SCHEDULE 7

Quantities and concentrations of radionuclides
Regulations 2(4), 6(2), 31(1), 31(3)and Schedule 1

PART 1

Table of artificial radionuclides and naturally occurring radionuclides (which are processed for their radioactive, fissile or fertile properties)

1	*2*	*3*	*4*	*5*	*6*
Radionuclide name, symbol, isotope	***Concentration for: Notification (any amount of radioactive material); Registration (amounts of radioactive material that exceed 1,000kg)***	***Quantity for Notification***	***Concentration for Registration (amounts of radioactive material that do not exceed 1,000kg)***	***Quantity for notification of occurrences***	***Quantity for notification of occurrences***
	Regulation 5(1) and Schedule 1, paragraph 1(a); regulation 6(2)(f)	***Regulation 5(1) and Schedule 1, paragraph 1(b)***	***Regulation 6(2)(e)***	***Regulation 31(1)***	***Regulation 31(3)***
	(Bq/g)	***(Bq)***	***(Bq/g)***	***(Bq)***	***(Bq)***
Hydrogen					
H-3 (tritiated compounds)	**10^2**	**10^9**	**10^6**	**10^{12}**	**10^{10}**
Beryllium					
Be-7	**10**	**10^7**	**10^3**	**10^{12}**	**10^8**
Carbon					
C-11	**0.01**	**10^6**	**10**	**10^{13}**	**10^7**
C-11 (monoxide)	**0.01**	**10^9**	**10**	**10^{12}**	**10^{10}**
C-11 (dioxide)	**0.01**	**10^9**	**10**	**10^{12}**	**10^{10}**
C-14	**1**	**10^7**	**10^4**	**10^{11}**	**10^8**
Oxygen					
O-15	**0.01**	**10^9**	**10^2**	**10^{10}**	
Fluorine					

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	Regulation 5(1) and Schedule 1, paragraph 1(a); regulation 6(2)(f)	***Regulation 5(1) and Schedule 1, paragraph 1(b)***	***Regulation 6(2)(e)***	***Regulation 31(1)***	***Regulation 31(3)***
	(Bq/g)	***(Bq)***	***(Bq/g)***	***(Bq)***	***(Bq)***
F-18	**10**	10^6	**10**	10^{13}	10^7
Sodium					
Na-22	**0.1**	10^6	**10**	10^{10}	10^7
Na-24	**0.1**	10^5	**10**	10^{11}	10^6
Silicon					
Si-31	10^3	10^6	10^3	10^{13}	10^7
Phosphorus					
P-32	10^3	10^5	10^3	10^{10}	10^6
P-33	10^3	10^8	10^5	10^{11}	10^9
Sulphur					
S-35	10^2	10^8	10^5	10^{11}	10^9
Chlorine					
Cl-36	**1**	10^6	10^4	10^{10}	10^7
Cl-38	**10**	10^5	**10**	10^{13}	10^6
Argon					
Ar-37	**0.01**	10^8	10^6	10^{13}	
Ar-41	**0.01**	10^9	10^2	10^9	
Potassium					
K-40(1)	**1**	10^6	10^2	10^{10}	10^7
K-42	10^2	10^6	10^2	10^{12}	10^7
K-43	**10**	10^6	**10**	10^{11}	10^7
Calcium					
Ca-45	10^2	10^7	10^4	10^{10}	10^8

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	Regulation 5(1) and Schedule 1, paragraph 1(a); regulation 6(2)(f)	***Regulation 5(1) and Schedule 1, paragraph 1(b)***	***Regulation 6(2)(e)***	***Regulation 31(1)***	***Regulation 31(3)***
	(Bq/g)	***(Bq)***	***(Bq/g)***	***(Bq)***	***(Bq)***
Ca-47	**10**	10^6	**10**	10^{11}	10^7
Scandium					
Sc-46	**0.1**	10^6	**10**	10^{10}	10^7
Sc-47	10^2	10^6	10^2	10^{11}	10^7
Sc-48	**1**	10^5	**10**	10^{11}	10^6
Vanadium					
V-48	**1**	10^5	**10**	10^{10}	10^6
Chromium					
Cr-51	10^2	10^7	10^3	10^{12}	10^8
Manganese					
Mn-51	**10**	10^5	**10**	10^{13}	10^6
Mn-52	**1**	10^5	**10**	10^{10}	10^6
Mn-52m	**10**	10^5	**10**	10^{13}	10^6
Mn-53	10^2	10^9	10^4	10^{12}	10^{10}
Mn-54	**0.1**	10^6	**10**	10^{11}	10^7
Mn-56	**10**	10^5	**10**	10^{12}	10^6
Iron					
Fe-52+	**10**	10^6	**10**	10^{12}	10^7
Fe-55	10^3	10^6	10^4	10^{11}	10^7
Fe-59	**1**	10^6	**10**	10^{10}	10^7
Cobalt					
Co-55	**10**	10^6	**10**	10^{11}	10^7
Co-56	**0.1**	10^5	**10**	10^{10}	10^6

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	Regulation 5(1) and Schedule 1, paragraph 1(a); regulation 6(2)(f)	***Regulation 5(1) and Schedule 1, paragraph 1(b)***	***Regulation 6(2)(e)***	***Regulation 31(1)***	***Regulation 31(3)***
	(Bq/g)	***(Bq)***	***(Bq/g)***	***(Bq)***	***(Bq)***
Co-57	**1**	**10^6**	**10^2**	**10^{11}**	**10^7**
Co-58	**1**	**10^6**	**10**	**10^{10}**	**10^7**
Co-58m	**10^4**	**10^7**	**10^4**	**10^{13}**	**10^8**
Co-60	**0.1**	**10^5**	**10**	**10^{10}**	**10^6**
Co-60m	**10^3**	**10^6**	**10^3**	**10^{16}**	**10^7**
Co-61	**10^2**	**10^6**	**10^2**	**10^{13}**	**10^7**
Co-62m	**10**	**10^5**	**10**	**10^{13}**	**10^6**
Nickel					
Ni-59	**10^2**	**10^8**	**10^4**	**10^{11}**	**10^9**
Ni-63	**10^2**	**10^8**	**10^5**	**10^{11}**	**10^9**
Ni-65	**10**	**10^6**	**10**	**10^{13}**	**10^7**
Copper					
Cu-64	**10^2**	**10^6**	**10^2**	**10^{12}**	**10^7**
Zinc					
Zn-65	**0.1**	**10^6**	**10**	**10^{10}**	**10^7**
Zn-69	**10^3**	**10^6**	**10^4**	**10^{14}**	**10^7**
Zn-69m+	**10**	**10^6**	**10^2**	**10^{12}**	**10^7**
Gallium					
Ga-68	0.01	10^5	10	10^{13}	10^6
Ga-72	10	10^5	10	10^{11}	10^6
Germanium					
Ge-68+	0.01	10^5	10	10^{10}	10^6

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	(Bq/g)	***(Bq)***	***(Bq/g)***	***(Bq)***	***(Bq)***
Ge-71	10^4	10^8	10^4	10^{13}	10^9
Arsenic					
As-73	10^3	10^7	10^3	10^{11}	10^8
As-74	10	10^6	10	10^{11}	10^7
As-76	10	10^5	10^2	10^{11}	10^6
As-77	10^3	10^6	10^3	10^{12}	10^7
Selenium					
Se-75	**1**	**10^6**	**10^2**	**10^{11}**	**10^7**
Bromine					
Br-82	**1**	**10^6**	**10**	**10^{11}**	**10^7**
Krypton					
Kr-74	**0.01**	**10^9**	**10^2**	**10^9**	
Kr-76	**0.01**	**10^9**	**10^2**	**10^{10}**	
Kr-77	**0.01**	**10^9**	**10^2**	**10^9**	
Kr-79	**0.01**	**10^5**	**10^3**	**10^{10}**	
Kr-81	**0.01**	**10^7**	**10^4**	**10^{11}**	
Kr-83m	**0.01**	**10^{12}**	**10^5**	**10^{12}**	
Kr-85	**0.01**	**10^4**	**10^5**	**10^{12}**	
Kr-85m	**0.01**	**10^{10}**	**10^3**	**10^{10}**	
Kr-87	**0.01**	**10^9**	**10^2**	**10^9**	

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	(Bq/g)	***(Bq)***	***(Bq/g)***	***(Bq)***	***(Bq)***
Kr-88	**0.01**	**10^9**	**10^2**	**10^9**	
Rubidium					
Rb-86	10^2	10^5	10^2	10^{11}	10^6
Strontium					
Sr-85	**1**	**10^6**	**10^2**	**10^{11}**	**10^7**
Sr-85m	**10^2**	**10^7**	**10^2**	**10^{13}**	**10^8**
Sr-87m	**10^2**	**10^6**	**10^2**	**10^{13}**	**10^7**
Sr-89	**10^3**	**10^6**	**10^3**	**10^{10}**	**10^7**
Sr-90+	**1**	**10^4**	**10^2**	**10^9**	**10^5**
Sr-91+	**10**	**10^5**	**10**	**10^{12}**	**10^6**
Sr-92	**10**	**10^6**	**10**	**10^{12}**	**10^7**
Yttrium					
Y-90	**10^3**	**10^5**	**10^3**	**10^{11}**	**10^6**
Y-91	**10^2**	**10^6**	**10^3**	**10^{10}**	**10^7**
Y-91m	**10^2**	**10^6**	**10^2**	**10^{13}**	**10^7**
Y-92	**10^2**	**10^5**	**10^2**	**10^{12}**	**10^6**
Y-93	**10^2**	**10^5**	**10^2**	**10^{12}**	**10^6**
Zirconium					
Zr-93+	**10**	**10^7**	**10^3**	**10^9**	**10^8**
Zr-95+	**1**	**10^6**	**10**	**10^{10}**	**10^7**
Zr-97+	**10**	**10^5**	**10**	**10^{11}**	**10^6**
Niobium					
Nb-93m	**10**	**10^7**	**10^4**	**10^{11}**	**10^8**

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	(Bq/g)	***(Bq)***	***(Bq/g)***	***(Bq)***	***(Bq)***
Nb-94	**0.1**	10^6	**10**	10^9	10^7
Nb-95	**1**	10^6	**10**	10^{11}	10^7
Nb-97+	**10**	10^6	**10**	10^{13}	10^7
Nb-98	**10**	10^5	**10**	10^{13}	10^6
Molybdenum					
Mo-90	**10**	10^6	**10**	10^{12}	10^7
Mo-93	**10**	10^8	10^3	10^{11}	10^9
Mo-99+	**10**	10^6	10^2	10^{11}	10^7
Mo-101+	**10**	10^6	**10**	10^{13}	10^7
Technetium					
Tc-96	**1**	10^6	**10**	10^{11}	10^7
Tc-96m	10^3	10^7	10^3	10^{14}	10^8
Tc-97	**10**	10^8	10^3	10^{12}	10^9
Tc-97m	10^2	10^7	10^3	10^{10}	10^8
Tc-99	**1**	10^7	10^4	10^{10}	10^8
Tc-99m	10^2	10^7	10^2	10^{13}	10^8
Ruthenium					
Ru-97	**10**	10^7	10^2	10^{12}	10^8
Ru-103+	**1**	10^6	10^2	10^{10}	10^7
Ru-105+	**10**	10^6	**10**	10^{12}	10^7
Ru-106+	**0.1**	10^5	10^2	10^9	10^6
Rhodium					
Rh-103m	10^4	10^8	10^4	10^{15}	10^9

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	(Bq/g)	***(Bq)***	***(Bq/g)***	***(Bq)***	***(Bq)***
Rh-105	**10^2**	**10^7**	**10^2**	**10^{12}**	**10^8**
Palladium					
Pd-103+	**10^3**	**10^8**	**10^3**	**10^{11}**	**10^9**
Pd-109+	**10^2**	**10^6**	**10^3**	**10^{12}**	**10^7**
Silver					
Ag-105	**1**	**10^6**	**10^2**	**10^{11}**	**10^7**
Ag-108m+	**0.1**	**10^6**	**10**	**10^{10}**	**10^7**
Ag-110m+	**0.1**	**10^6**	**10**	**10^{10}**	**10^7**
Ag-111	**10^2**	**10^6**	**10^3**	**10^{11}**	**10^7**
Cadmium					
Cd-109+	**1**	**10^6**	**10^4**	**10^{10}**	**10^7**
Cd-115+	**10**	**10^6**	**10^2**	**10^{11}**	**10^7**
Cd-115m+	**10^2**	**10^6**	**10^3**	**10^{10}**	**10^7**
Indium					
In-111	**10**	**10^6**	**10^2**	**10^{11}**	**10^7**
In-113m	**10^2**	**10^6**	**10^2**	**10^{13}**	**10^7**
In-114m+	**10**	**10^6**	**10^2**	**10^{10}**	**10^7**
In-115m	**10^2**	**10^6**	**10^2**	**10^{13}**	**10^7**
Tin					
Sn-113+	**1**	**10^7**	**10^3**	**10^{11}**	**10^8**
Sn-125	**10**	**10^5**	**10^2**	**10^{10}**	**10^6**
Antimony					
Sb-122	**10**	**10^4**	**10^2**	**10^{11}**	**10^5**

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	(Bq/g)	***(Bq)***	***(Bq/g)***	***(Bq)***	***(Bq)***
Sb-124	**1**	10^6	**10**	10^{10}	10^7
Sb-125+	**0.1**	10^6	10^2	10^{10}	10^7
Tellurium					
Te-123m	**1**	10^7	10^2	10^{10}	10^8
Te-125m	10^3	10^7	10^3	10^{10}	10^8
Te-127	10^3	10^6	10^3	10^{12}	10^7
Te-127m+	**10**	10^7	10^3	10^{10}	10^8
Te-129	10^2	10^6	10^2	10^{14}	10^7
Te-129m+	**10**	10^6	10^3	10^{10}	10^7
Te-131	10^2	10^5	10^2	10^{14}	10^6
Te-131m+	**10**	10^6	**10**	10^{11}	10^7
Te-132+	**1**	10^7	10^2	10^{11}	10^8
Te-133	**10**	10^5	**10**	10^{14}	10^6
Te-133m	**10**	10^5	**10**	10^{13}	10^6
Te-134	**10**	10^6	**10**	10^{13}	10^7
Iodine					
I-123	10^2	10^7	10^2	10^{12}	10^8
I-125	10^2	10^6	10^3	10^{10}	10^7
I-126	**10**	10^6	10^2	10^{10}	10^7
I-129	**0.01**	10^5	10^2	10^9	10^6
I-130	**10**	10^6	**10**	10^{11}	10^7
I-131	**10**	10^6	10^2	10^{10}	10^7
I-132	**10**	10^5	**10**	10^{12}	10^6

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	(Bq/g)	***(Bq)***	***(Bq/g)***	***(Bq)***	***(Bq)***
I-133	**10**	10^6	**10**	10^{11}	10^7
I-134	**10**	10^5	**10**	10^{13}	10^6
I-135	**10**	10^6	**10**	10^{12}	10^7
Xenon					
Xe-131m	**0.01**	10^4	10^4	10^{11}	
Xe-133	**0.01**	10^4	10^3	10^{11}	
Xe-135	**0.01**	10^{10}	10^3	10^{10}	
Caesium					
Cs-129	**10**	10^5	10^2	10^{12}	10^6
Cs-131	10^3	10^6	10^3	10^{12}	10^7
Cs-132	**10**	10^5	**10**	10^{11}	10^6
Cs-134	**0.1**	10^4	**10**	10^{10}	10^5
Cs-134m	10^3	10^5	10^3	10^{14}	10^6
Cs-135	10^2	10^7	10^4	10^{11}	10^8
Cs-136	**1**	10^5	**10**	10^{10}	10^6
Cs-137+	**0.1**	10^4	**10**	10^{10}	10^5
Cs-138	**10**	10^4	**10**	10^{13}	10^5
Barium					
Ba-131	**10**	10^6	10^2	10^{11}	10^7
Ba-140+	**1**	10^5	**10**	10^{11}	10^6
Lanthanum					
La-140	**1**	10^5	**10**	10^{11}	10^6
Cerium					

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	(Bq/g)	***(Bq)***	***(Bq/g)***	***(Bq)***	***(Bq)***
Ce-139	**1**	**10^6**	**10^2**	**10^{11}**	**10^7**
Ce-141	**10^2**	**10^7**	**10^2**	**10^{10}**	**10^8**
Ce-143	**10**	**10^6**	**10^2**	**10^{11}**	**10^7**
Ce-144+	**10**	**10^5**	**10^2**	**10^9**	**10^6**
Praseodymium					
Pr-142	**10^2**	**10^5**	**10^2**	**10^{12}**	**10^6**
Pr-143	**10^3**	**10^6**	**10^4**	**10^{11}**	**10^7**
Neodymium					
Nd-147	**10^2**	**10^6**	**10^2**	**10^{11}**	**10^7**
Nd-149	**10^2**	**10^6**	**10^2**	**10^{13}**	**10^7**
Promethium					
Pm-147	**10^3**	**10^7**	**10^4**	**10^{10}**	**10^8**
Pm-149	**10^3**	**10^6**	**10^3**	**10^{11}**	**10^7**
Samarium					
Sm-151	**10^3**	**10^8**	**10^4**	**10^{10}**	**10^9**
Sm-153	**10^2**	**10^6**	**10^2**	**10^{11}**	**10^7**
Europium					
Eu-152	**0.1**	**10^6**	**10**	**10^9**	**10^7**
Eu-152m	**10^2**	**10^6**	**10^2**	**10^{12}**	**10^7**
Eu-154	**0.1**	**10^6**	**10**	**10^9**	**10^7**
Eu-155	**1**	**10^7**	**10^2**	**10^{10}**	**10^8**
Gadolinium					
Gd-153	**10**	**10^7**	**10^2**	**10^{10}**	**10^8**

(1) Potassium salts in quantities less than 1,000kg are exempt.

1	*2*	*3*	*4*	*5*	*6*
Radionuclide name, symbol, isotope	***Concentration for: Notification (any amount of radioactive material); Registration (amounts of radioactive material that exceed 1,000kg)***	***Quantity for Notification***	***Concentration for Registration (amounts of radioactive material that do not exceed 1,000kg)***	***Quantity for notification of occurrences***	***Quantity for notification of occurrences***
	Regulation 5(1) and Schedule 1, paragraph 1(a); regulation 6(2)(f)	***Regulation 5(1) and Schedule 1, paragraph 1(b)***	***Regulation 6(2)(e)***	***Regulation 31(1)***	***Regulation 31(3)***
	(Bq/g)	***(Bq)***	***(Bq/g)***	***(Bq)***	***(Bq)***
Gd-159	10^2	10^6	10^3	10^{12}	10^7
Terbium					
Tb-160	1	10^6	1	10^{10}	10^7
Dysprosium					
Dy-165	10^3	10^6	10^3	10^{13}	10^7
Dy-166	10^2	10^6	10^3	10^{11}	10^7
Holmium					
Ho-166	10^2	10^5	10^3	10^{11}	10^6
Erbium					
Er-169	10^3	10^7	10^4	10^{11}	10^8
Er-171	10^2	10^6	10^2	10^{12}	10^7
Thulium					
Tm-170	10^2	10^6	10^3	10^{10}	10^7
Tm-171	10^3	10^8	10^4	10^{11}	10^9
Ytterbium					
Yb-175	10^2	10^7	10^3	10^{11}	10^8
Lutetium					
Lu-177	10^2	10^7	10^3	10^{11}	10^8
Hafnium					
Hf-181	1	10^6	10	10^{10}	10^7
Tantalum					
Ta-182	0.1	10^4	10	10^{10}	10^5
Tungsten					
W-181	10	10^7	10^3	10^{12}	10^8

(1) Potassium salts in quantities less than 1,000kg are exempt.

1	*2*	*3*	*4*	*5*	*6*
Radionuclide name, symbol, isotope	***Concentration for: Notification (any amount of radioactive material); Registration (amounts of radioactive material that exceed 1,000kg)***	***Quantity for Notification***	***Concentration for Registration (amounts of radioactive material that do not exceed 1,000kg)***	***Quantity for notification of occurrences***	***Quantity for notification of occurrences***
	Regulation 5(1) and Schedule 1, paragraph 1(a); regulation 6(2)(f)	***Regulation 5(1) and Schedule 1, paragraph 1(b)***	***Regulation 6(2)(e)***	***Regulation 31(1)***	***Regulation 31(3)***
	(Bq/g)	***(Bq)***	***(Bq/g)***	***(Bq)***	***(Bq)***
W-185	10^3	10^7	10^4	10^{11}	10^8
W-187	10	10^6	10^2	10^{12}	10^7
Rhenium					
Re-186	10^3	10^6	10^3	10^{11}	10^7
Re-188	10^2	10^5	10^2	10^{12}	10^6
Osmium					
Os-185	1	10^6	10	10^{11}	10^7
Os-191	10^2	10^7	10^2	10^{11}	10^8
Os-191m	10^3	10^7	10^3	10^{12}	10^8
Os-193	10^2	10^6	10^2	10^{11}	10^7
Iridium					
Ir-190	1	10^6	10	10^{10}	10^7
Ir-192	1	10^4	10	10^{10}	10^5
Ir-194	10^2	10^5	10^2	10^{11}	10^6
Platinum					
Pt-191	10	10^6	10^2	10^{11}	10^7
Pt-193m	10^3	10^7	10^3	10^{12}	10^8
Pt-197	10	10^6	10^3	10^{12}	10^7
Pt-197m	10^2	10^6	10^2	10^{14}	10^7
Gold					
Au-198	10	10^6	10^2	10^{11}	10^7
Au-199	10^2	10^6	10^2	10^{11}	10^7
Mercury					

(1) Potassium salts in quantities less than 1,000kg are exempt.

1	*2*	*3*	*4*	*5*	*6*
Radionuclide name, symbol, isotope	***Concentration for: Notification (any amount of radioactive material); Registration (amounts of radioactive material that exceed 1,000kg)***	***Quantity for Notification***	***Concentration for Registration (amounts of radioactive material that do not exceed 1,000kg)***	***Quantity for notification of occurrences***	***Quantity for notification of occurrences***
	Regulation 5(1) and Schedule 1, paragraph 1(a); regulation 6(2)(f)	***Regulation 5(1) and Schedule 1, paragraph 1(b)***	***Regulation 6(2)(e)***	***Regulation 31(1)***	***Regulation 31(3)***
	(Bq/g)	***(Bq)***	***(Bq/g)***	***(Bq)***	***(Bq)***
Hg-197	**10^2**	**10^7**	**10^2**	**10^{12}**	**10^8**
Hg-197m	**10^2**	**10^6**	**10^2**	**10^{12}**	**10^7**
Hg-203	**10**	**10^5**	**10^2**	**10^{11}**	**10^6**
Thallium					
Tl-200	**10**	**10^6**	**10**	**10^{11}**	**10^7**
Tl-201	**10^2**	**10^6**	**10^2**	**10^{12}**	**10^7**
Tl-202	**10**	**10^6**	**10^2**	**10^{11}**	**10^7**
Tl-204	**1**	**10^4**	**10^4**	**10^{11}**	**10^5**
Lead					
Pb-203	**10**	**10^6**	**10^2**	**10^{12}**	**10^7**
Pb-210+	**0.01**	**10^4**	**10**	**10^8**	**10^5**
Pb-212+	**1**	**10^5**	**10**	**10^{10}**	**10^6**
Bismuth					
Bi-206	**1**	**10^5**	**10**	**10^{10}**	**10^6**
Bi-207	**0.1**	**10^6**	**10**	**10^{10}**	**10^7**
Bi-210	**10**	**10^6**	**10^3**	**10^9**	**10^7**
Bi-212+	**1**	**10^5**	**10**	**10^{11}**	**10^6**
Polonium					
Po-203	**10**	**10^6**	**10**	**10^{13}**	**10^7**
Po-205	**10**	**10^6**	**10**	**10^{12}**	**10^7**
Po-207	**10**	**10^6**	**10**	**10^{12}**	**10^7**
Po-210	**0.01**	**10^4**	**10**	**10^7**	**10^5**
Astatine					

(1) Potassium salts in quantities less than 1,000kg are exempt.

1	*2*	*3*	*4*	*5*	*6*
Radionuclide name, symbol, isotope	***Concentration for: Notification (any amount of radioactive material); Registration (amounts of radioactive material that exceed 1,000kg)***	***Quantity for Notification***	***Concentration for Registration (amounts of radioactive material that do not exceed 1,000kg)***	***Quantity for notification of occurrences***	***Quantity for notification of occurrences***
	Regulation 5(1) and Schedule 1, paragraph 1(a); regulation 6(2)(f)	***Regulation 5(1) and Schedule 1, paragraph 1(b)***	***Regulation 6(2)(e)***	***Regulation 31(1)***	***Regulation 31(3)***
	(Bq/g)	***(Bq)***	***(Bq/g)***	***(Bq)***	***(Bq)***
At-211	**10^3**	**10^7**	**10^3**	**10^{10}**	**10^8**
Radon					
Rn-220+	**0.01**	**10^7**	**10^4**	**10^8**	**10^8**
Rn-222+	**0.01**	**10^8**	**10**	**10^9**	**10^9**
Radium					
Ra-223+	**1**	**10^5**	**10^2**	**10^7**	**10^6**
Ra-224+	**1**	**10^5**	**10**	**10^8**	**10^6**
Ra-225	**10**	**10^5**	**10^2**	**10^7**	**10^6**
Ra-226+	**0.01**	**10^4**	**10**	**10^7**	**10^5**
Ra-227	**10^2**	**10^6**	**10^2**	**10^{13}**	**10^7**
Ra-228+	**0.01**	**10^5**	**10**	**10^8**	**10^6**
Actinium					
Ac-228	**1**	**10^6**	**10**	**10^{10}**	**10^7**
Thorium					
Th-226+	**10^3**	**10^7**	**10^3**	**10^{11}**	**10^8**
Th-227	**1**	**10^4**	**10**	**10^7**	**10^5**
Th-228+	**0.1**	**10^4**	**1**	**10^6**	**10^5**
Th-229+	**0.1**	**10^3**	**1**	**10^6**	**10^4**
Th-230	**0.1**	**10^4**	**1**	**10^6**	**10^5**
Th-231	**10^2**	**10^7**	**10^3**	**10^{12}**	**10^8**
Th-232	**0.01**	**10^4**	**10**	**10^6**	**10^5**
Th-234+	**10**	**10^5**	**10^3**	**10^{10}**	**10^6**
Protactinium					

(1) Potassium salts in quantities less than 1,000kg are exempt.

1	*2*	*3*	*4*	*5*	*6*
Radionuclide name, symbol, isotope	***Concentration for: Notification (any amount of radioactive material); Registration (amounts of radioactive material that exceed 1,000kg)***	***Quantity for Notification***	***Concentration for Registration (amounts of radioactive material that do not exceed 1,000kg)***	***Quantity for notification of occurrences***	***Quantity for notification of occurrences***
	Regulation 5(1) and Schedule 1, paragraph 1(a); regulation 6(2)(f)	***Regulation 5(1) and Schedule 1, paragraph 1(b)***	***Regulation 6(2)(e)***	***Regulation 31(1)***	***Regulation 31(3)***
	(Bq/g)	***(Bq)***	***(Bq/g)***	***(Bq)***	***(Bq)***
Pa-230	**10**	10^6	**10**	10^8	10^7
Pa-231	**0.01**	10^3	**1**	10^6	10^4
Pa-233	**10**	10^7	10^2	10^{10}	10^8
Uranium					
U-230+	**10**	10^5	**10**	10^7	10^6
U-231	10^2	10^7	10^2	10^{11}	10^8
U-232+	**0.1**	10^3	**1**	10^6	10^4
U-233	**1**	10^4	**10**	10^7	10^5
U-234	**1**	10^4	**10**	10^7	10^5
U-235+	**1**	10^4	**10**	10^7	10^5
U-236	**10**	10^4	**10**	10^7	10^5
U-237	10^2	10^6	10^2	10^{11}	10^7
U-238+	**1**	10^4	**10**	10^7	10^5
U-239	10^2	10^6	10^2	10^{14}	10^7
U-240	**0.01**	10^7	10^3	10^{12}	10^8
U-240+	10^2	10^6	**10**	10^{11}	10^7
Neptunium					
Np-237+	**1**	10^3	**1**	10^7	10^4
Np-239	10^2	10^7	10^2	10^{11}	10^8
Np-240	**10**	10^6	**10**	10^{13}	10^7
Plutonium					
Pu-234	10^2	10^7	10^2	10^{10}	10^8
Pu-235	10^2	10^7	10^2	10^{14}	10^8

(1) Potassium salts in quantities less than 1,000kg are exempt.

1	*2*	*3*	*4*	*5*	*6*
Radionuclide name, symbol, isotope	***Concentration for: Notification (any amount of radioactive material); Registration (amounts of radioactive material that exceed 1,000kg)***	***Quantity for Notification***	***Concentration for Registration (amounts of radioactive material that do not exceed 1,000kg)***	***Quantity for notification of occurrences***	***Quantity for notification of occurrences***
	Regulation 5(1) and Schedule 1, paragraph 1(a); regulation 6(2)(f)	***Regulation 5(1) and Schedule 1, paragraph 1(b)***	***Regulation 6(2)(e)***	***Regulation 31(1)***	***Regulation 31(3)***
	(Bq/g)	***(Bq)***	***(Bq/g)***	***(Bq)***	***(Bq)***
Pu-236	**1**	**10^4**	**10**	**10^7**	**10^5**
Pu-237	**10^2**	**10^7**	**10^3**	**10^{11}**	**10^8**
Pu-238	**0.1**	**10^4**	**1**	**10^6**	**10^5**
Pu-239	**0.1**	**10^4**	**1**	**10^6**	**10^5**
Pu-240	**0.1**	**10^3**	**1**	**10^6**	**10^4**
Pu-241	**10**	**10^5**	**10^2**	**10^8**	**10^6**
Pu-242	**0.1**	**10^4**	**1**	**10^6**	**10^5**
Pu-243	**10^3**	**10^7**	**10^3**	**10^{13}**	**10^8**
Pu-244+	**0.1**	**10^4**	**1**	**10^6**	**10^5**
Americium					
Am-241	**0.1**	**10^4**	**1**	**10^6**	**10^5**
Am-242	**10^3**	**10^6**	**10^3**	**10^{10}**	**10^7**
Am-242m+	**0.1**	**10^4**	**1**	**10^6**	**10^5**
Am-243+	**0.1**	**10^3**	**1**	**10^6**	**10^4**
Curium					
Cm-242	**10**	**10^5**	**10^2**	**10^7**	**10^6**
Cm-243	**1**	**10^4**	**1**	**10^7**	**10^5**
Cm-244	**1**	**10^4**	**10**	**10^7**	**10^5**
Cm-245	**0.1**	**10^3**	**1**	**10^6**	**10^4**
Cm-246	**0.1**	**10^3**	**1**	**10^6**	**10^4**
Cm-247+	**0.1**	**10^4**	**1**	**10^6**	**10^5**
Cm-248	**0.1**	**10^3**	**1**	**10^6**	**10^4**
Berkelium					

(1) Potassium salts in quantities less than 1,000kg are exempt.

1	*2*	*3*	*4*	*5*	*6*
Radionuclide name, symbol, isotope	***Concentration for: Notification (any amount of radioactive material); Registration (amounts of radioactive material that exceed 1,000kg)***	***Quantity for Notification***	***Concentration for Registration (amounts of radioactive material that do not exceed 1,000kg)***	***Quantity for notification of occurrences***	***Quantity for notification of occurrences***
	Regulation 5(1) and Schedule 1, paragraph 1(a); regulation 6(2)(f)	***Regulation 5(1) and Schedule 1, paragraph 1(b)***	***Regulation 6(2)(e)***	***Regulation 31(1)***	***Regulation 31(3)***
	(Bq/g)	***(Bq)***	***(Bq/g)***	***(Bq)***	***(Bq)***
Bk-249	**10^2**	**10^6**	**10^3**	**10^9**	**10^7**
Californium					
Cf-246	**10^3**	**10^6**	**10^3**	**10^9**	**10^7**
Cf-248	**1**	**10^4**	**10**	**10^7**	**10^5**
Cf-249	**0.1**	**10^3**	**1**	**10^6**	**10^4**
Cf-250	**1**	**10^4**	**10**	**10^6**	**10^5**
Cf-251	**0.1**	**10^3**	**1**	**10^6**	**10^4**
Cf-252	**1**	**10^4**	**10**	**10^7**	**10^5**
Cf-253	**10^2**	**10^5**	**10^2**	**10^8**	**10^6**
Cf-254	**1**	**10^3**	**1**	**10^7**	**10^4**
Einsteinium					
Es-253	**10^2**	**10^5**	**10^2**	**10^8**	**10^6**
Es-254+	**0.1**	**10^4**	**10**	**10^7**	**10^5**
Es-254m+	**10**	**10^6**	**10^2**	**10^9**	**10^7**
Fermium					
Fm-254	**10^4**	**10^7**	**10^4**	**10^{10}**	**10^8**
Fm-255	**10^2**	**10^6**	**10^3**	**10^9**	**10^7**
Other radionuclides not listed above (see Note 1)					
	0.01	**10^3**	**0.1**	**10^5**	**10^4**
Note 1 In the case of radionuclides not specified elsewhere in this Part, the quantities specified in this entry are to be used unless the Executive has approved some other quantity for that radionuclide.					

(1) Potassium salts in quantities less than 1,000kg are exempt.

1	*2*	*3*	*4*	*5*	*6*
Radionuclide name, symbol, isotope	***Concentration for: Notification (any amount of radioactive material); Registration (amounts of radioactive material that exceed 1,000kg)***	***Quantity for Notification***	***Concentration for Registration (amounts of radioactive material that do not exceed 1,000kg)***	***Quantity for notification of occurrences***	***Quantity for notification of occurrences***
	Regulation 5(1) and Schedule 1, paragraph 1(a); regulation 6(2)(f)	***Regulation 5(1) and Schedule 1, paragraph 1(b)***	***Regulation 6(2)(e)***	***Regulation 31(1)***	***Regulation 31(3)***
	(Bq/g)	***(Bq)***	***(Bq/g)***	***(Bq)***	***(Bq)***
Note 2 Nuclides carrying the suffix "+" in the above table represent parent nuclides and their progeny as listed in the table below. The dose contributions for those progeny are taken into account in the dose calculation (thus requiring only the exemption level of the parent radionuclide to be considered).					

(1) Potassium salts in quantities less than 1,000kg are exempt.

List of parent nuclides and their progeny as referred to in Note 2 above

Parent radionuclide	***Progeny***
Fe-52	Mn-52m
Zn-69m	Zn-69
Ge-68	Ga-68
Sr-90	Y-90
Sr-91	Y-91m
Zr-93	Nb-93m
Zr-95	Nb-95
Zr-97	Nb-97m, Nb-97
Nb-97	Nb-97m
Mo-99	Tc-99m
Mo-101	Tc-101
Ru-103	Rh-103m
Ru-105	Rh-105m

Parent radionuclide	***Progeny***
Ru-106	Rh-106
Pd-103	Rh-103m
Pd-109	Ag-109m
Ag-108m	Ag-108
Ag-110m	Ag-110
Cd-109	Ag-109m
Cd-115	In-115m
Cd-115m	In-115m
In-114m	In-114
Sn-113	In-113m
Sb-125	Te-125m
Te-127m	Te-127
Te-129m	Te-129
Te-131m	Te-131
Te-132	I-132
Cs-137	Ba-137m
Ba-140	La-140
Ce-144	Pr-144, Pr-144m
Pb-210	Bi-210, Po-210
Pb-212	Bi-212, Ti-208, Po-212
Bi-212	Ti-208, Po-212
Rn-220	Po-216
Rn-222	Po-218, Pb-214, Bi-214, Po-214
Ra-223	Rn-219, Po-215, Pb-211, Bi-211, Ti-207
Ra-224	Rn-220, Po-216, Pb-212, Bi-212, Ti-208, Po-212
Ra-226	Rn-222, Po-218, Pb-214, Bi-214, Po-214, Pb-210, Bi-210, Po-210
Ra-228	Ac-228
Th-226	Ra-222, Rn-218, Po-214
Th-228	Ra-224, Rn-220, Po-216, Pb-212, Bi-212, Ti-208, Po-212
Th-229	Ra-225, Ac-225, Fr-221, At-217, Bi-213, Po-213, Pb-209
Th-234	Pa-234m

Parent radionuclide	***Progeny***
U-230	Th-226, Ra-222, Rn-218, Po-214
U-232	Th-228, Ra-224, Rn-220, Po-216, Pb-212, Bi-212, Ti-208, Po-212
U-235	Th-231
U-238	Th-234, Pa-234m
U-240	Np-240m, Np-240
Np-237	Pa-233
Pu-244	U-240, Np-240m, Np-240
Am-242m	Am-242, Np-238
Am-243	Np-239
Cm-247	Pu-243
Es-254	Bk-250
Es-254m	Fm-254

Regulations 2(4), 6(2)and Schedule 1

PART 2

Table of naturally occurring radionuclides (which are not processed for their radioactive, fissile or fertile properties)

Values for exemption from notification and registration for naturally occurring radionuclides in solid materials (which are not processed

for their radioactive, fissile or fertile properties), which apply whether or not the radionuclide is in secular equilibrium with its progeny

1	2	3	4
Radionuclide name, symbol, isotope	***Concentration for: Notification (any amount of radioactive material); Registration (amounts of radioactive material that exceed 1,000kg)***	***Quantity for Notification***	***Concentration for Registration (amounts of radioactive material that do not exceed 1,000kg)***
	Regulation 5(1) and Schedule 1, paragraph 1(a); regulation 6(2)(f)	***Regulation 5(1) and Schedule 1, paragraph 1(b)***	***Regulation 6(2)(e)***
	(Bq/g)	***(Bq)***	***(Bq/g)***
K-40[(1)]	10	10^6	10^2
Rb-87	1	10^7	10^4
Pb-210+	1	10^4	10
Po-210	1	10^4	10
Ra-226+	1	10^4	10
Ra-228+	1	10^5	10
Th-228+	1	10^4	1
Th-232 sec	1	10^3	1
U-238 sec	1	10^3	1

Note

Nuclides carrying the suffix "+" in the above table represent parent nuclides and their progeny as listed in the table below. The dose contributions of those progeny are taken into account in the dose calculation (thus requiring only the exemption level of the parent radionuclide to be considered).

(1) Potassium salts in quantities less than 1,000kg are exempt.

List of parent nuclides and their progeny as referred to in the Note above

Parent radionuclide	***Progeny***
Pb-210	Bi-210, Po-210
Ra-226	Rn-222, Po-218, Pb-214, Bi-214, Po-214, Pb-210, Bi-210, Po-210
Ra-228	Ac-228

Parent radionuclide	***Progeny***
Th-228	Ra-224, Rn-220, Po-216, Pb-212, Bi-212, Tl-208, Po-212

Regulation 2(4)

PART 3

Quantity and concentration ratios for more than one radionuclide

1. For the purpose of Regulation 2(4)—

(a) the quantity ratio for more than one radionuclide is the sum of the quotients of the quantity of a radionuclide present Q_p divided by the quantity of that radionuclide specified in the appropriate entry in Parts 1,2 or 4 of this Schedule Q_{lim}, namely—

$$\sum \frac{Qp}{Q\,\mathrm{lim}}$$

(b) the concentration ratio for more than one radionuclide is the sum of the quotients of the concentration of a radionuclide present C_p divided by the concentration of that radionuclide specified in the appropriate entry in Parts 1 or 2 of this Schedule C_{lim}, namely—

$$\sum \frac{Cp}{C\,\mathrm{lim}}$$

2. In any case where the isotopic composition of a radioactive substance is not known or is only partially known, the quantity or concentration ratio for that substance is to be calculated by using the values specified in the appropriate column in Part 1 of this Schedule for 'other radionuclides not listed above' for any radionuclide that has not been identified or where the quantity or concentration of a radionuclide is uncertain, unless the employer can show that the use of some other value is appropriate in the circumstances of a particular case, when the employer may use that value.
Regulations 2(1) and 2(4)

PART 4

Table of quantities of radioactive material defining high-activity sealed sources

For radionuclides not listed in the table below, the relevant quantity value is the same as the D-value defined in section 2 Table 1 of the IAEA publication: Dangerous quantities of radioactive material (D-values), (EPR-D-VALUES 2006)

Radionuclide	***Quantity (Bq)***
Co-60	3×10^{10}
Se-75	2×10^{11}
Sr-90 (Y-90)	1×10^{12}
Cs-137	1×10^{11}

(*) The activity given is that of the alpha-emitting radionuclide.

Radionuclide	***Quantity (Bq)***
Pm-147	4×10^{13}
Gd-153	1×10^{12}
Tm-170	2×10^{13}
Yb-169	3×10^{11}
Ir-192	8×10^{10}
Ra-226	4×10^{10}
Pu-238	6×10^{10}
Pu-239/Be-9(*)	6×10^{10}
Am-241	6×10^{10}
Am-241/Be-9(*)	6×10^{10}
Cm-244	5×10^{10}
Cf-252	2×10^{10}

(*) The activity given is that of the alpha-emitting radionuclide.