

## SCHEDULE 2

Regulation 3(1) and (2)

**Specified Quantities of Radionuclides on Premises****Part I****Table of Radionuclides**

<i>Radionuclide name, symbol</i>	<i>Radionuclide form</i>	<i>Quantity (Bq)</i>
<b>Actinium</b>		
Ac-224		$2 \times 10^{11}$
Ac-225		$3 \times 10^9$
Ac-226		$2 \times 10^{10}$
Ac-227		$4 \times 10^7$
Ac-228		$5 \times 10^{11}$
<b>Aluminium</b>		
Al-26		$7 \times 10^{10}$
<b>Americium</b>		
Am-237		$4 \times 10^{12}$
Am-238		$6 \times 10^{12}$
Am-239		$2 \times 10^{12}$
Am-240		$4 \times 10^{12}$
Am-241		$3 \times 10^8$
Am-242		$1 \times 10^{12}$
Am-242m		$3 \times 10^8$
Am-243		$3 \times 10^8$
Am-244		$2 \times 10^{12}$
Am-244m		$2 \times 10^{14}$
Am-245		$2 \times 10^{12}$
Am-246		$1 \times 10^{12}$
Am-246m		$2 \times 10^{12}$
<b>Antimony</b>		
Sb-115		$2 \times 10^{12}$
Sb-116		$2 \times 10^{12}$

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<i>Radionuclide name, symbol</i>	<i>Radionuclide form</i>	<i>Quantity (Bq)</i>
Sb-116m		2 10 <sup>12</sup>
Sb-117		1 10 <sup>13</sup>
Sb-118m		7 10 <sup>12</sup>
Sb-119		1 10 <sup>13</sup>
Sb-120	(long lived isotope)	3 10 <sup>12</sup>
Sb-120	(short lived isotope)	2 10 <sup>12</sup>
Sb-122		2 10 <sup>12</sup>
Sb-124		4 10 <sup>11</sup>
Sb-124m		4 10 <sup>12</sup>
Sb-125		4 10 <sup>11</sup>
Sb-126		1 10 <sup>12</sup>
Sb-126m		2 10 <sup>12</sup>
Sb-127		2 10 <sup>12</sup>
Sb-128	(long lived isotope)	2 10 <sup>12</sup>
Sb-128	(short lived isotope)	1 10 <sup>12</sup>
Sb-129		2 10 <sup>12</sup>
Sb-130		1 10 <sup>12</sup>
Sb-131		2 10 <sup>12</sup>
<b>Argon</b>		
Ar-37	(gas)	4 10 <sup>17</sup>
Ar-39	(gas)	2 10 <sup>16</sup>
Ar-41	(gas)	4 10 <sup>13</sup>
<b>Arsenic</b>		
As-69		7 10 <sup>11</sup>
As-70		1 10 <sup>12</sup>
As-71		3 10 <sup>12</sup>
As-72		9 10 <sup>11</sup>
As-73		8 10 <sup>12</sup>
As-74		2 10 <sup>12</sup>
As-76		9 10 <sup>11</sup>

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<i>Radionuclide name, symbol</i>	<i>Radionuclide form</i>	<i>Quantity (Bq)</i>
As-77		2 10 <sup>12</sup>
As-78		7 10 <sup>11</sup>
<b>Astatine</b>		
At-207		4 10 <sup>12</sup>
At-211		2 10 <sup>11</sup>
<b>Barium</b>		
Ba-126		2 10 <sup>13</sup>
Ba-128		1 10 <sup>13</sup>
Ba-131		6 10 <sup>12</sup>
Ba-131m		3 10 <sup>12</sup>
Ba-133		4 10 <sup>11</sup>
Ba-133m		2 10 <sup>12</sup>
Ba-135m		2 10 <sup>12</sup>
Ba-139		1 10 <sup>12</sup>
Ba-140		2 10 <sup>12</sup>
Ba-141		1 10 <sup>12</sup>
Ba-142		2 10 <sup>12</sup>
<b>Berkelium</b>		
Bk-245		3 10 <sup>12</sup>
Bk-246		6 10 <sup>12</sup>
Bk-247		3 10 <sup>8</sup>
Bk-249		2 10 <sup>11</sup>
Bk-250		2 10 <sup>12</sup>
<b>Beryllium</b>		
Be-7		2 10 <sup>13</sup>
Be-10		6 10 <sup>11</sup>
<b>Bismuth</b>		
Bi-200		2 10 <sup>12</sup>
Bi-201		2 10 <sup>12</sup>
Bi-202		3 10 <sup>12</sup>

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Bi-203		4 10 <sup>12</sup>
Bi-205		2 10 <sup>12</sup>
Bi-206		2 10 <sup>12</sup>
Bi-207		1 10 <sup>11</sup>
Bi-210		2 10 <sup>11</sup>
Bi-210m		6 10 <sup>9</sup>
Bi-212		7 10 <sup>11</sup>
Bi-213		7 10 <sup>11</sup>
Bi-214		1 10 <sup>12</sup>
<b>Bromine</b>		
Br-74		8 10 <sup>11</sup>
Br-74m		6 10 <sup>11</sup>
Br-75		2 10 <sup>12</sup>
Br-76		1 10 <sup>12</sup>
Br-77		4 10 <sup>13</sup>
Br-80		1 10 <sup>12</sup>
Br-80m		5 10 <sup>12</sup>
Br-82		3 10 <sup>12</sup>
Br-83		2 10 <sup>12</sup>
Br-84		7 10 <sup>11</sup>
<b>Cadmium</b>		
Cd-104		1 10 <sup>13</sup>
Cd-107		4 10 <sup>12</sup>
Cd-109		2 10 <sup>12</sup>
Cd-113		2 10 <sup>11</sup>
Cd-113m		1 10 <sup>11</sup>
Cd-115		2 10 <sup>12</sup>
Cd-115m		2 10 <sup>12</sup>
Cd-117		2 10 <sup>12</sup>
Cd-117m		2 10 <sup>12</sup>

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<i>Radionuclide name, symbol</i>	<i>Radionuclide form</i>	<i>Quantity (Bq)</i>
<b>Caesium</b>		
Cs-125		2 10 <sup>12</sup>
Cs-127		1 10 <sup>13</sup>
Cs-129		2 10 <sup>13</sup>
Cs-130		2 10 <sup>12</sup>
Cs-131		6 10 <sup>13</sup>
Cs-132		9 10 <sup>12</sup>
Cs-134		7 10 <sup>10</sup>
Cs-134m		4 10 <sup>12</sup>
Cs-135		9 10 <sup>11</sup>
Cs-135m		8 10 <sup>12</sup>
Cs-136		8 10 <sup>11</sup>
Cs-137		1 10 <sup>11</sup>
Cs-138		8 10 <sup>11</sup>
<b>Calcium</b>		
Ca-41		3 10 <sup>13</sup>
Ca-45		3 10 <sup>12</sup>
Ca-47		2 10 <sup>12</sup>
<b>Californium</b>		
Cf-244		2 10 <sup>12</sup>
Cf-246		5 10 <sup>10</sup>
Cf-248		2 10 <sup>9</sup>
Cf-249		3 10 <sup>8</sup>
Cf-250		7 10 <sup>8</sup>
Cf-251		3 10 <sup>8</sup>
Cf-252		1 10 <sup>9</sup>
Cf-253		2 10 <sup>10</sup>
Cf-254		4 10 <sup>8</sup>
<b>Carbon</b>		
C-11		2 10 <sup>12</sup>

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<i>Radionuclide name, symbol</i>	<i>Radionuclide form</i>	<i>Quantity (Bq)</i>
C-11	(vapour)	1 10 <sup>14</sup>
C-11	(dioxide gas)	1 10 <sup>14</sup>
C-11	(monoxide gas)	1 10 <sup>14</sup>
C-14		3 10 <sup>12</sup>
C-14	(vapour)	4 10 <sup>13</sup>
C-14	(dioxide gas)	3 10 <sup>15</sup>
C-14	(monoxide gas)	1 10 <sup>16</sup>
<b>Cerium</b>		
Ce-134		1 10 <sup>13</sup>
Ce-135		2 10 <sup>12</sup>
Ce-137		2 10 <sup>13</sup>
Ce-137m		2 10 <sup>12</sup>
Ce-139		2 10 <sup>12</sup>
Ce-141		2 10 <sup>12</sup>
Ce-143		2 10 <sup>12</sup>
Ce-144		3 10 <sup>11</sup>
<b>Chlorine</b>		
Cl-36		2 10 <sup>12</sup>
Cl-38		6 10 <sup>11</sup>
Cl-39		1 10 <sup>12</sup>
<b>Chromium</b>		
Cr-48		4 10 <sup>13</sup>
Cr-49		2 10 <sup>12</sup>
Cr-51		3 10 <sup>13</sup>
<b>Cobalt</b>		
Co-55		2 10 <sup>12</sup>
Co-56		2 10 <sup>11</sup>
Co-57		1 10 <sup>12</sup>
Co-58		6 10 <sup>11</sup>
Co-58m		2 10 <sup>13</sup>

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Co-60		6 10 <sup>10</sup>
Co-60m		7 10 <sup>12</sup>
Co-61		2 10 <sup>12</sup>
Co-62m		9 10 <sup>11</sup>
<b>Copper</b>		
Cu-60		1 10 <sup>12</sup>
Cu-61		2 10 <sup>12</sup>
Cu-64		4 10 <sup>12</sup>
Cu-67		3 10 <sup>12</sup>
<b>Curium</b>		
Cm-238		5 10 <sup>12</sup>
Cm-240		7 10 <sup>9</sup>
Cm-241		5 10 <sup>11</sup>
Cm-242		4 10 <sup>9</sup>
Cm-243		4 10 <sup>8</sup>
Cm-244		4 10 <sup>8</sup>
Cm-245		2 10 <sup>8</sup>
Cm-246		2 10 <sup>8</sup>
Cm-247		3 10 <sup>8</sup>
Cm-248		7 10 <sup>7</sup>
Cm-249		2 10 <sup>12</sup>
Cm-250		1 10 <sup>7</sup>
<b>Dysprosium</b>		
Dy-155		1 10 <sup>13</sup>
Dy-157		1 10 <sup>14</sup>
Dy-159		8 10 <sup>12</sup>
Dy-165		2 10 <sup>12</sup>
Dy-166		3 10 <sup>12</sup>
<b>Einsteinium</b>		
Es-250		1 10 <sup>13</sup>

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Es-251		6 10 <sup>12</sup>
Es-253		8 10 <sup>9</sup>
Es-254		2 10 <sup>9</sup>
Es-254m		5 10 <sup>10</sup>
<b>Erbium</b>		
Er-161		6 10 <sup>12</sup>
Er-165		2 10 <sup>14</sup>
Er-169		3 10 <sup>12</sup>
Er-171		2 10 <sup>12</sup>
Er-172		3 10 <sup>12</sup>
<b>Europium</b>		
Eu-145		4 10 <sup>12</sup>
Eu-146		3 10 <sup>12</sup>
Eu-147		4 10 <sup>12</sup>
Eu-148		4 10 <sup>11</sup>
Eu-149		8 10 <sup>12</sup>
Eu-150	(long lived isotope)	1 10 <sup>11</sup>
Eu-150	(short lived isotope)	2 10 <sup>12</sup>
Eu-152		1 10 <sup>11</sup>
Eu-152m		2 10 <sup>12</sup>
Eu-154		1 10 <sup>11</sup>
Eu-155		2 10 <sup>12</sup>
Eu-156		2 10 <sup>12</sup>
Eu-157		2 10 <sup>12</sup>
Eu-158		1 10 <sup>12</sup>
<b>Fermium</b>		
Fm-252		7 10 <sup>10</sup>
Fm-253		6 10 <sup>10</sup>
Fm-254		3 10 <sup>11</sup>
Fm-255		9 10 <sup>10</sup>

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Fm-257		3 10 <sup>9</sup>
<b>Fluorine</b>		
F-18		2 10 <sup>12</sup>
<b>Francium</b>		
Fr-222		1 10 <sup>12</sup>
Fr-223		2 10 <sup>12</sup>
<b>Gadolinium</b>		
Gd-145		2 10 <sup>12</sup>
Gd-146		2 10 <sup>12</sup>
Gd-147		5 10 <sup>12</sup>
Gd-148		9 10 <sup>8</sup>
Gd-149		6 10 <sup>12</sup>
Gd-151		5 10 <sup>12</sup>
Gd-152		1 10 <sup>9</sup>
Gd-153		2 10 <sup>12</sup>
Gd-159		2 10 <sup>12</sup>
<b>Gallium</b>		
Ga-65		1 10 <sup>12</sup>
Ga-66		9 10 <sup>11</sup>
Ga-67		5 10 <sup>12</sup>
Ga-68		2 10 <sup>12</sup>
Ga-70		1 10 <sup>12</sup>
Ga-72		2 10 <sup>12</sup>
Ga-73		2 10 <sup>12</sup>
<b>Germanium</b>		
Ge-66		3 10 <sup>12</sup>
Ge-67		7 10 <sup>11</sup>
Ge-68		1 10 <sup>12</sup>
Ge-69		2 10 <sup>12</sup>
Ge-71		7 10 <sup>14</sup>
Ge-75		2 10 <sup>12</sup>

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Ge-77		1 10 <sup>12</sup>
Ge-78		2 10 <sup>12</sup>
<b>Gold</b>		
Au-193		7 10 <sup>12</sup>
Au-194		1 10 <sup>13</sup>
Au-195		3 10 <sup>12</sup>
Au-198		2 10 <sup>12</sup>
Au-198m		2 10 <sup>12</sup>
Au-199		3 10 <sup>12</sup>
Au-200		1 10 <sup>12</sup>
Au-200m		2 10 <sup>12</sup>
Au-201		2 10 <sup>12</sup>
<b>Hafnium</b>		
Hf-170		4 10 <sup>12</sup>
Hf-172		5 10 <sup>11</sup>
Hf-173		6 10 <sup>12</sup>
Hf-175		2 10 <sup>12</sup>
Hf-177m		2 10 <sup>12</sup>
Hf-178m		4 10 <sup>10</sup>
Hf-179m		2 10 <sup>12</sup>
Hf-180m		2 10 <sup>12</sup>
Hf-181		1 10 <sup>12</sup>
Hf-182		7 10 <sup>10</sup>
Hf-182m		2 10 <sup>12</sup>
Hf-183		2 10 <sup>12</sup>
Hf-184		2 10 <sup>12</sup>
<b>Holmium</b>		
Ho-155		2 10 <sup>12</sup>
Ho-157		4 10 <sup>12</sup>
Ho-159		6 10 <sup>12</sup>

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Ho-161		1 10 <sup>13</sup>
Ho-162		5 10 <sup>12</sup>
Ho-162m		4 10 <sup>12</sup>
Ho-164		2 10 <sup>12</sup>
Ho-164m		4 10 <sup>12</sup>
Ho-166		1 10 <sup>12</sup>
Ho-166m		8 10 <sup>10</sup>
Ho-167		2 10 <sup>12</sup>
<b>Hydrogen</b>		
H-3	(tritiated water)	7 10 <sup>13</sup>
H-3	(organically bound tritium)	1 10 <sup>14</sup>
H-3	(tritiated water vapour)	1 10 <sup>15</sup>
H-3	(gas)	1 10 <sup>18</sup>
H-3	(tritiated methane gas)	1 10 <sup>17</sup>
H-3	(organically bound tritium gas/ vapour)	6 10 <sup>14</sup>
<b>Indium</b>		
In-109		7 10 <sup>12</sup>
In-110	(long lived isotope)	2 10 <sup>13</sup>
In-110	(short lived isotope)	1 10 <sup>12</sup>
In-111		9 10 <sup>12</sup>
In-112		2 10 <sup>12</sup>
In-113m		5 10 <sup>12</sup>
In-114		1 10 <sup>12</sup>
In-114m		9 10 <sup>11</sup>
In-115		6 10 <sup>10</sup>
In-115m		3 10 <sup>12</sup>
In-116m		2 10 <sup>12</sup>
In-117		2 10 <sup>12</sup>
In-117m		2 10 <sup>12</sup>
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In-119m		9 10 <sup>11</sup>
<b>Iodine</b>		
I-120		6 10 <sup>11</sup>
I-120	(elemental vapour)	2 10 <sup>13</sup>
I-120	(methyl iodide vapour)	2 10 <sup>13</sup>
I-120m		7 10 <sup>11</sup>
I-120m	(elemental vapour)	2 10 <sup>13</sup>
I-120m	(methyl iodide vapour)	2 10 <sup>13</sup>
I-121		4 10 <sup>12</sup>
I-121	(elemental vapour)	1 10 <sup>14</sup>
I-121	(methyl iodide vapour)	1 10 <sup>14</sup>
I-123		9 10 <sup>12</sup>
I-123	(elemental vapour)	5 10 <sup>13</sup>
I-123	(methyl iodide vapour)	6 10 <sup>13</sup>
I-124		2 10 <sup>12</sup>
I-124	(elemental vapour)	9 10 <sup>11</sup>
I-124	(methyl iodide vapour)	1 10 <sup>12</sup>
I-125		1 10 <sup>11</sup>
I-125	(elemental vapour)	1 10 <sup>12</sup>
I-125	(methyl iodide vapour)	1 10 <sup>12</sup>
I-126		8 10 <sup>11</sup>
I-126	(elemental vapour)	5 10 <sup>11</sup>
I-126	(methyl iodide vapour)	6 10 <sup>11</sup>
I-128		1 10 <sup>12</sup>
I-128	(elemental vapour)	2 10 <sup>14</sup>
I-128	(methyl iodide vapour)	5 10 <sup>14</sup>
I-129		1 10 <sup>10</sup>
I-129	(elemental vapour)	2 10 <sup>11</sup>
I-129	(methyl iodide vapour)	2 10 <sup>11</sup>

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I-130		$3 \times 10^{12}$
I-130	(elemental vapour)	$5 \times 10^{12}$
I-130	(methyl iodide vapour)	$6 \times 10^{12}$
I-131		$9 \times 10^{10}$
I-131	(elemental vapour)	$6 \times 10^{11}$
I-131	(methyl iodide vapour)	$7 \times 10^{11}$
I-132		$2 \times 10^{12}$
I-132	(elemental vapour)	$2 \times 10^{13}$
I-132	(methyl iodide vapour)	$3 \times 10^{13}$
I-132m		$2 \times 10^{12}$
I-132m	(elemental vapour)	$4 \times 10^{13}$
I-132m	(methyl iodide vapour)	$5 \times 10^{13}$
I-133		$2 \times 10^{12}$
I-133	(elemental vapour)	$2 \times 10^{12}$
I-133	(methyl iodide vapour)	$3 \times 10^{12}$
I-134		$2 \times 10^{12}$
I-134	(elemental vapour)	$3 \times 10^{13}$
I-134	(methyl iodide vapour)	$4 \times 10^{13}$
I-135		$2 \times 10^{12}$
I-135	(elemental vapour)	$9 \times 10^{12}$
I-135	(methyl iodide vapour)	$1 \times 10^{13}$
<b>Iridium</b>		
Ir-182		$1 \times 10^{12}$
Ir-184		$2 \times 10^{12}$
Ir-185		$3 \times 10^{12}$
Ir-186	(long lived isotope)	$3 \times 10^{12}$
Ir-186	(short lived isotope)	$2 \times 10^{12}$
Ir-187		$6 \times 10^{12}$
Ir-188		$5 \times 10^{12}$

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Ir-189		9 10 <sup>12</sup>
Ir-190		2 10 <sup>12</sup>
Ir-190m	(long lived isotope)	3 10 <sup>12</sup>
Ir-190m	(short lived isotope)	1 10 <sup>13</sup>
Ir-192		6 10 <sup>11</sup>
Ir-192m		4 10 <sup>11</sup>
Ir-193m		4 10 <sup>12</sup>
Ir-194		1 10 <sup>12</sup>
Ir-194m		1 10 <sup>11</sup>
Ir-195		2 10 <sup>12</sup>
Ir-195m		2 10 <sup>12</sup>
<b>Iron</b>		
Fe-52		2 10 <sup>12</sup>
Fe-55		8 10 <sup>12</sup>
Fe-59		8 10 <sup>11</sup>
Fe-60		4 10 <sup>10</sup>
<b>Krypton</b>		
Kr-74	(gas)	5 10 <sup>13</sup>
Kr-76	(gas)	1 10 <sup>14</sup>
Kr-77	(gas)	6 10 <sup>13</sup>
Kr-79	(gas)	2 10 <sup>14</sup>
Kr-81	(gas)	7 10 <sup>15</sup>
Kr-81m	(gas)	5 10 <sup>14</sup>
Kr-83m	(gas)	3 10 <sup>16</sup>
Kr-85	(gas)	1 10 <sup>16</sup>
Kr-85m	(gas)	4 10 <sup>14</sup>
Kr-87	(gas)	7 10 <sup>13</sup>
Kr-88	(gas)	3 10 <sup>13</sup>
<b>Lanthanum</b>		
La-131		2 10 <sup>12</sup>

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<i>Radionuclide name, symbol</i>	<i>Radionuclide form</i>	<i>Quantity (Bq)</i>
La-132		2 10 <sup>12</sup>
La-135		2 10 <sup>14</sup>
La-137		2 10 <sup>12</sup>
La-138		2 10 <sup>11</sup>
La-140		2 10 <sup>12</sup>
La-141		1 10 <sup>12</sup>
La-142		1 10 <sup>12</sup>
La-143		7 10 <sup>11</sup>
<b>Lead</b>		
Pb-195m		2 10 <sup>12</sup>
Pb-198		4 10 <sup>12</sup>
Pb-199		6 10 <sup>12</sup>
Pb-200		3 10 <sup>12</sup>
Pb-201		8 10 <sup>12</sup>
Pb-202		6 10 <sup>11</sup>
Pb-202m		4 10 <sup>12</sup>
Pb-203		9 10 <sup>12</sup>
Pb-205		1 10 <sup>13</sup>
Pb-209		2 10 <sup>12</sup>
Pb-210		3 10 <sup>9</sup>
Pb-211		2 10 <sup>12</sup>
Pb-212		1 10 <sup>11</sup>
Pb-214		1 10 <sup>12</sup>
<b>Lutetium</b>		
Lu-169		6 10 <sup>12</sup>
Lu-170		3 10 <sup>12</sup>
Lu-171		4 10 <sup>12</sup>
Lu-172		3 10 <sup>12</sup>
Lu-173		2 10 <sup>12</sup>
Lu-174		1 10 <sup>12</sup>

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<i>Radionuclide name, symbol</i>	<i>Radionuclide form</i>	<i>Quantity (Bq)</i>
Lu-174m		3 10 <sup>12</sup>
Lu-176		3 10 <sup>11</sup>
Lu-176m		2 10 <sup>12</sup>
Lu-177		3 10 <sup>12</sup>
Lu-177m		3 10 <sup>11</sup>
Lu-178		1 10 <sup>12</sup>
Lu-178m		1 10 <sup>12</sup>
Lu-179		2 10 <sup>12</sup>
<b>Magnesium</b>		
Mg-28		5 10 <sup>12</sup>
<b>Manganese</b>		
Mn-51		1 10 <sup>12</sup>
Mn-52		2 10 <sup>12</sup>
Mn-52m		8 10 <sup>11</sup>
Mn-53		1 10 <sup>14</sup>
Mn-54		3 10 <sup>11</sup>
Mn-56		1 10 <sup>12</sup>
<b>Mendelevium</b>		
Md-257		9 10 <sup>11</sup>
Md-258		4 10 <sup>9</sup>
<b>Mercury</b>		
Hg-193	(organic)	3 10 <sup>12</sup>
Hg-193	(inorganic)	3 10 <sup>12</sup>
Hg-193	(vapour)	2 10 <sup>13</sup>
Hg-193m	(organic)	2 10 <sup>12</sup>
Hg-193m	(inorganic)	2 10 <sup>12</sup>
Hg-193m	(vapour)	6 10 <sup>12</sup>
Hg-194	(organic)	3 10 <sup>11</sup>
Hg-194	(inorganic)	1 10 <sup>12</sup>
Hg-194	(vapour)	6 10 <sup>11</sup>

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<i>Radionuclide name, symbol</i>	<i>Radionuclide form</i>	<i>Quantity (Bq)</i>
Hg-195	(organic)	5 10 <sup>12</sup>
Hg-195	(inorganic)	5 10 <sup>12</sup>
Hg-195	(vapour)	1 10 <sup>13</sup>
Hg-195m	(organic)	3 10 <sup>12</sup>
Hg-195m	(inorganic)	3 10 <sup>12</sup>
Hg-195m	(vapour)	3 10 <sup>12</sup>
Hg-197	(organic)	7 10 <sup>12</sup>
Hg-197	(inorganic)	7 10 <sup>12</sup>
Hg-197	(vapour)	5 10 <sup>12</sup>
Hg-197m	(organic)	2 10 <sup>12</sup>
Hg-197m	(inorganic)	2 10 <sup>12</sup>
Hg-197m	(vapour)	4 10 <sup>12</sup>
Hg-199m	(organic)	2 10 <sup>12</sup>
Hg-199m	(inorganic)	2 10 <sup>12</sup>
Hg-199m	(vapour)	1 10 <sup>14</sup>
Hg-203	(organic)	3 10 <sup>12</sup>
Hg-203	(inorganic)	3 10 <sup>12</sup>
Hg-203	(vapour)	3 10 <sup>12</sup>
<b>Molybdenum</b>		
Mo-90		2 10 <sup>12</sup>
Mo-93		2 10 <sup>12</sup>
Mo-93m		4 10 <sup>12</sup>
Mo-99		2 10 <sup>12</sup>
Mo-101		2 10 <sup>12</sup>
<b>Neodymium</b>		
Nd-136		4 10 <sup>12</sup>
Nd-138		5 10 <sup>13</sup>
Nd-139		2 10 <sup>12</sup>
Nd-139m		3 10 <sup>12</sup>
Nd-141		2 10 <sup>13</sup>

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Nd-147		2 10 <sup>12</sup>
Nd-149		2 10 <sup>12</sup>
Nd-151		1 10 <sup>12</sup>
<b>Neon</b>		
Ne-19	(gas)	6 10 <sup>13</sup>
<b>Neptunium</b>		
Np-232		3 10 <sup>12</sup>
Np-233		2 10 <sup>14</sup>
Np-234		5 10 <sup>12</sup>
Np-235		2 10 <sup>13</sup>
Np-236	(long lived isotope)	3 10 <sup>9</sup>
Np-236	(short lived isotope)	3 10 <sup>12</sup>
Np-237		5 10 <sup>8</sup>
Np-238		2 10 <sup>12</sup>
Np-239		1 10 <sup>12</sup>
Np-240		7 10 <sup>11</sup>
<b>Nickel</b>		
Ni-56		4 10 <sup>12</sup>
Ni-56	(carbonyl vapour)	1 10 <sup>13</sup>
Ni-57		2 10 <sup>12</sup>
Ni-57	(carbonyl vapour)	2 10 <sup>13</sup>
Ni-59		4 10 <sup>13</sup>
Ni-59	(carbonyl vapour)	2 10 <sup>13</sup>
Ni-63		1 10 <sup>13</sup>
Ni-63	(carbonyl vapour)	1 10 <sup>13</sup>
Ni-65		1 10 <sup>12</sup>
Ni-65	(carbonyl vapour)	4 10 <sup>13</sup>
Ni-66		5 10 <sup>12</sup>
Ni-66	(carbonyl vapour)	1 10 <sup>13</sup>
<b>Niobium</b>		

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Nb-88		7 10 <sup>11</sup>
Nb-89	(long lived isotope)	1 10 <sup>12</sup>
Nb-89	(short lived isotope)	8 10 <sup>11</sup>
Nb-90		2 10 <sup>12</sup>
Nb-93m		1 10 <sup>13</sup>
Nb-94		1 10 <sup>11</sup>
Nb-95		2 10 <sup>12</sup>
Nb-95m		2 10 <sup>12</sup>
Nb-96		2 10 <sup>12</sup>
Nb-97		2 10 <sup>12</sup>
Nb-98		1 10 <sup>12</sup>
<b>Nitrogen</b>		
N-13	(gas)	6 10 <sup>13</sup>
<b>Osmium</b>		
Os-180		1 10 <sup>13</sup>
Os-181		3 10 <sup>12</sup>
Os-182		6 10 <sup>12</sup>
Os-185		7 10 <sup>11</sup>
Os-189m		1 10 <sup>13</sup>
Os-191		4 10 <sup>12</sup>
Os-191m		7 10 <sup>12</sup>
Os-193		2 10 <sup>12</sup>
Os-194		2 10 <sup>11</sup>
<b>Palladium</b>		
Pd-100		7 10 <sup>12</sup>
Pd-101		8 10 <sup>12</sup>
Pd-103		4 10 <sup>13</sup>
Pd-107		3 10 <sup>13</sup>
Pd-109		2 10 <sup>12</sup>
<b>Phosphorus</b>		

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P-32		1 10 <sup>11</sup>
P-33		3 10 <sup>12</sup>
<b>Platinum</b>		
Pt-186		9 10 <sup>13</sup>
Pt-188		6 10 <sup>12</sup>
Pt-189		6 10 <sup>12</sup>
Pt-191		7 10 <sup>12</sup>
Pt-193		1 10 <sup>14</sup>
Pt-193m		3 10 <sup>12</sup>
Pt-195m		3 10 <sup>12</sup>
Pt-197		2 10 <sup>12</sup>
Pt-197m		2 10 <sup>12</sup>
Pt-199		2 10 <sup>12</sup>
Pt-200		2 10 <sup>12</sup>
<b>Plutonium</b>		
Pu-234		1 10 <sup>12</sup>
Pu-235		2 10 <sup>13</sup>
Pu-236		6 10 <sup>8</sup>
Pu-237		1 10 <sup>13</sup>
Pu-238		2 10 <sup>8</sup>
Pu-239		2 10 <sup>8</sup>
Pu-240		2 10 <sup>8</sup>
Pu-241		1 10 <sup>10</sup>
Pu-242		2 10 <sup>8</sup>
Pu-243		2 10 <sup>12</sup>
Pu-244		2 10 <sup>8</sup>
Pu-245		2 10 <sup>12</sup>
Pu-246		2 10 <sup>12</sup>
<b>Polonium</b>		
Po-203		3 10 <sup>12</sup>

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Po-205		7 10 <sup>12</sup>
Po-206		1 10 <sup>11</sup>
Po-207		8 10 <sup>12</sup>
Po-208		2 10 <sup>9</sup>
Po-209		2 10 <sup>9</sup>
Po-210		4 10 <sup>9</sup>
<b>Potassium</b>		
K-40		2 10 <sup>12</sup>
K-42		7 10 <sup>11</sup>
K-43		2 10 <sup>12</sup>
K-44		6 10 <sup>11</sup>
K-45		9 10 <sup>11</sup>
<b>Praseodymium</b>		
Pr-136		1 10 <sup>12</sup>
Pr-137		2 10 <sup>12</sup>
Pr-138m		2 10 <sup>12</sup>
Pr-139		7 10 <sup>12</sup>
Pr-142		1 10 <sup>12</sup>
Pr-142m		2 10 <sup>15</sup>
Pr-143		2 10 <sup>12</sup>
Pr-144		2 10 <sup>12</sup>
Pr-145		1 10 <sup>12</sup>
Pr-147		1 10 <sup>12</sup>
<b>Promethium</b>		
Pm-141		1 10 <sup>12</sup>
Pm-143		9 10 <sup>11</sup>
Pm-144		2 10 <sup>11</sup>
Pm-145		3 10 <sup>12</sup>
Pm-146		2 10 <sup>11</sup>
Pm-147		4 10 <sup>12</sup>

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<i>Radionuclide name, symbol</i>	<i>Radionuclide form</i>	<i>Quantity (Bq)</i>
Pm-148		1 10 <sup>12</sup>
Pm-148m		5 10 <sup>11</sup>
Pm-149		2 10 <sup>12</sup>
Pm-150		1 10 <sup>12</sup>
Pm-151		2 10 <sup>12</sup>
<b>Protactinium</b>		
Pa-227		3 10 <sup>11</sup>
Pa-228		3 10 <sup>11</sup>
Pa-230		3 10 <sup>10</sup>
Pa-231		2 10 <sup>8</sup>
Pa-232		2 10 <sup>12</sup>
Pa-233		2 10 <sup>12</sup>
Pa-234		5 10 <sup>11</sup>
<b>Radium</b>		
Ra-223		3 10 <sup>9</sup>
Ra-224		7 10 <sup>9</sup>
Ra-225		3 10 <sup>9</sup>
Ra-226		2 10 <sup>9</sup>
Ra-227		2 10 <sup>12</sup>
Ra-228		1 10 <sup>9</sup>
<b>Rhenium</b>		
Re-177		2 10 <sup>12</sup>
Re-178		2 10 <sup>12</sup>
Re-181		3 10 <sup>12</sup>
Re-182	(long lived isotope)	2 10 <sup>12</sup>
Re-182	(short lived isotope)	4 10 <sup>12</sup>
Re-184		1 10 <sup>12</sup>
Re-184m		7 10 <sup>11</sup>
Re-186		2 10 <sup>12</sup>
Re-186m		1 10 <sup>12</sup>

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Re-187		5 10 <sup>14</sup>
Re-188		1 10 <sup>12</sup>
Re-188m		3 10 <sup>12</sup>
Re-189		2 10 <sup>12</sup>
<b>Rhodium</b>		
Rh-99		4 10 <sup>12</sup>
Rh-99m		9 10 <sup>12</sup>
Rh-100		4 10 <sup>12</sup>
Rh-101		7 10 <sup>11</sup>
Rh-101m		2 10 <sup>13</sup>
Rh-102		1 10 <sup>11</sup>
Rh-102m		6 10 <sup>11</sup>
Rh-103m		3 10 <sup>15</sup>
Rh-105		2 10 <sup>12</sup>
Rh-106m		2 10 <sup>12</sup>
Rh-107		2 10 <sup>12</sup>
<b>Rubidium</b>		
Rb-79		1 10 <sup>12</sup>
Rb-81		2 10 <sup>12</sup>
Rb-81m		4 10 <sup>12</sup>
Rb-82m		3 10 <sup>12</sup>
Rb-83		1 10 <sup>12</sup>
Rb-84		1 10 <sup>12</sup>
Rb-86		2 10 <sup>11</sup>
Rb-87		4 10 <sup>12</sup>
Rb-88		5 10 <sup>11</sup>
Rb-89		9 10 <sup>11</sup>
<b>Ruthenium</b>		
Ru-94		1 10 <sup>14</sup>
Ru-94	(tetroxide vapour)	1 10 <sup>14</sup>

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Ru-97		$3 \cdot 10^{13}$
Ru-97	(tetroxide vapour)	$1 \cdot 10^{14}$
Ru-103		$2 \cdot 10^{12}$
Ru-103	(tetroxide vapour)	$1 \cdot 10^{13}$
Ru-105		$2 \cdot 10^{12}$
Ru-105	(tetroxide vapour)	$6 \cdot 10^{13}$
Ru-106		$3 \cdot 10^{11}$
Ru-106	(tetroxide vapour)	$8 \cdot 10^{11}$
<b>Samarium</b>		
Sm-141		$1 \cdot 10^{12}$
Sm-141m		$2 \cdot 10^{12}$
Sm-142		$9 \cdot 10^{12}$
m-145		$3 \cdot 10^{12}$
Sm-146		$2 \cdot 10^9$
Sm-147		$3 \cdot 10^9$
Sm-151		$6 \cdot 10^{12}$
Sm-153		$2 \cdot 10^{12}$
Sm-155		$2 \cdot 10^{12}$
Sm-156		$2 \cdot 10^{12}$
<b>Scandium</b>		
Sc-43		$2 \cdot 10^{12}$
Sc-44		$2 \cdot 10^{12}$
Sc-44m		$9 \cdot 10^{12}$
Sc-46		$3 \cdot 10^{11}$
Sc-47		$3 \cdot 10^{12}$
Sc-48		$2 \cdot 10^{12}$
Sc-49		$1 \cdot 10^{12}$
<b>Selenium</b>		
Se-70		$2 \cdot 10^{12}$
Se-73		$2 \cdot 10^{12}$

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Se-73m		2 10 <sup>12</sup>
Se-75		2 10 <sup>11</sup>
Se-79		5 10 <sup>10</sup>
Se-81		2 10 <sup>12</sup>
Se-81m		4 10 <sup>12</sup>
Se-83		2 10 <sup>12</sup>
<b>Silicon</b>		
Si-31		2 10 <sup>12</sup>
Si-32		2 10 <sup>11</sup>
<b>Silver</b>		
Ag-102		1 10 <sup>12</sup>
Ag-103		2 10 <sup>12</sup>
Ag-104		3 10 <sup>12</sup>
Ag-104m		2 10 <sup>12</sup>
Ag-105		2 10 <sup>12</sup>
Ag-106		2 10 <sup>12</sup>
Ag-106m		2 10 <sup>12</sup>
Ag-108m		1 10 <sup>11</sup>
Ag-110m		3 10 <sup>10</sup>
Ag-111		2 10 <sup>12</sup>
Ag-112		7 10 <sup>11</sup>
Ag-115		9 10 <sup>11</sup>
<b>Sodium</b>		
Na-22		1 10 <sup>11</sup>
Na-24		2 10 <sup>12</sup>
<b>Strontium</b>		
Sr-80		1 10 <sup>14</sup>
Sr-81		9 10 <sup>11</sup>
Sr-82		2 10 <sup>12</sup>
Sr-83		3 10 <sup>12</sup>

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Sr-85		1 10 <sup>12</sup>
Sr-85m		3 10 <sup>13</sup>
Sr-87m		7 10 <sup>12</sup>
Sr-89		1 10 <sup>12</sup>
Sr-90		8 10 <sup>10</sup>
Sr-91		2 10 <sup>12</sup>
Sr-92		2 10 <sup>12</sup>
<b>Sulphur</b>		
S-35	(inorganic)	1 10 <sup>12</sup>
S-35	(organic)	2 10 <sup>11</sup>
S-35	(carbon disulphide vapour)	2 10 <sup>13</sup>
S-35	(vapour)	2 10 <sup>14</sup>
S-35	(dioxide gas)	1 10 <sup>14</sup>
<b>Tantalum</b>		
Ta-172		2 10 <sup>12</sup>
Ta-173		2 10 <sup>12</sup>
Ta-174		2 10 <sup>12</sup>
Ta-175		2 10 <sup>12</sup>
Ta-176		3 10 <sup>12</sup>
Ta-177		1 10 <sup>13</sup>
Ta-178	(long lived isotope)	3 10 <sup>12</sup>
Ta-179		6 10 <sup>12</sup>
Ta-180		9 10 <sup>11</sup>
Ta-180m		6 10 <sup>12</sup>
Ta-182		3 10 <sup>11</sup>
Ta-182m		2 10 <sup>12</sup>
Ta-183		2 10 <sup>12</sup>
Ta-184		2 10 <sup>12</sup>
Ta-185		1 10 <sup>12</sup>
Ta-186		9 10 <sup>11</sup>

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<b>Technetium</b>		
Tc-93		5 10 <sup>13</sup>
Tc-93m		4 10 <sup>12</sup>
Tc-94		6 10 <sup>12</sup>
Tc-94m		1 10 <sup>12</sup>
Tc-95		4 10 <sup>13</sup>
Tc-95m		1 10 <sup>12</sup>
Tc-96		4 10 <sup>12</sup>
Tc-96m		2 10 <sup>13</sup>
Tc-97		9 10 <sup>12</sup>
Tc-97m		5 10 <sup>12</sup>
Tc-98		1 10 <sup>11</sup>
Tc-99		5 10 <sup>10</sup>
Tc-99m		1 10 <sup>13</sup>
Tc-101		2 10 <sup>12</sup>
Tc-104		6 10 <sup>11</sup>
<b>Tellurium</b>		
Te-116		6 10 <sup>12</sup>
Te-116	(vapour)	2 10 <sup>14</sup>
Te-121		4 10 <sup>12</sup>
Te-121	(vapour)	3 10 <sup>13</sup>
Te-121m		1 10 <sup>12</sup>
Te-121m	(vapour)	3 10 <sup>12</sup>
Te-123		6 10 <sup>12</sup>
Te-123	(vapour)	2 10 <sup>12</sup>
Te-123m		2 10 <sup>12</sup>
Te-123m	(vapour)	5 10 <sup>12</sup>
Te-125m		2 10 <sup>12</sup>
Te-125m	(vapour)	8 10 <sup>12</sup>
Te-127		2 10 <sup>12</sup>

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<i>Radionuclide name, symbol</i>	<i>Radionuclide form</i>	<i>Quantity (Bq)</i>
Te-127	(vapour)	2 10 <sup>14</sup>
Te-127m		1 10 <sup>12</sup>
Te-127m	(vapour)	2 10 <sup>12</sup>
Te-129		2 10 <sup>12</sup>
Te-129	(vapour)	4 10 <sup>14</sup>
Te-129m		1 10 <sup>12</sup>
Te-129m	(vapour)	3 10 <sup>12</sup>
Te-131		1 10 <sup>12</sup>
Te-131	(vapour)	1 10 <sup>14</sup>
Te-131m		2 10 <sup>12</sup>
Te-131m	(vapour)	5 10 <sup>12</sup>
Te-132		3 10 <sup>12</sup>
Te-132	(vapour)	2 10 <sup>12</sup>
Te-133		1 10 <sup>12</sup>
Te-133	(vapour)	7 10 <sup>13</sup>
Te-133m		1 10 <sup>12</sup>
Te-133m	(vapour)	2 10 <sup>13</sup>
Te-134		3 10 <sup>12</sup>
Te-134	(vapour)	7 10 <sup>13</sup>
<b>Terbium</b>		
Tb-147		2 10 <sup>12</sup>
Tb-149		2 10 <sup>12</sup>
Tb-150		2 10 <sup>12</sup>
Tb-151		4 10 <sup>12</sup>
Tb-153		7 10 <sup>12</sup>
Tb-154		4 10 <sup>12</sup>
Tb-155		1 10 <sup>13</sup>
Tb-156		3 10 <sup>12</sup>
Tb-156m	(long lived isotope)	1 10 <sup>13</sup>

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Tb-156m	(short lived isotope)	4 10 <sup>12</sup>
Tb-157		1 10 <sup>13</sup>
Tb-158		2 10 <sup>11</sup>
Tb-160		5 10 <sup>11</sup>
Tb-161		2 10 <sup>12</sup>
<b>Thallium</b>		
Tl-194		1 10 <sup>13</sup>
Tl-194m		2 10 <sup>12</sup>
Tl-195		4 10 <sup>12</sup>
Tl-197		5 10 <sup>12</sup>
Tl-198		7 10 <sup>12</sup>
Tl-198m		2 10 <sup>12</sup>
Tl-199		6 10 <sup>12</sup>
Tl-200		1 10 <sup>13</sup>
Tl-201		7 10 <sup>12</sup>
Tl-202		7 10 <sup>12</sup>
Tl-204		2 10 <sup>12</sup>
<b>Thorium</b>		
Th-226		4 10 <sup>11</sup>
Th-227		2 10 <sup>9</sup>
Th-228		6 10 <sup>8</sup>
Th-229		1 10 <sup>8</sup>
Th-230		2 10 <sup>8</sup>
Th-231		2 10 <sup>12</sup>
Th-232		2 10 <sup>8</sup>
Th-234		3 10 <sup>12</sup>
<b>Thulium</b>		
Tm-162		2 10 <sup>12</sup>
Tm-166		3 10 <sup>12</sup>
Tm-167		4 10 <sup>12</sup>

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<i>Radionuclide name, symbol</i>	<i>Radionuclide form</i>	<i>Quantity (Bq)</i>
Tm-170		2 10 <sup>12</sup>
Tm-171		1 10 <sup>13</sup>
Tm-172		2 10 <sup>12</sup>
Tm-173		2 10 <sup>12</sup>
Tm-175		2 10 <sup>12</sup>
<b>Tin</b>		
Sn-110		6 10 <sup>13</sup>
Sn-111		2 10 <sup>12</sup>
Sn-113		5 10 <sup>12</sup>
Sn-117m		3 10 <sup>12</sup>
Sn-119m		5 10 <sup>12</sup>
Sn-121		3 10 <sup>12</sup>
Sn-121m		4 10 <sup>12</sup>
Sn-123		2 10 <sup>12</sup>
Sn-123m		2 10 <sup>12</sup>
Sn-125		1 10 <sup>12</sup>
Sn-126		5 10 <sup>11</sup>
Sn-127		2 10 <sup>12</sup>
Sn-128		2 10 <sup>12</sup>
<b>Titanium</b>		
Ti-44		2 10 <sup>11</sup>
Ti-45		2 10 <sup>12</sup>
<b>Tungsten</b>		
W-176		5 10 <sup>12</sup>
W-177		3 10 <sup>12</sup>
W-178		6 10 <sup>13</sup>
W-179		1 10 <sup>13</sup>
W-181		1 10 <sup>13</sup>
W-185		4 10 <sup>12</sup>
W-187		2 10 <sup>12</sup>

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W-188		$3 \times 10^{12}$
<b>Uranium</b>		
U-230		$2 \times 10^9$
U-231		$7 \times 10^{12}$
U-232		$6 \times 10^8$
U-233		$3 \times 10^9$
U-234		$3 \times 10^9$
U-235		$3 \times 10^9$
U-236		$3 \times 10^9$
U-237		$2 \times 10^{12}$
U-238		$3 \times 10^9$
U-239		$2 \times 10^{12}$
U-240		$2 \times 10^{12}$
<b>Vanadium</b>		
V-47		$1 \times 10^{12}$
V-48		$1 \times 10^{12}$
V-49		$2 \times 10^{14}$
<b>Xenon</b>		
Xe-120	(gas)	$1 \times 10^{14}$
Xe-121	(gas)	$3 \times 10^{13}$
Xe-122	(gas)	$1 \times 10^{15}$
Xe-123	(gas)	$9 \times 10^{13}$
Xe-125	(gas)	$2 \times 10^{14}$
Xe-127	(gas)	$2 \times 10^{14}$
Xe-129m	(gas)	$2 \times 10^{15}$
Xe-131	(gas)	$4 \times 10^{15}$
Xe-133	(gas)	$1 \times 10^{15}$
Xe-133m	(gas)	$2 \times 10^{15}$
Xe-135	(gas)	$2 \times 10^{14}$
Xe-135m	(gas)	$1 \times 10^{14}$

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<i>Radionuclide name, symbol</i>	<i>Radionuclide form</i>	<i>Quantity (Bq)</i>
Xe-138	(gas)	5 10 <sup>13</sup>
<b>Ytterbium</b>		
Yb-162		1 10 <sup>13</sup>
Yb-166		8 10 <sup>12</sup>
Yb-167		4 10 <sup>12</sup>
Yb-169		3 10 <sup>12</sup>
Yb-175		4 10 <sup>12</sup>
Yb-177		2 10 <sup>12</sup>
Yb-178		2 10 <sup>12</sup>
<b>Yttrium</b>		
Y-86		2 10 <sup>12</sup>
Y-86m		1 10 <sup>13</sup>
Y-87		2 10 <sup>13</sup>
Y-88		2 10 <sup>11</sup>
Y-90		2 10 <sup>12</sup>
Y-90m		7 10 <sup>12</sup>
Y-91		2 10 <sup>12</sup>
Y-91m		2 10 <sup>13</sup>
Y-92		6 10 <sup>11</sup>
Y-93		8 10 <sup>11</sup>
Y-94		6 10 <sup>11</sup>
Y-95		6 10 <sup>11</sup>
<b>Zinc</b>		
Zn-62		1 10 <sup>13</sup>
Zn-63		1 10 <sup>12</sup>
Zn-65		5 10 <sup>10</sup>
Zn-69		2 10 <sup>12</sup>
Zn-69m		2 10 <sup>13</sup>
Zn-71m		2 10 <sup>12</sup>
Zn-72		3 10 <sup>12</sup>

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<b>Zirconium</b>		
Zr-86		2 10 <sup>13</sup>
Zr-88		1 10 <sup>12</sup>
Zr-89		4 10 <sup>12</sup>
Zr-93		8 10 <sup>11</sup>
Zr-95		8 10 <sup>11</sup>
Zr-97		2 10 <sup>12</sup>
Other radionuclides not listed above (see note)		4 10 <sup>7</sup>

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## Part II

### Quantity ratios for more than one radionuclide

1. For the purpose of regulation 3(2), 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 column of Part I  $Q_{lim}$ , namely—

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

2. In any case where the isotopic composition of a radioactive substance is not known or is only partially known, the quantity ratio for that substance shall be calculated by using the values specified in the appropriate column in Part I for ‘other radionuclides not listed above’ for any radionuclide that has not been identified or where the quantity 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 he may use that value.