	N/A	N/A	N/A	N/A

17	<p>Prior information and training for emergency workers</p> <p>Member States shall ensure that emergency workers who are identified in an emergency response plan or management system are given adequate and regularly updated information on the health risks their intervention might involve and on the precautionary measures to be taken in such an event. This information shall take into account the range of potential emergencies and the type of intervention.</p>	<p>NI: IRR17(NI) MHSWR(NI) 2000 reg.3 (risk assessment)</p>	N/A	N/A	<p>Transport: CDG18, Sched 2, para 3(6)(a); para 7(1)(b)</p>	<p>N/A</p>	
17.1		N/A	N/A	N/A	<p>Transport: CDG18, Sched 2, para 3(6)(a); para 7(1)(b)</p>	<p>REPIR 2019, reg 10(1) and (6)-(9) (“operator’s emergency plan”), reg. 18(1) (“emergency exposures: employees”); Schedule 7, Part 1, para 1(a)</p>	<p>Emergency Preparedness & Response: This article will be transposed by forthcoming legislation in the EP&R workstream, to be notified at a later date.</p>
17.2	<p>As soon as an emergency occurs, the information referred to in paragraph 1 shall be supplemented appropriately, having regard to the specific circumstances.</p>	N/A	N/A	N/A	<p>Transport: CDG18, Sched 2, para 3(6)(a); para 7(1)(b)</p>	<p>REPIR 2019, reg. 10 (7) (“Operator’s emergency plan”), reg. 18(1) (“emergency exposures: employees”); Schedule 7, Part 1, para 1(a)</p>	<p>Emergency Preparedness & Response: This article will be transposed by forthcoming legislation in the EP&R workstream, to be notified at a later date.</p>

17.3	Member States shall ensure that the undertaking or the organisation responsible for the protection of emergency workers provides to emergency workers referred to in paragraph 1 appropriate training as provided for in the emergency management system set out in Article 97. Where appropriate, this training shall include practical exercises.	N/A	N/A	N/A	N/A	Transport: CDG18, Sched 2, para 3(6)(a); para 7(1)(b)	REPIR 2019, reg 10(1) and (6)-(9) (“operator’s emergency plan”), reg. 12 (“review and testing of emergency plans”), reg. 18(1) (“emergency exposures: employees”)	Emergency Preparedness & Response: This article will be transposed by forthcoming legislation in the EP&R workstream, to be notified at a later date.
17.4	Members States shall ensure that, in addition to the emergency response training referred to in paragraph 3, the undertaking or the organisation responsible for the protection of emergency workers provides these workers with appropriate radiation protection training and information.	N/A	N/A	N/A	N/A	Transport: CDG18, Sched 2, para 3(6)(a); para 7(1)(b)	REPIR 2019, reg 10(1) and (6)-(9) (“operator’s emergency plan”), reg. 18(1) (“emergency exposures: employees”)	Emergency Preparedness & Response: This article will be transposed by forthcoming legislation in the EP&R workstream, to be notified at a later date.
18	Education, information and training in the field of medical exposure						N/A	

18.1	<p>Member States shall ensure that practitioners and the individuals involved in the practical aspects of medical radiological procedures have adequate education, information and theoretical and practical training for the purpose of medical radiological practices, as well as relevant competence in radiation protection.</p> <p>For this purpose Member States shall ensure that appropriate curricula are established and shall recognise the corresponding diplomas, certificates or formal qualifications.</p>	N/A	<p>GB: IR(ME)R 2017 reg. 6(3); reg. 17(1); reg. 17(2); Schedule 3</p> <p>NI: IR(ME)R (NI) 2018 reg. 6(3)(a) reg. 6(3)(b) reg. 17(1) reg. 17(2) Schedule 3</p>	N/A	N/A	N/A	N/A	N/A
18.2	<p>Individuals undergoing relevant training programmes may participate in practical aspects of medical radiological procedures as set out in Article 57(2).</p>	N/A	<p>GB: IR(ME)R 2017 reg. 17(3)</p> <p>NI: IR(ME)R (NI) 2018 reg. 17(3)</p>	N/A	N/A	N/A	N/A	N/A
18.3	<p>Member States shall ensure that continuing education and training after qualification is</p>	N/A	<p>GB: IR(ME)R 2017 reg. 6(3)</p>	N/A	N/A	N/A	N/A	N/A

	provided and, in the special case of the clinical use of new techniques, training is provided on these techniques and the relevant radiation protection requirements.		NI: IR(ME)R (NI) 2018 reg. 6(3)							
18.4	Member States shall encourage the introduction of a course on radiation protection in the basic curriculum of medical and dental schools.	N/A	UK: This article will be satisfied through administrative means. DHSC will approach the UK General Medical Council and General Dental Council to discuss inclusion of radiation protection in the list of minimum learning outcomes for graduates	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Chapter V	JUSTIFICATION AND REGULATORY CONTROL OF PRACTICES									
19.1	Member States shall ensure that new classes or types of practices resulting in	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	UK: JOPIIRR04 regs. 4(1), (2),

	exposure to ionising radiation are justified before being adopted.										(5) and 5 (1), (2)
19.2	Member States shall consider a review of existing classes or types of practices with regard to their justification whenever there is new and important evidence about their efficacy or potential consequences or new and important information about other techniques and technologies.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	UK: JOPIIRR04 reg. 10
19.3	Practices involving occupational and public exposures shall be justified as a class or type of practice, taking into account both categories of exposures.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	UK: JOPIIRR04 reg. 4(3A)
19.4	Practices involving medical exposure shall be justified both as a class or type of practice, taking into account medical and, where relevant, associated occupational and public exposures, and at the level of each individual medical exposure as specified in Article 55.	N/A	N/A	N/A	GB: IR(ME)R 2017 reg.10(2); reg.11 NI: IR(ME)R 2018 reg.10(2); reg.11	N/A	N/A	N/A	N/A	N/A	UK: JOPIIRR04 reg. 4(3B)
20	Practices involving consumer products										
20.1	Member States shall require any undertaking intending to manufacture or import a	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	UK: JOPIIRR04 reg. 20A(1);

	consumer product for which the intended use is likely to be a new class or type of practice, to provide the competent authority with all relevant information, including that listed in Annex IV, Section A, so as to allow the implementation of the justification requirement in Article 19(1).									Schedule A1(1)
20.2	On the basis of an assessment of this information, Member States shall ensure that the competent authority, as outlined in Annex IV, Section B, decides whether the intended use of the consumer product is justified.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	UK: JoPIIRR04 20A(1), (2); Schedule A1(2)
20.3	Without prejudice to paragraph 1, Member States shall ensure that the competent authority which has received information according to that paragraph, informs the point of contact for the competent authorities of other Member States of this receipt and, upon request, of its decision and the basis for that decision.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	UK: JOPIIRR04 The UK will write to each of the points of contact at the competent authorities of other Member States to inform them of the request and, when made, the decision and a

20.4	Member States shall prohibit the sale or the making available to the public of consumer products if their intended use is not justified or their use would not fulfil the criteria for exemption from notification under Article 26.	N/A	N/A	N/A	N/A	N/A	N/A	reason for it. On an administrative basis, this will be overseen by the Justification Application Centre within the Department of Business, Energy and Industrial Strategy.
21	Prohibition of practices							
21.1	Member States shall prohibit the deliberate addition of radioactive substances in the production of foodstuffs, animal feeding stuffs, and cosmetics, and shall prohibit the import or export of such products.	N/A	N/A	N/A	N/A	N/A	N/A	UK: FSA90 regs. 7, 14 JOPIIRR04 reg. 20(1)B Wales: AF(BSS)(Wales)R18 reg. 3 Scotland:

												AF(BSS)(Scoti and)R18 reg. 3 NI: AF(BSS)(NI)R 18 reg. 3 UK: JOPIRR04 reg. 20B
21.2	Without prejudice to the Directive 1999/2/EC, practices involving the activation of material resulting in an increase in activity in a consumer product, which at the time of placing on the market cannot be disregarded from a radiation protection point of view, shall be deemed not to be justified. However, the competent authority may evaluate specific types of practices within this class with regard to their justification.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
21.3	Member States shall prohibit the deliberate addition of radioactive substances in the manufacture of toys and personal ornaments and shall prohibit the import or export of such products.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	UK: JOPIRR04 reg. 20(1)(a), (b)
21.4	Member States shall prohibit practices involving the activation of materials used in toys and personal ornaments, resulting, at the time of the placing on the	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	UK: JOPIRR04 reg. 20 (1A)

	market of the products or of their manufacture, in an increase in activity, which cannot be disregarded from a radiation protection point of view, and shall prohibit the import or export of such products or materials									
22	Practices involving the deliberate exposure of humans for non-medical imaging purposes									
22.1	Member States shall ensure the identification of practices involving non-medical imaging exposure, in particular taking into account the practices included in Annex V.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	UK: JOPIIRR04 reg. 21(B)
22.2	Member States shall ensure that special attention is given to the justification of practices involving non-medical imaging exposure, in particular:	See below:	See below:	See below:	See below:	See below:	See below:	See below:	See below:	See below:
22.2(a)	all types of practices involving non-medical imaging exposure shall be justified before being generally accepted;	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	UK: JOPIIRR04 regs. 4(1), (2), (75) and 5(1), (2)
22.2(b)	each particular application of a generally accepted type of practice shall be justified;	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	UK: JoPIIRR04 reg. 21C
22.2(c)	all individual non-medical imaging exposure	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

	procedures using medical radiological equipment shall be justified in advance, taking into account the specific objectives of the procedure and the characteristics of the individual involved;				reg.10(2); reg.11 (1)(e) NI: IR(ME)R (NI) 2018 reg.3(f); reg.10(2); reg.11 (1)(e)						
22.2(d)	the general and particular justification of practices involving non-medical imaging exposure, as specified in (a) and (b), may be subject to review;	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	UK: JOIIRR04 regs. 10, 21C
22.2(e)	circumstances warranting non-medical imaging exposures, without individual justification of each exposure, shall be subject to regular review.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	UK: JOIIRR04 reg. 21D(1)
22.3	Member States may exempt justified practices involving non-medical imaging exposure using medical radiological equipment from the requirement for dose constraints according to point (b) of Article 6(1) and from the dose limits set out in Article 12.	N/A	N/A	N/A	GB: IR(ME)R 2017 reg. 3(f) NI: IR(ME)R (NI) 2018 reg. 3(f)						N/A
22.4	Where a Member State has determined that a particular practice involving non-medical imaging exposure is justified, it shall ensure that:	See below	See below	See below	See below	See below	See below	See below	See below	See below	See below

22.4(a))	the practice is subject to authorisation;	GB: IRR17 reg. 6(1) NI: IRR(NI)17 reg. 6(1) N/A	N/A	N/A	N/A	N/A	N/A	N/A
22.4(b))	requirements for the practice, including criteria for individual implementation, are established by the competent authority, in cooperation with other relevant bodies and medical scientific societies, as appropriate;	N/A	N/A	N/A	N/A	N/A	N/A	UK: JOIIRR04 reg. 21E(1), (2), (3), (4)
22.4(c))	for procedures using medical radiological equipment:	See below	See below	See below	See below	See below	See below	See below
22.4(c)) (i)	relevant requirements identified for medical exposure as set out in Chapter VII are applied, including those for equipment, optimisation, responsibilities, training and special protection during pregnancy and the appropriate involvement of the medical physics expert;	N/A	N/A	N/A	N/A	GB: IR(ME)R 2017 reg. 3(f); Schedule 2(m); Schedule 3 NI: IR(ME)R (NI) 2018 reg. 3(f); Schedule 2(m); Schedule 3	N/A	N/A
22.4(c)) (ii)	where appropriate, specific protocols, consistent with the objective of the exposure and required image quality, are put in place;	N/A	N/A	N/A	N/A	GB: IR(ME)R 2017 reg. 6(4); NI: IR(ME)R (NI) 2018 reg. 6(4);	N/A	N/A
22.4(c)) (iii)	where practicable, specific diagnostic reference levels	N/A	N/A	N/A	N/A	GB: IR(ME)R 2017 reg.	N/A	N/A

	are put in place;		6(5)(c)(iii)						
22.4(d)	for procedures not using medical radiological equipment, dose constraints are significantly below the dose limit for members of the public;	N/A	N/A	N/A	N/A	N/A	N/A	N/A	UK: JOPIIRR04 reg. 21F
22.4(e)	information is provided to and consent sought from the individual to be exposed, allowing for cases where the law enforcement authorities may proceed without consent of the individual according to national legislation;	N/A	N/A	N/A	N/A	N/A	N/A	N/A	UK: JOPIIRR04 reg. 21G
23	Identification of practices involving naturally-occurring radioactive material								
23	Member States shall ensure the identification of classes or types of practice involving naturally-occurring radioactive material and leading to exposure of workers or members of the public which cannot be disregarded from a radiation protection point of view. Such identification shall be carried	GB: IRR17 reg. 2, reg. 3 [List of identified practices published in: IRR17 Guidance under 'regulation 2' - http://www.hse	N/A	England & Wales: EPR16 Schedule 23 – Part 2 (paras 2 & 4)	N/A	N/A	N/A	N/A	N/A

	out by appropriate means taking into account industrial sectors listed in Annex VI.	.gov.uk/pubns/books/1121.htm NI: IRR17(NI) reg. 2, reg. 3 [List of identified practices published in IRR17 Guidance under 'regulation 2' - http://www.hse.gov.uk/pubns/books/1121.htm]							
24	Graded approach to regulatory control								
24.1	Member States shall require practices to be subject to regulatory control for the purpose of radiation protection, by way of notification, authorisation and appropriate inspections, commensurate with the magnitude and likelihood of exposures resulting from the practice, and commensurate with the impact that regulatory control may have in reducing such exposures or improving radiological	GB: IRR17 reg. 5, reg. 6, reg. 7 plus HSWA74 sections 18 – 25 (power of inspectors to carry out inspections) NI: IRR17(NI) reg. 5, reg. 6, reg. 7 plus HSWO78 articles 20 –	N/A	England & Wales: EPR16 regs. 8, 12 and 35 and Schedule 23 – Parts 2 & 6	N/A	N/A	N/A	N/A	N/A

	safety.	27 NI: IRR17(NI) (power of inspectors to carry out inspections) GB: IRR17 reg. 5, reg. 6, reg. 7, Sched.7 NI: IRR17(NI) reg. 5, reg. 6, reg. 7, Sched.7	N/A	N/A	N/A	N/A	N/A	N/A
24.2	Without prejudice to Articles 27 and 28, where appropriate, and in accordance with the general exemption criteria set out in Annex VII, regulatory control may be limited to notification and an appropriate frequency of inspections. For this purpose, Member States may establish general exemptions or allow the competent authority to decide to exempt notified practices from the requirement of authorisation on the basis of the general criteria specified in Annex VII; in the case of moderate amounts of material, as specified by Member States, the activity concentration values laid down in Annex VII, Table B, column 2 may be used for this purpose.		N/A	N/A	N/A	N/A	N/A	N/A
24.3	Notified practices which are not exempted from authorisation shall be subject to regulatory control through	GB: IRR17 reg. 5, reg. 6, reg. 7, Sched.7	N/A	N/A	N/A	N/A	N/A	N/A

	registration or licensing.	NI: IRR17(NI) reg. 5, reg. 6, reg. 7, Sched.7							
25	Notification								
25.1	Member States shall ensure that notification is required for all justified practices, including those identified according to Article 23. The notification shall be made prior to the practice commencing or, for existing practices, as soon as possible once this requirement is applicable. For practices subject to notification, Member States shall specify the information to be provided in conjunction with the notification. Where an application for an authorisation is submitted, no separate notification is needed. Practices may be exempted from notification, as specified in Article 26.	GB: IRR17 reg. 5 NI: IRR17(NI) reg. 5	N/A	England & Wales: EPR16 regs. 8, 12 and 35 and Schedule 23 – Parts 2 & 6	N/A	N/A	N/A	N/A	N/A
25.2	Member States shall ensure that notification is required for workplaces specified in Article 54(3), and for existing exposure situations that are	GB: IRR17 reg. 3, reg. 5 NI: IRR17(NI) reg. 3, reg. 5	N/A	England & Wales: EPR16 regs. 8, 12 and 35 and Schedule 23 –	N/A	N/A	N/A	N/A	N/A

	managed as a planned exposure situation, as specified in Article 100(3).			Parts 2 & 6				
25.3	Notwithstanding the exemption criteria laid down in Article 26, in situations identified by Member States where there is concern that a practice identified in accordance with Article 23 may lead to the presence of naturally-occurring radionuclides in water liable to affect the quality of drinking water supplies or affect any other exposure pathways, so as to be of concern from a radiation protection point of view, the competent authority may require that the practice be subject to notification.	N/A	N/A	N/A	N/A	N/A	N/A	N/A
25.4	Human activities involving radioactively contaminated materials resulting from authorised releases or materials cleared in accordance with Article 30 shall not be managed as a planned exposure situation and, hence, are not required to be notified.	N/A	N/A	N/A	N/A	N/A	N/A	N/A
26	Exemption from notification							
26.1	Member States may decide	See below:	See below:	See below:	See below:	See below:	See below:	See below:

	that justified practices involving the following do not need to be notified:		N/A	England & Wales: EPR16 regs. 8, 12 and 35 and Schedule 23 – Parts 2 & 6	N/A	N/A	N/A	N/A
26.1(a)	radioactive materials where the quantities of the activity involved do not exceed in total the exemption values set out in Table B, column 3, of Annex VII, or higher values that, for specific applications, are approved by the competent authority and satisfy the general exemption and clearance criteria set out in Annex VII; or	GB: IRR17 Schedule 1, para 1(b) Schedule 7, para 1, column 3 Schedule 1, para 1 (c) Schedule 7, Part IV NI: IRR17(NI) Schedule 1, para 1(b) Schedule 7, para 1, column 3 Schedule 1, para 1 (c) Schedule 7, Part IV	N/A	England & Wales: EPR16 regs. 8, 12 and 35 and Schedule 23 – Parts 2 & 6	N/A	N/A	N/A	N/A
26.1(b)	without prejudice to Article 25(4), radioactive materials where the activity concentrations do not exceed the exemption values set out in Table A of Annex VII, or higher values that, for specific applications, are approved by the competent authority and satisfy the general exemption and clearance criteria set out in	GB: IRR17 Schedule 1, para 1(a) Schedule 7, Part 1, column 2 Schedule 1 para 1 (c) Schedule 7, Part IV NI: IRR17(NI)	N/A	England & Wales: EPR16 regs. 8, 12 and 35 and Schedule 23 – Parts 2 & 6	N/A	N/A	N/A	N/A

	Annex VII; or	Schedule 1, para 1(a) Schedule 7, Part 1, column 2 Schedule 1 para 1 (c) Schedule 7, Part IV	N/A						
26.1(c)	<p>apparatus containing a sealed source, provided that:</p> <p>(i) the apparatus is of a type approved by the competent authority;</p> <p>(ii) the apparatus does not cause, in normal operating conditions, a dose rate exceeding $1 \mu\text{Sv} \cdot \text{h}^{-1}$ at a distance of 0.1 m from any accessible surface; and</p> <p>(iii) conditions for recycling or disposal have been specified by the competent authority;</p> <p>or</p>	<p>GB: IRR17 Schedule 1, para 1(d)(ii) Schedule 1, para 1(d)(iii) Schedule 1, para 1(d)(iv)</p> <p>NI: IRR17(NI) Schedule 1, para 1(d)(ii) Schedule 1, para 1(d)(iii) Schedule 1, para 1(d)(iv)</p>	N/A	England & Wales: EPR16 regs. 8, 12 and 35 and Schedule 23 – Parts 2 & 6	N/A	N/A	N/A	N/A	N/A
26.1(d)	<p>any electrical apparatus provided that:</p> <p>(i) it is a cathode ray tube intended for the display of visual images, or other</p>	<p>GB: IRR17 Schedule 1, para 1(f)(i)(ii) Para 1 (e) (i)</p>	N/A	N/A	N/A	N/A	N/A	N/A	N/A

		Schedule 1, Para 1(e) (ii) Para1(f) NI: IRR17(NI) Schedule 1, para 1(f)(i)(ii) Para 1 (e)(i) Schedule 1, Para 1(e)(ii) Para1(f)							
26.2	electrical apparatus operating at a potential difference not exceeding 30 kilo volt (kV), or it is of a type approved by the competent authority; and (ii) it does not cause, in normal operating conditions, a dose rate exceeding 1 µSv · h ⁻¹ Ä1 at a distance of 0.1 m from any accessible surface. Member States may exempt specific types of practices from the notification requirement subject to compliance with the general exemption criteria established in point 3 of Annex VII, on the basis of an assessment showing that exemption is the best option.	N/A	N/A	England & Wales: EPR16 regs. 8, 12 and 35 and Schedule 23 – Part 6	N/A	N/A	N/A	N/A	N/A
27	Registration or licensing								
27.1	Member States shall require either registration or licensing of the following practices:	See below	See below	See below	See below	See below	See below	See below	See below
27.1(a)	the operation of radiation generators or accelerators or radioactive sources for medical exposures or for non- medical imaging purposes;	GB: IRR17reg. 6(1) NI: IRR17(NI) reg. 6(1)	N/A	England & Wales: Regulated as a "use" of radioactive substances: EPR16 regs. 8, 12 and 35 and Schedule	N/A	N/A	N/A	N/A	N/A

27.1(b)	the operation of radiation generators or accelerators, except electron microscopes, or radioactive sources for purposes not covered by point (a).	GB: IRR17 reg. 6(1) NI: IRR17(NI) reg. 6(1)	N/A	N/A	23 – Parts 2 & 6	N/A	N/A	N/A
27.2	Member States may require registration or licensing for other types of practices.	N/A	N/A	N/A	N/A	N/A	N/A	N/A
27.3	The regulatory decision to submit types of practices to either registration or licensing may be based on regulatory experience, taking into account the magnitude of expected or potential doses, as well as the complexity of the practice.	N/A	N/A	N/A	N/A	N/A	N/A	N/A
28	Licensing							
28	Member States shall require licensing for the following practices:	See below	See below	See below	See below	See below	See below	See below
28(a)	the deliberate administration of radioactive substances to persons and, in so far as the radiation protection of human beings is concerned, animals for the purpose of medical or veterinary diagnosis, treatment or research;	GB: IRR17 reg. 7 NI: IRR17(NI) reg. 7	GB: IR(ME)R 2017 reg.4; reg.5; reg.11(1)(a); Schedule 1 NI: IR(ME)R 2017 reg.4; reg.5; reg.11(1)(a); Schedule 1	N/A	N/A	N/A	N/A	N/A

28(b)	the operation and decommissioning of any nuclear facility and the exploitation and closure of uranium mines;	GB: IRR17 reg. 7 NI: IRR17(NI) reg. 7	N/A	England & Wales: EPR16 regs 8, 12 and 35 and Schedule 23 – Parts 2 & 6	N/A	N/A	N/A
28(c)	the deliberate addition of radioactive substances in the production or manufacture of consumer products or other products, including medicinal products, and the import of such products;	GB: IRR17 reg. 7 NI: IRR17(NI) reg. 7	N/A	England & Wales: EPR16 regs 8, 12 and 35 and Schedule 23 – Parts 2 & 6	N/A	N/A	N/A
28(d)	any practice involving a high-activity sealed source;	GB: IRR17 reg. 7 NI: IRR17(NI) reg. 7	N/A	England & Wales: EPR16 regs 8, 12 and 35 and Schedule 23 – Parts 2 & 6	N/A	N/A	N/A
28(e)	the operation, decommissioning and closure of any facility for the long-term storage or disposal of radioactive waste, including facilities managing radioactive waste for this purpose;	GB: IRR17 reg. 7 NI: IRR17(NI) reg. 7	N/A	England & Wales: EPR16 regs 8, 12 and 35 and Schedule 23 – Parts 2 & 6	N/A	N/A	N/A
28(f)	practices discharging significant amounts of radioactive material with airborne or liquid effluent into the environment.	GB: IRR17 reg. 7 NI: IRR17(NI) reg. 7	N/A	England & Wales: EPR16 regs 8, 12 and 35 and Schedule 23 – Parts 2 & 6	N/A	N/A	N/A

29	Authorisation procedure							
29.1	For authorisation purposes, Member States shall require the provision of information relevant to radiation protection that is commensurate with the nature of the practice and the radiological risks involved.	GB: IRR17 reg. 6(2), reg. 7(3) NI: IRR17(NI) reg. 6(2), reg. 7(3)	N/A	England & Wales: EPR16 Schedule 5 (paras 2 & 4): <u>application forms and Schedule 23</u> Part 2 – Section 1	N/A	N/A	N/A	UK: NIA65 sections 1 to 6
29.2	In the case of licensing and when determining what information must be provided under paragraph 1, Member States shall take into account the indicative list in Annex IX.	GB: IRR17 reg. 7(3) NI: IRR17(NI) reg. 7(3)	GB: IR(ME)R 2017 Schedule 1.2 NI: IR(ME)R (NI) 2018 Schedule 1.2	England & Wales: EPR16 Schedule 5 (paras 2 & 4): <u>application forms and Schedule 24</u> Part 2 – Section 1	N/A	N/A	N/A	UK: NIA65 sections 1 to 6
29.3	A licence shall include, as appropriate, specific conditions and reference to requirements in national legislation so as to ensure that the elements of the licence are legally enforceable, and impose appropriate restrictions on the operational limits and conditions of operation.	GB: IRR17 reg. 7(4) (first part of Article) reg. 8, 9, 12, 15, 19 (second part of Article) NI: IRR17(NI) reg. 7(4) (first part of Article) reg. 8, 9, 12,	GB: IR(ME)R 2017 reg.4; reg.11(1)(a); reg.18; Schedule 1 NI: IR(ME)R (NI) 2018 reg.4; reg.11(1)(a); reg.18;	England & Wales: EPR16 Schedule 5 (paras 2 & 4): <u>application forms and Schedule 24</u> Part 4 – Section 1	N/A	N/A	N/A	UK: NIA65 sections 1 to 6

	National legislation or the specific conditions shall also require, when appropriate, the formal and documented implementation of the principle of optimisation.	15, 19 (second part of Article)	Schedule 1						
29.4	Where applicable, national legislation or a licence shall include conditions on the discharge of radioactive effluent, in accordance with the requirements laid down in Chapter VIII for the authorisation of the release of radioactive effluent into the environment.	N/A	N/A		England & Wales: EPR 16 Schedule 5 (para 12), Schedule 23 Part 4 (para 9) and <u>Statutory Guidance re discharges</u>	N/A	N/A	N/A	N/A
30	Release from regulatory control								
30.1	Member States shall ensure that the disposal, recycling or reuse of radioactive materials arising from any authorised practice is subject to authorisation.	N/A	N/A		England & Wales: EPR16 Regs. 8, 12 and 35 and Schedule 23 – Parts 2 & 6	N/A	N/A	N/A	N/A
30.2	Materials for disposal, recycling or reuse may be released from regulatory control provided that the activity concentrations:	See below	See below		See below	See below	See below	See below	See below
30.2(a)	for solid material do not exceed the clearance levels set out in Table A of Annex VII; or	N/A	N/A		England & Wales: EPR16: Schedule 23 – Part 2 (paras 5 & 6)	N/A	N/A	N/A	N/A

30.2(b))	comply with specific clearance levels and associated requirements for specific materials or for materials originating from specific types of practices; these specific clearance levels shall be established in national legislation or by the national competent authority, following the general exemption and clearance criteria set out in Annex VII, and taking into account technical guidance provided by the Community.	N/A	N/A	England & Wales: EPR16 Schedule 23 – Parts 2 & 6	N/A	N/A	N/A
30.3	Member States shall ensure that for the clearance of materials containing naturally-occurring radionuclides, where these result from authorised practices in which natural radionuclides are processed for their radioactive, fissile or fertile properties, the clearance levels comply with the dose criteria for clearance of materials containing artificial radionuclides.	N/A	N/A	England & Wales: EPR16 Schedule 23 – Part 2 (paras 5 & 6)	N/A	N/A	N/A
30.4	Member States shall not permit the deliberate dilution of radioactive materials for the purpose of them being	N/A	N/A	England & Wales: EPR16 Schedule 23 – Part 2 (para	N/A	N/A	N/A

	released from regulatory control. The mixing of materials that takes place in normal operations where radioactivity is not a consideration is not subject to this prohibition. The Competent Authority may authorise, in specific circumstances, the mixing of radioactive and non-radioactive materials for the purposes of re-use or recycling.								
Chapter VI	OCCUPATIONAL EXPOSURES								
31	Responsibilities								
31.1	Member States shall ensure that the undertaking is responsible for assessing and implementing arrangements for the radiation protection of exposed workers.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
31.2	In the case of outside workers, the responsibilities of the undertaking and the employer of outside workers are stipulated in Article 51.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
31.3	Without prejudice to paragraphs 1 and 2, Member States shall arrange for a clear allocation of responsibilities for the protection of workers in any	See below:	See below:	See below:	See below:	See below:	See below:	See below:	See below:

	exposure situation, to an undertaking, an employer or any other organisation, in particular for the protection of:	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Emergency Preparedness & Response: This article will be transposed by forthcoming legislation in the EP&R workstream, to be notified at a later date.
31.3(a)	emergency workers;	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
31.3(b)	workers involved in the remediation of contaminated land, buildings and other constructions;	GB: IRR17 reg. 3 and definition of “practice” NI: IRR17(NI) reg. 3 and definition of “practice”	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
31.3(c)	workers who are exposed to radon at work, in the situation specified in Article 54(3).	GB: IRR17 reg.3 NI: IRR17(NI) reg.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
31.3...	This shall also apply to the protection of self-employed individuals and individuals who work on a voluntary	GB: IRR17 reg 2 (self-employed) and 4(1) –	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

	basis.	(voluntary workers) NI: IRR17(NI) Definition of “self-employed” – (Reg 2(2)) 4(1) – voluntary workers	N/A	N/A	N/A	N/A	N/A	N/A	
31.4	Member States shall ensure that employers have access to information on the possible exposure of their employees under the responsibility of another employer or undertaking.	GB: IRR17 reg.16 NI: IRR17(NI) reg.16	N/A	N/A	N/A	N/A	N/A	N/A	
32	Operational protection of exposed workers								
32	Member States shall ensure that the operational protection of exposed workers is based, in accordance with the relevant provisions of this Directive, on:	See below	See below	See below	See below	See below	See below	See below	See below:
32(a)	prior evaluation to identify the nature and magnitude of the radiological risk to exposed workers;	GB: IRR17 reg. 8 NI: IRR17(NI) reg.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A
32(b)	optimisation of radiation protection in all working conditions, including occupational exposures as a	GB: IRR17 reg. 8, reg. 9(1)	N/A	N/A	N/A	N/A	N/A	N/A	N/A

	consequence of practices involving medical exposures;	NI: IRR17(NI) reg. 8, reg.9(1) GB: IRR17 reg. 21 NI: IRR17(NI) reg. 21	N/A	N/A	N/A	N/A	N/A	N/A
32(c)	classification of exposed workers into different categories;		N/A	N/A	N/A	N/A	N/A	N/A
32(d)	control measures and monitoring relating to the different areas and working conditions, including, where necessary, individual monitoring;	GB: IRR17 reg. 17, reg. 18, reg. 19, reg. 20, reg. 22 NI: IRR17(NI) reg. 17, reg. 18, reg. 19, reg. 20, reg. 22	N/A	N/A	N/A	N/A	N/A	N/A
32(e)	medical surveillance;	GB: IRR17 reg. 25 NI: IRR17(NI) reg. 25	N/A	N/A	N/A	N/A	N/A	N/A
32(f)	education and training.	GB: IRR17 reg. 15 NI: IRR17(NI) reg. 15	N/A	N/A	N/A	N/A	N/A	N/A
33	Operational protection of apprentices and students							
33.1	Member States shall ensure that the exposure conditions and operational protection of apprentices and students	GB: IRR17 reg. 2(3) (definitions), reg. 21(2)	N/A	N/A	N/A	N/A	N/A	REPIR 2019, reg. 18 ("emergency exposures: employees")

	aged 18 years or over referred to in Article 11(1) is equivalent to that of exposed workers of category A or B as appropriate.	NI: IRR17(NI) reg. 2(3) (definitions), reg. 21(2)	N/A	N/A	N/A	N/A	N/A	N/A	N/A
33.2	Member States shall ensure that the exposure conditions and operational protection of apprentices and students aged between 16 and 18 years referred to in Article 11(2) is equivalent to that of exposed workers of category B.	GB: IRR17 reg. 2(3) (definitions), reg. 21(2) NI: IRR17(NI) reg. 2(3) (definitions), reg. 21(2)	N/A	N/A	N/A	N/A	N/A	N/A	N/A
34	Consultations with a radiation protection expert								
34	Member States shall require undertakings to seek advice from a radiation protection expert within their areas of competence as outlined in Article 82, on the issues below that are relevant to the practice:	GB: IRR17 reg. 14 Sched, 4 NI: IRR17(NI) reg. 14 Sched 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
34(a)	the examination and testing of protective devices and measuring instruments;	GB: IRR17 Sched.4, para.4(first part) NI: IRR17(NI) Sched 4, para 4(first part)	N/A	N/A	N/A	N/A	N/A	N/A	N/A
34(b)	prior critical review of plans for installations from the point	GB: IRR17 Sched.4,	N/A	N/A	N/A	N/A	N/A	N/A	N/A

	of view of radiation protection;	para.2(first part) NI: IRR17(NI) Sched 4, para 2(first part) GB: IRR17 Sched.4, para 2 (second part) NI: IRR17(NI) Sched 4, para 2 (second part)	N/A	N/A	N/A	N/A	N/A	N/A	N/A
34(c)	the acceptance into service of new or modified radiation sources from the point of view of radiation protection;		N/A	N/A	N/A	N/A	N/A	N/A	N/A
34(d)	regular checking of the effectiveness of protective devices and techniques;	GB: IRR17 Sched.4, para.4 (second part) NI: IRR17(NI) Sched 4, para 4 (second part)	N/A	N/A	N/A	N/A	N/A	N/A	N/A
34(e)	regular calibration of measuring instruments and regular checking that they are serviceable and correctly used.	GB: IRR17 Sched.4, para.3 NI: IRR17(NI) Sched 4, para 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A
35	Arrangements in workplaces								
35.1	Member States shall ensure	GB: IRR17	N/A	N/A	N/A	N/A	N/A	N/A	N/A

35.2	<p>that for the purposes of radiation protection, arrangements are made as regards all workplaces where workers are liable to receive an exposure greater than an effective dose of 1 mSv per year or an equivalent dose of 15 mSv per year for the lens of the eye or 50 mSv per year for the skin and extremities.</p> <p>Such arrangements shall be appropriate to the nature of the installations and sources and to the magnitude and nature of the risks.</p>	<p>reg. 17(3) and Sched.3 NI: IRR17(NI) reg. 17(3) and Sched 3</p>	N/A	N/A	N/A	N/A	N/A
	<p>For workplaces specified in Article 54(3), and where the exposure of workers is liable to exceed an effective dose of 6 mSv per year or a corresponding time-integrated radon exposure value determined by the Member State, these shall be managed as a planned exposure situation and the Member States shall determine which requirements set out in this Chapter are appropriate. For workplaces specified in Article 54(3), and where the effective dose to workers is</p>	<p>GB: IRR17 reg. 3 (first sentence of Article) GB: IRR17 reg. 17, reg. 18, reg.19 and MHSWR99 reg 3 (second sentence of Article) NI: IRR17(NI) (First Sentence of Article)</p>	N/A	N/A	N/A	N/A	N/A

35.3(b))	to take into account the assessed exposure when organising working schedules with a view to reducing the doses of highly exposed crew;	workstream, to be notified at a later date. Air & Space Crew: This article will be transposed by forthcoming legislation in the Air & Space Crew workstream, to be notified at a later date.	N/A	N/A	N/A	N/A	N/A	N/A	N/A
35.3(c))	to inform the workers concerned of the health risks their work involves and their individual dose.	workstream, to be notified at a later date. Air & Space Crew: This article will be transposed by forthcoming legislation in the Air & Space Crew workstream, to be notified at a later date.	N/A	N/A	N/A	N/A	N/A	N/A	N/A
35.3(d))	to apply Article 10(1) to pregnant air crew.	workstream, to be notified at a later date. Air & Space Crew: This article will be transposed by forthcoming legislation in the Air & Space Crew workstream, to be notified at a later date.	N/A	N/A	N/A	N/A	N/A	N/A	N/A

		later date.						
36	Classification of workplaces							
36.1	Member States shall ensure that arrangements in workplaces include a classification into different areas, where appropriate, on the basis of an assessment of the expected annual doses and the probability and magnitude of potential exposures.	GB: IRR17 reg. 17(1), reg. 17(3) NI: IRR17(NI) reg. 17(1), reg. 17(3)	N/A	N/A	N/A	N/A	N/A	N/A
36.2	A distinction shall be made between controlled areas and supervised areas. Member States shall ensure that the competent authority establishes guidance on the classification of controlled and supervised areas with regard to particular circumstances.	GB: IRR17 First sentence reg. 17(1); reg. 17(3) Second sentence reg.17(1); reg. 17(3), reg. 17(19) NI: IRR17(NI) First sentence reg.17(1); reg.17(3)	N/A	N/A	N/A	N/A	N/A	N/A
36.3	Member States shall ensure	GB: IRR17	N/A	N/A	N/A	N/A	N/A	N/A

	that the undertaking keeps under review the working conditions in controlled and supervised areas.	reg. 17(3)(a), reg. 20(1) NI: IRR17(NI) reg. 17(3)(a), reg. 20(1)							
37	Controlled areas	See below	See below	See below	See below	See below	See below	See below	See below
37.1	Member States shall ensure that the minimum requirements for a controlled area are the following:	See below	See below	See below	See below	See below	See below	See below	See below
37.1(a)	The controlled area shall be delineated and access to it shall be restricted to individuals who have received appropriate instructions and shall be controlled in accordance with written procedures provided by the undertaking. Wherever there is a significant risk of the spread of radioactive contamination, specific arrangements shall be made, including for the access and exit of individuals and goods and for monitoring contamination within the controlled area and, where appropriate, in the adjacent area.	GB: IRR17 (first part) reg. 18(1)-(4); reg. 19(1); reg. 19(2) (second half) reg.19(7); reg. 19(8)(d)(ii) NI: IRR17(NI) (first part) reg. 18(1)-(4); reg. 19(1); reg. 19(2) (second half) reg. 19(7); reg.19(8)(d)(ii)	N/A	N/A	N/A	N/A	N/A	N/A	N/A
37.1(b)	Taking into account the nature and extent of radiological risks in the	GB: IRR17 reg. 20(1)	N/A	N/A	N/A	N/A	N/A	N/A	N/A

	duties taking into account the advice provided by the radiation protection expert.	NI: IRR17(NI) reg.14(1), Sched 4, para 1	See below	See below	See below	See below	See below	See below	
38	Supervised areas								
38.1	Member States shall ensure that the requirements for a supervised area are the following:	See below	See below	See below	See below	See below	See below	See below	See below
38.1(a)	taking into account the nature and extent of radiological risks in the supervised area, radiological surveillance of the workplace shall be organised in accordance with the provisions of Article 39;	GB: IRR17 reg.20 NI: IRR17(NI) reg.20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
38.1(b)	if appropriate, signs indicating the type of area, the nature of the sources and their inherent risks shall be displayed;	GB: IRR17 reg.19(1)(b) NI: IRR17(NI) reg.19(1)(b)	N/A	N/A	N/A	N/A	N/A	N/A	N/A
38.1(c)	if appropriate, working instructions appropriate to the radiological risk associated with the sources and the operations involved shall be laid down.	GB: IRR17 reg.18(1)-(4) NI: IRR17(NI) reg.18(1)-(4)	N/A	N/A	N/A	N/A	N/A	N/A	N/A
38.2	Member States shall ensure that the undertaking is responsible for implementation of these duties taking into account the advice provided by the	GB: IRR17 reg.14(1) Sched 4, para 1 NI: IRR17(NI)	N/A	N/A	N/A	N/A	N/A	N/A	N/A

	radiation protection expert.	reg.14(1) Sched 4, para 1								
39	Radiological surveillance of the workplace									
39.1	Member States shall ensure that the radiological surveillance of the workplace referred to in point (b) of Articles 37(1) and point (a) of Article 38(1) comprises, where appropriate:	See below	See below	See below	See below	See below	See below	See below	See below	See below
39.1(a)	the measurement of external dose rates, indicating the nature and quality of the radiation in question;	GB: IRR17 reg.20 NI: IRR17(NI) reg.20	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
39.1(b)	the measurement of the activity concentration in air and the surface density of contaminating radionuclides, indicating their nature and their physical and chemical states.	GB: IRR1 reg.20 NI: IRR17(NI) reg.20	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
39.2	The results of these measurements shall be recorded and shall be used, if necessary, for estimating individual doses, as provided for in Article 41.	GB: IRR17 reg.20(5); reg.23(1) NI: IRR17(NI) reg.20(5); reg.23(1)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
40	Categorisation of exposed workers									
40.1	Member States shall ensure that for the purposes of	GB: IRR17 reg. 21(1)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

41.2	that category A workers are systematically monitored based on individual measurements performed by a dosimetry service. In cases where category A workers are liable to receive significant internal exposure or significant exposure of the lens of the eye or extremities, an adequate system for monitoring shall be set up.	reg.22(2) NI: IRR17(NI) reg.22(2)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
41.3	Member States shall ensure that monitoring for category B workers is at least sufficient to demonstrate that such workers are correctly classified in category B. Member States may require individual monitoring and if necessary individual measurements, performed by a dosimetry service, for category B workers.	GB: IRR17 reg.19(4) NI: IRR17(NI) reg.19(4)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	In cases where individual measurements are not possible or inadequate, the individual monitoring shall be based on an estimate arrived at from individual measurements made on other exposed workers, from the results of the surveillance of the workplace provided for in Article 39 or on the basis	GB: IRR17 reg.23(1) NI: IRR17(NI) reg.23(1)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

	of calculation methods approved by the competent authority.												
42	Dose assessment in the case of accidental exposure												
42	Member States shall ensure that in the case of accidental exposure, the undertaking is required to assess the relevant doses and their distribution in the body.	GB: IRR17 reg.24 NI: IRR17(NI) reg.24	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
43	Recording and reporting of results												
43.1	Member States shall ensure that a record containing the results of individual monitoring is made for each category A worker and for each category B worker where such monitoring is required by the Member State.	GB: IRR17 reg.22(1), and reg.19(4) and (6) with respect to records NI: IRR17(NI) reg.22(1), and reg.19(4) and (6) with respect to records	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
43.2	For the purposes of paragraph 1, the following information on exposed workers shall be retained:	See below	See below	See below	See below	See below	See below	See below	See below	See below	See below	See below	See below
43.2(a)	a record of the exposures measured or estimated, as the case may be, of individual doses pursuant to	GB: IRR17 reg.22(1), reg.22(2)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

	Articles 41, 42, 51, 52, 53 and, if decided by the Member State pursuant to Article 35(2), 54(3);	<p>(wrt art.42) reg.24 (wrt art.51) reg.19(5); reg.22(5) (wrt art.52) Optional (wrt art.53) Not for HSE (wrt art.54.3) reg. 3(1)(b)</p> <p>NI: IRR17(NI) reg.22(1), reg. 22(2)</p> <p>(wrt art.42) reg. 24 (wrt art.51) reg.19(5), reg. 22(5) (wrt art.52) Optional (wrt art.53) N/A (wrt art.54.3) reg.3(1)(b)</p>						43.2(b)	in the case of exposures as referred to in Articles 42, 52 and 53, the reports relating to the circumstances and the action taken;	<p>GB: (wrt art.42) reg. 24 (wrt art.52) Optional (wrt art.53) Not for HSE</p> <p>NI:</p>	N/A	N/A	N/A	N/A	N/A
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43.2(c)	the results of workplace monitoring used to assess individual doses where necessary.	<p>GB: IRR17 reg.20(5); reg.23(1)</p> <p>NI: IRR17(NI) reg.20(5); reg.23(1)</p>	N/A	N/A	N/A	N/A	N/A	N/A
43.3	The information referred to in paragraph 1 shall be retained during the period of their working life involving exposure to ionising radiation and afterwards until they have or would have attained the age of 75 years, but in any case not less than 30 years after termination of the work involving exposure.	<p>GB: IRR17 reg. 22(3)(a)</p> <p>NI: IRR17(NI) reg. 22(3)(a)</p>	N/A	N/A	N/A	N/A	N/A	N/A
43.4	Exposures as referred to in Articles 42, 52 53 and, if decided by the Member State pursuant to Article 35(2), 54(3) shall be recorded separately in the dose record referred to in paragraph 1.	<p>GB: (art art.42) reg. 24(2)(b) (wrt art.52) Optional (wrt art.53) N/A (wrt art.54.3) reg. 22(1)</p> <p>NI:</p>	N/A	N/A	N/A	N/A	N/A	N/A

44.1(b)	made available to the worker concerned in accordance with paragraph 2;	<p>reg. 26(1)(c) (read with reg. 26(1)(a)(i) + (ii))</p> <p>(wrt art.52) Optional (wrt. Art.53) N/A (wrt art. 54(3)) 22(3)(b), (c), (e), (f)</p> <p>NI: (wrt art.41) 22(3)(f) 22(3)(b), (c) (wrt art.42) 26(1)(c) (read with 26(1)(a)(i)+(ii))</p> <p>(wrt art.52) Optional (wrt. Art.53) N/A (wrt art. 54(3)) 22(3)(b), (c), (e), (f)</p>	N/A	N/A	N/A	N/A	N/A
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44.1(c)		<p>Optional (wrt art.53) N/A (wrt art.54(3)) reg. 25(8)</p> <p>NI: (wrt art.41) reg. 22(6) (wrt art.42) reg. 24(2)(a) (wrt art. 52) Optional (wrt art.53) N/A (wrt art.54(3)) eg. 22(6)</p>	N/A	N/A	N/A	N/A	N/A
	<p>submitted to the occupational health service in order for it to interpret the implications of the results for human health, as provided for in Article 45(2);</p>	<p>GB: (wrt art.41) reg. 25(8) (wrt art.42) reg. 26(1)(c) (wrt art.52) Optional (wrt art.53) N/A (wrt art.54(3)) reg. 25(8)</p> <p>NI: (wrt art.41) reg. 25(8) (wrt art.42) reg. 26(1)(c) (wrt art.52) Optional</p>	N/A	N/A	N/A	N/A	N/A

		(wrt art.53) N/A (wrt art.54(3)) reg. 25(8)	N/A	N/A	N/A	N/A	N/A	
44.1(d))	submitted to the data system for individual radiological monitoring established by the Member State in accordance with provisions set out in Annex X.	GB: (wrt art.41) reg. 22 (wrt art.42) reg. 13(2)(d); reg. 24(1)(a) (wrt art.52) Optional (wrt art.53) N/A (wrt art.54(3)) reg. 22, reg.13(2)(d), reg. 24(1)(a)	N/A	N/A	N/A	N/A	N/A	N/A
44.2	Member States shall require the undertaking, or in case of	GB: IRR17 (first part) reg.	N/A	N/A	N/A	N/A	N/A	N/A

	outside workers, the employer, to grant workers, at their request, access to the results of their individual monitoring, including the results of measurements which may have been used in estimating these results, or to the results of the assessment of their doses made as a result of surveillance of the workplace.	22(6) IRR17 (end part) reg. 23(2) NI: IRR17(NI) (first part) reg. 22(6) (end part) reg. 23(2)	N/A	N/A	N/A	N/A	N/A	N/A	N/A
44.3	Member States shall determine the arrangements under which the results of individual monitoring are conveyed.	GB: IRR17 reg. 22(3), reg. 22(6) NI: IRR17(NI) reg. 22(3), reg. 22(6)	N/A	N/A	N/A	N/A	N/A	N/A	N/A
44.4	The data system for individual radiological monitoring shall cover at least the data listed in Annex X, Section A.	GB: IRR17 reg. 22; reg. 25, Sched. 5 and 6; RADS NI: IRR17(NI) reg. 22; reg. 25; Sched 5 and 6; RADS	N/A	N/A	N/A	N/A	N/A	N/A	N/A
44.5	In the case of an accidental exposure, Member States shall require the undertaking to communicate the results of individual monitoring and dose assessments to the	GB: IRR17 reg.24(2) NI: IRR17(NI) reg.24(2)	N/A	N/A	N/A	N/A	N/A	N/A	N/A

44.6	individual and the competent authority without delay. Member States shall ensure that arrangements are in place for the appropriate exchange, among the undertaking, in the case of an outside worker, the employer, the competent authority, occupational health services, radiation protection experts, or dosimetry services of all relevant information on the doses previously received by a worker in order to perform the medical examination prior to employment or classification as a category A worker pursuant to Article 45 and to control the further exposure of workers.	GB: IRR17 reg.16; reg.36; RADS Part. 3 NI: IRR17(NI) reg.16; reg.36; RADS Part 3	N/A	N/A	N/A	N/A	N/A	N/A
45	Medical surveillance of exposed workers							
45.1	Member States shall ensure that the medical surveillance of exposed workers is based on the principles that govern occupational medicine generally.	GB: IRR17 reg. 2(1) (definition: "approved doctor") NI: IRR17(NI) reg.2(1) (definition: "approved doctor")	N/A	N/A	N/A	N/A	N/A	N/A
45.2	The medical surveillance of	GB: IRR17 (1 st	N/A	N/A	N/A	N/A	N/A	N/A

	category A workers shall be undertaken by the occupational health service. This medical surveillance shall allow for the state of health of workers under surveillance to be ascertained as regards their fitness for the tasks assigned to them. To this end, the occupational health service shall have access to any relevant information they require, including the environmental conditions in the working premises.	and 2 nd sentence) reg.25(1)(a), reg. 25(2) (3 rd sentence) reg. 25(7), reg. 25(8) NI: IRR17 (NI) (1 st and 2 nd sentence) reg. 25(1)(a), reg. (2) (3 rd sentence) reg. 25(7), reg. (8)	See below:	See below:	See below:	See below:	See below:
45.3	Medical surveillance shall include:	See below:	N/A	N/A	N/A	N/A	See below:
45.3(a)	a medical examination prior to employment or classification as a category A worker to determine the worker's fitness for a post as a category A worker for which the worker is being considered;	GB: IRR17 reg.25(2); reg. 21(2)(b) NI: IRR17(NI) reg. 25(4)	N/A	N/A	N/A	N/A	N/A
45.3(b)	periodic reviews of health at least once a year, in order to determine whether the category A workers remain fit to perform their duties. The nature of these reviews, which can be performed as	GB: IRR17 reg. 25(4) NI: IRR17(NI) reg. 25(6)	N/A	N/A	N/A	N/A	N/A

	many times as the occupational health service considers necessary, shall depend on the type of work and on the individual worker's state of health.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
45.4	The occupational health service may indicate the need for medical surveillance to continue after cessation of work for as long as they consider it necessary to safeguard the health of the person concerned.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
46	Medical classification								
46	Member States shall ensure that the following medical classification is established with respect to fitness for work as a category A worker: (a) fit; (b) fit, subject to certain conditions; (c) unfit.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
47	Prohibition to employ or classify unfit workers								
47	Member States shall ensure that no worker may be employed or classified for any period in a specific post as a category A worker if medical surveillance	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

	establishes that the worker is unfit for that specific post.	reg.21(2)(b)							
48	Medical records								
48.1	Member States shall ensure that a medical record is opened for each category A worker and kept up to date so long as the worker remains a worker in that category. Thereafter, it shall be retained until the individual has or would have attained the age of 75 years, but in any case not less than 30 years after termination of the work involving exposure to ionising radiation.	GB: IRR17 reg. 25(3); reg. 25(5) NI: IRR17(NI) reg. 25(3); reg. 25(5)	N/A	N/A	N/A	N/A	N/A	N/A	N/A
48.2	The medical record shall include information regarding the nature of the employment, the results of the medical examinations prior to employment or classification as a category A worker, the periodic reviews of health and the record of doses required by Article 43.	GB: IRR17 Sched. 6(c);(g);(e) + (f);(g) NI: IRR17(NI) Sched 6(c);(g);(e) + (f)	N/A	N/A	N/A	N/A	N/A	N/A	N/A
49	Special medical surveillance								
49.1	Member States shall ensure that in addition to the medical surveillance of exposed workers provided for in Article 45, provision is made for any further action	GB: IRR17 reg. 25(4); reg. 25(6) NI: IRR17(NI) reg. 25(4); reg.	N/A	N/A	N/A	N/A	N/A	N/A	N/A

	equivalent protection to that for exposed workers employed on a permanent basis by the undertaking.	NI: IRR17(NI) reg. 19(2), reg. 22, reg. 23								
51.2	Member States shall ensure that the undertaking is responsible, either directly or through contractual agreements with the employer of outside workers, for the operational aspects of the radiation protection of outside workers that are directly related to the nature of their activities in the undertaking.	GB: IRR17 reg. 19 NI: IRR17(NI) reg. 19	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
51.3	In particular, Member States shall ensure that, as a minimum requirement, the undertaking shall:	See Below	N/A	N/A	N/A	See below:	N/A	N/A	N/A	N/A
51.3(a)	for category A workers entering controlled areas, check that the outside worker concerned has been passed as medically fit for the activities to be assigned to the worker;	GB: IRR17 reg. 19(2)(b)(iv) NI: IRR17(NI) reg. 19(2)(b)(iv)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
51.3(b)	check whether the categorisation of the outside worker is appropriate in relation to the doses liable to be received within the undertaking;	GB: IRR17 reg. 16, reg. 17(3)(a), reg. 19(2), reg. 21(1) NI: IRR17(NI) reg.16,	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

51.3(c)	for entry into controlled areas, ensure that, in addition to the basic training in radiation protection the outside worker has received specific instructions and training in connection with the characteristics of the workplace and the conducted activities, in accordance with points (c) and (d) of Article 15(1);	GB: IRR17 reg.19(2)(b)(iii) , reg.19(3) NI: IRR17(NI) reg.19(2)(b)(iii) , reg.19(3)	N/A	N/A	N/A	N/A	N/A	N/A	N/A
51.3(d)	for entry into supervised areas, ensure that the outside worker has received working instructions appropriate to the radiological risk associated with the sources and the operations involved, as required in point (c) of Article 38(1);	GB: IRR17 reg.18(4) NI: IRR17(NI) reg.18(4)	N/A	N/A	N/A	N/A	N/A	N/A	N/A
51.3(e)	ensure that the outside worker has been issued with the necessary personal protective equipment;	GB: IRR17 reg.9(2)(c), reg.19(3)(b)(ii), reg.19(5) NI: IRR17(NI) reg.9(2)(c), reg.19(2)(b)(ii), reg.19(3)	N/A	N/A	N/A	N/A	N/A	N/A	N/A
51.3(f)	ensure that the outside	GB: IRR17	N/A	N/A	N/A	N/A	N/A	N/A	N/A

	worker receives individual exposure monitoring appropriate to the nature of the activities, and any operational dosimetric monitoring that may be necessary;	reg.19(2)(b)(i), reg.19(4), reg.19(6) NI: IRR17(NI) reg.19(2)(b)(i), reg.19(4), reg.19(6)	N/A	N/A	N/A	N/A	N/A	N/A	See below
51.3(g))	ensure compliance with the system of protection as defined in Chapter III;	GB: IRR17 reg.8, reg.9, reg.11, reg.12, Sched.3 NI: IRR17(NI) reg.8, reg.9, reg.11, reg.12, Sched.3	N/A	N/A	N/A	N/A	N/A	N/A	See below
51.3(h))	for entry into controlled areas, ensure or take all appropriate steps to ensure that after every activity the radiological data from individual exposure monitoring of each category A outside worker within the meaning of Annex X, Section B, point 2, are recorded.	GB: IRR17 reg.19(5) NI: IRR17(NI) reg.19(5)	N/A	N/A	N/A	N/A	N/A	N/A	See below
51.4	Member States shall ensure that employers of outside workers ensure, either directly or through contractual agreements with the undertaking, that the radiation protection of their workers is in accordance with	See below	See below	See below	See below	See below	See below	See below	See below

51.4(a)	the relevant provisions of this Directive, in particular by: ensuring compliance with the system of protection as defined in Chapter III;	<p>GB: IRR17 reg.8, reg.9, reg.11, reg.12, reg.16, Sched. 3</p> <p>NI: IRR17(NI) reg.8, reg.9, reg.11, reg.12, reg.16, Sched. 3</p>	N/A	N/A	N/A	N/A	N/A	N/A
51.4(b)	ensuring that the information and training in the field of radiation protection referred to in points (a), (b) and (e) of Article 15(1), Article 15(2), (3) and (4) is provided.	<p>GB: IRR17 reg.15</p> <p>NI: IRR17(NI) reg.15</p>	N/A	N/A	N/A	N/A	N/A	N/A
51.4(c)	guaranteeing that their workers are subject to appropriate assessment of exposure and, for category A workers, medical surveillance, under the conditions laid down in Articles 39 and 41 to 49;	<p>GB: IRR17 reg.22, reg.23, reg.24, reg.25 and reg.16</p> <p>NI: IRR17(NI) reg.22, reg.23, reg.24, reg.25 and reg.16</p>	N/A	N/A	N/A	N/A	N/A	N/A
51.4(d)	ensuring that the radiological data from the individual exposure monitoring of each of their category A workers within the meaning of Annex X, Section B, point 1, are kept up to date in the data	<p>GB: IRR17 reg.22(5)(b)</p> <p>NI: IRR17(NI) reg.22(5)(b)</p>	N/A	N/A	N/A	N/A	N/A	N/A

51.5	system for individual radiological monitoring referred to in point (d) of Article 44(1). Member States shall ensure that all outside workers make their own contributions, as far as practicable, towards the protection to be afforded to them by the radiological monitoring system referred to in paragraph 1, without prejudice to the responsibilities of the undertaking or employer.	GB: IRR17 reg.35 NI: IRR17(NI) reg.35	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A					N/A
52	Specially authorised exposures															
52.1	Member States may decide that in exceptional circumstances evaluated case by case, excluding emergencies, the competent authority may, where a specific operation so requires, authorise individual occupational exposures of identified workers exceeding the dose limits set out in Article 9, provided that such exposures are limited in time, confined to certain working areas and within the maximum exposure levels defined for the particular case by the competent	See below:	See below:	See below:	See below:	See below:	See below:	See below:	See below:	See below:	See below:	See below:	See below:	See below:	See below:	See below:

52.1(a)	authority. The following conditions shall be taken into account: only category A workers as defined in Article 40 or spacecraft crew may be subject to such exposures;	Air & Space Crew: This article will be transposed by forthcoming legislation in the Air & Space Crew workstream, to be notified at a later date.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
52.1(b)	apprentices, students, pregnant workers, and, if there is a risk of intake or bodily contamination, breastfeeding workers, are excluded from such exposures;	Air & Space Crew: This article will be transposed by forthcoming legislation in the Air & Space Crew workstream, to be notified at a later date.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
52.1(c)	the undertaking justifies such exposures in advance and thoroughly discuss them with the workers, their representatives, the occupational health service and the radiation protection expert;	Air & Space Crew: This article will be transposed by forthcoming legislation in the Air & Space Crew workstream, to be notified at a later date.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

52.1(d)	information about the risks involved and the precautions to be taken during the operation are provided to the relevant workers in advance;	later date. Air & Space Crew: This article will be transposed by forthcoming legislation in the Air & Space Crew workstream, to be notified at a later date.	N/A	N/A	N/A	N/A	N/A	N/A
52.1(e)	the workers have consented;	Air & Space Crew: This article will be transposed by forthcoming legislation in the Air & Space Crew workstream, to be notified at a later date.	N/A	N/A	N/A	N/A	N/A	N/A
52.1(f)	all doses relating to such exposures are separately recorded in the medical record referred to in Article 48 and the individual record referred to in Article 43.	Air & Space Crew: This article will be transposed by forthcoming legislation in the Air & Space Crew workstream, to be notified at a later date.	N/A	N/A	N/A	N/A	N/A	N/A
52.2	The exceeding of dose limits	Air & Space	N/A	N/A	N/A	N/A	N/A	N/A

	as a result of specially authorised exposures shall not necessarily constitute a reason for excluding workers from their usual occupation or relocating them, without their agreement.	Crew: This article will be transposed by forthcoming legislation in the Air & Space Crew workstream, to be notified at a later date.	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
52.3	Member States shall ensure that the exposure of spacecraft crew above the dose limits is managed as a specially authorised exposure.	Air & Space Crew: This article will be transposed by forthcoming legislation in the Air & Space Crew workstream, to be notified at a later date.	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A
53	Emergency occupational exposure										
53.1	Member States shall ensure that emergency occupational exposures shall remain, whenever possible, below the values of the dose limits laid down in Article 9.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Transport: CDG18, Sched 2, para 3(4)(h); para 7	REPPIR 2019 , reg. 18 (“emergency exposures: employees”); reg. 20 (“reference levels”)
53.2	For situations where the	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	See below	Emergency Preparedness & Response: This article will be transposed by forthcoming legislation in the EP&R workstream, to be notified at a later date. See below

53.2(a)	above condition is not feasible, the following conditions shall apply: reference levels for emergency occupational exposure shall be set, in general below an effective dose of 100 mSv;	N/A	N/A	N/A	Transport: CDG18, Sched 2, para 9	REPPIR 2019, reg. 20 ("reference levels")	Emergency Preparedness & Response: This article will be transposed by forthcoming legislation in the EP&R workstream, to be notified at a later date.
53.2(b)	in exceptional situations, in order to save life, prevent severe radiation-induced health effects, or prevent the development of catastrophic conditions, a reference level for an effective dose from external radiation of emergency workers may be set above 100 mSv, but not exceeding 500 mSv.	N/A	N/A	N/A	Transport: CDG18, Sched 2, para 8	REPPIR 2019, reg. 19 ("disapplication of dose limits"), reg. 20 ("reference levels")	Emergency Preparedness & Response: This article will be transposed by forthcoming legislation in the EP&R workstream, to be notified at a later date.
53.3	Member States shall ensure that emergency workers who are liable to undertake actions whereby an effective dose of 100 mSv may be exceeded are clearly and comprehensively informed in advance of the associated health risks and the available protection measures and	N/A	N/A	N/A	Transport: CDG18, Sched 2, para 7	REPPIR 2019, reg. 18 (1) and (8) ("emergency exposures: employees")	Emergency Preparedness & Response: This article will be transposed by forthcoming legislation in the EP&R workstream, to be notified at a

	undertake these actions voluntarily.									later date.
53.4	In the event of an emergency occupational exposure, Member States shall require radiological monitoring of emergency workers. Individual monitoring or assessment of the individual doses shall be carried out as appropriate to the circumstances.	N/A	N/A	N/A	N/A	N/A	Transport: CDG18, Sched 2, para 3(6)(b)	REPPIR 2019, reg. 18 (1) and (9)-(12) (“emergency exposures: employees”)	Emergency Preparedness & Response: This article will be transposed by forthcoming legislation in the EP&R workstream, to be notified at a later date.	
53.5	In the event of an emergency occupational exposure, Member States shall require special medical surveillance of emergency workers, as defined in Article 49, to be carried out as appropriate to the circumstances.	N/A	N/A	N/A	N/A	N/A	Transport: CDG18, Sched 2, para 7(1)(d)	REPPIR 2019, reg. 18 (1)(d) and (9)-(12) (“emergency exposures: employees”)	Emergency Preparedness & Response: This article will be transposed by forthcoming legislation in the EP&R workstream, to be notified at a later date.	
54	Radon in workplaces									
54.1	Member States shall establish national reference levels for indoor radon concentrations in workplaces. The reference level for the annual average activity concentration in air shall not be higher than 300 Bq m ⁻³ , unless it is warranted by national prevailing	GB: IRR17 reg.3(1)(b) NI: IRR17(NI) reg.3(1)(b)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

	circumstances.	See below	See below	See below	See below	See below	See below
54.2	Member States shall require that radon measurements are carried out:	See below	See below	See below	See below	See below	See below
54.2(a)	(a) in workplaces within the areas identified in accordance with Article 103(3), that are located on the ground floor or basement level, taking into account parameters contained in the national action plan as under point 2 of Annex XVIII, as well as	GB: MHSWR99 reg.3 NI: IRR17(NI) MHSWR(NI) 2000 reg.3	N/A	N/A	N/A	N/A	N/A
54.2(b)	(b) in specific types of workplaces identified in the national action plan taking into account point 3 of Annex XVIII.	GB: MHSWR99 reg.3 NI: IRR17(NI) MHSWR(NI) 2000 reg.3	N/A	N/A	N/A	N/A	N/A
54.3	In areas within workplaces, where the radon concentration (as an annual average), continues to exceed the national reference level, despite the action taken in accordance with the principle of optimisation as set out in Chapter II, Member States shall require this situation to be notified in accordance	GB: IRR17 reg.3(1)(b), reg.5 NI: IRR17(NI) reg.3(1)(b), reg.5	N/A	N/A	N/A	N/A	N/A

	with Article 25(2) and Article 35(2) shall apply.												
Chapter VII	MEDICAL EXPOSURES												
55	Justification												
55.1	Medical exposure shall show a sufficient net benefit, weighing the total potential diagnostic or therapeutic benefits it produces, including the direct benefits to health of an individual and the benefits to society, against the individual detriment that the exposure might cause, taking into account the efficacy, benefits and risks of available alternative techniques having the same objective but involving no or less exposure to ionising radiation.	N/A											N/A
55.2	Member States shall ensure that the principle defined in paragraph 1 is applied and in particular that:	See below:	See below:	See below:	See below:	See below:	See below:	See below:	See below:	See below:	See below:	See below:	See below:
55.2(a)	new types of practices involving medical exposure are justified in advance before being generally adopted;	N/A											N/A
55.2(b)	all individual medical exposures are justified in advance taking into account the specific objectives of the	N/A											N/A
													UK: JOPIIRR04 regs. 4(1), (2), (75) and 5(1), (2) N/A

	exposure and the characteristics of the individual involved.		reg.11(2)(a); reg.11(4) NI: IR(ME)R (NI) 2018 reg. 10(5); reg.11(1)(b); reg.11(2)(a); reg.11(4) N/A	N/A	N/A	N/A	N/A	N/A	UK: JOPIIRR04 reg. 21
55.2(c))	if a type of practice involving medical exposure is not justified in general, a specific individual exposure of this type can be justified, where appropriate, in special circumstances, to be evaluated on a case-by-case basis and documented.	N/A	GB: IR(ME)R 2017 reg. 10(5); reg. 11(4) NI: IR(ME)R (NI) 2018 reg. 10(5); reg. 11(4)	N/A	N/A	N/A	N/A	N/A	N/A
55.2(d))	the referrer and the practitioner, as specified by Member States, seek, where practicable, to obtain previous diagnostic information or medical records relevant to the planned exposure and consider these data to avoid unnecessary exposure.	N/A	GB: IR(ME)R 2017 reg. 11(1)(d) NI: IR(ME)R (NI) 2018 reg. 11(1)(d)	N/A	N/A	N/A	N/A	N/A	N/A
55.2(e))	medical exposure for medical or biomedical research are examined by an ethics committee, set up in accordance with national procedures and/or by the competent authority;	N/A		N/A	N/A	N/A	N/A	N/A	N/A

55.2(f)	specific justification for medical radiological procedures to be performed as part of a health screening programme are carried out by the competent authority in conjunction with appropriate medical scientific societies or relevant bodies.	N/A	GB: IR(ME)R 2017 reg. 11(3)(a) NI: IR(ME)R (NI) 2018 reg. 11(3)(a)	N/A	N/A	N/A	N/A
55.2(g)	the exposure of carers and comforters show a sufficient net benefit, taking into account the direct health benefits to a patient, the possible benefits to the carer / comforter and the detriment that the exposure might cause.	N/A	GB: IR(ME)R 2017 reg. 11(3)(b) NI: IR(ME)R (NI) 2018 reg. 11(3)(b)	N/A	N/A	N/A	N/A
55.2(h)	any medical radiological procedure on an asymptomatic individual, to be performed for the early detection of disease, is part of a health screening programme, or requires specific documented justification for that individual by the practitioner, in consultation with the referrer, following guidelines from relevant medical scientific societies and the competent authority. Special attention shall be given to the provision of information to	N/A	GB: IR(ME)R 2017 reg.11(3)(a); reg.11(3)(c) NI: IR(ME)R (NI) 2018 reg.11(3)(a); reg.11(3)(c)	N/A	N/A	N/A	N/A

	the individual subject to medical exposure, as required by point (d) of Article 57(1).									
56	Optimisation	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
56.1	Member States shall ensure that all doses due to medical exposure for radiodiagnostic, interventional radiology, planning, guiding and verification purposes are kept as low as reasonably achievable consistent with obtaining the required medical information, taking into account economic and societal factors. For all medical exposure of patients for radiotherapeutic purposes, exposures of target volumes shall be individually planned and their delivery appropriately verified taking into account that doses to non-target volumes and tissues shall be as low as reasonably achievable and consistent with the intended radiotherapeutic purpose of the exposure.	N/A	N/A	N/A	N/A	GB: IR(ME)R 2017 reg.12(1); reg.12(2) NI: IR(ME)R (NI) 2018 reg.12(1); reg.12(2)	N/A	N/A	N/A	N/A
56.2	Member States shall ensure the establishment, regular review and use of diagnostic reference levels for	N/A	N/A	N/A	N/A	GB: IR(ME)R 2017 reg.6(5)(c)(i); reg.6(5)(c)(ii);	N/A	N/A	N/A	N/A

	radiodiagnostic examinations, having regard to the recommended European diagnostic reference levels where available, and where appropriate, for interventional radiology procedures, and the availability of guidance for this purpose.		Schedule 2(f) NI: IR(ME)R 2017 reg.6(5)(c)(i); reg.6(5)(c)(ii); Schedule 2(f)					
56.3	Member States shall ensure that for each medical or biomedical research project involving medical exposure: the individuals concerned participate voluntarily;	See below	See below	See below	See below	See below	See below	See below
56.3(a)		N/A	GB: IR(ME)R 2017 reg.12(4)(a) NI: IR(ME)R (NI) 2018 reg.12(4)(a) GB: IR(ME)R 2017 reg.12(4)(b) NI: IR(ME)R (NI) 2018 reg.12(4)(b)	N/A	N/A	N/A	N/A	N/A
56.3(b)	these individuals are informed about the risks of exposure;	N/A	GB: IR(ME)R 2017 reg.12(4)(b) NI: IR(ME)R (NI) 2018 reg.12(4)(b)	N/A	N/A	N/A	N/A	N/A
56.3(c)	a dose constraint is established for individuals for whom no direct medical benefit is expected from exposure;	N/A	GB: IR(ME)R 2017 reg.12(4)(c) NI: IR(ME)R (NI) 2018	N/A	N/A	N/A	N/A	N/A

56.3(d))	in the case of patients who voluntarily accept to undergo an experimental medical practice and who are expected to receive a diagnostic or therapeutic benefit from this practice, the dose levels concerned shall be considered on an individual basis by the practitioner and/or referrer prior to the exposure taking place.	N/A	N/A	N/A	N/A	N/A	reg.12(4)(c) GB: IR(ME)R 2017 reg.12(4)(d) NI: IR(ME)R (NI) 2018 reg.12(4)(D)	N/A	N/A	N/A
56.4	Member States shall ensure that the optimisation includes the selection of equipment, the consistent production of adequate diagnostic information or therapeutic outcomes, the practical aspects of medical radiological procedures, quality assurance, and the assessment and evaluation of patient doses or the verification of administered activities, taking into account economic and societal factors.	N/A	N/A	N/A	N/A	N/A	GB: IR(ME)R 2017 reg.12(3); reg. 12 (9); Schedule 2(e) NI: IR(ME)R 2017 reg.12(3); reg. 12 (9); Schedule 2(e)	N/A	N/A	N/A
56.5	Member States shall ensure that:	See below	See below	See below	See below	See below	See below	See below	See below	See below
56.5(a))	dose constraints are established for the exposure of carers and comforters,	N/A	N/A	N/A	N/A	N/A	GB: IR(ME)R 2017 reg. 6(5)(d)(ii);	N/A	N/A	N/A

56.5(b)	where appropriate; appropriate guidance is established for the exposure of carers and comforters.	N/A		Schedule 2(n) NI: IR(ME)R (NI) 2018 reg. 6(5)(d)(ii); Schedule 2(n) GB: IR(ME)R 2017 reg.12(5); Schedule 2(n) NI: IR(ME)R (NI) 2018 reg.12(5); Schedule 2(n)	N/A	N/A	N/A	N/A	N/A	N/A
56.6	Member States shall ensure that in the case of a patient undergoing treatment or diagnosis with radionuclides, the practitioner or the undertaking, as specified by Member States, provides the patient or their representative with information on the risks of ionising radiation and appropriate instructions with a view to restricting doses to persons in contact with the patient as far as reasonably achievable. For therapeutic procedures these shall be written instructions. These instructions shall be	N/A		GB: IR(ME)R 2017 reg.12(6); reg.12(7); Schedule 2(h); NI: IR(ME)R (NI) 2018 reg.12(6); reg.12(7); Schedule 2(h);	N/A	N/A	N/A	N/A	N/A	

	handed out before leaving the hospital or clinic or a similar institution.									
57	Responsibilities									
57.1	Member States shall ensure that:	See below:	See below:	See below:	See below:	See below:	See below:	See below:	See below:	See below:
57.1(a)	any medical exposure takes place under the clinical responsibility of a practitioner;	N/A	N/A	N/A	N/A	GB: IR(ME)R 2017 reg.10(2); reg.10(3); reg.10(5); reg.10(6) NI: IR(ME)R (NI) 2018 reg.10(2); reg.10(3); reg.10(5); reg.10(6)	N/A	N/A	N/A	N/A
57.1(b)	the practitioner, the medical physics expert and those entitled to carry out practical aspects of medical radiological procedures are involved, as specified by Member States, in the optimisation process;	N/A	N/A	N/A	N/A	GB: IR(ME)R 2017 reg.10(6); reg.12(1); reg.12(2); reg.12(3); reg.14(2)(d); reg.14(3)(a) NI: IR(ME)R (NI) 2018 reg.10(6); reg.12(1); reg.12(2); reg.12(3);	N/A	N/A	N/A	N/A

57.1(c)	the referrer and the practitioner are involved, as specified by Member States, in the justification process of individual medical exposures;	N/A	reg.14(2)(d); reg.14(3)(a) GB: IR(ME)R 2017 reg.10(2); reg.10(5) NI: IR(ME)R (NI) 2018 reg.10(2); reg.10(5)	N/A	N/A	N/A	N/A
57.1(d)	wherever practicable and prior to the exposure taking place, the practitioner or the referrer, as specified by Member States, ensures that the patient or their representative is provided with adequate information relating to the benefits and risks associated with the radiation dose from the medical exposure. Similar information as well as relevant guidance shall be given to carers and comforters, in accordance with point (b) of Article 56(5).	N/A	GB: IR(ME)R 2017 Schedule 2(i) NI: IR(ME)R (NI) 2018 Schedule 2(i)	N/A	N/A	N/A	N/A
57.2	Practical aspects of medical radiological procedures may be delegated by the undertaking or the practitioner, as appropriate, to one or more individuals entitled to act in this respect	N/A	GB: IR(ME)R 2017 reg.10(3) NI: IR(ME)R (NI) 2018 reg.10(3)	N/A	N/A	N/A	N/A

	in a recognised field of specialisation.								
58	Procedures								
58(a)	Member States shall ensure that: (a) written protocols for every type of standard medical radiological procedure are established for each equipment for relevant categories of patients;	N/A		N/A		N/A		N/A	N/A
58(b)	information relating to patient exposure forms part of the report of the medical radiological procedure;	N/A		N/A		N/A		N/A	N/A
58(c)	referral guidelines for medical imaging, taking into account the radiation doses, are available to the referrers;	N/A		N/A		N/A		N/A	N/A
58(d)	in medical radiological practices, a medical physics expert is appropriately involved, the level of involvement being commensurate with the radiological risk posed by the practice. In particular:	N/A		N/A		N/A		N/A	N/A

	<p>(i) in radiotherapeutic practices other than standardised therapeutic nuclear medicine practices, a medical physics expert shall be closely involved;</p> <p>(ii) in standardised therapeutical nuclear medicine practices as well as in radiodiagnostic and interventional radiology practices, involving high doses as referred to in point (c) of Article 61(1), a medical physics expert shall be involved;</p> <p>(iii) for other medical radiological practices not covered by points (a) and (b), a medical physics expert shall be involved, as appropriate, for consultation and advice on matters relating to radiation protection concerning medical exposure.</p>		<p>reg.14(1); reg.14(2); reg.14(3)</p>				
58(e)	<p>clinical audits are carried out in accordance with national procedures;</p>	N/A	<p>GB: IR(ME)R 2017 reg. 7 NI: IR(ME)R (NI) 2018 reg. 7</p>	N/A	N/A	N/A	N/A

58(f)	appropriate local reviews are undertaken whenever diagnostic reference levels are consistently exceeded and that appropriate corrective action is taken without undue delay.	N/A	GB: IR(ME)R 2017 reg. 6(7); Schedule 2(f) NI: IR(ME)R (NI) 2018 reg. 6(7); Schedule 2(f)	N/A	N/A	N/A	N/A
59	Training and recognition						
59	Member States shall ensure that training and recognition requirements, as laid down in Articles 79, 14 and 18, are met for the practitioner, the medical physics expert and the individuals referred to in Article 57(2).	N/A	GB: IR(ME)R 2017 reg.2 (definition of “medical physics expert”); reg.6 (3); reg.14; reg.17; Schedule 3 NI: IR(ME)R (NI) 2018 reg.2 (definition of “medical physics expert”); reg.6 (3); reg.17; Schedule 3	N/A	N/A	N/A	N/A
60	Equipment						
60.1	Member States shall ensure that:	See below	See below	See below	See below	See below	See below
60.1(a)	all medical radiological equipment in use is kept	N/A	GB: IR(ME)R 2017 reg.15;	N/A	N/A	N/A	N/A

	under strict surveillance regarding radiation protection;					Schedule 2(d) NI: IR(ME)R (NI) 2018 reg.15; Schedule 2(d) GB: IR(ME)R 2017 reg. 15(1)(b); reg.15(2) NI: IR(ME)R (NI) 2018 reg. 15(1)(b); reg.15(2) GB: IR(ME)R 2017 reg. 15(1)(a); Schedule 2(d) NI: IR(ME)R (NI) 2018 reg.15(1)(a); Schedule 2(d) GB: IR(ME)R 2017 reg. 15(3) NI: IR(ME)R (NI) 2018 reg. 15(3) GB: IR(ME)R 2017 reg.						
60.1(b)	an up-to-date inventory of medical radiological equipment for each medical radiological installation is available to the competent authority;	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
60.1(c)	appropriate quality assurance programmes and assessment of dose or verification of administered activity are implemented by the undertaking; and	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
60.1(d)	acceptance testing is carried out before the first use of the equipment for clinical purposes, and performance testing is carried out thereafter on a regular basis, and after any maintenance procedure liable to affect the performance.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
60.2	Member States shall ensure that the competent authority	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

	takes steps to ensure that the necessary measures are taken by the undertaking to improve inadequate or defective performance of medical radiological equipment in use. They shall also adopt specific criteria for the acceptability of equipment in order to indicate when appropriate corrective action is necessary, including taking the equipment out of service.								
60.3	Member States shall ensure that:	See below:	See below:	See below:	See below:	See below:	See below:	See below:	See below:
60.3(a)	the use of fluoroscopy equipment without a device to automatically control the dose rate, or without an image intensifier or equivalent device, is prohibited.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
60.3(b)	equipment used for external beam radiotherapy with a nominal beam energy exceeding 1 MeV has a device to verify key treatment parameters. Equipment installed prior to 6 February 2018 may be exempted from this requirement.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
60.3(c)	any equipment used for	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

)	<p>interventional radiology has a device or a feature informing the practitioner and those carrying out practical aspects of the medical procedures of quantity of radiation produced by the equipment during the procedure. Equipment installed prior to 6 February 2018 may be exempted from this requirement.</p>		<p>2017 reg. 16(3) NI: IR(ME)R (NI) 2018 reg. 16(3)</p>					
60.3(d))	<p>any equipment used for interventional radiology and computed tomography and any new equipment used for planning, guiding and verification purposes has a device or a feature informing the practitioner, at the end of the procedure, of relevant parameters for assessing the patient dose.</p>	N/A	<p>GB: IR(ME)R 2017 reg. 15(5); reg. 16(4) NI: IR(ME)R (NI) 2018 reg. 15(5); reg. 16(4)</p>	N/A	N/A	N/A	N/A	N/A
60.3(e))	<p>equipment used for interventional radiology and computed tomography has the capacity to transfer the information required under 3(d) to the record of the examination. Equipment installed prior to 6 February 2018 may be exempted from this requirement.</p>	N/A	<p>GB: IR(ME)R 2017 reg. 16(5) NI: IR(ME)R (NI) 2018 reg. 16(5)</p>	N/A	N/A	N/A	N/A	N/A
60.3(f)	<p>without prejudice to points (c), (d) and (e) of paragraph</p>	GB: IRR17 reg.33(2)	GB: IR(ME)R 2017 reg.	N/A	N/A	N/A	N/A	N/A

61.1(c)	involving high doses to the patient, which may be the case in interventional radiology, nuclear medicine, computed tomography or radiotherapy.	N/A	GB: IR(ME)R 2017 reg. 12(8)(c) NI: IR(ME)R (NI) 2018 reg. 12(8)(c)	N/A	N/A	N/A	N/A
61.1...	Special attention shall be given to quality assurance programmes and the assessment of dose or verification of administered activity for these practices.	N/A	GB: IR(ME)R 2017 reg. 12(3); reg. 12(8); reg. 15(1)(a); Schedule 2(d); Schedule 2(e) NI: IR(ME)R (NI) 2018 reg. 12(3); reg. 12(8); reg. 15(1)(a); Schedule 2(d); Schedule 2(e)	N/A	N/A	N/A	N/A
61.2	Member States shall ensure that practitioners and those individuals referred to in Article 57(2) who perform the exposures referred to in paragraph 1 obtain appropriate training on these medical radiological practices as required by Article 18.	N/A	GB: IR(ME)R 2017 reg. 6(3); reg. 17(1); Schedule 3 NI: IR(ME)R (NI) 2018 reg. 6(3); reg. 17(1); Schedule 3	N/A	N/A	N/A	N/A
62	Special protection during pregnancy and breastfeeding						

62.1	Member States shall ensure that the referrer or the practitioner, as appropriate, inquire, as specified by Member States, whether the individual subject to medical exposure is pregnant or breastfeeding, unless it can be ruled out for obvious reasons or is not relevant for the radiological procedure.	N/A	GB: IR(ME)R 2017 reg. 11(1)(f); Schedule 2(c) NI: IR(ME)R (NI) 2018 reg. 11(1)(f); Schedule 2(c)	N/A	N/A	N/A	N/A
62.2	If pregnancy cannot be ruled out and depending on the medical radiological procedure, in particular if abdominal and pelvic regions are involved, special attention shall be given to the justification, particularly the urgency, and to the optimisation, taking into account both the expectant individual and the unborn child.	N/A	GB: IR(ME)R 2017 reg. 11(3)(d)(i); reg. 12(8)(d) NI: IR(ME)R (NI) 2018 reg. 11(3)(d)(i) reg. 12(8)(d)	N/A	N/A	N/A	N/A
62.3	In the case of a breastfeeding individual, in nuclear medicine, depending on the medical radiological procedure, special attention shall be given to the justification, particularly the urgency, and to the optimisation, taking into account both the individual and the child.	N/A	GB: IR(ME)R 2017 reg. 11(3)(d)(ii); reg. 12(8)(e) NI: IR(ME)R (NI) 2018 reg. 11(3)(d)(ii) reg. 12(8)(e)	N/A	N/A	N/A	N/A

62.4	Without prejudice to paragraphs 1, 2 and 3, Member States shall take measures to increase the awareness of individuals to whom this Article applies, through measures such as public notices in appropriate places.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
63	Accidental and unintended exposures								
63	Member States shall ensure that:	See below:	See below:	See below:	See below:	See below:	See below:	See below:	See below:
63(a)	all reasonable measures are taken to minimise the probability and magnitude of accidental or unintended exposures of individuals subject to medical exposure;	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
63(b)	for radiotherapeutic practices the quality assurance programme includes a study of the risk of accidental or unintended exposures;	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
63(c)	for all medical exposures the undertaking implements an appropriate system for the record keeping and analysis of events involving or potentially involving	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

		accidental or unintended medical exposures, commensurate with the radiological risk posed by the practice;	N/A	GB: IR(ME)R 2017 reg. 8(1); Schedule 2(l) NI: IR(ME)R (NI) 2018 reg. 8(1) Schedule 2(l)	N/A	N/A	N/A	N/A	N/A
63(d)		arrangements are made to inform the referrer and the practitioner, and the patient, or their representative, about clinically significant unintended or accidental exposures and the results of the analysis;	N/A	GB: IR(ME)R 2017 reg.8(4) NI: IR(ME)R (NI) 2018 reg.8(4)	N/A	N/A	N/A	N/A	N/A
63(e)		(i) the undertaking declares as soon as possible to the competent authority the occurrence of significant events as defined by the competent authority; (ii) the results of the investigation and the corrective measures to avoid such events are reported to the competent authority within the time period specified by the Member State;	N/A	GB: IR(ME)R 2017 reg. 9 NI: IR(ME)R (NI) 2018	N/A	N/A	N/A	N/A	N/A
63(f)		mechanisms are in place for the timely dissemination of information, relevant to radiation protection in medical exposure, regarding lessons learned from	N/A		N/A	N/A	N/A	N/A	N/A

	significant events.								
64	Estimates of population doses					reg. 9			
64	Member States shall ensure that the distribution of individual dose estimates from medical exposure for radiodiagnostic and interventional radiology purposes is determined, taking into consideration where appropriate the distribution by age and gender of the exposed.	N/A	N/A	N/A	N/A	GB: IR(ME)R 2017 reg. 13 NI: IR(ME)R (NI) 2018 reg. 13	N/A	N/A	N/A
Chapter VIII	PUBLIC EXPOSURES								
65	Operational protection of members of the public								
65.1	Member States shall ensure that the operational protection of members of the public in normal circumstances from practices subject to licensing shall include, for relevant facilities, the following:	See below:	See below:	See below:	See below:	See below:	See below:	See below:	See below:
65.1(a)	examination and approval of the proposed siting of the facility from a radiation protection point of view,	N/A	N/A	N/A	N/A	N/A	England & Wales: EPR16 regs. 8, 12 and 35	N/A	UK: NIA65 sections 1 to 6 Town and Country

	taking into account relevant demographic, meteorological, hydrological and ecological conditions;										Planning Act 1990 Part 4
65.1(b)	acceptance into service of the facility subject to adequate protection being provided against any exposure or radioactive contamination liable to extend beyond the perimeter of the facility or radioactive contamination liable to extend to the ground beneath the facility;	N/A	N/A	England & Wales: EPR16 regs. 8, 12 and 35	N/A	N/A	N/A	N/A	N/A	N/A	UK: NIA65 sections 1 to 6
65.1(c)	examination and approval of plans for the discharge of radioactive effluents;	N/A	N/A	England & Wales: EPR16 regs. 8, 12 and 35	N/A	N/A	N/A	N/A	N/A	N/A	UK: NIA65 sections 1 to 6
65.1(d)	measures to control the access of members of the public to the facility.	N/A	N/A	England & Wales: EPR16 regs. 8, 12 and 35	N/A	N/A	N/A	N/A	N/A	N/A	UK: NIA65 sections 1 to 6
65.2	The competent authority shall where appropriate establish authorised limits as part of the discharge authorisation and conditions for discharging radioactive effluents which shall:	See below	See below	See below	See below	See below	See below	See below	See below	See below	See below
65.2(a)	take into account the results of the optimisation of radiation protection;EN L 13/28 Official Journal of the	N/A	N/A	England & Wales: EPR16: Schedule 23 –	N/A	N/A	N/A	N/A	N/A	N/A	N/A

	European Union 17.1.2014			Part 4, Section 1, <u>Statutory Guidance re Discharges and Public Dose Assessment Principles</u>				
65.2(b))	reflect good practice in the operation of similar facilities.	N/A?	N/A	England & Wales: EPR16: Schedule 23 – Part 4, Section 1, <u>Statutory Guidance re Discharges and Public Dose Assessment Principles</u>	N/A	N/A	N/A	N/A
65.2	In addition, these discharge authorisations shall take into account, where appropriate, the results of a generic screening assessment based on internationally recognised scientific guidance, where such an assessment has been required by the Member State, to demonstrate that environmental criteria for long-term human health protection are met.	N/A	N/A	England & Wales: EPR16: Schedule 23 – Part 4, Section 1, <u>Statutory Guidance re Discharges and Public Dose Assessment Principles</u>	N/A	N/A	N/A	N/A
65.3	For practices subject to	GB: IRRs (as	N/A	England &	N/A	N/A	N/A	N/A

	registration, Member States shall ensure the protection of members of the public in normal circumstances through appropriate national regulations and guidance.	a whole and particularly regs.9 and 12), MHSWR99 (as a whole) NI: IRR17(NI) IRRs(NI) (as a whole and particularly regs.9 and 12), MHSWR(NI) 2000 (as a whole)		Wales: EPR16 regs. 8, 12 and 35 and Schedule 23 – Part 4, Section 1			
66	Estimation of doses to the members of the public						
66.1	Member States shall ensure that arrangements are made for the estimation of doses to members of the public from authorised practices. The extent of such arrangements shall be proportionate to the exposure risk involved.	GB: IRR17 reg.12(4) NI: IRR17(NI) reg.12(4)	N/A	England & Wales: EPR16 Schedule 23 – Part 4 (para 2(2))	N/A	N/A	N/A
66.2	Member States shall ensure the identification of practices for which an assessment of doses to members of the public shall be carried out. Member States shall specify those practices for which this assessment needs to be	GB: IRR17 (1 st sentence) reg. 12 (2 nd sentence) reg. 12(4) NI: IRR17(NI) (1 st sentence)	N/A	England & Wales: EPR 2016 Schedule 23 – Part 4 (para 2(2))	N/A	N/A	N/A

	carried out in a realistic way and those for which a screening assessment is sufficient.	reg. 12 (2 nd sentence) reg. 12(4)							
66.3	For the realistic assessment of doses to the members of the public, the competent authority shall:	GB: IRR17 reg. 12(4) NI: IRR17(NI) reg. 12(4)	N/A	England & Wales: EPR16 Schedule 23 – Part 4 (para 2(2))	N/A	N/A	N/A	N/A	N/A
66.3(a)	decide on a reasonable extent of surveys to be conducted and information to be taken into account in order to identify the representative person, taking into account the effective pathways for transmission of the radioactive substances;	GB: IRR17 reg. 12(4) NI: IRR17(NI) reg. 12(4)	N/A	England & Wales: EPR16 Schedule 23 – Part 4 (para 2(2))	N/A	N/A	N/A	N/A	N/A
66.3(b)	decide on a reasonable frequency of monitoring of the relevant parameters as determined in point (a);	GB: IRR17 reg. 12(4) NI: IRR17(NI) reg. 12(4)	N/A	England & Wales: EPR16 Schedule 23 – Part 4 (para 2(2))	N/A	N/A	N/A	N/A	N/A
66.3(c)	ensure that the estimates of doses to the representative person include: i) assessment of the doses due to external radiation, indicating, where appropriate, the type of the radiation in question; ii) assessment of the intake of radionuclides, indicating	GB: IRR17 reg. 12(4) NI: IRR17(NI) reg. 12(4)	N/A	England & Wales: EPR16 Schedule 23 – Part 4 (para 2(2))	N/A	N/A	N/A	N/A	N/A

	discharges into the environment in normal operation and to report the results to the competent authority.									
67.2	Member States shall require any undertaking responsible for a nuclear power reactor or reprocessing plant to monitor discharges and report them in accordance with standardised information.	N/A	N/A	N/A	England & Wales: EPR16 Schedule 23 – Part 4 (para 9)	N/A	N/A	N/A	N/A	N/A
68	Tasks for the undertaking									
68	Member States shall require the undertaking to carry out the following tasks:	See below	See below	See below	See below	See below	See below	See below	See below	See below
68(a)	achieve and maintain an optimal level of protection of members of the public;	GB: IRR17 reg. 9, reg. 12, reg. 20 NI: IRR17(NI) reg. 9, reg. 12, reg. 20	N/A	N/A	England & Wales: EPR16 Schedule 23 – Part 4 (para 7)	N/A	N/A	N/A	N/A	N/A
68(b)	accept into service adequate equipment and procedures for measuring and assessing exposure of members of the public and radioactive contamination of the environment;	GB: IRR17 reg. 20(3) NI: IRR17(NI) reg. 20(3)	N/A	N/A	England & Wales: EPR16 Schedule 23 – Part 4 (para 7)	N/A	N/A	N/A	N/A	N/A
68(c)	check the effectiveness and maintenance of equipment as referred to in point (b) and ensure the regular calibration	GB: IRR17 reg. 20(4) NI: IRR17(NI)	N/A	N/A	England & Wales: EPR16 Schedule 23 –	N/A	N/A	N/A	N/A	N/A

	of measuring instruments;	reg. 20(4)	N/A	Part 4 (para 7)	N/A	N/A	N/A
68(d)	seek advice from a radiation protection expert in the performance of the tasks referred to in points (a), (b) and (c).	GB: IRR17 reg. 14 Schedule 4, para.3 NI: IRR17(NI) reg. 14 Sched 4, para 3	N/A	England & Wales: EPR16 Schedule 23 – Part 4 (para 7)	N/A	N/A	N/A
69	Emergency response						
69.1	Member States shall require the undertaking to notify the competent authority immediately of any emergency in relation to the practices for which it is responsible and to take all appropriate action to reduce the consequences.	Air & Space Crew: This article will be transposed by forthcoming legislation in the Air & Space Crew workstream, to be notified at a later date.	N/A	N/A	Transport: CDG18, Sched 2, para 6(2)	REPIR 2019, reg. 17(2) (“Implementation of Emergency Plans”)	Emergency Preparedness & Response: This article will be transposed by forthcoming legislation in the EP&R workstream, to be notified at a later date.
69.2	Member States shall ensure that, in the event of an emergency on their territory, the undertaking concerned makes an initial provisional assessment of the circumstances and consequences of the emergency and assists with protective measures.	Air & Space Crew: This article will be transposed by forthcoming legislation in the Air & Space Crew workstream, to be notified at a later date.	N/A	N/A	Transport: CDG18, Sched 2, para 6(6)(a)	REPIR 2019, reg. 17 (4) (“Implementation of Emergency Plans”)	Emergency Preparedness & Response: This article will be transposed by forthcoming legislation in the EP&R workstream, to be notified at a later date.
69.3	Member States shall ensure that provision is made for protective measures with	Air & Space Crew: This article will be	N/A		See below	REPIR 2019, Schedule 7, Part 2 (“Principles to which emergency plans must have regard”)	See below

	regard to:					transposed by forthcoming legislation in the Air & Space Crew workstream, to be notified at a later date.						
69.3(a))	the radiation source, to reduce or stop the radiation, including the release of radionuclides;		N/A	N/A	N/A	Air & Space Crew: This article will be transposed by forthcoming legislation in the Air & Space Crew workstream, to be notified at a later date.	Transport: CDG18, Sched 2, para 4(2)(a)	REPIR 2019, reg. 2 ("Interpretation"), specifically the definition for a "Radiation Emergency", Schedule 7, Part 2 ("Principles to which emergency plans must have regard")	Emergency Preparedness & Response: This article will be transposed by forthcoming legislation in the EP&R workstream, to be notified at a later date.			
69.3(b))	the environment, to reduce the exposure to individuals resulting from radioactive substances through relevant pathways;		N/A	N/A	N/A	Air & Space Crew: This article will be transposed by forthcoming legislation in the Air & Space Crew workstream, to be notified at a later date.	Transport: CDG18, Sched 2, para 4(2)(b)	REPIR 2019, reg. 2 ("Interpretation"), specifically the definition for a "Radiation Emergency", Schedule 7, Part 2 ("Principles to which emergency plans must have regard")	Emergency Preparedness & Response: This article will be transposed by forthcoming legislation in the EP&R workstream, to be notified at a later date.			
69.3(c))	individuals, to reduce their exposure.		N/A	N/A	N/A	Air & Space Crew: This article will be transposed by forthcoming	Transport: CDG18, Sched 2, para 4(2)(b)	REPIR 2019, reg. 2 ("Interpretation"), specifically the definition for a "Radiation Emergency", Schedule 7, Part 2 ("Principles to which emergency	Emergency Preparedness & Response: This article will be transposed			

69.4	In the event of an emergency on or outside its territory, the Member State shall require:	legislation in the Air & Space Crew workstream, to be notified at a later date. Air & Space Crew: This article will be transposed by forthcoming legislation in the Air & Space Crew workstream, to be notified at a later date.	N/A		See below	plans must have regard")	by forthcoming legislation in the EP&R workstream, to be notified at a later date. See below
69.4(a)	the organisation of appropriate protective measures, taking account of the real characteristics of the emergency and in accordance with the optimised protection strategy as part of the emergency response plan, whereby the elements to be included in an emergency response plan are indicated in Section B of Annex XI;	Air & Space Crew: This article will be transposed by forthcoming legislation in the Air & Space Crew workstream, to be notified at a later date.	N	N/A	Transport: CDG18, Sched 2, para 3	REPIR 2019 regs. 10 ("Operator's emergency plan"), 11 ("Local authority's off-site emergency plan"), Sched. 6 ("Information to be included in emergency plans"); Sched. 7, Part 1, para 1(a) ("Principles to which emergency plans must have regard"), Sched. 7, Part 2 ("Purposes of emergency plans")	Emergency Preparedness & Response: This article will be transposed by forthcoming legislation in the EP&R workstream, to be notified at a later date.

69.4(b))	the assessment and recording of the consequences of the emergency and of the effectiveness of the protective measures.	Air & Space Crew: This article will be transposed by forthcoming legislation in the Air & Space Crew workstream, to be notified at a later date.	N/A	N/A	Transport: CDG18, Sched 2, para 6(6)(a)	REPIR 2019, reg 17 (4) and (6) ("Implementation of emergency plans")	Emergency Preparedness & Response: This article will be transposed by forthcoming legislation in the EP&R workstream, to be notified at a later date.
69.5	The Member State shall, if the situation so requires, ensure that provision is made to organise the medical treatment of those affected.	Air & Space Crew: This article will be transposed by forthcoming legislation in the Air & Space Crew workstream, to be notified at a later date.	N/A	N/A	Transport: CDG18, Sched 2, para 4(2)(c)	REPIR 2019, regs. 10 ("Operator's emergency plan"), 11 ("Local authority's off-site emergency plan"), Sched. 6 ("Information to be included in emergency plans")	Emergency Preparedness & Response: This article will be transposed by forthcoming legislation in the EP&R workstream, to be notified at a later date.
70	Information to the members of the public likely to be affected in the event of an emergency						
70.1	Member States shall ensure that the members of the public likely to be affected in the event of an emergency are given information about the health protection measures applicable to them and about the action they should take in the event of	Air & Space Crew: This article will be transposed by forthcoming legislation in the Air & Space Crew workstream, to	N/A	N/A	Transport: CDG18, Sched 2, para 11(1) & (2)	REPIR 2019, reg. 21 ("Prior information to the public"), Sched. 8 ("Prior information for members of the public")	Emergency Preparedness & Response: This article will be transposed by forthcoming legislation in the EP&R workstream, to

70.2	such an emergency. The information supplied shall include at least the elements set out in Section A of Annex XII.	be notified at a later date. Air & Space Crew: This article will be transposed by forthcoming legislation in the Air & Space Crew workstream, to be notified at a later date.	N/A	N/A	Transport: CDG18, Sched 2, para 11(2)	REPPIR 2019, reg. 21 ("Prior information to the public"), Sched 8 ("Prior information for members of the public")	be notified at a later date. Emergency Preparedness & Response: This article will be transposed by forthcoming legislation in the EP&R workstream, to be notified at a later date.
70.3	The information shall be communicated to the members of the public referred to in paragraph 1 without any request being made.	Air & Space Crew: This article will be transposed by forthcoming legislation in the Air & Space Crew workstream, to be notified at a later date.	N/A	N/A	Transport: CDG18, Sched 2, para 11(1)	REPPIR 2019, reg. 21 ("Prior information to the public"), Sched 8 ("Prior information for members of the public")	Emergency Preparedness & Response: This article will be transposed by forthcoming legislation in the EP&R workstream, to be notified at a later date.
70.4	Member States shall ensure that the information is updated and distributed at regular intervals and whenever significant changes take place. This information shall be permanently available to the public.	Air & Space Crew: This article will be transposed by forthcoming legislation in the Air & Space Crew workstream, to be notified at a later date.	N/A	N/A	Transport: CDG18, Sched 2, para 11(1)	REPPIR 2019, reg. 21 ("Prior information to the public"), Sched 8 ("Prior information for members of the public")	Emergency Preparedness & Response: This article will be transposed by forthcoming legislation in the EP&R workstream, to be notified at a later date.

71	<p>Information to the members of the public actually affected in the event of an emergency</p>	Air & Space Crew: This article will be transposed by forthcoming legislation in the Air & Space Crew workstream, to be notified at a later date.	N/A	N/A	Emergency Preparedness & Response: This article is currently transposed by reg 17 of REPIR01 and will remain transposed by equivalent provision in the forthcoming legislation in the EP&R workstream, to be notified at a later date.	<p>REPIR 2019, reg. 22 ("Duty of local authority to supply information to the public in the event of an emergency"), Sched 9 ("Information to be supplied in the event of a radiation emergency")</p>	Emergency Preparedness & Response: This article will be transposed by forthcoming legislation in the EP&R workstream, to be notified at a later date.
71.1	Member States shall ensure that, when an emergency occurs, the members of the public actually affected are informed without delay about the facts of the emergency, the steps to be taken and, as appropriate, the health protection measures applicable to these members of the public.	Air & Space Crew: This article will be transposed by forthcoming legislation in the Air & Space Crew workstream, to be notified at a later date.	N/A	N/A	Emergency Preparedness & Response: This article is currently transposed by reg 17 of REPIR01 and will remain transposed by equivalent provision in the forthcoming legislation in the EP&R workstream, to be notified at a later date.	<p>REPIR 2019, reg. 22 ("Duty of local authority to supply information to the public in the event of an emergency"), Sched 9 ("Information to be supplied in the event of a radiation emergency")</p>	Emergency Preparedness & Response: This article will be transposed by forthcoming legislation in the EP&R workstream, to be notified at a later date.
71.2	The information provided shall cover those points listed in Section B of Annex XII which are relevant to the type of emergency.	Air & Space Crew: This article will be transposed by forthcoming legislation in the Air & Space Crew workstream, to be notified at a later date.	N/A	N/A	Emergency Preparedness & Response: This article is currently transposed by reg 17 of REPIR01 and will remain transposed by equivalent provision in the forthcoming	<p>REPIR 2019, reg. 22 ("Duty of local authority to supply information to the public in the event of an emergency"), Sched 9 ("Information to be supplied in the event of a radiation emergency")</p>	Emergency Preparedness & Response: This article will be transposed by forthcoming legislation in the EP&R workstream, to be notified at a later date.

72	Environmental monitoring programme											
72	Member States shall ensure that an appropriate environmental monitoring programme is in place.	N/A	N/A							N/A		N/A
73	Contaminated areas											
73.1	Member States shall ensure that optimised protection strategies for managing contaminated areas shall include, where applicable, the following:	See below:	See below:	See below:	See below:	See below:	See below:	See below:	See below:	See below:	See below:	See below:
73.1(a)	objectives, including long-term goals pursued by the strategy and corresponding reference levels, in accordance with Article 7;	N/A	N/A							N/A		N/A

73.1(b)	delineation of the affected areas and identification of the affected members of the public;	N/A	N/A	N/A	N/A	<p>modifications by the 2006 Regulations and the RCL Statutory Guidance [see note at top of table].</p> <p>Requirement to set reference levels: UK: IRMP18 reg. 4(3)</p> <p>England: Sections 78A (7A) and 78N EPA90, as applied with modifications by regs. 5 and 14 RCL06,</p>	N/A	N/A	N/A	N/A	N/A	N/A	N/A
73.1(c)	consideration of the need for and extent of protective measures to be applied to the affected areas and members of the public;	N/A	N/A	N/A	N/A	<p>England: Sections 78A (7A) and 78N of the EPA90, as applied with modifications by regs. 5 and 14 RCL06,</p> <p>GB: EPA90 Part IIA,</p>	N/A	N/A	N/A	N/A	N/A	N/A	N/A
73.1(d)	consideration of the need to prevent or control access to	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A

	the affected areas, or to impose restrictions on living conditions in these areas;			section 78A(7)(a) England: Sections 78A (7A) and 78N of the EPA90, as applied with modifications by regs. 5 and 14 RCL06,			
73.1(e)	assessment of the exposure of different groups in the population and assessment of the means available to individuals for controlling their own exposure.	N/A	N/A	England: Sections 78A (7A) and 78N of the EPA90, as applied with modifications by regs. 5 and 14 RCL06	N/A	N/A	N/A
73.2	For areas with long-lasting residual contamination in which the Member State has decided to allow habitation and the resumption of social and economic activities, Member States shall ensure, in consultation with stakeholders, that arrangements are in place, as necessary, for the ongoing control of exposure with the aim of establishing	See below:	See below:	See below:	N/A	N/A	See below:

	living conditions that can be considered as normal, including:												
73.2(a)	establishment of appropriate reference levels;	N/A	N/A		UK: IRMP18reg. 4(4)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
73.2(b)	establishment of an infrastructure to support continuing self-help protective measures in the affected areas, such as information provision, advice and monitoring;EN L 13/30 Official Journal of the European Union 17.1.2014	N/A	N/A		UK: IRMP18reg. 4(4)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
73.2(c)	if appropriate, remediation measures;	N/A	N/A		UK: IRMP18 reg. 4(4)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
73.2(d)	if appropriate, delineated areas.	N/A	N/A		UK: IRMP18 reg. 4(4)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
74	Indoor exposure to radon												
74.1	Member States shall establish national reference levels for indoor radon concentrations. The reference levels for the annual average activity concentration in air shall not be higher than 300 Bq m ⁻³ .	GB: IRR17 reg. 3(1)(b) NI: IRR17(NI) reg. 3(1)(b)	N/A		UK: IRMP18 reg. 8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
74.2	Under the national action plan referred to in Article 103, Member States shall promote action to identify dwellings, with radon concentrations (as an annual average) exceeding the	N/A	N/A		UK: IRMP18 reg. 10 [The draft UK Radon Action Plan identifies a range of measures and	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

	reference level and encourage, where appropriate by technical or other means, radon concentration-reducing measures in these dwellings.			activities that are used at different times and locations across the UK to meet the requirements of Art 74.2. Since these are often undertaken as individual projects or initiatives it would not be practical to list them individually in the Action Plan.]				
74.3	Member States shall ensure that local and national information is made available on indoor radon exposure and the associated health risks, on the importance of performing radon measurements and on the technical means available for reducing existing radon concentrations.	N/A	N/A	UK: IRMP18 reg. 9	N/A	N/A	N/A	N/A
75	Gamma radiation from building materials							
75.1	The reference level applying	N/A	N/A	UK: IRMP18	N/A	N/A	N/A	N/A

	to indoor external exposure to gamma radiation emitted by building materials, in addition to outdoor external exposure, shall be 1 mSv per year.			reg. 7(2)						
75.2	For building materials which are identified by the Member State as being of concern from a radiation protection point of view, taking into account the indicative list of materials set out in Annex XIII with regard to their emitted gamma radiation, Member States shall ensure that, before such materials are placed on the market:	See below:	See below:	See below:	N/A	N/A	N/A	N/A	N/A	See below:
75.2(a)	the activity concentrations of the radionuclides specified in Annex VIII are determined, and that,	N/A	N/A	UK: IRMP18 reg. 7(1)	N/A	N/A	N/A	N/A	N/A	N/A
75.2(b)	information to the competent authority on the results of measurements and the corresponding activity concentration index, as well as other relevant factors, as defined in Annex VIII, are provided if requested.	N/A	N/A	UK: IRMP18 reg. 7(1)	N/A	N/A	N/A	N/A	N/A	N/A
75.3	For types of building materials identified in accordance with paragraph 2 which are liable to give doses exceeding the reference	N/A	N/A	UK: IRMP18 reg. 7(2)	N/A	N/A	N/A	N/A	N/A	N/A

	level, Member States shall decide on appropriate measures, which may include specific requirements in relevant building codes or restrictions on the envisaged use of such materials.								
Chapter IX	GENERAL RESPONSIBILITIES OF MEMBER STATES AND COMPETENT AUTHORITIES AND OTHER REQUIREMENTS FOR REGULATORY CONTROL								
76	Competent authority								
76.1	Member States shall designate a competent authority to carry out tasks in accordance with this Directive. They shall ensure that the competent authority:	<p>GB: IRRs as a whole, HSWA74</p> <p>NI: IRR17(NI) IRRs(NI) as a whole, HSWO78</p>	<p>GB: IR(ME)R 2017 reg. 2 (definitions of “licensing authority” “medical physics expert” and “relevant enforcing authority”)</p> <p>NI: IR(ME)R (NI) 2018 reg. 2 (definitions of “licensing authority” “medical physics</p>	<p>GB: EA95</p> <p>England & Wales: EPR16</p> <p>GB: Section 78A(9) of EPA90 – definition of ‘enforcing authority’.</p>	<p>Transport: CDG09 Part 6, reg 25; EA13, Part 3, Chapter 1</p>	<p>EA13, Part 3, Chapter 1</p> <p>REPP19, reg. 2 (definition of ‘regulator’)</p> <p>HSWA74</p>	<p>Wales: AF(BSS)(Wales)R18 reg. 2 (definition of feed authority) and reg. 6 (enforcement)</p> <p>Scotland: AF(BSS)(Scotland)R18 reg. 2 (definition of feed authority) and reg. 6 (enforcement)</p> <p>Northern Ireland</p> <p>Ireland</p> <p>AF(BSS)(NI)R 18 reg. 2 (definition of DAERA) and</p>		

			expert" and "relevant enforcing authority")				reg. 6 (enforcement) UK: JOPIIRR04 reg. 6(1)
76.1(a))	is functionally separate from any other body or organisation concerned with the promotion or utilisation of practices under this Directive, in order to ensure effective independence from undue influence on its regulatory function;	GB: IRRs as a whole, HSWA74 NI: IRR17(NI) IRRs(NI) as a whole, HSWO78	GB: IR(ME)R 2017 reg. 2 (definitions of "licensing authority" "medical physics expert" and "relevant enforcing authority") NI: IR(ME)R (NI) 2018 reg. 2 (definitions of "licensing authority" "medical physics expert" and "relevant enforcing authority")	GB: EA95	Transport: CDG09 Part 6, reg 25; EA13, Part 3, Chapter 1	EA13, Part 3, Chapter 1	UK: JOPIIRR04 reg. 6(1A)
76.1(b))	is given the legal powers and human and financial resources necessary to fulfil its obligations.	GB: IRRs as a whole, HSWA74	GB: IR(ME)R 2017 reg. 2 (definitions of "licensing authority")	GB: EA95	Transport: CDG09 Part 6, reg 25; EA13, Part 3, Chapter 1	EA13, Part 3, Chapter 1	Scotland: AF(BSS)(Scotl and)R18 reg. 9

		<p>NI: IRR17(NI) IRRs(NI) as a whole, HSWO78</p>	<p>authority” “medical physics expert” and “relevant enforcing authority” NI: IR(ME)R (NI) 2018 reg. 2 (definitions of “licensing authority” “medical physics expert” and “relevant enforcing authority”)</p>		1		<p>(designation of draft Regulations as “designated feed law” under the Feed (Hygiene and Enforcement) (Scotland) Regulations 2005 to confer enforcement powers on the feed authority. Wales: AF(BSS)(Wales)R18 Reg. 7 (designation of draft Regulations as “designated feed law” under the Animal Feed (Hygiene, Sampling etc. and Enforcement) (Wales) Regulations 2016 to confer enforcement powers on the</p>
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76.2	Where a Member State has more than one competent authority for a given area of competence, it shall designate one point of contact for communication with the competent	N/A	N/A	N/A	N/A	N/A	<p>feed authority.</p> <p>Northern Ireland: AF(BSS)(NI)R reg.7 (designation of draft Regulations as "designated feed law" under the Animal Feed (Hygiene, Sampling etc. and Enforcement) Regulations (Northern Ireland) 2016 to confer enforcement powers on DAERA.</p> <p>UK: JOPIIR04 reg. 23</p>
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	authorities of other Member States. Where it is not reasonably practicable to list all such points of contact for different areas of competence, Member States may designate a single point of contact.											
76.3	Member States shall forward to the Commission the name and address of the points of contact and their respective areas of competence to enable rapid communication, where appropriate, with their authorities.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
76.4	Member States shall forward to the Commission any changes to the information referred to in paragraph 3.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
76.5	The Commission shall communicate the information referred to in paragraphs 3 and 4 to all points of contact in a Member State and shall publish it periodically in the Official Journal of the European Union, at intervals of no more than two years.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
77	Transparency											
77	Member States shall ensure that information in relation to the justification of classes or types of practices, the regulation of radiation	GB: IRR17 reg.15 HSA74 s.2(2)(c) HSA74 s.16	GB: IR(ME)R17 reg. 6 (1); reg. 6(8); reg. 9; reg. 12 (6) reg.	England & Wales: EPR16 reg. 46 and Schedule 27	N/A	N/A	N/A	N/A	N/A	N/A	N/A	UK: JOPIRR04 reg. 19

	sources and of radiation protection is made available to undertakings, workers, members of the public, as well as patients and other individuals subject to medical exposure. This obligation includes ensuring that the competent authority provides information within its fields of competence. Information shall be made available in accordance with national legislation and international obligations, provided that this does not jeopardise other interests such as, inter alia, security, recognised in national legislation or international obligations.	NI: IRR17(NI) reg. 15 HSWO78 Articles 4(2)(c), 18	12 (7); Schedule 2(h); Schedule 2(i) NI: IR(ME)R18 (NI) reg. 6 (1); reg. 6(8); reg. 9; reg. 12 (6); Schedule 2(h); Schedule 2(i)					
78	Information on equipment							
78.1	Member States shall ensure that any undertaking acquiring equipment containing radioactive sources or a radiation generator is provided with adequate information about its potential radiological hazards and its proper use, testing and maintenance, and with a demonstration that the design permits to restrict exposures to a level which is as low as	GB: IRR17 reg. 32 HWSA74 s.6 NI: IRR17(NI) reg.32 HWSO78 Article 7	MDR02, reg. 8 (with reference to: <u>Directive 90/385/EEC</u> , Annex 1, paragraphs 8 and 15; <u>Directive 93/42/EEC</u> , Annex 1, paragraphs 11 and 13; <u>Directive 98/79/EC</u> ,	N/A	N/A	N/A	N/A	N/A

78.2	Member States shall ensure that any undertaking acquiring medical	GB: IRR17 reg. 32, reg. 33	Annex I, paragraphs 5 and 8) <u>European medical device regulations (2017/745)</u> , Annex I: paragraph 16 and 23.4 (entered into force on 26 May 2017 and shall apply in full in the UK from 26 May 2020) <u>European in vitro diagnostic medical device regulations (2017/746)</u> , Annex I: paragraph 15 and 20.4 (entered into force on 26 May 2017 and shall apply in full in the UK from 26 May 2022)	N/A	N/A	N/A	N/A	N/A
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	<p>radiological equipment is provided with adequate information on the risk assessment for patients, and on the available elements of the clinical evaluation.</p>	<p>NI: IRR17(NI) reg. 32, reg. 33</p>	<p><u>90/385/EEC</u>, Annex 1, paragraphs 8 and 15; <u>Directive 93/42/EEC</u>, Annex 1, paragraphs 11 and 13; <u>Directive 98/79/EC</u>, Annex 1, paragraphs 5 and 8) European <u>medical device regulations (2017/745)</u>, Annex 1: paragraph 16 and 23.4 (entered into force on 26 May 2017 and shall apply in full in the UK from 26 May 2020) European <u>in vitro diagnostic medical device regulations (2017/746)</u>, Annex 1: paragraph 15 and 20.4</p>				
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					(entered into force on 26 May 2017 and shall apply in full in the UK from 26 May 2022)					
79	Recognition of services and experts	GB: http://webcommunities.hse.gov.uk/connect.tl/radiation.com/view?objectId=228176 http://www.hse.gov.uk/radiation/rpnews/statementrpa.htm http://www.hse.gov.uk/radiation/ionising/dosimetry/ads.htm								
79.1	Member states shall ensure that arrangements are in place for the recognition of:	See below								See below
79.1(a)	(a) occupational health services;	GB: IRR17 reg. 2(1) (definitions: “appointed doctor” and “employment medical advisor”)								N/A

79.1(b)	(b) dosimetry services;	<p>NI: IRR17(NI) reg. 2(1) (definitions: "appointed doctor" and "employment medical advisor")</p> <p>GB: IRR17 reg. 36; reg. 2(1) (definition: "approved dosimetry service")</p> <p>NI: IRR17(NI) reg. 36; reg. 2(1) (definition: "approved dosimetry service")</p> <p>GB: IRR17 reg. 2(1) (definition: "radiation Protection advisor")</p> <p>NI: IRR17(NI) reg. 2(1) (definition: "</p>	N/A	N/A	N/A	N/A	N/A	N/A
79.1(c)	(c) radiation protection experts;		N/A	N/A	<p>England & Wales: EPR16 Schedule 23 – Part 4 (para 7) and <u>statement on radioactive waste advisers</u></p>	N/A	N/A	N/A

79.1(d)	(d) medical physics experts.	"radiation protection advisor") N/A	GB: IR(ME)R 2017 Reg. 2 (definition of "medical physics expert"); reg. 14 NI: IR(ME)R (NI) 2018 Reg. 2 (definition of "medical physics expert"); reg. 14	N/A	N/A	N/A	N/A
79.1 ..	Member States shall ensure that the necessary arrangements are in place to ensure the continuity of expertise of these services and experts.	GB: IRR17 (2 nd Paragraph) 'continuity of expertise' reg. 2(1) (see definitions: "appointed doctor", "employment medical advisor". "approved dosimetry	N/A	England & Wales: EPR16 Radioactive Waste Advisers: Schedule 23 – Part 4 (para 7) and <u>statement on radioactive waste advisers</u>	N/A	N/A	N/A

		<p>service”, “radiation protection advisor”.</p> <p>NI: IRR17(NI) (2nd Paragraph) ‘continuity of expertise’</p> <p>reg. 2(1) (see definitions: “appointed doctor”, “employment medical advisor”, “approved dosimetry service”, “radiation protection advisor”.</p>					
79.1 ...	<p>If appropriate, Member States may establish the arrangements for the recognition of radiation protection officers.</p>	<p>N/A</p>	<p>N/A</p>	<p>N/A</p>	<p>N/A</p>	<p>N/A</p>	<p>N/A</p>
79.2	<p>Member States shall specify the recognition requirements and communicate them to the Commission.</p>	<p>GB: > RPA State ment http://www.hse</p>	<p>The following statement sets out how the Department of Health will comply with its</p>				

		<p>.gov.uk/radiation/rpne/statements/pa.htm</p> <p>➤ Appointed doctors criteria</p> <p>http://www.hse.gov.uk/doctors/about.htm</p> <p>➤ RADS</p> <p>http://www.hse.gov.uk/radiation/ionising/dosimetry/ads.htm</p> <p>Requirements for:</p> <p>http://www.hse.gov.uk/radiation/ionising/dosimetry/requirements-sup.pdf</p>	<p>legal responsibilities relating to MPEs as required by the BSSD: https://www.gov.uk/government/uploads/system/uploads/attachment_data/file/643737/MPE_statement.pdf</p>				
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	that dosimetry services determine internal or external doses to exposed workers subject to individual monitoring, in order to record the dose in cooperation with the undertaking and in the case of outside workers, the employer, and where relevant the occupational health service.	reg. 22 RADS Part 3 NI: IRR17(NI) reg. 22 RADS Part 3						
82	Radiation protection expert							
82.1	Member State shall ensure that the radiation protection expert gives competent advice to the undertaking on matters relating to compliance with applicable legal requirements, in respect of occupational and public exposure.	GB: IRR17 reg. 2(1) (definition: “radiation protection adviser”), reg. 14(1) NI: IRR17(NI) reg. 2(1) (definition: “radiation protection adviser”), reg. 14(1)	N/A	England & Wales: EPR16 Schedule 23 – Part 4 (para 7)	N/A	N/A	N/A	N/A
82.2	The advice of the radiation protection expert shall cover, where relevant, but not be limited to, the following:	See below	See below	See below	See below	See below	See below	See below
82.2(a)	optimisation and establishment of appropriate dose constraints;	GB: IRR17 reg. 14(1), reg. 9(1), reg. 9(3), reg. 9(4)	N/A	N/A	N/A	N/A	N/A	N/A

82.2(b)	plans for new installations and the acceptance into service of new or modified radiation sources in relation to any engineering controls, design features, safety features and warning devices relevant to radiation protection;	<p>NI: IRR17(NI) 14(1), 9(1), (3), (4)</p> <p>GB: IRR17 14(1), 11, 32, Sched. 4, para. 2</p> <p>NI: IRR17(NI) reg. 14(1), reg. 11, reg. 32, Sched 4, para 2</p>	N/A	N/A	N/A	N/A	N/A	N/A
82.2(c)	categorisation of controlled and supervised areas;	<p>GB: IRR17 reg. 14(1), reg. 17, Sched.4, para.1</p> <p>NI: IRR17(NI) reg. 14(1), reg. 17, Sched 4, para 1</p>	N/A	N/A	N/A	N/A	N/A	N/A
82.2(d)	classification of workers;	<p>GB: IRR17 reg. 14(1), reg. 21</p> <p>NI: IRR17(NI) reg. 14(1), reg. 21</p>	N/A	N/A	N/A	N/A	N/A	N/A
82.2(e)	workplace and individual monitoring programmes and related personal dosimetry;	<p>GB: IRR17 reg. 14(1), reg. 20, reg. 22</p>	N/A	N/A	N/A	N/A	N/A	N/A

82.2(f)	appropriate radiation monitoring instrumentation;	<p>NI: IRR17(NI) reg. 14(1), reg. 20, reg. 22</p> <p>GB: IRR17 reg. 14(1), reg. 20(3), reg. 22(2)</p> <p>NI: IRR17(NI) reg. 14(1), reg. 20(3), reg. 22(2)</p>	N/A	England & Wales: EPR16 Schedule 23 – Part 4 (para 7)	N/A	N/A	N/A
82.2(g)	quality assurance;	<p>GB: IRR17 reg. 14(1), reg. 33(3) (medical equipment) Sched.4, paras. 3-4 RADS, RPA Statement</p> <p>NI: IRR17(NI) reg. 14(1), reg. 33(3) (medical equipment) Sched 4, paras 3-4 RADS, RPA Statement</p>	N/A	N/A	N/A	N/A	N/A
82.2(h)	environmental monitoring programme;	N/A	N/A	England & Wales: EPR16 Schedule 23 –	N/A	N/A	N/A

82.2(i)	arrangements for radioactive waste management;	N/A	N/A	Part 4 (para 9)	N/A	N/A	N/A	N/A
82.2(j)	arrangements for prevention of accidents and incidents;	GB: IRR17 reg. 14(1), reg. 13(2)(d), reg. 8 NI: IRR17(NI) reg. 14(1), reg. 13(2)(d), reg. 8	N/A	N/A	N/A	N/A	N/A	N/A
82.2(k)	preparedness and response in emergency exposure situations;	GB: N/A NI: N/A	N/A	N/A	N/A	N/A	N/A	N/A
82.2(l)	training and retraining programmes for exposed workers;	GB: IRR17 reg. 14(1), reg. 15 NI: IRR17(NI) reg. 14(1), reg. 15	N/A	N/A	N/A	N/A	N/A	N/A
82.2(m)	investigation and analysis of accidents and incidents and appropriate remedial actions;	GB: IRR17 reg. 14(1), reg. 13(1), reg. 13(2)(d) NI: IRR17(NI) reg. 14(1), reg. 13(1), reg. 13(2)(d)	N/A	N/A	N/A	N/A	N/A	N/A
82.2(n)	employment conditions for pregnant and breastfeeding workers;	GB: IRR17 reg. 14(1), reg. 9(6)	N/A	N/A	N/A	N/A	N/A	N/A

83.2	Member States shall ensure that depending on the medical radiological practice, the medical physics expert takes responsibility for dosimetry, including physical measurements for evaluation of the dose delivered to the patient and other individuals subject to medical exposure, give advice on medical radiological equipment, and contribute in particular to the following:	N/A	GB: IR(ME)R 2017 reg. 14(2); reg. 14(3) NI: IR(ME)R (NI) 2018 reg. 14(2); reg. 14(3)	N/A	N/A	N/A	N/A	N/A
83.2(a)	optimisation of the radiation protection of patients and other individuals subject to medical exposure, including the application and use of diagnostic reference levels;	N/A	GB: IR(ME)R 2017 reg. 14(3)(a) NI: IR(ME)R (NI) 2018 reg. 14(3)(a)	N/A	N/A	N/A	N/A	N/A
83.2(b)	the definition and performance of quality assurance of the medical radiological equipment;	N/A	GB: IR(ME)R 2017 reg. 14(3)(b) NI: IR(ME)R (NI) 2018 reg. 14(3)(b) GB: IR(ME)R 2017 reg. 14(3)(c)	N/A	N/A	N/A	N/A	N/A
83.2(c)	acceptance testing of medical radiological equipment;	N/A		N/A	N/A	N/A	N/A	N/A

83.2(d))	the preparation of technical specifications for medical radiological equipment and installation design;	N/A	GB: IR(ME)R 2017 reg. 14(3)(d) NI: IR(ME)R (NI) 2018 reg. 14(3)(c)	N/A	N/A	N/A	N/A	N/A
83.2(e))	the surveillance of the medical radiological installations;	N/A	GB: IR(ME)R 2017 reg. 14(3)(e) NI: IR(ME)R (NI) 2018 reg. 14(3)(e)	N/A	N/A	N/A	N/A	N/A
83.2(f))	the analysis of events involving, or potentially involving, accidental or unintended medical exposures;	N/A	GB: IR(ME)R 2017 reg. 14(3)(f) NI: IR(ME)R (NI) 2018 reg. 14(3)(f)	N/A	N/A	N/A	N/A	N/A
83.2(g))	the selection of equipment required to perform radiation protection measurements;	N/A	GB: IR(ME)R 2017 reg. 14(3)(g) NI: IR(ME)R (NI) 2018 reg. 14(3)(g)	N/A	N/A	N/A	N/A	N/A
83.2(h))	the training of practitioners and other staff in relevant aspects of radiation protection;	N/A	GB: IR(ME)R 2017 reg. 14(3)(h) NI: IR(ME)R (NI) 2018 reg.	N/A	N/A	N/A	N/A	N/A

83.3	The medical physics expert shall, where appropriate, liaise with the radiation protection expert.	N/A	14(3)(h) GB: IR(ME)R 2017 reg. 14(4) NI: IR(ME)R (NI) 2018 reg. 14(4)	N/A	N/A	N/A	N/A
84	Radiation protection officer						
84.1	Member States shall decide in which practices the designation of a radiation protection officer is necessary to supervise or to perform radiation protection tasks within an undertaking. Member States shall require undertakings to provide the radiation protection officers with the means necessary for them to carry out their tasks. The radiation protection officer shall report directly to the undertaking. Member States may require employers of outside workers to designate a radiation protection officer as necessary to supervise or perform relevant radiation protection tasks as they relate to the protection of their workers.	GB: IRR17 (1 st sentence) reg.18(5)(a) (2 nd sentence) reg.18(5)(c) (3 rd sentence) reg.18(5)(a) (4 th sentence) OWs GB: Optional NI: IRR17(NI) (1 st sentence) reg.18(5)(a) (2 nd sentence) reg.18(5)(c) (3 rd sentence) NI: IRR17(NI) reg.18(5)(a) (4 th sentence)	N/A	N/A	N/A	N/A	N/A

		OWs Optional	See below:	See below:	See below:	See below:	See below:	See below:
84.2	Depending on the nature of the practice, the tasks of the radiation protection officer in assisting the undertaking, may include the following:	See below:	See below:	See below:	See below:	See below:	See below:	See below:
84.2(a)	ensuring that work with radiation is carried out in accordance with the requirements of any specified procedures or local rules;	GB: IRR17 18(5) (a) read with 18(2) NI: IRR17(NI) 18(5) (a) read with 18(2)	N/A	N/A	N/A	N/A	N/A	N/A
84.2(b)	supervise implementation of the programme for workplace monitoring;	GB: IRR17 18(5) read with 20 NI: IRR17(NI) 18(5) read with 20	N/A	N/A	N/A	N/A	N/A	N/A
84.2(c)	maintaining adequate records of all radiation sources;	GB: IRR17 18(5) (a) read with 29 NI: IRR17(NI) 18(5)(a) read with 29	N/A	N/A	N/A	N/A	N/A	N/A
84.2(d)	carrying out periodic assessments of the condition of the relevant safety and warning systems;	GB: IRR17 18(5) (a) read with 11 and 33.3	N/A	N/A	N/A	N/A	N/A	N/A

84.2(e)	supervise implementation of the personal monitoring programme;	NI: IRR17(NI) 18(5)(a) read with 11 and 33.3 GB: IRR17 18(5)(a) read with 22 NI: IRR17(NI) 18(5)(a) read with 22	N/A	N/A	N/A	N/A	N/A	N/A	N/A
84.2(f)	supervise implementation of the health surveillance programme;	GB: IRR17 18(5) (a) read with 25 NI: IRR17(NI) 18(5)(a) read with 25	N/A	N/A	N/A	N/A	N/A	N/A	N/A
84.2(g)	providing new workers with an appropriate introduction to local rules and procedures;	GB: IRR17 18(5) (a) read with 18(4) NI: IRR17(NI) 18(5)(a) read with 18(4)	N/A	N/A	N/A	N/A	N/A	N/A	N/A
84.2(h)	giving advice and comments on work plans;	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
84.2(i)	establishing work plans;	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
84.2(j)	providing reports to the local management;	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

84.2(k)	participating in the arrangements for prevention, preparedness and response for emergency exposure situations;	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
84.2(l)	information and training of exposed workers;	GB: IRR17 reg. 18(5) (a) read with 15 NI: IRR17(NI) reg. 18(5)(a) read with 15	N/A	N/A	N/A	N/A	N/A	N/A	N/A
84.2(m)	liaising with the radiation protection expert.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
84.3	The task of the radiation protection officer may be carried out by a radiation protection unit established within an undertaking or by a radiation protection expert.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
85	General requirements for unsealed sources								
85.1	Member States shall ensure that arrangements are made for keeping control of unsealed sources with regard to their location, use and, when no longer required, their recycling or disposal.	GB: IRR17 reg. 29, reg. 30 NI: IRR17(NI) reg. 29, reg. 30	N/A	N/A	England & Wales: EPR16 Schedule 23 – Part 5 (para 5)	N/A	N/A	N/A	N/A
85.2	Member States shall require the undertaking, as appropriate and to the extent possible, to keep records of unsealed sources under its responsibility, including	GB: IRR17 reg. 29 NI: IRR17(NI) reg. 29	N/A	N/A	England & Wales: EPR16 Schedule 23 – Part 5 (para 5)	N/A	N/A	N/A	N/A

	location, transfer and disposal or discharge.		N/A		N/A		N/A		N/A		N/A
85.3	Member States shall require each undertaking holding an unsealed radioactive source to notify the competent authority promptly of any loss, theft, significant spill, or unauthorised use or release.	GB: IRR17 reg. 31(1) and (3) NI: IRR17(NI) reg. 31(1) and (3)	N/A		England & Wales: EPR16 Schedule 23 – Part 5 (para 5)		N/A		N/A		N/A
86	General requirements for sealed sources										
86.1	Member States shall ensure that arrangements are made for keeping control of sealed sources with regard to their location, use and, when no longer required, their recycling or disposal.	GB: IRR17 reg. 29, reg. 30 NI: IRR17(NI) reg. 29, reg. 30	N/A		England & Wales: EPR16 Schedule 23 – Part 5 (para 5)		N/A		N/A		N/A
86.2	Member States shall require the undertaking to keep records of all sealed sources under its responsibility, including location, transfer and disposal.	GB: IRR17 reg. 29 NI: IRR17(NI) reg. 29	N/A		England & Wales: EPR16 Schedule 23 – Part 5 (para 5)		N/A		N/A		N/A
86.3	Member States shall establish a system to enable them to be adequately informed of any transfer of high activity sealed sources and where necessary individual transfers of sealed sources.	N/A	N/A		England & Wales: EPR16 Schedule 23 – Part 5 (para 5)		N/A		N/A		N/A
86.4	Member States shall require each undertaking holding a sealed source to notify the	GB: IRR17 reg. 31(1) and (3)	N/A		England & Wales: EPR16 Schedule 23 –		N/A		N/A		N/A

			NI: IRR17(NI) reg. 31(1) and (3)			Part 5 (para 5)			
87	competent authority promptly of any loss, significant leakage, theft or unauthorised use of a sealed source.	Requirements for control of high-activity sealed sources							
87	Member States shall ensure that, before issuing authorisation for practices involving a high-activity sealed source:		N/A	N/A	N/A	England & Wales: EPR16 Schedule 23 – Part 5 (para 5)	N/A	N/A	N/A
87(a)	adequate arrangements have been made for the safe management and control of sources, including when they become disused sources. Such arrangements may provide for the transfer of disused sources to the supplier or their placement in a disposal or storage facility or an obligation for the manufacturer or the supplier to receive them;		N/A	N/A	N/A	England & Wales: EPR16 Schedule 23 – Part 5 (para 5)	N/A	N/A	N/A
87(b)	adequate provision, by way of a financial security or any other equivalent means appropriate for the source in question, has been made for the safe management of sources when they become disused sources, including the case where the		N/A	N/A	N/A	England & Wales: EPR16 Schedule 23 – Part 5 (para 5)	N/A	N/A	N/A

	undertaking becomes insolvent or ceases its activities.										
88	Specific requirements for licensing of high-activity sealed sources										
88	In addition to the general licensing requirements set out in Chapter V, Member States shall ensure that the licence for a practice involving a high-activity sealed source includes, but does not have to be limited to:	See below:	See below:	See below:	See below:	See below:	See below:	See below:	See below:	See below:	See below:
88(a)	responsibilities;	N/A	N/A	England & Wales: EPR16 Schedule 23 – Part 5 (para 5)	N/A	N/A	N/A	N/A	N/A	N/A	N/A
88(b)	minimum staff competencies, including information and training;	N/A	N/A	England & Wales: EPR16 Schedule 23 – Part 5 (para 5)	N/A	N/A	N/A	N/A	N/A	N/A	N/A
88(c)	minimum performance criteria for the source, source container and additional equipment;	N/A	N/A	England & Wales: EPR16 Schedule 23 – Part 5 (para 5)	N/A	N/A	N/A	N/A	N/A	N/A	N/A
88(d)	requirements for emergency procedures and communication links;	N/A	N/A	England & Wales: EPR16 Schedule 23 – Part 5 (para 5)	N/A	N/A	N/A	N/A	N/A	N/A	N/A
88(e)	work procedures to be followed;	N/A	N/A	England & Wales: EPR16 Schedule 23 – Part 5 (para 5)	N/A	N/A	N/A	N/A	N/A	N/A	N/A

88(f)	maintenance of equipment, sources and containers;	N/A	N/A	N/A	England & Wales: EPR16 Schedule 23 – Part 5 (para 5)	N/A	N/A	N/A
88(g)	adequate management of disused sources, including agreements regarding the transfer, if appropriate, of disused sources to a manufacturer, a supplier, another authorised undertaking or a waste disposal or storage facility.	N/A	N/A	N/A	England & Wales: EPR16 Schedule 23 – Part 5 (para 5)	N/A	N/A	N/A
89	Record keeping by the undertaking							
89	Member States shall require that the records for high-activity sealed sources include the information set out in Annex XIV and that the undertaking provides the competent authority with an electronic or written copy of all or part of these records upon request and at least under the following conditions:	See below:	See below:	See below:	See below:	See below:	See below:	See below:
89(a)	without undue delay, at the time of the establishment of such records, which shall be as soon as is reasonably practicable after the source is acquired;	N/A	N/A	N/A	England & Wales: EPR16 Schedule 23 – Part 5 (para 5)	N/A	N/A	N/A
89(b)	at intervals to be determined by Member States;	N/A	N/A	N/A	England & Wales: EPR16	N/A	N/A	N/A

89(c)	if the situation indicated on the information sheet has changed;	N/A	N/A	N/A	Schedule 23 – Part 5 (para 5) England & Wales: EPR16 Schedule 23 – Part 5 (para 5)	N/A	N/A	N/A	N/A	N/A
89(d)	without undue delay upon the closure of the records for a specific source when the undertaking no longer holds this source, whereby the name of the undertaking or waste disposal or storage facility to which the source is transferred shall be included;EN L 13/34 Official Journal of the European Union 17.1.2014	N/A	N/A	N/A	England & Wales: EPR16 Schedule 23 – Part 5 (para 5)	N/A	N/A	N/A	N/A	N/A
89(e)	without undue delay upon the closure of such records when the undertaking no longer holds any sources.	N/A	N/A	N/A	England & Wales: EPR16 Schedule 23 – Part 5 (para 5)	N/A	N/A	N/A	N/A	N/A
89.....	The undertaking's records shall be available for inspection by the competent authority.	N/A	N/A	N/A	England & Wales: EPR16 Schedule 23 – Part 5 (para 5)	N/A	N/A	N/A	N/A	N/A
90	Record keeping by the competent authority									
90	Member States shall ensure that the competent authority keeps records of any undertaking authorised to perform practices with high-activity sealed sources and of the high-activity sealed	N/A	N/A	N/A	England & Wales: EPR16 Schedule 23 – Part 5 (para 6)	N/A	N/A	N/A	N/A	N/A

	sources held. These records shall include the radionuclide involved, the activity at the time of manufacture or, if this activity is not known, the activity at the time of the first placing on the market or at the time the undertaking acquired the source, and the type of source. The competent authority shall keep the records up to date, taking transfers of the sources and other factors into account.								
91	Control of high-activity sealed sources								
91.1	Member States shall require that the undertaking carrying out activities involving high activity sealed sources complies with requirements set out in Annex XV.	GB: IRR17 reg. 28(3) AND reg. 31(3) NI: IRR17(NI) reg. 28(3) AND reg. 31(3) N/A	N/A	England & Wales: EPR16 Schedule 23 – Part 5 (para 5)	N/A	N/A	N/A	N/A	N/A
91.2	Member States shall require that the manufacturer, the supplier, and each undertaking ensures that high-activity sealed sources and containers comply with the requirements for identification and marking as set out in Annex XVI.	N/A	N/A	England & Wales: EPR16 Schedule 23 – Part 5 (para 5)	N/A	N/A	N/A	N/A	N/A

92	Detection of orphan sources	See below:	N/A	See below:	See below:	See below	See below
92.1	Member States shall ensure that arrangements are made for:	See below:	N/A	See below:	See below	See below	See below
92.1(a)	raising general awareness of the possible occurrence of orphan sources and associated hazards; and	GB: HSWA74 13(1) NI: IRR17(NI) HSWO78 13(1)	N/A	UK: IRMP18 reg. 13	N/A	N/A	N/A
92.1(b)	issuing guidance for persons who suspect or have knowledge of the presence of an orphan source on informing the competent authority and on the actions to be taken.	GB: HSWA74 13(1) NI: IRR17(NI) HSWO78 13(1)	N/A	UK: IRMP18 reg. 13	N/A	N/A	N/A
92.2	Member States shall encourage the establishment of systems aimed at detecting orphan sources in places such as large metal scrap yards and major metal scrap recycling installations where orphan sources may generally be encountered, or at significant nodal transit points, wherever appropriate.	GB: MHSWR99, reg. 3 NI: MHSWR(NI) 2000, reg. 3	N/A	N/A	N/A	N/A	N/A
92.3	Member States shall ensure that specialised technical advice and assistance is promptly made available to persons who suspect the presence of an orphan	N/A	N/A	England & Wales: EPR 2016 Schedule 23 – Part 5 (para 4)	N/A	N/A	N/A

	<p>source and who are not normally involved in operations subject to radiation protection requirements. The primary aim of advice and assistance shall be the protection of workers and members of the public from radiation and the safety of the source.</p>						
93	Metal contamination						
93.1	<p>Member States shall encourage the establishment of systems to detect the presence of radioactive contamination in metal products imported from third countries, in places such as at major metal importing installations or at significant nodal transit points.</p>	<p>GB: MHSWR99, reg. 3 NI: MHSWR(NI) 2000, reg. 3</p>	N/A	N/A	N/A	N/A	N/A
93.2	<p>Member States shall require that the management of a metal scrap recycling installation promptly informs the competent authority if it suspects or has knowledge of any melting of or other metallurgical operation on an orphan source and shall require that the contaminated materials are not used, placed on the market or disposed of without the involvement of the competent</p>	<p>GB: IRR17 reg. 2(1) (definition of “practice”), reg. 5 NI: IRR17(NI) reg. 2(1) (definition of “practice”), reg. 5</p>	N/A	England & Wales: EPR16 regs. 8, 12 and 35 and permit conditions	N/A	N/A	N/A

94	<p>authority.</p> <p>Recovery, management, control and disposal of orphan sources</p>							
94.1	<p>Member States shall ensure that the competent authority is prepared, or has made provision, including of assignment responsibilities, to control and recover orphan sources and to deal with emergencies due to orphan sources and have drawn up appropriate response plans and measures.</p>	N/A	N/A	<p>England & Wales: EPR16 Schedule 23 – Part 5 (para 8)</p>	N/A	N/A	N/A	N/A
94.2	<p>Member States shall ensure that campaigns are organised, as appropriate, to recover orphan sources left behind from past practices.</p> <p>The campaigns may include the financial participation of Member States in the costs of recovering, managing, controlling and disposing of the sources and may also include surveys of historical records of authorities and of undertakings, such as research institutes, material testing institutes or hospitals.</p>	N/A	N/A	<p>UK: IRMP18 reg. 14</p>	N/A	N/A	N/A	N/A
95	<p>Financial security for orphan sources</p>							

95	Member States shall ensure that a financial security system or other equivalent means is established to cover intervention costs relating to the recovery of orphan sources and which may result from implementation of Article 94.	N/A	N/A	N/A	England & Wales: EPR16 Schedule 23 – Part 5 (para 8)	N/A	N/A	N/A
96	Notification and recording of significant events							
96	Member States shall require the undertaking to:	See below:	See below:	See below:	See below:	See below:	See below:	See below:
96(a)	implement, as appropriate, a recording and analysis system of significant events involving or potentially involving accidental or unintended exposures;	GB: IRR17 reg. 13(2)(d) NI: IRR17(NI) reg. 13(2)(d)	GB: IR(ME)R 2017 reg. 8(3) NI: IR(ME)R (NI) 2018 reg. 8(3)	England & Wales: EPR16 Schedule 23 – Part 5, Part 1 (para 20)	N/A	N/A	N/A	N/A
96(b)	promptly notify the competent authority of the occurrence of any significant event resulting or liable to result in the exposure of an individual beyond the operational limits or conditions of operation specified in authorising requirements with regard to occupational or public exposure or as defined by the competent authority for medical exposure, including the results of the	GB: IRR17 reg. 26 NI: IRR17(NI) reg. 26	GB: IR(ME)R 2017 reg. 8(4) NI: IR(ME)R (NI) 2018 reg. 8(4)	England & Wales: EPR16: Schedule 23 – Part 5, Part 1 (para 20)	N/A	N/A	N/A	N/A

	investigation and the corrective measures to avoid such events.									
97	Emergency management system									
97.1	Member States shall ensure that account is taken of the fact that emergencies may occur on their territory and that they may be affected by emergencies occurring outside their territory. Member States shall establish an emergency management system and adequate administrative provisions to maintain such a system. The emergency management system shall include the elements listed in Section A of Annex XI.	N/A	N/A	N/A	N/A	Transport: CDG18 Sched 2; CCA04	REPIIR 2019; CCA04	Emergency Preparedness & Response: This article will be transposed by forthcoming legislation in the EP&R workstream, to be notified at a later date.		
97.2	The emergency management system shall be designed to be commensurate with the results of an assessment of potential emergency exposure situations and to be able to respond effectively to emergency exposure situations in connection with practices or unforeseen events.	N/A	N/A	N/A	N/A	Transport: CDG18 Sched 2; IRR17 reg 8	REPIIR 2019	Emergency Preparedness & Response: This article will be transposed by forthcoming legislation in the EP&R workstream, to be notified at a later date.		
97.3	The emergency management system shall provide for the establishment of emergency	N/A	N/A	N/A	N/A	Transport: CDG18 Sched 2, paras 3-6	REPIIR 2019 , (“Operator’s emergency plan”), 11 (“Local authority’s off-site emergency plan”),	Emergency Preparedness & Response:		

	<p>response plans with the objective of avoiding tissue reactions leading to severe deterministic effects in any individual from the affected population and reducing the risk of stochastic effects, taking account of the general principles of radiation protection and the reference levels referred to in Chapter III.</p> <p>Chapter 3 principles</p> <p>(a) Justification</p> <p>(b) Optimisation</p> <p>(c) Dose limitation</p> <p>& Reference levels,</p>					<p>Sched 6 ("Information to be included in emergency plans"), Sched 7 Principles and purposes of emergency plans"),</p>	<p>This article will be transposed by forthcoming legislation in the EP&R workstream, to be notified at a later date.</p>
<p>98</p> <p>98.1</p>	<p>Emergency preparedness</p> <p>Member States shall ensure that emergency response plans are established in advance for the various types of emergencies identified by an assessment of potential emergency exposure situations.</p>	<p>N/A</p>	<p>N/A</p>	<p>N/A</p>	<p>Transport: CDG18, Sched 2, paras 2 and 3(1)</p>	<p>REPIR 2019, regs. 4 ("Hazard evaluation"), 5 ("Consequence report"), 6 ("Review of hazard evaluation and consequence assessment"), 7 ("Consequence report"), 10 ("Operator's emergency plan"), 11 ("Local authority's off-site emergency plan")</p>	<p>Emergency Preparedness & Response: This article will be transposed by forthcoming legislation in the EP&R workstream, to be notified at a later date.</p>

98.2	The emergency response plans shall include the elements defined in Section B of Annex XI.	N/A	N/A	N/A	N/A	Transport: CDG18, Sched 2, para 3(4)	REPIR 2019 , regs. 10 (“Operator’s emergency plan”), 11 (“Local authority’s off-site emergency plan”), Sched 6 (“Information to be included in emergency plans”)	Emergency Preparedness & Response: This article will be transposed by forthcoming legislation in the EP&R workstream, to be notified at a later date.
98.3	The emergency response plans shall also include provision for the transition from an emergency exposure situation to an existing exposure situation.	N/A	N/A	N/A	N/A	Transport: CDG18, Sched 2, paras 3(4)(i) and 12	REPIR 2019 , Sched 6 (“Information to be included in emergency plans”) paras 1(n) and 2(l), Sched. 7 (“Principles and purposes of emergency plans”), pt.1, para (1)(b)	Emergency Preparedness & Response: This article will be transposed by forthcoming legislation in the EP&R workstream, to be notified at a later date.
98.4	Member States shall ensure that emergency response plans are tested, reviewed and, as appropriate, revised at regular intervals, taking into account lessons learned from past emergency exposure situations and taking into account the results of the participation in emergency exercises at national and international level.	N/A	N/A	N/A	N/A	Transport: CDG18, Sched 2, para 5	REPIR 2019 , reg. 12 (“Reviewing and testing of emergency plans”)	Emergency Preparedness & Response: This article will be transposed by forthcoming legislation in the EP&R workstream, to be notified at a later date.

98.5	The emergency response plans shall, where appropriate, incorporate relevant elements of the emergency management system referred to in Article 97.	N/A	N/A	N/A	<p>Transport: CDG18, Sched 2, reg 3(4)</p>	<p>REPIR 2019, regs. 4 (“Hazard evaluation”), 5 (“Consequence report”), 6 (“Review of hazard evaluation and consequence assessment”), 7 (“Consequence report”), 10 (“Operator’s emergency plan”), 11 (“Local authority’s off-site emergency plan”)</p>	<p>Emergency Preparedness & Response: This article will be transposed by forthcoming legislation in the EP&R workstream, to be notified at a later date.</p>
<p>99 99.1</p>	<p>International cooperation Member States shall cooperate with other Member States and with third countries in addressing possible emergencies on its territory which may affect other Member States or third countries, in order to facilitate the organisation of radiological protection in those Member States or third countries.</p>	N/A	N/A	N/A	<p>The UK has a number of longstanding arrangements with EU member states, non-EU countries and international bodies that facilitate the sharing of information regarding the UK’s emergency response framework and communications procedures in the event of an emergency. For example, the UK is a signatory to the IAEA Convention on Early Notification of a Nuclear Accident. The UK also has bilateral agreements in place with several EU countries detailing mutual commitment to share information around nuclear emergency preparedness and response. The UK also participates in international exercises designed to test its emergency response capabilities in different scenarios.</p>	<p>The UK has a number of longstanding arrangements with EU member states, non-EU countries and international bodies that facilitate the sharing of information regarding the UK’s emergency response framework and communications procedures in the event of an emergency. For example, the UK is a signatory to the IAEA Convention on Early Notification of a Nuclear Accident. The UK also has bilateral agreements in place with several EU countries detailing mutual commitment to share information around nuclear emergency preparedness and response. The UK also participates in international exercises designed to test its emergency response capabilities in different scenarios.</p>	<p>N/A</p>

99.2	Each Member State shall, in the event of an emergency occurring on its territory or likely to have radiological consequences on its territory, promptly establish contact with all other Member States	N/A	N/A	N/A	<p>Convention on Early Notification of a Nuclear Accident. The UK also has bilateral agreements in place with several EU countries detailing mutual commitment to share information around nuclear emergency preparedness and response. The UK also participates in international exercises designed to test its emergency response capabilities in different scenarios.</p> <p>As above</p>	As above	N/A
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	<p>and with third countries which may be involved or are likely to be affected with a view to sharing the assessment of the exposure situation and coordinating protective measures and public information by using, as appropriate, bilateral or international information exchange and coordination systems. These coordination activities shall not prevent or delay any necessary actions to be taken on a national level.</p>	N/A	N/A	<p>The UK government is in the process of developing a Memorandum of Understanding with its regulators to ensure the prompt sharing of information. This is likely to be completed in the next couple of months and will be notified to the</p>	As above	As above	N/A
99.3	<p>Each Member State shall promptly share information and cooperate with other relevant Member States, relevant third countries and relevant international organisations regarding the loss, theft or discovery of high-activity sealed sources, other radioactive sources and radioactive material of concern and regarding related follow-up or investigations, without prejudice to relevant confidentiality requirements and relevant national legislation.</p>	N/A	N/A	<p>The UK government is in the process of developing a Memorandum of Understanding with its regulators to ensure the prompt sharing of information. This is likely to be completed in the next couple of months and will be notified to the</p>	As above	As above	N/A

99.4	Each Member State shall, where appropriate, cooperate with other Member States and with third countries in the transition from an emergency exposure situation to an existing exposure situation.	N/A	N/A	N/A	Commission accordingly.	As above	As above	N/A
100	Programmes on existing exposure situations							
100.1	Member States shall ensure that measures are taken, upon indication or evidence of exposures that cannot be disregarded from a radiation protection point of view, to identify and evaluate existing exposure situations taking into account the types of existing exposure situations listed in Annex XVII, and to determine the corresponding occupational and public exposures.	N/A	N/A	N/A	Building materials and commodities UK: IRMP18 reg. 6(2) Contaminated land England: Section 78B EPA90, as applied with modifications by reg. 6 RCL06. Radon UK: IRMP18 reg.10	N/A	N/A	N/A
100.2	Member States may decide, having regard to the general principle of justification, that an existing exposure	N/A	N/A	N/A	Contaminated land England: Section	N/A	N/A	N/A

	situation warrants no consideration of protective or remedial measures.	N/A	N/A	N/A	78E(4A) and (4B) EPA90 as applied with modifications by reg. 8(2) RCL06.	N/A	N/A	N/A	
100.3	Existing exposure situations which are of concern from a radiation protection point of view and for which legal responsibility can be assigned shall be subject to the relevant requirements for planned exposure situations and accordingly such exposure situations shall be required to be notified as specified in Article 25(2).	N/A	N/A	N/A	England & Wales: EPR16 regs. 8, 12 and 35 and Schedule 23, Part 2, Part 6	N/A	N/A	N/A	N/A
101	Establishment of strategies								
101.1	Member States shall arrange for the establishment of strategies to ensure the appropriate management of existing exposure situations commensurate with the risks and with the effectiveness of protective measures.	N/A	N/A	N/A	Building materials and commodities UK: IRMP18 reg. 6(3) and (4) Contaminated land England: Obligations met by Part 2A EPA90 as applied with modifications by RCL06 and RCL Statutory	N/A	N/A	N/A	N/A

				<p>Guidance.</p> <p>Radon UK: IRMP18 reg.10</p>				
101.2	Each strategy shall contain:	See below	See below	See below	See below	See below	See below	See below
101.2(a)	the objectives pursued;	N/A	N/A	N/A	N/A	N/A	N/A	N/A
				<p>Building materials and commodities UK: IRMP18 reg. 6(3) and (4) (exposure situations (b)(ii) building materials and (c) commodities in Annex XVII BSSD).</p> <p>Contaminated land England: RCL06 Obligations met by Part 2A of the EPA 1990 as applied with modifications by the 2006 Regulations and the RCL Statutory</p>				

				<p>Guidance. (Existing exposure situation (a) in Annex XVII BSSD – contaminated land.)</p> <p>Radon UK: IRMP18 reg.10</p>			
101.2(b)	appropriate reference levels, taking into account the reference levels laid down in Annex I.	N/A	N/A	<p>England: RCL06 Obligations met by Part 2A of the EPA 1990 as applied with modifications by the 2006 Regulations and the RCL Statutory Guidance. (Existing exposure situation (a) in Annex XVII BSSD contaminated land.)</p>	N/A	N/A	N/A

				<p>UK: IRMP18 reg. 6(3) and (4) (exposure situations (b)(ii) – building materials and (c) commodities in Annex XVII BSSD).</p> <p>Radon UK: IRMP18 reg.10</p>				
102	Implementation of strategies							
102.1	Member States shall assign responsibilities for the implementation of strategies for the management of existing exposure situations, and ensure appropriate coordination between relevant parties involved in the implementation of remedial and protective measures. Member States shall provide as appropriate for the involvement of stakeholders in decisions regarding the development and implementation of	N/A	N/A	<p>Contaminated land England: Sections 78B, 78E and 78N EPA90 as applied with modifications by regs. 6, 8 and 14 EPA90 and RCL Statutory Guidance</p> <p>Building materials and</p>	N/A	N/A	N/A	N/A

	strategies for managing exposure situations.			commodities UK: IRMP18 reg. 6(4) Radon UK: IRMP18 reg.10				
102.2	The form, scale and duration of all protective measures considered for implementation of a strategy shall be optimised.	N/A	N/A	Contaminated land England: RCL06 Section 78E of the EPA 1990 as applied with modifications by regulation 8. Building materials and commodities UK: IRMP18 reg. 6(4) (exposure situations (b)(ii) – building materials and (c) commodities in Annex XVII BSSD).	N/A	N/A	N/A	N/A

102.3	<p>The distribution of doses that has resulted from the implementation of a strategy shall be assessed. Further efforts shall be considered with the aim of optimising protection and reducing any exposures that are still above the reference level.</p>	N/A	N/A	<p>England: RCL06 Section 78E of the EPA 1990 as applied with modifications by regulation 8.</p> <p>Building materials and commodities UK: IRMP18 reg. 6(4) (exposure situations (b)(ii) – building materials and (c) commodities in Annex XVII BSSD).</p> <p>Radon UK: IRMP18 reg.10</p>	N/A	N/A	N/A	N/A
102.4	<p>Member States shall ensure that those responsible for the implementation of a strategy shall regularly:</p> <p>(a) evaluate the available remedial and protective measures for achieving the</p>	See below	See below	See below	See below	See below	See below	See below
		N/A	N/A	Contaminated land England:	N/A	N/A	N/A	N/A

	workplaces for any source of radon ingress, whether from soil, building materials or water. The action plan shall take into account the issues set out in Annex XVIII and be updated on a regular basis.											
103.2	Member States shall ensure that appropriate measures are in place to prevent radon ingress into new buildings. These measures may include specific requirements in national building codes.	N/A	N/A	UK: IRMP18 reg. 11	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
103.3	Member States shall identify areas where the radon concentration (as an annual average) in a significant number of buildings is expected to exceed the relevant national reference level.	N/A	N/A	UK: IRMP18 reg. 12	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
104	Inspections											
104.1	Member States shall establish a system or systems of inspection to enforce the provisions adopted pursuant to this Directive and to initiate surveillance and corrective action where necessary.	GB: HSWA74 s.18-25 Energy Act 2013, s82-83 NI: HSWO78 Articles 20-27 Energy Act 2013, s82-83	GB: IR(ME)R 2017 reg. 2 (definition of “relevant enforcing authority”); reg. 18 NI: IR(ME)R (NI) 2018 reg. 2(definition of	Radioactive substances regulation England & Wales: EPR16 reg. 34(2) and Schedule 23 – Part 5 (paras 2 and 6) Radioactive contaminated	Transport: EA13, sections 67(e), 73,78 and 82	EA13, sections 67(a) (b), 78 and 82 HSA74, sections 18-25	Wales: AF(BSS)(Wales)R18 reg. 2 and 6 NI: AF(BSS)(NI)R 18 reg. 2 and 6 Scotland: AF(BSS)(Scotland)R18 regs. 2 and 7;					

			<p>“relevant enforcing authority”); reg. 18</p> <p>Such inspection regimes are already in place by the enforcing authorities</p>	<p>land England: RCL06 Section 78A(7) of the EPA 1990 as applied with modifications by regulation 5.</p>			<p>UK: JOPIIRR04 reg. 23A</p>
<p>104.2</p>	<p>Member States shall ensure that the competent authority establishes an inspection programme taking into account the potential magnitude and nature of the hazard associated with practices, a general assessment of radiation protection issues in the practices, and the state of compliance with the provisions adopted pursuant to this Directive.</p>	<p>GB: HSWA74 s.18-25 Energy Act 2013, s82-83</p> <p>NI: HSWO78 Articles 20-27 Energy Act 2013, s82-83</p>	<p>GB: IR(ME)R 2017 reg. 2 (definition of “relevant enforcing authority”); reg. 18</p> <p>NI: IR(ME)R (NI) 2018 reg. 2 (definition of “relevant enforcing authority”); reg. 18</p> <p>Such inspection regimes are already in place by the enforcing authorities</p>	<p>England & Wales: EPR16 Schedule 23 – Part 4 (para 5)</p>	<p>Transport: EA13, sections 67(e), 73,78 and 82</p>	<p>EA13, sections 67(a) (b), 78 and 82 HSWA74, sections 18-25</p>	<p>UK: JOPIIRR04 reg. 23A(1)</p>

104.3	<p>Member States shall ensure that the findings from each inspection are recorded and communicated to the undertaking concerned. If the findings are related to an outside worker or workers, where appropriate, the findings shall also be communicated to the employer.</p>	<p>GB: HSWA74 s. 20, 28(8) NI: HSWO78 Articles 22, 30(8)</p>	<p>GB: IR(ME)R 2017 reg. 2 (definition of “relevant enforcing authority”); reg. 18 NI: IR(ME)R (NI) 2018 reg. 2(definition of “relevant enforcing authority”); reg. 18 Such inspection regimes are already in place by the enforcing authorities</p>	<p>England & Wales: EPR16 Schedule 23 – Part 4 (para 6)</p>	<p>Transport: EA13, sections 67(e), 73,78 and 82</p>	<p>EA13, sections 67(a) (b), 78 and 82 HSWA74, sections 18-25</p>	<p>UK: JOIIRR04 reg. 23A(2)</p>
104.4	<p>Member States shall ensure that outlines of the inspection programmes and the main findings from their implementation are available to the public.</p>	<p>GB: HSWA74 section 13(1) NI: HSWO78 Article 13(1)</p>	<p>GB: IR(ME)R 2017 reg. 2 (definition of “relevant enforcing authority”); reg. 18</p>	<p>England & Wales: EPR16 reg. 46 and Schedule 27 (para 1)</p>	<p>Transport: EA13, sections 67(e), 73,78 and 82</p>	<p>EA13, sections 67(a) (b), 78 and 82 HSWA74, sections 18-25</p>	<p>England, Wales, Northern Ireland: FOIA 2000 Scotland: FOISA 2002</p>

104.5	Member States shall ensure that mechanisms are in place for the timely dissemination to relevant parties, including manufacturers and suppliers of radiation sources and, where appropriate, international organisations, of protection and safety information concerning significant lessons learned from inspections and from reported incidents and accidents and related findings.	<p>GB: HSWA74 section 13(1), 28(8)</p> <p>NI: HSWO78 Article 13(1), 30(8)</p>	<p>GB: IR(ME)R 2017 reg. 2 (definition of “relevant enforcing authority”); reg. 9; reg. 18</p>	N/A	<p>Transport: EA13, sections 67(e), 73,78 and 82</p>	<p>EA13, sections 67(a) (b), 78 and 82 HSWA74, sections 18-25</p>	N/A
105	Enforcement						
105	Member States shall ensure that the competent authority has the power to require any individual or legal person to take action to remedy deficiencies and prevent their recurrence or to withdraw, where appropriate, authorisation when the results of a regulatory inspection or another regulatory assessment indicate that the exposure situation is not in compliance with the provisions adopted pursuant to this Directive.	<p>GB: HSWA74 s.21 – 22</p> <p>NI: HSWO78 Articles 23 - 24</p>	<p>GB: IR(ME)R 2017 reg. 2 (definition of “relevant enforcing authority”); reg. 18</p> <p>NI: IR(ME)R (NI) 2018 reg. 2; reg. 4(2)(c); reg. 18</p>	<p>England & Wales: EPR16 regs. 36 - 44</p>	<p>Transport: EA13, sections 67(e), 73,78 and 82</p>	<p>EA13, sections 67(a) (b), 78 and 82 HSWA74, sections 21-22</p>	<p>UK: JOIIRR04 regs. 21E(4), (5), (6) and 22 and 24</p> <p>Wales: AF(BSS)(Wales)R18 regs. 2 and 6</p> <p>NI: AF(BSS)(NI)R 18 regs. 2 and 6</p> <p>Scotland: AF(BSS)(Scotl</p>

	repealed with effect from 6 February 2018. References to the repealed Directives shall be construed as references to this Directive and shall be read in accordance with the correlation table in Annex XIX.								
108	Entry into force	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
108	The Directive shall enter into force on the twentieth day following that of its publication in the Official Journal of the European Union.								
109	Addressees	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
109	This Directive is addressed to the Member States. Done at Brussels, 5 December 2013. For the Council The President R. SINKEVIČIUSEN								