

SCHEDULE 2

Regulation 3

Limits on quantities of radionuclides

PART 1

Quantities for individual radionuclides

<i>Radionuclide</i>	<i>Radionuclide form</i>	<i>Quantity in Becquerels</i>
Actinium		
Ac-224		$2 \cdot 10^{15}$
Ac-225		$3 \cdot 10^{13}$
Ac-226		$2 \cdot 10^{14}$
Ac-227		$4 \cdot 10^{11}$
Ac-228		$5 \cdot 10^{15}$
Aluminium		
Al-26		$7 \cdot 10^{14}$
Americium		
Am-237		$4 \cdot 10^{16}$
Am-238		$6 \cdot 10^{16}$
Am-239		$2 \cdot 10^{16}$
Am-240		$4 \cdot 10^{16}$
Am-241		$3 \cdot 10^{12}$
Am-242		$1 \cdot 10^{16}$
Am-242m		$3 \cdot 10^{12}$
Am-243		$3 \cdot 10^{12}$
Am-244		$2 \cdot 10^{16}$
Am-244m		$2 \cdot 10^{18}$
Am-245		$2 \cdot 10^{16}$
Am-246		$1 \cdot 10^{16}$
Am-246m		$2 \cdot 10^{16}$
Antimony		
Sb-115		$2 \cdot 10^{16}$
Sb-116		$2 \cdot 10^{16}$

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<i>Radionuclide</i>	<i>Radionuclide form</i>	<i>Quantity in Becquerels</i>
Sb-116m		$2 \cdot 10^{16}$
Sb-117		$1 \cdot 10^{17}$
Sb-118m		$7 \cdot 10^{16}$
Sb-119		$1 \cdot 10^{17}$
Sb-120	(long lived isotope)	$3 \cdot 10^{16}$
Sb-120	(short lived isotope)	$2 \cdot 10^{16}$
Sb-122		$2 \cdot 10^{16}$
Sb-124		$4 \cdot 10^{15}$
Sb-124m		$4 \cdot 10^{16}$
Sb-125		$4 \cdot 10^{15}$
Sb-126		$1 \cdot 10^{16}$
Sb-126m		$2 \cdot 10^{16}$
Sb-127		$2 \cdot 10^{16}$
Sb-128	(long lived isotope)	$2 \cdot 10^{16}$
Sb-128	(short lived isotope)	$1 \cdot 10^{16}$
Sb-129		$2 \cdot 10^{16}$
Sb-130		$1 \cdot 10^{16}$
Sb-131		$2 \cdot 10^{16}$
Argon		
Ar-37	(gas)	$4 \cdot 10^{21}$
Ar-39	(gas)	$2 \cdot 10^{20}$
Ar-41	(gas)	$4 \cdot 10^{17}$
Arsenic		
As-69		$7 \cdot 10^{15}$
As-70		$1 \cdot 10^{16}$
As-71		$3 \cdot 10^{16}$
As-72		$9 \cdot 10^{15}$
As-73		$8 \cdot 10^{16}$
As-74		$2 \cdot 10^{16}$
As-76		$9 \cdot 10^{15}$

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<i>Radionuclide</i>	<i>Radionuclide form</i>	<i>Quantity in Becquerels</i>
As-77		$2 \cdot 10^{16}$
As-78		$7 \cdot 10^{15}$
Astatine		
At-207		$4 \cdot 10^{16}$
At-211		$2 \cdot 10^{15}$
Barium		
Ba-126		$2 \cdot 10^{17}$
Ba-128		$6 \cdot 10^{17}$
Ba-131		$6 \cdot 10^{16}$
Ba-131m		$3 \cdot 10^{16}$
Ba-133		$4 \cdot 10^{15}$
Ba-133m		$2 \cdot 10^{16}$
Ba-135m		$2 \cdot 10^{16}$
Ba-139		$1 \cdot 10^{16}$
Ba-140		$2 \cdot 10^{16}$
Ba-141		$1 \cdot 10^{16}$
Ba-142		$2 \cdot 10^{16}$
Berkelium		
Bk-245		$3 \cdot 10^{16}$
Bk-246		$6 \cdot 10^{16}$
Bk-247		$3 \cdot 10^{12}$
Bk-249		$2 \cdot 10^{15}$
Bk-250		$2 \cdot 10^{16}$
Beryllium		
Be-7		$2 \cdot 10^{17}$
Be-10		$6 \cdot 10^{15}$
Bismuth		
Bi-200		$2 \cdot 10^{16}$
Bi-201		$2 \cdot 10^{16}$
Bi-202		$2 \cdot 10^{16}$
Bi-203		$4 \cdot 10^{16}$

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Bi-205		2 10 ¹⁶
Bi-206		2 10 ¹⁶
Bi-207		1 10 ¹⁵
Bi-210		2 10 ¹⁵
Bi-210m		6 10 ¹³
Bi-212		7 10 ¹⁵
Bi-213		7 10 ¹⁵
Bi-214		1 10 ¹⁶
Bromine		
Br-74		8 10 ¹⁵
Br-74m		6 10 ¹⁵
Br-75		2 10 ¹⁶
Br-76		1 10 ¹²
Br-77		4 10 ¹⁷
Br-80		1 10 ¹⁶
Br-80m		5 10 ¹⁶
Br-82		3 10 ¹⁶
Br-83		2 10 ¹⁶
Br-84		7 10 ¹⁵
Cadmium		
Cd-104		1 10 ¹⁷
Cd-107		4 10 ¹⁶
Cd-109		2 10 ¹⁶
Cd-113		2 10 ¹⁵
Cd-113m		1 10 ¹⁵
Cd-115		1 10 ¹⁶
Cd-115m		2 10 ¹⁶
Cd-117		2 10 ¹⁶
Cd-117m		2 10 ¹⁶
Caesium		

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<i>Radionuclide</i>	<i>Radionuclide form</i>	<i>Quantity in Becquerels</i>
Cs-125		$2 \cdot 10^{16}$
Cs-127		$1 \cdot 10^{17}$
Cs-129		$2 \cdot 10^{17}$
Cs-130		$2 \cdot 10^{16}$
Cs-131		$6 \cdot 10^{17}$
Cs-132		$9 \cdot 10^{16}$
Cs-134		$7 \cdot 10^{14}$
Cs-134m		$4 \cdot 10^{16}$
Cs-135		$9 \cdot 10^{15}$
Cs-135m		$8 \cdot 10^{16}$
Cs-136		$8 \cdot 10^{15}$
Cs-137		$1 \cdot 10^{15}$
Cs-138		$8 \cdot 10^{15}$
Calcium		
Ca-41		$3 \cdot 10^{17}$
Ca-45		$3 \cdot 10^{16}$
Ca-47		$2 \cdot 10^{16}$
Californium		
Cf-244		$2 \cdot 10^{16}$
Cf-246		$5 \cdot 10^{14}$
Cf-248		$2 \cdot 10^{13}$
Cf-249		$3 \cdot 10^{12}$
Cf-250		$7 \cdot 10^{12}$
Cf-251		$3 \cdot 10^{12}$
Cf-252		$1 \cdot 10^{13}$
Cf-253		$2 \cdot 10^{14}$
Cf-254		$4 \cdot 10^{12}$
Carbon		
C-11		$2 \cdot 10^{16}$
C-11	(vapour)	$1 \cdot 10^{18}$

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<i>Radionuclide</i>	<i>Radionuclide form</i>	<i>Quantity in Becquerels</i>
C-11	(dioxide gas)	$1 \cdot 10^{18}$
C-11	(monoxide gas)	$1 \cdot 10^{18}$
C-14		$3 \cdot 10^{16}$
C-14	(vapour)	$4 \cdot 10^{17}$
C-14	(dioxide gas)	$3 \cdot 10^{19}$
C-14	(monoxide gas)	$1 \cdot 10^{20}$
Cerium		
Ce-134		$1 \cdot 10^{17}$
Ce-135		$2 \cdot 10^{16}$
Ce-137		$2 \cdot 10^{17}$
Ce-137m		$2 \cdot 10^{16}$
Ce-139		$2 \cdot 10^{16}$
Ce-141		$2 \cdot 10^{16}$
Ce-143		$2 \cdot 10^{16}$
Ce-144		$3 \cdot 10^{15}$
Chlorine		
Cl-36		$2 \cdot 10^{16}$
Cl-38		$6 \cdot 10^{15}$
Cl-39		$1 \cdot 10^{16}$
Chromium		
Cr-48		$4 \cdot 10^{17}$
Cr-49		$2 \cdot 10^{16}$
Cr-51		$3 \cdot 10^{17}$
Cobalt		
Co-55		$2 \cdot 10^{16}$
Co-56		$2 \cdot 10^{15}$
Co-57		$1 \cdot 10^{16}$
Co-58		$6 \cdot 10^{15}$
Co-58m		$2 \cdot 10^{17}$
Co-60		$6 \cdot 10^{14}$
Co-60m		$7 \cdot 10^{16}$

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<i>Radionuclide</i>	<i>Radionuclide form</i>	<i>Quantity in Becquerels</i>
Co-61		2 10 ¹⁶
Co-62m		9 10 ¹⁵
Copper		
Cu-60		1 10 ¹⁶
Cu-61		2 10 ¹⁶
Cu-64		4 10 ¹⁶
Cu-67		3 10 ¹⁶
Curium		
Cm-238		5 10 ¹⁶
Cm-240		7 10 ¹³
Cm-241		5 10 ¹⁵
Cm-242		4 10 ¹³
Cm-243		4 10 ¹²
Cm-244		4 10 ¹²
Cm-245		2 10 ¹²
Cm-246		2 10 ¹²
Cm-247		3 10 ¹²
Cm-248		7 10 ¹³
Cm-249		2 10 ¹⁶
Cm-250		1 10 ¹³
Dysprosium		
Dy-155		1 10 ¹⁷
Dy-157		1 10 ¹⁸
Dy-159		8 10 ¹⁶
Dy-165		2 10 ¹⁶
Dy-166		3 10 ¹⁶
Einsteinium		
Es-250		1 10 ¹⁷
Es-251		6 10 ¹⁶
Es-253		8 10 ¹³
Es-254		2 10 ¹³

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Es-254m		5 10 ¹⁴
Erbium		
Er-161		6 10 ¹⁶
Er-165		2 10 ¹⁸
Er-169		3 10 ¹⁶
Er-171		2 10 ¹⁶
Er-172		3 10 ¹⁶
Europium		
Eu-145		4 10 ¹⁶
Eu-146		3 10 ¹⁶
Eu-147		4 10 ¹⁶
Eu-148		4 10 ¹⁵
Eu-149		8 10 ¹⁶
Eu-150	(long lived isotope)	1 10 ¹⁵
Eu-150	(short lived isotope)	2 10 ¹⁶
Eu-152		1 10 ¹⁵
Eu-152m		2 10 ¹⁶
Eu-154		1 10 ¹⁵
Eu-155		2 10 ¹⁶
Eu-156		2 10 ¹⁶
Eu-157		2 10 ¹⁶
Eu-158		1 10 ¹⁶
Fermium		
Fm-252		7 10 ¹⁴
Fm-253		6 10 ¹⁴
Fm-254		3 10 ¹⁵
Fm-255		9 10 ¹⁴
Fm-257		3 10 ¹³
Fluorine		
F-18		2 10 ¹⁶
Francium		

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Fr-222		1 10 ¹⁶
Fr-223		2 10 ¹⁶
Gadolinium		
Gd-145		2 10 ¹⁶
Gd-146		2 10 ¹⁶
Gd-147		5 10 ¹⁶
Gd-148		9 10 ¹²
Gd-149		6 10 ¹⁶
Gd-151		5 10 ¹⁶
Gd-152		1 10 ¹³
Gd-153		2 10 ¹⁶
Gd-159		2 10 ¹⁶
Gallium		
Ga-65		1 10 ¹⁶
Ga-66		9 10 ¹⁵
Ga-67		5 10 ¹⁶
Ga-68		2 10 ¹⁶
Ga-70		1 10 ¹⁶
Ga-72		2 10 ¹⁶
Ga-73		2 10 ¹⁶
Germanium		
Ge-66		3 10 ¹⁶
Ge-67		7 10 ¹⁵
Ge-68		1 10 ¹⁶
Ge-69		2 10 ¹⁶
Ge-71		7 10 ¹⁸
Ge-75		2 10 ¹⁶
Ge-77		1 10 ¹⁶
Ge-78		2 10 ¹⁶
Gold		
Au-193		7 10 ¹⁶

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Au-194		1 10 ¹⁷
Au-195		3 10 ¹⁶
Au-198		2 10 ¹⁶
Au-198m		2 10 ¹⁶
Au-199		3 10 ¹⁶
Au-200		1 10 ¹⁶
Au-200m		2 10 ¹⁶
Au-201		2 10 ¹⁶
Hafnium		
Hf-170		4 10 ¹⁶
Hf-172		5 10 ¹⁵
Hf-173		6 10 ¹⁶
Hf-175		2 10 ¹⁶
Hf-177m		2 10 ¹⁶
Hf-178m		4 10 ¹⁴
Hf-179m		2 10 ¹⁶
Hf-180m		2 10 ¹⁶
Hf-181		1 10 ¹⁶
Hf-182		7 10 ¹⁴
Hf-182m		2 10 ¹⁶
Hf-183		2 10 ¹⁶
Hf-184		2 10 ¹⁶
Holmium		
Ho-155		2 10 ¹⁶
Ho-157		4 10 ¹⁶
Ho-159		6 10 ¹⁶
Ho-161		1 10 ¹⁷
Ho-162		5 10 ¹⁶
Ho-162m		4 10 ¹⁶
Ho-164		2 10 ¹⁶

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Ho-164m		$4 \cdot 10^{16}$
Ho-166		$1 \cdot 10^{16}$
Ho-166m		$8 \cdot 10^{14}$
Ho-167		$2 \cdot 10^{16}$
Hydrogen		
H-3	(tritiated water)	$7 \cdot 10^{17}$
H-3	(organically bound tritium)	$1 \cdot 10^{18}$
H-3	(tritiated water vapour)	$1 \cdot 10^{19}$
H-3	(gas)	$1 \cdot 10^{22}$
H-3	(tritiated methane gas)	$1 \cdot 10^{21}$
H-3	(organically bound tritium gas/vapour)	$6 \cdot 10^{18}$
Indium		
In-109		$7 \cdot 10^{16}$
In-110	(long lived isotope)	$2 \cdot 10^{17}$
In-110	(short lived isotope)	$1 \cdot 10^{16}$
In-111		$9 \cdot 10^{16}$
In-112		$2 \cdot 10^{16}$
In-113m		$5 \cdot 10^{16}$
In-114		$1 \cdot 10^{16}$
In-114m		$9 \cdot 10^{15}$
In-115		$6 \cdot 10^{14}$
In-115m		$3 \cdot 10^{16}$
In-116m		$2 \cdot 10^{16}$
In-117		$2 \cdot 10^{16}$
In-117m		$2 \cdot 10^{16}$
In-119m		$9 \cdot 10^{15}$
Iodine		
I-120		$6 \cdot 10^{15}$
I-120		$2 \cdot 10^{17}$
I-120		$2 \cdot 10^{17}$

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I-120m		$7 \cdot 10^{15}$
I-120m		$2 \cdot 10^{17}$
I-120m		$2 \cdot 10^{17}$
I-121		$4 \cdot 10^{16}$
I-121		$1 \cdot 10^{18}$
I-121		$1 \cdot 10^{18}$
I-123		$9 \cdot 10^{16}$
I-123		$5 \cdot 10^{17}$
I-123		$6 \cdot 10^{17}$
I-124		$2 \cdot 10^{16}$
I-124		$9 \cdot 10^{15}$
I-124		$1 \cdot 10^{16}$
I-125		$1 \cdot 10^{15}$
I-125		$1 \cdot 10^{16}$
I-125		$1 \cdot 10^{16}$
I-126		$8 \cdot 10^{15}$
I-126		$5 \cdot 10^{15}$
I-126		$6 \cdot 10^{11}$
I-128		$1 \cdot 10^{16}$
I-128		$2 \cdot 10^{18}$
I-128		$5 \cdot 10^{18}$
I-129		$1 \cdot 10^{14}$
I-129		$2 \cdot 10^{15}$
I-129		$2 \cdot 10^{15}$
I-130		$3 \cdot 10^{16}$
I-130		$5 \cdot 10^{16}$
I-130		$6 \cdot 10^{16}$
I-131		$9 \cdot 10^{14}$
I-131		$6 \cdot 10^{15}$
I-131		$7 \cdot 10^{15}$

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I-132		$2 \cdot 10^{16}$
I-132		$2 \cdot 10^{17}$
I-132		$3 \cdot 10^{17}$
I-132m		$2 \cdot 10^{16}$
I-132m		$4 \cdot 10^{17}$
I-132m		$5 \cdot 10^{17}$
I-133		$2 \cdot 10^{16}$
I-133		$2 \cdot 10^{16}$
I-133		$3 \cdot 10^{16}$
I-134		$2 \cdot 10^{16}$
I-134		$3 \cdot 10^{17}$
I-134		$4 \cdot 10^{17}$
I-135		$2 \cdot 10^{16}$
I-135		$9 \cdot 10^{16}$
I-135		$1 \cdot 10^{17}$
Iridium		
Ir-182		$1 \cdot 10^{16}$
Ir-184		$2 \cdot 10^{16}$
Ir-185		$3 \cdot 10^{16}$
Ir-186		$3 \cdot 10^{16}$
Ir-186		$2 \cdot 10^{16}$
Ir-187		$6 \cdot 10^{16}$
Ir-188		$5 \cdot 10^{16}$
Ir-189		$9 \cdot 10^{16}$
Ir-190		$2 \cdot 10^{16}$
Ir-190m		$3 \cdot 10^{16}$
Ir-190m		$1 \cdot 10^{17}$
Ir-192		$6 \cdot 10^{15}$
Ir-192m		$4 \cdot 10^{15}$
Ir-193m		$4 \cdot 10^{16}$

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Ir-194		1 10 ¹⁶
Ir-194m		1 10 ¹⁵
Ir-195		2 10 ¹⁶
Ir-195m		2 10 ¹⁶
Iron		
Fe-52		2 10 ¹⁶
Fe-55		8 10 ¹⁶
Fe-59		8 10 ¹⁵
Fe-60		4 10 ¹⁴
Krypton		
Kr-74	(gas)	5 10 ¹⁷
Kr-76	(gas)	1 10 ¹⁸
Kr-77	(gas)	6 10 ¹⁷
Kr-79	(gas)	2 10 ¹⁸
Kr-81	(gas)	7 10 ¹⁵
Kr-81m	(gas)	5 10 ¹⁸
Kr-83m	(gas)	3 10 ²⁰
Kr-85	(gas)	1 10 ²⁰
Kr-85m	(gas)	4 10 ¹⁸
Kr-87	(gas)	7 10 ¹⁷
Kr-88	(gas)	3 10 ¹⁷
Lanthanum		
La-131		2 10 ¹⁶
La-132		2 10 ¹⁶
La-135		2 10 ¹⁸
La-137		2 10 ¹⁶
La-138		2 10 ¹⁵
La-140		2 10 ¹⁶
La-141		1 10 ¹⁶
La-142		1 10 ¹⁶

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La-143		$7 \cdot 10^{15}$
Lead		
Pb-195m		$2 \cdot 10^{16}$
Pb-198		$4 \cdot 10^{16}$
Pb-199		$6 \cdot 10^{16}$
Pb-200		$3 \cdot 10^{16}$
Pb-201		$8 \cdot 10^{16}$
Pb-202		$6 \cdot 10^{15}$
Pb-202m		$4 \cdot 10^{16}$
Pb-203		$9 \cdot 10^{16}$
Pb-205		$1 \cdot 10^{17}$
Pb-209		$2 \cdot 10^{16}$
Pb-210		$3 \cdot 10^{13}$
Pb-211		$2 \cdot 10^{16}$
Pb-212		$1 \cdot 10^{15}$
Pb-214		$1 \cdot 10^{16}$
Lutetium		
Lu-169		$6 \cdot 10^{16}$
Lu-170		$3 \cdot 10^{16}$
Lu-171		$4 \cdot 10^{16}$
Lu-172		$3 \cdot 10^{16}$
Lu-173		$2 \cdot 10^{16}$
Lu-174		$1 \cdot 10^{16}$
Lu-174m		$3 \cdot 10^{16}$
Lu-176		$3 \cdot 10^{15}$
Lu-176m		$2 \cdot 10^{16}$
Lu-177		$3 \cdot 10^{16}$
Lu-177m		$3 \cdot 10^{15}$
Lu-178		$1 \cdot 10^{16}$
Lu-178m		$1 \cdot 10^{16}$

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Lu-179		2 10 ¹⁶
Magnesium		
Mg-28		5 10 ¹⁶
Manganese		
Mn-51		1 10 ¹⁶
Mn-52		2 10 ¹⁶
Mn-52m		8 10 ¹⁵
Mn-53		1 10 ¹⁸
Mn-54		3 10 ¹⁵
Mn-56		1 10 ¹⁶
Mendelevium		
Md-257		9 10 ¹⁵
Md-258		4 10 ¹³
Mercury		
Hg-193	(organic)	3 10 ¹⁶
Hg-193	(inorganic)	3 10 ¹⁶
Hg-193	(vapour)	2 10 ¹⁷
Hg-193m	(organic)	2 10 ¹⁶
Hg-193m	(inorganic)	2 10 ¹⁶
Hg-193m	(vapour)	6 10 ¹⁶
Hg-194	(organic)	3 10 ¹⁵
Hg-194	(inorganic)	1 10 ¹⁶
Hg-194	(vapour)	6 10 ¹⁵
Hg-195	(organic)	5 10 ¹⁶
Hg-195	(inorganic)	5 10 ¹⁶
Hg-195	(vapour)	1 10 ¹⁷
Hg-195m	(organic)	3 10 ¹⁶
Hg-195m	(inorganic)	3 10 ¹⁶
Hg-195m	(vapour)	3 10 ¹⁶
Hg-197	(organic)	7 10 ¹⁶
Hg-197	(inorganic)	7 10 ¹⁶

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Hg-197	(vapour)	$5 \cdot 10^{16}$
Hg-197m	(organic)	$2 \cdot 10^{16}$
Hg-197m	(inorganic)	$2 \cdot 10^{16}$
Hg-197m	(vapour)	$4 \cdot 10^{16}$
Hg-199m	(organic)	$2 \cdot 10^{16}$
Hg-199m	(inorganic)	$2 \cdot 10^{16}$
Hg-199m	(vapour)	$1 \cdot 10^{18}$
Hg-203	(organic)	$3 \cdot 10^{16}$
Hg-203	(inorganic)	$3 \cdot 10^{16}$
Hg-203	(vapour)	$3 \cdot 10^{16}$
Molybdenum		
Mo-90		$2 \cdot 10^{16}$
Mo-93		$2 \cdot 10^{16}$
Mo-93m		$4 \cdot 10^{16}$
Mo-99		$2 \cdot 10^{16}$
Mo-101		$2 \cdot 10^{16}$
Neodymium		
Nd-136		$4 \cdot 10^{16}$
Nd-138		$5 \cdot 10^{17}$
Nd-139		$2 \cdot 10^{16}$
Nd-139m		$3 \cdot 10^{16}$
Nd-141		$2 \cdot 10^{17}$
Nd-147		$2 \cdot 10^{16}$
Nd-149		$2 \cdot 10^{16}$
Nd-151		$1 \cdot 10^{16}$
Neon		
Ne-19	(gas)	$6 \cdot 10^{17}$
Neptunium		
Np-232		$3 \cdot 10^{16}$
Np-233		$2 \cdot 10^{18}$
Np-234		$5 \cdot 10^{16}$

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<i>Radionuclide</i>	<i>Radionuclide form</i>	<i>Quantity in Becquerels</i>
Np-235		2 10 ¹⁷
Np-236	(long lived isotope)	3 10 ¹³
Np-236	(short lived isotope)	3 10 ¹⁶
Np-237		5 10 ¹²
Np-238		2 10 ¹⁶
Np-239		1 10 ¹⁶
Np-240		7 10 ¹⁵
Nickel		
Ni-56		4 10 ¹²
Ni-56	(carbonyl vapour)	1 10 ¹⁷
Ni-57		2 10 ¹⁶
Ni-57	(carbonyl vapour)	2 10 ¹⁷
Ni-59		4 10 ¹⁷
Ni-59	(carbonyl vapour)	2 10 ¹⁷
Ni-63		1 10 ¹⁷
Ni-63	(carbonyl vapour)	1 10 ¹⁷
Ni-65		1 10 ¹⁶
Ni-65	(carbonyl vapour)	4 10 ¹⁷
Ni-66		5 10 ¹⁶
Ni-66	(carbonyl vapour)	1 10 ¹⁷
Niobium		
Nb-88		7 10 ¹⁵
Nb-89	(long lived isotope)	1 10 ¹⁶
Nb-89	(short lived isotope)	8 10 ¹⁵
Nb-90		2 10 ¹⁶
Nb-93m		1 10 ¹⁷
Nb-94		1 10 ¹⁵
Nb-95		2 10 ¹⁶
Nb-95m		2 10 ¹⁶
Nb-96		2 10 ¹⁶

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<i>Radionuclide</i>	<i>Radionuclide form</i>	<i>Quantity in Becquerels</i>
Nb-97		$2 \cdot 10^{16}$
Nb-98		$1 \cdot 10^{16}$
Nitrogen		
N-13	(gas)	$6 \cdot 10^{17}$
Osmium		
Os-180		$1 \cdot 10^{17}$
Os-181		$3 \cdot 10^{16}$
Os-182		$6 \cdot 10^{16}$
Os-185		$7 \cdot 10^{15}$
Os-189m		$1 \cdot 10^{17}$
Os-191		$4 \cdot 10^{16}$
Os-191m		$7 \cdot 10^{16}$
Os-193		$2 \cdot 10^{16}$
Os-194		$2 \cdot 10^{15}$
Palladium		
Pd-100		$7 \cdot 10^{16}$
Pd-101		$8 \cdot 10^{16}$
Pd-103		$4 \cdot 10^{17}$
Pd-107		$3 \cdot 10^{17}$
Pd-109		$2 \cdot 10^{16}$
Phosphorus		
P-32		$1 \cdot 10^{15}$
P-33		$3 \cdot 10^{16}$
Platinum		
Pt-186		$9 \cdot 10^{17}$
Pt-188		$6 \cdot 10^{16}$
Pt-189		$6 \cdot 10^{16}$
Pt-191		$7 \cdot 10^{16}$
Pt-193		$1 \cdot 10^{18}$
Pt-193m		$3 \cdot 10^{16}$
Pt-195m		$3 \cdot 10^{16}$

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<i>Radionuclide</i>	<i>Radionuclide form</i>	<i>Quantity in Becquerels</i>
Pt-197		$2 \cdot 10^{16}$
Pt-197m		$2 \cdot 10^{16}$
Pt-199		$2 \cdot 10^{16}$
Pt-200		$2 \cdot 10^{16}$
Plutonium		
Pu-234		$1 \cdot 10^{16}$
Pu-235		$2 \cdot 10^{17}$
Pu-236		$6 \cdot 10^{12}$
Pu-237		$1 \cdot 10^{17}$
Pu-238		$2 \cdot 10^{12}$
Pu-239		$2 \cdot 10^{12}$
Pu-240		$2 \cdot 10^{12}$
Pu-241		$1 \cdot 10^{14}$
Pu-242		$2 \cdot 10^{12}$
Pu-243		$2 \cdot 10^{16}$
Pu-244		$2 \cdot 10^{12}$
Pu-245		$2 \cdot 10^{16}$
Pu-246		$2 \cdot 10^{16}$
Polonium		
Po-203		$3 \cdot 10^{16}$
Po-205		$7 \cdot 10^{16}$
Po-206		$1 \cdot 10^{15}$
Po-207		$8 \cdot 10^{16}$
Po-208		$2 \cdot 10^{13}$
Po-209		$2 \cdot 10^{13}$
Po-210		$4 \cdot 10^{13}$
Potassium		
K-40		$2 \cdot 10^{16}$
K-42		$7 \cdot 10^{15}$
K-43		$2 \cdot 10^{16}$

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<i>Radionuclide</i>	<i>Radionuclide form</i>	<i>Quantity in Becquerels</i>
K-44		6 10 ¹⁵
K-45		9 10 ¹⁵
Praseodymium		
Pr-136		1 10 ¹⁶
Pr-137		2 10 ¹⁶
Pr-138m		2 10 ¹⁶
Pr-139		7 10 ¹⁶
Pr-142		1 10 ¹²
Pr-142m		2 10 ¹⁹
Pr-143		2 10 ¹⁶
Pr-144		2 10 ¹⁶
Pr-145		1 10 ¹⁶
Pr-147		1 10 ¹⁶
Promethium		
Pm-141		1 10 ¹²
Pm-143		9 10 ¹⁵
Pm-144		2 10 ¹⁵
Pm-145		3 10 ¹⁶
Pm-146		2 10 ¹⁵
Pm-147		4 10 ¹⁶
Pm-148		1 10 ¹⁶
Pm-148m		5 10 ¹⁵
Pm-149		2 10 ¹⁶
Pm-150		1 10 ¹²
Pm-151		2 10 ¹⁶
Protactinium		
Pa-227		3 10 ¹⁵
Pa-228		3 10 ¹⁵
Pa-230		3 10 ¹⁴
Pa-231		2 10 ¹²

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<i>Radionuclide</i>	<i>Radionuclide form</i>	<i>Quantity in Becquerels</i>
Pa-232		$2 \cdot 10^{16}$
Pa-233		$2 \cdot 10^{16}$
Pa-234		$5 \cdot 10^{15}$
Radium		
Ra-223		$3 \cdot 10^{13}$
Ra-224		$7 \cdot 10^{13}$
Ra-225		$3 \cdot 10^{13}$
Ra-226		$2 \cdot 10^{13}$
Ra-227		$2 \cdot 10^{16}$
Ra-228		$1 \cdot 10^{13}$
Rhenium		
Re-177		$2 \cdot 10^{16}$
Re-178		$2 \cdot 10^{16}$
Re-181		$3 \cdot 10^{16}$
Re-182	(long lived isotope)	$2 \cdot 10^{16}$
Re-182	(short lived isotope)	$4 \cdot 10^{16}$
Re-184		$1 \cdot 10^{16}$
Re-184m		$7 \cdot 10^{15}$
Re-186		$2 \cdot 10^{16}$
Re-186m		$1 \cdot 10^{16}$
Re-187		$5 \cdot 10^{18}$
Re-188		$1 \cdot 10^{16}$
Re-188m		$3 \cdot 10^{16}$
Re-189		$2 \cdot 10^{16}$
Rhodium		
Rh-99		$4 \cdot 10^{16}$
Rh-99m		$9 \cdot 10^{16}$
Rh-100		$4 \cdot 10^{16}$
Rh-101		$7 \cdot 10^{15}$
Rh-101m		$2 \cdot 10^{17}$

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<i>Radionuclide</i>	<i>Radionuclide form</i>	<i>Quantity in Becquerels</i>
Rh-102		1 10 ¹⁵
Rh-102m		6 10 ¹⁵
Rh-103m		3 10 ¹⁹
Rh-105		2 10 ¹⁶
Rh-106m		2 10 ¹⁶
Rh-107		2 10 ¹⁶
Rubidium		
Rb-79		1 10 ¹⁶
Rb-81		2 10 ¹⁶
Rb-81m		4 10 ¹⁶
Rb-82m		3 10 ¹⁶
Rb-83		1 10 ¹⁶
Rb-84		1 10 ¹⁶
Rb-86		2 10 ¹⁵
Rb-87		4 10 ¹⁶
Rb-88		5 10 ¹⁵
Rb-89		9 10 ¹⁵
Ruthenium		
Ru-94		1 10 ¹⁸
Ru-94	(tetroxide vapour)	1 10 ¹⁸
Ru-97		3 10 ¹⁷
Ru-97	(tetroxide vapour)	1 10 ¹⁸
Ru-103		2 10 ¹⁶
Ru-103	(tetroxide vapour)	1 10 ¹⁷
Ru-105		2 10 ¹⁶
Ru-105	(tetroxide vapour)	6 10 ¹⁷
Ru-106		3 10 ¹⁵
Ru-106	(tetroxide vapour)	8 10 ¹⁵
Samarium		
Sm-141		1 10 ¹⁶

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<i>Radionuclide</i>	<i>Radionuclide form</i>	<i>Quantity in Becquerels</i>
Sm-141m		$2 \cdot 10^{16}$
Sm-142		$9 \cdot 10^{16}$
Sm-145		$3 \cdot 10^{16}$
Sm-146		$2 \cdot 10^{13}$
Sm-147		$3 \cdot 10^{13}$
Sm-151		$6 \cdot 10^{16}$
Sm-153		$2 \cdot 10^{16}$
Sm-155		$2 \cdot 10^{16}$
Sm-156		$2 \cdot 10^{16}$
Scandium		
Sc-43		$2 \cdot 10^{16}$
Sc-44		$2 \cdot 10^{16}$
Sc-44m		$9 \cdot 10^{16}$
Sc-46		$3 \cdot 10^{15}$
Sc-47		$3 \cdot 10^{16}$
Sc-48		$2 \cdot 10^{16}$
Sc-49		$1 \cdot 10^{16}$
Selenium		
Se-70		$2 \cdot 10^{16}$
Se-73		$2 \cdot 10^{16}$
Se-73m		$2 \cdot 10^{16}$
Se-75		$2 \cdot 10^{15}$
Se-79		$5 \cdot 10^{14}$
Se-81		$2 \cdot 10^{16}$
Se-81m		$4 \cdot 10^{16}$
Se-83		$2 \cdot 10^{16}$
Silicon		
Si-31		$2 \cdot 10^{16}$
Si-32		$2 \cdot 10^{15}$
Silver		
Ag-102		$1 \cdot 10^{16}$

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<i>Radionuclide</i>	<i>Radionuclide form</i>	<i>Quantity in Becquerels</i>
Ag-103		2 10 ¹⁶
Ag-104		3 10 ¹⁶
Ag-104m		2 10 ¹⁶
Ag-105		2 10 ¹⁶
Ag-106		2 10 ¹⁶
Ag-106m		2 10 ¹⁶
Ag-108m		1 10 ¹⁵
Ag-110m		3 10 ¹⁴
Ag-111		2 10 ¹⁶
Ag-112		7 10 ¹⁵
Ag-115		9 10 ¹⁵
Sodium		
Na-22		1 10 ¹⁵
Na-24		2 10 ¹⁶
Strontium		
Sr-80		1 10 ¹⁸
Sr-81		9 10 ¹⁵
Sr-82		2 10 ¹⁶
Sr-83		3 10 ¹⁶
Sr-85		1 10 ¹⁶
Sr-85m		3 10 ¹⁷
Sr-87m		7 10 ¹⁶
Sr-89		1 10 ¹⁶
Sr-90		8 10 ¹⁴
Sr-91		2 10 ¹⁶
Sr-92		2 10 ¹⁶
Sulphur		
S-35	(inorganic)	1 10 ¹⁶
S-35	(organic)	2 10 ¹⁵
S-35	(carbon disulphide vapour)	2 10 ¹⁷

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<i>Radionuclide</i>	<i>Radionuclide form</i>	<i>Quantity in Becquerels</i>
S-35	(vapour)	$2 \cdot 10^{18}$
S-35	(dioxide gas)	$1 \cdot 10^{18}$
Tantalum		
Ta-172		$2 \cdot 10^{16}$
Ta-173		$2 \cdot 10^{16}$
Ta-174		$2 \cdot 10^{16}$
Ta-175		$2 \cdot 10^{16}$
Ta-176		$3 \cdot 10^{16}$
Ta-177		$1 \cdot 10^{17}$
Ta-178	(long lived isotope)	$3 \cdot 10^{16}$
Ta-179		$6 \cdot 10^{16}$
Ta-180		$9 \cdot 10^{15}$
Ta-180m		$6 \cdot 10^{16}$
Ta-182		$3 \cdot 10^{15}$
Ta-182m		$2 \cdot 10^{16}$
Ta-183		$2 \cdot 10^{16}$
Ta-184		$2 \cdot 10^{16}$
Ta-185		$1 \cdot 10^{16}$
Ta-186		$9 \cdot 10^{15}$
Technetium		
Tc-93		$5 \cdot 10^{17}$
Tc-93m		$4 \cdot 10^{16}$
Tc-94		$6 \cdot 10^{16}$
Tc-94m		$1 \cdot 10^{16}$
Tc-95		$4 \cdot 10^{17}$
Tc-95m		$1 \cdot 10^{16}$
Tc-96		$4 \cdot 10^{16}$
Tc-96m		$2 \cdot 10^{17}$
Tc-97		$9 \cdot 10^{16}$
Tc-97m		$5 \cdot 10^{16}$

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<i>Radionuclide</i>	<i>Radionuclide form</i>	<i>Quantity in Becquerels</i>
Tc-98		1 10 ¹⁵
Tc-99		5 10 ¹⁴
Tc-99m		1 10 ¹⁷
Tc-101		2 10 ¹⁶
Tc-104		6 10 ¹⁵
Tellurium		
Te-116		6 10 ¹⁶
Te-116	(vapour)	2 10 ¹⁸
Te-121		4 10 ¹⁶
Te-121	(vapour)	3 10 ¹⁷
Te-121m		1 10 ¹⁶
Te-121m	(vapour)	3 10 ¹⁶
Te-123		6 10 ¹⁶
Te-123	(vapour)	2 10 ¹⁶
Te-123m		2 10 ¹⁶
Te-123m	(vapour)	5 10 ¹⁶
Te-125m		2 10 ¹⁶
Te-125m	(vapour)	8 10 ¹⁶
Te-127		2 10 ¹⁶
Te-127	(vapour)	2 10 ¹⁸
Te-127m		1 10 ¹⁶
Te-127m	(vapour)	2 10 ¹⁶
Te-129		2 10 ¹⁶
Te-129	(vapour)	4 10 ¹⁸
Te-129m		1 10 ¹⁶
Te-129m	(vapour)	3 10 ¹⁶
Te-131		1 10 ¹⁶
Te-131	(vapour)	1 10 ¹⁸
Te-131m		2 10 ¹⁶
Te-131m	(vapour)	5 10 ¹⁶

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<i>Radionuclide</i>	<i>Radionuclide form</i>	<i>Quantity in Becquerels</i>
Te-132		3 10 ¹⁶
Te-132	(vapour)	2 10 ¹⁶
Te-133		1 10 ¹⁶
Te-133	(vapour)	7 10 ¹⁷
Te-133m		1 10 ¹⁶
Te-133m	(vapour)	2 10 ¹⁷
Te-134		3 10 ¹⁶
Te-134	(vapour)	7 10 ¹⁷
Terbium		
Tb-147		2 10 ¹⁶
Tb-149		2 10 ¹⁶
Tb-150		2 10 ¹⁶
Tb-151		4 10 ¹⁶
Tb-153		7 10 ¹⁶
Tb-154		4 10 ¹⁶
Tb-155		1 10 ¹⁷
Tb-156		3 10 ¹⁶
Tb-156m	(long lived isotope)	1 10 ¹⁷
Tb-156m	(short lived isotope)	4 10 ¹⁶
Tb-157		1 10 ¹⁷
Tb-158		2 10 ¹⁵
Tb-160		5 10 ¹⁵
Tb-161		2 10 ¹⁶
Thallium		
Tl-194		1 10 ¹⁷
Tl-194m		2 10 ¹⁶
Tl-195		4 10 ¹⁶
Tl-197		5 10 ¹⁶
Tl-198		7 10 ¹⁶
Tl-198m		2 10 ¹⁶

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<i>Radionuclide</i>	<i>Radionuclide form</i>	<i>Quantity in Becquerels</i>
Tl-199		$6 \cdot 10^{16}$
Tl-200		$1 \cdot 10^{17}$
Tl-201		$7 \cdot 10^{16}$
Tl-202		$7 \cdot 10^{16}$
Tl-204		$2 \cdot 10^{16}$
Thorium		
Th-226		$4 \cdot 10^{15}$
Th-227		$2 \cdot 10^{13}$
Th-228		$6 \cdot 10^{12}$
Th-229		$1 \cdot 10^{12}$
Th-230		$2 \cdot 10^{12}$
Th-231		$2 \cdot 10^{16}$
Th-232		$2 \cdot 10^{12}$
Th-234		$3 \cdot 10^{16}$
Thulium		
Tm-162		$2 \cdot 10^{16}$
Tm-166		$3 \cdot 10^{16}$
Tm-167		$4 \cdot 10^{16}$
Tm-170		$2 \cdot 10^{16}$
Tm-171		$1 \cdot 10^{17}$
Tm-172		$2 \cdot 10^{16}$
Tm-173		$2 \cdot 10^{16}$
Tm-175		$2 \cdot 10^{16}$
Tin		
Sn-110		$6 \cdot 10^{17}$
Sn-111		$2 \cdot 10^{16}$
Sn-113		$5 \cdot 10^{16}$
Sn-117m		$3 \cdot 10^{16}$
Sn-119m		$5 \cdot 10^{16}$
Sn-121		$3 \cdot 10^{16}$

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<i>Radionuclide</i>	<i>Radionuclide form</i>	<i>Quantity in Becquerels</i>
Sn-121m		4 10 ¹⁶
Sn-123		2 10 ¹⁶
Sn-123m		2 10 ¹⁶
Sn-125		1 10 ¹⁶
Sn-126		5 10 ¹⁵
Sn-127		2 10 ¹⁶
Sn-128		2 10 ¹⁶
Titanium		
Ti-44		2 10 ¹⁵
Ti-45		2 10 ¹⁶
Tungsten		
W-176		5 10 ¹⁶
W-177		3 10 ¹⁶
W-178		6 10 ¹⁷
W-179		1 10 ¹⁷
W-181		1 10 ¹⁷
W-185		4 10 ¹⁶
W-187		2 10 ¹⁶
W-188		3 10 ¹⁶
Uranium		
U-230		2 10 ¹³
U-231		7 10 ¹⁶
U-232		6 10 ¹²
U-233		3 10 ¹³
U-234		3 10 ¹³
U-235		3 10 ¹³
U-236		3 10 ¹³
U-237		2 10 ¹⁶
U-238		3 10 ¹³
U-239		2 10 ¹⁶

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<i>Radionuclide</i>	<i>Radionuclide form</i>	<i>Quantity in Becquerels</i>
U-240		$2 \cdot 10^{16}$
Vanadium		
V-47		$1 \cdot 10^{16}$
V-48		$1 \cdot 10^{16}$
V-49		$2 \cdot 10^{18}$
Xenon		
Xe-120	(gas)	$1 \cdot 10^{18}$
Xe-121	(gas)	$3 \cdot 10^{17}$
Xe-122	(gas)	$1 \cdot 10^{19}$
Xe-123	(gas)	$9 \cdot 10^{17}$
Xe-125	(gas)	$2 \cdot 10^{18}$
Xe-127	(gas)	$2 \cdot 10^{18}$
Xe-129m	(gas)	$2 \cdot 10^{19}$
Xe-131m	(gas)	$4 \cdot 10^{19}$
Xe-133	(gas)	$1 \cdot 10^{19}$
Xe-133m	(gas)	$2 \cdot 10^{19}$
Xe-135	(gas)	$2 \cdot 10^{18}$
Xe-135m	(gas)	$1 \cdot 10^{18}$
Xe-138	(gas)	$5 \cdot 10^{17}$
Ytterbium		
Yb-162		$1 \cdot 10^{17}$
Yb-166		$8 \cdot 10^{16}$
Yb-167		$4 \cdot 10^{16}$
Yb-169		$3 \cdot 10^{16}$
Yb-175		$4 \cdot 10^{16}$
Yb-177		$2 \cdot 10^{16}$
Yb-178		$2 \cdot 10^{16}$
Yttrium		
Y-86		$2 \cdot 10^{16}$
Y-86m		$1 \cdot 10^{17}$
Y-87		$2 \cdot 10^{17}$

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<i>Radionuclide</i>	<i>Radionuclide form</i>	<i>Quantity in Becquerels</i>
Y-88		$2 \cdot 10^{15}$
Y-90		$2 \cdot 10^{16}$
Y-90m		$7 \cdot 10^{16}$
Y-91		$2 \cdot 10^{16}$
Y-91m		$2 \cdot 10^{17}$
Y-92		$6 \cdot 10^{15}$
Y-93		$8 \cdot 10^{15}$
Y-94		$6 \cdot 10^{15}$
Y-95		$6 \cdot 10^{15}$
Zinc		
Zn-62		$1 \cdot 10^{17}$
Zn-63		$1 \cdot 10^{16}$
Zn-65		$5 \cdot 10^{14}$
Zn-69		$2 \cdot 10^{16}$
Zn-69m		$2 \cdot 10^{17}$
Zn-71m		$2 \cdot 10^{16}$
Zn-72		$3 \cdot 10^{16}$
Zirconium		
Zr-86		$2 \cdot 10^{17}$
Zr-88		$1 \cdot 10^{16}$
Zr-89		$4 \cdot 10^{16}$
Zr-93		$8 \cdot 10^{15}$
Zr-95		$8 \cdot 10^{15}$
Zr-97		$2 \cdot 10^{16}$
Other radionuclides not listed above		$4 \cdot 10^{11}$

PART 2

Quantity ratios for more than one radionuclide

1. For the purpose of regulation 3(6)(b), the quantity ratio for more than one radionuclide is the sum of the quotients, for each radionuclide present (i), of the quantity of that radionuclide Q_p divided

by the quantity of that radionuclide specified in the appropriate column of Part 1 of this Schedule Q_{lim} , namely—

$$\sum_{i=1}^n \frac{Q_p(i)}{Q_{lim}(i)}$$

Where n equals the total number of radionuclides.

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 must be calculated by using the values specified in the appropriate column in Part 1 for “other radionuclides not listed above” for any radionuclide that has not been identified or where the quantity of a radionuclide is uncertain.