

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)**

<i>1</i>	<i>2</i>	<i>3</i>	<i>4</i>	<i>5</i>	<i>6</i>
<i>Radionuclide name, symbol, isotope</i>	<i>Concentration for: Notification (any amount of radioactive material); Registration (amounts of radioactive material that exceed 1,000kg) Regulation 5(1) and Schedule 1, paragraph 1(a); regulation (f) (Bq/g)</i>	<i>Quantity for Notification Regulation 5(1) and Schedule 1, paragraph 1(b) (Bq)</i>	<i>Concentration for Registration (amounts of radioactive material that do not exceed 1,000kg) Regulation 6(2)(e) (Bq/g)</i>	<i>Quantity for notification of occurrences Regulation 31(1) (Bq)</i>	<i>Quantity for notification of occurrences Regulation 31(3) (Bq)</i>
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					

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

Status: This is the original version (as it was originally made).

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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

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K-43	10	10 ⁶	10	10 ¹¹	10 ⁷
Calcium					
Ca-45	10 ²	10 ⁷	10 ⁴	10 ¹⁰	10 ⁸
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					

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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
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

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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
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					

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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	
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

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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
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					

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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
Rh-105	10 ²	10 ⁷	10 ²	10 ¹²	10 ⁸

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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

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Sn-125	10	10 ⁵	10 ²	10 ¹⁰	10 ⁶
Antimony					
Sb-122	10	10 ⁴	10 ²	10 ¹¹	10 ⁵
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					

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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
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

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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					
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

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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
Gd-159	10 ²	10 ⁶	10 ³	10 ¹²	10 ⁷
Terbium					
Tb-160	1	10 ⁶	1	10 ¹⁰	10 ⁷
Dysprosium					

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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.

<i>1</i>	<i>2</i>	<i>3</i>	<i>4</i>	<i>5</i>	<i>6</i>
Radionuclide name, symbol, isotope	Concentration for: Notification (any amount of radioactive material); Registration (amounts of radioactive material that exceed 1,000kg) Regulation 5(1) and Schedule 1, paragraph 1(a); regulation (f) (Bq/g)	Quantity for Notification Regulation 5(1) and Schedule 1, paragraph 1(b) (Bq)	Concentration for Registration (amounts of radioactive material that do not exceed 1,000kg) Regulation 6(2)(e) (Bq/g)	Quantity for notification of occurrences Regulation 31(1) (Bq)	Quantity for notification of occurrences Regulation 31(3) (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

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

Status: This is the original version (as it was originally made).

<i>1</i>	<i>2</i>	<i>3</i>	<i>4</i>	<i>5</i>	<i>6</i>
Radionuclide name, symbol, isotope	Concentration for: Notification (any amount of radioactive material); Registration (amounts of radioactive material that exceed 1,000kg) Regulation 5(1) and Schedule 1, paragraph 1(a); regulation (f) (Bq/g)	Quantity for Notification Regulation 5(1) and Schedule 1, paragraph 1(b) (Bq)	Concentration for Registration (amounts of radioactive material that do not exceed 1,000kg) Regulation 6(2)(e) (Bq/g)	Quantity for notification of occurrences Regulation 31(1) (Bq)	Quantity for notification of occurrences Regulation 31(3) (Bq)
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					
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

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

<i>1</i>	<i>2</i>	<i>3</i>	<i>4</i>	<i>5</i>	<i>6</i>
Radionuclide name, symbol, isotope	Concentration for: Notification (any amount of radioactive material); Registration (amounts of radioactive material that exceed 1,000kg) Regulation 5(1) and Schedule 1, paragraph 1(a); regulation (f) (Bq/g)	Quantity for Notification Regulation 5(1) and Schedule 1, paragraph 1(b) (Bq)	Concentration for Registration (amounts of radioactive material that do not exceed 1,000kg) Regulation 6(2)(e) (Bq/g)	Quantity for notification of occurrences Regulation 31(1) (Bq)	Quantity for notification of occurrences Regulation 31(3) (Bq)
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					
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

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

Status: This is the original version (as it was originally made).

<i>1</i>	<i>2</i>	<i>3</i>	<i>4</i>	<i>5</i>	<i>6</i>
Radionuclide name, symbol, isotope	Concentration for: Notification (any amount of radioactive material); Registration (amounts of radioactive material that exceed 1,000kg) Regulation 5(1) and Schedule 1, paragraph 1(a); regulation (f) (Bq/g)	Quantity for Notification Regulation 5(1) and Schedule 1, paragraph 1(b) (Bq)	Concentration for Registration (amounts of radioactive material that do not exceed 1,000kg) Regulation 6(2)(e) (Bq/g)	Quantity for notification of occurrences Regulation 31(1) (Bq)	Quantity for notification of occurrences Regulation 31(3) (Bq)
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					
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

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

<i>1</i>	<i>2</i>	<i>3</i>	<i>4</i>	<i>5</i>	<i>6</i>
Radionuclide name, symbol, isotope	Concentration for: Notification (any amount of radioactive material); Registration (amounts of radioactive material that exceed 1,000kg) Regulation 5(1) and Schedule 1, paragraph 1(a); regulation (f) (Bq/g)	Quantity for Notification Regulation 5(1) and Schedule 1, paragraph 1(b) (Bq)	Concentration for Registration (amounts of radioactive material that do not exceed 1,000kg) Regulation 6(2)(e) (Bq/g)	Quantity for notification of occurrences Regulation 31(1) (Bq)	Quantity for notification of occurrences Regulation 31(3) (Bq)
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
Pu-236	1	10 ⁴	10	10 ⁷	10 ⁵
Pu-237	10 ²	10 ⁷	10 ³	10 ¹¹	10 ⁸

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

Status: This is the original version (as it was originally made).

<i>1</i>	<i>2</i>	<i>3</i>	<i>4</i>	<i>5</i>	<i>6</i>
Radionuclide name, symbol, isotope	Concentration for: Notification (any amount of radioactive material); Registration (amounts of radioactive material that exceed 1,000kg) Regulation 5(1) and Schedule 1, paragraph 1(a); regulation (f) (Bq/g)	Quantity for Notification Regulation 5(1) and Schedule 1, paragraph 1(b) (Bq)	Concentration for Registration (amounts of radioactive material that do not exceed 1,000kg) Regulation 6(2)(e) (Bq/g)	Quantity for notification of occurrences Regulation 31(1) (Bq)	Quantity for notification of occurrences Regulation 31(3) (Bq)
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

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

<i>1</i>	<i>2</i>	<i>3</i>	<i>4</i>	<i>5</i>	<i>6</i>
Radionuclide name, symbol, isotope	Concentration for: Notification (any amount of radioactive material); Registration (amounts of radioactive material that exceed 1,000kg) Regulation 5(1) and Schedule 1, paragraph 1(a); regulation 6(2)(f) (Bq/g)	Quantity for Notification Regulation 5(1) and Schedule 1, paragraph 1(b) (Bq)	Concentration for Registration (amounts of radioactive material that do not exceed 1,000kg) Regulation 6(2)(e) (Bq/g)	Quantity for notification of occurrences Regulation 31(1) (Bq)	Quantity for notification of occurrences Regulation 31(3) (Bq)
Cm-247+	0.1	10 ⁴	1	10 ⁶	10 ⁵
Cm-248	0.1	10 ³	1	10 ⁶	10 ⁴
Berkelium					
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

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

Status: This is the original version (as it was originally made).

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) Regulation 5(1) and Schedule 1, paragraph 1(a); regulation (f) (Bq/g)	Quantity for Notification Regulation 5(1) and Schedule 1, paragraph 1(b) (Bq)	Concentration for Registration (amounts of radioactive material that do not exceed 1,000kg) Regulation 6(2)(e) (Bq/g)	Quantity for notification of occurrences Regulation 31(1) (Bq)	Quantity for notification of occurrences Regulation 31(3) (Bq)
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.					
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

<i>Parent radionuclide</i>	<i>Progeny</i>
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
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, Tl-208, Po-212
Bi-212	Tl-208, Po-212
Rn-220	Po-216
Rn-222	Po-218, Pb-214, Bi-214, Po-214
Ra-223	Rn-219, Po-215, Pb-211, Bi-211, Tl-207
Ra-224	Rn-220, Po-216, Pb-212, Bi-212, Tl-208, Po-212
Ra-226	Rn-222, Po-218, Pb-214, Bi-214, Po-214, Pb-210, Bi-210, Po-210

Status: This is the original version (as it was originally made).

<i>Parent radionuclide</i>	<i>Progeny</i>
Ra-228	Ac-228
Th-226	Ra-222, Rn-218, Po-214
Th-228	Ra-224, Rn-220, Po-216, Pb-212, Bi-212, Tl-208, Po-212
Th-229	Ra-225, Ac-225, Fr-221, At-217, Bi-213, Po-213, Pb-209
Th-234	Pa-234m
U-230	Th-226, Ra-222, Rn-218, Po-214
U-232	Th-228, Ra-224, Rn-220, Po-216, Pb-212, Bi-212, Tl-208, Po-212
U-235	Th-231
U-238	Th-234, Pa-234m
U-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

<i>1</i>	<i>2</i>	<i>3</i>	<i>4</i>
Radionuclide name, symbol, isotope	Concentration for: Notification (any amount of radioactive material); Registration (amounts of radioactive material that exceed 1,000kg) Regulation 5(1) and Schedule 1, paragraph 1(a); regulation 6(2)(f) (Bq/g)	Quantity for Notification Regulation 5(1) and Schedule 1, paragraph 1(b) (Bq)	Concentration for Registration (amounts of radioactive material that do not exceed 1,000kg) Regulation 6(2)(e) (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

Status: This is the original version (as it was originally made).

<i>Parent radionuclide</i>	<i>Progeny</i>
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—

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

- (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—

$$\sum \frac{C_p}{C_{lim}}$$

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)

<i>Radionuclide</i>	<i>Quantity (Bq)</i>
Co-60	3×10^{10}
Se-75	2×10^{11}
Sr-90 (Y-90)	1×10^{12}

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

Radionuclide	Quantity (Bq)
Cs-137	1×10^{11}
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.