

SCHEDULE 4

Regulation 3(1) and (3)

Specified Quantities for the Transport of Radionuclides**Part I****Table of Radionuclides**

<i>Radionuclide name, symbol</i>	<i>Radionuclide form</i>	<i>Quantity (Bq)</i>
Actinium		
Ac-225	(see note 1)	6 10 ⁹
Ac-227	(see note 1)	9 10 ⁷
Ac-228		5 10 ¹¹
Aluminium		
Al-26		1 10 ¹¹
Americium		
Am-241		1 10 ⁹
Am-242m	(see note 1)	1 10 ⁹
Am-243	(see note 1)	1 10 ⁹
Antimony		
Sb-122		4 10 ¹¹
Sb-124		6 10 ¹¹
Sb-125		1 10 ¹²
Sb-126		4 10 ¹¹
Argon		
Ar-37		4 10 ¹³
Ar-39		2 10 ¹³
Ar-41		3 10 ¹¹
Arsenic		
As-72		3 10 ¹¹

Note 1: Values include contributions from daughter nuclides with half-lives less than 10 days.

Note 2: These values apply only to compounds of uranium that take the chemical form of UF₆, UO₂F₂ and UO₂(NO₃)₂ in both normal and accident conditions of transport

Note 3: These values apply only to compounds of uranium that take the chemical form of O₃, UF₄, UCL₄ and hexavalent compounds other than those specified in both normal and accident conditions of transport.

Note 4: These values apply to all compounds of uranium other than those specified in 2 and 3 above.

Note 5: These values apply to *unirradiated uranium* only.

Note 6: 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.

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<i>Radionuclide name, symbol</i>	<i>Radionuclide form</i>	<i>Quantity (Bq)</i>
As-73		4 10 ¹³
As-74		9 10 ¹¹
As-76		3 10 ¹¹
As-77		7 10 ¹¹
Astatine		
At-211	(see note 1)	5 10 ¹¹
Barium		
Ba-131	(see note 1)	2 10 ¹²
Ba-133		3 10 ¹²
Ba-133m		6 10 ¹¹
Ba-140	(see note 1)	3 10 ¹¹
Berkelium		
Bk-247		8 10 ⁸
Bk-249	(see note 1)	3 10 ¹¹
Beryllium		
Be-7		2 10 ¹³
Be-10		6 10 ¹¹
Bismuth		
Bi-205		7 10 ¹¹
Bi-206		3 10 ¹¹
Bi-207		7 10 ¹¹
Bi-210		6 10 ¹¹
Bi-210m	(see note 1)	2 10 ¹⁰
Bi-212	(see note 1)	6 10 ¹¹
Bromine		
Br-76		4 10 ¹¹

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<i>Radionuclide name, symbol</i>	<i>Radionuclide form</i>	<i>Quantity (Bq)</i>
Br-77		$3 \cdot 10^{12}$
Br-82		$4 \cdot 10^{11}$
Cadmium		
Cd-109		$2 \cdot 10^{12}$
Cd-113m		$5 \cdot 10^{11}$
Cd-115	(see note 1)	$4 \cdot 10^{11}$
Cd-115m		$5 \cdot 10^{11}$
Caesium		
Cs-129		$4 \cdot 10^{12}$
Cs-131		$3 \cdot 10^{13}$
Cs-132		$1 \cdot 10^{12}$
Cs-134		$7 \cdot 10^{11}$
Cs-134m		$6 \cdot 10^{11}$
Cs-135		$1 \cdot 10^{12}$
Cs-136		$5 \cdot 10^{11}$
Cs-137	(see note 1)	$6 \cdot 10^{11}$
Calcium		
Ca-41		unlimited
Ca-45		$1 \cdot 10^{12}$
Ca-47	(see note 1)	$3 \cdot 10^{11}$
Californium		
Cf-248		$6 \cdot 10^9$
Cf-249		$8 \cdot 10^8$
Cf-250		$2 \cdot 10^9$
Cf-251		$7 \cdot 10^8$
Cf-252		$3 \cdot 10^9$

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Cf-253	(see note 1)	4 10 ¹⁰
Cf-254		1 10 ⁹
Carbon		
C-11		6 10 ¹¹
C-14		3 10 ¹²
Cerium		
Ce-139		2 10 ¹²
Ce-141		6 10 ¹¹
Ce-143		6 10 ¹¹
Ce-144	(see note 1)	2 10 ¹¹
Chlorine		
Cl-36		6 10 ¹¹
Cl-38		2 10 ¹¹
Chromium		
Cr-51		3 10 ¹³
Cobalt		
Co-55		5 10 ¹¹
Co-56		3 10 ¹¹
Co-57		1 10 ¹³
Co-58		1 10 ¹²
Co-58m		4 10 ¹³
Co-60		4 10 ¹¹
Copper		
Cu-64		1 10 ¹²
Cu-67		7 10 ¹¹
Curium		
Cm-240		2 10 ¹⁰

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Cm-241		1 10 ¹²
Cm-242		1 10 ¹⁰
Cm-243		1 10 ⁹
Cm-244		2 10 ⁹
Cm-245		9 10 ⁸
Cm-246		9 10 ⁸
Cm-247	(see note 1)	1 10 ⁹
Cm-248		3 10 ⁸
Dysprosium		
Dy-159		2 10 ¹³
Dy-165		6 10 ¹¹
Dy-166	(see note 1)	3 10 ¹¹
Erbium		
Er-169		1 10 ¹²
Er-171		5 10 ¹¹
Europium		
Eu-147		2 10 ¹²
Eu-148		5 10 ¹¹
Eu-149		2 10 ¹³
Eu-150	(long lived isotope)	7 10 ¹¹
Eu-150	(short lived isotope)	7 10 ¹¹
Eu-152		1 10 ¹²
Eu-152m		8 10 ¹¹
Eu-154		6 10 ¹¹
Eu-155		3 10 ¹²

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Eu-156		7 10 ¹¹
Fluorine		
F-18		6 10 ¹¹
Gadolinium		
Gd-146	(see note 1)	5 10 ¹¹
Gd-148		2 10 ⁹
Gd-153		9 10 ¹²
Gd-159		6 10 ¹¹
Gallium		
Ga-67		3 10 ¹²
Ga-68		5 10 ¹¹
Ga-72		4 10 ¹¹
Germanium		
Ge-68	(see note 1)	5 10 ¹¹
Ge-71		4 10 ¹³
Ge-77		3 10 ¹¹
Gold		
Au-193		2 10 ¹²
Au-194		1 10 ¹²
Au-195		6 10 ¹²
Au-198		6 10 ¹¹
Au-199		6 10 ¹¹
Hafnium		
Hf-172	(see note 1)	6 10 ¹¹
Hf-175		3 10 ¹²
Hf-181		5 10 ¹¹
Hf-182		unlimited

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Holmium		
Ho-166		4 10 ¹¹
Ho-166m		5 10 ¹¹
Hydrogen		
H-3		4 10 ¹³
Indium		
In-111		3 10 ¹²
In-113m		2 10 ¹²
In-114m	(see note 1)	5 10 ¹¹
In-115m		1 10 ¹²
Iodine		
I-123		3 10 ¹²
I-124		1 10 ¹²
I-125		3 10 ¹²
I-126		1 10 ¹²
I-129		unlimited
I-131		7 10 ¹¹
I-132		4 10 ¹¹
I-133		6 10 ¹¹
I-134		3 10 ¹¹
I-135	(see note 1)	6 10 ¹¹
Iridium		
Ir-189	(see note 1)	1 10 ¹³
Ir-190		7 10 ¹¹
Ir-192		6 10 ¹¹
Ir-194		3 10 ¹¹
Iron		

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Fe-52	(see note 1)	3 10 ¹¹
Fe-55		4 10 ¹³
Fe-59		9 10 ¹¹
Fe-60	(see note 1)	2 10 ¹¹
Krypton		
Kr-81		4 10 ¹³
Kr-85		1 10 ¹³
Kr-85m		3 10 ¹²
Kr-87		2 10 ¹¹
Lanthanum		
La-137		6 10 ¹²
La-140		4 10 ¹¹
Lead		
Pb-201		1 10 ¹²
Pb-202		2 10 ¹³
Pb-203		3 10 ¹²
Pb-205		unlimited
Pb-210	(see note 1)	5 10 ¹⁰
Pb-212	(see note 1)	2 10 ¹¹
Lutetium		
Lu-172		6 10 ¹¹
Lu-173		8 10 ¹²
Lu-174		9 10 ¹²
Lu-174m		1 10 ¹³
Lu-177		7 10 ¹¹
Magnesium		

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Mg-28	(see note 1)	3 10 ¹¹
Manganese		
Mn-52		3 10 ¹¹
Mn-53		unlimited
Mn-54		1 10 ¹²
Mn-56		3 10 ¹¹
Mercury		
Hg-194	(see note 1)	1 10 ¹²
Hg-195m	(see note 1)	7 10 ¹¹
Hg-197		1 10 ¹³
Hg-197m		4 10 ¹¹
Hg-203		1 10 ¹²
Molybdenum		
Mo-93		2 10 ¹³
Mo-99	(see note 1)	6 10 ¹¹
Neodymium		
Nd-147		6 10 ¹¹
Nd-149		5 10 ¹¹
Neptunium		
Np-235		4 10 ¹³
Np-236	(long lived isotope)	2 10 ¹⁰
Np-236	(short lived isotope)	2 10 ¹²
Np-237		2 10 ⁹
Np-239		4 10 ¹¹
Nickel		
Ni-59		unlimited
Ni-63		3 10 ¹³

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Ni-65		4 10 ¹¹
Niobium		
Nb-93m		3 10 ¹³
Nb-94		7 10 ¹¹
Nb-95		1 10 ¹²
Nb-97		6 10 ¹¹
Nitrogen		
N-13		6 10 ¹¹
Osmium		
Os-185		1 10 ¹²
Os-191		2 10 ¹²
Os-191m		3 10 ¹³
Os-193		6 10 ¹¹
Os-194	(see note 1)	3 10 ¹¹
Palladium		
Pd-103	(see note 1)	4 10 ¹³
Pd-107		unlimited
Pd-109		5 10 ¹¹
Phosphorus		
P-32		5 10 ¹¹
P-33		1 10 ¹²
Platinum		
Pt-188	(see note 1)	8 10 ¹¹
Pt-191		3 10 ¹²
Pt-193		4 10 ¹³
Pt-193m		5 10 ¹¹
Pt195m		5 10 ¹¹

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Pt-197		6 10 ¹¹
Pt-197m		6 10 ¹¹
Plutonium		
Pu-236		3 10 ⁹
Pu-237		2 10 ¹³
Pu-238		1 10 ⁹
Pu-239		1 10 ⁹
Pu-240		1 10 ⁹
Pu-241	(see note 1)	6 10 ¹⁰
Pu-242		1 10 ⁹
Pu-244	(see note 1)	1 10 ⁹
Polonium		
Po-210		2 10 ¹⁰
Potassium		
K-40		9 10 ¹¹
K-42		2 10 ¹¹
K-43		6 10 ¹¹
Praseodymium		
Pr-142		4 10 ¹¹
Pr-143		6 10 ¹¹
Promethium		
Pm-143		3 10 ¹²
Pm-144		7 10 ¹¹
Pm-145		1 10 ¹³
Pm-147		2 10 ¹²
Pm-148m	(see note 1)	7 10 ¹¹

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Pm-149		6 10 ¹¹
Pm-151		6 10 ¹¹
Protactinium		
Pa-230	(see note 1)	7 10 ¹⁰
Pa-231		4 10 ⁸
Pa-233		7 10 ¹¹
Radium		
Ra-223	(see note 1)	7 10 ⁹
Ra-224	(see note 1)	2 10 ¹⁰
Ra-225	(see note 1)	4 10 ⁹
Ra-226	(see note 1)	3 10 ⁹
Ra-228	(see note 1)	2 10 ¹⁰
Radon		
Rn-222	(see note 1)	4 10 ⁹
Rhenium		
Re-184		1 10 ¹²
Re-184m		1 10 ¹²
Re-186		6 10 ¹¹
Re-187		unlimited
Re-188		4 10 ¹¹
Re-189	(see note 1)	6 10 ¹¹
Re-natural		unlimited
Rhodium		
Rh-99		2 10 ¹²
Rh-101		3 10 ¹²
Rh-102		5 10 ¹¹

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Rh-102m		2 10 ¹²
Rh-103m		4 10 ¹³
Rh-105		8 10 ¹¹
Rubidium		
Rb-81		8 10 ¹¹
Rb-83	(see note 1)	2 10 ¹²
Rb-84		1 10 ¹²
Rb-86		5 10 ¹¹
Rb-87		unlimited
Rb-natural		unlimited
Ruthenium		
Ru-97		5 10 ¹²
Ru-103	(see note 1)	2 10 ¹²
Ru-105		6 10 ¹¹
Ru-106	(see note 1)	2 10 ¹¹
Samarium		
Sm-145		1 10 ¹³
Sm-147		unlimited
Sm-151		1 10 ¹³
Sm-153		6 10 ¹¹
Scandium		
Sc-44		5 10 ¹¹
Sc-46		5 10 ¹¹
Sc-47		7 10 ¹¹
Sc-48		3 10 ¹¹
Selenium		

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Se-75		3 10 ¹²
Se-79		2 10 ¹²
Silicon		
Si-31		6 10 ¹¹
Si-32		5 10 ¹¹
Silver		
Ag-105		2 10 ¹²
Ag-108m	(see note 1)	7 10 ¹¹
Ag-110m	(see note 1)	4 10 ¹¹
Ag-111		6 10 ¹¹
Sodium		
Na-22		5 10 ¹¹
Na-24		2 10 ¹¹
Strontium		
Sr-82	(see note 1)	2 10 ¹¹
Sr-85		2 10 ¹²
Sr-85m		5 10 ¹²
Sr-87m		3 10 ¹²
Sr-89		6 10 ¹¹
Sr-90	(see note 1)	3 10 ¹¹
Sr-91	(see note 1)	3 10 ¹¹
Sr-92	(see note 1)	3 10 ¹¹
Sulphur		
S-35		3 10 ¹²
Tantalum		
Ta-178	(long lived isotope)	8 10 ¹¹

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Ta-179		3 10 ¹³
Ta-182		5 10 ¹¹
Technetium		
Tc-95m	(see note 1)	2 10 ¹²
Tc-96		4 10 ¹¹
Tc-96m	(see note 1)	4 10 ¹¹
Tc-97		unlimited
Tc-97m		1 10 ¹²
Tc-98		7 10 ¹¹
Tc-99		9 10 ¹¹
Tc-99m		4 10 ¹²
Tellurium		
Te-121		2 10 ¹²
Te-121m		3 10 ¹²
Te-123m		1 10 ¹²
Te-125m		9 10 ¹¹
Te-127		7 10 ¹¹
Te-127m	(see note 1)	5 10 ¹¹
Te-129		6 10 ¹¹
Te-129m	(see note 1)	4 10 ¹¹
Te-131m	(see note 1)	5 10 ¹¹
Te-132	(see note 1)	4 10 ¹¹
Terbium		
Tb-157		4 10 ¹³
Tb-158		1 10 ¹²

Note 1: Values include contributions from daughter nuclides with half-lives less than 10 days.

Note 2: These values apply only to compounds of uranium that take the chemical form of UF₆, UO₂F₂ and UO₂(NO₃)₂ in both normal and accident conditions of transport

Note 3: These values apply only to compounds of uranium that take the chemical form of O₃, UF₄, UCL₄ and hexavalent compounds other than those specified in both normal and accident conditions of transport.

Note 4: These values apply to all compounds of uranium other than those specified in 2 and 3 above.

Note 5: These values apply to *unirradiated uranium* only.

Note 6: 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.

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<i>Radionuclide name, symbol</i>	<i>Radionuclide form</i>	<i>Quantity (Bq)</i>
Tb-160		6 10 ¹¹
Thallium		
Tl-200		9 10 ¹¹
Tl-201		4 10 ¹²
Tl-202		2 10 ¹²
Tl-204		7 10 ¹¹
Thorium		
Th-227		5 10 ⁹
Th-228	(see note 1)	1 10 ⁹
Th-229		5 10 ⁸
Th-230		1 10 ⁹
Th-231		2 10 ¹⁰
Th-232		unlimited
Th-234	(see note 1)	3 10 ¹¹
Th-natural		unlimited
Thulium		
Tm-167		8 10 ¹¹
Tm-170		6 10 ¹¹
Tm-171		4 10 ¹³
Tin		
Sn-113	(see note 1)	2 10 ¹²
Sn-117m		4 10 ¹¹
Sn-119m		3 10 ¹³
Sn-121m	(see note 1)	9 10 ¹¹
Sn-123		6 10 ¹¹
Sn-125		4 10 ¹¹

Note 1: Values include contributions from daughter nuclides with half-lives less than 10 days.

Note 2: These values apply only to compounds of uranium that take the chemical form of UF₆, UO₂F₂ and UO₂(NO₃)₂ in both normal and accident conditions of transport

Note 3: These values apply only to compounds of uranium that take the chemical form of O₃, UF₄, UCL₄ and hexavalent compounds other than those specified in both normal and accident conditions of transport.

Note 4: These values apply to all compounds of uranium other than those specified in 2 and 3 above.

Note 5: These values apply to *unirradiated uranium* only.

Note 6: 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.

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<i>Radionuclide name, symbol</i>	<i>Radionuclide form</i>	<i>Quantity (Bq)</i>
Sn-126	(see note 1)	4 10 ¹¹
Titanium		
Ti-44	(see note 1)	4 10 ¹¹
Tungsten		
W-178	(see note 1)	5 10 ¹²
W-181		3 10 ¹³
W-185		8 10 ¹¹
W-187		6 10 ¹¹
W-188	(see note 1)	3 10 ¹¹
Uranium		
U-230	(fast lung absorption, see notes 1 and 2)	1 10 ¹¹
U-230	(medium lung absorption, see notes 1 and 3)	4 10 ⁹
U-230	(slow lung absorption, see notes 1 and 4)	3 10 ⁹
U-232	(fast lung absorption, see note 2)	1 10 ¹⁰
U-232	(medium lung absorption, see note 3)	7 10 ⁹
U-232	(slow lung absorption, see note 4)	1 10 ⁹
U-233	(fast lung absorption, see note 2)	9 10 ¹⁰
U-233	(medium lung absorption, see note 3)	2 10 ¹⁰
U-233	(slow lung absorption, see note 4)	6 10 ⁹
U-234	(fast lung absorption, see note 2)	9 10 ¹⁰
U-234		2 10 ¹⁰

Note 1: Values include contributions from daughter nuclides with half-lives less than 10 days.

Note 2: These values apply only to compounds of uranium that take the chemical form of UF₆, UO₂F₂ and UO₂(NO₃)₂ in both normal and accident conditions of transport

Note 3: These values apply only to compounds of uranium that take the chemical form of O₃, UF₄, UCL₄ and hexavalent compounds other than those specified in both normal and accident conditions of transport.

Note 4: These values apply to all compounds of uranium other than those specified in 2 and 3 above.

Note 5: These values apply to *unirradiated uranium* only.

Note 6: 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.

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<i>Radionuclide name, symbol</i>	<i>Radionuclide form</i>	<i>Quantity (Bq)</i>
U-234	(medium lung absorption, see note 3)	$6 \cdot 10^9$
U-235	(slow lung absorption, see note 4)	unlimited
U-236	(all lung absorption types, see notes 1, 2, 3 and 4)	unlimited
U-236	(fast lung absorption, see note 2)	$2 \cdot 10^{10}$
U-236	(medium lung absorption, see note 3)	$6 \cdot 10^9$
U-238	(slow lung absorption, see note 4)	unlimited
U-natural	(all lung absorption types, see notes 2, 3 and 4)	unlimited
U (enriched to 20% or less)		unlimited
U-depleted	(see note 5)	unlimited
Vanadium		
V-48		$4 \cdot 10^{11}$
V-49		$4 \cdot 10^{13}$
Xenon		
Xe-122	(see note 1)	$4 \cdot 10^{11}$
Xe-123		$7 \cdot 10^{11}$
Xe-127		$2 \cdot 10^{12}$
Xe-131m		$4 \cdot 10^{13}$
Xe-133		$1 \cdot 10^{13}$
Xe-135		$2 \cdot 10^{12}$
Ytterbium		
Yb-169		$1 \cdot 10^{12}$
Yb-175		$9 \cdot 10^{11}$
Yttrium		

Note 1: Values include contributions from daughter nuclides with half-lives less than 10 days.

Note 2: These values apply only to compounds of uranium that take the chemical form of UF_6 , UO_2F_2 and $UO_2(NO_3)_2$ in both normal and accident conditions of transport

Note 3: These values apply only to compounds of uranium that take the chemical form of O_3 , UF_4 , UCL_4 and hexavalent compounds other than those specified in both normal and accident conditions of transport.

Note 4: These values apply to all compounds of uranium other than those specified in 2 and 3 above.

Note 5: These values apply to *unirradiated uranium* only.

Note 6: 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.

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<i>Radionuclide name, symbol</i>	<i>Radionuclide form</i>	<i>Quantity (Bq)</i>
Y-87	(see note 1)	1 10 ¹²
Y-88		4 10 ¹¹
Y-90		3 10 ¹¹
Y-91		6 10 ¹¹
Y-91m		2 10 ¹²
Y-92		2 10 ¹¹
Y-93		3 10 ¹¹
Zinc		
Zn-65		2 10 ¹²
Zn-69		6 10 ¹¹
Zn-69m	(see note 1)	6 10 ¹¹
Zirconium		
Zr-88		3 10 ¹²
Zr-93		unlimited
Zr-95	(see note 1)	8 10 ¹¹
Zr-97	(see note 1)	4 10 ¹¹
Other radionuclides not listed above where only beta or gamma emitting nuclides are known to be present	(see note 6)	2 10 ¹⁰
Other radionuclides not listed above where alpha emitting nuclides are known to be present or no relevant data are available	(see note 6)	9 10 ⁷
Note 1: Values include contributions from daughter nuclides with half-lives less than 10 days.		
Note 2: These values apply only to compounds of uranium that take the chemical form of UF ₆ , UO ₂ F ₂ and UO ₂ (NO ₃) ₂ in both normal and accident conditions of transport		
Note 3: These values apply only to compounds of uranium that take the chemical form of O ₃ , UF ₄ , UCL ₄ and hexavalent compounds other than those specified in both normal and accident conditions of transport.		
Note 4: These values apply to all compounds of uranium other than those specified in 2 and 3 above.		
Note 5: These values apply to <i>unirradiated uranium</i> only.		
Note 6: 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.		

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Part II

Quantity ratios for more than one radionuclide

1. For the purpose of regulation 3(3), 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.