

SCHEDULE 2

Regulation 3(1) and (2)

SPECIFIED QUANTITIES OF RADIONUCLIDES ON PREMISES

PART I

Commencement Information

II Sch. 2 Pt. I in force at 20.9.2001, see [reg. 1](#)

Table of radionuclides

Radionuclide name, symbol	Radionuclide form	Quantity (Bq)
Actinium		
Ac-224		2 10 ¹¹
Ac-225		3 10 ⁹
Ac-226		2 10 ¹⁰
Ac-227		4 10 ⁷
Ac-228		5 10 ¹¹
Aluminium		
Al-26		7 10 ¹⁰
Americium		
Am-237		4 10 ¹²
Am-238		6 10 ¹²
Am-239		2 10 ¹²
Am-240		4 10 ¹²
Am-241		3 10 ⁸
Am-242		1 10 ¹²
Am-242m		3 10 ⁸
Am-243		3 10 ⁸
Am-244		2 10 ¹²
Am-244m		2 10 ¹⁴
Am-245		2 10 ¹²
Am-246		1 10 ¹²

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Radionuclide name, symbol	Radionuclide form	Quantity (Bq)
Am-246m		2 10 ¹²
Antimony		
Sb-115		2 10 ¹²
Sb-116		2 10 ¹²
Sb-116m		2 10 ¹²
Sb-117		1 10 ¹³
Sb-118m		7 10 ¹²
Sb-119		1 10 ¹³
Sb-120	(long lived isotope)	3 10 ¹²
Sb-120	(short lived isotope)	2 10 ¹²
Sb-122		2 10 ¹²
Sb-124		4 10 ¹¹
Sb-124m		4 10 ¹²
Sb-125		4 10 ¹¹
Sb-126		1 10 ¹²
Sb-126m		2 10 ¹²
Sb-127		2 10 ¹²
Sb-128	(long lived isotope)	2 10 ¹²
Sb-128	(short lived isotope)	1 10 ¹²
Sb-129		2 10 ¹²
Sb-130		1 10 ¹²
Sb-131		2 10 ¹²
Argon		
Ar-37	(gas)	4 10 ¹⁷
Ar-39	(gas)	2 10 ¹⁶
Ar-41	(gas)	4 10 ¹³
Arsenic		
As-69		7 10 ¹¹
As-70		1 10 ¹²
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Radionuclide name, symbol	Radionuclide form	Quantity (Bq)
As-71		3 10 ¹²
As-72		9 10 ¹¹
As-73		8 10 ¹²
As-74		2 10 ¹²
As-76		9 10 ¹¹
As-77		2 10 ¹²
As-78		7 10 ¹¹
Astatine		
At-207		4 10 ¹²
At-211		2 10 ¹¹
Barium		
Ba-126		2 10 ¹³
Ba-128		1 10 ¹³
Ba-131		6 10 ¹²
Ba-131m		3 10 ¹²
Ba-133		4 10 ¹¹
Ba-133m		2 10 ¹²
Ba-135m		2 10 ¹²
Ba-139		11, ⁰¹²
Ba-140		2 10 ¹²
Ba-141		1 10 ¹²
Ba-142		2 10 ¹²
Berkelium		
Bk-245		3 10 ¹²
Bk-246		6 10 ¹²
Bk-247		3 10 ⁸
Bk-249		2 10 ¹¹
Bk-250		2 10 ¹²
Beryllium		

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Radionuclide name, symbol	Radionuclide form	Quantity (Bq)
Be-7		2 10 ¹³
Be-10		6 10 ¹¹
Bismuth		
Bi-200		2 10 ¹²
Bi-201		2 10 ¹²
Bi-202		3 10 ¹²
Bi-203		4 10 ¹²
Bi-205		2 10 ¹²
Bi-206		2 10 ¹²
Bi-207		1 10 ¹¹
Bi-210		2 10 ¹¹
Bi-210m		6 10 ⁹
Bi-212		7 10 ¹¹
Bi-213		7 10 ¹¹
Bi-214		1 10 ¹²
Bromine		
Br-74		8 10 ¹¹
Br-74m		6 10 ¹¹
Br-75		2 10 ¹²
Br-76		1 10 ¹²
Br-77		4 10 ¹³
Br-80		1 10 ¹²
Br-80m		5 10 ¹²
Br-82		3 10 ¹²
Br-83		2 10 ¹²
Br-84		7 10 ¹¹
Cadmium		
Cd-104		1 10 ¹³
Cd-107		4 10 ¹²

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Radionuclide name, symbol	Radionuclide form	Quantity (Bq)
Cd-109		2 10 ¹²
Cd-113		2 10 ¹¹
Cd-113m		1 10 ¹¹
Cd-115		2 10 ¹²
Cd-115m		2 10 ¹²
Cd-117		2 10 ¹²
Cd-117m		2 10 ¹²
Caesium		
Cs-125		2 10 ¹²
Cs-127		1 10 ¹³
Cs-129		2 10 ¹³
Cs-130		2 10 ¹²
Cs-131		6 10 ¹³
Cs-132		9 10 ¹²
Cs-134		7 10 ¹⁰
Cs-134m		4 10 ¹²
Cs-135		9 10 ¹¹
Cs-135m		8 10 ¹²
Cs-136		8 10 ¹¹
Cs-137		1 10 ¹¹
Cs-138		8 10 ¹¹
Calcium		
Ca-41		3 10 ¹³
Ca-45		3 10 ¹²
Ca-47		2 10 ¹²
Californium		
Cf-244		2 10 ¹²
Cf-246		5 10 ¹⁰
Cf-248		2 10 ⁹

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Radionuclide name, symbol	Radionuclide form	Quantity (Bq)
Cf-249		3 10 ⁸
Cf-250		7 10 ⁸
Cf-251		3 10 ⁸
Cf-252		1 10 ⁹
Cf-253		2 10 ¹⁰
Cf-254		4 10 ⁸
Carbon		
C-11		2 10 ¹²
C-11	(vapour)	1 10 ¹⁴
C-11	(dioxide gas)	1 10 ¹⁴
C-11	(monoxide gas)	1 10 ¹⁴
C-14		3 10 ¹²
C-14	(vapour)	4 10 ¹³
C-14	(dioxide gas)	3 10 ¹⁵
C-14	(monoxide gas)	1 10 ¹⁶
Cerium		
Ce-134		1 10 ¹³
Ce-135		2 10 ¹²
Ce-137		2 10 ¹³
Ce-137m		2 10 ¹²
Ce-139		2 10 ¹²
Ce-141		2 10 ¹²
Ce-143		2 10 ¹²
Ce-144		3 10 ¹¹
Chlorine		
Cl-36		2 10 ¹²
Cl-38		6 10 ¹¹
Cl-39		1 10 ¹²
Chromium		

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Radionuclide name, symbol	Radionuclide form	Quantity (Bq)
Cr-48		4 10 ¹³
Cr-49		2 10 ¹²
Cr-51		3 10 ¹³
Cobalt		
Co-55		2 10 ¹²
Co-56		2 10 ¹¹
Co-57		1 10 ¹²
Co-58		6 10 ¹¹
Co-58m		2 10 ¹³
Co-60		6 10 ¹⁰
Co-60m		7 10 ¹²
Co-61		2 10 ¹²
Co-62m		9 10 ¹¹
Copper		
Cu-60		1 10 ¹²
Cu-61		2 10 ¹²
Cu-64		4 10 ¹²
Cu-67		3 10 ¹²
Curium		
Cm-238		5 10 ¹²
Cm-240		7 10 ⁹
Cm-241		5 10 ¹¹
Cm-242		4 10 ⁹
Cm-243		4 10 ⁸
Cm-244		4 10 ⁸
Cm-245		2 10 ⁸
Cm-246		2 10 ⁸
Cm-247		3 10 ⁸
Cm-248		7 10 ⁷

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Radionuclide name, symbol	Radionuclide form	Quantity (Bq)
Cm-249		2 10 ¹²
Cm-250		1 10 ⁷
Dysprosium		
Dy-155		1 10 ¹³
Dy-157		1 10 ¹⁴
Dy-159		8 10 ¹²
Dy-165		2 10 ¹²
Dy-166		3 10 ¹²
Einsteinium		
Es-250		1 10 ¹³
Es-251		6 10 ¹²
Es-253		8 10 ⁹
Es-254		2 10 ⁹
Es-254m		5 10 ¹⁰
Erbium		
Er-161		6 10 ¹²
Er-165		2 10 ¹⁴
Er-169		3 10 ¹²
Er-171		2 10 ¹²
Er-172		3 10 ¹²
Europium		
Eu-145		4 10 ¹²
Eu-146		3 10 ¹²
Eu-147		4 10 ¹²
Eu-148		4 10 ¹¹
Eu-149		8 10 ¹²
Eu-150	(long lived isotope)	1 10 ¹¹
Eu-150	(short lived isotope)	2 10 ¹²
Eu-152		1 10 ¹¹

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Radionuclide name, symbol	Radionuclide form	Quantity (Bq)
Eu-152m		2 10 ¹²
Eu-154		1 10 ¹¹
Eu-155		2 10 ¹²
Eu-156		2 10 ¹²
Eu-157		2 10 ¹²
Eu-158		1 10 ¹²
Fermium		
Fm-252		7 10 ¹⁰
Fm-253		6 10 ¹⁰
Fm-254		3 10 ¹¹
Fm-255		9 10 ¹⁰
Fm-257		3 10 ⁹
Fluorine		
F-18		2 10 ¹²
Francium		
Fr-222		1 10 ¹²
Fr-223		2 10 ¹²
Gadolinium		
Gd-145		2 10 ¹²
Gd-146		2 10 ¹²
Gd-147		5 10 ¹²
Gd-148		9 10 ⁸
Gd-149		6 10 ¹²
Gd-151		5 10 ¹²
Gd-152		1 10 ⁹
Gd-153		2 10 ¹²
Gd-159		2 10 ¹²
Gallium		
Ga-65		1 10 ¹²

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Radionuclide name, symbol	Radionuclide form	Quantity (Bq)
Ga-66		9 10 ¹¹
Ga-67		5 10 ¹²
Ga-68		2 10 ¹²
Ga-70		1 10 ¹²
Ga-72		2 10 ¹²
Ga-73		2 10 ¹²
Germanium		
Ge-66		3 10 ¹²
Ge-67		7 10 ¹¹
Ge-68		1 10 ¹²
Ge-69		2 10 ¹²
Ge-71		7 10 ¹⁴
Ge-75		2 10 ¹²
Ge-77		1 10 ¹²
Ge-78		2 10 ¹²
Gold		
Au-193		7 10 ¹²
Au-194		1 10 ¹³
Au-195		3 10 ¹²
Au-198		2 10 ¹²
Au-198m		2 10 ¹²
Au-199		3 10 ¹²
Au-200		1 10 ¹²
Au-200m		2 10 ¹²
Au-201		2 10 ¹²
Hafnium		
Hf-170		4 10 ¹²
Hf-172		5 10 ¹¹
Hf-173		6 10 ¹²

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Radionuclide name, symbol	Radionuclide form	Quantity (Bq)
Hf-175		2 10 ¹²
Hf-177m		2 10 ¹²
Hf-178m		4 10 ¹⁰
Hf-179m		2 10 ¹²
Hf-180m		2 10 ¹²
Hf-181		1 10 ¹²
Hf-182		7 10 ¹⁰
Hf-182m		2 10 ¹²
Hf-183		2 10 ¹²
Hf-184		2 10 ¹²
Holmium		
Ho-155		2 10 ¹²
Ho-157		4 10 ¹²
Ho-159		6 10 ¹²
Ho-161		1 10 ¹³
Ho-162		5 10 ¹²
Ho-162m		4 10 ¹²
Ho-164		2 10 ¹²
Ho-164m		4 10 ¹²
Ho-166		1 10 ¹²
Ho-166m		8 10 ¹⁰
Ho-167		2 10 ¹²
Hydrogen		
H-3	(tritiated water)	7 10 ¹³
H-3	(organically bound tritium)	1 10 ¹⁴
H-3	(tritiated water vapour)	1 10 ¹⁵
H-3	(gas)	1 10 ¹⁸
H-3	(tritiated methane gas)	1 10 ¹⁷

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Radionuclide name, symbol	Radionuclide form	Quantity (Bq)
H-3	(organically bound tritium gas/ vapour)	6 10 ¹⁴
Indium		
In-109		7 10 ¹²
In-110	(long lived isotope)	2 10 ¹³
In-110	(short lived isotope)	1 10 ¹²
In-111		9 10 ¹²
In-112		2 10 ¹²
In-113m		5 10 ¹²
In-114		1 10 ¹²
In-114m		9 10 ¹¹
In-115		6 10 ¹⁰
In-115m		3 10 ¹²
In-116m		2 10 ¹²
In-117		2 10 ¹²
In-117m		2 10 ¹²
In-119m		9 10 ¹¹
Iodine		
I-120		6 10 ¹¹
I-120	(elemental vapour)	2 10 ¹³
I-120	(methyl iodide vapour)	2 10 ¹³
I-120m		7 10 ¹¹
I-120m	(elemental vapour)	2 10 ¹³
I-120m	(methyl iodide vapour)	2 10 ¹³
I-121		4 10 ¹²
I-121	(elemental vapour)	1 10 ¹⁴
I-121	(methyl iodide vapour)	1 10 ¹⁴
I-123		9 10 ¹²
I-123	(elemental vapour)	5 10 ¹³
I-123	(methyl iodide vapour)	6 10 ¹³

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Radionuclide name, symbol	Radionuclide form	Quantity (Bq)
I-124		2 10 ¹²
I-124	(elemental vapour)	9 10 ¹¹
I-124	(methyl iodide vapour)	1 10 ¹²
I-125		1 10 ¹¹
I-125	(elemental vapour)	1 10 ¹²
I-125	(methyl iodide vapour)	1 10 ¹²
I-126		8 10 ¹¹
I-126	(elemental vapour)	5 10 ¹¹
I-126	(methyl iodide vapour)	6 10 ¹¹
I-128		1 10 ¹²
I-128	(elemental vapour)	2 10 ¹⁴
I-128	(methyl iodide vapour)	5 10 ¹⁴
I-129		1 10 ¹⁰
I-129	(elemental vapour)	2 10 ¹¹
I-129	(methyl iodide vapour)	2 10 ¹¹
I-130		3 10 ¹²
I-130	(elemental vapour)	5 10 ¹²
I-130	(methyl iodide vapour)	6 10 ¹²
I-131		9 10 ¹⁰
I-131	(elemental vapour)	6 10 ¹¹
I-131	(methyl iodide vapour)	7 10 ¹¹
I-132		2 10 ¹²
I-132	(elemental vapour)	2 10 ¹³
I-132	(methyl iodide vapour)	3 10 ¹³
I-132m		2 10 ¹²
I-132m	(elemental vapour)	4 10 ¹³
I-132m	(methyl iodide vapour)	5 10 ¹³
I-133		2 10 ¹²
I-133	(elemental vapour)	2 10 ¹²

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Radionuclide name, symbol	Radionuclide form	Quantity (Bq)
I-133	(methyl iodide vapour)	3 10 ¹²
I-134		2 10 ¹²
I-134	(elemental vapour)	3 10 ¹³
I-134	(methyl iodide vapour)	4 10 ¹³
I-135		2 10 ¹²
I-135	(elemental vapour)	9 10 ¹²
I-135	(methyl iodide vapour)	1 10 ¹³
Iridium		
Ir-182		1 10 ¹²
Ir-184		2 10 ¹²
Ir-185		3 10 ¹²
Ir-186	(long lived isotope)	3 10 ¹²
Ir-186	(short lived isotope)	2 10 ¹²
Ir-187		6 10 ¹²
Ir-188		5 10 ¹²
Ir-189		9 10 ¹²
Ir-190		2 10 ¹²
Ir-190m	(long lived isotope)	3 10 ¹²
Ir-190m	(short lived isotope)	1 10 ¹³
Ir-192		6 10 ¹¹
Ir-192m		4 10 ¹¹
Ir-193m		4 10 ¹²
Ir-194		1 10 ¹²
Ir-194m		1 10 ¹¹
Ir-195		2 10 ¹²
Ir-195m		2 10 ¹²
Iron		
Fe-52		2 10 ¹²
Fe-55		8 10 ¹²

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Fe-59		8 10 ¹¹
Fe-60		4 10 ¹⁰
Krypton		
Kr-74	(gas)	5 10 ¹³
Kr-76	(gas)	1 10 ¹⁴
Kr-77	(gas)	6 10 ¹³
Kr-79	(gas)	2 10 ¹⁴
Kr-81	(gas)	7 10 ¹⁵
Kr-81m	(gas)	5 10 ¹⁴
Kr-83m	(gas)	3 10 ¹⁶
Kr-85	(gas)	1 10 ¹⁶
Kr-85m	(gas)	4 10 ¹⁴
Kr-87	(gas)	7 10 ¹³
Kr-88	(gas)	3 10 ¹³
Lanthanum		
La-131		2 10 ¹²
La-132		2 10 ¹²
La-135		2 10 ¹⁴
La-137		2 10 ¹²
La-138		2 10 ¹¹
La-140		2 10 ¹²
La-141		1 10 ¹²
La-142		1 10 ¹²
La-143		7 10 ¹¹
Lead		
Pb-195m		2 10 ¹²
Pb-198		4 10 ¹²
Pb-199		6 10 ¹²
Pb-200		3 10 ¹²

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Pb-201		8 10 ¹²
Pb-202		6 10 ¹¹
Pb-202m		4 10 ¹²
Pb-203		9 10 ¹²
Pb-205		1 10 ¹³
Pb-209		2 10 ¹²
Pb-210		3 10 ⁹
Pb-211		2 10 ¹²
Pb-212		1 10 ¹¹
Pb-214		1 10 ¹²
Lutetium		
Lu-169		6 10 ¹²
Lu-170		3 10 ¹²
Lu-171		4 10 ¹²
Lu-172		3 10 ¹²
Lu-173		2 10 ¹²
Lu-174		1 10 ¹²
Lu-174m		3 10 ¹²
Lu-176		3 10 ¹¹
Lu-176m		2 10 ¹²
Lu-177		3 10 ¹²
Lu-177m		3 10 ¹¹
Lu-178		1 10 ¹²
Lu-178m		1 10 ¹²
Lu-179		2 10 ¹²
Magnesium		
Mg-28		5 10 ¹²
Manganese		
Mn-51		1 10 ¹²

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Mn-52		2 10 ¹²
Mn-52m		8 10 ¹¹
Mn-53		1 10 ¹⁴
Mn-54		3 10 ¹¹
Mn-56		1 10 ¹²
Mendelevium		
Md-257		9 10 ¹¹
Md-258		4 10 ⁹
Mercury		
Hg-193	(organic)	3 10 ¹²
Hg-193	(inorganic)	3 10 ¹²
Hg-193	(vapour)	2 10 ¹³
Hg-193m	(organic)	2 10 ¹²
Hg-193m	(inorganic)	2 10 ¹²
Hg-193m	(vapour)	6 10 ¹²
Hg-194	(organic)	3 10 ¹¹
Hg-194	(inorganic)	1 10 ¹²
Hg-194	(vapour)	6 10 ¹¹
Hg-195	(organic)	5 10 ¹²
Hg-195	(inorganic)	5 10 ¹²
Hg-195	(vapour)	1 10 ¹³
Hg-195m	(organic)	3 10 ¹²
Hg-195m	(inorganic)	3 10 ¹²
Hg-195m	(vapour)	3 10 ¹²
Hg-197	(organic)	7 10 ¹²
Hg-197	(inorganic)	7 10 ¹²
Hg-197	(vapour)	5 10 ¹²
Hg-197m	(organic)	2 10 ¹²
Hg-197m	(inorganic)	2 10 ¹²

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Radionuclide name, symbol	Radionuclide form	Quantity (Bq)
Hg-197m	(vapour)	4 10 ¹²
Hg-199m	(organic)	2 10 ¹²
Hg-199m	(inorganic)	2 10 ¹²
Hg-199m	(vapour)	1 10 ¹⁴
Hg-203	(organic)	3 10 ¹²
Hg-203	(inorganic)	3 10 ¹²
Hg-203	(vapour)	3 10 ¹²
Molybdenum		
Mo-90		2 10 ¹²
Mo-93		2 10 ¹²
Mo-93m		4 10 ¹²
Mo-99		2 10 ¹²
Mo-101		2 10 ¹²
Neodymium		
Nd-136		4 10 ¹²
Nd-138		5 10 ¹³
Nd-139		2 10 ¹²
Nd-139m		3 10 ¹²
Nd-141		2 10 ¹³
Nd-147		2 10 ¹²
Nd-149		2 10 ¹²
Nd-151		1 10 ¹²
Neon		
Ne-19	(gas)	6 10 ¹³
Neptunium		
Np-232		3 10 ¹²
Np-233		2 10 ¹⁴
Np-234		5 10 ¹²
Np-235		2 10 ¹³

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Radionuclide name, symbol	Radionuclide form	Quantity (Bq)
Np-236	(long lived isotope)	3 10 ⁹
Np-236	(short lived isotope)	3 10 ¹²
Np-237		5 10 ⁸
Np-238		2 10 ¹²
Np-239		1 10 ¹²
Np-240		7 10 ¹¹
Nickel		
Ni-56		4 10 ¹²
Ni-56	(carbonyl vapour)	1 10 ¹³
Ni-57		2 10 ¹²
Ni-57	(carbonyl vapour)	2 10 ¹³
Ni-59		4 10 ¹³
Ni-59	(carbonyl vapour)	2 10 ¹³
Ni-63		1 10 ¹³
Ni-63	(carbonyl vapour)	1 10 ¹³
Ni-65		1 10 ¹²
Ni-65	(carbonyl vapour)	4 10 ¹³
Ni-66		5 10 ¹²
Ni-66	(carbonyl vapour)	1 10 ¹³
Niobium		
Nb-88		7 10 ¹¹
Nb-89	(long lived isotope)	1 10 ¹²
Nb-89	(short lived isotope)	8 10 ¹¹
Nb-90		2 10 ¹²
Nb-93m		1 10 ¹³
Nb-94		1 10 ¹¹
Nb-95		2 10 ¹²
Nb-95m		2 10 ¹²
Nb-96		2 10 ¹²

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Radionuclide name, symbol	Radionuclide form	Quantity (Bq)
Nb-97		2 10 ¹²
Nb-98		1 10 ¹²
Nitrogen		
N-13	(gas)	6 10 ¹³
Osmium		
Os-180		1 10 ¹³
Os-181		3 10 ¹²
Os-182		6 10 ¹²
Os-185		7 10 ¹¹
Os-189m		1 10 ¹³
Os-191		4 10 ¹²
Os-191m		7 10 ¹²
Os-193		2 10 ¹²
Os-194		2 10 ¹¹
Palladium		
Pd-100		7 10 ¹²
Pd-101		8 10 ¹²
Pd-103		4 10 ¹³
Pd-107		3 10 ¹³
Pd-109		2 10 ¹²
Phosphorus		
P-32		1 10 ¹¹
P-33		3 10 ¹²
Platinum		
Pt-186		9 10 ¹³
Pt-188		6 10 ¹²
Pt-189		6 10 ¹²
Pt-191		7 10 ¹²
Pt-193		1 10 ¹⁴

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Radionuclide name, symbol	Radionuclide form	Quantity (Bq)
Pt-193m		3 10 ¹²
Pt-195m		3 10 ¹²
Pt-197		2 10 ¹²
Pt-197m		2 10 ¹²
Pt-199		2 10 ¹²
Pt-200		2 10 ¹²
Plutonium		
Pu-234		1 10 ¹²
Pu-235		2 10 ¹³
Pu-236		6 10 ⁸
Pu-237		1 10 ¹³
Pu-238		2 10 ⁸
Pu-239		2 10 ⁸
Pu-240		2 10 ⁸
Pu-241		1 10 ¹⁰
Pu-242		2 10 ⁸
Pu-243		2 10 ¹²
Pu-244		2 10 ⁸
Pu-245		2 10 ¹²
Pu-246		2 10 ¹²
Polonium		
Po-203		3 10 ¹²
Po-205		7 10 ¹²
Po-206		1 10 ¹¹
Po-207		8 10 ¹²
Po-208		2 10 ⁹
Po-209		2 10 ⁹
Po-210		4 10 ⁹
Potassium		
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Radionuclide name, symbol	Radionuclide form	Quantity (Bq)
K-40		2 10 ¹²
K-42		7 10 ¹¹
K-43		2 10 ¹²
K-44		6 10 ¹¹
K-45		9 10 ¹¹
Praseodymium		
Pr-136		1 10 ¹²
Pr-137		2 10 ¹²
Pr-138m		2 10 ¹²
Pr-139		7 10 ¹²
Pr-142		1 10 ¹²
Pr-142m		2 10 ¹⁵
Pr-143		2 10 ¹²
Pr-144		2 10 ¹²
Pr-145		1 10 ¹²
Pr-147		1 10 ¹²
Promethium		
Pm-141		1 10 ¹²
Pm-143		9 10 ¹¹
Pm-144		2 10 ¹¹
Pm-145		3 10 ¹²
Pm-146		2 10 ¹¹
Pm-147		4 10 ¹²
Pm-148		1 10 ¹²
Pm-148m		5 10 ¹¹
Pm-149		2 10 ¹²
Pm-150		1 10 ¹²
Pm-151		2 10 ¹²
Protactinium		
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Radionuclide name, symbol	Radionuclide form	Quantity (Bq)
Pa-227		3 10 ¹¹
Pa-228		3 10 ¹¹
Pa-230		3 10 ¹⁰
Pa-231		2 10 ⁸
Pa-232		2 10 ¹²
Pa-233		2 10 ¹²
Pa-234		5 10 ¹¹
Radium		
Ra-223		3 10 ⁹
Ra-224		7 10 ⁹
Ra-225		3 10 ⁹
Ra-226		2 10 ⁹
Ra-227		2 10 ¹²
Ra-228		1 10 ⁹
Rhenium		
Re-177		2 10 ¹²
Re-178		2 10 ¹²
Re-181		3 10 ¹²
Re-182	(long lived isotope)	2 10 ¹²
Re-182	(short lived isotope)	4 10 ¹²
Re-184		1 10 ¹²
Re-184m		7 10 ¹¹
Re-186		2 10 ¹²
Re-186m		1 10 ¹²
Re-187		5 10 ¹⁴
Re-188		1 10 ¹²
Re-188m		3 10 ¹²
Re-189		2 10 ¹²
Rhodium		
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Radionuclide name, symbol	Radionuclide form	Quantity (Bq)
Rh-99		4 10 ¹²
Rh-99m		9 10 ¹²
Rh-100		4 10 ¹²
Rh-101		7 10 ¹¹
Rh-101m		2 10 ¹³
Rh-102		1 10 ¹¹
Rh-102m		6 10 ¹¹
Rh-103m		3 10 ¹⁵
Rh-105		2 10 ¹²
Rh-106m		2 10 ¹²
Rh-107		2 10 ¹²
Rubidium		
Rb-79		1 10 ¹²
Rb-81		2 10 ¹²
Rb-81m		4 10 ¹²
Rb-82m		3 10 ¹²
Rb-83		1 10 ¹²
Rb-84		1 10 ¹²
Rb-86		2 10 ¹¹
Rb-87		4 10 ¹²
Rb-88		5 10 ¹¹
Rb-89		9 10 ¹¹
Ruthenium		
Ru-94		1 10 ¹⁴
Ru-94	(tetroxide vapour)	1 10 ¹⁴
Ru-97		3 10 ¹³
Ru-97	(tetroxide vapour)	1 10 ¹⁴
Ru-103		2 10 ¹²
Ru-103	(tetroxide vapour)	1 10 ¹³

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Radionuclide name, symbol	Radionuclide form	Quantity (Bq)
Ru-105		2 10 ¹²
Ru-105	(tetroxide vapour)	6 10 ¹³
Ru-106		3 10 ¹¹
Ru-106	(tetroxide vapour)	8 10 ¹¹
Samarium		
Sm-141		1 10 ¹²
Sm-141m		2 10 ¹²
Sm-142		9 10 ¹²
Sm-145		3 10 ¹²
Sm-146		2 10 ⁹
Sm-147		3 10 ⁹
Sm-151		6 10 ¹²
Sm-153		2 10 ¹²
Sm-155		2 10 ¹²
Sm-156		2 10 ¹²
Scandium		
Sc-43		2 10 ¹²
Sc-44		2 10 ¹²
Sc-44m		9 10 ¹²
Sc-46		3 10 ¹¹
Sc-47		3 10 ¹²
Sc-48		2 10 ¹²
Sc-49		1 10 ¹²
Selenium		
Se-70		2 10 ¹²
Se-73		2 10 ¹²
Se-73m		2 10 ¹²
Se-75		2 10 ¹¹
Se-79		5 10 ¹⁰

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Radionuclide name, symbol	Radionuclide form	Quantity (Bq)
Se-81		2 10 ¹²
Se-81m		4 10 ¹²
Se-83		2 10 ¹²
Silicon		
Si-31		2 10 ¹²
Si-32		2 10 ¹¹
Silver		
Ag-102		1 10 ¹²
Ag-103		2 10 ¹²
Ag-104		3 10 ¹²
Ag-104m		2 10 ¹²
Ag-105		2 10 ¹²
Ag-106		2 10 ¹²
Ag-106m		2 10 ¹²
Ag-108m		1 10 ¹¹
Ag-110m		3 10 ¹⁰
Ag-111		2 10 ¹²
Ag-112		7 10 ¹¹
Ag-115		9 10 ¹¹
Sodium		
Na-22		1 10 ¹¹
Na-24		2 10 ¹²
Strontium		
Sr-80		1 10 ¹⁴
Sr-81		9 10 ¹¹
Sr-82		2 10 ¹²
Sr-83		3 10 ¹²
Sr-85		1 10 ¹²
Sr-85m		3 10 ¹³

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Radionuclide name, symbol	Radionuclide form	Quantity (Bq)
Sr-87m		7 10 ¹²
Sr-89		1 10 ¹²
Sr-90		8 10 ¹⁰
Sr-91		2 10 ¹²
Sr-92		2 10 ¹²
Sulphur		
S-35	(inorganic)	1 10 ¹²
S-35	(organic)	2 10 ¹¹
S-35	(carbon disulphide vapour)	2 10 ¹³
S-35	(vapour)	2 10 ¹⁴
S-35	(dioxide gas)	1 10 ¹⁴
Tantalum		
Ta-172		2 10 ¹²
Ta-173		2 10 ¹²
Ta-174		2 10 ¹²
Ta-175		2 10 ¹²
Ta-176		3 10 ¹²
Ta-177		1 10 ¹³
Ta-178	(long lived isotope)	3 10 ¹²
Ta-179		6 10 ¹²
Ta-180		9 10 ¹¹
Ta-180m		6 10 ¹²
Ta-182		3 10 ¹¹
Ta-182m		2 10 ¹²
Ta-183		2 10 ¹²
Ta-184		2 10 ¹²
Ta-185		1 10 ¹²
Ta-186		9 10 ¹¹
Technetium		

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Radionuclide name, symbol	Radionuclide form	Quantity (Bq)
Tc-93		5 10 ¹³
Tc-93m		4 10 ¹²
Tc-94		6 10 ¹²
Tc-94m		1 10 ¹²
Tc-95		4 10 ¹³
Tc-95m		1 10 ¹²
Tc-96		4 10 ¹²
Tc-96m		2 10 ¹³
Tc-97		9 10 ¹²
Tc-97m		5 10 ¹²
Tc-98		1 10 ¹¹
Tc-99		5 10 ¹⁰
Tc-99m		1 10 ¹³
Tc-101		2 10 ¹²
Tc-104		6 10 ¹¹
Tellurium		
Te-116		6 10 ¹²
Te-116	(vapour)	2 10 ¹⁴
Te-121		4 10 ¹²
Te-121	(vapour)	3 10 ¹³
Te-121m		1 10 ¹²
Te-121m	(vapour)	3 10 ¹²
Te-123		6 10 ¹²
Te-123	(vapour)	2 10 ¹²
Te-123m		2 10 ¹²
Te-123m	(vapour)	5 10 ¹²
Te-125m		2 10 ¹²
Te-125m	(vapour)	8 10 ¹²
Te-127		2 10 ¹²

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

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Radionuclide name, symbol	Radionuclide form	Quantity (Bq)
Tb-156m	(short lived isotope)	4 10 ¹²
Tb-157		1 10 ¹³
Tb-158		2 10 ¹¹
Tb-160		5 10 ¹¹
Tb-161		2 10 ¹²
Thallium		
Tl-194		1 10 ¹³
Tl-194m		2 10 ¹²
Tl-195		4 10 ¹²
Tl-197		5 10 ¹²
Tl-198		7 10 ¹²
Tl-198m		2 10 ¹²
Tl-199		6 10 ¹²
Tl-200		1 10 ¹³
Tl-201		7 10 ¹²
Tl-202		7 10 ¹²
Tl-204		2 10 ¹²
Thorium		
Th-226		4 10 ¹¹
Th-227		2 10 ⁹
Th-228		6 10 ⁸
Th-229		1 10 ⁸
Th-230		2 10 ⁸
Th-231		2 10 ¹²
Th-232		2 10 ⁸
Th-234		3 10 ¹²
Thulium		
Tm-162		2 10 ¹²
Tm-166		3 10 ¹²

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Radionuclide name, symbol	Radionuclide form	Quantity (Bq)
Tm-167		4 10 ¹²
Tm-170		2 10 ¹²
Tm-171		1 10 ¹³
Tm-172		2 10 ¹²
Tm-173		2 10 ¹²
Tm-175		2 10 ¹²
Tin		
Sn-110		6 10 ¹³
Sn-111		2 10 ¹²
Sn-113		5 10 ¹²
Sn-117m		3 10 ¹²
Sn-119m		5 10 ¹²
Sn-121		3 10 ¹²
Sn-121m		4 10 ¹²
Sn-123		2 10 ¹²
Sn-123m		2 10 ¹²
Sn-125		1 10 ¹²
Sn-126		5 10 ¹¹
Sn-127		2 10 ¹²
Sn-128		2 10 ¹²
Titanium		
Ti-44		2 10 ¹¹
Ti-45		2 10 ¹²
Tungsten		
W-176		5 10 ¹²
W-177		3 10 ¹²
W-178		6 10 ¹³
W-179		1 10 ¹³
W-181		1 10 ¹³

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Radionuclide name, symbol	Radionuclide form	Quantity (Bq)
W-185		4 10 ¹²
W-187		2 10 ¹²
W-188		3 10 ¹²
Uranium		
U-230		2 10 ⁹
U-231		7 10 ¹²
U-232		6 10 ⁸
U-233		3 10 ⁹
U-234		3 10 ⁹
U-235		3 10 ⁹
U-236		3 10 ⁹
U-237		2 10 ¹²
U-238		3 10 ⁹
U-239		2 10 ¹²
U-240		2 10 ¹²
Vanadium		
V-47		1 10 ¹²
V-48		1 10 ¹²
V-49		2 10 ¹⁴
Xenon		
Xe-120	(gas)	1 10 ¹⁴
Xe-121	(gas)	3 10 ¹³
Xe-122	(gas)	1 10 ¹⁵
Xe-123	(gas)	9 10 ¹³
Xe-125	(gas)	2 10 ¹⁴
Xe-127	(gas)	2 10 ¹⁴
Xe-129m	(gas)	2 10 ¹⁵
Xe-131m	(gas)	4 10 ¹⁵
Xe-133	(gas)	1 10 ¹⁵

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Radionuclide name, symbol	Radionuclide form	Quantity (Bq)
Xe-133m	(gas)	2 10 ¹⁵
Xe-135	(gas)	2 10 ¹⁴
Xe-135m	(gas)	1 10 ¹⁴
Xe-138	(gas)	5 10 ¹³
Ytterbium		
Yb-162		1 10 ¹³
Yb-166		8 10 ¹²
Yb-167		4 10 ¹²
Yb-169		3 10 ¹²
Yb-175		4 10 ¹²
Yb-177		2 10 ¹²
Yb-178		2 10 ¹²
Yttrium		
Y-86		2 10 ¹²
Y-86m		1 10 ¹³
Y-87		2 10 ¹³
Y-88		2 10 ¹¹
Y-90		2 10 ¹²
Y-90m		7 10 ¹²
Y-91		2 10 ¹²
Y-91m		2 10 ¹³
Y-92		6 10 ¹¹
Y-93		8 10 ¹¹
Y-94		6 10 ¹¹
Y-95		6 10 ¹¹
Zinc		
Zn-62		1 10 ¹³
Zn-63		1 10 ¹²
Zn-65		5 10 ¹⁰

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Radionuclide name, symbol	Radionuclide form	Quantity (Bq)
Zn-69		2 10 ¹²
Zn-69m		2 10 ¹³
Zn-71m		2 10 ¹²
Zn-72		3 10 ¹²
Zirconium		
Zr-86		2 10 ¹³
Zr-88		1 10 ¹²
Zr-89		4 10 ¹²
Zr-93		8 10 ¹¹
Zr-95		8 10 ¹¹
Zr-97		2 10 ¹²
Other radionuclides not listed above (see note)		4 10 ⁷

Note: In the case of radionuclides not specified elsewhere in this Part, the quantity specified in this entry is to be used unless the Executive has approved some other quantity for that radionuclide.

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 of this Schedule Q_{lim} , namely—

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

Commencement Information

I2 Sch. 2 Pt. II para. 1 in force at 20.9.2001, see reg. 1

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 1 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.

Commencement Information

I3 Sch. 2 Pt. II para. 2 in force at 20.9.2001, see reg. 1

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Changes and effects yet to be applied to :

- Sch. 2 Pt. 1 column 3 word substituted by [S.I. 2002/2099 Sch. 4 para. 8](#)
- Sch. 2 Pt. 2 para. 2 words substituted by [S.I. 2002/2099 Sch. 4 para. 9](#)
- Regulations revoked by [S.I. 2019/703 reg. 27](#)
- defn(s) appl by [S.I. 2005/2042 reg 12\(e\)](#)

Changes and effects yet to be applied to the whole Instrument associated Parts and Chapters:

Whole provisions yet to be inserted into this Instrument (including any effects on those provisions):

- reg. 2(9A) added by [S.I. 2005/2560 reg. 2\(3\)](#)
- reg. 3(6) added by [S.I. 2004/568 Sch. 13 para. 11\(3\)\(e\)](#)
- reg. 3(6) substituted by [S.I. 2007/1573 Sch. 8](#)
- reg. 7(6)(aa)(ab) substituted for word by [S.I. 2013/235 Sch. 2 para. 47\(3\)](#)
- reg. 7(6)(ab) words inserted by [S.I. 2018/378 Sch. para. 20\(d\)](#)
- reg. 8(7)(aa) substituted for word by [S.I. 2013/235 Sch. 2 para. 47\(4\)](#)
- reg. 8(7)(aa) words inserted by [S.I. 2018/378 Sch. para. 20\(d\)](#)
- reg. 9(12)(aa)(ab) substituted for word by [S.I. 2013/235 Sch. 2 para. 47\(5\)](#)
- reg. 9(12)(ab) words inserted by [S.I. 2018/378 Sch. para. 20\(d\)](#)
- reg. 18A inserted by [S.I. 2006/557 Sch. para. 10](#)
- reg. 18A heading words substituted by [S.I. 2015/1682 Sch. para. 10\(f\)](#)
- reg. 18A words substituted by [S.I. 2015/1682 Sch. para. 10\(f\)\(i\)](#)
- reg. 18A(2)(aa) inserted by [S.I. 2014/469 Sch. 3 para. 105\(2\)](#)
- reg. 18B inserted by [S.I. 2014/469 Sch. 3 para. 105\(3\)](#)
- reg. 18B(2)(b) words substituted by [S.I. 2015/1682 Sch. para. 10\(f\)\(ii\)](#)