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SCHEDULES

[^{F1}SCHEDULE 1A

Section 1A-D

TABLES OF NORM INDUSTRIAL ACTIVITIES, RADIONUCLIDES AND SUMMATION RULES

Textual Amendments

- F1** Sch. 1A substituted for Sch. 1 (S.) (1.10.2011) by [The Radioactive Substances Act 1993 Amendment \(Scotland\) Regulations 2011 \(S.S.I. 2011/207\)](#), regs. 1(1), 7, **sch.**; and (N.I.) (1.10.2011) by [The Radioactive Substances Act 1993 \(Amendment\) Regulations \(Northern Ireland\) 2011 \(S.R. 2011/290\)](#), reg. 1, **Sch.**

Table 1

NORM INDUSTRIAL ACTIVITIES

Part 1

Production and use of thorium, or thorium compounds, and the production of products where thorium is deliberately added
Production and use of uranium or uranium compounds, and the production of products where uranium is deliberately added

PART 2

Extraction, production and use of rare earth elements and rare earth element alloys
Mining and processing of ores other than uranium ore
Production of oil and gas
Removal and management of radioactive scales and precipitates from equipment associated with industrial activities
Any industrial activity utilising phosphate ore
Manufacture of titanium dioxide pigments
The extraction and refining of zircon and manufacture of zirconium compounds
Production of tin, copper, aluminium, zinc, lead and iron and steel
Activities related to coal mine de-watering plants
Water treatment associated with provision of drinking water and the remediation of contamination from other NORM industrial activities
China clay extraction
[^{F2} Geothermal energy production]

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Textual Amendments

F2 Words in Sch. 1A inserted (N.I.) (1.6.2018) by [The Radioactive Substances \(Modification of Enactments\) Regulations \(Northern Ireland\) 2018 \(S.R. 2018/116\)](#), regs. 1(1), **2(8)(a)**

[^{F3}Table 2

CONCENTRATION OF RADIONUCLIDES: NORM INDUSTRIAL ACTIVITIES

Radionuclide	Solid or relevant liquid Concentration in becquerels per gram (Bq/g)	Any other liquid concentration in becquerels per litre (Bq/l)	Gaseous concentration in becquerels per cubic metre (Bq/m ³)
U-238sec	0.5	0.1	0.001
U-238+	5	10	0.01
U-234	5	10	0.01
Th-230	10	10	0.001
Ra-226+	0.5	1	0.01
Pb-210+	5	0.1	0.01
Po-210	5	0.1	0.01
U-235sec	1	0.1	0.0001
U-235+	5	10	0.01
Pa-231	5	1	0.001
Ac-227+	1	0.1	0.001
Th-232sec	0.5	0.1	0.001
Th-232	5	10	0.001
Ra-228+	1	0.1	0.01
Th-228+	0.5	1	0.001

1. “The table 2 summation rule” means the sum of the quotient A/B where—
- (a) “A” means the quantity of each radionuclide listed in column 1 of Table 2 that is present in the substance or article; and
 - (b) “B” means the quantity of that radionuclide specified in (as appropriate)—
 - (i) column 2 of Table 2 where the substance or article is a solid or a relevant liquid;
 - (ii) column 3 of Table 2 where the substance or article is any other liquid;
 - OR
 - (iii) column 4 of Table 2 where the substance or article is a gas.]

Textual Amendments

F3 Sch. 1A Table 2 substituted (N.I.) (1.6.2018) by [The Radioactive Substances \(Modification of Enactments\) Regulations \(Northern Ireland\) 2018 \(S.R. 2018/116\)](#), regs. 1(1), **2(8)(b)**

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[^{F3}Table 2

CONCENTRATION OF RADIONUCLIDES: NORM INDUSTRIAL ACTIVITIES

<i>Radionuclide</i>	<i>Solid or relevant liquid concentration in becquerels per gram (Bq/g)</i>	<i>Any other liquid concentration in becquerels per litre (Bq/l)</i>	<i>Gaseous concentration in becquerels per cubic metre (Bq/m³)</i>
U-238sec	1	0.1	0.001
U-238+	5	10	0.01
U-234	5	10	0.01
Th-230	10	10	0.001
Ra-226+	1	1	0.1
Pb-210+	5	0.1	0.1
Po-210	5	0.1	0.1
U-235sec	1	0.1	0.0001
U-235+	5	10	0.01
Pa-231	5	1	0.001
Ac-227+	1	0.1	0.001
Th-232sec	1	0.1	0.001
Th-232	5	10	0.001
Ra228+	1	0.1	0.01
Th-228+	1	1	0.001]

[^{F4}Table 3

CONCENTRATION OF RADIONUCLIDES

<i>Radionuclide</i>	<i>Concentration in becquerels per gram (Bq/g)</i>
H-3	10 ²
Be-7	10
C-14	10
F-18	1
Na-22	0.1
Na-24	0.1

2. “The table 3 summation rule” means the sum of the quotient A/B where—
- “A” means the concentration of each radionuclide listed in column 1 of Table 3 that is present in the substance or article, and
 - “B” means the quantity of that radionuclide specified in column 2 of Table 3.]

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<i>Radionuclide</i>	<i>Concentration in becquerels per gram (Bq/g)</i>
Si-31	10 ²
P-32	10 ²
P-33	10 ²
S-35	10 ²
Cl-36	1
Cl-38	1
K-42	10
K-43	1
Ca-45	10 ²
Ca-47	1
Sc-46	0.1
Sc-47	10
Sc-48	0.1
V-48	0.1
Cr-51	10
Mn-51	1
Mn-52	0.1
Mn-52m	1
Mn-53	10 ³
Mn-54	0.1
Mn-56	1
Fe-52+	1
Fe-55	10 ²
Fe-59	0.1
Co-55	1
Co-56	0.1
Co-57	1
Co-58	0.1

2. “The table 3 summation rule” means the sum of the quotient A/B, where—
- (a) “A” means the concentration of each radionuclide listed in column 1 of Table 3 that is present in the substance or article, and
 - (b) “B” means the quantity of that radionuclide specified in column 2 of Table 3.]

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<i>Radionuclide</i>	<i>Concentration in becquerels per gram (Bq/g)</i>
Co-58m	10 ²
Co-60	0.1
Co-60m	10 ³
Co-61	10 ²
Co-62m	1
Ni-59	10 ²
Ni-63	10 ²
Ni-65	1
Cu-64	10
Zn-65	1
Zn-69	10 ²
Zn-69m+	1
Ga-72	1
Ge-71	10 ⁴
As-73	10 ²
As-74	1
As-76	1
As-77	10 ²
Se-75	1
Br-82	0.1
Rb-86	10
Sr-85	1
Sr-85m	10
Sr-87m	10
Sr-89	10
Sr-90+	1
Sr-91+	1
Sr-92	1

2. “The table 3 summation rule” means the sum of the quotient A/B where—
- “A” means the concentration of each radionuclide listed in column 1 of Table 3 that is present in the substance or article, and
 - “B” means the quantity of that radionuclide specified in column 2 of Table 3.]

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<i>Radionuclide</i>	<i>Concentration in becquerels per gram (Bq/g)</i>
Y-90	10 ²
Y-91	10
Y-91m	1
Y-92	10
Y-93	10
Zr-93	10
Zr-95+	0.1
Zr-97+	1
Nb-93m	10 ²
Nb-94	0.1
Nb-95	1
Nb-97+	1
Nb-98	1
Mo-90	1
Mo-93	10
Mo-99+	1
Mo-101+	1
Tc-96	0.1
Tc-96m	10
Tc-97	10
Tc-97m	10
Tc-99	1
Tc-99m	10 ²
Ru-97	1
Ru-103+	1
Ru-105+	1
Ru-106+	1
Rh-103m	10 ⁴
Rh-105	10

2. “The table 3 summation rule” means the sum of the quotient A/B where—
- (a) “A” means the concentration of each radionuclide listed in column 1 of Table 3 that is present in the substance or article, and
 - (b) “B” means the quantity of that radionuclide specified in column 2 of Table 3.]

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<i>Radionuclide</i>	<i>Concentration in becquerels per gram (Bq/g)</i>
Pd-103+	10 ³
Pd-109+	10 ²
Ag-105	1
Ag-108m+	0.1
Ag-110m+	0.1
Ag-111	10
Cd-109+	10
Cd-115+	1
Cd-115m+	10
In-111	1
In-113m	10
In-114m+	1
In-115m	10
Sn-113+	1
Sn-125	1
Sb-122	1
Sb-124	0.1
Sb-125+	1
Te-123m	1
Te-125m	10 ²
Te-127	10 ²
Te-127m+	10
Te-129	10
Te-129m+	10
Te-131	10
Te-131m+	1
Te-132+	0.1
Te-133+	1
Te-133m+	1

2. “The table 3 summation rule” means the sum of the quotient A/B where—
- “A” means the concentration of each radionuclide listed in column 1 of Table 3 that is present in the substance or article, and
 - “B” means the quantity of that radionuclide specified in column 2 of Table 3.]

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<i>Radionuclide</i>	<i>Concentration in becquerels per gram (Bq/g)</i>
Te-134	1
I-123	10
I-125	1
I-126	1
I-129	0.1
I-130	1
I-131+	1
I-132	1
I-133	1
I-134	1
I-135	1
Cs-129	1
Cs-131	10 ³
Cs-132	1
Cs-134	0.1
Cs-134m	10 ³
Cs-135	10
Cs-136	0.1
Cs-137+	1
Cs-138	1
Ba-131	1
Ba-140	0.1
La-140	0.1
Ce-139	1
Ce-141	10
Ce-143	1
Ce-144+	10
Pr-142	10
Pr-143	10 ²

2. “The table 3 summation rule” means the sum of the quotient A/B where—
- (a) “A” means the concentration of each radionuclide listed in column 1 of Table 3 that is present in the substance or article, and
 - (b) “B” means the quantity of that radionuclide specified in column 2 of Table 3.]

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<i>Radionuclide</i>	<i>Concentration in becquerels per gram (Bq/g)</i>
Nd-147	10
Nd-149	10
Pm-147	10 ²
Pm-149	10 ²
Sm-151	10 ²
Sm-153	10
Eu-152	0.1
Eu-152m	10
Eu-154	0.1
Eu-155	10
Gd-153	10
Gd-159	10
Tb-160	0.1
Dy-165	10 ²
Dy-166	10
Ho-166	10
Er-169	10 ²
Er-171	10
Tm-170	10
Tm-171	10 ²
Yb-175	10
Lu-177	10
Hf-181	1
Ta-182	0.1
W-181	10
W-185	10 ²
W-187	1
Re-186	10 ²

2. “The table 3 summation rule” means the sum of the quotient A/B where—
- “A” means the concentration of each radionuclide listed in column 1 of Table 3 that is present in the substance or article, and
 - “B” means the quantity of that radionuclide specified in column 2 of Table 3.]

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<i>Radionuclide</i>	<i>Concentration in becquerels per gram (Bq/g)</i>
Re-188	10
Os-185	1
Os-191	10
Os-191m	10 ³
Os-193	10
Ir-190	0.1
Ir-192	0.1
Ir-194	10
Pt-191	1
Pt-193m	10 ²
Pt-197	10 ²
Pt-197m	10 ²
Au-198	1
Au-199	10
Hg-197	10
Hg-197m	10
Hg-203	1
Tl-200	1
Tl-201	10
Tl-202	1
Tl-204	10
Pb-203	1
Pb-210+	0.01
Pb-212+	1
Bi-206	0.1
Bi-207	0.1
Bi-210	10
Bi-212+	1
Po-203	1

2. “The table 3 summation rule” means the sum of the quotient A/B where—
- (a) “A” means the concentration of each radionuclide listed in column 1 of Table 3 that is present in the substance or article, and
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<i>Radionuclide</i>	<i>Concentration in becquerels per gram (Bq/g)</i>
Po-205	1
Po-207	1
Po-210	0.01
At-211	10 ²
Ra-223+	1
Ra-224+	1
Ra-225	1
Ra-226+	0.01
Ra-227	10
Ra-228+	0.01
Ac-227+	0.01
Ac-228	1
Th-226+	10 ²
Th-227	1
Th-228+	0.1
Th-229+	0.1
Th-230	0.1
Th-231	10 ²
Th-232	0.01
Th-232+	0.01
Th-232sec	0.01
Th-234+	10
Pa-230	1
Pa-231	0.01
Pa-233	1
U-230+	1
U-231	10
U-232+	0.1
U-233	1

2. “The table 3 summation rule” means the sum of the quotient A/B where—
- “A” means the concentration of each radionuclide listed in column 1 of Table 3 that is present in the substance or article, and
 - “B” means the quantity of that radionuclide specified in column 2 of Table 3.]

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<i>Radionuclide</i>	<i>Concentration in becquerels per gram (Bq/g)</i>
U-234	1
U-235+	1
U-235sec	0.01
U-236	1
U-237	10
U-238+	1
U-238sec	0.01
U-239	10 ²
U-240+	10
Np-237+	0.1
Np-239	10
Np-240	1
Pu-234	10 ²
Pu-235	10 ²
Pu-236	0.1
Pu-237	10
Pu-238	0.1
Pu-239	0.1
Pu-240	0.1
Pu-241	1
Pu-242	0.1
Pu-243	10 ²
Pu-244+	0.1
Am-241	0.1
Am-242	10 ²
Am-242m+	0.1
Am-243+	0.1
Cm-242	1
Cm-243	0.1

2. “The table 3 summation rule” means the sum of the quotient A/B where—
- (a) “A” means the concentration of each radionuclide listed in column 1 of Table 3 that is present in the substance or article, and
 - (b) “B” means the quantity of that radionuclide specified in column 2 of Table 3.]

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<i>Radionuclide</i>	<i>Concentration in becquerels per gram (Bq/g)</i>
Cm-244	0.1
Cm-245	0.1
Cm-246	0.1
Cm-247+	0.1
Cm-248	0.1
Bk-249	10
Cf-246	10
Cf-248	1
Cf-249	0.1
Cf-250	0.1
Cf-251	0.1
Cf-252	0.1
Cf-253	1
Cf-253+	1
Cf-254	0.1
Es-253	1
Es-254+	0.1
Es-254m+	1
Fm-254	10 ²
Fm-255	10
Any other solid or non-aqueous liquid radionuclide that is not of natural terrestrial or cosmic origin	0.01, unless the concentration which gives rise to the same 10 µSv/ year dose criteria as used in column 2 of this table can be calculated using guidance by Euratom in RP 122 part 1 or any successor Euratom guidance or decision applying to the derivation of the concentrations in this table, in which case that concentration.

2. “The table 3 summation rule” means the sum of the quotient A/B where—
- “A” means the concentration of each radionuclide listed in column 1 of Table 3 that is present in the substance or article, and
 - “B” means the quantity of that radionuclide specified in column 2 of Table 3.]

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Textual Amendments

F4 Sch. 1A Table 3 substituted (N.I.) (1.6.2018) by [The Radioactive Substances \(Modification of Enactments\) Regulations \(Northern Ireland\) 2018 \(S.R. 2018/116\)](#), regs. 1(1), **2(8)(c)**

[F4]Table 3

CONCENTRATION OF RADIONUCLIDES

<i>Radionuclide</i>	<i>Concentration in becquerels per gram (Bq/g)</i>
H-3	10 ²
Be-7	10
C-14	10
F-18	10
Na-22	0.1
Na-24	1
Si-31	10 ³
P-32	10 ³
P-33	10 ³
S-35	10 ²
Cl-36	1
Cl-38	10
K-42	10 ²
K-43	10
Ca-45	10 ²
Ca-47	10
Sc-46	0.1
Sc-47	10 ²
Sc-48	1
V-48	1
Cr-51	10 ²
Mn-51	10
Mn-52	1
Mn-52m	10
Mn-53	10 ²
Mn-54	0.1

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<i>Radionuclide</i>	<i>Concentration in becquerels per gram (Bq/g)</i>
Mn-56	10
Fe-52+	10
Fe-55	10 ³
Fe-59	1
Co-55	10
Co-56	0.1
Co-57	1
Co-58	1
Co-58m	10 ⁴
Co-60	0.1
Co-60m	10 ³
Co-61	10 ²
Co-62m	10
Ni-59	10 ²
Ni-63	10 ²
Ni-65	10
Cu-64	10 ²
Zn-65	0.1
Zn-69	10 ³
Zn-69m ⁺	10
Ga-72	10
Ge-71	10 ⁴
As-73	10 ³
As-74	10
As-76	10
As-77	10 ³
Se-75	1
Br-82	1
Rb-86	10 ²
Sr-85	1
Sr-85m	10 ²
Sr-87m	10 ²

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<i>Radionuclide</i>	<i>Concentration in becquerels per gram (Bq/g)</i>
Sr-89	10 ³
Sr-90+	1
Sr-91+	10
Sr-92	10
Y-90	10 ³
Y-91	10 ²
Y-91m	10 ²
Y-92	10 ²
Y-93	10 ²
Zr-93	10
Zr-95+	1
Zr-97+	10
Nb-93m	10
Nb-94	0.1
Nb-95	1
Nb-97+	10
Nb-98	10
Mo-90	10
Mo-93	10
Mo-99+	10
Mo-101+	10
Tc-96	1
Tc-96m	10 ³
Tc-97	10
Tc-97m	10
Tc-99	1
Tc-99m	10 ²
Ru-97	10
Ru-103+	1
Ru-105+	10
Ru-106+	0.1
Rh-103m	10 ⁴
Rh-105	10 ²

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<i>Radionuclide</i>	<i>Concentration in becquerels per gram (Bq/g)</i>
Pd-103+	10 ³
Pd-109+	10 ²
Ag-105	1
Ag-108m+	0.1
Ag-110m+	0.1
Ag-111	10
Cd-109+	1
Cd-115+	10 ²
Cd-115m+	10 ²
In-111	10
In-113m	10 ²
In-114m	10
In-115m	10 ²
Sn-113+	1
Sn-125	10
Sb-122	10
Sb-124	1
Sb-125+	0.1
Te-123m	1
Te-125m	10 ³
Te-127	10 ³
Te-127m+	10
Te-129	10 ²
Te-129m+	10
Te-131	10 ²
Te-131m+	10
Te-132+	1
Te-133+	10
Te-133m+	10
Te-134	10
I-123	10 ²
I-125	10 ²

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<i>Radionuclide</i>	<i>Concentration in becquerels per gram (Bq/g)</i>
I-126	10
I-129	0.01
I-130	10
I-131+	10
I-132	10
I-133	10
I-134	10
I-135	10
Cs-129	10
Cs-131	10 ³
Cs-132	10
Cs-134	0.1
Cs-134m	10 ³
Cs-135	10 ²
Cs-136	1
Cs-137+	1
Cs-138	10
Ba-131	10
Ba-140	1
La-140	1
Ce-139	1
Ce-141	100
Ce-143	10
Ce-144+	10
Pr-142	10 ²
Pr-143	10 ³
Nd-147	10 ²
Nd-149	10 ²
Pm-147	10 ³
Pm-149	10 ³
Sm-151	10 ³
Sm-153	10
Eu-152	0.1

Status: Point in time view as at 01/06/2018.

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<i>Radionuclide</i>	<i>Concentration in becquerels per gram (Bq/g)</i>
Eu-152m	10
Eu-154	0.1
Eu-155	1
Gd-153	10
Gd-159	10 ²
Tb-160	1
Dy-165	10 ³
Dy-166	10 ²
Ho-166	10 ²
Er-169	10 ³
Er-171	10 ²
Tm-170	10 ²
Tm-171	10 ³
Yb-175	10 ²
Lu-177	10 ²
Hf-181	1
Ta-182	0.1
W-181	10
W-185	10 ³
W-187	10
Re-186	10 ³
Re-188	10 ²
Os-185	10 ³
Os-191	10 ²
Os-191m	10 ³
Os-193	10 ²
Ir-190	1
Ir-192	1
Ir-194	10 ²
Pt-191	10
Pt-193m	10 ³

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<i>Radionuclide</i>	<i>Concentration in becquerels per gram (Bq/g)</i>
Pt-197	10 ³
Pt-197m	10 ²
Au-198	10
Au-199	10 ²
Hg-197	10 ²
Hg-197m	10 ²
Hg-203	10
TI-200	10
TI-201	10 ²
TI-202	10
TI-204	1
Pb-203	10
Pb-210+	0.01
Pb-212+	1
Bi-206	1
Bi-207	0.1
Bi-210	10
Bi-212+	1
Po-203	10
Po-205	10
Po-207	10
Po-210	0.01
At-211	10 ³
Ra-223+	1
Ra-224+	1
Ra-225	10
Ra-226+	0.01
Ra-227	10 ²
Ra-228+	0.01
Ac-227+	0.01
Ac-228	1
Th-226+	10 ³
Th-227	1

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<i>Radionuclide</i>	<i>Concentration in becquerels per gram (Bq/g)</i>
Th-228+	0.1
Th-229	0.1
Th-230	0.1
Th-231	10 ²
Th-232	0.01
Th-232+	0.01
Th-232sec	0.01
Th-234+	10
Pa-230	10
Pa-231	0.01
Pa-233	10
U-230	10
U-231	10 ²
U-232+	0.1
U-233	1
U-234	1
U-235+	1
U-235sec	0.01
U-236	10
U-237	10 ²
U-238+	1
U-238sec	0.01
U-239	10 ²
U-240+	10 ²
Np-237+	1
Np-239	10 ²
Np-240	10
Pu-234	10 ³
Pu-235	10 ²
Pu-236	1
Pu-237	10 ²
Pu-238	0.1
Pu-239	0.1

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<i>Radionuclide</i>	<i>Concentration in becquerels per gram (Bq/g)</i>
Pu-240	0.1
Pu-241	10
Pu-242	0.1
Pu-243	10 ³
Pu-244+	0.1
Am-241	0.1
Am-242	10 ³
Am-242m+	0.1
Am-243+	0.1
Cm-242	10
Cm-243	1
Cm-244	1
Cm-245	0.1
Cm-246	0.1
Cm-247+	0.1
Cm-248	0.1
Bk-249	10 ²
Cf-246	10 ³
Cf-248	1
Cf-249	0.1
Cf-250	1
Cf-251	0.1
Cf-252	1
Cf-253	10 ²
Cf-253+	10 ²
Cf-254	1
Es-253	10 ²
Es-254+	0.1
Es-254m+	10
Fm-254	10 ⁴
Fm-255	10 ²
Any other solid or non-aqueous liquid radionuclide that is not	0.01, unless the concentration which gives rise to the same 10 μ Sv/year dose criteria as used in column 2 of this table can be calculated by reference to the IAEA publication “Application

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<i>Radionuclide</i>	<i>Concentration in becquerels per gram (Bq/g)</i>
of natural terrestrial or cosmic origin	of the Concepts of Exclusion, Exemption and Clearance ⁷ IAEA Safety Standards Series NO. RS-G-1.7.]

Table 4

RADIONUCLIDES IN SECULAR EQUILIBRIUM

<i>Parent radionuclide</i>	<i>Daughter radionuclides</i>
Ac-227+	Th-227, Fr-223, Ra-223, Rn-219, Po-215, Pb-211, Bi-211, Tl-207, Po-211
Ag-108m+	Ag-108
Ag-110m+	Ag-110
Am-242m+	Np-238
Am-243+	Np-239
Bi-212+	Tl-208
Cd-109+	Ag-109m
Cd-115+	In-115m
Cd-115m+	In-115m
Ce-144+	Pr-144, Pr-144m
Cf-253+	Cm-249
Cm-247+	Pu-243
Cs-137+	Ba-137m
Es-254+	Bk-250
Es-254m+	Fm-254
Fe-52+	Mn-52m
I-131+	Xe-131m
In-114m+	In-114
Mo-99+	Tc-99m
Mo-101+	Tc-101
Nb-97+	Nb-97m
Np-237+	Pa-233
Pb-210+	Bi-210, Po-210
Pb-212+	Bi-212, Tl-208
Pd-103+	Rh-103m
Pd-109+	Ag-109m
Pu-244+	U-240, Np-240m, Np-240

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<i>Parent radionuclide</i>	<i>Daughter radionuclides</i>
Ra-223+	Rn-219, Po-215, Pb-211, Bi-211, Tl-207
Ra-224+	Rn-220, Po-216, Pb-212, Bi-212, Tl-208
Ra-226+	Rn-222, Po-218, Pb-214, Bi-214, Po-214
Ra-228+	Ac-228
Ru-103+	Rh-103m
Ru-105+	Rh-105m
Ru-106+	Rh-106
Sb-125+	Te-125m
Sn-113+	In-113m
Sr-90+	Y-90
Sr-91+	Y-91m
Te-127m+	Te-127
Te-129m+	Te-129
Te-131m+	Te-131
Te-132+	I-132
Te-133+	I-133, Xe-133m, Xe-133
Te-133m+	Te-133, I-133, Xe-133m, Xe-133
Th-226+	Ra-222, Rn-218, Po-214
Th-228+	Ra-224, Rn-220, Po-216, Pb-212, Bi-212, Tl-208
Th-229+	Ra-225, Ac-225, Fr-221, At-217, Bi-213, Tl-209, Pb-209
Th-232+	Ra-228, Ac-228, Th-228, Ra-224, Rn-220, Po-216, Pb-212, Bi-212, Tl-208
Th-232sec	Ra-228, Ac-228, Th-228, Ra-224, Rn-220, Po-216, Pb-212, Bi-212, Po-212, Tl-208
Th-234+	Pa-234m, Pa-234
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
U-235+	Th-231
U-235sec	Th-231, Pa-231, Ac-227, Th-227, Fr-223, Ra-223, Rn-219, Po-215, Pb-211, Bi-211, Tl-207, Po-211
U-238+	Th-234, Pa-234m, Pa-234
U-238sec	Th-234, Pa-234m, Pa-234, U-234, Th-230, Ra-226, Rn-222, Po-218, Pb-214, Bi-214, Po-214, Pb-210, Bi-210, Po-210
U-240+	Np-240m, Np-240
Zn-69m+	Zn-69

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<i>Parent radionuclide</i>	<i>Daughter radionuclides</i>
Zr-95+	Nb-95m
Zr-97+	Nb-97m, Nb-97]

Status:

Point in time view as at 01/06/2018.

Changes to legislation:

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