

SCHEDULE 1

Regulation 2(1)

Doses of Ionising Radiation within the meaning of “Radiation Emergency”

1. An effective dose of 5 mSv in the period of one year immediately following the radiation emergency.
2. Without prejudice to paragraph 1—
 - (a) an equivalent dose for the lens of the eye of 15 mSv in the period of one year immediately following the radiation emergency; and
 - (b) an equivalent dose for the skin of 50 mSv in the period of one year immediately following the radiation emergency over 1cm² area of skin, regardless of the area exposed.
3. In this Schedule—
 - (a) any reference to an effective dose means the sum of the effective dose to the whole body from external radiation and the committed effective dose from internal radiation;
 - (b) any reference to equivalent dose to a human tissue or organ includes the committed equivalent dose to that tissue or organ from internal radiation;
 - (c) “external radiation” means, in relation to a person, ionising radiation coming from outside the body of that person; and
 - (d) “internal radiation” means, in relation to a person, ionising radiation coming from inside the body of that person.

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>
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

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<i>Radionuclide name, symbol</i>	<i>Radionuclide form</i>	<i>Quantity (Bq)</i>
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
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
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<i>Radionuclide name, symbol</i>	<i>Radionuclide form</i>	<i>Quantity (Bq)</i>
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
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		1 10 ¹²

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<i>Radionuclide name, symbol</i>	<i>Radionuclide form</i>	<i>Quantity (Bq)</i>
Ba-140		$2 \cdot 10^{12}$
Ba-141		$1 \cdot 10^{12}$
Ba-142		$2 \cdot 10^{12}$
Berkelium		
Bk-245		$3 \cdot 10^{12}$
Bk-246		$6 \cdot 10^{12}$
Bk-247		$3 \cdot 10^8$
Bk-249		$2 \cdot 10^{11}$
Bk-250		$2 \cdot 10^{12}$
Beryllium		
Be-7		$2 \cdot 10^{13}$
Be-10		$6 \cdot 10^{11}$
Bismuth		
Bi-200		$2 \cdot 10^{12}$
Bi-201		$2 \cdot 10^{12}$
Bi-202		$3 \cdot 10^{12}$
Bi-203		$4 \cdot 10^{12}$
Bi-205		$2 \cdot 10^{12}$
Bi-206		$2 \cdot 10^{12}$
Bi-207		$1 \cdot 10^{11}$
Bi-210		$2 \cdot 10^{11}$
Bi-210m		$6 \cdot 10^9$
Bi-212		$7 \cdot 10^{11}$
Bi-213		$7 \cdot 10^{11}$
Bi-214		$1 \cdot 10^{12}$
Bromine		
Br-74		$8 \cdot 10^{11}$
Br-74m		$6 \cdot 10^{11}$
Br-75		$2 \cdot 10^{12}$
Br-76		$1 \cdot 10^{12}$

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<i>Radionuclide name, symbol</i>	<i>Radionuclide form</i>	<i>Quantity (Bq)</i>
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
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

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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
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}

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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		
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

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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
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

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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
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

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<i>Radionuclide name, symbol</i>	<i>Radionuclide form</i>	<i>Quantity (Bq)</i>
Gd-159		2 10 ¹²
Gallium		
Ga-65		1 10 ¹²
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

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Hf-172		5 10 ¹¹
Hf-173		6 10 ¹²
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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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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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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I-133	(methyl iodide vapour)	$3 \cdot 10^{12}$
I-134		$2 \cdot 10^{12}$
I-134	(elemental vapour)	$3 \cdot 10^{13}$
I-134	(methyl iodide vapour)	$4 \cdot 10^{13}$
I-135		$2 \cdot 10^{12}$
I-135	(elemental vapour)	$9 \cdot 10^{12}$
I-135	(methyl iodide vapour)	$1 \cdot 10^{13}$
Iridium		
Ir-182		$1 \cdot 10^{12}$
Ir-184		$2 \cdot 10^{12}$
Ir-185		$3 \cdot 10^{12}$
Ir-186	(long lived isotope)	$3 \cdot 10^{12}$
Ir-186	(short lived isotope)	$2 \cdot 10^{12}$
Ir-187		$6 \cdot 10^{12}$
Ir-188		$5 \cdot 10^{12}$
Ir-189		$9 \cdot 10^{12}$
Ir-190		$2 \cdot 10^{12}$
Ir-190m	(long lived isotope)	$3 \cdot 10^{12}$
Ir-190m	(short lived isotope)	$1 \cdot 10^{13}$
Ir-192		$6 \cdot 10^{11}$
Ir-192m		$4 \cdot 10^{11}$
Ir-193m		$4 \cdot 10^{12}$
Ir-194		$1 \cdot 10^{12}$
Ir-194m		$1 \cdot 10^{11}$
Ir-195		$2 \cdot 10^{12}$
Ir-195m		$2 \cdot 10^{12}$
Iron		
Fe-52		$2 \cdot 10^{12}$
Fe-55		$8 \cdot 10^{12}$
Fe-59		$8 \cdot 10^{11}$

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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
Pb-201		8 10 ¹²
Pb-202		6 10 ¹¹

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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
Mn-52		2 10 ¹²
Mn-52m		8 10 ¹¹
Mn-53		1 10 ¹⁴

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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
Hg-197m	(vapour)	4 10 ¹²
Hg-199m	(organic)	2 10 ¹²
Hg-199m	(inorganic)	2 10 ¹²
Hg-199m	(vapour)	1 10 ¹⁴

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<i>Radionuclide name, symbol</i>	<i>Radionuclide form</i>	<i>Quantity (Bq)</i>
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}
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}

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<i>Radionuclide name, symbol</i>	<i>Radionuclide form</i>	<i>Quantity (Bq)</i>
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
Nb-97		2 10 ¹²
Nb-98		1 10 ¹²
Nitrogen		
N-13	(gas)	6 10 ¹³
Osmium		
Os-180		1 10 ¹³

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<i>Radionuclide name, symbol</i>	<i>Radionuclide form</i>	<i>Quantity (Bq)</i>
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
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		

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<i>Radionuclide name, symbol</i>	<i>Radionuclide form</i>	<i>Quantity (Bq)</i>
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		
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

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<i>Radionuclide name, symbol</i>	<i>Radionuclide form</i>	<i>Quantity (Bq)</i>
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		
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

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<i>Radionuclide name, symbol</i>	<i>Radionuclide form</i>	<i>Quantity (Bq)</i>
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		
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

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<i>Radionuclide name, symbol</i>	<i>Radionuclide form</i>	<i>Quantity (Bq)</i>
Rh-107		$2 \cdot 10^{12}$
Rubidium		
Rb-79		$1 \cdot 10^{12}$
Rb-81		$2 \cdot 10^{12}$
Rb-81m		$4 \cdot 10^{12}$
Rb-82m		$3 \cdot 10^{12}$
Rb-83		$1 \cdot 10^{12}$
Rb-84		$1 \cdot 10^{12}$
Rb-86		$2 \cdot 10^{11}$
Rb-87		$4 \cdot 10^{12}$
Rb-88		$5 \cdot 10^{11}$
Rb-89		$9 \cdot 10^{11}$
Ruthenium		
Ru-94		$1 \cdot 10^{14}$
Ru-94	(tetroxide vapour)	$1 \cdot 10^{14}$
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)	$8 \cdot 10^{11}$
Samarium		
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		$3 \cdot 10^9$

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<i>Radionuclide name, symbol</i>	<i>Radionuclide form</i>	<i>Quantity (Bq)</i>
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
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

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<i>Radionuclide name, symbol</i>	<i>Radionuclide form</i>	<i>Quantity (Bq)</i>
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
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

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<i>Radionuclide name, symbol</i>	<i>Radionuclide form</i>	<i>Quantity (Bq)</i>
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		
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

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<i>Radionuclide name, symbol</i>	<i>Radionuclide form</i>	<i>Quantity (Bq)</i>
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
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

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<i>Radionuclide name, symbol</i>	<i>Radionuclide form</i>	<i>Quantity (Bq)</i>
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
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

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Tl-201		$7 \cdot 10^{12}$
Tl-202		$7 \cdot 10^{12}$
Tl-204		$2 \cdot 10^{12}$
Thorium		
Th-226		$4 \cdot 10^{11}$
Th-227		$2 \cdot 10^9$
Th-228		$6 \cdot 10^8$
Th-229		$1 \cdot 10^8$
Th-230		$2 \cdot 10^8$
Th-231		$2 \cdot 10^{12}$
Th-232		$2 \cdot 10^8$
Th-234		$3 \cdot 10^{12}$
Thulium		
Tm-162		$2 \cdot 10^{12}$
Tm-166		$3 \cdot 10^{12}$
Tm-167		$4 \cdot 10^{12}$
Tm-170		$2 \cdot 10^{12}$
Tm-171		$1 \cdot 10^{13}$
Tm-172		$2 \cdot 10^{12}$
Tm-173		$2 \cdot 10^{12}$
Tm-175		$2 \cdot 10^{12}$
Tin		
Sn-110		$6 \cdot 10^{13}$
Sn-111		$2 \cdot 10^{12}$
Sn-113		$5 \cdot 10^{12}$
Sn-117m		$3 \cdot 10^{12}$
Sn-119m		$5 \cdot 10^{12}$
Sn-121		$3 \cdot 10^{12}$
Sn-121m		$4 \cdot 10^{12}$
Sn-123		$2 \cdot 10^{12}$

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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
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		

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<i>Radionuclide name, symbol</i>	<i>Radionuclide form</i>	<i>Quantity (Bq)</i>
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-131	(gas)	4 10 ¹⁵
Xe-133	(gas)	1 10 ¹⁵
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

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<i>Radionuclide name, symbol</i>	<i>Radionuclide form</i>	<i>Quantity (Bq)</i>
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}
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 Q_{lim} , namely—

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

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.

SCHEDULE 3

Regulation 3(1)

Masses of Fissile Material

For the purpose of regulation 3(1), the specified mass of a fissile material shall be—

(a)	(a) plutonium as Pu 239 or Pu 241 or as a mixture of plutonium isotopes containing Pu 239 or Pu 241 –	150 grams;
(b)	(b) uranium as U 233 –	150 grams;
(c)	(c) uranium enriched in U 235 to more than 1% but not more than 5 % –	500 grams;
(d)	(d) uranium enriched in U 235 to more than 5% –	250 grams.

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		
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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<i>Radionuclide name, symbol</i>	<i>Radionuclide form</i>	<i>Quantity (Bq)</i>
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}
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		

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>
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
Br-77		3 10 ¹²
Br-82		4 10 ¹¹
Cadmium		
Cd-109		2 10 ¹²
Cd-113m		5 10 ¹¹
Cd-115	(see note 1)	4 10 ¹¹
Cd-115m		5 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>
Caesium		
Cs-129		4 10 ¹²
Cs-131		3 10 ¹³
Cs-132		1 10 ¹²
Cs-134		7 10 ¹¹
Cs-134m		6 10 ¹¹
Cs-135		1 10 ¹²
Cs-136		5 10 ¹¹
Cs-137	(see note 1)	6 10 ¹¹
Calcium		
Ca-41		unlimited
Ca-45		1 10 ¹²
Ca-47	(see note 1)	3 10 ¹¹
Californium		
Cf-248		6 10 ⁹
Cf-249		8 10 ⁸
Cf-250		2 10 ⁹
Cf-251		7 10 ⁸
Cf-252		3 10 ⁹
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

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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>
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
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

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

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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.

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<i>Radionuclide name, symbol</i>	<i>Radionuclide form</i>	<i>Quantity (Bq)</i>
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
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

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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.

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<i>Radionuclide name, symbol</i>	<i>Radionuclide form</i>	<i>Quantity (Bq)</i>
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
Holmium		
Ho-166		4 10 ¹¹
Ho-166m		5 10 ¹¹
Hydrogen		
H-3		4 10 ¹³
Indium		
In-111		3 10 ¹²

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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.

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<i>Radionuclide name, symbol</i>	<i>Radionuclide form</i>	<i>Quantity (Bq)</i>
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		
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

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

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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.

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<i>Radionuclide name, symbol</i>	<i>Radionuclide form</i>	<i>Quantity (Bq)</i>
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		
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		

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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.

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<i>Radionuclide name, symbol</i>	<i>Radionuclide form</i>	<i>Quantity (Bq)</i>
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
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		

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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.

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<i>Radionuclide name, symbol</i>	<i>Radionuclide form</i>	<i>Quantity (Bq)</i>
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
Pt-195m		5 10 ¹¹
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

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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.

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<i>Radionuclide name, symbol</i>	<i>Radionuclide form</i>	<i>Quantity (Bq)</i>
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
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

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

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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.

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<i>Radionuclide name, symbol</i>	<i>Radionuclide form</i>	<i>Quantity (Bq)</i>
Radium		
Ra-223	(see note 1)	$7 \cdot 10^9$
Ra-224	(see note 1)	$2 \cdot 10^{10}$
Ra-225	(see note 1)	$4 \cdot 10^9$
Ra-226	(see note 1)	$3 \cdot 10^9$
Ra-228	(see note 1)	$2 \cdot 10^{10}$
Radon		
Rn-222	(see note 1)	$4 \cdot 10^9$
Rhenium		
Re-184		$1 \cdot 10^{12}$
Re-184m		$1 \cdot 10^{12}$
Re-186		$6 \cdot 10^{11}$
Re-187		unlimited
Re-188		$4 \cdot 10^{11}$
Re-189	(see note 1)	$6 \cdot 10^{11}$
Re-natural		unlimited
Rhodium		
Rh-99		$2 \cdot 10^{12}$
Rh-101		$3 \cdot 10^{12}$
Rh-102		$5 \cdot 10^{11}$
Rh-102m		$2 \cdot 10^{12}$
Rh-103m		$4 \cdot 10^{13}$
Rh-105		$8 \cdot 10^{11}$
Rubidium		
Rb-81		$8 \cdot 10^{11}$
Rb-83	(see note 1)	$2 \cdot 10^{12}$

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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.

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<i>Radionuclide name, symbol</i>	<i>Radionuclide form</i>	<i>Quantity (Bq)</i>
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		
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

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>
Ag-108m	(see note 1)	$7 \cdot 10^{11}$
Ag-110m	(see note 1)	$4 \cdot 10^{11}$
Ag-111		$6 \cdot 10^{11}$
Sodium		
Na-22		$5 \cdot 10^{11}$
Na-24		$2 \cdot 10^{11}$
Strontium		
Sr-82	(see note 1)	$2 \cdot 10^{11}$
Sr-85		$2 \cdot 10^{12}$
Sr-85m		$5 \cdot 10^{12}$
Sr-87m		$3 \cdot 10^{12}$
Sr-89		$6 \cdot 10^{11}$
Sr-90	(see note 1)	$3 \cdot 10^{11}$
Sr-91	(see note 1)	$3 \cdot 10^{11}$
Sr-92	(see note 1)	$3 \cdot 10^{11}$
Sulphur		
S-35		$3 \cdot 10^{12}$
Tantalum		
Ta-178	(long lived isotope)	$8 \cdot 10^{11}$
Ta-179		$3 \cdot 10^{13}$
Ta-182		$5 \cdot 10^{11}$
Technetium		
Tc-95m	(see note 1)	$2 \cdot 10^{12}$
Tc-96		$4 \cdot 10^{11}$
Tc-96m	(see note 1)	$4 \cdot 10^{11}$
Tc-97		unlimited

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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>
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
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

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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>
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
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

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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>
W-188	(see note 1)	$3 \cdot 10^{11}$
Uranium		
U-230	(fast lung absorption, see notes 1 and 2)	$1 \cdot 10^{11}$
U-230	(medium lung absorption, see notes 1 and 3)	$4 \cdot 10^9$
U-230	(slow lung absorption, see notes 1 and 4)	$3 \cdot 10^9$
U-232	(fast lung absorption, see note 2)	$1 \cdot 10^{10}$
U-232	(medium lung absorption, see note 3)	$7 \cdot 10^9$
U-232	(slow lung absorption, see note 4)	$1 \cdot 10^9$
U-233	(fast lung absorption, see note 2)	$9 \cdot 10^{10}$
U-233	(medium lung absorption, see note 3)	$2 \cdot 10^{10}$
U-233	(slow lung absorption, see note 4)	$6 \cdot 10^9$
U-234	(fast lung absorption, see note 2)	$9 \cdot 10^{10}$
U-234		$2 \cdot 10^{10}$
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)	$6 \cdot 10^9$

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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>
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 10 ¹¹
V-49		4 10 ¹³
Xenon		
Xe-122	(see note 1)	4 10 ¹¹
Xe-123		7 10 ¹¹
Xe-127		2 10 ¹²
Xe-131m		4 10 ¹³
Xe-133		1 10 ¹³
Xe-135		2 10 ¹²
Ytterbium		
Yb-169		1 10 ¹²
Yb-175		9 10 ¹¹
Yttrium		
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

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.

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<i>Radionuclide name, symbol</i>	<i>Radionuclide form</i>	<i>Quantity (Bq)</i>
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

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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.

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.

SCHEDULE 5

Regulation 6(4)

Particulars to be Included in an Assessment Report

The following particulars are required to be included in an assessment report under regulation 6(4):—

- (a) the name and address of the operator or carrier;
- (b) the postal address of the premises where the radioactive substance will be processed, manufactured, used or stored, or where the facilities for processing, manufacture, use or storage exist or, in the case of transport, the postal address of the transport undertaking;
- (c) the date on which it is anticipated that the work with ionising radiation will commence or, if it has already commenced, a statement to that effect;
- (d) a general description of the premises or place including the geographical location, meteorological, geological, hydrographic conditions and, where material, the history of the premises, except that in the case of transport a general description shall be given of either—
 - (i) the starting and end points of the journeys and transhipment points, or
 - (ii) the criteria to be used for route selection;
- (e) in the case of an assessment by an operator, a description of any radioactive substance on the premises which is likely to exceed any quantity or mass specified in Schedule 2 or Schedule 3 as the case may be, which description shall where practicable include details of the radionuclides present and their likely maximum quantities;
- (f) in the case of an assessment by a carrier, a description of any radioactive substance which is likely to exceed any quantity or mass specified in Schedule 4 or Schedule 3 as the case may be, which description shall where practicable include details of the radionuclides present and their likely maximum quantities;
- (g) except in the case of an assessment relating to transport, a plan of the premises in question and a map of the environs to a scale large enough to enable the premises and any features which could affect the general risk in an emergency to be identified;
- (h) a diagram and description of any single plant or enclosed system containing more than the quantity or mass of any radioactive substance specified in Schedule 2 or Schedule 3, as the case may be, or, in the case of the transport of more than the quantity or mass of any radioactive substance specified in Schedule 4 or Schedule 3, as the case may be, the nature of the containment for the radioactive substance, the type of vehicle and the means of securing the load within or on the vehicle;
- (i) those factors which could precipitate a major release of any radioactive substance and the measures to be taken to prevent or control such release and information showing the maximum quantity of radioactive substance which, in the event of a major failure of containment, would be released to the atmosphere including, in respect of premises, the identification of plant and other activities anywhere on the premises which could precipitate such release;
- (j) those factors which could precipitate a smaller but continuing release of any radioactive substance and the measures to be taken to prevent or control such releases to atmosphere;
- (k) those factors which could give rise to an incident involving the initiation of an unintended self-sustaining nuclear chain reaction or the loss of control of an intended self-sustaining nuclear chain reaction and, in either case, the measures to be taken to prevent or control any such incident;
- (l) information concerning the management systems and staffing arrangements by which the radioactive substance is controlled and by which the procedures are controlled;

- (m) except in the case of an assessment relating to transport, information about the size and distribution of the population in the vicinity of premises to which the report relates;
- (n) an assessment of the area which is likely to be affected by the dispersal of any radioactive substance as a result of any radiation emergency and the period of time over which such dispersal is likely to take place;
- (o) an assessment of the likely exposures to ionising radiation of any person or class of persons as a result of any radiation emergency; and
- (p) an assessment of the necessity for an emergency plan to be prepared by the operator or carrier.

SCHEDULE 6

Regulation 6(5)

Further Particulars that the Executive may require

A further assessment and report may be required under regulation 6(5) in respect of the following matters:—

- (a) the analysis carried out to establish the likely consequences of any hazard, including the likely doses of ionising radiation to which members of the public might be exposed, and the probability of the occurrence of such hazard;
- (b) the number of persons whose health or safety might be affected by the hazard;
- (c) the management systems and staffing arrangements by which any hazard is to be or is controlled;
- (d) the safety systems, procedures and monitoring systems by which any hazard is to be or is controlled;
- (e) the qualifications, experience and training of staff concerned;
- (f) the design, construction, operation or maintenance of any equipment (including the incorporation of adequate safety or reliability features of such equipment) which is used for the purposes of intervention or which is used to control any hazard;
- (g) the design and operating documentation;
- (h) the design and operation of containment and pressure systems;
- (i) the protection of persons from the effects of loss of containment; and
- (j) the procedures for the reporting of and learning from radiation emergencies.

SCHEDULE 7

Regulations 7(2), 8(2) and 9(3)

Information to be included in Emergency Plans

Part I

Information to be included in an operator's emergency plan

The information referred to in regulation 7(2) is as follows:

- (a) the names or positions of persons authorised to set emergency procedures in motion and the person in charge of and co-ordinating the on-site mitigatory action;

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- (b) the name or position of the person with responsibility for liaison with the Executive in relation to the preparation of the off-site emergency plan;
- (c) for reasonably foreseeable conditions or events which could be significant in bringing about a radiation emergency, a description of the action which should be taken to control the conditions or events and to limit their consequences, including a description of the safety equipment and the resources available;
- (d) the arrangements for limiting the risks to persons on the premises including how warnings are to be given and the actions persons are expected to take on receipt of a warning;
- (e) the arrangements for providing early warning of the incident to the Executive in relation to setting the off-site emergency plan in motion, the type of information which should be contained in an initial warning and the arrangements for the provision of more detailed information as it becomes available;
- (f) the arrangements for providing assistance with off-site mitigatory action; and
- (g) the arrangements for emergency exposures including the dose levels which have been determined as appropriate for the purposes of putting into effect the emergency plan.

Part II

Information to be included in a carrier's emergency plan

The information referred to in regulation 8(2) is as follows:

- (a) the names or positions of persons authorised to set emergency procedures in motion and the person in charge of and co-ordinating the mitigatory action;
- (b) for reasonably foreseeable conditions or events which could be significant in bringing about a radiation emergency, a description of the action which should be taken to control the conditions or events and to limit their consequences, including a description of the safety equipment and the resources available;
- (c) the arrangements for providing early warning of the incident, the type of information which should be contained in an initial warning and the arrangements for the provision of more detailed information as it becomes available; and
- (d) the arrangements for emergency exposures including the dose levels which have been determined as appropriate for the purposes of putting into effect the emergency plan.

Part III

Information to be included in an off-site emergency plan

The information referred to in regulation 9(3) is as follows:—

- (a) the names or positions of persons authorised to set emergency procedures in motion and of persons authorised to take charge of and co-ordinate the off-site mitigatory action;
- (b) the arrangements for receiving early warning of incidents, and alert and call-out procedures;
- (c) the arrangements for co-ordinating resources necessary to implement the off-site emergency plan;
- (d) the arrangements for providing assistance with on-site mitigatory action;
- (e) the arrangements for off-site mitigatory action;

- (f) the arrangements for providing the public with specific information relating to the emergency and the behaviour which it should adopt; and
- (g) the arrangements for emergency exposures including the dose levels which have been determined as appropriate for the purposes of putting into effect the emergency plan.

SCHEDULE 8

Regulations 7(4) and (5); 8(5) and (6); and
9(11) and (12)

Principles and purposes of intervention

Part I

Principles to which emergency plans shall have regard

An emergency plan drawn up pursuant to regulation 7, 8 or 9 respectively shall, in so far as it applies to any radiation emergency, be drawn up having regard to the following principles—

- (a) the intervention shall be undertaken only if the reduction in the detriment due to the radiation resulting from the radiation emergency is sufficient to justify the harm and costs, including the social costs, of the intervention; and
- (b) the form, scale and duration of the intervention shall be carried out in such a way as to ensure that exposures to radiation are kept as low as is reasonably practicable so that the benefit of the reduction in health detriment less the detriment associated with the intervention will be maximised.

Part II

Purposes of intervention

The purposes of intervention referred to in regulations 7(5), 8(6) and regulation 9(12) are—

- (a) reducing or stopping at source direct radiation and the emission of radionuclides;
- (b) reducing the transfer of radioactive substances to individuals from the environment; and
- (c) reducing the exposure and organising the treatment of persons who have been subject to exposure to radiation.

SCHEDULE 9

Regulation 16(1)

Prior information to be supplied and made publicly available

1. Basic facts about radioactivity and its effects on persons and on the environment.
2. The various types of radiation emergency covered and their consequences for the general public and the environment.
3. Emergency measures envisaged to alert, protect and assist the general public in the event of a radiation emergency.
4. Appropriate information on action to be taken by the general public in the event of a radiation emergency.

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5. The authority or authorities responsible for implementing the emergency measures and action referred to in paragraphs 3 and 4.

SCHEDULE 10

Regulation 17(4)

Information to be supplied in the event of a Radiation Emergency

1. Information on the type of emergency which has occurred, and, where possible, its characteristics, for example, its origin, extent and probable development.

2. Advice on health protection measures, which, depending on the type of emergency, might include—

- (a) any restrictions on the consumption of certain foodstuffs and water supply likely to be contaminated;
- (b) any basic rules on hygiene and decontamination;
- (c) any recommendation to stay indoors;
- (d) the distribution and use of protective substances;
- (e) any evacuation arrangements;
- (f) special warnings for certain population groups.

3. Any announcements recommending co-operation with instructions or requests by the competent authorities.

4. Where an occurrence which is likely to give rise to a release of radioactivity or ionising radiation has happened but no release has yet taken place, the information and advice should include the following—

- (a) an invitation to tune in to radio or television;
- (b) preparatory advice to establishments with particular collective responsibilities; and
- (c) recommendations to occupational groups particularly affected.

5. If time permits, information setting out the basic facts about radioactivity and its effects on persons and on the environment.

SCHEDULE 11

Regulation 21

Amendment of Regulations

Fire Certificates (Special Premises) Regulations (Northern Ireland) 1991

1. For paragraph 13 of Schedule 1 to the Fire Certificates (Special Premises) Regulations (Northern Ireland) 1991⁽¹⁾ there shall be substituted—

“13. Premises to which the Radiation (Emergency Preparedness and Public Information) Regulations (Northern Ireland) 2001 apply by virtue of regulation 3 of those Regulations.”.

(1) [S.R. 1991 No. 446](#)

Ionising Radiations Regulations (Northern Ireland) 2000

2. The 2000 Regulations shall be amended in accordance with paragraphs 3 to 7.

3. In regulation 35(1), after the words “these Regulations” there shall be inserted the words “or of the Radiation (Emergency Preparedness and Public Information) Regulations (Northern Ireland) 2001”.

4. After regulation 35, there shall be inserted the following regulation—

“Enforcement

35A. Insofar as any provision of regulation 21 is made under section 2(2) of the European Communities Act 1972, Articles—

- (a) 18 to 23 (approval of codes of practice and enforcement);
- (b) 25 (provisions supplementary to Articles 23 and 24) and 26 (appeal against improvement or prohibition notice), so far as they relate to an improvement notice;
- (c) 28 (power to indemnify inspectors); and
- (d) 31 to 39 (provisions as to offences), of the Health and Safety at Work (Northern Ireland) Order 1978 shall apply to that provision as if that provision had been made under Article 17 of that Order.”.

5. After paragraph (6) of regulation 36 there shall be inserted the following paragraph—

“(7) Where a contravention of these Regulations by any person is due to the act or default of some other person, that other person shall be guilty of the offence which would, but for any defence under this regulation available to the first-mentioned person, be constituted by the act or default.”.

6. In paragraph 6 of Schedule 4, after “trainee” there shall be inserted the words “referred to in paragraphs 1 or 3”.

7. In paragraph 19 of Schedule 4, in place of “pursuant to regulation 11(2)” there shall be substituted “in accordance with regulation 11(1)”.

Reporting of Injuries, Diseases and Dangerous Occurrences Regulations (Northern Ireland) 1997

8. In Schedule 7 of the Reporting of Injuries, Diseases and Dangerous Occurrences Regulations (Northern Ireland) 1997(2)—

- (a) in Column 1 for the words “Ionising Radiations Regulations (Northern Ireland) 1985” there shall be substituted “Ionising Radiations Regulations (Northern Ireland) 2000”;
- (b) in Column 1 after the final entry there shall be added: “Radiation (Emergency Preparedness and Public Information) Regulations (Northern Ireland) 2001.”;
- (c) in Column 2 for the words “S.R. 1985 No. 273” there shall be substituted “S.R. 2000 No. 375”; and
- (d) in Column 2 after the final entry there shall be added: “S.R. 2001 No. 436.”.

(2) S.R. 1997 No. 455