

Table 4 - 14 (Page 1 of 3)
 External Dose Factors for Standing on Contaminated Ground
 DFG_{ij} (mrem/hr per pCi/ m²)

<u>Element</u>	<u>Whole Body Dose Factor</u>	<u>Reference</u>	<u>Element</u>	<u>Dose Factor</u>	<u>Reference</u>
H-3	0.00E+00	6	Be-7	5.95E-10	99
C-14	0.00E+00	6	F-18	1.19E-08	99
Na-22	2.42E-08	99	Na-24	2.50E-08	6
Mg-27	1.14E-08	99	Mg-28	1.48E-08	99
Al-26	2.95E-08	99	Al-28	2.00E-08	99
P-32	0.00E+00	6	Cl-38	1.70E-08	99
Ar-41	1.39E-08	99	K-40	2.22E-09	99
K-42	4.64E-09	99	K-43	1.19E-08	99
Ca-47	1.14E-08	99	Sc-44	2.50E-08	99
Sc-46m	1.21E-09	99	Sc-46	2.24E-08	99
Sc-47	1.46E-09	99	Ti-44	1.95E-09	99
V-48	3.21E-08	99	Cr-51	2.20E-10	6
Mn-52m	2.79E-08	99	Mn-52	3.80E-08	99
Mn-54	5.80E-09	6	Mn-56	1.10E-08	6
Fe-52	9.12E-09	99	Fe-55	0.00E+00	6
Fe-59	8.00E-09	6	Co-57	1.65E-09	99
Co-58	7.00E-09	6	Co-60	1.70E-08	6
Ni-63	0.00E+00	6	Ni-65	3.70E-09	6
Cu-64	1.50E-09	6	Cu-67	1.52E-09	99
Cu-68	8.60E-09 ¹	--	Zn-65	4.00E-09	6
Zn-69m	5.06E-09	99	Zn-69	0.00E+00	6
Ga-66	2.70E-08	99	Ga-67	1.89E-09	99
Ga-68	1.24E-08	99	Ga-72	3.00E-08	99
Ge-77	1.34E-08	99	As-72	2.23E-08	99
As-73	1.16E-10	99	As-74	9.41E-09	99
As-76	6.46E-09	99	As-77	1.79E-10	99
Se-73	1.38E-08	99	Se-75	4.98E-09	99
Br-77	3.84E-09	99	Br-80	2.01E-09	99
Br-82	3.00E-08	99	Br-83	6.40E-11	6
Br-84	1.20E-08	6	Br-85	0.00E+00	6
Kr-79	3.07E-09	99	Kr-81	1.59E-10	99
Kr-83m	1.42E-11	99	Kr-85m	2.24E-09	99
Kr-85	1.35E-10	99	Kr-87	1.03E-08	99
Kr-88	2.07E-08	99	Kr-90	1.56E-08	99
Rb-84	1.07E-08	99	Rb-86	6.30E-10	6
Rb-87	0.00E+00	99	Rb-88	3.50E-09	6
Rb-89	1.50E-08	6	Sr-85	6.16E-09	99
Sr-87m	3.92E-09	99	Sr-89	5.60E-13	6
Sr-90	1.84E-11	99	Sr-91	7.10E-09	6
Sr-92	9.00E-09	6	Y-86	4.00E-08	99
Y-87	5.53E-09	99	Y-88	2.88E-08	99
Y-90	2.20E-12	6	Y-91m	3.80E-09	6
Y-91	2.40E-11	6	Y-92	1.60E-09	6
Y-93	5.70E-10	6	Zr-95	5.00E-09	6
Zr-97	5.50E-09	6	Nb-94	1.84E-08	99
Nb-95	5.10E-09	6	Nb-97m	8.57E-09	99
Nb-97	8.48E-09	99	Mo-99	1.90E-09	6
Tc-99m	9.60E-10	6	Tc-101	2.70E-09	6
Tc-104	1.83E-08 ¹	--	Ru-97	2.99E-09	99
Ru-103	3.60E-09	6	Ru-105	4.50E-09	6
Ru/Rh-106	5.76E-09 ³	6, 99	Pc-109	3.80E-10	99
Cc-109	1.12E-10	99	In-111	5.11E-09	99
In-115m	2.01E-09	99	In-116	0.00E+00 ²	--
Sn-113	1.15E-09	99	Sn-117m	1.96E-08	99
Sn-119m	7.05E-11	99	Sb-117	0.00E+00 ²	--
Sb-122	2.71E-09 ¹	--	Sb-124	1.16E-08 ¹	--
Sb-125	4.56E-09	99	Sb-126	7.13E-10	99
Ag-108m	1.92E-08	99	Ag-108	1.14E-09	99
Ag-110m	1.80E-08	6	Ag-111	6.75E-10	99
Te-121m	2.65E-09	99	Te-121	6.75E-09	99

Table 4 - 14 (Page 2 of 3)
 External Dose Factors for Standing on Contaminated Ground
 DFG_{ij} (mrem/hr per pCi/ m²)

<u>Element</u>	<u>Whole Body Dose Factor</u>	<u>Reference</u>	<u>Element</u>	<u>Dose Factor</u>	<u>Reference</u>
Te-123m	1.88E-09	99	Te-125m	3.50E-11	6
Te-125	0.00E+00 ²	--	Te-127m	1.10E-12	6
Te-127	1.00E-11	6	Te-129m	7.70E-10	6
Te-129	7.10E-10	6	Te-131m	8.40E-09	6
Te-131	2.20E-09	6	Te-I-132	3.40E-09 ⁵	6
Te-134	1.05E-08	99	I-123	2.12E-09	99
I-124	1.23E-08	99	I-125	2.89E-10	99
I-130	1.40E-08	6	I-131	2.80E-09	6
I-133	3.70E-09	6	I-134	1.60E-08	6
I-135	1.20E-08	6	Xe-127	3.44E-09	99
Xe-129m	5.57E-10	99	Xe-131m	2.13E-10	99
Xe-133m	4.81E-10	99	Xe-133	5.91E-10	99
Xe-135m	5.23E-09	99	Xe-135	3.36E-09	99
Xe-137	4.26E-09	99	Xe-138	1.30E-08	99
Cs-129	3.39E-09	99	Cs-132	8.40E-09	99
Cs-134	1.20E-08	6	Cs-136	1.50E-08	6
Cs-137/Ba-137m	1.14E-08 ⁴	6, 99	Cs-138	2.10E-08	6
Cs-139	5.15E-09	99	Ba-131	5.74E-09	99
Ba-133m	8.10E-10	99	Ba-133	4.85E-09	99
Ba-135m	7.26E-10	99	Ba-137m	7.17E-09	99
Ba-137	0.00E+00 ²	--	Ba-139	2.40E-09	6
Ba-La-140	1.71E-08 ⁶	6	Ba-141	4.30E-09	6
Ba-142	7.90E-09	6	La-142	1.50E-08	6
Ce-139	2.04E-09	99	Ce-141	5.50E-10	6
Ce-143	2.20E-09	6	Ce-Pr-144	5.20E-10 ⁷	6
Pr-142	1.84E-09	99	Pr-143	0.00E+00	6
Nc-147	1.00E-09	6	Nc-149	5.32E-09	99
Pm-145	3.38E-10	99	Pm-148m	2.35E-08	99
Pm-148	7.22E-09	99	Pm-149	5.32E-10	99
Sm-153	8.95E-10	99	Eu-152	1.30E-08	99
Eu-154	1.41E-08	99	Eu-155	8.27E-10	99
Gd-153	1.46E-09	99	Dy-157	4.39E-09	99
Er-169	6.12E-14	99	Er-171	5.11E-09	99
Tm-170	3.41E-10	99	Yb-169	4.12E-09	99
Yb-175	4.94E-10	99	Lu-177	4.60E-10	99
Hf-181	6.67E-09	99	Ta-182	1.42E-08	99
Ta-183	2.93E-09 ¹	--	W-187	3.10E-09	6
Re-188	1.89E-09	99	Os-191	9.83E-10	99
Ir-194	2.31E-09	99	Pt-195m	9.79E-10	99
Pt-197	3.57E-10	99	Au-195m	2.54E-09	99
Au-195	1.14E-09	99	Au-198	5.19E-09	99
Au-199	1.18E-09	99	Hg-197	9.33E-10	99
Hg-203	2.89E-09	99	Tl-201	1.24E-09	99
Tl-206	0.00E+00 ²	--	Tl-208	3.58E-08	99
Pb-203	3.88E-09	99	Pb-210	3.57E-11	99
Pb-212	1.91E-09	99	Pb-214	3.18E-09	99
Bi-206	3.74E-08	99	Bi-207	1.77E-08	99
Bi-214	1.71E-08	99	Ra-226	8.78E-11	99
Th-232	8.14E-12	99	U-238	7.98E-12	99
Np-239	9.50E-10	6	Am-241	3.48E-10	99

¹ Valued derived by comparing the percentage and MeV of the nuclide's gammas and then comparing to Cesium-137, as a value was not available in the literature.

² 0.0 due to low yield and short half-life. A value was not available in the literature.

Table 4 - 14 (Page 3 of 3)
External Dose Factors for Standing on Contaminated Ground
DFG_{ij} (mrem/hr per pCi/ m²)

- 3 Value is the sum of Ru-106 (1.50E-9) and Rh-106 (4.26E-9). The Rh-106 value is from Reference 99 and the Ru-106 value is from Reference 6.
- 4 Value is the sum of Cs-137 (4.20E-9) and Ba-137m (7.17E-9). The values are from references 6 and 99, respectively.
- 5 Value is the sum of Te-132 (1.70E-9) and I-132 (1.70E-9).
- 6 Value is the sum of Ba-140 (2.10E-9) and La-140 (1.50E-8) from reference 6. In Reference 6, see Table E-6.
- 7 Value is the sum of Ce-144 (3.20E-10) and Pr-144 (2.00E-10) from reference 6.

Note: Dose assessments for 10CFR20 and 40CFR190 compliance are made for an adult only.

Dose assessments for 10CFR50 Appendix are made using dose factors of Regulatory Guide 1.109 (Reference 6) for all age groups.

Table 4-15 (page 1 of 15)

Maximum Bi and Vi at or Beyond the Unrestricted Area Boundary for Kr-83m

Direction	Distance (meters)	Total Body	Gamma Air	
		Annual	Annual	500 hour
		V_i	B_i	b_i
		<u>(mrem*sec)</u>	<u>(mrad*sec)</u>	<u>(mrad*sec)</u>
		(yr* μ Ci)	(yr* μ Ci)	(yr* μ Ci)
N	1036	1.93E-10	1.43E-08	1.43E-08
NNE	1378	2.73E-10	4.24E-08	4.24E-08
NE	2408	3.21E-10	9.37E-08	9.37E-08
ENE	4450	2.73E-10	1.25E-07	1.25E-07
E	1996	2.54E-10	5.39E-08	5.39E-08
ESE	1465	2.64E-10	2.83E-08	2.83E-08
SE	969	2.32E-10	8.97E-09	8.97E-09
SSE	838	1.62E-10	6.53E-09	6.53E-09
S	829	1.70E-10	1.37E-08	1.37E-08
SSW	835	1.51E-10	8.61E-09	8.61E-09
SW	628	2.16E-10	4.62E-09	4.62E-09
WSW	533	2.05E-10	5.53E-10	5.53E-10
W	524	1.70E-10	4.24E-10	4.24E-10
WNW	643	1.23E-10	1.11E-09	1.11E-09
NW	762	1.06E-10	1.41E-09	1.41E-09
NNW	890	1.27E-10	2.89E-09	2.89E-09

Table 4-15 (page 2 of 15)

Maximum Bi and Vi at or Beyond the Unrestricted Area Boundary for Kr-85m

Direction	Distance (meters)	Total Body	Gamma Air	
		Annual	Annual	500 hour
		V_i	B_i	b_i
		<u>(mrem*sec)</u>	<u>(mrad*sec)</u>	<u>(mrad*sec)</u>
		(yr* μ Ci)	(yr* μ Ci)	(yr* μ Ci)
N	1036	2.60E-05	3.86E-05	3.86E-05
NNE	1378	2.51E-05	3.72E-05	3.72E-05
NE	2408	1.69E-05	2.51E-05	2.51E-05
ENE	4450	8.36E-06	1.24E-05	1.24E-05
E	1996	1.69E-05	2.50E-05	2.50E-05
ESE	1465	2.40E-05	3.56E-05	3.56E-05
SE	969	3.18E-05	4.72E-05	4.72E-05
SSE	838	2.60E-05	3.86E-05	3.86E-05
S	829	2.66E-05	3.96E-05	3.96E-05
SSW	835	2.54E-05	3.78E-05	3.78E-05
SW	628	3.90E-05	5.79E-05	5.79E-05
WSW	533	4.13E-05	6.13E-05	6.13E-05
W	524	3.52E-05	5.23E-05	5.23E-05
WNW	643	2.37E-05	3.52E-05	3.52E-05
NW	762	1.96E-05	2.91E-05	2.91E-05
NNW	890	2.12E-05	3.15E-05	3.15E-05

Table 4-15 (page 3 of 15)

Maximum Bi and Vi at or Beyond the Unrestricted Area Boundary for Kr-85

Direction	Distance (meters)	Total Body Annual V_i (mrem*sec) (yr* μ Ci)	Gamma Air Annual B_i (mrad*sec) (yr* μ Ci)	500 hour b_i (mrad*sec) (yr* μ Ci)
N	1036	4.71E-07	7.14E-07	7.14E-07
NNE	1378	4.35E-07	6.59E-07	6.59E-07
NE	2408	2.79E-07	4.23E-07	4.23E-07
ENE	4450	1.30E-07	1.97E-07	1.97E-07
E	1996	2.87E-07	4.35E-07	4.35E-07
ESE	1465	4.16E-07	6.31E-07	6.31E-07
SE	969	5.76E-07	8.72E-07	8.72E-07
SSE	838	4.85E-07	7.35E-07	7.35E-07
S	829	5.04E-07	7.64E-07	7.64E-07
SSW	835	4.83E-07	7.32E-07	7.32E-07
SW	628	7.33E-07	1.11E-06	1.11E-06
WSW	533	7.82E-07	1.19E-06	1.19E-06
W	524	6.68E-07	1.01E-06	1.01E-06
WNW	643	4.47E-07	6.77E-07	6.77E-07
NW	762	3.68E-07	5.58E-07	5.58E-07
NNW	890	3.94E-07	5.96E-07	5.96E-07

Table 4-15 (page 4 of 15)

Maximum Bi and Vi at or Beyond the Unrestricted Area Boundary for Kr-87

Direction	Distance (meters)	Total Body	Gamma Air	
		Annual	Annual	500 hour
		V_i	B_i	b_i
		<u>(mrem*sec)</u>	<u>(mrad*sec)</u>	<u>(mrad*sec)</u>
		(yr* μ Ci)	(yr* μ Ci)	(yr* μ Ci)
N	1036	1.56E-04	2.35E-04	2.35E-04
NNE	1378	1.42E-04	2.13E-04	2.13E-04
NE	2408	8.74E-05	1.31E-04	1.31E-04
ENE	4450	3.76E-05	5.66E-05	5.66E-05
E	1996	9.12E-05	1.37E-04	1.37E-04
ESE	1465	1.35E-04	2.04E-04	2.04E-04
SE	969	1.92E-04	2.88E-04	2.88E-04
SSE	838	1.63E-04	2.45E-04	2.45E-04
S	829	1.70E-04	2.55E-04	2.55E-04
SSW	835	1.62E-04	2.44E-04	2.44E-04
SW	628	2.48E-04	3.73E-04	3.73E-04
WSW	533	2.66E-04	4.01E-04	4.01E-04
W	524	2.27E-04	3.41E-04	3.41E-04
WNW	643	1.51E-04	2.27E-04	2.27E-04
NW	762	1.24E-04	1.86E-04	1.86E-04
NNW	890	1.32E-04	1.98E-04	1.98E-04

Table 4-15 (page 5 of 15)

Maximum Bi and Vi at or Beyond the Unrestricted Area Boundary for Kr-88

Direction	Distance (meters)	Total Body	Gamma Air	
		Annual	Annual	500 hour
		V_i	B_i	b_i
		<u>(mrem*sec)</u>	<u>(mrad*sec)</u>	<u>(mrad*sec)</u>
		(yr*μCi)	(yr*μCi)	(yr*μCi)
N	1036	4.07E-04	6.11E-04	6.11E-04
NNE	1378	3.70E-04	5.56E-04	5.56E-04
NE	2408	2.38E-04	3.57E-04	3.57E-04
ENE	4450	1.11E-04	1.67E-04	1.67E-04
E	1996	2.47E-04	3.71E-04	3.71E-04
ESE	1465	3.56E-04	5.35E-04	5.35E-04
SE	969	4.95E-04	7.44E-04	7.44E-04
SSE	838	4.23E-04	6.35E-04	6.35E-04
S	829	4.44E-04	6.67E-04	6.67E-04
SSW	835	4.26E-04	6.40E-04	6.40E-04
SW	628	6.36E-04	9.54E-04	9.54E-04
WSW	533	6.80E-04	1.02E-03	1.02E-03
W	524	5.81E-04	8.72E-04	8.72E-04
WNW	643	3.89E-04	5.84E-04	5.84E-04
NW	762	3.21E-04	4.82E-04	4.82E-04
NNW	890	3.42E-04	5.14E-04	5.14E-04

Table 4-15 (page 6 of 15)

Maximum Bi and Vi at or Beyond the Unrestricted Area Boundary for Kr-89

Direction	Distance (meters)	Total Body	Gamma Air	
		Annual	Annual	500 hour
		V_i	B_i	b_i
		<u>(mrem*sec)</u>	<u>(mrad*sec)</u>	<u>(mrad*sec)</u>
		(yr*μCi)	(yr*μCi)	(yr*μCi)
N	1036	2.85E-04	4.28E-04	4.28E-04
NNE	1378	2.47E-04	3.71E-04	3.71E-04
NE	2408	1.13E-04	1.70E-04	1.70E-04
ENE	4450	2.89E-05	4.35E-05	4.35E-05
E	1996	1.23E-04	1.85E-04	1.85E-04
ESE	1465	2.23E-04	3.34E-04	3.34E-04
SE	969	3.62E-04	5.45E-04	5.45E-04
SSE	838	3.08E-04	4.63E-04	4.63E-04
S	829	3.11E-04	4.67E-04	4.67E-04
SSW	835	2.92E-04	4.39E-04	4.39E-04
SW	628	5.16E-04	7.75E-04	7.75E-04
WSW	533	5.77E-04	8.68E-04	8.68E-04
W	524	4.85E-04	7.29E-04	7.29E-04
WNW	643	3.04E-04	4.57E-04	4.57E-04
NW	762	2.37E-04	3.55E-04	3.55E-04
NNW	890	2.46E-04	3.70E-04	3.70E-04

Table 4-15 (page 7 of 15)

Maximum Bi and Vi at or Beyond the Unrestricted Area Boundary for Xe-131m

Direction	Distance (meters)	Total Body Gamma Air		
		Annual	Annual	500 hour
		V_i	B_i	b_i
		<u>(mrem*sec)</u>	<u>(mrad*sec)</u>	<u>(mrad*sec)</u>
		(yr* μ Ci)	(yr* μ Ci)	(yr* μ Ci)
N	1036	5.60E-06	8.50E-06	8.50E-06
NNE	1378	5.55E-06	8.53E-06	8.53E-06
NE	2408	3.99E-06	6.29E-06	6.29E-06
ENE	4450	2.18E-06	3.58E-06	3.58E-06
E	1996	3.86E-06	6.02E-06	6.02E-06
ESE	1465	5.32E-06	8.18E-06	8.18E-06
SE	969	6.83E-06	1.04E-05	1.04E-05
SSE	838	5.53E-06	8.36E-06	8.36E-06
S	829	5.67E-06	8.57E-06	8.57E-06
SSW	835	5.39E-06	8.15E-06	8.15E-06
SW	628	8.24E-06	1.24E-05	1.24E-05
WSW	533	8.66E-06	1.30E-05	1.30E-05
W	524	7.39E-06	1.11E-05	1.11E-05
WNW	643	5.00E-06	7.53E-06	7.53E-06
NW	762	4.14E-06	6.25E-06	6.25E-06
NNW	890	4.51E-06	6.82E-06	6.82E-06

Table 4-15 (page 8 of 15)

Maximum Bi and Vi at or Beyond the Unrestricted Area Boundary for Xe-133m

Direction	Distance (meters)	Total Body Gamma Air		
		Annual	Annual	500 hour
		V_i	B_i	b_i
		<u>(mrem*sec)</u> (yr* μ Ci)	<u>(mrad*sec)</u> (yr* μ Ci)	<u>(mrad*sec)</u> (yr* μ Ci)
N	1036	4.54E-06	7.05E-06	7.05E-06
NNE	1378	4.43E-06	6.98E-06	6.98E-06
NE	2408	3.13E-06	5.11E-06	5.11E-06
ENE	4450	1.70E-06	2.91E-06	2.91E-06
E	1996	3.06E-06	4.91E-06	4.91E-06
ESE	1465	4.24E-06	6.69E-06	6.69E-06
SE	969	5.54E-06	8.60E-06	8.60E-06
SSE	838	4.54E-06	7.01E-06	7.01E-06
S	829	4.68E-06	7.23E-06	7.23E-06
SSW	835	4.46E-06	6.88E-06	6.88E-06
SW	628	6.79E-06	1.05E-05	1.05E-05
WSW	533	7.17E-06	1.10E-05	1.10E-05
W	524	6.12E-06	9.39E-06	9.39E-06
WNW	643	4.12E-06	6.34E-06	6.34E-06
NW	762	3.41E-06	5.25E-06	5.25E-06
NNW	890	3.69E-06	5.70E-06	5.70E-06

Table 4-15 (page 9 of 15)

Maximum Bi and Vi at or Beyond the Unrestricted Area Boundary for Xe-133

Direction	Distance (meters)	Total Body	Gamma Air	
		Annual	Annual	500 hour
		V_i	B_i	b_i
		<u>(mrem*sec)</u>	<u>(mrad*sec)</u>	<u>(mrad*sec)</u>
		(yr* μ Ci)	(yr* μ Ci)	(yr* μ Ci)
N	1036	3.86E-06	5.83E-06	5.83E-06
NNE	1378	3.98E-06	6.08E-06	6.08E-06
NE	2408	3.02E-06	4.74E-06	4.74E-06
ENE	4450	1.76E-06	2.86E-06	2.86E-06
E	1996	2.85E-06	4.42E-06	4.42E-06
ESE	1465	3.82E-06	5.85E-06	5.85E-06
SE	969	4.71E-06	7.11E-06	7.11E-06
SSE	838	3.73E-06	5.61E-06	5.61E-06
S	829	3.79E-06	5.71E-06	5.71E-06
SSW	835	3.59E-06	5.40E-06	5.40E-06
SW	628	5.50E-06	8.25E-06	8.25E-06
WSW	533	5.72E-06	8.56E-06	8.56E-06
W	524	4.88E-06	7.30E-06	7.30E-06
WNW	643	3.32E-06	4.97E-06	4.97E-06
NW	762	2.77E-06	4.15E-06	4.15E-06
NNW	890	3.04E-06	4.58E-06	4.58E-06

Table 4-15 (page 10 of 15)

Maximum Bi and Vi at or Beyond the Unrestricted Area Boundary for Xe-135m

Direction	Distance (meters)	Total Body	Gamma Air	
		Annual	Annual	500 hour
		V_i (mrem*sec) (yr*μCi)	B_i (mrad*sec) (yr*μCi)	b_i (mrad*sec) (yr*μCi)
N	1036	7.99E-05	1.21E-04	1.21E-04
NNE	1378	7.23E-05	1.10E-04	1.10E-04
NE	2408	4.11E-05	6.23E-05	6.23E-05
ENE	4450	1.46E-05	2.21E-05	2.21E-05
E	1996	4.32E-05	6.55E-05	6.55E-05
ESE	1465	6.81E-05	1.03E-04	1.03E-04
SE	969	9.95E-05	1.51E-04	1.51E-04
SSE	838	8.38E-05	1.27E-04	1.27E-04
S	829	8.60E-05	1.30E-04	1.30E-04
SSW	835	8.18E-05	1.24E-04	1.24E-04
SW	628	1.31E-04	1.98E-04	1.98E-04
WSW	533	1.42E-04	2.15E-04	2.15E-04
W	524	1.20E-04	1.82E-04	1.82E-04
WNW	643	7.87E-05	1.19E-04	1.19E-04
NW	762	6.36E-05	9.64E-05	9.64E-05
NNW	890	6.76E-05	1.02E-04	1.02E-04

Table 4-15 (page 11 of 15)

Maximum Bi and Vi at or Beyond the Unrestricted Area Boundary for Xe-135

Direction	Distance (meters)	Total Body	Gamma Air	
		Annual	Annual	500 hour
		V_i	B_i	b_i
		<u>(mrem*sec)</u>	<u>(mrad*sec)</u>	<u>(mrad*sec)</u>
		(yr*μCi)	(yr*μCi)	(yr*μCi)
N	1036	4.50E-05	6.76E-05	6.76E-05
NNE	1378	4.26E-05	6.40E-05	6.40E-05
NE	2408	2.82E-05	4.24E-05	4.24E-05
ENE	4450	1.36E-05	2.05E-05	2.05E-05
E	1996	2.84E-05	4.27E-05	4.27E-05
ESE	1465	4.08E-05	6.12E-05	6.12E-05
SE	969	5.50E-05	8.26E-05	8.26E-05
SSE	838	4.55E-05	6.84E-05	6.84E-05
S	829	4.69E-05	7.05E-05	7.05E-05
SSW	835	4.48E-05	6.74E-05	6.74E-05
SW	628	6.85E-05	1.03E-04	1.03E-04
WSW	533	7.27E-05	1.09E-04	1.09E-04
W	524	6.22E-05	9.34E-05	9.34E-05
WNW	643	4.17E-05	6.26E-05	6.26E-05
NW	762	3.44E-05	5.17E-05	5.17E-05
NNW	890	3.71E-05	5.57E-05	5.57E-05

Table 4-15 (page 12 of 15)

Maximum Bi and Vi at or Beyond the Unrestricted Area Boundary for Xe-137

Direction	Distance (meters)	Total Body	Gamma Air	
		Annual	Annual	500 hour
		V_i	B_i	b_i
		<u>(mrem*sec)</u> (yr* μ Ci)	<u>(mrad*sec)</u> (yr* μ Ci)	<u>(mrad*sec)</u> (yr* μ Ci)
N	1036	2.34E-05	3.53E-05	3.53E-05
NNE	1378	2.04E-05	3.08E-05	3.08E-05
NE	2408	8.68E-06	1.31E-05	1.31E-05
ENE	4450	1.69E-06	2.55E-06	2.55E-06
E	1996	9.48E-06	1.43E-05	1.43E-05
ESE	1465	1.80E-05	2.73E-05	2.73E-05
SE	969	2.99E-05	4.53E-05	4.53E-05
SSE	838	2.51E-05	3.80E-05	3.80E-05
S	829	2.51E-05	3.79E-05	3.79E-05
SSW	835	2.34E-05	3.53E-05	3.53E-05
SW	628	4.28E-05	6.47E-05	6.47E-05
WSW	533	4.81E-05	7.27E-05	7.27E-05
W	524	4.03E-05	6.09E-05	6.09E-05
WNW	643	2.51E-05	3.79E-05	3.79E-05
NW	762	1.93E-05	2.92E-05	2.92E-05
NNW	890	2.01E-05	3.04E-05	3.04E-05

Table 4-15 (page 13 of 15)

Maximum Bi and Vi at or Beyond the Unrestricted Area Boundary for Xe-138

Direction	Distance (meters)	Total Body	Gamma	Air
		Annual	Annual	500 hour
		V_i	B_i	b_i
		<u>(mrem*sec)</u>	<u>(mrad*sec)</u>	<u>(mrad*sec)</u>
		(yr* μ Ci)	(yr* μ Ci)	(yr* μ Ci)
N	1036	2.47E-04	3.71E-04	3.71E-04
NNE	1378	2.24E-04	3.37E-04	3.37E-04
NE	2408	1.38E-04	2.07E-04	2.07E-04
ENE	4450	5.80E-05	8.72E-05	8.72E-05
E	1996	1.44E-04	2.17E-04	2.17E-04
ESE	1465	2.15E-04	3.22E-04	3.22E-04
SE	969	3.04E-04	4.56E-04	4.56E-04
SSE	838	2.58E-04	3.87E-04	3.87E-04
S	829	2.69E-04	4.03E-04	4.03E-04
SSW	835	2.57E-04	3.86E-04	3.86E-04
SW	628	3.92E-04	5.89E-04	5.89E-04
WSW	533	4.21E-04	6.32E-04	6.32E-04
W	524	3.59E-04	5.39E-04	5.39E-04
WNW	643	2.39E-04	3.58E-04	3.58E-04
NW	762	1.96E-04	2.94E-04	2.94E-04
NNW	890	2.09E-04	3.13E-04	3.13E-04

Table 4-15 (page 14 of 15)

Maximum Bi and Vi at or Beyond the Unrestricted Area Boundary for Xe-139

Direction	Distance (meters)	Total Body	Gamma Air	
		Annual	Annual	500 hour
		V_i	B_i	b_i
		$\frac{(\text{mrem} \cdot \text{sec})}{(\text{yr} \cdot \mu\text{Ci})}$	$\frac{(\text{mrad} \cdot \text{sec})}{(\text{yr} \cdot \mu\text{Ci})}$	$\frac{(\text{mrad} \cdot \text{sec})}{(\text{yr} \cdot \mu\text{Ci})}$
N	1036	1.23E-05	1.84E-05	1.84E-05
NNE	1378	8.83E-06	1.33E-05	1.33E-05
NE	2408	2.03E-06	3.04E-06	3.04E-06
ENE	4450	3.82E-07	5.73E-07	5.73E-07
E	1996	2.51E-06	3.77E-06	3.77E-06
ESE	1465	6.50E-06	9.77E-06	9.77E-06
SE	969	1.51E-05	2.27E-05	2.27E-05
SSE	838	1.30E-05	1.95E-05	1.95E-05
S	829	1.20E-05	1.80E-05	1.80E-05
SSW	835	1.00E-05	1.50E-05	1.50E-05
SW	628	2.90E-05	4.36E-05	4.36E-05
WSW	533	3.67E-05	5.51E-05	5.51E-05
W	524	3.07E-05	4.61E-05	4.61E-05
WNW	643	1.67E-05	2.51E-05	2.51E-05
NW	762	1.12E-05	1.69E-05	1.69E-05
NNW	890	1.06E-05	1.59E-05	1.59E-05

Table 4-15 (page 15 of 15)

Maximum Bi and Vi at or Beyond the Unrestricted Area Boundary for Ar-41

Direction	Distance (meters)	Total Body	Gamma Air	
		Annual	Annual	500 hour
		V_i	B_i	b_i
		<u>(mrem*sec)</u> (yr* μ Ci)	<u>(mrad*sec)</u> (yr* μ Ci)	<u>(mrad*sec)</u> (yr* μ Ci)
N	1036	3.05E-04	4.57E-04	4.57E-04
NNE	1378	2.75E-04	4.13E-04	4.13E-04
NE	2408	1.70E-04	2.55E-04	2.55E-04
ENE	4450	7.37E-05	1.11E-04	1.11E-04
E	1996	1.78E-04	2.67E-04	2.67E-04
ESE	1465	2.63E-04	3.95E-04	3.95E-04
SE	969	3.74E-04	5.61E-04	5.61E-04
SSE	838	3.19E-04	4.79E-04	4.79E-04
S	829	3.34E-04	5.01E-04	5.01E-04
SSW	835	3.20E-04	4.80E-04	4.80E-04
SW	628	4.85E-04	7.28E-04	7.28E-04
WSW	533	5.22E-04	7.83E-04	7.83E-04
W	524	4.44E-04	6.67E-04	6.67E-04
WNW	643	2.96E-04	4.44E-04	4.44E-04
NW	762	2.43E-04	3.64E-04	3.64E-04
NNW	890	2.58E-04	3.87E-04	3.87E-04

Table 4-16 (Page 1 of 4)

Infant Drinking Water A_{II} mrem*mL/hr* μ Ci

<u>Nuclide</u>	<u>Bone</u>	<u>Liver</u>	<u>T Body</u>	<u>Thyroid</u>	<u>Kidney</u>	<u>Lung</u>	<u>GI-LLI</u>	<u>Skin</u>
H-3	0.00E+00	6.63E+00	6.63E+00	6.63E+00	6.63E+00	6.63E+00	6.63E+00	0.00E+00
C-14	8.93E+02	1.91E+02	1.91E+02	1.91E+02	1.91E+02	1.91E+02	1.91E+02	0.00E+00
NA-22	3.70E+03	3.70E+03	3.70E+03	3.70E+03	3.70E+03	3.70E+03	3.70E+03	0.00E+00
NA-24	2.19E+02	2.19E+02	2.19E+02	2.19E+02	2.19E+02	2.19E+02	2.19E+02	0.00E+00
P-32	6.25E+04	3.68E+03	2.42E+03	0.00E+00	0.00E+00	0.00E+00	8.46E+02	0.00E+00
CA-41	1.41E+04	0.00E+00	1.54E+03	0.00E+00	0.00E+00	0.00E+00	7.20E+00	0.00E+00
SC-46	1.41E+00	2.03E+00	6.34E-01	0.00E+00	1.34E+00	0.00E+00	1.32E+03	0.00E+00
CR-51	0.00E+00	0.00E+00	5.25E-01	3.42E-01	7.48E-02	6.66E-01	1.53E+01	0.00E+00
MN-54	0.00E+00	7.49E+02	1.70E+02	0.00E+00	1.66E+02	0.00E+00	2.75E+02	0.00E+00
FE-55	5.23E+02	3.38E+02	9.04E+01	0.00E+00	0.00E+00	1.65E+02	4.29E+01	0.00E+00
MN-56	0.00E+00	1.22E+00	2.11E-01	0.00E+00	1.05E+00	0.00E+00	1.11E+02	0.00E+00
CO-57	0.00E+00	4.33E+01	7.04E+01	0.00E+00	0.00E+00	0.00E+00	1.47E+02	0.00E+00
CO-58	0.00E+00	1.35E+02	3.37E+02	0.00E+00	0.00E+00	0.00E+00	3.36E+02	0.00E+00
FE-59	1.15E+03	2.01E+03	7.92E+02	0.00E+00	0.00E+00	5.94E+02	9.61E+02	0.00E+00
CO-60	0.00E+00	4.07E+02	9.60E+02	0.00E+00	0.00E+00	0.00E+00	9.68E+02	0.00E+00
NI-59	1.78E+03	5.46E+02	3.08E+02	0.00E+00	0.00E+00	0.00E+00	2.70E+01	0.00E+00
NI-63	2.39E+04	1.48E+03	8.29E+02	0.00E+00	0.00E+00	0.00E+00	7.35E+01	0.00E+00
CU-64	0.00E+00	1.19E+01	5.52E+00	0.00E+00	2.02E+01	0.00E+00	2.45E+02	0.00E+00
NI-65	6.53E+00	7.39E-01	3.36E-01	0.00E+00	0.00E+00	0.00E+00	5.62E+01	0.00E+00
ZN-65	6.92E+02	2.37E+03	1.09E+03	0.00E+00	1.15E+03	0.00E+00	2.01E+03	0.00E+00
ZN-69m	3.09E+01	6.30E+01	5.74E+00	0.00E+00	2.55E+01	0.00E+00	8.73E+02	0.00E+00
ZN-69	4.44E-04	8.00E-04	5.95E-05	0.00E+00	3.32E-04	0.00E+00	6.52E-02	0.00E+00
SE-79	0.00E+00	7.91E+02	1.47E+02	0.00E+00	9.15E+02	0.00E+00	2.10E+01	0.00E+00
BR-82	0.00E+00	0.00E+00	3.78E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
BR-83	0.00E+00	0.00E+00	4.21E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
BR-84	0.00E+00	0.00E+00	2.20E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
BR-85	0.00E+00	0.00E+00	1.80E-76	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
RB-86	0.00E+00	6.29E+03	3.11E+03	0.00E+00	0.00E+00	0.00E+00	1.61E+02	0.00E+00
RB-87	0.00E+00	3.35E+03	1.33E+03	0.00E+00	0.00E+00	0.00E+00	2.25E+01	0.00E+00
RB-88	0.00E+00	1.25E-11	6.85E-12	0.00E+00	0.00E+00	0.00E+00	1.22E-11	0.00E+00
RB-89	0.00E+00	9.88E-14	6.80E-14	0.00E+00	0.00E+00	0.00E+00	3.36E-14	0.00E+00
SR-89	9.39E+04	0.00E+00	2.69E+03	0.00E+00	0.00E+00	0.00E+00	1.93E+03	0.00E+00
SR-90	1.07E+06	0.00E+00	2.16E+04	0.00E+00	0.00E+00	0.00E+00	8.70E+03	0.00E+00
Y-90	2.88E+00	0.00E+00	7.71E-02	0.00E+00	0.00E+00	0.00E+00	3.97E+03	0.00E+00
SR-91	7.85E+02	0.00E+00	2.84E+01	0.00E+00	0.00E+00	0.00E+00	9.29E+02	0.00E+00
Y-91m	1.33E-06	0.00E+00	4.54E-08	0.00E+00	0.00E+00	0.00E+00	4.44E-03	0.00E+00
Y-91	4.23E+01	0.00E+00	1.13E+00	0.00E+00	0.00E+00	0.00E+00	3.03E+03	0.00E+00

Table 4-16 (Page 2 of 4)

Infant Drinking Water A_{it} mrem*mL/hr* μ Ci

<u>Nuclide</u>	<u>Bone</u>	<u>Liver</u>	<u>T Body</u>	<u>Thyroid</u>	<u>Kidney</u>	<u>Lung</u>	<u>GI-LLI</u>	<u>Skin</u>
SR-92	3.36E+01	0.00E+00	1.25E+00	0.00E+00	0.00E+00	0.00E+00	3.62E+02	0.00E+00
Y-92	2.75E-02	0.00E+00	7.73E-04	0.00E+00	0.00E+00	0.00E+00	5.25E+02	0.00E+00
Y-93	4.02E-01	0.00E+00	1.09E-02	0.00E+00	0.00E+00	0.00E+00	3.17E+03	0.00E+00
NB-93m	4.63E+00	1.25E+00	3.92E-01	0.00E+00	1.22E+00	0.00E+00	1.50E+02	0.00E+00
NB-95	1.57E+00	6.45E-01	3.73E-01	0.00E+00	4.63E-01	0.00E+00	5.45E+02	0.00E+00
NB-97	1.70E-05	3.64E-06	1.31E-06	0.00E+00	2.84E-06	0.00E+00	1.15E+00	0.00E+00
ZR-93	7.27E+00	3.46E+00	2.09E+00	0.00E+00	1.02E+01	0.00E+00	9.00E+02	0.00E+00
ZR-95	7.72E+00	1.88E+00	1.33E+00	0.00E+00	2.03E+00	0.00E+00	9.37E+02	0.00E+00
ZR-97	3.41E-01	5.85E-02	2.67E-02	0.00E+00	5.90E-02	0.00E+00	3.73E+03	0.00E+00
MO-93	0.00E+00	2.13E+03	6.86E+01	0.00E+00	4.26E+02	0.00E+00	4.56E+01	0.00E+00
MO-99	0.00E+00	1.13E+03	2.20E+02	0.00E+00	1.69E+03	0.00E+00	3.72E+02	0.00E+00
TC-99	4.07E+01	5.50E+01	1.71E+01	0.00E+00	4.63E+02	5.35E+00	2.38E+02	0.00E+00
TC-99m	1.82E-02	3.75E-02	4.83E-01	0.00E+00	4.03E-01	1.96E-02	1.09E+01	0.00E+00
TC-101	4.66E-17	5.87E-17	5.81E-16	0.00E+00	6.98E-16	3.20E-17	9.98E-15	0.00E+00
RU-103	5.53E+01	0.00E+00	1.85E+01	0.00E+00	1.15E+02	0.00E+00	6.72E+02	0.00E+00
RU-105	7.87E-01	0.00E+00	2.65E-01	0.00E+00	5.79E+00	0.00E+00	3.13E+02	0.00E+00
RU-106	9.07E+02	0.00E+00	1.13E+02	0.00E+00	1.07E+03	0.00E+00	6.89E+03	0.00E+00
RH-105	3.25E+01	2.12E+01	1.43E+01	0.00E+00	5.90E+01	0.00E+00	5.27E+02	0.00E+00
PD-107	0.00E+00	4.48E+01	3.18E+00	0.00E+00	2.56E+02	0.00E+00	3.56E+01	0.00E+00
PD-109	0.00E+00	3.04E+01	7.35E+00	0.00E+00	1.12E+02	0.00E+00	7.47E+02	0.00E+00
AG-110m	3.75E+01	2.73E+01	1.81E+01	0.00E+00	3.91E+01	0.00E+00	1.42E+03	0.00E+00
AG-111	1.87E+01	7.26E+00	3.85E+00	0.00E+00	1.52E+01	0.00E+00	1.73E+03	0.00E+00
CD-113m	0.00E+00	6.67E+02	2.46E+01	0.00E+00	5.05E+02	0.00E+00	1.00E+03	0.00E+00
CD-115m	0.00E+00	5.31E+02	1.84E+01	0.00E+00	2.77E+02	0.00E+00	3.02E+03	0.00E+00
SN-123	9.36E+03	1.46E+02	2.44E+02	1.47E+02	0.00E+00	0.00E+00	2.47E+03	0.00E+00
SN-125	2.69E+03	5.02E+01	1.20E+02	4.94E+01	0.00E+00	0.00E+00	4.03E+03	0.00E+00
SN-126	2.08E+04	2.73E+02	6.78E+02	7.20E+01	0.00E+00	0.00E+00	9.49E+02	0.00E+00
SB-124	8.02E+02	1.18E+01	2.48E+02	2.13E+00	0.00E+00	5.02E+02	2.47E+03	0.00E+00
SB-125	4.63E+02	4.48E+00	9.53E+01	5.80E-01	0.00E+00	2.68E+02	6.18E+02	0.00E+00
SB-126	2.95E+02	5.79E+00	1.07E+02	2.27E+00	0.00E+00	1.86E+02	3.06E+03	0.00E+00
SB-127	7.68E+01	1.37E+00	2.38E+01	9.78E-01	0.00E+00	3.96E+01	2.03E+03	0.00E+00
TE-125m	8.73E+02	2.92E+02	1.18E+02	2.94E+02	0.00E+00	0.00E+00	4.16E+02	0.00E+00
TE-127m	2.20E+03	7.29E+02	2.66E+02	6.35E+02	5.41E+03	0.00E+00	8.86E+02	0.00E+00
TE-127	1.55E+01	5.18E+00	3.33E+00	1.26E+01	3.78E+01	0.00E+00	3.25E+02	0.00E+00
TE-129m	3.73E+03	1.28E+03	5.74E+02	1.43E+03	9.32E+03	0.00E+00	2.23E+03	0.00E+00
TE-129	8.23E-03	2.84E-03	1.92E-03	6.89E-03	2.05E-02	0.00E+00	6.58E-01	0.00E+00
TE-133m	1.80E-03	8.25E-04	7.88E-04	1.59E-03	5.62E-03	0.00E+00	8.90E-02	0.00E+00

Table 4-16 (Page 3 of 4)

Infant Drinking Water A_{II} mrem*mL/hr* μ Ci

<u>Nuclide</u>	<u>Bone</u>	<u>Liver</u>	<u>T Body</u>	<u>Thyroid</u>	<u>Kidney</u>	<u>Lung</u>	<u>GI-LLI</u>	<u>Skin</u>
TE-134	6.57E-05	3.30E-05	3.39E-05	5.88E-05	2.22E-04	0.00E+00	7.53E-04	0.00E+00
I-129	1.08E+03	7.99E+02	5.84E+02	5.12E+05	9.46E+02	0.00E+00	1.60E+01	0.00E+00
I-130	1.15E+02	2.54E+02	1.02E+02	2.84E+04	2.79E+02	0.00E+00	5.44E+01	0.00E+00
I-131	1.30E+03	1.53E+03	6.71E+02	5.02E+05	1.78E+03	0.00E+00	5.45E+01	0.00E+00
TE-131m	4.34E+02	1.75E+02	1.44E+02	3.54E+02	1.20E+03	0.00E+00	2.94E+03	0.00E+00
TE-131	1.42E-08	5.24E-09	3.98E-09	1.27E-08	3.63E-08	0.00E+00	5.73E-07	0.00E+00
I-132	1.68E+00	3.41E+00	1.22E+00	1.60E+02	3.81E+00	0.00E+00	2.76E+00	0.00E+00
TE-132	7.04E+02	3.49E+02	3.25E+02	5.15E+02	2.18E+03	0.00E+00	1.29E+03	0.00E+00
I-133	3.16E+02	4.60E+02	1.35E+02	8.36E+04	5.40E+02	0.00E+00	7.78E+01	0.00E+00
CS-134m	3.77E-01	6.27E-01	3.17E-01	0.00E+00	2.42E-01	5.56E-02	4.96E-01	0.00E+00
CS-134	1.42E+04	2.65E+04	2.67E+03	0.00E+00	6.82E+03	2.79E+03	7.19E+01	0.00E+00
I-134	2.48E-03	5.08E-03	1.81E-03	1.18E-01	5.68E-03	0.00E+00	5.25E-03	0.00E+00
I-135	3.90E+01	7.75E+01	2.83E+01	6.95E+03	8.64E+01	0.00E+00	2.80E+01	0.00E+00
CS-135	5.01E+03	4.56E+03	2.37E+02	0.00E+00	1.30E+03	4.93E+02	1.65E+01	0.00E+00
CS-136	1.68E+03	4.95E+03	1.85E+03	0.00E+00	1.97E+03	4.04E+02	7.52E+01	0.00E+00
CS-137	1.97E+04	2.30E+04	1.63E+03	0.00E+00	6.18E+03	2.50E+03	7.19E+01	0.00E+00
CS-138	3.37E-06	5.47E-06	2.65E-06	0.00E+00	2.73E-06	4.26E-07	8.75E-06	0.00E+00
CS-139	1.02E-22	1.40E-22	5.34E-23	0.00E+00	7.22E-23	1.09E-23	8.78E-24	0.00E+00
BA-139	8.18E-02	5.42E-05	2.37E-03	0.00E+00	3.26E-05	3.29E-05	5.18E+00	0.00E+00
BA-140	6.27E+03	6.27E+00	3.23E+02	0.00E+00	1.49E+00	3.85E+00	1.54E+03	0.00E+00
LA-140	6.46E-01	2.55E-01	6.56E-02	0.00E+00	0.00E+00	0.00E+00	2.99E+03	0.00E+00
BA-141	2.19E-11	1.50E-14	6.92E-13	0.00E+00	9.03E-15	9.14E-15	2.68E-10	0.00E+00
LA-141	1.32E-02	3.82E-03	6.66E-04	0.00E+00	0.00E+00	0.00E+00	4.38E+02	0.00E+00
CE-141	2.93E+00	1.79E+00	2.11E-01	0.00E+00	5.52E-01	0.00E+00	9.24E+02	0.00E+00
BA-142	3.84E-20	3.20E-23	1.89E-21	0.00E+00	1.84E-23	1.93E-23	1.58E-19	0.00E+00
LA-142	2.22E-04	8.14E-05	1.95E-05	0.00E+00	0.00E+00	0.00E+00	1.38E+01	0.00E+00
CE-143	4.33E-01	2.88E+02	3.28E-02	0.00E+00	8.37E-02	0.00E+00	1.68E+03	0.00E+00
PR-143	2.99E+00	1.12E+00	1.48E-01	0.00E+00	4.15E-01	0.00E+00	1.58E+03	0.00E+00
CE-144	1.12E+02	4.59E+01	6.28E+00	0.00E+00	1.85E+01	0.00E+00	6.43E+03	0.00E+00
PR-144	2.96E-15	1.14E-15	1.49E-16	0.00E+00	4.14E-16	0.00E+00	5.32E-11	0.00E+00
ND-147	2.02E+00	2.07E+00	1.27E-01	0.00E+00	7.99E-01	0.00E+00	1.31E+03	0.00E+00
PM-147	1.46E+01	1.23E+00	5.99E-01	0.00E+00	1.84E+00	0.00E+00	3.49E+02	0.00E+00
PM-148m	6.16E+00	1.56E+00	1.23E+00	0.00E+00	1.79E+00	0.00E+00	2.03E+03	0.00E+00
PM-148	2.23E+00	3.22E-01	1.62E-01	0.00E+00	3.85E-01	0.00E+00	3.44E+03	0.00E+00
PM-149	4.44E-01	5.83E-02	2.54E-02	0.00E+00	7.09E-02	0.00E+00	1.57E+03	0.00E+00
PM-151	1.74E-01	2.53E-02	1.28E-02	0.00E+00	3.01E-02	0.00E+00	1.17E+03	0.00E+00
SM-151	1.09E+01	2.51E+00	5.42E-01	0.00E+00	1.71E+00	0.00E+00	2.10E+02	0.00E+00

Table 4-16 (Page 4 of 4)

Infant Drinking Water A_H mrem*mL/hr* μ Ci

<u>Nuclide</u>	<u>Bone</u>	<u>Liver</u>	<u>T Body</u>	<u>Thyroid</u>	<u>Kidney</u>	<u>Lung</u>	<u>GI-LLI</u>	<u>Skin</u>
SM-153	2.43E-01	1.88E-01	1.44E-02	0.00E+00	3.94E-02	0.00E+00	9.84E+02	0.00E+00
EU-152	2.54E+01	6.74E+00	5.69E+00	0.00E+00	1.89E+01	0.00E+00	5.99E+02	0.00E+00
EU-154	9.94E+01	1.38E+01	8.29E+00	0.00E+00	3.75E+01	0.00E+00	1.73E+03	0.00E+00
EU-155	2.04E+01	2.35E+00	1.22E+00	0.00E+00	5.27E+00	0.00E+00	3.15E+03	0.00E+00
EU-156	4.20E+00	2.60E+00	4.12E-01	0.00E+00	1.20E+00	0.00E+00	2.46E+03	0.00E+00
TB-160	9.71E+00	0.00E+00	1.21E+00	0.00E+00	2.76E+00	0.00E+00	1.29E+03	0.00E+00
HO-166m	4.71E+01	1.01E+01	8.02E+00	0.00E+00	1.34E+01	0.00E+00	3.77E-17	0.00E+00
W-181	3.32E+00	1.02E+00	1.14E-01	0.00E+00	0.00E+00	0.00E+00	1.43E+01	0.00E+00
W-185	1.36E+02	4.24E+01	4.84E+00	0.00E+00	0.00E+00	0.00E+00	6.07E+02	0.00E+00
W-187	2.40E+01	1.67E+01	5.77E+00	0.00E+00	0.00E+00	0.00E+00	9.81E+02	0.00E+00
NP-239	3.61E-01	3.23E-02	1.82E-02	0.00E+00	6.44E-02	0.00E+00	9.33E+02	0.00E+00
U-232	9.12E+05	0.00E+00	8.14E+04	0.00E+00	8.93E+04	0.00E+00	2.65E+03	0.00E+00
U-233	1.91E+05	0.00E+00	1.46E+04	0.00E+00	4.07E+04	0.00E+00	2.45E+03	0.00E+00
U-234	1.84E+05	0.00E+00	1.43E+04	0.00E+00	3.99E+04	0.00E+00	2.40E+03	0.00E+00
U-235	1.76E+05	0.00E+00	1.34E+04	0.00E+00	3.74E+04	0.00E+00	3.05E+03	0.00E+00
U-236	1.76E+05	0.00E+00	1.37E+04	0.00E+00	3.80E+04	0.00E+00	2.25E+03	0.00E+00
U-237	1.77E+01	0.00E+00	4.72E+00	0.00E+00	4.40E+01	0.00E+00	7.55E+02	0.00E+00
U-238	1.68E+05	0.00E+00	1.25E+04	0.00E+00	3.50E+04	0.00E+00	2.15E+03	0.00E+00
NP-237	9.04E+04	5.99E+03	3.96E+03	0.00E+00	2.39E+04	0.00E+00	3.10E+03	0.00E+00
NP-238	3.97E+00	9.98E-02	6.14E-02	0.00E+00	2.18E-01	0.00E+00	1.33E+03	0.00E+00
PU-238	4.82E+04	5.65E+03	1.28E+03	0.00E+00	4.56E+03	0.00E+00	2.85E+03	0.00E+00
PU-239	5.20E+04	5.84E+03	1.33E+03	0.00E+00	4.82E+03	0.00E+00	2.60E+03	0.00E+00
PU-240	5.20E+04	5.84E+03	1.33E+03	0.00E+00	4.82E+03	0.00E+00	2.65E+03	0.00E+00
PU-241	1.60E+03	6.63E+01	3.32E+01	0.00E+00	1.19E+02	0.00E+00	5.46E+01	0.00E+00
PU-242	4.82E+04	5.61E+03	1.28E+03	0.00E+00	4.63E+03	0.00E+00	2.55E+03	0.00E+00
PU-244	5.61E+04	6.44E+03	1.47E+03	0.00E+00	5.31E+03	0.00E+00	3.80E+03	0.00E+00
AM-241	5.50E+04	4.78E+04	4.11E+03	0.00E+00	2.47E+04	0.00E+00	2.90E+03	0.00E+00
AM-242m	5.69E+04	4.60E+04	4.26E+03	0.00E+00	2.50E+04	0.00E+00	3.65E+03	0.00E+00
AM-243	5.42E+04	4.63E+04	3.99E+03	0.00E+00	2.40E+04	0.00E+00	3.40E+03	0.00E+00
CM-242	5.15E+03	4.77E+03	3.42E+02	0.00E+00	9.85E+02	0.00E+00	3.09E+03	0.00E+00
CM-243	5.27E+04	4.33E+04	3.38E+03	0.00E+00	1.23E+04	0.00E+00	3.05E+03	0.00E+00
CM-244	4.44E+04	3.65E+04	2.86E+03	0.00E+00	1.02E+04	0.00E+00	2.95E+03	0.00E+00
CM-245	6.74E+04	5.46E+04	4.26E+03	0.00E+00	1.63E+04	0.00E+00	2.75E+03	0.00E+00
CM-246	6.67E+04	5.46E+04	4.26E+03	0.00E+00	1.62E+04	0.00E+00	2.70E+03	0.00E+00
CM-247	6.52E+04	5.39E+04	4.18E+03	0.00E+00	1.60E+04	0.00E+00	3.55E+03	0.00E+00
CM-248	5.39E+05	4.45E+05	3.45E+04	0.00E+00	1.32E+05	0.00E+00	5.73E+04	0.00E+00
CF-252	4.59E+04	0.00E+00	1.11E+03	0.00E+00	0.00E+00	0.00E+00	1.13E+04	0.00E+00

Table 4-17 (Page 1 of 4)

Child Drinking Water A_{H} mrem*mL/hr* μ Ci

<u>Nuclide</u>	<u>Bone</u>	<u>Liver</u>	<u>T Body</u>	<u>Thyroid</u>	<u>Kidney</u>	<u>Lung</u>	<u>GI-LLI</u>	<u>Skin</u>
H-3	0.00E+00	6.75E+00	6.75E+00	6.75E+00	6.75E+00	6.75E+00	6.75E+00	0.00E+00
C-14	7.04E+02	1.41E+02	1.41E+02	1.41E+02	1.41E+02	1.41E+02	1.41E+02	0.00E+00
NA-22	3.42E+03	3.42E+03	3.42E+03	3.42E+03	3.42E+03	3.42E+03	3.42E+03	0.00E+00
NA-24	1.94E+02	1.94E+02	1.94E+02	1.94E+02	1.94E+02	1.94E+02	1.94E+02	0.00E+00
P-32	4.69E+04	2.19E+03	1.81E+03	0.00E+00	0.00E+00	0.00E+00	1.30E+03	0.00E+00
CA-41	2.02E+04	0.00E+00	2.21E+03	0.00E+00	0.00E+00	0.00E+00	1.11E+01	0.00E+00
SC-46	1.14E+00	1.57E+00	6.03E-01	0.00E+00	1.39E+00	0.00E+00	2.29E+03	0.00E+00
CR-51	0.00E+00	0.00E+00	5.12E-01	2.84E-01	7.76E-02	5.19E-01	2.71E+01	0.00E+00
MN-54	0.00E+00	6.22E+02	1.66E+02	0.00E+00	1.74E+02	0.00E+00	5.22E+02	0.00E+00
FE-55	6.69E+02	3.55E+02	1.10E+02	0.00E+00	0.00E+00	2.01E+02	6.58E+01	0.00E+00
MN-56	0.00E+00	7.72E-01	1.74E-01	0.00E+00	9.34E-01	0.00E+00	1.12E+02	0.00E+00
CO-57	0.00E+00	2.87E+01	5.80E+01	0.00E+00	0.00E+00	0.00E+00	2.35E+02	0.00E+00
CO-58	0.00E+00	1.04E+02	3.19E+02	0.00E+00	0.00E+00	0.00E+00	6.08E+02	0.00E+00
FE-59	9.53E+02	1.54E+03	7.68E+02	0.00E+00	0.00E+00	4.47E+02	1.61E+03	0.00E+00
CO-60	0.00E+00	3.08E+02	9.08E+02	0.00E+00	0.00E+00	0.00E+00	1.71E+03	0.00E+00
NI-59	2.34E+03	6.23E+02	3.97E+02	0.00E+00	0.00E+00	0.00E+00	4.13E+01	0.00E+00
NI-63	3.13E+04	1.68E+03	1.07E+03	0.00E+00	0.00E+00	0.00E+00	1.13E+02	0.00E+00
CU-64	0.00E+00	7.41E+00	4.48E+00	0.00E+00	1.79E+01	0.00E+00	3.48E+02	0.00E+00
NI-65	4.76E+00	4.48E-01	2.62E-01	0.00E+00	0.00E+00	0.00E+00	5.49E+01	0.00E+00
ZN-65	7.96E+02	2.12E+03	1.32E+03	0.00E+00	1.34E+03	0.00E+00	3.73E+02	0.00E+00
ZN-69m	2.26E+01	3.85E+01	4.55E+00	0.00E+00	2.24E+01	0.00E+00	1.25E+03	0.00E+00
ZN-69	3.22E-04	4.66E-04	4.31E-05	0.00E+00	2.83E-04	0.00E+00	2.94E-02	0.00E+00
SE-79	0.00E+00	4.91E+02	1.09E+02	0.00E+00	7.98E+02	0.00E+00	3.22E+01	0.00E+00
BR-82	0.00E+00	0.00E+00	3.47E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
BR-83	0.00E+00	0.00E+00	3.07E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
BR-84	0.00E+00	0.00E+00	1.76E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
BR-85	0.00E+00	0.00E+00	1.31E-76	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
RB-86	0.00E+00	3.83E+03	2.35E+03	0.00E+00	0.00E+00	0.00E+00	2.46E+02	0.00E+00
RB-87	0.00E+00	2.30E+03	1.07E+03	0.00E+00	0.00E+00	0.00E+00	3.45E+01	0.00E+00
RB-88	0.00E+00	7.37E-12	5.12E-12	0.00E+00	0.00E+00	0.00E+00	3.61E-13	0.00E+00
RB-89	0.00E+00	6.25E-14	5.55E-14	0.00E+00	0.00E+00	0.00E+00	5.45E-16	0.00E+00
SR-89	7.63E+04	0.00E+00	2.18E+03	0.00E+00	0.00E+00	0.00E+00	2.95E+03	0.00E+00
SR-90	1.49E+06	0.00E+00	3.00E+04	0.00E+00	0.00E+00	0.00E+00	1.33E+04	0.00E+00
Y-90	2.10E+00	0.00E+00	5.62E-02	0.00E+00	0.00E+00	0.00E+00	5.98E+03	0.00E+00
SR-91	5.82E+02	0.00E+00	2.20E+01	0.00E+00	0.00E+00	0.00E+00	1.29E+03	0.00E+00
Y-91m	9.71E-07	0.00E+00	3.53E-08	0.00E+00	0.00E+00	0.00E+00	1.90E-03	0.00E+00
Y-91	3.48E+01	0.00E+00	9.32E-01	0.00E+00	0.00E+00	0.00E+00	4.64E+03	0.00E+00

Table 4-17 (Page 2 of 4)

Child Drinking Water A_k mrem*mL/hr* μ Ci

<u>Nuclide</u>	<u>Bone</u>	<u>Liver</u>	<u>T Body</u>	<u>Thyroid</u>	<u>Kidney</u>	<u>Lung</u>	<u>GI-LLI</u>	<u>Skin</u>
SR-92	2.44E+01	0.00E+00	9.79E-01	0.00E+00	0.00E+00	0.00E+00	4.62E+02	0.00E+00
Y-92	2.00E-02	0.00E+00	5.72E-04	0.00E+00	0.00E+00	0.00E+00	5.78E+02	0.00E+00
Y-93	2.91E-01	0.00E+00	8.00E-03	0.00E+00	0.00E+00	0.00E+00	4.34E+03	0.00E+00
NB-93m	6.11E+00	1.53E+00	5.01E-01	0.00E+00	1.65E+00	0.00E+00	2.30E+02	0.00E+00
NB-95	1.30E+00	5.05E-01	3.61E-01	0.00E+00	4.74E-01	0.00E+00	9.34E+02	0.00E+00
NB-97	1.25E-05	2.25E-06	1.05E-06	0.00E+00	2.50E-06	0.00E+00	6.95E-01	0.00E+00
ZR-93	9.72E+00	3.64E+00	2.59E+00	0.00E+00	1.41E+01	0.00E+00	1.38E+03	0.00E+00
ZR-95	6.72E+00	1.48E+00	1.31E+00	0.00E+00	2.11E+00	0.00E+00	1.54E+03	0.00E+00
ZR-97	2.49E-01	3.59E-02	2.12E-02	0.00E+00	5.16E-02	0.00E+00	5.45E+03	0.00E+00
MO-93	0.00E+00	1.40E+03	5.04E+01	0.00E+00	3.70E+02	0.00E+00	7.10E+01	0.00E+00
MO-99	0.00E+00	6.83E+02	1.69E+02	0.00E+00	1.46E+03	0.00E+00	5.65E+02	0.00E+00
TC-99	3.11E+01	3.47E+01	1.25E+01	0.00E+00	4.09E+02	3.07E+00	3.64E+02	0.00E+00
TC-99m	1.35E-02	2.65E-02	4.39E-01	0.00E+00	3.85E-01	1.34E-02	1.51E+01	0.00E+00
TC-101	3.40E-17	3.55E-17	4.51E-16	0.00E+00	6.06E-16	1.88E-17	1.13E-16	0.00E+00
RU-103	4.22E+01	0.00E+00	1.62E+01	0.00E+00	1.06E+02	0.00E+00	1.09E+03	0.00E+00
RU-105	5.77E-01	0.00E+00	2.09E-01	0.00E+00	5.07E+00	0.00E+00	3.76E+02	0.00E+00
RU-106	6.81E+02	0.00E+00	8.49E+01	0.00E+00	9.19E+02	0.00E+00	1.06E+04	0.00E+00
RH-105	2.37E+01	1.27E+01	1.09E+01	0.00E+00	5.06E+01	0.00E+00	7.87E+02	0.00E+00
PD-107	0.00E+00	2.75E+01	2.33E+00	0.00E+00	2.30E+02	0.00E+00	5.46E+01	0.00E+00
PD-109	0.00E+00	1.78E+01	5.33E+00	0.00E+00	9.54E+01	0.00E+00	1.05E+03	0.00E+00
AG-110m	3.13E+01	2.12E+01	1.69E+01	0.00E+00	3.94E+01	0.00E+00	2.52E+03	0.00E+00
AG-111	1.38E+01	4.31E+00	2.85E+00	0.00E+00	1.30E+01	0.00E+00	2.64E+03	0.00E+00
CD-113m	0.00E+00	5.94E+02	2.53E+01	0.00E+00	6.11E+02	0.00E+00	1.53E+03	0.00E+00
CD-115m	0.00E+00	3.40E+02	1.45E+01	0.00E+00	2.53E+02	0.00E+00	4.63E+03	0.00E+00
SN-123	7.72E+03	9.58E+01	1.88E+02	1.02E+02	0.00E+00	0.00E+00	3.79E+03	0.00E+00
SN-125	1.99E+03	3.00E+01	8.93E+01	3.12E+01	0.00E+00	0.00E+00	6.18E+03	0.00E+00
SN-126	1.94E+04	2.42E+02	5.51E+02	6.64E+01	0.00E+00	0.00E+00	1.46E+03	0.00E+00
SB-124	6.43E+02	8.34E+00	2.25E+02	1.42E+00	0.00E+00	3.57E+02	4.02E+03	0.00E+00
SB-125	4.17E+02	3.21E+00	8.73E+01	3.86E-01	0.00E+00	2.32E+02	9.95E+02	0.00E+00
SB-126	2.49E+02	3.81E+00	8.95E+01	1.46E+00	0.00E+00	1.19E+02	5.02E+03	0.00E+00
SB-127	5.64E+01	8.73E-01	1.96E+01	6.28E-01	0.00E+00	2.45E+01	3.18E+03	0.00E+00
TE-125m	6.60E+02	1.79E+02	8.80E+01	1.85E+02	0.00E+00	0.00E+00	6.37E+02	0.00E+00
TE-127m	1.68E+03	4.52E+02	1.99E+02	4.01E+02	4.78E+03	0.00E+00	1.36E+03	0.00E+00
TE-127	1.13E+01	3.04E+00	2.42E+00	7.80E+00	3.20E+01	0.00E+00	4.40E+02	0.00E+00
TE-129m	2.81E+03	7.84E+02	4.36E+02	9.05E+02	8.24E+03	0.00E+00	3.42E+03	0.00E+00
TE-129	6.00E-03	1.67E-03	1.42E-03	4.28E-03	1.75E-02	0.00E+00	3.73E-01	0.00E+00
TE-133m	1.33E-03	5.39E-04	6.68E-04	1.03E-03	5.12E-03	0.00E+00	4.11E-02	0.00E+00

Table 4-17 (Page 3 of 4)

Child Drinking Water A_{it} mrem*mL/hr* μ Ci

<u>Nuclide</u>	<u>Bone</u>	<u>Liver</u>	<u>T Body</u>	<u>Thyroid</u>	<u>Kidney</u>	<u>Lung</u>	<u>GI-LLI</u>	<u>Skin</u>
TE-134	4.90E-05	2.20E-05	2.94E-05	3.88E-05	2.04E-04	0.00E+00	2.24E-04	0.00E+00
I-129	8.09E+02	4.97E+02	4.44E+02	3.25E+05	8.38E+02	0.00E+00	2.50E+01	0.00E+00
I-130	8.67E+01	1.75E+02	9.03E+01	1.93E+04	2.62E+02	0.00E+00	8.20E+01	0.00E+00
I-131	9.59E+02	9.65E+02	5.48E+02	3.19E+05	1.58E+03	0.00E+00	8.59E+01	0.00E+00
TE-131m	3.18E+02	1.10E+02	1.17E+02	2.26E+02	1.06E+03	0.00E+00	4.46E+03	0.00E+00
TE-131	1.03E-08	3.15E-09	3.08E-09	7.91E-09	3.13E-08	0.00E+00	5.43E-08	0.00E+00
I-132	1.25E+00	2.30E+00	1.06E+00	1.07E+02	3.52E+00	0.00E+00	2.71E+00	0.00E+00
TE-132	5.29E+02	2.34E+02	2.83E+02	3.41E+02	2.17E+03	0.00E+00	2.36E+03	0.00E+00
I-133	2.31E+02	2.86E+02	1.08E+02	5.31E+04	4.76E+02	0.00E+00	1.15E+02	0.00E+00
CS-134m	2.79E-01	4.13E-01	2.70E-01	0.00E+00	2.18E-01	3.60E-02	5.22E-01	0.00E+00
CS-134	1.36E+04	2.23E+04	4.71E+03	0.00E+00	6.92E+03	2.48E+03	1.20E+02	0.00E+00
I-134	1.85E-03	3.43E-03	1.58E-03	7.90E-02	5.25E-03	0.00E+00	2.28E-03	0.00E+00
I-135	2.89E+01	5.21E+01	2.46E+01	4.61E+03	7.99E+01	0.00E+00	3.97E+01	0.00E+00
CS-135	4.83E+03	3.37E+03	3.45E+02	0.00E+00	1.19E+03	3.96E+02	2.52E+01	0.00E+00
CS-136	1.33E+03	3.66E+03	2.37E+03	0.00E+00	1.95E+03	2.91E+02	1.29E+02	0.00E+00
CS-137	1.90E+04	1.82E+04	2.69E+03	0.00E+00	5.94E+03	2.14E+03	1.14E+02	0.00E+00
CS-138	2.47E-06	3.43E-06	2.17E-06	0.00E+00	2.41E-06	2.60E-07	1.58E-06	0.00E+00
CS-139	7.39E-23	8.21E-23	3.95E-23	0.00E+00	6.17E-23	6.22E-24	7.39E-27	0.00E+00
BA-139	5.94E-02	3.17E-05	1.72E-03	0.00E+00	2.77E-05	1.87E-05	3.43E+00	0.00E+00
BA-140	4.71E+03	4.13E+00	2.75E+02	0.00E+00	1.34E+00	2.46E+00	2.39E+03	0.00E+00
LA-140	4.78E-01	1.67E-01	5.63E-02	0.00E+00	0.00E+00	0.00E+00	4.66E+03	0.00E+00
BA-141	1.60E-11	8.93E-15	5.19E-13	0.00E+00	7.73E-15	5.25E-14	9.09E-12	0.00E+00
LA-141	9.59E-03	2.24E-03	4.85E-04	0.00E+00	0.00E+00	0.00E+00	4.97E+02	0.00E+00
CE-141	2.29E+00	1.14E+00	1.69E-01	0.00E+00	5.00E-01	0.00E+00	1.42E+03	0.00E+00
BA-142	2.82E-20	2.03E-23	1.57E-21	0.00E+00	1.64E-23	1.19E-23	3.68E-22	0.00E+00
LA-142	1.63E-04	5.20E-05	1.63E-05	0.00E+00	0.00E+00	0.00E+00	1.03E+01	0.00E+00
CE-143	3.16E-01	1.71E+02	2.48E-02	0.00E+00	7.19E-02	0.00E+00	2.51E+03	0.00E+00
PR-143	2.23E+00	6.70E-01	1.11E-01	0.00E+00	3.63E-01	0.00E+00	2.41E+03	0.00E+00
CE-144	1.21E+02	3.79E+01	6.45E+00	0.00E+00	2.10E+01	0.00E+00	9.89E+03	0.00E+00
PR-144	2.15E-15	6.65E-16	1.08E-16	0.00E+00	3.52E-16	0.00E+00	1.43E-12	0.00E+00
ND-147	1.57E+00	1.27E+00	9.87E-02	0.00E+00	6.99E-01	0.00E+00	2.02E+03	0.00E+00
PM-147	1.85E+01	1.32E+00	7.10E-01	0.00E+00	2.33E+00	0.00E+00	5.35E+02	0.00E+00
PM-148m	5.95E+00	1.18E+00	1.18E+00	0.00E+00	1.76E+00	0.00E+00	3.34E+03	0.00E+00
PM-148	1.65E+00	1.98E-01	1.28E-01	0.00E+00	3.37E-01	0.00E+00	5.29E+03	0.00E+00
PM-149	3.23E-01	3.43E-02	1.86E-02	0.00E+00	6.07E-02	0.00E+00	2.34E+03	0.00E+00
PM-151	1.27E-01	1.54E-02	1.00E-02	0.00E+00	2.61E-02	0.00E+00	1.75E+03	0.00E+00
SM-151	1.49E+01	2.22E+00	6.99E-01	0.00E+00	2.29E+00	0.00E+00	3.22E+02	0.00E+00

Table 4-17 (Page 4 of 4)

Child Drinking Water A_{ii} mrem*mL/hr* μ Ci

<u>Nuclide</u>	<u>Bone</u>	<u>Liver</u>	<u>T Body</u>	<u>Thyroid</u>	<u>Kidney</u>	<u>Lung</u>	<u>GI-LLI</u>	<u>Skin</u>
SM-153	1.78E-01	1.11E-01	1.07E-02	0.00E+00	3.37E-02	0.00E+00	1.47E+03	0.00E+00
EU-152	3.58E+01	6.52E+00	7.74E+00	0.00E+00	2.75E+01	0.00E+00	1.07E+03	0.00E+00
EU-154	1.34E+02	1.21E+01	1.10E+01	0.00E+00	5.29E+01	0.00E+00	2.80E+03	0.00E+00
EU-155	2.81E+01	2.02E+00	1.58E+00	0.00E+00	7.57E+00	0.00E+00	5.06E+03	0.00E+00
EU-156	3.20E+00	1.71E+00	3.55E-01	0.00E+00	1.10E+00	0.00E+00	3.89E+03	0.00E+00
TB-160	9.62E+00	0.00E+00	1.19E+00	0.00E+00	2.86E+00	0.00E+00	2.13E+03	0.00E+00
HO-166m	6.29E+01	1.32E+01	1.11E+01	0.00E+00	1.87E+01	0.00E+00	5.82E-17	0.00E+00
W-181	2.46E+00	6.04E-01	8.30E-02	0.00E+00	0.00E+00	0.00E+00	2.20E+01	0.00E+00
W-185	1.00E+02	2.50E+01	3.51E+00	0.00E+00	0.00E+00	0.00E+00	9.33E+02	0.00E+00
W-187	1.76E+01	1.04E+01	4.68E+00	0.00E+00	0.00E+00	0.00E+00	1.47E+03	0.00E+00
NP-239	2.64E-01	1.89E-02	1.33E-02	0.00E+00	5.48E-02	0.00E+00	1.40E+03	0.00E+00
U-232	1.02E+06	0.00E+00	7.34E+04	0.00E+00	7.80E+04	0.00E+00	4.06E+03	0.00E+00
U-233	2.17E+05	0.00E+00	1.31E+04	0.00E+00	3.55E+04	0.00E+00	3.76E+03	0.00E+00
U-234	2.08E+05	0.00E+00	1.29E+04	0.00E+00	3.48E+04	0.00E+00	3.68E+03	0.00E+00
U-235	1.99E+05	0.00E+00	1.21E+04	0.00E+00	3.27E+04	0.00E+00	4.68E+03	0.00E+00
U-236	1.99E+05	0.00E+00	1.23E+04	0.00E+00	3.34E+04	0.00E+00	3.45E+03	0.00E+00
U-237	1.31E+01	0.00E+00	3.47E+00	0.00E+00	3.77E+01	0.00E+00	1.15E+03	0.00E+00
U-238	1.90E+05	0.00E+00	1.13E+04	0.00E+00	3.05E+04	0.00E+00	3.30E+03	0.00E+00
NP-237	1.30E+05	8.56E+03	5.70E+03	0.00E+00	3.52E+04	0.00E+00	4.75E+03	0.00E+00
NP-238	2.88E+00	5.83E-02	4.49E-02	0.00E+00	1.86E-01	0.00E+00	2.00E+03	0.00E+00
PU-238	6.93E+04	8.03E+03	1.84E+03	0.00E+00	6.70E+03	0.00E+00	4.37E+03	0.00E+00
PU-239	7.51E+04	8.03E+03	1.93E+03	0.00E+00	7.10E+03	0.00E+00	3.99E+03	0.00E+00
PU-240	7.45E+04	8.33E+03	1.93E+03	0.00E+00	7.10E+03	0.00E+00	4.06E+03	0.00E+00
PU-241	2.25E+03	9.20E+01	4.68E+01	0.00E+00	1.72E+02	0.00E+00	8.38E+01	0.00E+00
PU-242	6.93E+04	8.03E+03	1.86E+03	0.00E+00	6.81E+03	0.00E+00	3.91E+03	0.00E+00
PU-244	8.09E+04	9.20E+04	2.13E+03	0.00E+00	7.86E+03	0.00E+00	5.82E+03	0.00E+00
AM-241	7.92E+04	6.81E+04	5.94E+03	0.00E+00	3.63E+04	0.00E+00	4.45E+03	0.00E+00
AM-242m	8.15E+04	6.52E+04	6.05E+03	0.00E+00	3.67E+04	0.00E+00	5.59E+03	0.00E+00
AM-243	7.80E+04	6.58E+04	5.72E+03	0.00E+00	3.53E+04	0.00E+00	5.21E+03	0.00E+00
CM-242	5.10E+03	4.07E+03	3.39E+02	0.00E+00	1.09E+03	0.00E+00	4.74E+03	0.00E+00
CM-243	7.45E+04	6.05E+04	4.80E+03	0.00E+00	1.79E+04	0.00E+00	4.67E+03	0.00E+00
CM-244	6.29E+04	5.09E+04	4.03E+03	0.00E+00	1.48E+04	0.00E+00	4.52E+03	0.00E+00
CM-245	9.72E+04	7.80E+04	6.11E+03	0.00E+00	2.39E+04	0.00E+00	4.22E+03	0.00E+00
CM-246	9.61E+04	7.80E+04	6.11E+03	0.00E+00	2.39E+04	0.00E+00	4.14E+03	0.00E+00
CM-247	9.37E+04	7.68E+04	6.00E+03	0.00E+00	2.35E+04	0.00E+00	5.44E+03	0.00E+00
CM-248	7.80E+05	6.35E+05	4.96E+04	0.00E+00	1.94E+05	0.00E+00	8.79E+04	0.00E+00
CF-252	6.11E+04	0.00E+00	1.48E+03	0.00E+00	0.00E+00	0.00E+00	1.72E+04	0.00E+00

Table 4-18 (Page 1 of 4)

Teen Drinking Water A_{it} mrem*mL/hr* μ Ci

<u>Nuclide</u>	<u>Bone</u>	<u>Liver</u>	<u>T Body</u>	<u>Thyroid</u>	<u>Kidney</u>	<u>Lung</u>	<u>GI-LLI</u>	<u>Skin</u>
H-3	0.00E+00	3.52E+00	3.52E+00	3.52E+00	3.52E+00	3.52E+00	3.52E+00	0.00E+00
C-14	2.36E+02	4.73E+01	4.73E+01	4.73E+01	4.73E+01	4.73E+01	4.73E+01	0.00E+00
NA-22	1.36E+03	1.36E+03	1.36E+03	1.36E+03	1.36E+03	1.36E+03	1.36E+03	0.00E+00
NA-24	7.69E+01	7.69E+01	7.69E+01	7.69E+01	7.69E+01	7.69E+01	7.69E+01	0.00E+00
P-32	1.57E+04	9.72E+02	6.08E+02	0.00E+00	0.00E+00	0.00E+00	1.32E+03	0.00E+00
CA-41	1.15E+04	0.00E+00	1.24E+03	0.00E+00	0.00E+00	0.00E+00	1.14E+01	0.00E+00
SC-46	4.20E-01	8.18E-01	2.42E-01	0.00E+00	7.83E-01	0.00E+00	2.78E+03	0.00E+00
CR-51	0.00E+00	0.00E+00	2.07E-01	1.15E-01	4.54E-02	2.96E-01	3.48E+01	0.00E+00
MN-54	0.00E+00	3.43E+02	6.80E+01	0.00E+00	1.02E+02	0.00E+00	7.04E+02	0.00E+00
FE-55	2.20E+02	1.56E+02	3.64E+01	0.00E+00	0.00E+00	9.89E+01	6.75E+01	0.00E+00
MN-56	0.00E+00	3.65E-01	6.50E-02	0.00E+00	4.63E-01	0.00E+00	2.41E+01	0.00E+00
CO-57	0.00E+00	1.38E+01	2.32E+01	0.00E+00	0.00E+00	0.00E+00	2.58E+02	0.00E+00
CO-58	0.00E+00	5.63E+01	1.30E+02	0.00E+00	0.00E+00	0.00E+00	7.76E+02	0.00E+00
FE-59	3.39E+02	7.91E+02	3.06E+02	0.00E+00	0.00E+00	2.50E+02	1.87E+03	0.00E+00
CO-60	0.00E+00	1.64E+02	3.68E+02	0.00E+00	0.00E+00	0.00E+00	2.13E+03	0.00E+00
NI-59	7.68E+02	2.71E+02	1.30E+02	0.00E+00	0.00E+00	0.00E+00	4.26E+01	0.00E+00
NI-63	1.03E+04	7.28E+02	3.49E+02	0.00E+00	0.00E+00	0.00E+00	1.16E+02	0.00E+00
CU-64	0.00E+00	3.48E+00	1.64E+00	0.00E+00	8.80E+00	0.00E+00	2.70E+02	0.00E+00
NI-65	1.61E+00	2.05E-01	9.36E-02	0.00E+00	0.00E+00	0.00E+00	1.11E+01	0.00E+00
ZN-65	3.35E+02	1.16E+03	5.42E+02	0.00E+00	7.44E+02	0.00E+00	4.92E+02	0.00E+00
ZN-69m	7.63E+00	1.80E+01	1.65E+00	0.00E+00	1.09E+01	0.00E+00	9.89E+02	0.00E+00
ZN-69	1.08E-04	2.06E-04	1.44E-05	0.00E+00	1.35E-04	0.00E+00	3.80E-04	0.00E+00
SE-79	0.00E+00	2.17E+02	3.65E+01	0.00E+00	3.78E+02	0.00E+00	3.32E+01	0.00E+00
BR-82	0.00E+00	0.00E+00	1.40E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
BR-83	0.00E+00	0.00E+00	1.03E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
BR-84	0.00E+00	0.00E+00	6.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
BR-85	0.00E+00	0.00E+00	4.38E-77	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
RB-86	0.00E+00	1.70E+03	8.00E+02	0.00E+00	0.00E+00	0.00E+00	2.52E+02	0.00E+00
RB-87	0.00E+00	1.02E+03	3.56E+02	0.00E+00	0.00E+00	0.00E+00	3.56E+01	0.00E+00
RB-88	0.00E+00	3.30E-12	1.76E-12	0.00E+00	0.00E+00	0.00E+00	2.83E-19	0.00E+00
RB-89	0.00E+00	2.94E-14	2.08E-14	0.00E+00	0.00E+00	0.00E+00	4.50E-23	0.00E+00
SR-89	2.54E+04	0.00E+00	7.29E+02	0.00E+00	0.00E+00	0.00E+00	3.03E+03	0.00E+00
SR-90	5.94E+05	0.00E+00	1.19E+04	0.00E+00	0.00E+00	0.00E+00	1.36E+04	0.00E+00
Y-90	7.01E-01	0.00E+00	1.89E-02	0.00E+00	0.00E+00	0.00E+00	5.78E+03	0.00E+00
SR-91	1.96E+02	0.00E+00	7.79E+00	0.00E+00	0.00E+00	0.00E+00	8.88E+02	0.00E+00
Y-91m	3.28E-07	0.00E+00	1.25E-08	0.00E+00	0.00E+00	0.00E+00	1.55E-05	0.00E+00
Y-91	1.16E+01	0.00E+00	3.12E-01	0.00E+00	0.00E+00	0.00E+00	4.77E+03	0.00E+00

Table 4-18 (Page 2 of 4)

Teen Drinking Water A_{it}

mrem*mL/hr* μ Ci

<u>Nuclide</u>	<u>Bone</u>	<u>Liver</u>	<u>T Body</u>	<u>Thyroid</u>	<u>Kidney</u>	<u>Lung</u>	<u>GI-LLI</u>	<u>Skin</u>
SR-92	8.25E+00	0.00E+00	3.52E-01	0.00E+00	0.00E+00	0.00E+00	2.10E+02	0.00E+00
Y-92	6.72E-03	0.00E+00	1.94E-04	0.00E+00	0.00E+00	0.00E+00	1.84E+02	0.00E+00
Y-93	9.79E-02	0.00E+00	2.68E-03	0.00E+00	0.00E+00	0.00E+00	2.99E+03	0.00E+00
NB-93m	2.00E+00	6.58E-01	1.65E-01	0.00E+00	7.68E-01	0.00E+00	2.37E+02	0.00E+00
NB-95	4.74E-01	2.63E-01	1.45E-01	0.00E+00	2.55E-01	0.00E+00	1.12E+03	0.00E+00
NB-97	4.23E-06	1.05E-06	3.83E-07	0.00E+00	1.23E-06	0.00E+00	2.51E-02	0.00E+00
ZR-93	3.22E+00	1.59E+00	8.67E-01	0.00E+00	5.62E+00	0.00E+00	1.50E+03	0.00E+00
ZR-95	2.39E+00	7.53E-01	5.18E-01	0.00E+00	1.11E+00	0.00E+00	1.74E+03	0.00E+00
ZR-97	8.43E-02	1.67E-02	7.69E-03	0.00E+00	2.53E-02	0.00E+00	4.52E+03	0.00E+00
MO-93	0.00E+00	6.17E+02	1.69E+01	0.00E+00	1.77E+02	0.00E+00	7.51E+01	0.00E+00
MO-99	0.00E+00	3.10E+02	5.90E+01	0.00E+00	7.08E+02	0.00E+00	5.54E+02	0.00E+00
TC-99	1.04E+01	1.53E+01	4.17E+00	0.00E+00	1.94E+02	1.58E+00	3.75E+02	0.00E+00
TC-99m	4.85E-03	1.35E-02	1.75E-01	0.00E+00	2.02E-01	7.52E-03	8.89E+00	0.00E+00
TC-101	1.14E-17	1.62E-17	1.60E-16	0.00E+00	2.94E-16	9.90E-18	2.78E-24	0.00E+00
RU-103	1.47E+01	0.00E+00	6.29E+00	0.00E+00	5.19E+01	0.00E+00	1.23E+03	0.00E+00
RU-105	1.95E-01	0.00E+00	7.57E-02	0.00E+00	2.46E+00	0.00E+00	1.57E+02	0.00E+00
RU-106	2.28E+02	0.00E+00	2.87E+01	0.00E+00	4.40E+02	0.00E+00	1.09E+04	0.00E+00
RH-105	7.96E+00	5.75E+00	3.77E+00	0.00E+00	2.44E+01	0.00E+00	7.32E+02	0.00E+00
PD-107	0.00E+00	1.21E+01	7.80E-01	0.00E+00	1.09E+02	0.00E+00	5.62E+01	0.00E+00
PD-109	0.00E+00	7.87E+00	1.79E+00	0.00E+00	4.55E+01	0.00E+00	7.94E+02	0.00E+00
AG-110m	1.19E+01	1.13E+01	6.86E+00	0.00E+00	2.15E+01	0.00E+00	3.17E+03	0.00E+00
AG-111	4.61E+00	1.91E+00	9.61E-01	0.00E+00	6.22E+00	0.00E+00	2.67E+03	0.00E+00
CD-113m	0.00E+00	2.63E+02	8.44E+00	0.00E+00	2.90E+02	0.00E+00	1.58E+03	0.00E+00
CD-115m	0.00E+00	1.50E+02	4.85E+00	0.00E+00	1.20E+02	0.00E+00	4.75E+03	0.00E+00
SN-123	2.58E+03	4.23E+01	6.27E+01	3.39E+01	0.00E+00	0.00E+00	3.90E+03	0.00E+00
SN-125	6.68E+02	1.33E+01	3.02E+01	1.04E+01	0.00E+00	0.00E+00	6.29E+03	0.00E+00
SN-126	6.75E+03	1.26E+02	1.92E+02	3.31E+01	0.00E+00	0.00E+00	1.50E+03	0.00E+00
SB-124	2.24E+02	4.13E+00	8.74E+01	5.08E-01	0.00E+00	1.96E+02	4.52E+03	0.00E+00
SB-125	1.44E+02	1.58E+00	3.38E+01	1.38E-01	0.00E+00	1.27E+02	1.12E+03	0.00E+00
SB-126	9.00E+01	1.84E+00	3.23E+01	5.09E-01	0.00E+00	6.45E+01	5.33E+03	0.00E+00
SB-127	1.93E+01	4.13E-01	7.29E+00	2.17E-01	0.00E+00	1.31E+01	3.28E+03	0.00E+00
TE-125m	2.22E+02	7.99E+01	2.96E+01	6.19E+01	0.00E+00	0.00E+00	6.54E+02	0.00E+00
TE-127m	5.61E+02	1.99E+02	6.67E+01	1.33E+02	2.27E+03	0.00E+00	1.40E+03	0.00E+00
TE-127	3.78E+00	1.34E+00	8.13E-01	2.61E+00	1.53E+01	0.00E+00	2.92E+02	0.00E+00
TE-129m	9.39E+02	3.49E+02	1.49E+02	3.03E+02	3.93E+03	0.00E+00	3.53E+03	0.00E+00
TE-129	2.01E-03	7.48E-04	4.88E-04	1.43E-03	8.42E-03	0.00E+00	1.10E-02	0.00E+00
TE-133m	4.59E-04	2.61E-04	2.54E-04	3.64E-04	2.58E-03	0.00E+00	1.05E-03	0.00E+00

Table 4-18 (Page 3 of 4)

Teen Drinking Water A_{II} mrem*mL/hr* μ Ci

<u>Nuclide</u>	<u>Bone</u>	<u>Liver</u>	<u>T Body</u>	<u>Thyroid</u>	<u>Kidney</u>	<u>Lung</u>	<u>GI-LLI</u>	<u>Skin</u>
TE-134	1.70E-05	1.09E-05	1.14E-05	1.39E-05	1.04E-04	0.00E+00	6.31E-07	0.00E+00
I-129	2.71E+02	2.28E+02	3.81E+02	2.78E+05	4.08E+02	0.00E+00	2.66E+01	0.00E+00
I-130	3.06E+01	8.85E+01	3.53E+01	7.22E+03	1.36E+02	0.00E+00	6.80E+01	0.00E+00
I-131	3.26E+02	4.57E+02	2.45E+02	1.33E+05	7.86E+02	0.00E+00	9.03E+01	0.00E+00
TE-131m	1.08E+02	5.16E+01	4.31E+01	7.77E+01	5.38E+02	0.00E+00	4.14E+03	0.00E+00
TE-131	3.48E-09	1.43E-09	1.09E-09	2.68E-09	1.52E-08	0.00E+00	2.85E-10	0.00E+00
I-132	4.37E-01	1.14E+00	4.10E-01	3.85E+01	1.80E+00	0.00E+00	4.98E-01	0.00E+00
TE-132	1.83E+02	1.16E+02	1.09E+02	1.22E+02	1.11E+03	0.00E+00	3.66E+03	0.00E+00
I-133	7.84E+01	1.33E+02	4.06E+01	1.86E+04	2.33E+02	0.00E+00	1.01E+02	0.00E+00
CS-134m	9.72E-02	2.01E-01	1.04E-01	0.00E+00	1.12E-01	1.97E-02	1.34E-01	0.00E+00
CS-134	4.87E+03	1.15E+04	5.32E+03	0.00E+00	3.64E+03	1.39E+03	1.43E+02	0.00E+00
I-134	6.44E-04	1.71E-03	6.13E-04	2.84E-02	2.69E-03	0.00E+00	2.25E-05	0.00E+00
I-135	1.01E+01	2.60E+01	9.63E+00	1.67E+03	4.10E+01	0.00E+00	2.88E+01	0.00E+00
CS-135	1.62E+03	1.48E+03	3.47E+02	0.00E+00	5.66E+02	2.05E+02	2.60E+01	0.00E+00
CS-136	4.87E+02	1.92E+03	1.29E+03	0.00E+00	1.04E+03	1.64E+02	1.54E+02	0.00E+00
CS-137	6.52E+03	8.67E+03	3.02E+03	0.00E+00	2.95E+03	1.15E+03	1.23E+02	0.00E+00
CS-138	8.39E-07	1.61E-06	8.06E-07	0.00E+00	1.19E-06	1.38E-07	7.31E-10	0.00E+00
CS-139	2.48E-23	3.66E-23	1.34E-23	0.00E+00	2.95E-23	3.23E-24	1.70E-38	0.00E+00
BA-139	1.99E-02	1.40E-05	5.81E-04	0.00E+00	1.32E-05	9.67E-06	1.78E-01	0.00E+00
BA-140	1.61E+03	1.97E+00	1.04E+02	0.00E+00	6.69E-01	1.33E+00	2.48E+03	0.00E+00
LA-140	1.65E-01	8.10E-02	2.15E-02	0.00E+00	0.00E+00	0.00E+00	4.65E+03	0.00E+00
BA-141	5.35E-12	4.00E-15	1.79E-13	0.00E+00	3.71E-15	2.74E-15	1.14E-17	0.00E+00
LA-141	3.21E-03	9.87E-04	1.63E-04	0.00E+00	0.00E+00	0.00E+00	1.75E+02	0.00E+00
CE-141	7.66E-01	5.12E-01	5.88E-02	0.00E+00	2.41E-01	0.00E+00	1.46E+03	0.00E+00
BA-142	9.65E-21	9.65E-24	5.94E-22	0.00E+00	8.17E-24	6.42E-24	2.96E-32	0.00E+00
LA-142	5.57E-05	2.47E-05	6.16E-06	0.00E+00	0.00E+00	0.00E+00	7.53E-01	0.00E+00
CE-143	1.06E-01	7.74E+01	8.64E-03	0.00E+00	3.47E-02	0.00E+00	2.33E+03	0.00E+00
PR-143	7.43E-01	2.97E-01	3.70E-02	0.00E+00	1.73E-01	0.00E+00	2.45E+03	0.00E+00
CE-144	4.05E+01	1.67E+01	2.17E+00	0.00E+00	1.00E+01	0.00E+00	1.02E+04	0.00E+00
PR-144	7.17E-16	2.94E-16	3.64E-17	0.00E+00	1.68E-16	0.00E+00	7.91E-19	0.00E+00
ND-147	5.29E-01	5.75E-01	3.45E-02	0.00E+00	3.38E-01	0.00E+00	2.08E+03	0.00E+00
PM-147	6.11E+00	5.80E-01	2.36E-01	0.00E+00	1.11E+00	0.00E+00	5.51E+02	0.00E+00
PM-148m	2.39E+00	6.06E-01	4.74E-01	0.00E+00	9.18E-01	0.00E+00	3.82E+03	0.00E+00
PM-148	5.57E-01	9.06E-02	4.56E-02	0.00E+00	1.64E-01	0.00E+00	5.40E+03	0.00E+00
PM-149	1.08E-01	1.52E-02	6.22E-03	0.00E+00	2.89E-02	0.00E+00	2.23E+03	0.00E+00
PM-151	4.29E-02	7.08E-03	3.58E-03	0.00E+00	1.27E-02	0.00E+00	1.59E+03	0.00E+00
SM-151	5.08E+00	9.78E-01	2.29E-01	0.00E+00	1.07E+00	0.00E+00	3.32E+02	0.00E+00

Table 4-18 (Page 4 of 4)

Teen Drinking Water A_{in} mrem*mL/hr* μ Ci

<u>Nuclide</u>	<u>Bone</u>	<u>Liver</u>	<u>T Body</u>	<u>Thyroid</u>	<u>Kidney</u>	<u>Lung</u>	<u>GI-LLI</u>	<u>Skin</u>
SM-153	5.94E-02	4.92E-02	3.62E-03	0.00E+00	1.61E-02	0.00E+00	1.39E+03	0.00E+00
EU-152	1.43E+01	3.43E+00	3.03E+00	0.00E+00	1.60E+01	0.00E+00	1.26E+03	0.00E+00
EU-154	4.60E+01	5.94E+00	4.19E+00	0.00E+00	2.65E+01	0.00E+00	3.14E+03	0.00E+00
EU-155	1.01E+01	9.78E-01	6.05E-01	0.00E+00	3.82E+00	0.00E+00	5.61E+03	0.00E+00
EU-156	1.09E+00	8.19E-01	1.34E-01	0.00E+00	5.51E-01	0.00E+00	4.19E+03	0.00E+00
TB-160	3.75E+00	0.00E+00	4.68E-01	0.00E+00	1.48E+00	0.00E+00	2.43E+03	0.00E+00
HO-166m	2.08E+01	6.40E+00	4.63E+00	0.00E+00	9.37E+00	0.00E+00	5.82E-17	0.00E+00
W-181	8.24E-01	2.66E-01	2.78E-02	0.00E+00	0.00E+00	0.00E+00	2.26E+01	0.00E+00
W-185	3.36E+01	1.11E+01	1.17E+00	0.00E+00	0.00E+00	0.00E+00	9.56E+02	0.00E+00
W-187	6.00E+00	4.89E+00	1.71E+00	0.00E+00	0.00E+00	0.00E+00	1.32E+03	0.00E+00
NP-239	8.84E-02	8.34E-03	4.63E-03	0.00E+00	2.62E-02	0.00E+00	1.34E+03	0.00E+00
U-232	3.43E+05	0.00E+00	2.45E+04	0.00E+00	3.71E+04	0.00E+00	4.19E+03	0.00E+00
U-233	7.22E+04	0.00E+00	4.39E+03	0.00E+00	1.69E+04	0.00E+00	3.87E+03	0.00E+00
U-234	6.93E+04	0.00E+00	4.30E+03	0.00E+00	1.66E+04	0.00E+00	3.79E+03	0.00E+00
U-235	6.64E+04	0.00E+00	4.04E+03	0.00E+00	1.55E+04	0.00E+00	4.82E+03	0.00E+00
U-236	6.64E+04	0.00E+00	4.13E+03	0.00E+00	1.59E+04	0.00E+00	3.56E+03	0.00E+00
U-237	4.36E+00	0.00E+00	1.16E+00	0.00E+00	1.79E+01	0.00E+00	1.16E+03	0.00E+00
U-238	6.35E+04	0.00E+00	3.78E+03	0.00E+00	1.46E+04	0.00E+00	3.39E+03	0.00E+00
NP-237	7.74E+04	5.56E+03	3.41E+03	0.00E+00	2.52E+04	0.00E+00	4.90E+03	0.00E+00
NP-238	9.64E-01	2.58E-02	1.50E-02	0.00E+00	8.85E-02	0.00E+00	1.89E+03	0.00E+00
PU-238	3.90E+04	5.00E+03	1.06E+03	0.00E+00	4.54E+03	0.00E+00	4.50E+03	0.00E+00
PU-239	4.45E+04	5.41E+03	1.17E+03	0.00E+00	4.99E+03	0.00E+00	4.11E+03	0.00E+00
PU-240	4.45E+04	5.40E+03	1.17E+03	0.00E+00	4.98E+03	0.00E+00	4.19E+03	0.00E+00
PU-241	1.02E+03	4.89E+01	2.15E+01	0.00E+00	9.95E+01	0.00E+00	8.62E+01	0.00E+00
PU-242	4.13E+04	5.20E+03	1.13E+03	0.00E+00	4.80E+03	0.00E+00	4.03E+03	0.00E+00
PU-244	4.82E+04	5.94E+03	1.29E+03	0.00E+00	5.50E+03	0.00E+00	6.00E+03	0.00E+00
AM-241	4.65E+04	4.38E+04	3.35E+03	0.00E+00	2.51E+04	0.00E+00	4.58E+03	0.00E+00
AM-242m	4.70E+04	4.14E+04	3.38E+03	0.00E+00	2.50E+04	0.00E+00	5.76E+03	0.00E+00
AM-243	4.63E+04	4.28E+04	3.27E+03	0.00E+00	2.46E+04	0.00E+00	5.37E+03	0.00E+00
CM-242	1.71E+03	1.80E+03	1.13E+02	0.00E+00	5.16E+02	0.00E+00	4.88E+03	0.00E+00
CM-243	3.78E+04	3.51E+04	2.38E+03	0.00E+00	1.11E+04	0.00E+00	4.82E+03	0.00E+00
CM-244	2.93E+04	2.78E+04	1.86E+03	0.00E+00	8.67E+03	0.00E+00	4.66E+03	0.00E+00
CM-245	5.76E+04	5.07E+04	3.55E+03	0.00E+00	1.66E+04	0.00E+00	4.34E+03	0.00E+00
CM-246	5.72E+04	5.07E+04	3.55E+03	0.00E+00	1.65E+04	0.00E+00	4.27E+03	0.00E+00
CM-247	5.57E+04	4.99E+04	3.49E+03	0.00E+00	1.63E+04	0.00E+00	5.61E+03	0.00E+00
CM-248	4.63E+05	4.11E+05	2.88E+04	0.00E+00	1.34E+05	0.00E+00	9.02E+04	0.00E+00
CF-252	2.02E+04	0.00E+00	4.87E+02	0.00E+00	0.00E+00	0.00E+00	1.78E+04	0.00E+00

Table 4-19 (Page 1 of 4)

Adult Drinking Water A_H mrem*mL/hr* μ Ci

<u>Nuclide</u>	<u>Bone</u>	<u>Liver</u>	<u>T Body</u>	<u>Thyroid</u>	<u>Kidney</u>	<u>Lung</u>	<u>GI-LLI</u>	<u>Skin</u>
H-3	0.00E+00	4.99E+00	4.99E+00	4.99E+00	4.99E+00	4.99E+00	4.99E+00	0.00E+00
C-14	2.37E+02	4.73E+01	4.73E+01	4.73E+01	4.73E+01	4.73E+01	4.73E+01	0.00E+00
NA-22	1.45E+03	1.45E+03	1.45E+03	1.45E+03	1.45E+03	1.45E+03	1.45E+03	0.00E+00
NA-24	8.14E+01	8.14E+01	8.14E+01	8.14E+01	8.14E+01	8.14E+01	8.14E+01	0.00E+00
P-32	1.57E+04	9.76E+02	6.07E+02	0.00E+00	0.00E+00	0.00E+00	1.77E+03	0.00E+00
CA-41	1.54E+04	0.00E+00	1.67E+03	0.00E+00	0.00E+00	0.00E+00	1.53E+01	0.00E+00
SC-46	4.57E-01	8.88E-01	2.58E-01	0.00E+00	8.29E-01	0.00E+00	4.32E+03	0.00E+00
CR-51	0.00E+00	0.00E+00	2.19E-01	1.31E-01	4.82E-02	2.91E-01	5.51E+01	0.00E+00
MN-54	0.00E+00	3.80E+02	7.26E+01	0.00E+00	1.13E+02	0.00E+00	1.17E+03	0.00E+00
FE-55	2.29E+02	1.58E+02	3.69E+01	0.00E+00	0.00E+00	8.83E+01	9.08E+01	0.00E+00
MN-56	0.00E+00	3.81E-01	6.75E-02	0.00E+00	4.83E-01	0.00E+00	1.21E+01	0.00E+00
CO-57	0.00E+00	1.46E+01	2.42E+01	0.00E+00	0.00E+00	0.00E+00	3.70E+02	0.00E+00
CO-58	0.00E+00	6.18E+01	1.38E+02	0.00E+00	0.00E+00	0.00E+00	1.25E+03	0.00E+00
FE-59	3.59E+02	8.43E+02	3.23E+02	0.00E+00	0.00E+00	2.36E+02	2.81E+03	0.00E+00
CO-60	0.00E+00	1.78E+02	3.93E+02	0.00E+00	0.00E+00	0.00E+00	3.35E+03	0.00E+00
NI-59	8.13E+02	2.79E+02	1.36E+02	0.00E+00	0.00E+00	0.00E+00	5.75E+01	0.00E+00
NI-63	1.08E+04	7.51E+02	3.63E+02	0.00E+00	0.00E+00	0.00E+00	1.57E+02	0.00E+00
CU-64	0.00E+00	3.61E+00	1.69E+00	0.00E+00	9.09E+00	0.00E+00	3.07E+02	0.00E+00
NI-65	1.62E+00	2.11E-01	9.61E-02	0.00E+00	0.00E+00	0.00E+00	5.34E+00	0.00E+00
ZN-65	4.03E+02	1.28E+03	5.79E+02	0.00E+00	8.57E+02	0.00E+00	8.07E+02	0.00E+00
ZN-69m	7.74E+00	1.86E+01	1.70E+00	0.00E+00	1.12E+01	0.00E+00	1.13E+03	0.00E+00
ZN-69	1.08E-04	2.08E-04	1.44E-05	0.00E+00	1.35E-04	0.00E+00	3.12E-05	0.00E+00
SE-79	0.00E+00	2.19E+02	3.66E+01	0.00E+00	3.79E+02	0.00E+00	4.48E+01	0.00E+00
BR-82	0.00E+00	0.00E+00	1.49E+02	0.00E+00	0.00E+00	0.00E+00	1.71E+02	0.00E+00
BR-83	0.00E+00	0.00E+00	1.03E-01	0.00E+00	0.00E+00	0.00E+00	1.49E-01	0.00E+00
BR-84	0.00E+00	0.00E+00	6.64E-07	0.00E+00	0.00E+00	0.00E+00	5.21E-12	0.00E+00
BR-85	0.00E+00	0.00E+00	4.40E-77	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
RB-86	0.00E+00	1.73E+03	8.04E+02	0.00E+00	0.00E+00	0.00E+00	3.40E+02	0.00E+00
RB-87	0.00E+00	1.03E+03	3.57E+02	0.00E+00	0.00E+00	0.00E+00	4.80E+01	0.00E+00
RB-88	0.00E+00	3.36E-12	1.78E-12	0.00E+00	0.00E+00	0.00E+00	4.64E-23	0.00E+00
RB-89	0.00E+00	3.06E-14	2.15E-14	0.00E+00	0.00E+00	0.00E+00	1.78E-27	0.00E+00
SR-89	2.55E+04	0.00E+00	7.32E+02	0.00E+00	0.00E+00	0.00E+00	4.09E+03	0.00E+00
SR-90	7.26E+05	0.00E+00	1.46E+04	0.00E+00	0.00E+00	0.00E+00	1.82E+04	0.00E+00
Y-90	7.04E-01	0.00E+00	1.89E-02	0.00E+00	0.00E+00	0.00E+00	7.47E+03	0.00E+00
SR-91	1.97E+02	0.00E+00	7.95E+00	0.00E+00	0.00E+00	0.00E+00	9.37E+02	0.00E+00
Y-91m	3.31E-07	0.00E+00	1.28E-08	0.00E+00	0.00E+00	0.00E+00	9.71E-07	0.00E+00
Y-91	1.17E+01	0.00E+00	3.12E-01	0.00E+00	0.00E+00	0.00E+00	6.43E+03	0.00E+00

Table 4-19 (Page 2 of 4)

Adult Drinking Water A_H mrem*mL/hr* μ Ci

<u>Nuclide</u>	<u>Bone</u>	<u>Liver</u>	<u>T Body</u>	<u>Thyroid</u>	<u>Kidney</u>	<u>Lung</u>	<u>GI-LLI</u>	<u>Skin</u>
SR-92	8.32E+00	0.00E+00	3.60E-01	0.00E+00	0.00E+00	0.00E+00	1.65E+02	0.00E+00
Y-92	6.72E-03	0.00E+00	1.96E-04	0.00E+00	0.00E+00	0.00E+00	1.18E+02	0.00E+00
Y-93	9.80E-02	0.00E+00	2.71E-03	0.00E+00	0.00E+00	0.00E+00	3.11E+03	0.00E+00
NB-93m	2.12E+00	6.93E-01	1.71E-01	0.00E+00	7.97E-01	0.00E+00	3.20E+02	0.00E+00
NB-95	5.13E-01	2.85E-01	1.53E-01	0.00E+00	2.82E-01	0.00E+00	1.73E+03	0.00E+00
NB-97	4.29E-06	1.08E-06	3.96E-07	0.00E+00	1.27E-06	0.00E+00	4.00E-03	0.00E+00
ZR-93	3.48E+00	1.95E-01	9.08E-02	0.00E+00	7.39E-01	0.00E+00	2.03E+02	0.00E+00
ZR-95	2.52E+00	8.08E-01	5.47E-01	0.00E+00	1.27E+00	0.00E+00	2.56E+03	0.00E+00
ZR-97	8.56E-02	1.73E-02	7.90E-03	0.00E+00	2.61E-02	0.00E+00	5.35E+03	0.00E+00
MO-93	0.00E+00	6.26E+02	1.69E+01	0.00E+00	1.78E+02	0.00E+00	1.02E+02	0.00E+00
MO-99	0.00E+00	3.17E+02	6.02E+01	0.00E+00	7.17E+02	0.00E+00	7.34E+02	0.00E+00
TC-99	1.04E+01	1.55E+01	4.18E+00	0.00E+00	1.95E+02	1.32E+00	5.07E+02	0.00E+00
TC-99m	5.17E-03	1.46E-02	1.86E-01	0.00E+00	2.22E-01	7.16E-03	8.64E+00	0.00E+00
TC-101	1.15E-17	1.66E-17	1.63E-16	0.00E+00	2.99E-16	8.50E-18	5.00E-29	0.00E+00
RU-103	1.53E+01	0.00E+00	6.58E+00	0.00E+00	5.83E+01	0.00E+00	1.78E+03	0.00E+00
RU-105	1.97E-01	0.00E+00	7.78E-02	0.00E+00	2.55E+00	0.00E+00	1.21E+02	0.00E+00
RU-106	2.29E+02	0.00E+00	2.90E+01	0.00E+00	4.42E+02	0.00E+00	1.48E+04	0.00E+00
RH-105	7.97E+00	5.83E+00	3.84E+00	0.00E+00	2.48E+01	0.00E+00	9.29E+02	0.00E+00
PD-107	0.00E+00	1.23E+01	7.83E-01	0.00E+00	1.10E+02	0.00E+00	7.59E+01	0.00E+00
PD-109	0.00E+00	7.95E+00	1.79E+00	0.00E+00	4.54E+01	0.00E+00	8.80E+02	0.00E+00
AG-110m	1.33E+01	1.23E+01	7.31E+00	0.00E+00	2.42E+01	0.00E+00	5.03E+03	0.00E+00
AG-111	4.62E+00	1.93E+00	9.63E-01	0.00E+00	6.24E+00	0.00E+00	3.55E+03	0.00E+00
CD-113m	0.00E+00	2.65E+02	8.50E+00	0.00E+00	2.92E+02	0.00E+00	2.13E+03	0.00E+00
CD-115m	0.00E+00	1.52E+02	4.85E+00	0.00E+00	1.21E+02	0.00E+00	6.40E+03	0.00E+00
SN-123	2.58E+03	4.28E+01	6.31E+01	3.64E+01	0.00E+00	0.00E+00	5.26E+03	0.00E+00
SN-125	6.70E+02	1.35E+01	3.04E+01	1.12E+01	0.00E+00	0.00E+00	8.36E+03	0.00E+00
SN-126	7.04E+03	1.39E+02	2.00E+02	4.10E+01	0.00E+00	0.00E+00	2.03E+03	0.00E+00
SB-124	2.32E+02	4.38E+00	9.20E+01	5.63E-01	0.00E+00	1.81E+02	6.59E+03	0.00E+00
SB-125	1.49E+02	1.67E+00	3.55E+01	1.52E-01	0.00E+00	1.15E+02	1.64E+03	0.00E+00
SB-126	9.32E+01	1.90E+00	3.36E+01	5.70E-01	0.00E+00	5.71E+01	7.62E+03	0.00E+00
SB-127	1.96E+01	4.30E-01	7.54E+00	2.36E-01	0.00E+00	1.17E+01	4.49E+03	0.00E+00
TE-125m	2.22E+02	8.04E+01	2.97E+01	6.68E+01	9.03E+02	0.00E+00	8.86E+02	0.00E+00
TE-127m	5.62E+02	2.01E+02	6.85E+01	1.44E+02	2.28E+03	0.00E+00	1.89E+03	0.00E+00
TE-127	3.77E+00	1.35E+00	8.15E-01	2.79E+00	1.53E+01	0.00E+00	2.97E+02	0.00E+00
TE-129m	9.48E+02	3.54E+02	1.50E+02	3.26E+02	3.96E+03	0.00E+00	4.78E+03	0.00E+00
TE-129	2.01E-03	7.56E-04	4.90E-04	1.54E-03	8.46E-03	0.00E+00	1.52E-03	0.00E+00
TE-133m	4.71E-04	2.75E-04	2.65E-04	3.99E-04	2.72E-03	0.00E+00	9.44E-05	0.00E+00

Table 4-19 (Page 3 of 4)

Adult Drinking Water A_{in}

mrem*mL/hr* μ Ci

<u>Nuclide</u>	<u>Bone</u>	<u>Liver</u>	<u>T Body</u>	<u>Thyroid</u>	<u>Kidney</u>	<u>Lung</u>	<u>GI-LLI</u>	<u>Skin</u>
TE-134	1.76E-05	1.15E-05	7.07E-06	1.54E-05	1.12E-04	0.00E+00	1.95E-08	0.00E+00
I-129	2.73E+02	2.34E+02	7.68E+02	6.03E+05	5.03E+02	0.00E+00	3.70E+01	0.00E+00
I-130	3.21E+01	9.48E+01	3.74E+01	8.04E+03	1.48E+02	0.00E+00	8.16E+01	0.00E+00
I-131	3.32E+02	4.75E+02	2.72E+02	1.56E+05	8.14E+02	0.00E+00	1.25E+02	0.00E+00
TE-131m	1.09E+02	5.34E+01	4.45E+01	8.46E+01	5.41E+02	0.00E+00	5.31E+03	0.00E+00
TE-131	3.51E-09	1.47E-09	1.11E-09	2.89E-09	1.54E-08	0.00E+00	4.97E-10	0.00E+00
I-132	4.55E-01	1.22E+00	4.26E-01	4.26E+01	1.94E+00	0.00E+00	2.28E-01	0.00E+00
TE-132	1.89E+02	1.22E+02	1.15E+02	1.35E+02	1.18E+03	0.00E+00	5.78E+03	0.00E+00
I-133	7.93E+01	1.38E+02	4.21E+01	2.03E+04	2.41E+02	0.00E+00	1.24E+02	0.00E+00
CS-134m	1.01E-01	2.12E-01	1.08E-01	0.00E+00	1.15E-01	1.81E-02	7.48E-02	0.00E+00
CS-134	5.18E+03	1.23E+04	1.01E+04	0.00E+00	3.99E+03	1.32E+03	2.16E+02	0.00E+00
I-134	6.69E-04	1.82E-03	6.50E-04	3.15E-02	2.89E-03	0.00E+00	1.58E-06	0.00E+00
I-135	1.05E+01	2.75E+01	1.01E+01	1.81E+03	4.40E+01	0.00E+00	3.10E+01	0.00E+00
CS-135	1.63E+03	1.50E+03	6.66E+02	0.00E+00	5.68E+02	1.70E+02	3.51E+01	0.00E+00
CS-136	5.28E+02	2.09E+03	1.50E+03	0.00E+00	1.16E+03	1.59E+02	2.37E+02	0.00E+00
CS-137	6.64E+03	9.08E+03	5.95E+03	0.00E+00	3.08E+03	1.02E+03	1.76E+02	0.00E+00
CS-138	8.54E-07	1.69E-06	8.36E-07	0.00E+00	1.24E-06	1.22E-07	7.20E-12	0.00E+00
CS-139	2.49E-23	3.71E-23	1.35E-23	0.00E+00	2.97E-23	2.70E-24	8.03E-46	0.00E+00
BA-139	1.99E-02	1.42E-05	5.83E-04	0.00E+00	1.33E-05	8.05E-06	3.53E-02	0.00E+00
BA-140	1.65E+03	2.07E+00	1.08E+02	0.00E+00	7.03E-01	1.18E+00	3.39E+03	0.00E+00
LA-140	1.69E-01	8.54E-02	2.26E-02	0.00E+00	0.00E+00	0.00E+00	6.27E+03	0.00E+00
BA-141	5.38E-12	4.06E-15	1.82E-13	0.00E+00	3.78E-15	2.31E-15	2.53E-21	0.00E+00
LA-141	3.22E-03	9.99E-04	1.63E-04	0.00E+00	0.00E+00	0.00E+00	1.19E+02	0.00E+00
CE-141	7.72E-01	5.22E-01	5.92E-02	0.00E+00	2.42E-01	0.00E+00	2.00E+03	0.00E+00
BA-142	9.84E-21	1.01E-23	6.19E-22	0.00E+00	8.55E-24	5.73E-24	1.39E-38	0.00E+00
LA-142	5.70E-05	2.59E-05	6.46E-06	0.00E+00	0.00E+00	0.00E+00	1.89E-01	0.00E+00
CE-143	1.07E-01	7.90E+01	8.74E-03	0.00E+00	3.48E-02	0.00E+00	2.95E+03	0.00E+00
PR-143	7.47E-01	3.00E-01	3.70E-02	0.00E+00	1.73E-01	0.00E+00	3.27E+03	0.00E+00
CE-144	4.06E+01	1.70E+01	2.18E+00	0.00E+00	1.01E+01	0.00E+00	1.37E+04	0.00E+00
PR-144	7.19E-16	2.98E-16	3.65E-17	0.00E+00	1.68E-16	0.00E+00	1.03E-22	0.00E+00
ND-147	5.08E-01	5.87E-01	3.51E-02	0.00E+00	3.43E-01	0.00E+00	2.82E+03	0.00E+00
PM-147	6.28E+00	5.91E-01	2.39E-01	0.00E+00	1.12E+00	0.00E+00	7.44E+02	0.00E+00
PM-148m	2.54E+00	6.57E-01	5.02E-01	0.00E+00	9.92E-01	0.00E+00	5.57E+03	0.00E+00
PM-148	5.60E-01	9.30E-02	4.68E-02	0.00E+00	1.76E-01	0.00E+00	7.30E+03	0.00E+00
PM-149	1.08E-01	1.53E-02	6.26E-03	0.00E+00	2.89E-02	0.00E+00	2.87E+03	0.00E+00
PM-151	4.33E-02	7.27E-03	3.67E-03	0.00E+00	1.30E-02	0.00E+00	2.00E+03	0.00E+00
SM-151	5.75E+00	9.92E-01	2.37E-01	0.00E+00	1.11E+00	0.00E+00	4.37E+02	0.00E+00

Table 4-19 (Page 4 of 4)

Adult Drinking Water A_{it} mrem*mL/hr* μ Ci

<u>Nuclide</u>	<u>Bone</u>	<u>Liver</u>	<u>T Body</u>	<u>Thyroid</u>	<u>Kidney</u>	<u>Lung</u>	<u>GI-LLI</u>	<u>Skin</u>
SM-153	5.98E-02	4.99E-02	3.64E-03	0.00E+00	1.61E-02	0.00E+00	1.78E+03	0.00E+00
EU-152	1.62E+01	3.70E+00	3.25E+00	0.00E+00	2.29E+01	0.00E+00	2.13E+03	0.00E+00
EU-154	5.12E+01	6.30E+00	4.48E+00	0.00E+00	3.02E+01	0.00E+00	4.57E+03	0.00E+00
EU-155	7.17E+00	1.02E+00	6.56E-01	0.00E+00	4.69E+00	0.00E+00	8.00E+02	0.00E+00
EU-156	1.12E+00	8.63E-01	1.39E-01	0.00E+00	5.77E-01	0.00E+00	5.91E+03	0.00E+00
TB-160	3.90E+00	0.00E+00	4.86E-01	0.00E+00	1.61E+00	0.00E+00	2.12E+03	0.00E+00
HO-166m	2.25E+01	7.02E+00	5.33E+00	0.00E+00	1.05E+01	0.00E+00	8.33E-17	0.00E+00
W-181	8.23E-01	2.68E-01	2.88E-02	0.00E+00	0.00E+00	0.00E+00	3.06E+01	0.00E+00
W-185	3.36E+01	1.12E+01	1.18E+00	0.00E+00	0.00E+00	0.00E+00	1.29E+03	0.00E+00
W-187	6.05E+00	5.06E+00	1.77E+00	0.00E+00	0.00E+00	0.00E+00	1.66E+03	0.00E+00
NP-239	8.56E-02	8.42E-03	4.64E-03	0.00E+00	2.63E-02	0.00E+00	1.73E+03	0.00E+00
U-232	3.44E+05	0.00E+00	2.46E+04	0.00E+00	3.72E+04	0.00E+00	5.65E+03	0.00E+00
U-233	7.26E+04	0.00E+00	4.40E+03	0.00E+00	1.69E+04	0.00E+00	5.23E+03	0.00E+00
U-234	6.97E+04	0.00E+00	4.31E+03	0.00E+00	1.66E+04	0.00E+00	5.12E+03	0.00E+00
U-235	6.68E+04	0.00E+00	4.05E+03	0.00E+00	1.56E+04	0.00E+00	6.51E+03	0.00E+00
U-236	6.68E+04	0.00E+00	4.13E+03	0.00E+00	1.59E+04	0.00E+00	4.80E+03	0.00E+00
U-237	4.37E+00	0.00E+00	1.16E+00	0.00E+00	1.80E+01	0.00E+00	1.54E+03	0.00E+00
U-238	6.39E+04	0.00E+00	3.78E+03	0.00E+00	1.46E+04	0.00E+00	4.58E+03	0.00E+00
NP-237	1.05E+05	7.47E+03	4.62E+03	0.00E+00	3.43E+04	0.00E+00	6.62E+03	0.00E+00
NP-238	9.69E-01	2.61E-02	1.51E-02	0.00E+00	8.84E-02	0.00E+00	2.43E+03	0.00E+00
PU-238	5.25E+04	6.65E+03	1.42E+03	0.00E+00	6.10E+03	0.00E+00	6.08E+03	0.00E+00
PU-239	6.04E+04	7.26E+03	1.59E+03	0.00E+00	6.76E+03	0.00E+00	5.55E+03	0.00E+00
PU-240	6.03E+04	7.25E+03	1.59E+03	0.00E+00	6.75E+03	0.00E+00	5.65E+03	0.00E+00
PU-241	1.31E+03	6.21E+01	2.77E+01	0.00E+00	1.27E+02	0.00E+00	1.17E+02	0.00E+00
PU-242	5.60E+04	6.99E+03	1.53E+03	0.00E+00	6.51E+03	0.00E+00	5.44E+03	0.00E+00
PU-244	6.53E+04	8.01E+03	1.76E+03	0.00E+00	7.46E+03	0.00E+00	8.11E+03	0.00E+00
AM-241	6.29E+04	5.87E+04	4.51E+03	0.00E+00	3.39E+04	0.00E+00	6.18E+03	0.00E+00
AM-242m	6.34E+04	5.52E+04	4.52E+03	0.00E+00	3.37E+04	0.00E+00	7.78E+03	0.00E+00
AM-243	6.28E+04	5.75E+04	4.42E+03	0.00E+00	3.33E+04	0.00E+00	7.25E+03	0.00E+00
CM-242	1.71E+03	1.82E+03	1.14E+02	0.00E+00	5.17E+02	0.00E+00	6.59E+03	0.00E+00
CM-243	4.99E+04	4.57E+04	3.12E+03	0.00E+00	1.46E+04	0.00E+00	6.51E+03	0.00E+00
CM-244	3.80E+04	3.56E+04	2.39E+03	0.00E+00	1.12E+04	0.00E+00	6.29E+03	0.00E+00
CM-245	7.82E+04	6.81E+04	4.80E+03	0.00E+00	2.24E+04	0.00E+00	5.87E+03	0.00E+00
CM-246	7.75E+04	6.80E+04	4.79E+03	0.00E+00	2.23E+04	0.00E+00	5.76E+03	0.00E+00
CM-247	7.56E+04	6.70E+04	4.73E+03	0.00E+00	2.20E+04	0.00E+00	7.58E+03	0.00E+00
CM-248	6.28E+05	5.53E+05	3.89E+04	0.00E+00	1.82E+05	0.00E+00	1.23E+05	0.00E+00
CF-252	2.17E+04	0.00E+00	5.24E+02	0.00E+00	0.00E+00	0.00E+00	2.40E+04	0.00E+00

Table 4-20 (Page 1 of 4)

Infant Fish A_{if} mrem*mL/hr* μ Ci

<u>Nuclide</u>	<u>Bone</u>	<u>Liver</u>	<u>T Body</u>	<u>Thyroid</u>	<u>Kidney</u>	<u>Lung</u>	<u>GI-LLI</u>	<u>Skin</u>
H-3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
C-14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
NA-22	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
NA-24	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
P-32	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CA-41	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
SC-46	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CR-51	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MN-54	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
FE-55	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MN-56	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CO-57	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CO-58	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
FE-59	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CO-60	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
NI-59	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
NI-63	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CU-64	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
NI-65	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ZN-65	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ZN-69m	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ZN-69	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
SE-79	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
BR-82	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
BR-83	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
BR-84	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
BR-85	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
RB-86	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
RB-87	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
RB-88	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
RB-89	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
SR-89	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
SR-90	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Y-90	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
SR-91	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Y-91m	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Y-91	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Table 4-20 (Page 2 of 4)

Infant Fish A_{it} mrem*mL/hr* μ Ci

<u>Nuclide</u>	<u>Bone</u>	<u>Liver</u>	<u>T Body</u>	<u>Thyroid</u>	<u>Kidney</u>	<u>Lung</u>	<u>GI-LLI</u>	<u>Skin</u>
SR-92	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Y-92	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Y-93	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
NB-93m	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
NB-95	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
NB-97	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ZR-93	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ZR-95	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ZR-97	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MO-93	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MO-99	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TC-99	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TC-99m	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TC-101	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
RU-103	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
RU-105	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
RU-106	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
RH-105	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PD-107	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PD-109	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
AG-110m	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
AG-111	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CD-113m	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CD-115m	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
SN-123	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
SN-125	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
SN-126	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
SB-124	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
SB-125	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
SB-126	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
SB-127	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TE-125m	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TE-127m	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TE-127	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TE-129m	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TE-129	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TE-133m	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Table 4-20 (Page 3 of 4)

Infant Fish A_{if} mrem*mL/hr* μ Ci

<u>Nuclide</u>	<u>Bone</u>	<u>Liver</u>	<u>T Body</u>	<u>Thyroid</u>	<u>Kidney</u>	<u>Lung</u>	<u>GI-LLI</u>	<u>Skin</u>
TE-134	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I-129	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I-130	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I-131	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TE-131m	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TE-131	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I-132	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TE-132	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I-133	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CS-134m	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CS-134	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I-134	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I-135	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CS-135	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CS-136	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CS-137	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CS-138	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CS-139	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
BA-139	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
BA-140	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LA-140	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
BA-141	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LA-141	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CE-141	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
BA-142	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LA-142	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CE-143	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PR-143	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CE-144	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PR-144	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ND-147	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PM-147	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PM-148m	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PM-148	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PM-149	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PM-151	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
SM-151	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Table 4-20 (Page 4 of 4)

Infant Fish A_{if} mrem*mL/hr* μ Ci

<u>Nuclide</u>	<u>Bone</u>	<u>Liver</u>	<u>T Body</u>	<u>Thyroid</u>	<u>Kidney</u>	<u>Lung</u>	<u>GI-LLI</u>	<u>Skin</u>
SM-153	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EU-152	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EU-154	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EU-155	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EU-156	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TB-160	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
HO-166m	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
W-181	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
W-185	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
W-187	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
NP-239	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
U-232	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
U-233	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
U-234	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
U-235	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
U-236	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
U-237	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
U-238	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
NP-237	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
NP-238	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PU-238	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PU-239	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PU-240	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PU-241	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PU-242	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PU-244	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
AM-241	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
AM-242m	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
AM-243	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CM-242	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CM-243	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CM-244	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CM-245	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CM-246	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CM-247	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CM-248	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CF-252	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Table 4-21 (Page 1 of 4)

Child Fish A_H

mrem*mL/hr* μ Ci

Nuclide	Bone	Liver	T Body	Thyroid	Kidney	Lung	GI-LLI	Skin
H-3	0.00E+00	8.22E-02	8.22E-02	8.22E-02	8.22E-02	8.22E-02	8.22E-02	0.00E+00
C-14	4.38E+04	8.77E+03	8.77E+03	8.77E+03	8.77E+03	8.77E+03	8.77E+03	0.00E+00
NA-22	4.63E+03	4.63E+03	4.63E+03	4.63E+03	4.63E+03	4.63E+03	4.63E+03	0.00E+00
NA-24	1.51E+02	1.51E+02	1.51E+02	1.51E+02	1.51E+02	1.51E+02	1.51E+02	0.00E+00
P-32	1.86E+06	8.69E+04	7.16E+04	0.00E+00	0.00E+00	0.00E+00	5.13E+04	0.00E+00
CA-41	1.09E+04	0.00E+00	1.19E+03	0.00E+00	0.00E+00	0.00E+00	5.99E+00	0.00E+00
SC-46	3.08E-02	4.22E-02	1.62E-02	0.00E+00	3.73E-02	0.00E+00	6.17E+01	0.00E+00
CR-51	0.00E+00	0.00E+00	1.37E+00	7.59E-01	2.07E-01	1.39E+00	7.25E+01	0.00E+00
MN-54	0.00E+00	3.36E+03	8.96E+02	0.00E+00	9.43E+02	0.00E+00	2.82E+03	0.00E+00
FE-55	9.05E+02	4.80E+02	1.49E+02	0.00E+00	0.00E+00	2.72E+02	8.89E+01	0.00E+00
MN-56	0.00E+00	1.66E-01	3.75E-02	0.00E+00	2.01E-01	0.00E+00	2.41E+01	0.00E+00
CO-57	0.00E+00	1.94E+01	3.92E+01	0.00E+00	0.00E+00	0.00E+00	1.59E+02	0.00E+00
CO-58	0.00E+00	7.02E+01	2.15E+02	0.00E+00	0.00E+00	0.00E+00	4.09E+02	0.00E+00
FE-59	1.28E+03	2.07E+03	1.03E+03	0.00E+00	0.00E+00	6.00E+02	2.16E+03	0.00E+00
CO-60	0.00E+00	2.08E+02	6.14E+02	0.00E+00	0.00E+00	0.00E+00	1.15E+03	0.00E+00
NI-59	3.17E+03	8.43E+02	5.37E+02	0.00E+00	0.00E+00	0.00E+00	5.59E+01	0.00E+00
NI-63	4.24E+04	2.27E+03	1.44E+03	0.00E+00	0.00E+00	0.00E+00	1.53E+02	0.00E+00
CU-64	0.00E+00	2.60E+00	1.57E+00	0.00E+00	6.29E+00	0.00E+00	1.22E+02	0.00E+00
NI-65	2.38E-01	2.24E-02	1.31E-02	0.00E+00	0.00E+00	0.00E+00	2.74E+00	0.00E+00
ZN-65	2.15E+04	5.73E+04	3.57E+04	0.00E+00	3.61E+04	0.00E+00	1.01E+04	0.00E+00
ZN-69m	3.34E+02	5.69E+02	6.72E+01	0.00E+00	3.30E+02	0.00E+00	1.85E+04	0.00E+00
ZN-69	1.10E-06	1.59E-06	1.47E-07	0.00E+00	9.67E-07	0.00E+00	1.00E-04	0.00E+00
SE-79	0.00E+00	1.13E+03	2.50E+02	0.00E+00	1.83E+03	0.00E+00	7.40E+01	0.00E+00
BR-82	0.00E+00	0.00E+00	1.56E+03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
BR-83	0.00E+00	0.00E+00	5.37E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
BR-84	0.00E+00	0.00E+00	1.53E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
BR-85	0.00E+00	0.00E+00	1.84E-151	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
RB-86	0.00E+00	1.02E+05	6.25E+04	0.00E+00	0.00E+00	0.00E+00	6.54E+03	0.00E+00
RB-87	0.00E+00	6.22E+04	2.88E+04	0.00E+00	0.00E+00	0.00E+00	9.33E+02	0.00E+00
RB-88	0.00E+00	1.33E-22	9.22E-23	0.00E+00	0.00E+00	0.00E+00	6.51E-24	0.00E+00
RB-89	0.00E+00	1.55E-26	1.38E-26	0.00E+00	0.00E+00	0.00E+00	1.35E-28	0.00E+00
SR-89	3.08E+04	0.00E+00	8.79E+02	0.00E+00	0.00E+00	0.00E+00	1.19E+03	0.00E+00
SR-90	6.05E+05	0.00E+00	1.22E+04	0.00E+00	0.00E+00	0.00E+00	5.41E+03	0.00E+00
Y-90	6.24E-01	0.00E+00	1.67E-02	0.00E+00	0.00E+00	0.00E+00	1.78E+03	0.00E+00
SR-91	9.84E+01	0.00E+00	3.72E+00	0.00E+00	0.00E+00	0.00E+00	2.17E+02	0.00E+00
Y-91m	1.43E-11	0.00E+00	5.21E-13	0.00E+00	0.00E+00	0.00E+00	2.81E-08	0.00E+00
Y-91	1.17E+01	0.00E+00	3.13E-01	0.00E+00	0.00E+00	0.00E+00	1.56E+03	0.00E+00

Table 4-21 (Page 2 of 4)

Child Fish A_{it} mrem*mL/hr* μ Ci

<u>Nuclide</u>	<u>Bone</u>	<u>Liver</u>	<u>T Body</u>	<u>Thyroid</u>	<u>Kidney</u>	<u>Lung</u>	<u>GI-LLI</u>	<u>Skin</u>
SR-92	4.60E-01	0.00E+00	1.85E-02	0.00E+00	0.00E+00	0.00E+00	8.72E+00	0.00E+00
Y-92	6.45E-04	0.00E+00	1.85E-05	0.00E+00	0.00E+00	0.00E+00	1.86E+01	0.00E+00
Y-93	4.32E-02	0.00E+00	1.19E-03	0.00E+00	0.00E+00	0.00E+00	6.45E+02	0.00E+00
NB-93m	2.48E+03	6.19E+02	2.03E+02	0.00E+00	6.69E+02	0.00E+00	9.33E+04	0.00E+00
NB-95	5.21E+02	2.03E+02	1.45E+02	0.00E+00	1.91E+02	0.00E+00	3.75E+05	0.00E+00
NB-97	4.99E-06	9.01E-07	4.20E-07	0.00E+00	9.99E-07	0.00E+00	2.78E-01	0.00E+00
ZR-93	4.34E-01	1.62E-01	1.16E-01	0.00E+00	6.29E-01	0.00E+00	6.16E+01	0.00E+00
ZR-95	2.98E-01	6.56E-02	5.84E-02	0.00E+00	9.39E-02	0.00E+00	6.84E+01	0.00E+00
ZR-97	6.79E-03	9.81E-04	5.79E-04	0.00E+00	1.41E-03	0.00E+00	1.49E+02	0.00E+00
MO-93	0.00E+00	1.90E+02	6.81E+00	0.00E+00	5.00E+01	0.00E+00	9.61E+00	0.00E+00
MO-99	0.00E+00	8.14E+01	2.01E+01	0.00E+00	1.74E+02	0.00E+00	6.73E+01	0.00E+00
TC-99	6.32E+00	7.04E+00	2.53E+00	0.00E+00	8.29E+01	6.23E-01	7.38E+01	0.00E+00
TC-99m	6.88E-04	1.35E-03	2.24E-02	0.00E+00	1.96E-02	6.85E-04	7.68E-01	0.00E+00
TC-101	3.76E-33	3.93E-33	4.99E-32	0.00E+00	6.71E-32	2.08E-33	1.25E-32	0.00E+00
RU-103	5.66E+00	0.00E+00	2.17E+00	0.00E+00	1.42E+01	0.00E+00	1.46E+02	0.00E+00
RU-105	1.20E-02	0.00E+00	4.35E-03	0.00E+00	1.05E-01	0.00E+00	7.82E+00	0.00E+00
RU-106	9.20E+01	0.00E+00	1.15E+01	0.00E+00	1.24E+02	0.00E+00	1.43E+03	0.00E+00
RH-105	2.53E+00	1.36E+00	1.16E+00	0.00E+00	5.41E+00	0.00E+00	8.41E+01	0.00E+00
PD-107	0.00E+00	3.72E+00	3.16E-01	0.00E+00	3.11E+01	0.00E+00	7.38E+00	0.00E+00
PD-109	0.00E+00	1.30E+00	3.89E-01	0.00E+00	6.95E+00	0.00E+00	7.66E+01	0.00E+00
AG-110m	9.74E-01	6.58E-01	5.26E-01	0.00E+00	1.22E+00	0.00E+00	7.82E+01	0.00E+00
AG-111	4.09E-01	1.28E-01	8.45E-02	0.00E+00	3.86E-01	0.00E+00	7.84E+01	0.00E+00
CD-113m	0.00E+00	1.61E+03	6.84E+01	0.00E+00	1.65E+03	0.00E+00	4.14E+03	0.00E+00
CD-115m	0.00E+00	9.14E+02	3.89E+01	0.00E+00	6.79E+02	0.00E+00	1.24E+04	0.00E+00
SN-123	3.13E+05	3.88E+03	7.62E+03	4.11E+03	0.00E+00	0.00E+00	1.53E+05	0.00E+00
SN-125	7.81E+04	1.18E+03	3.50E+03	1.22E+03	0.00E+00	0.00E+00	2.42E+05	0.00E+00
SN-126	7.87E+05	9.81E+03	2.24E+04	2.69E+03	0.00E+00	0.00E+00	5.91E+04	0.00E+00
SB-124	8.64E+00	1.12E-01	3.03E+00	1.91E-02	0.00E+00	4.80E+00	5.40E+01	0.00E+00
SB-125	5.64E+00	4.34E-02	1.18E+00	5.22E-03	0.00E+00	3.14E+00	1.35E+01	0.00E+00
SB-126	3.28E+00	5.01E-02	1.18E+00	1.92E-02	0.00E+00	1.56E+00	6.61E+01	0.00E+00
SB-127	6.97E-01	1.08E-02	2.42E-01	7.76E-03	0.00E+00	3.03E-01	3.93E+01	0.00E+00
TE-125m	3.55E+03	9.62E+02	4.73E+02	9.96E+02	0.00E+00	0.00E+00	3.42E+03	0.00E+00
TE-127m	9.05E+03	2.44E+03	1.07E+03	2.16E+03	2.58E+04	0.00E+00	7.33E+03	0.00E+00
TE-127	2.50E+01	6.75E+00	5.37E+00	1.73E+01	7.13E+01	0.00E+00	9.78E+02	0.00E+00
TE-129m	1.50E+04	4.20E+03	2.33E+03	4.85E+03	4.41E+04	0.00E+00	1.83E+04	0.00E+00
TE-129	2.50E-05	6.97E-06	5.92E-06	1.78E-05	7.30E-05	0.00E+00	1.55E-03	0.00E+00
TE-133m	8.82E-07	3.57E-07	4.42E-07	6.84E-07	3.39E-06	0.00E+00	2.72E-05	0.00E+00

Table 4-21 (Page 3 of 4)

Child Fish A_h mrem*mL/hr* μ Ci

<u>Nuclide</u>	<u>Bone</u>	<u>Liver</u>	<u>T Body</u>	<u>Thyroid</u>	<u>Kidney</u>	<u>Lung</u>	<u>GI-LLI</u>	<u>Skin</u>
TE-134	1.73E-09	7.79E-10	1.04E-09	1.37E-09	7.21E-09	0.00E+00	7.91E-09	0.00E+00
I-129	1.64E+02	1.01E+02	9.00E+01	6.59E+04	1.70E+02	0.00E+00	5.07E+00	0.00E+00
I-130	8.98E+00	1.81E+01	9.35E+00	2.00E+03	2.71E+01	0.00E+00	8.49E+00	0.00E+00
I-131	1.86E+02	1.88E+02	1.07E+02	6.20E+04	3.08E+02	0.00E+00	1.67E+01	0.00E+00
TE-131m	1.30E+03	4.51E+02	4.80E+02	9.27E+02	4.36E+03	0.00E+00	1.83E+04	0.00E+00
TE-131	1.20E-16	3.65E-17	3.56E-17	9.16E-17	3.62E-16	0.00E+00	6.29E-16	0.00E+00
I-132	6.83E-03	1.25E-02	5.77E-03	5.82E-01	1.92E-02	0.00E+00	1.48E-02	0.00E+00
TE-132	2.57E+03	1.14E+03	1.38E+03	1.66E+03	1.06E+04	0.00E+00	1.15E+04	0.00E+00
I-133	3.14E+01	3.89E+01	1.47E+01	7.22E+03	6.48E+01	0.00E+00	1.57E+01	0.00E+00
CS-134m	4.29E-01	6.35E-01	4.15E-01	0.00E+00	3.35E-01	5.54E-02	8.03E-01	0.00E+00
CS-134	3.68E+05	6.04E+05	1.27E+05	0.00E+00	1.87E+05	6.72E+04	3.26E+03	0.00E+00
I-134	2.84E-08	5.28E-08	2.43E-08	1.21E-06	8.07E-08	0.00E+00	3.50E-08	0.00E+00
I-135	1.67E+00	3.00E+00	1.42E+00	2.66E+02	4.61E+00	0.00E+00	2.29E+00	0.00E+00
CS-135	1.31E+05	9.11E+04	9.34E+03	0.00E+00	3.21E+04	1.07E+04	6.82E+02	0.00E+00
CS-136	3.51E+04	9.65E+04	6.25E+04	0.00E+00	5.14E+04	7.67E+03	3.39E+03	0.00E+00
CS-137	5.15E+05	4.93E+05	7.28E+04	0.00E+00	1.61E+05	5.78E+04	3.09E+03	0.00E+00
CS-138	1.24E-11	1.72E-11	1.09E-11	0.00E+00	1.21E-11	1.30E-12	7.93E-12	0.00E+00
CS-139	1.75E-44	1.95E-44	9.35E-45	0.00E+00	1.46E-44	1.47E-45	1.75E-48	0.00E+00
BA-139	7.93E-06	4.23E-09	2.30E-07	0.00E+00	3.69E-09	2.49E-09	4.58E-04	0.00E+00
BA-140	2.48E+02	2.17E-01	1.45E+01	0.00E+00	7.07E-02	1.30E-01	1.26E+02	0.00E+00
LA-140	1.32E-01	4.60E-02	1.55E-02	0.00E+00	0.00E+00	0.00E+00	1.28E+03	0.00E+00
BA-141	1.18E-24	6.62E-28	3.85E-26	0.00E+00	5.73E-28	3.89E-27	6.74E-25	0.00E+00
LA-141	3.93E-04	9.16E-05	1.99E-05	0.00E+00	0.00E+00	0.00E+00	2.04E+01	0.00E+00
CE-141	3.06E-02	1.53E-02	2.27E-03	0.00E+00	6.69E-03	0.00E+00	1.90E+01	0.00E+00
BA-142	8.46E-42	6.09E-45	4.72E-43	0.00E+00	4.93E-45	3.58E-45	1.10E-43	0.00E+00
LA-142	2.95E-07	9.40E-08	2.94E-08	0.00E+00	0.00E+00	0.00E+00	1.86E-02	0.00E+00
CE-143	3.33E-03	1.80E+00	2.61E-04	0.00E+00	7.57E-04	0.00E+00	2.64E+01	0.00E+00
PR-143	7.35E-01	2.21E-01	3.65E-02	0.00E+00	1.20E-01	0.00E+00	7.93E+02	0.00E+00
CE-144	1.63E+00	5.12E-01	8.72E-02	0.00E+00	2.84E-01	0.00E+00	1.34E+02	0.00E+00
PR-144	2.08E-28	6.45E-29	1.05E-29	0.00E+00	3.41E-29	0.00E+00	1.39E-25	0.00E+00
ND-147	5.16E-01	4.18E-01	3.24E-02	0.00E+00	2.29E-01	0.00E+00	6.62E+02	0.00E+00
PM-147	6.26E+00	4.47E-01	2.40E-01	0.00E+00	7.89E-01	0.00E+00	1.81E+02	0.00E+00
PM-148m	1.99E+00	3.97E-01	3.97E-01	0.00E+00	5.89E-01	0.00E+00	1.12E+03	0.00E+00
PM-148	5.23E-01	6.28E-02	4.07E-02	0.00E+00	1.07E-01	0.00E+00	1.68E+03	0.00E+00
PM-149	9.34E-02	9.93E-03	5.38E-03	0.00E+00	1.76E-02	0.00E+00	6.78E+02	0.00E+00
PM-151	3.20E-02	3.89E-03	2.53E-03	0.00E+00	6.60E-03	0.00E+00	4.42E+02	0.00E+00
SM-151	5.04E+00	7.50E-01	2.36E-01	0.00E+00	7.76E-01	0.00E+00	1.09E+02	0.00E+00

Table 4-21 (Page 4 of 4)

Child Fish A_{if} mrem*mL/hr* μ Ci

<u>Nuclide</u>	<u>Bone</u>	<u>Liver</u>	<u>T Body</u>	<u>Thyroid</u>	<u>Kidney</u>	<u>Lung</u>	<u>GI-LLI</u>	<u>Skin</u>
SM-153	5.03E-02	3.13E-02	3.02E-03	0.00E+00	9.53E-03	0.00E+00	4.16E+02	0.00E+00
EU-152	1.21E+01	2.21E+00	2.62E+00	0.00E+00	9.31E+00	0.00E+00	3.62E+02	0.00E+00
EU-154	4.53E+01	4.08E+00	3.72E+00	0.00E+00	1.79E+01	0.00E+00	9.47E+02	0.00E+00
EU-155	9.49E+00	6.83E-01	5.35E-01	0.00E+00	2.56E+00	0.00E+00	1.71E+03	0.00E+00
EU-156	1.06E+00	5.66E-01	1.17E-01	0.00E+00	3.65E-01	0.00E+00	1.28E+03	0.00E+00
TB-160	3.24E+00	0.00E+00	4.02E-01	0.00E+00	9.63E-01	0.00E+00	7.18E+02	0.00E+00
HO-166m	2.13E+01	4.45E+00	3.76E+00	0.00E+00	6.34E+00	0.00E+00	1.97E-17	0.00E+00
W-181	3.98E+01	9.77E+00	1.34E+00	0.00E+00	0.00E+00	0.00E+00	3.56E+02	0.00E+00
W-185	1.62E+03	4.05E+02	5.67E+01	0.00E+00	0.00E+00	0.00E+00	1.51E+04	0.00E+00
W-187	2.02E+02	1.19E+02	5.36E+01	0.00E+00	0.00E+00	0.00E+00	1.68E+04	0.00E+00
NP-239	3.08E-02	2.21E-03	1.56E-03	0.00E+00	6.40E-03	0.00E+00	1.64E+02	0.00E+00
U-232	2.77E+04	0.00E+00	1.98E+03	0.00E+00	2.11E+03	0.00E+00	1.10E+02	0.00E+00
U-233	5.86E+03	0.00E+00	3.54E+02	0.00E+00	9.61E+02	0.00E+00	1.02E+02	0.00E+00
U-234	5.62E+03	0.00E+00	3.48E+02	0.00E+00	9.42E+02	0.00E+00	9.96E+01	0.00E+00
U-235	5.39E+03	0.00E+00	3.26E+02	0.00E+00	8.84E+02	0.00E+00	1.27E+02	0.00E+00
U-236	5.39E+03	0.00E+00	3.34E+02	0.00E+00	9.03E+02	0.00E+00	9.33E+01	0.00E+00
U-237	3.35E-01	0.00E+00	8.91E-02	0.00E+00	9.68E-01	0.00E+00	2.96E+01	0.00E+00
U-238	5.15E+03	0.00E+00	3.06E+02	0.00E+00	8.25E+02	0.00E+00	8.92E+01	0.00E+00
NP-237	1.76E+04	1.16E+03	7.71E+02	0.00E+00	4.77E+03	0.00E+00	6.43E+02	0.00E+00
NP-238	3.31E-01	6.70E-03	5.16E-03	0.00E+00	2.13E-02	0.00E+00	2.29E+02	0.00E+00
PU-238	3.28E+03	3.80E+02	8.71E+01	0.00E+00	3.17E+02	0.00E+00	2.07E+02	0.00E+00
PU-239	3.56E+03	3.80E+02	9.13E+01	0.00E+00	3.36E+02	0.00E+00	1.89E+02	0.00E+00
PU-240	3.53E+03	3.94E+02	9.13E+01	0.00E+00	3.36E+02	0.00E+00	1.92E+02	0.00E+00
PU-241	1.07E+02	4.36E+00	2.22E+00	0.00E+00	8.16E+00	0.00E+00	3.97E+00	0.00E+00
PU-242	3.28E+03	3.80E+02	8.79E+01	0.00E+00	3.23E+02	0.00E+00	1.85E+02	0.00E+00
PU-244	3.83E+03	4.36E+03	1.01E+02	0.00E+00	3.72E+02	0.00E+00	2.76E+02	0.00E+00
AM-241	2.68E+04	2.30E+04	2.01E+03	0.00E+00	1.23E+04	0.00E+00	1.50E+03	0.00E+00
AM-242m	2.76E+04	2.21E+04	2.05E+03	0.00E+00	1.24E+04	0.00E+00	1.89E+03	0.00E+00
AM-243	2.64E+04	2.23E+04	1.94E+03	0.00E+00	1.19E+04	0.00E+00	1.76E+03	0.00E+00
CM-242	1.72E+03	1.37E+03	1.15E+02	0.00E+00	3.67E+02	0.00E+00	1.60E+03	0.00E+00
CM-243	2.52E+04	2.05E+04	1.62E+03	0.00E+00	6.06E+03	0.00E+00	1.58E+03	0.00E+00
CM-244	2.13E+04	1.72E+04	1.36E+03	0.00E+00	5.00E+03	0.00E+00	1.53E+03	0.00E+00
CM-245	3.29E+04	2.64E+04	2.07E+03	0.00E+00	8.09E+03	0.00E+00	1.43E+03	0.00E+00
CM-246	3.25E+04	2.64E+04	2.07E+03	0.00E+00	8.07E+03	0.00E+00	1.40E+03	0.00E+00
CM-247	3.17E+04	2.60E+04	2.03E+03	0.00E+00	7.96E+03	0.00E+00	1.84E+03	0.00E+00
CM-248	2.64E+05	2.15E+05	1.68E+04	0.00E+00	6.56E+04	0.00E+00	2.97E+04	0.00E+00
CF-252	2.07E+04	0.00E+00	5.00E+02	0.00E+00	0.00E+00	0.00E+00	5.82E+03	0.00E+00

Table 4-22 (Page 1 of 4)

Teen Fish A_H mrem*mL/hr* μ Ci

<u>Nuclide</u>	<u>Bone</u>	<u>Liver</u>	<u>T Body</u>	<u>Thyroid</u>	<u>Kidney</u>	<u>Lung</u>	<u>GI-LLI</u>	<u>Skin</u>
H-3	0.00E+00	9.93E-02	9.93E-02	9.93E-02	9.93E-02	9.93E-02	9.93E-02	0.00E+00
C-14	3.41E+04	6.82E+03	6.82E+03	6.82E+03	6.82E+03	6.82E+03	6.82E+03	0.00E+00
NA-22	4.27E+03	4.27E+03	4.27E+03	4.27E+03	4.27E+03	4.27E+03	4.27E+03	0.00E+00
NA-24	1.39E+02	1.39E+02	1.39E+02	1.39E+02	1.39E+02	1.39E+02	1.39E+02	0.00E+00
P-32	1.44E+06	8.93E+04	5.59E+04	0.00E+00	0.00E+00	0.00E+00	1.21E+05	0.00E+00
CA-41	1.44E+04	0.00E+00	1.56E+03	0.00E+00	0.00E+00	0.00E+00	1.42E+01	0.00E+00
SC-46	2.62E-02	5.11E-02	1.51E-02	0.00E+00	4.89E-02	0.00E+00	1.74E+02	0.00E+00
CR-51	0.00E+00	0.00E+00	1.28E+00	7.13E-01	2.81E-01	1.83E+00	2.16E+02	0.00E+00
MN-54	0.00E+00	4.30E+03	8.53E+02	0.00E+00	1.28E+03	0.00E+00	8.82E+03	0.00E+00
FE-55	6.90E+02	4.89E+02	1.14E+02	0.00E+00	0.00E+00	3.10E+02	2.12E+02	0.00E+00
MN-56	0.00E+00	1.82E-01	3.24E-02	0.00E+00	2.31E-01	0.00E+00	1.20E+01	0.00E+00
CO-57	0.00E+00	2.17E+01	3.63E+01	0.00E+00	0.00E+00	0.00E+00	4.04E+02	0.00E+00
CO-58	0.00E+00	8.79E+01	2.03E+02	0.00E+00	0.00E+00	0.00E+00	1.21E+03	0.00E+00
FE-59	1.06E+03	2.46E+03	9.51E+02	0.00E+00	0.00E+00	7.77E+02	5.83E+03	0.00E+00
CO-60	0.00E+00	2.57E+02	5.78E+02	0.00E+00	0.00E+00	0.00E+00	3.34E+03	0.00E+00
NI-59	2.41E+03	8.51E+02	4.09E+02	0.00E+00	0.00E+00	0.00E+00	1.34E+02	0.00E+00
NI-63	3.23E+04	2.28E+03	1.10E+03	0.00E+00	0.00E+00	0.00E+00	3.63E+02	0.00E+00
CU-64	0.00E+00	2.83E+00	1.33E+00	0.00E+00	7.17E+00	0.00E+00	2.20E+02	0.00E+00
NI-65	1.86E-01	2.37E-02	1.08E-02	0.00E+00	0.00E+00	0.00E+00	1.29E+00	0.00E+00
ZN-65	2.10E+04	7.29E+04	3.40E+04	0.00E+00	4.66E+04	0.00E+00	3.09E+04	0.00E+00
ZN-69m	2.62E+02	6.17E+02	5.66E+01	0.00E+00	3.75E+02	0.00E+00	3.39E+04	0.00E+00
ZN-69	8.58E-07	1.63E-06	1.14E-07	0.00E+00	1.07E-06	0.00E+00	3.01E-06	0.00E+00
SE-79	0.00E+00	1.16E+03	1.95E+02	0.00E+00	2.02E+03	0.00E+00	1.77E+02	0.00E+00
BR-82	0.00E+00	0.00E+00	1.46E+03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
BR-83	0.00E+00	0.00E+00	4.18E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
BR-84	0.00E+00	0.00E+00	1.29E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
BR-85	0.00E+00	0.00E+00	1.43E-151	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
RB-86	0.00E+00	1.05E+05	4.93E+04	0.00E+00	0.00E+00	0.00E+00	1.55E+04	0.00E+00
RB-87	0.00E+00	6.39E+04	2.23E+04	0.00E+00	0.00E+00	0.00E+00	2.23E+03	0.00E+00
RB-88	0.00E+00	1.38E-22	7.36E-23	0.00E+00	0.00E+00	0.00E+00	1.18E-29	0.00E+00
RB-89	0.00E+00	1.69E-26	1.19E-26	0.00E+00	0.00E+00	0.00E+00	2.59E-35	0.00E+00
SR-89	2.38E+04	0.00E+00	6.81E+02	0.00E+00	0.00E+00	0.00E+00	2.83E+03	0.00E+00
SR-90	5.59E+05	0.00E+00	1.12E+04	0.00E+00	0.00E+00	0.00E+00	1.28E+04	0.00E+00
Y-90	4.83E-01	0.00E+00	1.30E-02	0.00E+00	0.00E+00	0.00E+00	3.98E+03	0.00E+00
SR-91	7.68E+01	0.00E+00	3.05E+00	0.00E+00	0.00E+00	0.00E+00	3.48E+02	0.00E+00
Y-91m	1.12E-11	0.00E+00	4.29E-13	0.00E+00	0.00E+00	0.00E+00	5.30E-10	0.00E+00
Y-91	9.07E+00	0.00E+00	2.43E-01	0.00E+00	0.00E+00	0.00E+00	3.72E+03	0.00E+00

Table 4-22 (Page 2 of 4)

Teen Fish A_H

mrem*mL/hr* μ Ci

<u>Nuclide</u>	<u>Bone</u>	<u>Liver</u>	<u>T Body</u>	<u>Thyroid</u>	<u>Kidney</u>	<u>Lung</u>	<u>GI-LLI</u>	<u>Skin</u>
SR-92	3.61E-01	0.00E+00	1.54E-02	0.00E+00	0.00E+00	0.00E+00	9.19E+00	0.00E+00
Y-92	5.03E-04	0.00E+00	1.45E-05	0.00E+00	0.00E+00	0.00E+00	1.38E+01	0.00E+00
Y-93	3.37E-02	0.00E+00	9.23E-04	0.00E+00	0.00E+00	0.00E+00	1.03E+03	0.00E+00
NB-93m	1.88E+03	6.19E+02	1.55E+02	0.00E+00	7.23E+02	0.00E+00	2.23E+05	0.00E+00
NB-95	4.42E+02	2.45E+02	1.35E+02	0.00E+00	2.37E+02	0.00E+00	1.05E+06	0.00E+00
NB-97	3.93E-06	9.75E-07	3.56E-07	0.00E+00	1.14E-06	0.00E+00	2.33E-02	0.00E+00
ZR-93	3.33E-01	1.65E-01	8.98E-02	0.00E+00	5.82E-01	0.00E+00	1.56E+02	0.00E+00
ZR-95	2.46E-01	7.75E-02	5.33E-02	0.00E+00	1.14E-01	0.00E+00	1.79E+02	0.00E+00
ZR-97	5.34E-03	1.06E-03	4.87E-04	0.00E+00	1.60E-03	0.00E+00	2.86E+02	0.00E+00
MO-93	0.00E+00	1.94E+02	5.30E+00	0.00E+00	5.55E+01	0.00E+00	2.36E+01	0.00E+00
MO-99	0.00E+00	8.56E+01	1.63E+01	0.00E+00	1.96E+02	0.00E+00	1.53E+02	0.00E+00
TC-99	4.90E+00	7.21E+00	1.96E+00	0.00E+00	9.15E+01	7.45E-01	1.76E+02	0.00E+00
TC-99m	5.74E-04	1.60E-03	2.07E-02	0.00E+00	2.38E-02	8.88E-04	1.05E+00	0.00E+00
TC-101	2.93E-33	4.17E-33	4.10E-32	0.00E+00	7.54E-32	2.54E-33	7.12E-40	0.00E+00
RU-103	4.58E+00	0.00E+00	1.96E+00	0.00E+00	1.61E+01	0.00E+00	3.82E+02	0.00E+00
RU-105	9.39E-03	0.00E+00	3.65E-03	0.00E+00	1.19E-01	0.00E+00	7.58E+00	0.00E+00
RU-106	7.15E+01	0.00E+00	9.01E+00	0.00E+00	1.38E+02	0.00E+00	3.43E+03	0.00E+00
RH-105	1.97E+00	1.43E+00	9.36E-01	0.00E+00	6.06E+00	0.00E+00	1.81E+02	0.00E+00
PD-107	0.00E+00	3.80E+00	2.45E-01	0.00E+00	3.43E+01	0.00E+00	1.76E+01	0.00E+00
PD-109	0.00E+00	1.33E+00	3.02E-01	0.00E+00	7.69E+00	0.00E+00	1.34E+02	0.00E+00
AG-110m	8.59E-01	8.13E-01	4.94E-01	0.00E+00	1.55E+00	0.00E+00	2.28E+02	0.00E+00
AG-111	3.17E-01	1.32E-01	6.62E-02	0.00E+00	4.29E-01	0.00E+00	1.84E+02	0.00E+00
CD-113m	0.00E+00	1.65E+03	5.30E+01	0.00E+00	1.82E+03	0.00E+00	9.90E+03	0.00E+00
CD-115m	0.00E+00	9.35E+02	3.02E+01	0.00E+00	7.48E+02	0.00E+00	2.96E+04	0.00E+00
SN-123	2.42E+05	3.97E+03	5.89E+03	3.18E+03	0.00E+00	0.00E+00	3.66E+05	0.00E+00
SN-125	6.07E+04	1.21E+03	2.74E+03	9.48E+02	0.00E+00	0.00E+00	5.71E+05	0.00E+00
SN-126	6.36E+05	1.18E+04	1.81E+04	3.12E+03	0.00E+00	0.00E+00	1.41E+05	0.00E+00
SB-124	6.99E+00	1.29E-01	2.73E+00	1.59E-02	0.00E+00	6.10E+00	1.41E+02	0.00E+00
SB-125	4.53E+00	4.95E-02	1.06E+00	4.33E-03	0.00E+00	3.98E+00	3.52E+01	0.00E+00
SB-126	2.75E+00	5.61E-02	9.86E-01	1.55E-02	0.00E+00	1.97E+00	1.63E+02	0.00E+00
SB-127	5.54E-01	1.18E-02	2.09E-01	6.22E-03	0.00E+00	3.77E-01	9.40E+01	0.00E+00
TE-125m	2.76E+03	9.96E+02	3.70E+02	7.72E+02	0.00E+00	0.00E+00	8.16E+03	0.00E+00
TE-127m	7.02E+03	2.49E+03	8.35E+02	1.67E+03	2.85E+04	0.00E+00	1.75E+04	0.00E+00
TE-127	1.95E+01	6.91E+00	4.19E+00	1.34E+01	7.89E+01	0.00E+00	1.50E+03	0.00E+00
TE-129m	1.17E+04	4.33E+03	1.85E+03	3.76E+03	4.88E+04	0.00E+00	4.38E+04	0.00E+00
TE-129	1.94E-05	7.21E-06	4.71E-06	1.38E-05	8.12E-05	0.00E+00	1.06E-04	0.00E+00
TE-133m	7.05E-07	4.00E-07	3.90E-07	5.59E-07	3.96E-06	0.00E+00	1.62E-06	0.00E+00

Table 4-22 (Page 3 of 4)

Teen Fish A_H

mrem*mL/hr* μ Ci

<u>Nuclide</u>	<u>Bone</u>	<u>Liver</u>	<u>T Body</u>	<u>Thyroid</u>	<u>Kidney</u>	<u>Lung</u>	<u>GI-LLI</u>	<u>Skin</u>
TE-134	1.39E-09	8.94E-10	9.34E-10	1.14E-09	8.53E-09	0.00E+00	5.17E-11	0.00E+00
I-129	1.28E+02	1.07E+02	1.79E+02	1.31E+05	1.92E+02	0.00E+00	1.25E+01	0.00E+00
I-130	7.35E+00	2.13E+01	8.49E+00	1.73E+03	3.27E+01	0.00E+00	1.63E+01	0.00E+00
I-131	1.47E+02	2.06E+02	1.11E+02	6.01E+04	3.54E+02	0.00E+00	4.07E+01	0.00E+00
TE-131m	1.02E+03	4.91E+02	4.10E+02	7.39E+02	5.12E+03	0.00E+00	3.94E+04	0.00E+00
TE-131	9.33E-17	3.85E-17	2.92E-17	7.19E-17	4.08E-16	0.00E+00	7.66E-18	0.00E+00
I-132	5.52E-03	1.44E-02	5.19E-03	4.87E-01	2.28E-02	0.00E+00	6.29E-03	0.00E+00
TE-132	2.06E+03	1.31E+03	1.23E+03	1.38E+03	1.25E+04	0.00E+00	4.13E+04	0.00E+00
I-133	2.47E+01	4.20E+01	1.28E+01	5.86E+03	7.36E+01	0.00E+00	3.18E+01	0.00E+00
CS-134m	3.47E-01	7.18E-01	3.69E-01	0.00E+00	4.00E-01	7.01E-02	4.77E-01	0.00E+00
CS-134	3.05E+05	7.19E+05	3.34E+05	0.00E+00	2.28E+05	8.72E+04	8.94E+03	0.00E+00
I-134	2.30E-08	6.09E-08	2.19E-08	1.01E-06	9.59E-08	0.00E+00	8.02E-10	0.00E+00
I-135	1.35E+00	3.47E+00	1.29E+00	2.23E+02	5.48E+00	0.00E+00	3.85E+00	0.00E+00
CS-135	1.02E+05	9.32E+04	2.18E+04	0.00E+00	3.55E+04	1.29E+04	1.63E+03	0.00E+00
CS-136	2.98E+04	1.17E+05	7.87E+04	0.00E+00	6.38E+04	1.01E+04	9.43E+03	0.00E+00
CS-137	4.09E+05	5.44E+05	1.90E+05	0.00E+00	1.85E+05	7.20E+04	7.74E+03	0.00E+00
CS-138	9.78E-12	1.88E-11	9.39E-12	0.00E+00	1.39E-11	1.61E-12	8.52E-15	0.00E+00
CS-139	1.36E-44	2.01E-44	7.37E-45	0.00E+00	1.62E-44	1.78E-45	9.33E-60	0.00E+00
BA-139	6.17E-06	4.34E-09	1.80E-07	0.00E+00	4.09E-09	2.99E-09	5.50E-05	0.00E+00
BA-140	1.97E+02	2.41E-01	1.27E+01	0.00E+00	8.17E-02	1.62E-01	3.03E+02	0.00E+00
LA-140	1.05E-01	5.16E-02	1.37E-02	0.00E+00	0.00E+00	0.00E+00	2.97E+03	0.00E+00
BA-141	9.20E-25	6.87E-28	3.07E-26	0.00E+00	6.38E-28	4.70E-28	1.96E-30	0.00E+00
LA-141	3.05E-04	9.38E-05	1.55E-05	0.00E+00	0.00E+00	0.00E+00	1.66E+01	0.00E+00
CE-141	2.38E-02	1.59E-02	1.82E-03	0.00E+00	7.47E-03	0.00E+00	4.54E+01	0.00E+00
BA-142	6.71E-42	6.71E-45	4.13E-43	0.00E+00	5.68E-45	4.47E-45	2.06E-53	0.00E+00
LA-142	2.34E-07	1.04E-07	2.58E-08	0.00E+00	0.00E+00	0.00E+00	3.16E-03	0.00E+00
CE-143	2.59E-03	1.89E+00	2.11E-04	0.00E+00	8.46E-04	0.00E+00	5.67E+01	0.00E+00
PR-143	5.68E-01	2.27E-01	2.83E-02	0.00E+00	1.32E-01	0.00E+00	1.87E+03	0.00E+00
CE-144	1.27E+00	5.25E-01	6.81E-02	0.00E+00	3.13E-01	0.00E+00	3.19E+02	0.00E+00
PR-144	1.61E-28	6.60E-29	8.17E-30	0.00E+00	3.78E-29	0.00E+00	1.78E-31	0.00E+00
ND-147	4.02E-01	4.37E-01	2.62E-02	0.00E+00	2.57E-01	0.00E+00	1.58E+03	0.00E+00
PM-147	4.79E+00	4.54E-01	1.85E-01	0.00E+00	8.67E-01	0.00E+00	4.32E+02	0.00E+00
PM-148m	1.86E+00	4.71E-01	3.69E-01	0.00E+00	7.14E-01	0.00E+00	2.97E+03	0.00E+00
PM-148	4.09E-01	6.66E-02	3.36E-02	0.00E+00	1.20E-01	0.00E+00	3.97E+03	0.00E+00
PM-149	7.24E-02	1.02E-02	4.17E-03	0.00E+00	1.94E-02	0.00E+00	1.50E+03	0.00E+00
PM-151	2.51E-02	4.14E-03	2.10E-03	0.00E+00	7.45E-03	0.00E+00	9.30E+02	0.00E+00
SM-151	3.99E+00	7.67E-01	1.80E-01	0.00E+00	8.40E-01	0.00E+00	2.60E+02	0.00E+00

Table 4-22 (Page 4 of 4)

Teen Fish A_t mrem*mL/hr* μ Ci

<u>Nuclide</u>	<u>Bone</u>	<u>Liver</u>	<u>T Body</u>	<u>Thyroid</u>	<u>Kidney</u>	<u>Lung</u>	<u>GI-LLI</u>	<u>Skin</u>
SM-153	3.90E-02	3.23E-02	2.38E-03	0.00E+00	1.06E-02	0.00E+00	9.11E+02	0.00E+00
EU-152	1.12E+01	2.69E+00	2.37E+00	0.00E+00	1.25E+01	0.00E+00	9.91E+02	0.00E+00
EU-154	3.61E+01	4.66E+00	3.28E+00	0.00E+00	2.08E+01	0.00E+00	2.46E+03	0.00E+00
EU-155	7.94E+00	7.67E-01	4.75E-01	0.00E+00	3.00E+00	0.00E+00	4.40E+03	0.00E+00
EU-156	8.38E-01	6.28E-01	1.03E-01	0.00E+00	4.23E-01	0.00E+00	3.21E+03	0.00E+00
TB-160	2.93E+00	0.00E+00	3.65E-01	0.00E+00	1.16E+00	0.00E+00	1.89E+03	0.00E+00
HO-166m	1.63E+01	5.02E+00	3.63E+00	0.00E+00	7.35E+00	0.00E+00	4.57E-17	0.00E+00
W-181	3.09E+01	9.98E+00	1.04E+00	0.00E+00	0.00E+00	0.00E+00	8.50E+02	0.00E+00
W-185	1.26E+03	4.15E+02	4.39E+01	0.00E+00	0.00E+00	0.00E+00	3.58E+04	0.00E+00
W-187	1.59E+02	1.30E+02	4.55E+01	0.00E+00	0.00E+00	0.00E+00	3.51E+04	0.00E+00
NP-239	2.39E-02	2.26E-03	1.25E-03	0.00E+00	7.09E-03	0.00E+00	3.63E+02	0.00E+00
U-232	2.15E+04	0.00E+00	1.54E+03	0.00E+00	2.33E+03	0.00E+00	2.63E+02	0.00E+00
U-233	4.53E+03	0.00E+00	2.75E+02	0.00E+00	1.06E+03	0.00E+00	2.43E+02	0.00E+00
U-234	4.35E+03	0.00E+00	2.70E+02	0.00E+00	1.04E+03	0.00E+00	2.38E+02	0.00E+00
U-235	4.16E+03	0.00E+00	2.54E+02	0.00E+00	9.75E+02	0.00E+00	3.02E+02	0.00E+00
U-236	4.16E+03	0.00E+00	2.59E+02	0.00E+00	9.97E+02	0.00E+00	2.23E+02	0.00E+00
U-237	2.60E-01	0.00E+00	6.92E-02	0.00E+00	1.07E+00	0.00E+00	6.89E+01	0.00E+00
U-238	3.98E+03	0.00E+00	2.37E+02	0.00E+00	9.13E+02	0.00E+00	2.13E+02	0.00E+00
NP-237	2.43E+04	1.74E+03	1.07E+03	0.00E+00	7.91E+03	0.00E+00	1.54E+03	0.00E+00
NP-238	2.57E-01	6.87E-03	4.00E-03	0.00E+00	2.36E-02	0.00E+00	5.04E+02	0.00E+00
PU-238	4.28E+03	5.48E+02	1.16E+02	0.00E+00	4.99E+02	0.00E+00	4.94E+02	0.00E+00
PU-239	4.89E+03	5.94E+02	1.28E+02	0.00E+00	5.48E+02	0.00E+00	4.51E+02	0.00E+00
PU-240	4.88E+03	5.93E+02	1.28E+02	0.00E+00	5.47E+02	0.00E+00	4.60E+02	0.00E+00
PU-241	1.12E+02	5.37E+00	2.36E+00	0.00E+00	1.09E+01	0.00E+00	9.46E+00	0.00E+00
PU-242	4.53E+03	5.72E+02	1.24E+02	0.00E+00	5.27E+02	0.00E+00	4.42E+02	0.00E+00
PU-244	5.29E+03	6.52E+02	1.42E+02	0.00E+00	6.04E+02	0.00E+00	6.58E+02	0.00E+00
AM-241	3.64E+04	3.44E+04	2.63E+03	0.00E+00	1.97E+04	0.00E+00	3.59E+03	0.00E+00
AM-242m	3.68E+04	3.25E+04	2.65E+03	0.00E+00	1.96E+04	0.00E+00	4.52E+03	0.00E+00
AM-243	3.63E+04	3.36E+04	2.57E+03	0.00E+00	1.93E+04	0.00E+00	4.21E+03	0.00E+00
CM-242	1.34E+03	1.41E+03	8.87E+01	0.00E+00	4.04E+02	0.00E+00	3.82E+03	0.00E+00
CM-243	2.97E+04	2.75E+04	1.87E+03	0.00E+00	8.72E+03	0.00E+00	3.78E+03	0.00E+00
CM-244	2.30E+04	2.18E+04	1.46E+03	0.00E+00	6.80E+03	0.00E+00	3.65E+03	0.00E+00
CM-245	4.52E+04	3.98E+04	2.79E+03	0.00E+00	1.30E+04	0.00E+00	3.41E+03	0.00E+00
CM-246	4.48E+04	3.97E+04	2.78E+03	0.00E+00	1.30E+04	0.00E+00	3.35E+03	0.00E+00
CM-247	4.37E+04	3.91E+04	2.74E+03	0.00E+00	1.28E+04	0.00E+00	4.40E+03	0.00E+00
CM-248	3.63E+05	3.22E+05	2.26E+04	0.00E+00	1.05E+05	0.00E+00	7.08E+04	0.00E+00
CF-252	1.58E+04	0.00E+00	3.82E+02	0.00E+00	0.00E+00	0.00E+00	1.39E+04	0.00E+00