DRAFT 2 06/02/14

absorption) . (e)							
U-234 . (slow . lung . absorption) . (f)	.	4.0X10 ^{1}	1.1X10 ^{3}	6.0X10 $^{-3}$	1.6X10 $^{-1}$	2.3X10 $^{-4}$	6.2X10 $^{-3}$
U-235 . (all . lung . absorption . types) . (a),(d),(e),(f)	.	Unlimited	Unlimited	Unlimited	Unlimited	8.0X10 $^{-8}$	2.2X10 $^{-6}$
U-236 . (fast . lung . absorption) . (d)	.	Unlimited	Unlimited	Unlimited	Unlimited	2.4X10 $^{-6}$	6.5X10 $^{-5}$
U-236 . (medium . lung . absorption) . (e)	.	4.0X10 ^{1}	1.1X10 ^{3}	2.0X10 $^{-2}$	5.4X10 $^{-1}$	2.4X10 $^{-6}$	6.5X10 $^{-5}$
U-236 . (slow . lung . absorption) . (f)	.	4.0X10 ^{1}	1.1X10 ^{3}	6.0X10 $^{-3}$	1.6X10 $^{-1}$	2.4X10 $^{-6}$	6.5X10 $^{-5}$
U-238 . (all . lung . absorption . types) . (d),(e),(f)	.	Unlimited	Unlimited	Unlimited	Unlimited	1.2X10 $^{-8}$	3.4X10 $^{-7}$
U . (nat)	.	Unlimited	Unlimited	Unlimited	Unlimited	2.6X10 $^{-8}$	7.1X10 $^{-7}$
U . (enriched . to . 20% . or . less) . (g)	.	Unlimited	Unlimited	Unlimited	Unlimited	See . Table . 17A-4	See . Table . 17A-4
U . (dep)	.	Unlimited	Unlimited	Unlimited	Unlimited	See . Table . 17A-4	(See . Table . 17A-3)
V-48	Vanadium . (23)	4.0X10 $^{-1}$	1.1X10 ^{1}	4.0X10 $^{-1}$	1.1X10 ^{1}	6.3X10 ^{3}	1.7X10 ^{5}
V-49	.	4.0X10 ^{1}	1.1X10 ^{3}	4.0X10 ^{1}	1.1X10 ^{3}	3.0X10 ^{2}	8.1X10 ^{3}
W-178 . (a)	Tungsten . (74)	9.0	2.4X10 ^{2}	5.0	1.4X10 ^{2}	1.3X10 ^{3}	3.4X10 ^{4}
W-181	.	3.0X10 ^{1}	8.1X10 ^{2}	3.0X10 ^{1}	8.1X10 ^{2}	2.2X10 ^{2}	6.0X10 ^{3}
W-185	.	4.0X10 ^{1}	1.1X10 ^{3}	8.0X10 $^{-1}$	2.2X10 ^{1}	3.5X10 ^{2}	9.4X10 ^{3}
W-187	.	2.0	5.4X10 ^{1}	6.0X10 $^{-1}$	1.6X10 ^{1}	2.6X10 ^{4}	7.0X10 ^{5}
W-188 . (a)	.	4.0X10 $^{-1}$	1.1X10 ^{1}	3.0X10 $^{-1}$	8.1	3.7X10 ^{2}	1.0X10 ^{4}
Xe-122 .	Xenon . (54)	4.0X10 $^{-1}$	1.1X10 ^{1}	4.0X10 $^{-1}$	1.1X10 ^{1}	4.8X10	1.3X10

Comment [JJ23]: Correction of reference to appropriate table.

Comment [JJ24]: Correction of reference to appropriate table.

absorption) (d)							
U-236 (medium lung absorption) (e)	.	$4.0X10^{1}$	$1.1X10^{3}$	$2.0X10^{-2}$	$5.4X10^{-1}$	$2.4X10^{-6}$	$6.5X10^{-5}$
U-236 (slow lung absorption) (f)	.	$4.0X10^{1}$	$1.1X10^{3}$	$6.0X10^{-3}$	$1.6X10^{-1}$	$2.4X10^{-6}$	$6.5X10^{-5}$
U-238 . (all lung absorption types) (d),(e),(f)	.	Unlimited	Unlimited	Unlimited	Unlimited	$1.2X10^{-8}$	$3.4X10^{-7}$
U (nat)	.	Unlimited	Unlimited	Unlimited	Unlimited	$2.6X10^{-8}$	$7.1X10^{-7}$
U (enriched to 20%. or less) (g)	.	Unlimited	Unlimited	Unlimited	Unlimited	See Table 17A	See Table 17A4
U (dep)	.	Unlimited	Unlimited	Unlimited	Unlimited	See Table 17A4	(See Table 17A3)
V-48	Vanadium (23)	$4.0X10^{-1}$	$1.1X10^{1}$	$4.0X10^{-1}$	$1.1X10^{1}$	$6.3X10^{3}$	$1.7X10^{5}$
V-49	.	$4.0X10^{1}$	$1.1X10^{3}$	$4.0X10^{1}$	$1.1X10^{3}$	$3.0X10^{2}$	$8.1X10^{3}$
W-178 (a)	Tungsten (74)	9.0	$2.4X10^{2}$	5.0	$1.4X10^{2}$	$1.3X10^{3}$	$3.4X10^{4}$
W-181	.	$3.0X10^{1}$	$8.1X10^{2}$	$3.0X10^{1}$	$8.1X10^{2}$	$2.2X10^{2}$	$6.0X10^{3}$
W-185	.	$4.0X10^{1}$	$1.1X10^{3}$	$8.0X10^{-1}$	$2.2X10^{1}$	$3.5X10^{2}$	$9.4X10^{3}$

Symbol.of radionuclide	Element.and. atomic number	A_1 (TBq)	A_1 (Ci)b	A_2 (TBq)	A_2 (Ci)b	Specific activity	Specific activity
.	.	.	.	.	.	(TBq/g)	(Ci/g)
U. (nat)	.	Unlimited	Unlimited	Unlimited	Unlimited	$2.6X10^{-8}$	$7.1X10^{-7}$
U. (enriched. to. 20%. or. less). (g)	.	Unlimited	Unlimited	Unlimited	Unlimited	See. Table. A-4	See. Table. A-4
U. (dep)	.	Unlimited	Unlimited	Unlimited	Unlimited	See. Table. A-4	(See. Table. A-3)
V-48	Vanadium. (23)	$4.0X10^{-1}$	$1.1X10^{1}$	$4.0X10^{-1}$	$1.1X10^{1}$	$6.3X10^{3}$	$1.7X10^{5}$
V-49	.	$4.0X10^{1}$	$1.1X10^{3}$	$4.0X10^{1}$	$1.1X10^{3}$	$3.0X10^{2}$	$8.1X10^{3}$
W-178. (a)	Tungsten. (74)	9.0	$2.4X10^{2}$	5.0	$1.4X10^{2}$	$1.3X10^{3}$	$3.4X10^{4}$
W-181	.	$3.0X10^{1}$	$8.1X10^{2}$	$3.0X10^{1}$	$8.1X10^{2}$	$2.2X10^{2}$	$6.0X10^{3}$
W-185	.	$4.0X10^{1}$	$1.1X10^{3}$	$8.0X10^{-1}$	$2.2X10^{1}$	$3.5X10^{2}$	$9.4X10^{3}$
W-187	.	2.0	$5.4X10^{1}$	$6.0X10^{-1}$	$1.6X10^{1}$	$2.6X10^{4}$	$7.0X10^{5}$
W-188. (a)	.	$4.0X10^{-1}$	$1.1X10^{1}$	$3.0X10^{-1}$	8.1	$3.7X10^{2}$	$1.0X10^{4}$
Xe-122. (a)	Xenon. (54)	$4.0X10^{-1}$	$1.1X10^{1}$	$4.0X10^{-1}$	$1.1X10^{1}$	$4.8X10^{4}$	$1.3X10^{6}$
Xe-123	.	2.0	$5.4X10^{1}$	$7.0X10^{-1}$	$1.9X10^{1}$	$4.4X10^{5}$	$1.2X10^{7}$
Xe-127	.	4.0	$1.1X10^{2}$	2.0	$5.4X10^{1}$	$1.0X10^{3}$	$2.8X10^{4}$
Xe-131m	.	$4.0X10^{1}$	$1.1X10^{3}$	$4.0X10^{1}$	$1.1X10^{3}$	$3.1X10^{3}$	$8.4X10^{4}$
Xe-133	.	$2.0X10^{1}$	$5.4X10^{2}$	$1.0X10^{1}$	$2.7X10^{2}$	$6.9X10^{3}$	$1.9X10^{5}$
Xe-135	.	3.0	$8.1X10^{1}$	2.0	$5.4X10^{1}$	$9.5X10^{4}$	$2.6X10^{6}$
Y-87. (a)	Yttrium. (39)	1.0	$2.7X10^{1}$	1.0	$2.7X10^{1}$	$1.7X10^{4}$	$4.5X10^{5}$
Y-88	.	$4.0X10^{-1}$	$1.1X10^{1}$	$4.0X10^{-1}$	$1.1X10^{1}$	$5.2X10^{2}$	$1.4X10^{4}$
Y-90	.	$3.0X10^{-1}$	8.1	$3.0X10^{-1}$	8.1	$2.0X10^{4}$	$5.4X10^{5}$
Y-91	.	$6.0X10^{-1}$	$1.6X10^{1}$	$6.0X10^{-1}$	$1.6X10^{1}$	$9.1X10^{2}$	$2.5X10^{4}$
Y-91m	.	2.0	$5.4X10^{1}$	2.0	$5.4X10^{1}$	$1.5X10^{6}$	$4.2X10^{7}$
Y-92	.	$2.0X10^{-1}$	5.4	$2.0X10^{-1}$	5.4	$3.6X10^{5}$	$9.6X10^{6}$
Y-93	.	$3.0X10^{-1}$	8.1	$3.0X10^{-1}$	8.1	$1.2X10^{5}$	$3.3X10^{6}$
Yb-169	Ytterbium. (70)	4.0	$1.1X10^{2}$	1.0	$2.7X10^{1}$	$8.9X10^{2}$	$2.4X10^{4}$
Zn-65	Zinc. (30)	2.0	$5.4X10^{1}$	2.0	$5.4X10^{1}$	$3.0X10^{2}$	$8.2X10^{3}$
Zn-69	.	3.0	$8.1X10^{1}$	$6.0X10^{-1}$	$1.6X10^{1}$	$1.8X10^{6}$	$4.9X10^{7}$
Zn-69m. (a)	.	3.0	$8.1X10^{1}$	$6.0X10^{-1}$	$1.6X10^{1}$	$1.2X10^{5}$	$3.3X10^{6}$
Zr-88	Zirconium. (40)	3.0	$8.1X10^{1}$	3.0	$8.1X10^{1}$	$6.6X10^{2}$	$1.8X10^{4}$
Zr-93	.	Unlimited	Unlimited	Unlimited	Unlimited	$9.3X10^{-5}$	$2.5X10^{-3}$
Zr-95. (a)	.	2.0	$5.4X10^{1}$	$8.0X10^{-1}$	$2.2X10^{1}$	$7.9X10^{2}$	$2.1X10^{4}$
Zr-97. (a)	.	$4.0X10^{-1}$	$1.1X10^{1}$	$4.0X10^{-1}$	$1.1X10^{1}$	$7.1X10^{4}$	$1.9X10^{6}$

Notes:

a A1 and/or A2 values include contributions from daughter nuclides with half-lives less than 10 days.

b The values of A_1 and A_2 in Curies (Ci) are approximate and for information only; the regulatory standard units are Terabecquerels (TBq) (see Appendix 17A – Determination of A_1 and A_2, Section 17A1)