

**NRC RA18-026**

**2017 Annual Radioactive Effluent Release Report**

**Part 7b**

Table 4-26 (Page 1 of 4)

Teen Inhalation P<sub>i</sub>mrem\*m<sup>3</sup>/yr\*μCi

<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	1.27E+03	1.27E+03	1.27E+03	1.27E+03	1.27E+03	1.27E+03	0.00E+00
C-14	2.60E+04	4.87E+03	4.87E+03	4.87E+03	4.87E+03	4.87E+03	4.87E+03	0.00E+00
NA-22	1.41E+05	1.41E+05	1.41E+05	1.41E+05	1.41E+05	1.41E+05	1.41E+05	0.00E+00
NA-24	1.38E+04	1.38E+04	1.38E+04	1.38E+04	1.38E+04	1.38E+04	1.38E+04	0.00E+00
P-32	1.89E+06	1.10E+05	7.16E+04	0.00E+00	0.00E+00	0.00E+00	9.28E+04	0.00E+00
CA-41	3.24E+05	0.00E+00	3.50E+04	0.00E+00	1.08E+06	8.08E+08	2.38E+05	0.00E+00
SC-46	5.79E+05	1.13E+06	3.34E+05	7.50E+01	3.07E+01	2.10E+04	3.00E+03	0.00E+00
CR-51	0.00E+00	0.00E+00	1.35E+02	7.50E+01	3.07E+01	2.10E+04	3.00E+03	0.00E+00
MN-54	0.00E+00	5.11E+04	8.40E+03	0.00E+00	1.27E+04	1.98E+06	6.68E+04	0.00E+00
FE-55	3.34E+04	2.38E+04	5.54E+03	0.00E+00	0.00E+00	1.24E+05	6.39E+03	0.00E+00
MN-56	0.00E+00	1.70E+00	2.52E-01	0.00E+00	1.79E+00	1.52E+04	5.74E+04	0.00E+00
CO-57	0.00E+00	9.44E+02	9.20E+02	0.00E+00	0.00E+00	5.86E+05	3.14E+04	0.00E+00
CO-58	0.00E+00	2.07E+03	2.78E+03	0.00E+00	0.00E+00	1.34E+06	9.52E+04	0.00E+00
FE-59	1.59E+04	3.70E+04	1.43E+04	0.00E+00	0.00E+00	1.53E+06	1.78E+05	0.00E+00
CO-60	0.00E+00	1.51E+04	1.98E+04	0.00E+00	0.00E+00	8.72E+06	2.59E+05	0.00E+00
NI-59	4.35E+04	1.62E+04	7.39E+03	0.00E+00	0.00E+00	1.13E+05	5.18E+03	0.00E+00
NI-63	5.80E+05	4.34E+04	1.98E+04	0.00E+00	0.00E+00	3.07E+05	1.42E+04	0.00E+00
CU-64	0.00E+00	2.03E+00	8.48E-01	0.00E+00	6.41E+00	1.11E+04	6.14E+04	0.00E+00
NI-65	2.18E+00	2.93E-01	1.27E-01	0.00E+00	0.00E+00	9.36E+03	3.67E+04	0.00E+00
ZN-65	3.86E+04	1.34E+05	6.24E+04	0.00E+00	8.64E+04	1.24E+06	4.66E+04	0.00E+00
ZN-69m	1.15E+01	2.47E+01	2.49E+00	0.00E+00	1.65E+01	3.14E+04	1.71E+05	0.00E+00
ZN-69	4.83E-02	9.20E-02	6.46E-03	0.00E+00	6.02E-02	1.58E+03	2.85E+02	0.00E+00
SE-79	0.00E+00	4.34E+03	6.97E+02	0.00E+00	6.50E+03	6.17E+05	2.82E+04	0.00E+00
BR-82	0.00E+00	0.00E+00	1.82E+04	0.00E+00	0.00E+00	0.00E+00	8.00E-15	0.00E+00
BR-83	0.00E+00	0.00E+00	3.44E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
BR-84	0.00E+00	0.00E+00	4.33E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
BR-85	0.00E+00	0.00E+00	1.83E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
RB-86	0.00E+00	1.90E+05	8.40E+04	0.00E+00	0.00E+00	0.00E+00	1.77E+04	0.00E+00
RB-87	0.00E+00	1.12E+05	3.66E+04	0.00E+00	0.00E+00	0.00E+00	2.44E+03	0.00E+00
RB-88	0.00E+00	5.46E+02	2.72E+02	0.00E+00	0.00E+00	0.00E+00	2.92E-05	0.00E+00
RB-89	0.00E+00	3.52E+02	2.33E+02	0.00E+00	0.00E+00	0.00E+00	3.38E-07	0.00E+00
SR-89	4.34E+05	0.00E+00	1.25E+04	0.00E+00	0.00E+00	2.42E+06	3.71E+05	0.00E+00
SR-90	1.08E+08	0.00E+00	6.68E+06	0.00E+00	0.00E+00	1.65E+07	7.65E+05	0.00E+00
Y-90	2.98E+03	0.00E+00	8.00E+01	0.00E+00	0.00E+00	2.93E+05	5.59E+05	0.00E+00
SR-91	8.80E+01	0.00E+00	3.51E+00	0.00E+00	0.00E+00	6.07E+04	2.59E+05	0.00E+00
Y-91m	3.70E-01	0.00E+00	1.42E-02	0.00E+00	0.00E+00	3.20E+03	3.02E+01	0.00E+00
Y-91	6.61E+05	0.00E+00	1.77E+04	0.00E+00	0.00E+00	2.94E+06	4.09E+05	0.00E+00

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Teen Inhalation P<sub>i</sub>mrem\*m<sup>3</sup>/yr\*μCi

<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	9.52E+00	0.00E+00	4.06E-01	0.00E+00	0.00E+00	2.74E+04	1.19E+05	0.00E+00
Y-92	1.47E+01	0.00E+00	4.29E-01	0.00E+00	0.00E+00	2.68E+04	1.65E+05	0.00E+00
Y-93	1.35E+02	0.00E+00	3.72E+00	0.00E+00	0.00E+00	8.32E+04	5.79E+05	0.00E+00
NB-93m	3.31E+05	1.09E+05	2.73E+04	0.00E+00	1.27E+05	4.29E+05	2.02E+04	0.00E+00
NB-95	1.86E+04	1.03E+04	5.66E+03	0.00E+00	1.00E+04	7.51E+05	9.68E+04	0.00E+00
NB-97	3.14E-01	7.78E-02	2.84E-02	0.00E+00	9.12E-02	3.93E+03	2.17E+03	0.00E+00
ZR-93	5.46E+05	2.70E+05	1.47E+05	0.00E+00	9.28E+05	2.94E+06	1.28E+05	0.00E+00
ZR-95	1.46E+05	4.58E+04	3.15E+04	0.00E+00	6.74E+04	2.69E+06	1.49E+05	0.00E+00
ZR-97	1.38E+02	2.72E+01	1.26E+01	0.00E+00	4.12E+01	1.30E+05	6.30E+05	0.00E+00
MO-93	0.00E+00	1.33E+04	3.62E+02	0.00E+00	4.05E+03	7.05E+05	3.19E+04	0.00E+00
MO-99	0.00E+00	1.69E+02	3.22E+01	0.00E+00	4.11E+02	1.54E+05	2.69E+05	0.00E+00
TC-99	3.58E+02	5.26E+02	1.43E+02	0.00E+00	6.68E+03	1.39E+06	6.39E+04	0.00E+00
TC-99m	1.38E-03	3.86E-03	4.99E-02	0.00E+00	5.76E-02	1.15E+03	6.13E+03	0.00E+00
TC-101	5.92E-05	8.40E-05	8.24E-04	0.00E+00	1.52E-03	6.67E+02	8.72E-07	0.00E+00
RU-103	2.10E+03	0.00E+00	8.96E+02	0.00E+00	7.43E+03	7.83E+05	1.09E+05	0.00E+00
RU-105	1.12E+00	0.00E+00	4.34E-01	0.00E+00	1.41E+00	1.82E+04	9.04E+04	0.00E+00
RU-106	9.84E+04	0.00E+00	1.24E+04	0.00E+00	1.90E+05	1.61E+07	9.60E+05	0.00E+00
RH-105	1.06E+01	7.58E+00	4.99E+00	0.00E+00	3.23E+01	3.27E+04	9.84E+04	0.00E+00
PD-107	0.00E+00	9.36E+02	6.71E+01	0.00E+00	7.51E+03	1.30E+05	5.99E+03	0.00E+00
PD-109	0.00E+00	5.25E+00	1.33E+00	0.00E+00	2.69E+01	2.55E+04	1.57E+05	0.00E+00
AG-110m	1.38E+04	1.31E+04	7.99E+03	0.00E+00	2.50E+04	6.75E+06	2.73E+05	0.00E+00
AG-111	4.86E+02	2.02E+02	1.02E+02	0.00E+00	6.54E+02	3.20E+05	2.40E+05	0.00E+00
CD-113m	0.00E+00	1.74E+06	5.68E+04	0.00E+00	1.94E+06	2.87E+06	1.34E+05	0.00E+00
CD-115m	0.00E+00	2.78E+05	9.12E+03	0.00E+00	2.26E+05	2.42E+06	4.08E+05	0.00E+00
SN-123	3.45E+05	7.55E+03	1.12E+04	6.04E+03	0.00E+00	3.97E+05	3.33E+05	0.00E+00
SN-125	1.33E+04	3.54E+02	7.99E+02	2.76E+02	0.00E+00	1.01E+06	5.83E+05	0.00E+00
SN-126	1.74E+06	4.31E+04	6.59E+04	1.14E+04	0.00E+00	1.38E+07	1.34E+05	0.00E+00
SB-124	4.30E+04	7.94E+02	1.68E+04	9.76E+01	0.00E+00	3.85E+06	3.98E+05	0.00E+00
SB-125	7.38E+04	8.08E+02	1.72E+04	7.04E+01	0.00E+00	2.74E+06	9.92E+04	0.00E+00
SB-126	4.95E+03	1.02E+02	1.78E+03	2.80E+01	0.00E+00	1.24E+06	4.81E+05	0.00E+00
SB-127	3.71E+02	7.94E+00	1.40E+02	4.17E+00	0.00E+00	2.65E+05	3.15E+05	0.00E+00
TE-125m	4.88E+03	2.24E+03	6.67E+02	1.40E+03	0.00E+00	5.36E+05	7.50E+04	0.00E+00
TE-127m	1.80E+04	8.16E+03	2.18E+03	4.38E+03	6.54E+04	1.66E+06	1.59E+05	0.00E+00
TE-127	2.01E+00	9.12E-01	4.42E-01	1.42E+00	7.28E+00	1.12E+04	8.08E+04	0.00E+00
TE-129m	1.39E+04	6.58E+03	2.25E+03	4.58E+03	5.19E+04	1.98E+06	4.05E+05	0.00E+00
TE-129	7.10E-02	3.38E-02	1.76E-02	5.18E-02	2.66E-01	3.30E+03	1.62E+03	0.00E+00
TE-133m	8.08E-02	5.86E-02	4.57E-02	6.54E-02	2.46E-01	6.97E+03	9.84E+02	0.00E+00

Table 4-26 (Page 3 of 4)

Teen Inhalation P<sub>i</sub>mrem\*m<sup>3</sup>/yr\*μCi

<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	4.25E-02	3.48E-02	2.91E-02	3.57E-02	2.33E-01	5.38E+03	1.10E+01	0.00E+00
I-129	2.82E+04	2.35E+04	7.12E+04	2.93E+07	4.21E+04	0.00E+00	1.83E+03	0.00E+00
I-130	6.24E+03	1.79E+04	7.17E+03	1.49E+06	2.75E+04	0.00E+00	9.12E+03	0.00E+00
I-131	3.54E+04	4.91E+04	2.64E+04	1.46E+07	8.40E+04	0.00E+00	6.49E+03	0.00E+00
TE-131m	9.84E+01	6.01E+01	4.02E+01	7.25E+01	4.39E+02	2.38E+05	6.21E+05	0.00E+00
TE-131	1.58E-02	8.32E-03	5.04E-03	1.24E-02	6.18E-02	2.34E+03	1.51E+01	0.00E+00
I-132	1.59E+03	4.38E+03	1.58E+03	1.51E+05	6.92E+03	0.00E+00	1.27E+03	0.00E+00
TE-132	3.60E+02	2.90E+02	2.19E+02	2.46E+02	1.95E+03	4.49E+05	4.63E+05	0.00E+00
I-133	1.22E+04	2.05E+04	6.22E+03	2.92E+06	3.59E+04	0.00E+00	1.03E+04	0.00E+00
CS-134m	1.76E+02	3.48E+02	1.88E+02	0.00E+00	2.03E+02	3.65E+01	1.62E+02	0.00E+00
CS-134	5.02E+05	1.13E+06	5.49E+05	0.00E+00	3.75E+05	1.46E+05	9.76E+03	0.00E+00
I-134	8.88E+02	2.32E+03	8.40E+02	3.95E+04	3.66E+03	0.00E+00	2.04E+01	0.00E+00
I-135	3.70E+03	9.44E+03	3.49E+03	6.21E+05	1.49E+04	0.00E+00	6.95E+03	0.00E+00
CS-135	1.66E+05	1.46E+05	3.58E+04	0.00E+00	5.84E+04	2.16E+04	1.78E+03	0.00E+00
CS-136	5.15E+04	1.94E+05	1.37E+05	0.00E+00	1.10E+05	1.78E+04	1.09E+04	0.00E+00
CS-137	6.70E+05	8.48E+05	3.11E+05	0.00E+00	3.04E+05	1.21E+05	8.48E+03	0.00E+00
CS-138	4.66E+02	8.56E+02	4.46E+02	0.00E+00	6.62E+02	7.87E+01	2.70E-01	0.00E+00
CS-139	2.92E+02	4.10E+02	1.58E+02	0.00E+00	3.47E+02	3.89E+01	1.33E-13	0.00E+00
BA-139	1.34E+00	9.44E-04	3.90E-02	0.00E+00	8.88E-04	6.46E+03	6.45E+03	0.00E+00
BA-140	5.47E+04	6.70E+01	3.52E+03	0.00E+00	2.28E+01	2.03E+06	2.29E+05	0.00E+00
LA-140	4.79E+02	2.36E+02	6.26E+01	0.00E+00	0.00E+00	2.14E+05	4.87E+05	0.00E+00
BA-141	1.42E-01	1.06E-04	4.74E-03	0.00E+00	9.84E-05	3.29E+03	7.46E-04	0.00E+00
LA-141	6.10E+00	1.88E+00	3.10E-01	0.00E+00	0.00E+00	1.85E+04	1.23E+05	0.00E+00
CE-141	2.84E+04	1.90E+04	2.17E+03	0.00E+00	8.88E+03	6.14E+05	1.26E+05	0.00E+00
BA-142	3.70E-02	3.70E-05	2.27E-03	0.00E+00	3.14E-05	1.91E+03	4.79E-10	0.00E+00
LA-142	9.60E-01	4.25E-01	1.06E-01	0.00E+00	0.00E+00	1.02E+04	1.20E+04	0.00E+00
CE-143	2.66E+02	1.94E+02	2.16E+01	0.00E+00	8.64E+01	1.30E+05	2.55E+05	0.00E+00
PR-143	1.34E+04	5.31E+03	6.62E+02	0.00E+00	3.09E+03	4.83E+05	2.14E+05	0.00E+00
CE-144	4.89E+06	2.02E+06	2.62E+05	0.00E+00	1.21E+06	1.34E+07	8.64E+05	0.00E+00
PR-144	4.30E-02	1.76E-02	2.18E-03	0.00E+00	1.01E-02	1.75E+03	2.35E-04	0.00E+00
ND-147	7.86E+03	8.56E+03	5.13E+02	0.00E+00	5.02E+03	3.72E+05	1.82E+05	0.00E+00
PM-147	9.20E+05	8.80E+04	3.60E+04	0.00E+00	1.68E+05	9.12E+05	4.70E+04	0.00E+00
PM-148m	1.06E+05	2.68E+04	2.10E+04	0.00E+00	4.06E+04	2.56E+06	3.28E+05	0.00E+00
PM-148	4.35E+03	7.10E+02	3.58E+02	0.00E+00	1.28E+03	5.22E+05	4.91E+05	0.00E+00
PM-149	3.93E+02	5.51E+01	2.27E+01	0.00E+00	1.05E+02	9.92E+04	2.23E+05	0.00E+00
PM-151	9.60E+01	1.59E+01	8.08E+00	0.00E+00	2.86E+01	4.52E+04	1.82E+05	0.00E+00
SM-151	8.56E+05	1.68E+05	3.89E+04	0.00E+00	1.82E+05	6.14E+05	2.82E+04	0.00E+00

Table 4-26 (Page 4 of 4)

Teen Inhalation P<sub>i</sub>mrem\*m<sup>3</sup>/yr\*μCi

<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	1.94E+02	1.61E+02	1.18E+01	0.00E+00	5.25E+01	5.69E+04	1.42E+05	0.00E+00
EU-152	2.37E+06	5.75E+05	5.04E+05	0.00E+00	2.67E+06	4.01E+06	1.08E+05	0.00E+00
EU-154	7.54E+06	9.84E+05	6.88E+05	0.00E+00	4.35E+06	7.30E+06	2.67E+05	0.00E+00
EU-155	1.60E+06	1.57E+05	9.68E+04	0.00E+00	6.12E+05	1.21E+07	4.78E+05	0.00E+00
EU-156	2.16E+04	1.62E+04	2.64E+03	0.00E+00	1.09E+04	1.10E+06	3.65E+05	0.00E+00
TB-160	2.43E+05	0.00E+00	3.03E+04	0.00E+00	9.60E+04	3.18E+06	2.08E+05	0.00E+00
HO-166m	3.52E+06	1.25E+06	7.90E+05	0.00E+00	1.60E+06	4.99E+06	1.34E+05	0.00E+00
W-181	7.12E+01	2.30E+01	2.41E+00	0.00E+00	0.00E+00	2.36E+04	2.15E+03	0.00E+00
W-185	2.22E+03	7.34E+02	7.78E+01	0.00E+00	0.00E+00	7.68E+05	9.12E+04	0.00E+00
W-187	1.20E+01	9.76E+00	3.43E+00	0.00E+00	0.00E+00	4.74E+04	1.77E+05	0.00E+00
NP-239	3.38E+02	3.19E+01	1.77E+01	0.00E+00	1.00E+02	6.49E+04	1.32E+05	0.00E+00
U-232	5.85E+08	0.00E+00	4.18E+07	0.00E+00	6.35E+07	3.07E+09	3.57E+05	0.00E+00
U-233	1.24E+08	0.00E+00	7.54E+06	0.00E+00	2.90E+07	7.34E+08	3.30E+05	0.00E+00
U-234	1.18E+08	0.00E+00	7.38E+06	0.00E+00	2.84E+07	7.19E+08	3.23E+05	0.00E+00
U-235	1.14E+08	0.00E+00	6.94E+06	0.00E+00	2.67E+07	6.75E+08	4.10E+05	0.00E+00
U-236	1.14E+08	0.00E+00	7.09E+06	0.00E+00	2.73E+07	6.90E+08	3.03E+05	0.00E+00
U-237	4.20E+02	0.00E+00	1.12E+02	0.00E+00	1.73E+03	1.41E+05	1.03E+05	0.00E+00
U-238	1.09E+08	0.00E+00	6.48E+06	0.00E+00	2.50E+07	6.31E+08	2.90E+05	0.00E+00
NP-237	1.31E+10	8.48E+09	5.77E+08	0.00E+00	4.28E+09	7.19E+08	4.18E+05	0.00E+00
NP-238	3.38E+03	8.16E+02	5.27E+01	0.00E+00	3.10E+02	1.40E+05	1.90E+05	0.00E+00
PU-238	1.20E+10	8.24E+09	5.78E+08	0.00E+00	2.48E+09	2.50E+09	3.83E+05	0.00E+00
PU-239	1.38E+10	8.96E+09	6.44E+08	0.00E+00	2.75E+09	2.34E+09	3.50E+05	0.00E+00
PU-240	1.38E+10	8.96E+09	6.43E+08	0.00E+00	2.74E+09	2.34E+09	3.57E+05	0.00E+00
PU-241	2.99E+08	7.65E+07	1.12E+07	0.00E+00	5.18E+07	2.08E+06	7.34E+03	0.00E+00
PU-242	1.28E+10	8.64E+09	6.20E+08	0.00E+00	2.65E+09	2.26E+09	3.43E+05	0.00E+00
PU-244	1.50E+10	9.92E+09	7.10E+08	0.00E+00	3.03E+09	2.58E+09	5.11E+05	0.00E+00
AM-241	1.42E+10	9.60E+09	5.68E+08	0.00E+00	4.26E+09	8.40E+08	3.90E+05	0.00E+00
AM-242m	1.43E+10	9.04E+09	5.72E+08	0.00E+00	4.24E+09	3.37E+08	4.91E+05	0.00E+00
AM-243	1.42E+10	9.36E+09	5.56E+08	0.00E+00	4.17E+09	7.93E+08	4.58E+05	0.00E+00
CM-242	2.54E+08	2.01E+08	1.13E+07	0.00E+00	5.12E+07	5.41E+08	4.17E+05	0.00E+00
CM-243	9.52E+09	6.64E+09	4.00E+08	0.00E+00	1.87E+09	8.72E+08	4.10E+05	0.00E+00
CM-244	7.35E+09	5.22E+09	3.10E+08	0.00E+00	1.45E+09	8.40E+08	3.97E+05	0.00E+00
CM-245	1.46E+10	9.76E+09	6.02E+08	0.00E+00	2.82E+09	8.08E+08	3.70E+05	0.00E+00
CM-246	1.45E+10	9.76E+09	6.02E+08	0.00E+00	2.81E+09	8.24E+08	3.63E+05	0.00E+00
CM-247	1.42E+10	9.52E+09	5.93E+08	0.00E+00	2.77E+09	8.08E+08	4.78E+05	0.00E+00
CM-248	1.18E+11	7.86E+10	4.89E+09	0.00E+00	2.28E+10	6.66E+09	7.70E+06	0.00E+00
CF-252	5.73E+09	0.00E+00	2.46E+08	0.00E+00	0.00E+00	2.74E+09	1.51E+06	0.00E+00

Table 4-27 (Page 1 of 4)

Adult Inhalation  $P_i$  $\text{mrem}\cdot\text{m}^3/\text{yr}\cdot\mu\text{Ci}$ 

<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	1.26E+03	1.26E+03	1.26E+03	1.26E+03	1.26E+03	1.26E+03	0.00E+00
C-14	1.82E+04	3.41E+03	3.41E+03	3.41E+03	3.41E+03	3.41E+03	3.41E+03	0.00E+00
NA-22	1.04E+05	1.04E+05	1.04E+05	1.04E+05	1.04E+05	1.04E+05	1.04E+05	0.00E+00
NA-24	1.02E+04	1.02E+04	1.02E+04	1.02E+04	1.02E+04	1.02E+04	1.02E+04	0.00E+00
P-32	1.32E+06	7.71E+04	5.01E+04	0.00E+00	0.00E+00	0.00E+00	8.64E+04	0.00E+00
CA-41	3.06E+05	0.00E+00	3.30E+04	0.00E+00	0.00E+00	3.06E+04	2.29E+03	0.00E+00
SC-46	4.41E+05	8.56E+05	2.49E+05	0.00E+00	7.99E+05	0.00E+00	2.58E+05	0.00E+00
CR-51	0.00E+00	0.00E+00	1.00E+02	5.95E+01	2.28E+01	1.44E+04	3.32E+03	0.00E+00
MN-54	0.00E+00	3.96E+04	6.30E+03	0.00E+00	9.84E+03	1.40E+06	7.74E+04	0.00E+00
FE-55	2.46E+04	1.70E+04	3.94E+03	0.00E+00	0.00E+00	7.21E+04	6.03E+03	0.00E+00
MN-56	0.00E+00	1.24E+00	1.83E-01	0.00E+00	1.30E+00	9.44E+03	2.02E+04	0.00E+00
CO-57	0.00E+00	6.92E+02	6.71E+02	0.00E+00	0.00E+00	3.70E+05	3.14E+04	0.00E+00
CO-58	0.00E+00	1.58E+03	2.07E+03	0.00E+00	0.00E+00	9.28E+05	1.06E+05	0.00E+00
FE-59	1.18E+04	2.78E+04	1.06E+04	0.00E+00	0.00E+00	1.02E+06	1.88E+05	0.00E+00
CO-60	0.00E+00	1.15E+04	1.48E+04	0.00E+00	0.00E+00	5.97E+06	2.85E+05	0.00E+00
NI-59	3.25E+04	1.17E+04	5.42E+03	0.00E+00	0.00E+00	6.56E+04	4.89E+03	0.00E+00
NI-63	4.32E+05	3.14E+04	1.45E+04	0.00E+00	0.00E+00	1.78E+05	1.34E+04	0.00E+00
CU-64	0.00E+00	1.46E+00	6.15E-01	0.00E+00	4.62E+00	6.78E+03	4.90E+04	0.00E+00
NI-65	1.54E+00	2.10E-01	9.12E-02	0.00E+00	0.00E+00	5.60E+03	1.23E+04	0.00E+00
ZN-65	3.24E+04	1.03E+05	4.66E+04	0.00E+00	6.90E+04	8.64E+05	5.34E+04	0.00E+00
ZN-69m	8.16E+00	1.96E+01	1.79E+00	0.00E+00	1.18E+01	1.90E+04	1.37E+05	0.00E+00
ZN-69	3.38E-02	6.51E-02	4.52E-03	0.00E+00	4.22E-02	9.20E+02	1.63E+01	0.00E+00
SE-79	0.00E+00	3.06E+03	4.87E+02	0.00E+00	4.55E+03	3.58E+05	2.66E+04	0.00E+00
BR-82	0.00E+00	0.00E+00	1.35E+04	0.00E+00	0.00E+00	0.00E+00	1.04E+04	0.00E+00
BR-83	0.00E+00	0.00E+00	2.41E+02	0.00E+00	0.00E+00	0.00E+00	2.32E+02	0.00E+00
BR-84	0.00E+00	0.00E+00	3.13E+02	0.00E+00	0.00E+00	0.00E+00	1.64E-03	0.00E+00
BR-85	0.00E+00	0.00E+00	1.28E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
RB-86	0.00E+00	1.35E+05	5.90E+04	0.00E+00	0.00E+00	0.00E+00	1.66E+04	0.00E+00
RB-87	0.00E+00	3.87E+02	2.57E+04	0.00E+00	0.00E+00	0.00E+00	2.30E+03	0.00E+00
RB-88	0.00E+00	3.87E+02	1.93E+02	0.00E+00	0.00E+00	0.00E+00	3.34E-09	0.00E+00
RB-89	0.00E+00	2.56E+02	1.70E+02	0.00E+00	0.00E+00	0.00E+00	9.28E-12	0.00E+00
SR-89	3.04E+05	0.00E+00	8.72E+03	0.00E+00	0.00E+00	1.40E+06	3.50E+05	0.00E+00
SR-90	9.92E+07	0.00E+00	6.10E+06	0.00E+00	0.00E+00	9.60E+06	7.22E+05	0.00E+00
Y-90	2.09E+03	0.00E+00	5.61E+01	0.00E+00	0.00E+00	1.70E+05	5.06E+05	0.00E+00
SR-91	6.19E+01	0.00E+00	2.50E+00	0.00E+00	0.00E+00	3.65E+04	1.91E+05	0.00E+00
Y-91m	2.61E-01	0.00E+00	1.02E-02	0.00E+00	0.00E+00	1.92E+03	1.33E+00	0.00E+00
Y-91	4.62E+05	0.00E+00	1.24E+04	0.00E+00	0.00E+00	1.70E+06	3.85E+05	0.00E+00

Table 4-27 (Page 2 of 4)

Adult Inhalation P<sub>i</sub>mrem\*m<sup>3</sup>/yr\*μCi

<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	6.74E+00	0.00E+00	2.91E-01	0.00E+00	0.00E+00	1.65E+04	4.30E+04	0.00E+00
Y-92	1.03E+01	0.00E+00	3.02E-01	0.00E+00	0.00E+00	1.57E+04	7.35E+04	0.00E+00
Y-93	9.44E+01	0.00E+00	2.61E+00	0.00E+00	0.00E+00	4.85E+04	4.22E+05	0.00E+00
NB-93m	2.48E+05	8.08E+04	1.99E+04	0.00E+00	9.28E+04	2.49E+05	1.90E+04	0.00E+00
NB-95	1.41E+04	7.82E+03	4.21E+03	0.00E+00	7.74E+03	5.05E+05	1.04E+05	0.00E+00
NB-97	2.22E-01	5.62E-02	2.05E-02	0.00E+00	6.54E-02	2.40E+03	2.42E+02	0.00E+00
ZR-93	4.18E+05	2.34E+04	1.10E+04	0.00E+00	8.88E+04	1.70E+05	1.21E+04	0.00E+00
ZR-95	1.07E+05	3.44E+04	2.33E+04	0.00E+00	5.42E+04	1.77E+06	1.50E+05	0.00E+00
ZR-97	9.68E+01	1.96E+01	9.04E+00	0.00E+00	2.97E+01	7.87E+04	5.23E+05	0.00E+00
MO-93	0.00E+00	9.36E+03	2.54E+02	0.00E+00	2.84E+03	4.09E+05	3.03E+04	0.00E+00
MO-99	0.00E+00	1.21E+02	2.30E+01	0.00E+00	2.91E+02	9.12E+04	2.48E+05	0.00E+00
TC-99	2.50E+02	3.71E+02	1.00E+02	0.00E+00	4.68E+03	8.08E+05	6.03E+04	0.00E+00
TC-99m	1.03E-03	2.91E-03	3.70E-02	0.00E+00	4.42E-02	7.64E+02	4.16E+03	0.00E+00
TC-101	4.18E-05	6.02E-05	5.90E-04	0.00E+00	1.08E-03	3.99E+02	1.09E-11	0.00E+00
RU-103	1.53E+03	0.00E+00	6.58E+02	0.00E+00	5.83E+03	5.05E+05	1.10E+05	0.00E+00
RU-105	7.90E-01	0.00E+00	3.11E-01	0.00E+00	1.02E+00	1.10E+04	4.82E+04	0.00E+00
RU-106	6.91E+04	0.00E+00	8.72E+03	0.00E+00	1.34E+05	9.36E+06	9.12E+05	0.00E+00
RH-105	7.39E+00	5.38E+00	3.54E+00	0.00E+00	2.29E+01	1.93E+04	8.72E+04	0.00E+00
PD-107	0.00E+00	6.62E+02	4.70E+01	0.00E+00	5.26E+03	7.58E+04	5.65E+03	0.00E+00
PD-109	0.00E+00	3.70E+00	9.28E-01	0.00E+00	1.88E+01	1.48E+04	1.22E+05	0.00E+00
AG-110m	1.08E+04	1.00E+04	5.94E+03	0.00E+00	1.97E+04	4.63E+06	3.02E+05	0.00E+00
AG-111	3.40E+02	1.42E+02	7.10E+01	0.00E+00	4.59E+02	1.86E+05	2.23E+05	0.00E+00
CD-113m	0.00E+00	1.23E+06	3.98E+04	0.00E+00	1.37E+06	1.66E+06	1.27E+05	0.00E+00
CD-115m	0.00E+00	1.97E+05	6.36E+03	0.00E+00	1.58E+05	1.41E+06	3.84E+05	0.00E+00
SN-123	2.42E+05	5.34E+03	7.86E+03	4.54E+03	0.00E+00	2.30E+06	3.14E+05	0.00E+00
SN-125	9.28E+03	2.50E+02	5.62E+02	2.07E+02	0.00E+00	5.90E+05	5.45E+05	0.00E+00
SN-126	1.26E+06	3.34E+04	4.80E+04	9.84E+03	0.00E+00	9.36E+06	1.27E+05	0.00E+00
SB-124	3.12E+04	5.89E+02	1.22E+04	7.55E+01	0.00E+00	2.48E+06	4.06E+05	0.00E+00
SB-125	5.34E+04	5.95E+02	1.26E+04	5.40E+01	0.00E+00	1.74E+06	1.01E+05	0.00E+00
SB-126	3.60E+03	7.30E+01	1.30E+03	2.20E+01	0.00E+00	7.66E+05	4.81E+05	0.00E+00
SB-127	2.64E+02	5.78E+00	1.02E+02	3.18E+00	0.00E+00	1.64E+05	3.02E+05	0.00E+00
TE-125m	3.42E+03	1.58E+03	4.67E+02	1.05E+03	1.24E+04	3.14E+05	7.06E+04	0.00E+00
TE-127m	1.26E+04	5.77E+03	1.57E+03	3.29E+03	4.58E+04	9.60E+05	1.50E+05	0.00E+00
TE-127	1.40E+00	6.42E-01	3.10E-01	1.06E+00	5.10E+00	6.51E+03	5.74E+04	0.00E+00
TE-129m	9.76E+03	4.67E+03	1.58E+03	3.44E+03	3.66E+04	1.16E+06	3.83E+05	0.00E+00
TE-129	4.98E-02	2.39E-02	1.24E-02	3.90E-02	1.87E-01	1.94E+03	1.57E+02	0.00E+00
TE-133m	5.79E-02	4.32E-02	3.34E-02	5.02E-02	2.99E-01	4.41E+03	4.39E+02	0.00E+00

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Adult Inhalation P<sub>i</sub>mrem\*m<sup>3</sup>/yr\*μCi

<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	3.07E-02	2.58E-02	1.26E-02	2.75E-02	1.74E-01	3.47E+03	2.38E-01	0.00E+00
I-129	1.98E+04	1.69E+04	5.53E+04	4.43E+07	3.62E+04	0.00E+00	1.78E+03	0.00E+00
I-130	4.58E+03	1.34E+04	5.28E+03	1.14E+06	2.09E+04	0.00E+00	7.69E+03	0.00E+00
I-131	2.52E+04	3.58E+04	2.05E+04	1.19E+07	6.13E+04	0.00E+00	6.28E+03	0.00E+00
TE-131m	6.99E+01	4.36E+01	2.90E+01	5.50E+01	3.09E+02	1.46E+05	5.56E+05	0.00E+00
TE-131	1.11E-02	5.95E-03	3.59E-03	9.36E-03	4.37E-02	1.39E+03	1.84E+01	0.00E+00
I-132	1.16E+03	3.26E+03	1.16E+03	1.14E+05	5.18E+03	0.00E+00	4.06E+02	0.00E+00
TE-132	2.60E+02	2.15E+02	1.62E+02	1.90E+02	1.46E+03	2.88E+05	5.10E+05	0.00E+00
I-133	8.64E+03	1.48E+04	4.52E+03	2.15E+06	2.58E+04	0.00E+00	8.88E+03	0.00E+00
CS-134m	1.27E+02	2.56E+02	1.38E+02	0.00E+00	1.46E+02	2.34E+01	6.34E+01	0.00E+00
CS-134	3.73E+05	8.48E+05	7.28E+05	0.00E+00	2.87E+05	9.76E+04	1.04E+04	0.00E+00
I-134	6.44E+02	1.73E+03	6.15E+02	2.98E+04	2.75E+03	0.00E+00	1.01E+00	0.00E+00
I-135	2.68E+03	6.98E+03	2.57E+03	4.48E+05	1.11E+04	0.00E+00	5.25E+03	0.00E+00
CS-135	1.17E+05	1.03E+05	4.79E+04	0.00E+00	4.09E+04	1.26E+04	1.69E+03	0.00E+00
CS-136	3.90E+04	1.46E+05	1.10E+05	0.00E+00	8.56E+04	1.20E+04	1.17E+04	0.00E+00
CS-137	4.78E+05	6.21E+05	4.28E+05	0.00E+00	2.22E+05	7.52E+04	8.40E+03	0.00E+00
CS-138	3.31E+02	6.21E+02	3.24E+02	0.00E+00	4.80E+02	4.86E+01	1.86E-03	0.00E+00
CS-139	2.05E+02	2.90E+02	1.11E+02	0.00E+00	2.44E+02	2.27E+01	4.39E-21	0.00E+00
BA-139	9.36E-01	6.66E-04	2.74E-02	0.00E+00	6.22E-04	3.76E+03	8.96E+02	0.00E+00
BA-140	3.90E+04	4.90E+01	2.57E+03	0.00E+00	1.67E+01	1.27E+06	2.18E+05	0.00E+00
LA-140	3.44E+02	1.74E+02	4.58E+01	0.00E+00	0.00E+00	1.36E+05	4.58E+05	0.00E+00
BA-141	1.00E-01	7.53E-05	3.36E-03	0.00E+00	7.00E-05	1.94E+03	1.16E-07	0.00E+00
LA-141	4.27E+00	1.33E+00	2.17E-01	0.00E+00	0.00E+00	1.08E+04	5.85E+04	0.00E+00
CE-141	1.99E+04	1.35E+04	1.53E+03	0.00E+00	6.26E+03	3.62E+05	1.20E+05	0.00E+00
BA-142	2.63E-02	2.70E-05	1.66E-03	0.00E+00	2.29E-05	1.19E+03	1.57E-16	0.00E+00
LA-142	6.83E-01	3.10E-01	7.72E-02	0.00E+00	0.00E+00	6.33E+03	2.11E+03	0.00E+00
CE-143	1.86E+02	1.38E+02	1.53E+01	0.00E+00	6.08E+01	7.98E+04	2.26E+05	0.00E+00
PR-143	9.36E+03	3.75E+03	4.64E+02	0.00E+00	2.16E+03	2.81E+05	2.00E+05	0.00E+00
CE-144	3.43E+06	1.43E+06	1.84E+05	0.00E+00	8.48E+05	7.78E+06	8.16E+05	0.00E+00
PR-144	3.01E-02	1.25E-02	1.53E-03	0.00E+00	7.05E-03	1.02E+03	2.15E-08	0.00E+00
ND-147	5.27E+03	6.10E+03	3.65E+02	0.00E+00	3.56E+03	2.21E+05	1.73E+05	0.00E+00
PM-147	6.70E+05	6.30E+04	2.55E+04	0.00E+00	1.19E+05	5.28E+05	4.43E+04	0.00E+00
PM-148m	7.86E+04	2.03E+04	1.55E+04	0.00E+00	3.08E+04	1.71E+06	3.34E+05	0.00E+00
PM-148	3.07E+03	5.10E+02	2.56E+02	0.00E+00	9.60E+02	3.13E+05	4.64E+05	0.00E+00
PM-149	2.75E+02	3.90E+01	1.59E+01	0.00E+00	7.35E+01	5.77E+04	2.00E+05	0.00E+00
PM-151	6.80E+01	1.14E+01	5.77E+00	0.00E+00	2.04E+01	3.15E+04	1.60E+05	0.00E+00
SM-151	6.87E+05	1.18E+05	2.84E+04	0.00E+00	1.33E+05	3.56E+05	2.60E+04	0.00E+00



Table 4-27 (Page 4 of 4)

Adult Inhalation  $P_i$ mrem\*m<sup>3</sup>/yr\* $\mu$ 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	1.36E+02	1.14E+02	8.32E+00	0.00E+00	3.67E+01	3.31E+04	1.26E+05	0.00E+00
EU-152	1.90E+06	4.33E+05	3.81E+05	0.00E+00	2.68E+06	2.74E+06	1.27E+05	0.00E+00
EU-154	5.92E+06	7.28E+05	5.18E+05	0.00E+00	3.49E+06	4.67E+06	2.72E+05	0.00E+00
EU-155	8.08E+05	1.14E+05	7.37E+04	0.00E+00	5.27E+05	7.57E+05	4.76E+04	0.00E+00
EU-156	1.54E+04	1.18E+04	1.92E+03	0.00E+00	7.96E+03	6.85E+05	3.60E+05	0.00E+00
TB-160	1.77E+05	0.00E+00	2.20E+04	0.00E+00	7.28E+04	1.54E+06	2.14E+05	0.00E+00
HO-166m	2.70E+06	8.40E+05	6.40E+05	0.00E+00	1.26E+06	3.15E+06	1.27E+05	0.00E+00
W-181	4.98E+01	1.62E+01	1.74E+00	0.00E+00	0.00E+00	1.37E+04	2.02E+03	0.00E+00
W-185	1.56E+03	5.18E+02	5.45E+01	0.00E+00	0.00E+00	4.46E+05	8.56E+04	0.00E+00
W-187	8.48E+00	7.08E+00	2.48E+00	0.00E+00	0.00E+00	2.90E+04	1.55E+05	0.00E+00
NP-239	2.30E+02	2.26E+01	1.24E+01	0.00E+00	7.00E+01	3.76E+04	1.19E+05	0.00E+00
U-232	4.11E+08	0.00E+00	2.93E+07	0.00E+00	4.45E+07	1.78E+09	3.37E+05	0.00E+00
U-233	8.72E+07	0.00E+00	5.28E+06	0.00E+00	2.03E+07	4.26E+08	3.11E+05	0.00E+00
U-234	8.32E+07	0.00E+00	5.17E+06	0.00E+00	1.99E+07	4.18E+08	3.05E+05	0.00E+00
U-235	8.00E+07	0.00E+00	4.86E+06	0.00E+00	1.87E+07	3.92E+08	3.87E+05	0.00E+00
U-236	8.00E+07	0.00E+00	4.96E+06	0.00E+00	1.91E+07	4.00E+08	2.86E+05	0.00E+00
U-237	2.94E+02	0.00E+00	7.82E+01	0.00E+00	1.21E+03	8.16E+04	9.60E+04	0.00E+00
U-238	7.66E+07	0.00E+00	4.54E+06	0.00E+00	1.74E+07	3.66E+08	2.73E+05	0.00E+00
NP-237	1.25E+10	8.00E+09	5.50E+08	0.00E+00	4.08E+09	4.18E+08	3.94E+05	0.00E+00
NP-238	2.37E+03	5.76E+02	3.69E+01	0.00E+00	2.18E+02	8.16E+04	1.70E+05	0.00E+00
PU-238	1.14E+10	7.77E+09	5.52E+08	0.00E+00	2.37E+09	1.46E+09	3.62E+05	0.00E+00
PU-239	1.33E+10	8.56E+09	6.20E+08	0.00E+00	2.64E+09	1.38E+09	3.30E+05	0.00E+00
PU-240	1.32E+10	8.56E+09	6.18E+08	0.00E+00	2.63E+09	1.38E+09	3.37E+05	0.00E+00
PU-241	2.74E+08	6.95E+07	1.03E+07	0.00E+00	4.74E+07	1.22E+06	6.92E+03	0.00E+00
PU-242	1.22E+10	8.24E+09	5.97E+08	0.00E+00	2.54E+09	1.32E+09	3.24E+05	0.00E+00
PU-244	1.43E+10	9.44E+09	6.83E+08	0.00E+00	2.91E+09	1.51E+09	4.82E+05	0.00E+00
AM-241	1.34E+10	9.04E+09	5.37E+08	0.00E+00	4.03E+09	4.85E+08	3.68E+05	0.00E+00
AM-242m	1.36E+10	8.48E+09	5.38E+08	0.00E+00	4.01E+09	1.95E+08	4.63E+05	0.00E+00
AM-243	1.34E+10	8.80E+09	5.26E+08	0.00E+00	3.96E+09	4.60E+08	4.32E+05	0.00E+00
CM-242	1.78E+08	1.42E+08	7.87E+06	0.00E+00	3.58E+07	3.14E+08	3.93E+05	0.00E+00
CM-243	8.80E+09	6.09E+09	3.69E+08	0.00E+00	1.72E+09	5.05E+08	3.87E+05	0.00E+00
CM-244	6.70E+09	4.70E+09	2.81E+08	0.00E+00	1.31E+09	4.85E+08	3.74E+05	0.00E+00
CM-245	1.39E+10	9.12E+09	5.71E+08	0.00E+00	2.66E+09	4.68E+08	3.49E+05	0.00E+00
CM-246	1.38E+10	9.12E+09	5.70E+08	0.00E+00	2.66E+09	4.77E+08	3.43E+05	0.00E+00
CM-247	1.34E+10	8.96E+09	5.62E+08	0.00E+00	2.62E+09	4.68E+08	4.50E+05	0.00E+00
CM-248	1.12E+11	7.41E+10	4.63E+09	0.00E+00	2.16E+10	3.86E+09	7.27E+06	0.00E+00
CF-252	4.34E+09	0.00E+00	1.86E+08	0.00E+00	0.00E+00	1.59E+09	1.42E+06	0.00E+00

Table 4-28 (Page 1 of 4)

All Age Groups Ground Plane  $R_i$  $m^2 \cdot mrem \cdot sec/yr \cdot \mu Ci$ 

<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	1.16E+10	1.16E+10	1.16E+10	1.16E+10	1.16E+10	1.16E+10	1.16E+10	1.31E+10
NA-24	1.19E+07	1.19E+07	1.19E+07	1.19E+07	1.19E+07	1.19E+07	1.19E+07	1.39E+07
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	1.98E+10	1.98E+10	1.98E+10	1.98E+10	1.98E+10	1.98E+10	1.98E+10	2.33E+10
SC-46	8.33E+08	8.33E+08	8.33E+08	8.33E+08	8.33E+08	8.33E+08	8.33E+08	9.61E+08
CR-51	4.66E+06	4.66E+06	4.66E+06	4.66E+06	4.66E+06	4.66E+06	4.66E+06	5.51E+06
MN-54	1.39E+09	1.39E+09	1.39E+09	1.39E+09	1.39E+09	1.39E+09	1.39E+09	1.63E+09
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	9.03E+05	9.03E+05	9.03E+05	9.03E+05	9.03E+05	9.03E+05	9.03E+05	1.07E+06
CO-57	1.88E+08	1.88E+08	1.88E+08	1.88E+08	1.88E+08	1.88E+08	1.88E+08	2.07E+08
CO-58	3.79E+08	3.79E+08	3.79E+08	3.79E+08	3.79E+08	3.79E+08	3.79E+08	4.44E+08
FE-59	2.73E+08	2.73E+08	2.73E+08	2.73E+08	2.73E+08	2.73E+08	2.73E+08	3.21E+08
CO-60	2.45E+10	2.45E+10	2.45E+10	2.45E+10	2.45E+10	2.45E+10	2.45E+10	2.89E+10
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	6.07E+05	6.07E+05	6.07E+05	6.07E+05	6.07E+05	6.07E+05	6.07E+05	6.88E+05
NI-65	2.97E+05	2.97E+05	2.97E+05	2.97E+05	2.97E+05	2.97E+05	2.97E+05	3.45E+05
ZN-65	7.47E+08	7.47E+08	7.47E+08	7.47E+08	7.47E+08	7.47E+08	7.47E+08	8.59E+08
ZN-69m	1.27E+06	1.27E+06	1.27E+06	1.27E+06	1.27E+06	1.27E+06	1.27E+06	1.49E+06
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	2.14E+07	2.14E+07	2.14E+07	2.14E+07	2.14E+07	2.14E+07	2.14E+07	2.47E+07
BR-83	4.87E+03	4.87E+03	4.87E+03	4.87E+03	4.87E+03	4.87E+03	4.87E+03	7.08E+03
BR-84	2.03E+05	2.03E+05	2.03E+05	2.03E+05	2.03E+05	2.03E+05	2.03E+05	2.36E+05
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	8.99E+06	8.99E+06	8.99E+06	8.99E+06	8.99E+06	8.99E+06	8.99E+06	1.03E+07
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	3.31E+04	3.31E+04	3.31E+04	3.31E+04	3.31E+04	3.31E+04	3.31E+04	3.78E+04
RB-89	1.23E+05	1.23E+05	1.23E+05	1.23E+05	1.23E+05	1.23E+05	1.23E+05	1.48E+05
SR-89	2.16E+04	2.16E+04	2.16E+04	2.16E+04	2.16E+04	2.16E+04	2.16E+04	2.51E+04
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	4.49E+03	4.49E+03	4.49E+03	4.49E+03	4.49E+03	4.49E+03	4.49E+03	5.31E+03
SR-91	2.15E+06	2.15E+06	2.15E+06	2.15E+06	2.15E+06	2.15E+06	2.15E+06	2.51E+06
Y-91m	1.00E+05	1.00E+05	1.00E+05	1.00E+05	1.00E+05	1.00E+05	1.00E+05	1.16E+05
Y-91	1.07E+06	1.07E+06	1.07E+06	1.07E+06	1.07E+06	1.07E+06	1.07E+06	1.21E+06

Table 4-28 (Page 2 of 4)

All Age Groups Ground Plane R<sub>i</sub>m<sup>2</sup>\*mrem\*sec/yr\*μCi

<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	7.77E+05	7.77E+05	7.77E+05	7.77E+05	7.77E+05	7.77E+05	7.77E+05	8.63E+05
Y-92	1.80E+05	1.80E+05	1.80E+05	1.80E+05	1.80E+05	1.80E+05	1.80E+05	2.14E+05
Y-93	1.83E+05	1.83E+05	1.83E+05	1.83E+05	1.83E+05	1.83E+05	1.83E+05	2.51E+05
NB-93m	2.54E+06	2.54E+06	2.54E+06	2.54E+06	2.54E+06	2.54E+06	2.54E+06	3.09E+08
NB-95	1.37E+08	1.37E+08	1.37E+08	1.37E+08	1.37E+08	1.37E+08	1.37E+08	1.61E+08
NB-97	1.76E+05	1.76E+05	1.76E+05	1.76E+05	1.76E+05	1.76E+05	1.76E+05	2.07E+05
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	2.45E+08	2.45E+08	2.45E+08	2.45E+08	2.45E+08	2.45E+08	2.45E+08	2.84E+08
ZR-97	2.96E+06	2.96E+06	2.96E+06	2.96E+06	2.96E+06	2.96E+06	2.96E+06	3.44E+06
MO-93	1.32E+08	1.32E+08	1.32E+08	1.32E+08	1.32E+08	1.32E+08	1.32E+08	5.39E+09
MO-99	3.99E+06	3.99E+06	3.99E+06	3.99E+06	3.99E+06	3.99E+06	3.99E+06	4.63E+06
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	1.84E+05	1.84E+05	1.84E+05	1.84E+05	1.84E+05	1.84E+05	1.84E+05	2.11E+05
TC-101	2.04E+04	2.04E+04	2.04E+04	2.04E+04	2.04E+04	2.04E+04	2.04E+04	2.26E+04
RU-103	1.08E+08	1.08E+08	1.08E+08	1.08E+08	1.08E+08	1.08E+08	1.08E+08	1.26E+08
RU-105	6.36E+05	6.36E+05	6.36E+05	6.36E+05	6.36E+05	6.36E+05	6.36E+05	7.21E+05
RU-106	4.22E+08	4.22E+08	4.22E+08	4.22E+08	4.22E+08	4.22E+08	4.22E+08	5.07E+08
RH-105	7.43E+05	7.43E+05	7.43E+05	7.43E+05	7.43E+05	7.43E+05	7.43E+05	8.67E+05
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	1.50E+04	1.50E+04	1.50E+04	1.50E+04	1.50E+04	1.50E+04	1.50E+04	1.71E+04
AG-110m	3.44E+09	3.44E+09	3.44E+09	3.44E+09	3.44E+09	3.44E+09	3.44E+09	4.01E+09
AG-111	1.03E+06	1.03E+06	1.03E+06	1.03E+06	1.03E+06	1.03E+06	1.03E+06	1.20E+06
CD-113m	6.87E+06	6.87E+06	6.87E+06	6.87E+06	6.87E+06	6.87E+06	6.87E+06	7.76E+06
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	6.38E+09
SN-125	4.20E+06	4.20E+06	4.20E+06	4.20E+06	4.20E+06	4.20E+06	4.20E+06	4.86E+06
SN-126	5.22E+10	5.22E+10	5.22E+10	5.22E+10	5.22E+10	5.22E+10	5.22E+10	5.80E+10
SB-124	5.98E+08	5.98E+08	5.98E+08	5.98E+08	5.98E+08	5.98E+08	5.98E+08	6.90E+08
SB-125	2.40E+09	2.40E+09	2.40E+09	2.40E+09	2.40E+09	2.40E+09	2.40E+09	2.71E+09
SB-126	8.44E+07	8.44E+07	8.44E+07	8.44E+07	8.44E+07	8.44E+07	8.44E+07	9.48E+07
SB-127	1.68E+07	1.68E+07	1.68E+07	1.68E+07	1.68E+07	1.68E+07	1.68E+07	1.94E+07
TE-125m	1.55E+06	1.55E+06	1.55E+06	1.55E+06	1.55E+06	1.55E+06	1.55E+06	2.13E+06
TE-127m	9.16E+04	9.16E+04	9.16E+04	9.16E+04	9.16E+04	9.16E+04	9.16E+04	1.08E+05
TE-127	2.98E+03	2.98E+03	2.98E+03	2.98E+03	2.98E+03	2.98E+03	2.98E+03	3.28E+03
TE-129m	1.98E+07	1.98E+07	1.98E+07	1.98E+07	1.98E+07	1.98E+07	1.98E+07	2.31E+07
TE-129	2.62E+04	2.62E+04	2.62E+04	2.62E+04	2.62E+04	2.62E+04	2.62E+04	3.10E+04
TE-133m	4.41E+05	4.41E+05	4.41E+05	4.41E+05	4.41E+05	4.41E+05	4.41E+05	5.00E+05

Table 4-28 (Page 3 of 4)

All Age Groups Ground Plane  $R_i$  $m^2 \cdot mrem \cdot sec/yr \cdot \mu Ci$ 

<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	2.22E+04	2.22E+04	2.22E+04	2.22E+04	2.22E+04	2.22E+04	2.22E+04	2.66E+04
I-129	2.61E+09	2.61E+09	2.61E+09	2.61E+09	2.61E+09	2.61E+09	2.61E+09	4.35E+09
I-130	5.51E+06	5.51E+06	5.51E+06	5.51E+06	5.51E+06	5.51E+06	5.51E+06	6.69E+06
I-131	1.72E+07	1.72E+07	1.72E+07	1.72E+07	1.72E+07	1.72E+07	1.72E+07	2.09E+07
TE-131m	8.03E+06	8.03E+06	8.03E+06	8.03E+06	8.03E+06	8.03E+06	8.03E+06	9.46E+06
TE-131	2.92E+04	2.92E+04	2.92E+04	2.92E+04	2.92E+04	2.92E+04	2.92E+04	3.45E+07
I-132	1.25E+06	1.25E+06	1.25E+06	1.25E+06	1.25E+06	1.25E+06	1.25E+06	1.46E+06
TE-132	4.23E+06	4.23E+06	4.23E+06	4.23E+06	4.23E+06	4.23E+06	4.23E+06	4.98E+06
I-133	2.45E+06	2.45E+06	2.45E+06	2.45E+06	2.45E+06	2.45E+06	2.45E+06	2.98E+06
CS-134m	5.73E+04	5.73E+04	5.73E+04	5.73E+04	5.73E+04	5.73E+04	5.73E+04	6.74E+04
CS-134	6.91E+09	6.91E+09	6.91E+09	6.91E+09	6.91E+09	6.91E+09	6.91E+09	8.06E+09
I-134	4.47E+05	4.47E+05	4.47E+05	4.47E+05	4.47E+05	4.47E+05	4.47E+05	5.30E+05
I-135	2.53E+06	2.53E+06	2.53E+06	2.53E+06	2.53E+06	2.53E+06	2.53E+06	2.95E+06
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	1.51E+08	1.51E+08	1.51E+08	1.51E+08	1.51E+08	1.51E+08	1.51E+08	1.71E+08
CS-137	1.76E+10	1.76E+10	1.76E+10	1.76E+10	1.76E+10	1.76E+10	1.76E+10	2.05E+10
CS-138	3.59E+05	3.59E+05	3.59E+05	3.59E+05	3.59E+05	3.59E+05	3.59E+05	4.10E+05
CS-139	3.14E+04	3.14E+04	3.14E+04	3.14E+04	3.14E+04	3.14E+04	3.14E+04	3.59E+04
BA-139	1.06E+05	1.06E+05	1.06E+05	1.06E+05	1.06E+05	1.06E+05	1.06E+05	1.19E+05
BA-140	2.05E+07	2.05E+07	2.05E+07	2.05E+07	2.05E+07	2.05E+07	2.05E+07	2.35E+07
LA-140	1.92E+07	1.92E+07	1.92E+07	1.92E+07	1.92E+07	1.92E+07	1.92E+07	2.18E+07
BA-141	4.17E+04	4.17E+04	4.17E+04	4.17E+04	4.17E+04	4.17E+04	4.17E+04	4.75E+04
LA-141	3.14E+04	3.14E+04	3.14E+04	3.14E+04	3.14E+04	3.14E+04	3.14E+04	3.51E+04
CE-141	1.37E+07	1.37E+07	1.37E+07	1.37E+07	1.37E+07	1.37E+07	1.37E+07	1.54E+07
BA-142	4.49E+04	4.49E+04	4.49E+04	4.49E+04	4.49E+04	4.49E+04	4.49E+04	5.11E+04
LA-142	7.60E+05	7.60E+05	7.60E+05	7.60E+05	7.60E+05	7.60E+05	7.60E+05	9.11E+05
CE-143	2.31E+06	2.31E+06	2.31E+06	2.31E+06	2.31E+06	2.31E+06	2.31E+06	2.63E+06
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	6.95E+07	6.95E+07	6.95E+07	6.95E+07	6.95E+07	6.95E+07	6.95E+07	8.04E+07
PR-144	1.83E+03	1.83E+03	1.83E+03	1.83E+03	1.83E+03	1.83E+03	1.83E+03	2.11E+03
ND-147	8.39E+06	8.39E+06	8.39E+06	8.39E+06	8.39E+06	8.39E+06	8.39E+06	1.01E+07
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	4.45E+08	4.45E+08	4.45E+08	4.45E+08	4.45E+08	4.45E+08	4.45E+08	2.58E+09
PM-148	1.89E+07	1.89E+07	1.89E+07	1.89E+07	1.89E+07	1.89E+07	1.89E+07	2.18E+07
PM-149	4.23E+04	4.23E+04	4.23E+04	4.23E+04	4.23E+04	4.23E+04	4.23E+04	4.90E+04
PM-151	1.99E+06	1.99E+06	1.99E+06	1.99E+06	1.99E+06	1.99E+06	1.99E+06	2.08E+06
SM-151	2.49E+08	2.49E+08	2.49E+08	2.49E+08	2.49E+08	2.49E+08	2.49E+08	1.09E+09

Table 4-28 (Page 4 of 4)

All Age Groups Ground Plane R<sub>i</sub> $m^2 \cdot mrem \cdot sec/yr \cdot \mu Ci$ 

<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	4.02E+05	4.02E+05	4.02E+05	4.02E+05	4.02E+05	4.02E+05	4.02E+05	4.46E+05
EU-152	2.19E+10	2.19E+10	2.19E+10	2.19E+10	2.19E+10	2.19E+10	2.19E+10	2.54E+10
EU-154	1.74E+10	1.74E+10	1.74E+10	1.74E+10	1.74E+10	1.74E+10	1.74E+10	2.00E+10
EU-155	5.20E+08	5.20E+08	5.20E+08	5.20E+08	5.20E+08	5.20E+08	5.20E+08	5.90E+08
EU-156	8.82E+07	8.82E+07	8.82E+07	8.82E+07	8.82E+07	8.82E+07	8.82E+07	1.01E+08
TB-160	4.75E+08	4.75E+08	4.75E+08	4.75E+08	4.75E+08	4.75E+08	4.75E+08	5.53E+08
HO-166m	5.12E+10	5.12E+10	5.12E+10	5.12E+10	5.12E+10	5.12E+10	5.12E+10	5.75E+10
W-181	1.94E+05	1.94E+05	1.94E+05	1.94E+05	1.94E+05	1.94E+05	1.94E+05	2.59E+05
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	2.35E+06	2.35E+06	2.35E+06	2.35E+06	2.35E+06	2.35E+06	2.35E+06	2.73E+06
NP-239	1.71E+06	1.71E+06	1.71E+06	1.71E+06	1.71E+06	1.71E+06	1.71E+06	1.98E+06
U-232	1.31E+07	1.31E+07	1.31E+07	1.31E+07	1.31E+07	1.31E+07	1.31E+07	1.36E+08
U-233	1.33E+10	1.33E+10	1.33E+10	1.33E+10	1.33E+10	1.33E+10	1.33E+10	1.62E+10
U-234	3.67E+06	3.67E+06	3.67E+06	3.67E+06	3.67E+06	3.67E+06	3.67E+06	9.22E+08
U-235	1.86E+10	1.86E+10	1.86E+10	1.86E+10	1.86E+10	1.86E+10	1.86E+10	2.32E+10
U-236	1.22E+05	1.22E+05	1.22E+05	1.22E+05	1.22E+05	1.22E+05	1.22E+05	1.04E+08
U-237	5.16E+06	5.16E+06	5.16E+06	5.16E+06	5.16E+06	5.16E+06	5.16E+06	6.71E+06
U-238	6.38E+08	6.38E+08	6.38E+08	6.38E+08	6.38E+08	6.38E+08	6.38E+08	8.70E+08
NP-237	8.12E+09	8.12E+09	8.12E+09	8.12E+09	8.12E+09	8.12E+09	8.12E+09	9.28E+09
NP-238	4.53E+06	4.53E+06	4.53E+06	4.53E+06	4.53E+06	4.53E+06	4.53E+06	5.18E+06
PU-238	6.71E+06	6.71E+06	6.71E+06	6.71E+06	6.71E+06	6.71E+06	6.71E+06	9.30E+07
PU-239	4.58E+06	4.58E+06	4.58E+06	4.58E+06	4.58E+06	4.58E+06	4.58E+06	4.46E+07
PU-240	7.53E+06	7.53E+06	7.53E+06	7.53E+06	7.53E+06	7.53E+06	7.53E+06	1.04E+08
PU-241	1.41E+07	1.41E+07	1.41E+07	1.41E+07	1.41E+07	1.41E+07	1.41E+07	2.09E+07
PU-242	6.38E+06	6.38E+06	6.38E+06	6.38E+06	6.38E+06	6.38E+06	6.38E+06	9.28E+07
PU-244	5.19E+09	5.19E+09	5.19E+09	5.19E+09	5.19E+09	5.19E+09	5.19E+09	5.58E+09
AM-241	1.02E+09	1.02E+09	1.02E+09	1.02E+09	1.02E+09	1.02E+09	1.02E+09	1.47E+09
AM-242m	1.41E+08	1.41E+08	1.41E+08	1.41E+08	1.41E+08	1.41E+08	1.41E+08	9.76E+08
AM-243	7.53E+09	7.53E+09	7.53E+09	7.53E+09	7.53E+09	7.53E+09	7.53E+09	8.69E+09
CM-242	6.86E+05	6.86E+05	6.86E+05	6.86E+05	6.86E+05	6.86E+05	6.86E+05	2.87E+06
CM-243	9.47E+09	9.47E+09	9.47E+09	9.47E+09	9.47E+09	9.47E+09	9.47E+09	1.19E+10
CM-244	1.00E+07	1.00E+07	1.00E+07	1.00E+07	1.00E+07	1.00E+07	1.00E+07	6.21E+07
CM-245	5.50E+09	5.50E+09	5.50E+09	5.50E+09	5.50E+09	5.50E+09	5.50E+09	6.95E+09
CM-246	5.79E+06	5.79E+06	5.79E+06	5.79E+06	5.79E+06	5.79E+06	5.79E+06	8.68E+07
CM-247	1.28E+10	1.28E+10	1.28E+10	1.28E+10	1.28E+10	1.28E+10	1.28E+10	1.51E+10
CM-248	3.03E+10	3.03E+10	3.03E+10	3.03E+10	3.03E+10	3.03E+10	3.03E+10	3.95E+10
CF-252	4.86E+10	4.86E+10	4.86E+10	4.86E+10	4.86E+10	4.86E+10	4.86E+10	5.30E+10

Table 4-29 (Page 1 of 4)

Infant Inhalation  $R_i$ mrem\*m<sup>3</sup>/yr\* $\mu$ 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	6.47E+02	6.47E+02	6.47E+02	6.47E+02	6.47E+02	6.47E+02	0.00E+00
C-14	2.65E+04	5.31E+03	5.31E+03	5.31E+03	5.31E+03	5.31E+03	5.31E+03	0.00E+00
NA-22	1.03E+05	1.03E+05	1.03E+05	1.03E+05	1.03E+05	1.03E+05	1.03E+05	0.00E+00
NA-24	1.06E+04	1.06E+04	1.06E+04	1.06E+04	1.06E+04	1.06E+04	1.06E+04	0.00E+00
P-32	2.03E+06	1.12E+05	7.74E+04	0.00E+00	0.00E+00	0.00E+00	1.61E+04	0.00E+00
CA-41	1.05E+05	0.00E+00	1.14E+04	0.00E+00	0.00E+00	9.72E+07	4.14E+02	0.00E+00
SC-46	5.25E+05	7.57E+05	2.37E+05	0.00E+00	4.98E+05	0.00E+00	3.07E+04	0.00E+00
CR-51	0.00E+00	0.00E+00	8.95E+01	5.75E+01	1.32E+01	1.28E+04	3.57E+02	0.00E+00
MN-54	0.00E+00	2.53E+04	4.98E+03	0.00E+00	4.98E+03	1.00E+06	7.06E+03	0.00E+00
FE-55	1.97E+04	1.18E+04	3.33E+03	0.00E+00	0.00E+00	8.69E+04	1.10E+03	0.00E+00
MN-56	0.00E+00	1.54E+00	2.21E-01	0.00E+00	1.10E+00	1.25E+04	7.17E+04	0.00E+00
CO-57	0.00E+00	6.51E+02	6.41E+02	0.00E+00	0.00E+00	3.79E+05	4.86E+03	0.00E+00
CO-58	0.00E+00	1.22E+03	1.82E+03	0.00E+00	0.00E+00	7.77E+05	1.11E+04	0.00E+00
FE-59	1.36E+04	2.35E+04	9.48E+03	0.00E+00	0.00E+00	1.02E+06	2.48E+04	0.00E+00
CO-60	0.00E+00	8.02E+03	1.18E+04	0.00E+00	0.00E+00	4.51E+06	3.19E+04	0.00E+00
NI-59	2.53E+04	7.62E+03	4.34E+03	0.00E+00	0.00E+00	7.67E+04	8.88E+02	0.00E+00
NI-63	3.39E+05	2.04E+04	1.16E+04	0.00E+00	0.00E+00	2.09E+05	2.42E+03	0.00E+00
CU-64	0.00E+00	1.88E+00	7.74E-01	0.00E+00	3.98E+00	9.30E+03	1.50E+04	0.00E+00
NI-65	2.39E+00	2.84E-01	1.23E-01	0.00E+00	0.00E+00	8.12E+03	5.01E+04	0.00E+00
ZN-65	1.93E+04	6.26E+04	3.11E+04	0.00E+00	3.25E+04	6.47E+05	5.14E+04	0.00E+00
ZN-69m	1.26E+01	2.58E+01	2.34E+00	0.00E+00	1.04E+01	2.67E+04	4.09E+04	0.00E+00
ZN-69	5.39E-02	9.67E-02	7.18E-03	0.00E+00	4.02E-02	1.47E+03	1.32E+04	0.00E+00
SE-79	0.00E+00	3.15E+03	5.88E+02	0.00E+00	3.46E+03	4.19E+05	4.84E+04	0.00E+00
BR-82	0.00E+00	0.00E+00	1.33E+04	0.00E+00	0.00E+00	0.00E+00	1.40E-15	0.00E+00
BR-83	0.00E+00	0.00E+00	3.81E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
BR-84	0.00E+00	0.00E+00	4.00E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
BR-85	0.00E+00	0.00E+00	2.04E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
RB-86	0.00E+00	1.90E+05	8.82E+04	0.00E+00	0.00E+00	0.00E+00	3.04E+03	0.00E+00
RB-87	0.00E+00	1.24E+05	4.93E+04	0.00E+00	0.00E+00	0.00E+00	8.37E+02	0.00E+00
RB-88	0.00E+00	5.57E+02	2.87E+02	0.00E+00	0.00E+00	0.00E+00	3.39E+02	0.00E+00
RB-89	0.00E+00	3.21E+02	2.06E+02	0.00E+00	0.00E+00	0.00E+00	6.82E+01	0.00E+00
SR-89	3.98E+05	0.00E+00	1.14E+04	0.00E+00	0.00E+00	2.03E+06	6.40E+04	0.00E+00
SR-90	4.09E+07	0.00E+00	2.59E+06	0.00E+00	0.00E+00	1.12E+07	1.31E+05	0.00E+00
Y-90	3.29E+03	0.00E+00	8.82E+01	0.00E+00	0.00E+00	2.69E+05	1.04E+05	0.00E+00
SR-91	9.56E+01	0.00E+00	3.46E+00	0.00E+00	0.00E+00	5.26E+04	7.34E+04	0.00E+00
Y-91m	4.07E-01	0.00E+00	1.39E-02	0.00E+00	0.00E+00	2.79E+03	2.35E+03	0.00E+00
Y-91	5.88E+05	0.00E+00	1.57E+04	0.00E+00	0.00E+00	2.45E+06	7.03E+04	0.00E+00

Table 4-29 (Page 2 of 4)

Infant Inhalation  $R_i$ mrem\*m<sup>3</sup>/yr\* $\mu$ 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	1.05E+01	0.00E+00	3.91E-01	0.00E+00	0.00E+00	2.38E+04	1.40E+05	0.00E+00
Y-92	1.64E+01	0.00E+00	4.61E-01	0.00E+00	0.00E+00	2.45E+04	1.27E+05	0.00E+00
Y-93	1.50E+02	0.00E+00	4.07E+00	0.00E+00	0.00E+00	7.64E+04	1.67E+05	0.00E+00
NB-93m	1.93E+05	5.03E+04	1.61E+04	0.00E+00	5.15E+04	2.93E+05	3.46E+03	0.00E+00
NB-95	1.57E+04	6.43E+03	3.78E+03	0.00E+00	4.72E+03	4.79E+05	1.27E+04	0.00E+00
NB-97	3.42E-01	7.29E-02	2.63E-02	0.00E+00	5.70E-02	3.32E+03	2.69E+04	0.00E+00
ZR-93	3.14E+05	1.33E+05	8.65E+04	0.00E+00	4.47E+05	1.92E+06	2.07E+04	0.00E+00
ZR-95	1.15E+05	2.79E+04	2.03E+04	0.00E+00	3.11E+04	1.75E+06	2.17E+04	0.00E+00
ZR-97	1.50E+02	2.56E+01	1.17E+01	0.00E+00	2.59E+01	1.10E+05	1.40E+05	0.00E+00
MO-93	0.00E+00	9.04E+03	3.11E+02	0.00E+00	2.16E+03	4.76E+05	5.26E+03	0.00E+00
MO-99	0.00E+00	1.65E+02	3.23E+01	0.00E+00	2.65E+02	1.35E+05	4.87E+04	0.00E+00
TC-99	2.93E+02	3.75E+02	1.24E+02	0.00E+00	3.49E+03	9.48E+05	1.09E+04	0.00E+00
TC-99m	1.40E-03	2.88E-03	3.72E-02	0.00E+00	3.11E-02	8.11E+02	2.03E+03	0.00E+00
TC-101	6.51E-05	8.23E-05	8.12E-04	0.00E+00	9.79E-04	5.84E+02	8.44E+02	0.00E+00
RU-103	2.02E+03	0.00E+00	6.79E+02	0.00E+00	4.24E+03	5.52E+05	1.61E+04	0.00E+00
RU-105	1.22E+00	0.00E+00	4.10E-01	0.00E+00	8.99E-01	1.57E+04	4.84E+04	0.00E+00
RU-106	8.68E+04	0.00E+00	1.09E+04	0.00E+00	1.07E+05	1.16E+07	1.64E+05	0.00E+00
RH-105	1.16E+01	7.57E+00	5.08E+00	0.00E+00	2.10E+01	2.91E+04	1.92E+04	0.00E+00
PD-107	0.00E+00	6.89E+01	5.75E+01	0.00E+00	3.85E+03	8.88E+04	1.03E+03	0.00E+00
PD-109	0.00E+00	5.49E+00	1.47E+00	0.00E+00	1.79E+01	2.35E+04	3.99E+04	0.00E+00
AG-110m	9.98E+03	7.22E+03	5.00E+03	0.00E+00	1.09E+04	3.67E+06	3.30E+04	0.00E+00
AG-111	5.25E+02	2.03E+02	1.09E+02	0.00E+00	4.27E+02	2.88E+05	4.23E+04	0.00E+00
CD-113m	0.00E+00	9.34E+05	3.70E+04	0.00E+00	8.12E+05	1.96E+06	2.31E+04	0.00E+00
CD-115m	0.00E+00	2.42E+05	8.67E+03	0.00E+00	1.32E+05	2.06E+06	7.03E+04	0.00E+00
SN-123	2.93E+05	5.89E+03	1.02E+04	5.98E+03	0.00E+00	3.11E+06	5.71E+04	0.00E+00
SN-125	1.41E+04	3.51E+02	8.40E+02	3.46E+02	0.00E+00	9.00E+05	1.02E+05	0.00E+00
SN-126	1.16E+06	2.02E+04	4.93E+04	5.38E+03	0.00E+00	6.90E+06	2.31E+04	0.00E+00
SB-124	3.79E+04	5.56E+02	1.20E+04	1.01E+02	0.00E+00	2.65E+06	5.91E+04	0.00E+00
SB-125	5.45E+04	4.77E+02	1.09E+04	6.23E+01	0.00E+00	1.64E+06	1.47E+04	0.00E+00
SB-126	4.31E+03	8.41E+01	1.55E+02	3.29E+01	0.00E+00	9.63E+05	7.46E+04	0.00E+00
SB-127	3.95E+02	7.06E+00	1.23E+02	5.04E+00	0.00E+00	2.16E+05	5.29E+04	0.00E+00
TE-125m	4.76E+03	1.99E+03	6.58E+02	1.62E+03	0.00E+00	4.47E+05	1.29E+04	0.00E+00
TE-127m	1.67E+04	6.90E+03	2.07E+03	4.87E+03	3.75E+04	1.31E+06	2.73E+04	0.00E+00
TE-127	2.23E+00	9.53E-01	4.89E-01	1.85E+00	4.86E+00	1.04E+04	2.44E+04	0.00E+00
TE-129m	1.41E+04	6.09E+03	2.23E+03	5.47E+03	3.18E+04	1.68E+06	6.90E+04	0.00E+00
TE-129	7.88E-02	3.47E-02	1.88E-02	6.75E-02	1.75E-01	3.00E+03	2.63E+04	0.00E+00
TE-133m	8.58E-02	5.03E-02	3.84E-02	7.73E-02	2.41E-01	5.49E+03	2.23E+04	0.00E+00

Table 4-29 (Page 3 of 4)

Infant Inhalation  $R_i$ mrem\*m<sup>3</sup>/yr\* $\mu$ 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	4.45E-02	2.86E-02	2.35E-02	4.07E-02	1.34E-01	4.10E+03	3.54E+03	0.00E+00
I-129	3.02E+04	2.23E+04	1.62E+04	1.46E+07	2.63E+04	0.00E+00	2.97E+02	0.00E+00
I-130	6.36E+03	1.39E+04	5.57E+03	1.60E+06	1.53E+04	0.00E+00	1.99E+03	0.00E+00
I-131	3.79E+04	4.44E+04	1.96E+04	1.48E+07	5.18E+04	0.00E+00	1.06E+03	0.00E+00
TE-131m	1.07E+02	5.50E+01	3.63E+01	8.93E+01	2.65E+02	1.99E+05	1.19E+05	0.00E+00
TE-131	1.74E-02	8.22E-03	5.00E-03	1.58E-02	3.99E-02	2.06E+03	8.22E+03	0.00E+00
I-132	1.69E+03	3.54E+03	1.26E+03	1.69E+05	3.95E+03	0.00E+00	1.90E+03	0.00E+00
TE-132	3.72E+02	2.37E+02	1.76E+02	2.79E+02	1.04E+03	3.40E+05	4.41E+04	0.00E+00
I-133	1.32E+04	1.92E+04	5.60E+03	3.56E+06	2.24E+04	0.00E+00	2.16E+03	0.00E+00
CS-134m	1.85E+02	2.94E+02	1.55E+02	0.00E+00	1.19E+02	2.80E+01	1.62E+02	0.00E+00
CS-134	3.96E+05	7.03E+05	7.45E+04	0.00E+00	1.90E+05	7.97E+04	1.33E+03	0.00E+00
I-134	9.21E+02	1.88E+03	6.65E+02	4.45E+04	2.09E+03	0.00E+00	1.29E+03	0.00E+00
I-135	3.86E+03	7.60E+03	2.77E+03	6.96E+05	8.47E+03	0.00E+00	1.83E+03	0.00E+00
CS-135	1.40E+05	1.21E+05	6.62E+03	0.00E+00	3.61E+04	1.41E+04	3.05E+02	0.00E+00
CS-136	4.83E+04	1.35E+05	5.29E+04	0.00E+00	5.64E+04	1.18E+04	1.43E+03	0.00E+00
CS-137	5.49E+05	6.12E+05	4.55E+04	0.00E+00	1.72E+05	7.13E+04	1.33E+03	0.00E+00
CS-138	5.05E+02	7.81E+02	3.98E+02	0.00E+00	4.10E+02	6.54E+01	8.76E+02	0.00E+00
CS-139	3.25E+02	4.24E+02	1.71E+02	0.00E+00	2.31E+02	3.54E+01	1.86E+01	0.00E+00
BA-139	1.48E+00	9.84E-04	4.30E-02	0.00E+00	5.92E-04	5.95E+03	5.10E+04	0.00E+00
BA-140	5.60E+04	5.60E+01	2.90E+03	0.00E+00	1.34E+01	1.60E+06	3.84E+04	0.00E+00
LA-140	5.05E+02	2.00E+02	5.15E+01	0.00E+00	0.00E+00	1.68E+05	8.48E+04	0.00E+00
BA-141	1.57E-01	1.08E-04	4.97E-03	0.00E+00	6.50E-05	2.97E+03	4.75E+03	0.00E+00
LA-141	6.79E+00	1.96E+00	3.43E-01	0.00E+00	0.00E+00	1.71E+04	8.34E+04	0.00E+00
CE-141	2.77E+04	1.67E+04	1.99E+03	0.00E+00	5.25E+03	5.17E+05	2.16E+04	0.00E+00
BA-142	3.98E-02	3.30E-05	1.96E-03	0.00E+00	1.90E-05	1.55E+03	6.93E+02	0.00E+00
LA-142	1.03E+00	3.77E-01	9.04E-02	0.00E+00	0.00E+00	8.22E+03	5.95E+04	0.00E+00
CE-143	2.93E+02	1.93E+02	2.21E+01	0.00E+00	5.64E+01	1.16E+05	4.97E+04	0.00E+00
PR-143	1.40E+04	5.24E+03	6.99E+02	0.00E+00	1.97E+03	4.33E+05	3.72E+04	0.00E+00
CE-144	3.19E+06	1.21E+06	1.76E+05	0.00E+00	5.38E+05	9.84E+06	1.48E+05	0.00E+00
PR-144	4.79E-02	1.85E-02	2.41E-03	0.00E+00	6.72E-03	1.61E+03	4.28E+03	0.00E+00
ND-147	7.94E+03	8.13E+03	5.00E+02	0.00E+00	3.15E+03	3.22E+05	3.12E+04	0.00E+00
PM-147	5.47E+05	4.30E+04	2.18E+04	0.00E+00	6.90E+04	6.37E+05	8.05E+03	0.00E+00
PM-148m	7.00E+04	1.74E+04	1.39E+04	0.00E+00	2.03E+04	1.71E+06	4.72E+04	0.00E+00
PM-148	4.68E+03	6.75E+01	3.42E+02	0.00E+00	8.06E+02	4.48E+05	8.46E+04	0.00E+00
PM-149	4.34E+02	5.71E+01	2.49E+01	0.00E+00	6.94E+01	9.10E+04	4.21E+04	0.00E+00
PM-151	1.05E+02	1.54E+01	7.77E+00	0.00E+00	1.82E+01	4.55E+04	3.61E+04	0.00E+00
SM-151	4.73E+05	9.03E+04	2.28E+04	0.00E+00	7.34E+04	4.17E+05	4.84E+03	0.00E+00



Table 4-29 (Page 4 of 4)

Infant Inhalation  $R_i$ mrem\*m<sup>3</sup>/yr\* $\mu$ 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	2.14E+02	1.65E+02	1.27E+01	0.00E+00	3.46E+01	5.18E+04	2.70E+04	0.00E+00
EU-152	1.10E+06	2.48E+05	2.41E+05	0.00E+00	8.32E+05	2.07E+06	1.38E+04	0.00E+00
EU-154	4.14E+06	4.84E+05	3.43E+05	0.00E+00	1.60E+06	4.27E+06	3.98E+04	0.00E+00
EU-155	8.36E+05	8.01E+04	4.84E+04	0.00E+00	2.21E+05	7.28E+05	7.27E+04	0.00E+00
EU-156	2.18E+04	1.34E+04	2.16E+03	0.00E+00	6.27E+03	8.57E+05	5.80E+04	0.00E+00
TB-160	1.57E+05	0.00E+00	1.96E+04	0.00E+00	4.48E+04	1.55E+06	3.00E+04	0.00E+00
HO-166m	2.03E+05	4.30E+05	3.51E+05	0.00E+00	5.91E+05	2.87E+06	2.31E+04	0.00E+00
W-181	6.80E+01	2.04E+01	2.34E+00	0.00E+00	0.00E+00	1.86E+04	3.68E+02	0.00E+00
W-185	2.20E+03	6.76E+02	7.81E+01	0.00E+00	0.00E+00	6.27E+05	1.57E+04	0.00E+00
W-187	1.30E+01	9.02E+00	3.12E+00	0.00E+00	0.00E+00	3.96E+04	3.56E+04	0.00E+00
NP-239	3.71E+02	3.32E+01	1.88E+01	0.00E+00	6.62E+01	5.95E+04	2.49E+04	0.00E+00
U-232	3.60E+08	0.00E+00	2.98E+07	0.00E+00	3.36E+07	2.09E+09	6.10E+04	0.00E+00
U-233	7.62E+07	0.00E+00	5.36E+06	0.00E+00	1.53E+07	4.98E+08	5.64E+04	0.00E+00
U-234	7.31E+07	0.00E+00	5.25E+06	0.00E+00	1.50E+07	4.89E+08	5.53E+04	0.00E+00
U-235	7.01E+07	0.00E+00	4.93E+06	0.00E+00	1.41E+07	4.59E+08	7.03E+04	0.00E+00
U-236	7.01E+07	0.00E+00	5.04E+06	0.00E+00	1.44E+07	4.69E+08	5.19E+04	0.00E+00
U-237	4.55E+02	0.00E+00	1.21E+02	0.00E+00	1.13E+03	1.28E+05	1.83E+04	0.00E+00
U-238	6.71E+07	0.00E+00	4.61E+06	0.00E+00	1.32E+07	4.28E+08	4.96E+04	0.00E+00
NP-237	4.03E+09	2.39E+09	1.76E+08	0.00E+00	1.08E+09	4.89E+08	7.14E+04	0.00E+00
NP-238	3.74E+03	8.47E+02	5.82E+01	0.00E+00	2.06E+02	1.29E+05	3.61E+04	0.00E+00
PU-238	3.77E+09	2.35E+09	1.78E+08	0.00E+00	6.50E+08	1.26E+09	6.57E+04	0.00E+00
PU-239	4.10E+09	2.46E+09	1.88E+08	0.00E+00	6.93E+08	1.19E+09	5.99E+04	0.00E+00
PU-240	4.10E+09	2.45E+09	1.88E+08	0.00E+00	6.92E+08	1.19E+09	6.10E+04	0.00E+00
PU-241	1.18E+08	2.59E+07	4.35E+06	0.00E+00	1.61E+07	1.07E+06	1.26E+03	0.00E+00
PU-242	3.81E+09	2.37E+09	1.81E+08	0.00E+00	6.68E+08	1.14E+09	5.88E+04	0.00E+00
PU-244	4.44E+09	2.72E+09	2.07E+08	0.00E+00	7.64E+08	1.31E+09	8.76E+04	0.00E+00
AM-241	4.41E+09	2.73E+09	1.83E+08	0.00E+00	1.11E+09	5.68E+08	6.69E+04	0.00E+00
AM-242m	4.55E+09	2.60E+09	1.89E+08	0.00E+00	1.12E+09	2.30E+08	8.41E+04	0.00E+00
AM-243	4.34E+09	2.63E+09	1.78E+08	0.00E+00	1.08E+09	5.39E+08	7.84E+04	0.00E+00
CM-242	1.79E+08	1.21E+08	7.98E+06	0.00E+00	2.37E+07	4.16E+08	7.14E+04	0.00E+00
CM-243	3.46E+09	2.13E+09	1.48E+08	0.00E+00	5.47E+08	5.94E+08	7.03E+04	0.00E+00
CM-244	2.90E+09	1.78E+09	1.24E+08	0.00E+00	4.49E+08	5.71E+08	6.80E+04	0.00E+00
CM-245	4.51E+09	2.74E+09	1.90E+08	0.00E+00	7.32E+08	5.49E+08	6.34E+04	0.00E+00
CM-246	4.48E+09	2.74E+09	1.90E+08	0.00E+00	7.32E+08	5.59E+08	6.23E+04	0.00E+00
CM-247	4.35E+09	2.70E+09	1.86E+08	0.00E+00	7.21E+08	5.49E+08	8.19E+04	0.00E+00
CM-248	3.61E+10	2.23E+10	1.54E+09	0.00E+00	5.94E+09	4.52E+09	1.32E+06	0.00E+00
CF-252	3.32E+09	0.00E+00	1.41E+08	0.00E+00	0.00E+00	1.92E+09	2.59E+05	0.00E+00

Table 4-30 (Page 1 of 4)

Child Inhalation R<sub>i</sub>mrem\*m<sup>3</sup>/yr\*μCi

<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	1.13E+03	1.13E+03	1.13E+03	1.13E+03	1.13E+03	1.13E+03	0.00E+00
C-14	3.59E+04	6.73E+03	6.73E+03	6.73E+03	6.73E+03	6.73E+03	6.73E+03	0.00E+00
NA-22	1.63E+05	1.63E+05	1.63E+05	1.63E+05	1.63E+05	1.63E+05	1.63E+05	0.00E+00
NA-24	1.61E+04	1.61E+04	1.61E+04	1.61E+04	1.61E+04	1.61E+04	1.61E+04	0.00E+00
P-32	2.61E+06	1.14E+05	9.88E+04	0.00E+00	0.00E+00	0.00E+00	4.22E+04	0.00E+00
CA-41	2.61E+05	0.00E+00	2.85E+04	0.00E+00	0.00E+00	2.67E+08	1.09E+03	0.00E+00
SC-46	7.29E+05	9.99E+05	3.85E+05	0.00E+00	8.84E+05	0.00E+00	9.07E+04	0.00E+00
CR-51	0.00E+00	0.00E+00	1.54E+02	8.55E+01	2.43E+01	1.70E+04	1.08E+03	0.00E+00
MN-54	0.00E+00	4.29E+04	9.51E+03	0.00E+00	1.00E+04	1.58E+06	2.29E+04	0.00E+00
FE-55	4.74E+04	2.52E+04	7.77E+03	0.00E+00	0.00E+00	1.11E+05	2.87E+03	0.00E+00
MN-56	0.00E+00	1.66E+00	3.12E-01	0.00E+00	1.67E+00	1.31E+04	1.23E+05	0.00E+00
CO-57	0.00E+00	9.03E+02	1.07E+03	0.00E+00	0.00E+00	5.07E+05	1.32E+04	0.00E+00
CO-58	0.00E+00	1.77E+03	3.16E+03	0.00E+00	0.00E+00	1.11E+06	3.44E+04	0.00E+00
FE-59	2.07E+04	3.35E+04	1.67E+04	0.00E+00	0.00E+00	1.27E+06	7.07E+04	0.00E+00
CO-60	0.00E+00	1.31E+04	2.26E+04	0.00E+00	0.00E+00	7.07E+06	9.62E+04	0.00E+00
NI-59	6.14E+04	1.73E+04	1.05E+04	0.00E+00	0.00E+00	1.01E+05	2.33E+03	0.00E+00
NI-63	8.21E+05	4.63E+04	2.80E+04	0.00E+00	0.00E+00	2.75E+05	6.33E+03	0.00E+00
CU-64	0.00E+00	1.99E+00	1.07E+00	0.00E+00	6.03E+00	9.58E+03	3.67E+04	0.00E+00
NI-65	2.99E+00	2.96E-01	1.64E-01	0.00E+00	0.00E+00	8.18E+03	8.40E+04	0.00E+00
ZN-65	4.26E+04	1.13E+05	7.03E+04	0.00E+00	7.14E+04	9.95E+05	1.63E+04	0.00E+00
ZN-69m	1.58E+01	2.69E+01	3.18E+00	0.00E+00	1.56E+01	2.72E+04	1.00E+05	0.00E+00
ZN-69	6.70E-02	9.66E-02	8.92E-03	0.00E+00	5.85E-02	1.42E+03	1.02E+04	0.00E+00
SE-79	0.00E+00	4.55E+03	9.62E+02	0.00E+00	6.33E+03	5.51E+05	1.27E+04	0.00E+00
BR-82	0.00E+00	0.00E+00	2.09E+04	0.00E+00	0.00E+00	0.00E+00	3.70E-15	0.00E+00
BR-83	0.00E+00	0.00E+00	4.74E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
BR-84	0.00E+00	0.00E+00	5.48E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
BR-85	0.00E+00	0.00E+00	2.53E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
RB-86	0.00E+00	1.98E+05	1.14E+05	0.00E+00	0.00E+00	0.00E+00	7.99E+03	0.00E+00
RB-87	0.00E+00	1.17E+05	5.07E+04	0.00E+00	0.00E+00	0.00E+00	1.10E+03	0.00E+00
RB-88	0.00E+00	5.62E+02	3.66E+02	0.00E+00	0.00E+00	0.00E+00	1.72E+01	0.00E+00
RB-89	0.00E+00	3.45E+02	2.90E+02	0.00E+00	0.00E+00	0.00E+00	1.89E+00	0.00E+00
SR-89	5.99E+05	0.00E+00	1.72E+04	0.00E+00	0.00E+00	2.16E+06	1.67E+05	0.00E+00
SR-90	1.01E+08	0.00E+00	6.44E+06	0.00E+00	0.00E+00	1.48E+07	3.43E+05	0.00E+00
Y-90	4.11E+03	0.00E+00	1.11E+02	0.00E+00	0.00E+00	2.62E+05	2.68E+05	0.00E+00
SR-91	1.21E+02	0.00E+00	4.59E+00	0.00E+00	0.00E+00	5.33E+04	1.74E+05	0.00E+00
Y-91m	5.07E-01	0.00E+00	1.84E-02	0.00E+00	0.00E+00	2.81E+03	1.72E+03	0.00E+00
Y-91	9.14E+05	0.00E+00	2.44E+04	0.00E+00	0.00E+00	2.63E+06	1.84E+05	0.00E+00

Table 4-30 (Page 2 of 4)

Child Inhalation  $R_i$  $\text{mrem}\cdot\text{m}^3/\text{yr}\cdot\mu\text{Ci}$ 

<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	1.31E+01	0.00E+00	5.25E-01	0.00E+00	0.00E+00	2.40E+04	2.42E+05	0.00E+00
Y-92	2.04E+01	0.00E+00	5.81E-01	0.00E+00	0.00E+00	2.39E+04	2.39E+05	0.00E+00
Y-93	1.87E+02	0.00E+00	5.11E+00	0.00E+00	0.00E+00	7.44E+04	3.89E+05	0.00E+00
NB-93m	4.70E+05	1.17E+05	3.85E+04	0.00E+00	1.26E+05	3.85E+05	9.07E+03	0.00E+00
NB-95	2.35E+04	9.18E+03	6.55E+03	0.00E+00	8.62E+03	6.14E+05	3.70E+04	0.00E+00
NB-97	4.29E-01	7.70E-02	3.60E-02	0.00E+00	8.55E-02	3.42E+03	2.78E+04	0.00E+00
ZR-93	7.66E+05	2.89E+05	2.05E+05	0.00E+00	1.11E+06	2.63E+06	5.44E+04	0.00E+00
ZR-95	1.90E+05	4.18E+04	3.70E+04	0.00E+00	5.96E+04	2.23E+06	6.11E+04	0.00E+00
ZR-97	1.88E+02	2.72E+01	1.60E+01	0.00E+00	3.89E+01	1.13E+05	3.51E+05	0.00E+00
MO-93	0.00E+00	1.39E+04	5.00E+02	0.00E+00	3.92E+03	6.29E+05	1.40E+04	0.00E+00
MO-99	0.00E+00	1.72E+02	4.26E+01	0.00E+00	3.92E+02	1.35E+05	1.27E+05	0.00E+00
TC-99	4.96E+02	5.51E+02	1.98E+02	0.00E+00	6.48E+03	1.25E+06	2.87E+04	0.00E+00
TC-99m	1.78E-03	3.48E-03	5.77E-02	0.00E+00	5.07E-02	9.51E+02	4.81E+03	0.00E+00
TC-101	8.10E-05	8.51E-05	1.08E-03	0.00E+00	1.45E-03	5.85E+02	1.63E+01	0.00E+00
RU-103	2.79E+03	0.00E+00	1.07E+03	0.00E+00	7.03E+03	6.62E+05	4.48E+04	0.00E+00
RU-105	1.53E+00	0.00E+00	5.55E-01	0.00E+00	1.34E+00	1.59E+04	9.95E+04	0.00E+00
RU-106	1.36E+05	0.00E+00	1.69E+04	0.00E+00	1.84E+05	1.43E+07	4.29E+05	0.00E+00
RH-105	1.45E+01	7.77E+00	6.62E+00	0.00E+00	3.10E+01	2.89E+04	4.92E+04	0.00E+00
PD-107	0.00E+00	9.81E+02	9.29E+01	0.00E+00	7.29E+03	1.17E+05	2.69E+03	0.00E+00
PD-109	0.00E+00	5.48E+00	1.83E+00	0.00E+00	2.61E+01	2.28E+04	9.58E+04	0.00E+00
AG-110m	1.69E+04	1.14E+04	9.14E+03	0.00E+00	2.12E+04	5.48E+06	1.00E+05	0.00E+00
AG-111	6.70E+02	2.10E+02	1.39E+02	0.00E+00	6.33E+02	2.86E+05	1.10E+05	0.00E+00
CD-113m	0.00E+00	1.82E+06	7.84E+04	0.00E+00	1.90E+06	2.57E+06	6.03E+04	0.00E+00
CD-115m	0.00E+00	2.92E+05	1.25E+04	0.00E+00	2.19E+05	2.17E+06	1.84E+05	0.00E+00
SN-123	4.77E+05	7.92E+03	1.55E+04	8.40E+03	0.00E+00	3.55E+06	1.50E+05	0.00E+00
SN-125	1.83E+04	3.68E+02	1.09E+03	3.81E+02	0.00E+00	8.99E+05	2.65E+05	0.00E+00
SN-126	2.31E+06	3.85E+04	8.73E+04	1.05E+04	0.00E+00	1.12E+07	6.03E+04	0.00E+00
SB-124	5.66E+06	7.40E+02	2.00E+04	1.26E+02	0.00E+00	3.24E+06	1.64E+05	0.00E+00
SB-125	9.84E+04	7.59E+02	1.99E+04	9.10E+01	0.00E+00	2.32E+06	4.03E+04	0.00E+00
SB-126	6.36E+03	9.69E+01	2.28E+03	3.70E+01	0.00E+00	1.06E+06	2.10E+05	0.00E+00
SB-127	5.03E+02	7.73E+00	1.74E+02	5.59E+00	0.00E+00	2.28E+05	1.41E+05	0.00E+00
TE-125m	6.73E+03	2.33E+03	9.14E+02	1.92E+03	0.00E+00	4.77E+05	3.38E+04	0.00E+00
TE-127m	2.49E+04	8.55E+03	3.02E+03	6.07E+03	6.36E+04	1.48E+06	7.14E+04	0.00E+00
TE-127	2.77E+00	9.51E-01	6.11E-01	1.96E+00	7.07E+00	1.00E+04	5.62E+04	0.00E+00
TE-129m	1.92E+04	6.85E+03	3.04E+03	6.33E+03	5.03E+04	1.76E+06	1.82E+05	0.00E+00
TE-129	9.77E-02	3.50E-02	2.38E-02	7.14E-02	2.57E-01	2.93E+03	2.55E+04	0.00E+00
TE-133m	1.08E-01	5.59E-02	5.55E-02	8.58E-02	3.74E-01	5.92E+03	1.76E+04	0.00E+00

Table 4-30 (Page 3 of 4)

Child Inhalation  $R_i$ mrem\*m<sup>3</sup>/yr\* $\mu$ 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	5.66E-02	3.26E-02	3.48E-02	4.59E-02	2.11E-01	4.55E+03	1.80E+03	0.00E+00
I-129	3.89E+04	2.37E+04	2.11E+04	1.58E+07	4.00E+04	0.00E+00	7.96E+02	0.00E+00
I-130	8.18E+03	1.64E+04	8.44E+03	1.85E+06	2.45E+04	0.00E+00	5.11E+03	0.00E+00
I-131	4.81E+04	4.81E+04	2.73E+04	1.62E+07	7.88E+04	0.00E+00	2.84E+03	0.00E+00
TE-131m	1.34E+02	5.92E+01	5.07E+01	9.77E+01	4.00E+02	2.06E+05	3.08E+05	0.00E+00
TE-131	2.17E-02	8.44E-03	6.59E-03	1.70E-02	5.88E-02	2.05E+03	1.33E+03	0.00E+00
I-132	2.12E+03	4.07E+03	1.88E+03	1.94E+05	6.25E+03	0.00E+00	3.20E+03	0.00E+00
TE-132	4.81E+02	2.72E+02	2.63E+02	3.18E+02	1.77E+03	3.77E+05	1.38E+05	0.00E+00
I-133	1.66E+04	2.03E+04	7.70E+03	3.85E+06	3.38E+04	0.00E+00	5.48E+03	0.00E+00
CS-134m	2.34E+02	3.30E+02	2.26E+02	0.00E+00	1.83E+02	3.09E+01	2.93E+02	0.00E+00
CS-134	6.51E+05	1.01E+06	2.25E+05	0.00E+00	3.30E+05	1.21E+05	3.85E+03	0.00E+00
I-134	1.17E+03	2.16E+03	9.95E+02	5.07E+04	3.30E+03	0.00E+00	9.55E+02	0.00E+00
I-135	4.92E+03	8.73E+03	4.14E+03	7.92E+05	1.34E+04	0.00E+00	4.44E+03	0.00E+00
CS-135	2.31E+05	1.53E+05	1.65E+04	0.00E+00	5.66E+04	1.93E+04	8.03E+02	0.00E+00
CS-136	6.51E+04	1.71E+05	1.16E+05	0.00E+00	9.55E+04	1.45E+04	4.18E+03	0.00E+00
CS-137	9.07E+05	8.25E+05	1.28E+05	0.00E+00	2.82E+05	1.04E+05	3.62E+03	0.00E+00
CS-138	6.33E+02	8.40E+02	5.55E+02	0.00E+00	6.22E+02	6.81E+01	2.70E+02	0.00E+00
CS-139	4.03E+02	4.26E+02	2.15E+02	0.00E+00	3.36E+02	3.46E+01	2.68E-02	0.00E+00
BA-139	1.84E+00	9.84E-04	5.37E-02	0.00E+00	8.62E-04	5.77E+03	5.77E+04	0.00E+00
BA-140	7.40E+04	6.48E+01	4.33E+03	0.00E+00	2.11E+01	1.74E+06	1.02E+05	0.00E+00
LA-140	6.44E+02	2.25E+02	7.55E+01	0.00E+00	0.00E+00	1.83E+05	2.26E+05	0.00E+00
BA-141	1.96E-01	1.09E-04	6.36E-03	0.00E+00	9.47E-05	2.92E+03	2.75E+02	0.00E+00
LA-141	8.47E+00	1.96E+00	4.26E-01	0.00E+00	0.00E+00	1.66E+04	1.62E+05	0.00E+00
CE-141	3.92E+04	1.95E+04	2.90E+03	0.00E+00	8.55E+03	5.44E+05	5.66E+04	0.00E+00
BA-142	5.00E-02	3.60E-05	2.79E-03	0.00E+00	2.91E-05	1.64E+03	2.74E+00	0.00E+00
LA-142	1.30E+00	4.11E-01	1.29E-01	0.00E+00	0.00E+00	8.70E+03	7.59E+04	0.00E+00
CE-143	3.66E+02	1.99E+02	2.88E+01	0.00E+00	8.36E+01	1.15E+05	1.27E+05	0.00E+00
PR-143	1.85E+04	5.55E+03	9.14E+02	0.00E+00	3.00E+03	4.33E+05	9.73E+04	0.00E+00
CE-144	6.77E+06	2.12E+06	3.62E+05	0.00E+00	1.17E+06	1.20E+07	3.89E+05	0.00E+00
PR-144	5.96E-02	1.85E-02	3.00E-03	0.00E+00	9.77E-03	1.57E+03	1.97E+02	0.00E+00
ND-147	1.08E+04	8.73E+03	6.81E+02	0.00E+00	4.81E+03	3.28E+05	8.21E+04	0.00E+00
PM-147	1.30E+06	9.32E+04	5.03E+04	0.00E+00	1.65E+05	8.14E+05	2.11E+04	0.00E+00
PM-148m	1.22E+05	2.42E+04	2.42E+04	0.00E+00	3.60E+04	2.12E+06	1.32E+05	0.00E+00
PM-148	5.96E+03	7.18E+02	4.63E+02	0.00E+00	1.22E+03	4.59E+05	2.22E+05	0.00E+00
PM-149	5.44E+02	5.77E+01	3.13E+01	0.00E+00	1.02E+02	8.88E+04	1.08E+05	0.00E+00
PM-151	1.32E+02	1.60E+01	1.04E+01	0.00E+00	2.72E+01	4.59E+04	9.55E+04	0.00E+00
SM-151	1.16E+06	1.76E+05	5.51E+04	0.00E+00	1.81E+05	5.48E+05	1.27E+04	0.00E+00

Table 4-30 (Page 4 of 4)

Child Inhalation  $R_i$ mrem\*m<sup>3</sup>/yr\* $\mu$ 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	2.68E+02	1.67E+02	1.61E+01	0.00E+00	5.07E+01	5.07E+04	6.92E+04	0.00E+00
EU-152	2.75E+06	5.07E+05	5.96E+05	0.00E+00	2.12E+06	3.33E+06	4.22E+04	0.00E+00
EU-154	1.01E+07	9.21E+05	8.40E+05	0.00E+00	4.03E+06	6.14E+06	1.10E+05	0.00E+00
EU-155	2.07E+06	1.50E+05	1.18E+05	0.00E+00	5.59E+05	1.03E+06	1.99E+05	0.00E+00
EU-156	2.92E+04	1.57E+04	3.24E+03	0.00E+00	1.01E+04	9.40E+05	1.57E+05	0.00E+00
TB-160	2.88E+05	0.00E+00	3.58E+04	0.00E+00	8.58E+04	1.98E+06	8.44E+04	0.00E+00
HO-166m	4.96E+06	1.04E+06	8.77E+05	0.00E+00	1.48E+06	4.18E+06	6.03E+04	0.00E+00
W-181	9.84E+01	2.41E+01	3.33E+00	0.00E+00	0.00E+00	2.11E+04	9.66E+02	0.00E+00
W-185	3.07E+03	7.70E+02	1.08E+02	0.00E+00	0.00E+00	6.88E+05	4.11E+04	0.00E+00
W-187	1.63E+01	9.66E+00	4.33E+00	0.00E+00	0.00E+00	4.11E+04	9.10E+04	0.00E+00
NP-239	4.66E+02	3.35E+01	2.35E+01	0.00E+00	9.73E+01	5.81E+04	6.40E+04	0.00E+00
U-232	8.10E+08	0.00E+00	5.77E+07	0.00E+00	6.18E+07	2.75E+09	1.60E+05	0.00E+00
U-233	1.72E+08	0.00E+00	1.04E+07	0.00E+00	2.82E+07	6.55E+08	1.48E+05	0.00E+00
U-234	1.65E+08	0.00E+00	1.02E+07	0.00E+00	2.76E+07	6.44E+08	1.45E+05	0.00E+00
U-235	1.58E+08	0.00E+00	9.58E+06	0.00E+00	2.59E+07	6.03E+08	1.84E+05	0.00E+00
U-236	1.58E+08	0.00E+00	9.81E+06	0.00E+00	2.65E+07	6.18E+08	1.36E+05	0.00E+00
U-237	5.81E+02	0.00E+00	1.54E+02	0.00E+00	1.68E+03	1.26E+05	4.77E+04	0.00E+00
U-238	1.51E+08	0.00E+00	8.95E+06	0.00E+00	2.42E+07	5.66E+08	1.30E+05	0.00E+00
NP-237	1.01E+10	5.99E+09	4.40E+08	0.00E+00	2.74E+09	6.44E+08	1.87E+05	0.00E+00
NP-238	4.66E+03	8.51E+02	7.29E+01	0.00E+00	3.02E+02	1.25E+05	9.25E+04	0.00E+00
PU-238	9.44E+09	5.92E+09	4.48E+08	0.00E+00	1.65E+09	2.25E+09	1.72E+05	0.00E+00
PU-239	1.03E+10	6.22E+09	4.74E+08	0.00E+00	1.77E+09	2.12E+09	1.57E+05	0.00E+00
PU-240	1.03E+10	6.22E+09	4.70E+08	0.00E+00	1.76E+09	2.11E+09	1.60E+05	0.00E+00
PU-241	2.94E+08	6.48E+07	1.08E+07	0.00E+00	4.07E+07	1.87E+06	3.29E+03	0.00E+00
PU-242	9.58E+09	5.99E+09	4.55E+08	0.00E+00	1.70E+09	2.04E+09	1.54E+05	0.00E+00
PU-244	1.12E+10	6.85E+09	5.22E+08	0.00E+00	1.95E+09	2.33E+09	2.29E+05	0.00E+00
AM-241	1.10E+10	6.81E+09	4.59E+08	0.00E+00	2.82E+09	7.47E+08	1.75E+05	0.00E+00
AM-242m	1.14E+10	6.51E+09	4.70E+08	0.00E+00	2.85E+09	3.01E+08	2.21E+05	0.00E+00
AM-243	1.09E+10	6.59E+09	4.44E+08	0.00E+00	2.75E+09	7.10E+08	2.05E+05	0.00E+00
CM-242	3.51E+08	2.10E+08	1.55E+07	0.00E+00	4.96E+07	4.85E+08	1.87E+05	0.00E+00
CM-243	8.58E+09	5.25E+09	3.68E+08	0.00E+00	1.38E+09	7.77E+08	1.84E+05	0.00E+00
CM-244	7.18E+09	4.37E+09	3.07E+08	0.00E+00	1.13E+09	7.47E+08	1.78E+05	0.00E+00
CM-245	1.13E+10	6.81E+09	4.74E+08	0.00E+00	1.86E+09	7.22E+08	1.66E+05	0.00E+00
CM-246	1.12E+10	6.81E+09	4.74E+08	0.00E+00	1.86E+09	7.36E+08	1.63E+05	0.00E+00
CM-247	1.09E+10	6.73E+09	4.66E+08	0.00E+00	1.83E+09	7.22E+08	2.15E+05	0.00E+00
CM-248	9.07E+10	5.55E+10	3.85E+09	0.00E+00	1.51E+10	5.96E+09	3.46E+06	0.00E+00
CF-252	8.07E+09	0.00E+00	3.45E+08	0.00E+00	0.00E+00	2.45E+09	6.81E+05	0.00E+00

Table 4-31 (Page 1 of 4)

Teen Inhalation R<sub>i</sub>mrem\*m<sup>3</sup>/yr\*μCi

Nuclide	Bone	Liver	T Body	Thyroid	Kidney	Lung	GI-LLI	Skin
H-3	0.00E+00	1.27E+03	1.27E+03	1.27E+03	1.27E+03	1.27E+03	1.27E+03	0.00E+00
C-14	2.60E+04	4.87E+03	4.87E+03	4.87E+03	4.87E+03	4.87E+03	4.87E+03	0.00E+00
NA-22	1.41E+05	1.41E+05	1.41E+05	1.41E+05	1.41E+05	1.41E+05	1.41E+05	0.00E+00
NA-24	1.38E+04	1.38E+04	1.38E+04	1.38E+04	1.38E+04	1.38E+04	1.38E+04	0.00E+00
P-32	1.89E+06	1.10E+05	7.16E+04	0.00E+00	0.00E+00	0.00E+00	9.28E+04	0.00E+00
CA-41	3.24E+05	0.00E+00	3.50E+04	0.00E+00	1.08E+06	8.08E+08	2.38E+05	0.00E+00
SC-46	5.79E+05	1.13E+06	3.34E+05	7.50E+01	3.07E+01	2.10E+04	3.00E+03	0.00E+00
CR-51	0.00E+00	0.00E+00	1.35E+02	7.50E+01	3.07E+01	2.10E+04	3.00E+03	0.00E+00
MN-54	0.00E+00	5.11E+04	8.40E+03	0.00E+00	1.27E+04	1.98E+06	6.68E+04	0.00E+00
FE-55	3.34E+04	2.38E+04	5.54E+03	0.00E+00	0.00E+00	1.24E+05	6.39E+03	0.00E+00
MN-56	0.00E+00	1.70E+00	2.52E-01	0.00E+00	1.79E+00	1.52E+04	5.74E+04	0.00E+00
CO-57	0.00E+00	9.44E+02	9.20E+02	0.00E+00	0.00E+00	5.86E+05	3.14E+04	0.00E+00
CO-58	0.00E+00	2.07E+03	2.78E+03	0.00E+00	0.00E+00	1.34E+06	9.52E+04	0.00E+00
FE-59	1.59E+04	3.70E+04	1.43E+04	0.00E+00	0.00E+00	1.53E+06	1.78E+05	0.00E+00
CO-60	0.00E+00	1.51E+04	1.98E+04	0.00E+00	0.00E+00	8.72E+06	2.59E+05	0.00E+00
NI-59	4.35E+04	1.62E+04	7.39E+03	0.00E+00	0.00E+00	1.13E+05	5.18E+03	0.00E+00
NI-63	5.80E+05	4.34E+04	1.98E+04	0.00E+00	0.00E+00	3.07E+05	1.42E+04	0.00E+00
CU-64	0.00E+00	2.03E+00	8.48E-01	0.00E+00	6.41E+00	1.11E+04	6.14E+04	0.00E+00
NI-65	2.18E+00	2.93E-01	1.27E-01	0.00E+00	0.00E+00	9.36E+03	3.67E+04	0.00E+00
ZN-65	3.86E+04	1.34E+05	6.24E+04	0.00E+00	8.64E+04	1.24E+06	4.66E+04	0.00E+00
ZN-69m	1.15E+01	2.47E+01	2.49E+00	0.00E+00	1.65E+01	3.14E+04	1.71E+05	0.00E+00
ZN-69	4.83E-02	9.20E-02	6.46E-03	0.00E+00	6.02E-02	1.58E+03	2.85E+02	0.00E+00
SE-79	0.00E+00	4.34E+03	6.97E+02	0.00E+00	6.50E+03	6.17E+05	2.82E+04	0.00E+00
BR-82	0.00E+00	0.00E+00	1.82E+04	0.00E+00	0.00E+00	0.00E+00	8.00E-15	0.00E+00
BR-83	0.00E+00	0.00E+00	3.44E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
BR-84	0.00E+00	0.00E+00	4.33E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
BR-85	0.00E+00	0.00E+00	1.83E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
RB-86	0.00E+00	1.90E+05	8.40E+04	0.00E+00	0.00E+00	0.00E+00	1.77E+04	0.00E+00
RB-87	0.00E+00	1.12E+05	3.66E+04	0.00E+00	0.00E+00	0.00E+00	2.44E+03	0.00E+00
RB-88	0.00E+00	5.46E+02	2.72E+02	0.00E+00	0.00E+00	0.00E+00	2.92E-05	0.00E+00
RB-89	0.00E+00	3.52E+02	2.33E+02	0.00E+00	0.00E+00	0.00E+00	3.38E-07	0.00E+00
SR-89	4.34E+05	0.00E+00	1.25E+04	0.00E+00	0.00E+00	2.42E+06	3.71E+05	0.00E+00
SR-90	1.08E+08	0.00E+00	6.68E+06	0.00E+00	0.00E+00	1.65E+07	7.65E+05	0.00E+00
Y-90	2.98E+03	0.00E+00	8.00E+01	0.00E+00	0.00E+00	2.93E+05	5.59E+05	0.00E+00
SR-91	8.80E+01	0.00E+00	3.51E+00	0.00E+00	0.00E+00	6.07E+04	2.59E+05	0.00E+00
Y-91m	3.70E-01	0.00E+00	1.42E-02	0.00E+00	0.00E+00	3.20E+03	3.02E+01	0.00E+00
Y-91	6.61E+05	0.00E+00	1.77E+04	0.00E+00	0.00E+00	2.94E+06	4.09E+05	0.00E+00

Table 4-31 (Page 2 of 4)

Teen Inhalation R<sub>i</sub>mrem\*m<sup>3</sup>/yr\*μCi

<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	9.52E+00	0.00E+00	4.06E-01	0.00E+00	0.00E+00	2.74E+04	1.19E+05	0.00E+00
Y-92	1.47E+01	0.00E+00	4.29E-01	0.00E+00	0.00E+00	2.68E+04	1.65E+05	0.00E+00
Y-93	1.35E+02	0.00E+00	3.72E+00	0.00E+00	0.00E+00	8.32E+04	5.79E+05	0.00E+00
NB-93m	3.31E+05	1.09E+05	2.73E+04	0.00E+00	1.27E+05	4.29E+05	2.02E+04	0.00E+00
NB-95	1.86E+04	1.03E+04	5.66E+03	0.00E+00	1.00E+04	7.51E+05	9.68E+04	0.00E+00
NB-97	3.14E-01	7.78E-02	2.84E-02	0.00E+00	9.12E-02	3.93E+03	2.17E+03	0.00E+00
ZR-93	5.46E+05	2.70E+05	1.47E+05	0.00E+00	9.28E+05	2.94E+06	1.28E+05	0.00E+00
ZR-95	1.46E+05	4.58E+04	3.15E+04	0.00E+00	6.74E+04	2.69E+06	1.49E+05	0.00E+00
ZR-97	1.38E+02	2.72E+01	1.26E+01	0.00E+00	4.12E+01	1.30E+05	6.30E+05	0.00E+00
MO-93	0.00E+00	1.33E+04	3.62E+02	0.00E+00	4.05E+03	7.05E+05	3.19E+04	0.00E+00
MO-99	0.00E+00	1.69E+02	3.22E+01	0.00E+00	4.11E+02	1.54E+05	2.69E+05	0.00E+00
TC-99	3.58E+02	5.26E+02	1.43E+02	0.00E+00	6.68E+03	1.39E+06	6.39E+04	0.00E+00
TC-99m	1.38E-03	3.86E-03	4.99E-02	0.00E+00	5.76E-02	1.15E+03	6.13E+03	0.00E+00
TC-101	5.92E-05	8.40E-05	8.24E-04	0.00E+00	1.52E-03	6.67E+02	8.72E-07	0.00E+00
RU-103	2.10E+03	0.00E+00	8.96E+02	0.00E+00	7.43E+03	7.83E+05	1.09E+05	0.00E+00
RU-105	1.12E+00	0.00E+00	4.34E-01	0.00E+00	1.41E+00	1.82E+04	9.04E+04	0.00E+00
RU-106	9.84E+04	0.00E+00	1.24E+04	0.00E+00	1.90E+05	1.61E+07	9.60E+05	0.00E+00
RH-105	1.06E+01	7.58E+00	4.99E+00	0.00E+00	3.23E+01	3.27E+04	9.84E+04	0.00E+00
PD-107	0.00E+00	9.36E+02	6.71E+01	0.00E+00	7.51E+03	1.30E+05	5.99E+03	0.00E+00
PD-109	0.00E+00	5.25E+00	1.33E+00	0.00E+00	2.69E+01	2.55E+04	1.57E+05	0.00E+00
AG-110m	1.38E+04	1.31E+04	7.99E+03	0.00E+00	2.50E+04	6.75E+06	2.73E+05	0.00E+00
AG-111	4.86E+02	2.02E+02	1.02E+02	0.00E+00	6.54E+02	3.20E+05	2.40E+05	0.00E+00
CD-113m	0.00E+00	1.74E+06	5.68E+04	0.00E+00	1.94E+06	2.87E+06	1.34E+05	0.00E+00
CD-115m	0.00E+00	2.78E+05	9.12E+03	0.00E+00	2.26E+05	2.42E+06	4.08E+05	0.00E+00
SN-123	3.45E+05	7.55E+03	1.12E+04	6.04E+03	0.00E+00	3.97E+05	3.33E+05	0.00E+00
SN-125	1.33E+04	3.54E+02	7.99E+02	2.76E+02	0.00E+00	1.01E+06	5.83E+05	0.00E+00
SN-126	1.74E+06	4.31E+04	6.59E+04	1.14E+04	0.00E+00	1.38E+07	1.34E+05	0.00E+00
SB-124	4.30E+04	7.94E+02	1.68E+04	9.76E+01	0.00E+00	3.85E+06	3.98E+05	0.00E+00
SB-125	7.38E+04	8.08E+02	1.72E+04	7.04E+01	0.00E+00	2.74E+06	9.92E+04	0.00E+00
SB-126	4.95E+03	1.02E+02	1.78E+03	2.80E+01	0.00E+00	1.24E+06	4.81E+05	0.00E+00
SB-127	3.71E+02	7.94E+00	1.40E+02	4.17E+00	0.00E+00	2.65E+05	3.15E+05	0.00E+00
TE-125m	4.88E+03	2.24E+03	6.67E+02	1.40E+03	0.00E+00	5.36E+05	7.50E+04	0.00E+00
TE-127m	1.80E+04	8.16E+03	2.18E+03	4.38E+03	6.54E+04	1.66E+06	1.59E+05	0.00E+00
TE-127	2.01E+00	9.12E-01	4.42E-01	1.42E+00	7.28E+00	1.12E+04	8.08E+04	0.00E+00
TE-129m	1.39E+04	6.58E+03	2.25E+03	4.58E+03	5.19E+04	1.98E+06	4.05E+05	0.00E+00
TE-129	7.10E-02	3.38E-02	1.76E-02	5.18E-02	2.66E-01	3.30E+03	1.62E+03	0.00E+00
TE-133m	8.08E-02	5.86E-02	4.57E-02	6.54E-02	2.46E-01	6.97E+03	9.84E+02	0.00E+00

Table 4-31 (Page 3 of 4)

Teen Inhalation  $R_i$  $\text{mrem}\cdot\text{m}^3/\text{yr}\cdot\mu\text{Ci}$ 

<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	4.25E-02	3.48E-02	2.91E-02	3.57E-02	2.33E-01	5.38E+03	1.10E+01	0.00E+00
I-129	2.82E+04	2.35E+04	7.12E+04	2.93E+07	4.21E+04	0.00E+00	1.83E+03	0.00E+00
I-130	6.24E+03	1.79E+04	7.17E+03	1.49E+06	2.75E+04	0.00E+00	9.12E+03	0.00E+00
I-131	3.54E+04	4.91E+04	2.64E+04	1.46E+07	8.40E+04	0.00E+00	6.49E+03	0.00E+00
TE-131m	9.84E+01	6.01E+01	4.02E+01	7.25E+01	4.39E+02	2.38E+05	6.21E+05	0.00E+00
TE-131	1.58E-02	8.32E-03	5.04E-03	1.24E-02	6.18E-02	2.34E+03	1.51E+01	0.00E+00
I-132	1.59E+03	4.38E+03	1.58E+03	1.51E+05	6.92E+03	0.00E+00	1.27E+03	0.00E+00
TE-132	3.60E+02	2.90E+02	2.19E+02	2.46E+02	1.95E+03	4.49E+05	4.63E+05	0.00E+00
I-133	1.22E+04	2.05E+04	6.22E+03	2.92E+06	3.59E+04	0.00E+00	1.03E+04	0.00E+00
CS-134m	1.76E+02	3.48E+02	1.88E+02	0.00E+00	2.03E+02	3.65E+01	1.62E+02	0.00E+00
CS-134	5.02E+05	1.13E+06	5.49E+05	0.00E+00	3.75E+05	1.46E+05	9.76E+03	0.00E+00
I-134	8.88E+02	2.32E+03	8.40E+02	3.95E+04	3.66E+03	0.00E+00	2.04E+01	0.00E+00
I-135	3.70E+03	9.44E+03	3.49E+03	6.21E+05	1.49E+04	0.00E+00	6.95E+03	0.00E+00
CS-135	1.66E+05	1.46E+05	3.58E+04	0.00E+00	5.84E+04	2.16E+04	1.78E+03	0.00E+00
CS-136	5.15E+04	1.94E+05	1.37E+05	0.00E+00	1.10E+05	1.78E+04	1.09E+04	0.00E+00
CS-137	6.70E+05	8.48E+05	3.11E+05	0.00E+00	3.04E+05	1.21E+05	8.48E+03	0.00E+00
CS-138	4.66E+02	8.56E+02	4.46E+02	0.00E+00	6.62E+02	7.87E+01	2.70E-01	0.00E+00
CS-139	2.92E+02	4.10E+02	1.58E+02	0.00E+00	3.47E+02	3.89E+01	1.33E-13	0.00E+00
BA-139	1.34E+00	9.44E-04	3.90E-02	0.00E+00	8.88E-04	6.46E+03	6.45E+03	0.00E+00
BA-140	5.47E+04	6.70E+01	3.52E+03	0.00E+00	2.28E+01	2.03E+06	2.29E+05	0.00E+00
LA-140	4.79E+02	2.36E+02	6.26E+01	0.00E+00	0.00E+00	2.14E+05	4.87E+05	0.00E+00
BA-141	1.42E-01	1.06E-04	4.74E-03	0.00E+00	9.84E-05	3.29E+03	7.46E-04	0.00E+00
LA-141	6.10E+00	1.88E+00	3.10E-01	0.00E+00	0.00E+00	1.85E+04	1.23E+05	0.00E+00
CE-141	2.84E+04	1.90E+04	2.17E+03	0.00E+00	8.88E+03	6.14E+05	1.26E+05	0.00E+00
BA-142	3.70E-02	3.70E-05	2.27E-03	0.00E+00	3.14E-05	1.91E+03	4.79E-10	0.00E+00
LA-142	9.60E-01	4.25E-01	1.06E-01	0.00E+00	0.00E+00	1.02E+04	1.20E+04	0.00E+00
CE-143	2.66E+02	1.94E+02	2.16E+01	0.00E+00	8.64E+01	1.30E+05	2.55E+05	0.00E+00
PR-143	1.34E+04	5.31E+03	6.62E+02	0.00E+00	3.09E+03	4.83E+05	2.14E+05	0.00E+00
CE-144	4.89E+06	2.02E+06	2.62E+05	0.00E+00	1.21E+06	1.34E+07	8.64E+05	0.00E+00
PR-144	4.30E-02	1.76E-02	2.18E-03	0.00E+00	1.01E-02	1.75E+03	2.35E-04	0.00E+00
ND-147	7.86E+03	8.56E+03	5.13E+02	0.00E+00	5.02E+03	3.72E+05	1.82E+05	0.00E+00
PM-147	9.20E+05	8.80E+04	3.60E+04	0.00E+00	1.68E+05	9.12E+05	4.70E+04	0.00E+00
PM-148m	1.06E+05	2.68E+04	2.10E+04	0.00E+00	4.06E+04	2.56E+06	3.28E+05	0.00E+00
PM-148	4.35E+03	7.10E+02	3.58E+02	0.00E+00	1.28E+03	5.22E+05	4.91E+05	0.00E+00
PM-149	3.93E+02	5.51E+01	2.27E+01	0.00E+00	1.05E+02	9.92E+04	2.23E+05	0.00E+00
PM-151	9.60E+01	1.59E+01	8.08E+00	0.00E+00	2.86E+01	4.52E+04	1.82E+05	0.00E+00
SM-151	8.56E+05	1.68E+05	3.89E+04	0.00E+00	1.82E+05	6.14E+05	2.82E+04	0.00E+00



Table 4-31 (Page 4 of 4)

Teen Inhalation R<sub>i</sub>mrem\*m<sup>3</sup>/yr\*μCi

<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	1.94E+02	1.61E+02	1.18E+01	0.00E+00	5.25E+01	5.69E+04	1.42E+05	0.00E+00
EU-152	2.37E+06	5.75E+05	5.04E+05	0.00E+00	2.67E+06	4.01E+06	1.08E+05	0.00E+00
EU-154	7.54E+06	9.84E+05	6.88E+05	0.00E+00	4.35E+06	7.30E+06	2.67E+05	0.00E+00
EU-155	1.60E+06	1.57E+05	9.68E+04	0.00E+00	6.12E+05	1.21E+07	4.78E+05	0.00E+00
EU-156	2.16E+04	1.62E+04	2.64E+03	0.00E+00	1.09E+04	1.10E+06	3.65E+05	0.00E+00
TB-160	2.43E+05	0.00E+00	3.03E+04	0.00E+00	9.60E+04	3.18E+06	2.08E+05	0.00E+00
HO-166m	3.52E+06	1.25E+06	7.90E+05	0.00E+00	1.60E+06	4.99E+06	1.34E+05	0.00E+00
W-181	7.12E+01	2.30E+01	2.41E+00	0.00E+00	0.00E+00	2.36E+04	2.15E+03	0.00E+00
W-185	2.22E+03	7.34E+02	7.78E+01	0.00E+00	0.00E+00	7.68E+05	9.12E+04	0.00E+00
W-187	1.20E+01	9.76E+00	3.43E+00	0.00E+00	0.00E+00	4.74E+04	1.77E+05	0.00E+00
NP-239	3.38E+02	3.19E+01	1.77E+01	0.00E+00	1.00E+02	6.49E+04	1.32E+05	0.00E+00
U-232	5.85E+08	0.00E+00	4.18E+07	0.00E+00	6.35E+07	3.07E+09	3.57E+05	0.00E+00
U-233	1.24E+08	0.00E+00	7.54E+06	0.00E+00	2.90E+07	7.34E+08	3.30E+05	0.00E+00
U-234	1.18E+08	0.00E+00	7.38E+06	0.00E+00	2.84E+07	7.19E+08	3.23E+05	0.00E+00
U-235	1.14E+08	0.00E+00	6.94E+06	0.00E+00	2.67E+07	6.75E+08	4.10E+05	0.00E+00
U-236	1.14E+08	0.00E+00	7.09E+06	0.00E+00	2.73E+07	6.90E+08	3.03E+05	0.00E+00
U-237	4.20E+02	0.00E+00	1.12E+02	0.00E+00	1.73E+03	1.41E+05	1.03E+05	0.00E+00
U-238	1.09E+08	0.00E+00	6.48E+06	0.00E+00	2.50E+07	6.31E+08	2.90E+05	0.00E+00
NP-237	1.31E+10	8.48E+09	5.77E+08	0.00E+00	4.28E+09	7.19E+08	4.18E+05	0.00E+00
NP-238	3.38E+03	8.16E+02	5.27E+01	0.00E+00	3.10E+02	1.40E+05	1.90E+05	0.00E+00
PU-238	1.20E+10	8.24E+09	5.78E+08	0.00E+00	2.48E+09	2.50E+09	3.83E+05	0.00E+00
PU-239	1.38E+10	8.96E+09	6.44E+08	0.00E+00	2.75E+09	2.34E+09	3.50E+05	0.00E+00
PU-240	1.38E+10	8.96E+09	6.43E+08	0.00E+00	2.74E+09	2.34E+09	3.57E+05	0.00E+00
PU-241	2.99E+08	7.65E+07	1.12E+07	0.00E+00	5.18E+07	2.08E+06	7.34E+03	0.00E+00
PU-242	1.28E+10	8.64E+09	6.20E+08	0.00E+00	2.65E+09	2.26E+09	3.43E+05	0.00E+00
PU-244	1.50E+10	9.92E+09	7.10E+08	0.00E+00	3.03E+09	2.58E+09	5.11E+05	0.00E+00
AM-241	1.42E+10	9.60E+09	5.68E+08	0.00E+00	4.26E+09	8.40E+08	3.90E+05	0.00E+00
AM-242m	1.43E+10	9.04E+09	5.72E+08	0.00E+00	4.24E+09	3.37E+08	4.91E+05	0.00E+00
AM-243	1.42E+10	9.36E+09	5.56E+08	0.00E+00	4.17E+09	7.93E+08	4.58E+05	0.00E+00
CM-242	2.54E+08	2.01E+08	1.13E+07	0.00E+00	5.12E+07	5.41E+08	4.17E+05	0.00E+00
CM-243	9.52E+09	6.64E+09	4.00E+08	0.00E+00	1.87E+09	8.72E+08	4.10E+05	0.00E+00
CM-244	7.35E+09	5.22E+09	3.10E+08	0.00E+00	1.45E+09	8.40E+08	3.97E+05	0.00E+00
CM-245	1.46E+10	9.76E+09	6.02E+08	0.00E+00	2.82E+09	8.08E+08	3.70E+05	0.00E+00
CM-246	1.45E+10	9.76E+09	6.02E+08	0.00E+00	2.81E+09	8.24E+08	3.63E+05	0.00E+00
CM-247	1.42E+10	9.52E+09	5.93E+08	0.00E+00	2.77E+09	8.08E+08	4.78E+05	0.00E+00
CM-248	1.18E+11	7.86E+10	4.89E+09	0.00E+00	2.28E+10	6.66E+09	7.70E+06	0.00E+00
CF-252	5.73E+09	0.00E+00	2.46E+08	0.00E+00	0.00E+00	2.74E+09	1.51E+06	0.00E+00

Table 4-32 (Page 1 of 4)

Adult Inhalation  $R_i$  $\text{mrem}\cdot\text{m}^3/\text{yr}\cdot\mu\text{Ci}$ 

<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	1.26E+03	1.26E+03	1.26E+03	1.26E+03	1.26E+03	1.26E+03	0.00E+00
C-14	1.82E+04	3.41E+03	3.41E+03	3.41E+03	3.41E+03	3.41E+03	3.41E+03	0.00E+00
NA-22	1.04E+05	1.04E+05	1.04E+05	1.04E+05	1.04E+05	1.04E+05	1.04E+05	0.00E+00
NA-24	1.02E+04	1.02E+04	1.02E+04	1.02E+04	1.02E+04	1.02E+04	1.02E+04	0.00E+00
P-32	1.32E+06	7.71E+04	5.01E+04	0.00E+00	0.00E+00	0.00E+00	8.64E+04	0.00E+00
CA-41	3.06E+05	0.00E+00	3.30E+04	0.00E+00	0.00E+00	3.06E+04	2.29E+03	0.00E+00
SC-46	4.41E+05	8.56E+05	2.49E+05	0.00E+00	7.99E+05	0.00E+00	2.58E+05	0.00E+00
CR-51	0.00E+00	0.00E+00	1.00E+02	5.95E+01	2.28E+01	1.44E+04	3.32E+03	0.00E+00
MN-54	0.00E+00	3.96E+04	6.30E+03	0.00E+00	9.84E+03	1.40E+06	7.74E+04	0.00E+00
FE-55	2.46E+04	1.70E+04	3.94E+03	0.00E+00	0.00E+00	7.21E+04	6.03E+03	0.00E+00
MN-56	0.00E+00	1.24E+00	1.83E-01	0.00E+00	1.30E+00	9.44E+03	2.02E+04	0.00E+00
CO-57	0.00E+00	6.92E+02	6.71E+02	0.00E+00	0.00E+00	3.70E+05	3.14E+04	0.00E+00
CO-58	0.00E+00	1.58E+03	2.07E+03	0.00E+00	0.00E+00	9.28E+05	1.06E+05	0.00E+00
FE-59	1.18E+04	2.78E+04	1.06E+04	0.00E+00	0.00E+00	1.02E+06	1.88E+05	0.00E+00
CO-60	0.00E+00	1.15E+04	1.48E+04	0.00E+00	0.00E+00	5.97E+06	2.85E+05	0.00E+00
NI-59	3.25E+04	1.17E+04	5.42E+03	0.00E+00	0.00E+00	6.56E+04	4.89E+03	0.00E+00
NI-63	4.32E+05	3.14E+04	1.45E+04	0.00E+00	0.00E+00	1.78E+05	1.34E+04	0.00E+00
CU-64	0.00E+00	1.46E+00	6.15E-01	0.00E+00	4.62E+00	6.78E+03	4.90E+04	0.00E+00
NI-65	1.54E+00	2.10E-01	9.12E-02	0.00E+00	0.00E+00	5.60E+03	1.23E+04	0.00E+00
ZN-65	3.24E+04	1.03E+05	4.66E+04	0.00E+00	6.90E+04	8.64E+05	5.34E+04	0.00E+00
ZN-69m	8.16E+00	1.96E+01	1.79E+00	0.00E+00	1.18E+01	1.90E+04	1.37E+05	0.00E+00
ZN-69	3.38E-02	6.51E-02	4.52E-03	0.00E+00	4.22E-02	9.20E+02	1.63E+01	0.00E+00
SE-79	0.00E+00	3.06E+03	4.87E+02	0.00E+00	4.55E+03	3.58E+05	2.66E+04	0.00E+00
BR-82	0.00E+00	0.00E+00	1.35E+04	0.00E+00	0.00E+00	0.00E+00	1.04E+04	0.00E+00
BR-83	0.00E+00	0.00E+00	2.41E+02	0.00E+00	0.00E+00	0.00E+00	2.32E+02	0.00E+00
BR-84	0.00E+00	0.00E+00	3.13E+02	0.00E+00	0.00E+00	0.00E+00	1.64E-03	0.00E+00
BR-85	0.00E+00	0.00E+00	1.28E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
RB-86	0.00E+00	1.35E+05	5.90E+04	0.00E+00	0.00E+00	0.00E+00	1.66E+04	0.00E+00
RB-87	0.00E+00	3.87E+02	2.57E+04	0.00E+00	0.00E+00	0.00E+00	2.30E+03	0.00E+00
RB-88	0.00E+00	3.87E+02	1.93E+02	0.00E+00	0.00E+00	0.00E+00	3.34E-09	0.00E+00
RB-89	0.00E+00	2.56E+02	1.70E+02	0.00E+00	0.00E+00	0.00E+00	9.28E-12	0.00E+00
SR-89	3.04E+05	0.00E+00	8.72E+03	0.00E+00	0.00E+00	1.40E+06	3.50E+05	0.00E+00
SR-90	9.92E+07	0.00E+00	6.10E+06	0.00E+00	0.00E+00	9.60E+06	7.22E+05	0.00E+00
Y-90	2.09E+03	0.00E+00	5.61E+01	0.00E+00	0.00E+00	1.70E+05	5.06E+05	0.00E+00
SR-91	6.19E+01	0.00E+00	2.50E+00	0.00E+00	0.00E+00	3.65E+04	1.91E+05	0.00E+00
Y-91m	2.61E-01	0.00E+00	1.02E-02	0.00E+00	0.00E+00	1.92E+03	1.33E+00	0.00E+00
Y-91	4.62E+05	0.00E+00	1.24E+04	0.00E+00	0.00E+00	1.70E+06	3.85E+05	0.00E+00

Table 4-32 (Page 2 of 4)

Adult Inhalation  $R_i$  $\text{mrem}\cdot\text{m}^3/\text{yr}\cdot\mu\text{Ci}$ 

<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	6.74E+00	0.00E+00	2.91E-01	0.00E+00	0.00E+00	1.65E+04	4.30E+04	0.00E+00
Y-92	1.03E+01	0.00E+00	3.02E-01	0.00E+00	0.00E+00	1.57E+04	7.35E+04	0.00E+00
Y-93	9.44E+01	0.00E+00	2.61E+00	0.00E+00	0.00E+00	4.85E+04	4.22E+05	0.00E+00
NB-93m	2.48E+05	8.08E+04	1.99E+04	0.00E+00	9.28E+04	2.49E+05	1.90E+04	0.00E+00
NB-95	1.41E+04	7.82E+03	4.21E+03	0.00E+00	7.74E+03	5.05E+05	1.04E+05	0.00E+00
NB-97	2.22E-01	5.62E-02	2.05E-02	0.00E+00	6.54E-02	2.40E+03	2.42E+02	0.00E+00
ZR-93	4.18E+05	2.34E+04	1.10E+04	0.00E+00	8.88E+04	1.70E+05	1.21E+04	0.00E+00
ZR-95	1.07E+05	3.44E+04	2.33E+04	0.00E+00	5.42E+04	1.77E+06	1.50E+05	0.00E+00
ZR-97	9.68E+01	1.96E+01	9.04E+00	0.00E+00	2.97E+01	7.87E+04	5.23E+05	0.00E+00
MO-93	0.00E+00	9.36E+03	2.54E+02	0.00E+00	2.84E+03	4.09E+05	3.03E+04	0.00E+00
MO-99	0.00E+00	1.21E+02	2.30E+01	0.00E+00	2.91E+02	9.12E+04	2.48E+05	0.00E+00
TC-99	2.50E+02	3.71E+02	1.00E+02	0.00E+00	4.68E+03	8.08E+05	6.03E+04	0.00E+00
TC-99m	1.03E-03	2.91E-03	3.70E-02	0.00E+00	4.42E-02	7.64E+02	4.16E+03	0.00E+00
TC-101	4.18E-05	6.02E-05	5.90E-04	0.00E+00	1.08E-03	3.99E+02	1.09E-11	0.00E+00
RU-103	1.53E+03	0.00E+00	6.58E+02	0.00E+00	5.83E+03	5.05E+05	1.10E+05	0.00E+00
RU-105	7.90E-01	0.00E+00	3.11E-01	0.00E+00	1.02E+00	1.10E+04	4.82E+04	0.00E+00
RU-106	6.91E+04	0.00E+00	8.72E+03	0.00E+00	1.34E+05	9.36E+06	9.12E+05	0.00E+00
RH-105	7.39E+00	5.38E+00	3.54E+00	0.00E+00	2.29E+01	1.93E+04	8.72E+04	0.00E+00
PD-107	0.00E+00	6.62E+02	4.70E+01	0.00E+00	5.26E+03	7.58E+04	5.65E+03	0.00E+00
PD-109	0.00E+00	3.70E+00	9.28E-01	0.00E+00	1.88E+01	1.48E+04	1.22E+05	0.00E+00
AG-110m	1.08E+04	1.00E+04	5.94E+03	0.00E+00	1.97E+04	4.63E+06	3.02E+05	0.00E+00
AG-111	3.40E+02	1.42E+02	7.10E+01	0.00E+00	4.59E+02	1.86E+05	2.23E+05	0.00E+00
CD-113m	0.00E+00	1.23E+06	3.98E+04	0.00E+00	1.37E+06	1.66E+06	1.27E+05	0.00E+00
CD-115m	0.00E+00	1.97E+05	6.36E+03	0.00E+00	1.58E+05	1.41E+06	3.84E+05	0.00E+00
SN-123	2.42E+05	5.34E+03	7.86E+03	4.54E+03	0.00E+00	2.30E+06	3.14E+05	0.00E+00
SN-125	9.28E+03	2.50E+02	5.62E+02	2.07E+02	0.00E+00	5.90E+05	5.45E+05	0.00E+00
SN-126	1.26E+06	3.34E+04	4.80E+04	9.84E+03	0.00E+00	9.36E+06	1.27E+05	0.00E+00
SB-124	3.12E+04	5.89E+02	1.22E+04	7.55E+01	0.00E+00	2.48E+06	4.06E+05	0.00E+00
SB-125	5.34E+04	5.95E+02	1.26E+04	5.40E+01	0.00E+00	1.74E+06	1.01E+05	0.00E+00
SB-126	3.60E+03	7.30E+01	1.30E+03	2.20E+01	0.00E+00	7.66E+05	4.81E+05	0.00E+00
SB-127	2.64E+02	5.78E+00	1.02E+02	3.18E+00	0.00E+00	1.64E+05	3.02E+05	0.00E+00
TE-125m	3.42E+03	1.58E+03	4.67E+02	1.05E+03	1.24E+04	3.14E+05	7.06E+04	0.00E+00
TE-127m	1.26E+04	5.77E+03	1.57E+03	3.29E+03	4.58E+04	9.60E+05	1.50E+05	0.00E+00
TE-127	1.40E+00	6.42E-01	3.10E-01	1.06E+00	5.10E+00	6.51E+03	5.74E+04	0.00E+00
TE-129m	9.76E+03	4.67E+03	1.58E+03	3.44E+03	3.66E+04	1.16E+06	3.83E+05	0.00E+00
TE-129	4.98E-02	2.39E-02	1.24E-02	3.90E-02	1.87E-01	1.94E+03	1.57E+02	0.00E+00
TE-133m	5.79E-02	4.32E-02	3.34E-02	5.02E-02	2.99E-01	4.41E+03	4.39E+02	0.00E+00

Table 4-32 (Page 3 of 4)

Adult Inhalation R<sub>i</sub>mrem\*m<sup>3</sup>/yr\*μCi

<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	3.07E-02	2.58E-02	1.26E-02	2.75E-02	1.74E-01	3.47E+03	2.38E-01	0.00E+00
I-129	1.98E+04	1.69E+04	5.53E+04	4.43E+07	3.62E+04	0.00E+00	1.78E+03	0.00E+00
I-130	4.58E+03	1.34E+04	5.28E+03	1.14E+06	2.09E+04	0.00E+00	7.69E+03	0.00E+00
I-131	2.52E+04	3.58E+04	2.05E+04	1.19E+07	6.13E+04	0.00E+00	6.28E+03	0.00E+00
TE-131m	6.99E+01	4.36E+01	2.90E+01	5.50E+01	3.09E+02	1.46E+05	5.56E+05	0.00E+00
TE-131	1.11E-02	5.95E-03	3.59E-03	9.36E-03	4.37E-02	1.39E+03	1.84E+01	0.00E+00
I-132	1.16E+03	3.26E+03	1.16E+03	1.14E+05	5.18E+03	0.00E+00	4.06E+02	0.00E+00
TE-132	2.60E+02	2.15E+02	1.62E+02	1.90E+02	1.46E+03	2.88E+05	5.10E+05	0.00E+00
I-133	8.64E+03	1.48E+04	4.52E+03	2.15E+06	2.58E+04	0.00E+00	8.88E+03	0.00E+00
CS-134m	1.27E+02	2.56E+02	1.38E+02	0.00E+00	1.46E+02	2.34E+01	6.34E+01	0.00E+00
CS-134	3.73E+05	8.48E+05	7.28E+05	0.00E+00	2.87E+05	9.76E+04	1.04E+04	0.00E+00
I-134	6.44E+02	1.73E+03	6.15E+02	2.98E+04	2.75E+03	0.00E+00	1.01E+00	0.00E+00
I-135	2.68E+03	6.98E+03	2.57E+03	4.48E+05	1.11E+04	0.00E+00	5.25E+03	0.00E+00
CS-135	1.17E+05	1.03E+05	4.79E+04	0.00E+00	4.09E+04	1.26E+04	1.69E+03	0.00E+00
CS-136	3.90E+04	1.46E+05	1.10E+05	0.00E+00	8.56E+04	1.20E+04	1.17E+04	0.00E+00
CS-137	4.78E+05	6.21E+05	4.28E+05	0.00E+00	2.22E+05	7.52E+04	8.40E+03	0.00E+00
CS-138	3.31E+02	6.21E+02	3.24E+02	0.00E+00	4.80E+02	4.86E+01	1.86E-03	0.00E+00
CS-139	2.05E+02	2.90E+02	1.11E+02	0.00E+00	2.44E+02	2.27E+01	4.39E-21	0.00E+00
BA-139	9.36E-01	6.66E-04	2.74E-02	0.00E+00	6.22E-04	3.76E+03	8.96E+02	0.00E+00
BA-140	3.90E+04	4.90E+01	2.57E+03	0.00E+00	1.67E+01	1.27E+06	2.18E+05	0.00E+00
LA-140	3.44E+02	1.74E+02	4.58E+01	0.00E+00	0.00E+00	1.36E+05	4.58E+05	0.00E+00
BA-141	1.00E-01	7.53E-05	3.36E-03	0.00E+00	7.00E-05	1.94E+03	1.16E-07	0.00E+00
LA-141	4.27E+00	1.33E+00	2.17E-01	0.00E+00	0.00E+00	1.08E+04	5.85E+04	0.00E+00
CE-141	1.99E+04	1.35E+04	1.53E+03	0.00E+00	6.26E+03	3.62E+05	1.20E+05	0.00E+00
BA-142	2.63E-02	2.70E-05	1.66E-03	0.00E+00	2.29E-05	1.19E+03	1.57E-16	0.00E+00
LA-142	6.83E-01	3.10E-01	7.72E-02	0.00E+00	0.00E+00	6.33E+03	2.11E+03	0.00E+00
CE-143	1.86E+02	1.38E+02	1.53E+01	0.00E+00	6.08E+01	7.98E+04	2.26E+05	0.00E+00
PR-143	9.36E+03	3.75E+03	4.64E+02	0.00E+00	2.16E+03	2.81E+05	2.00E+05	0.00E+00
CE-144	3.43E+06	1.43E+06	1.84E+05	0.00E+00	8.48E+05	7.78E+06	8.16E+05	0.00E+00
PR-144	3.01E-02	1.25E-02	1.53E-03	0.00E+00	7.05E-03	1.02E+03	2.15E-08	0.00E+00
ND-147	5.27E+03	6.10E+03	3.65E+02	0.00E+00	3.56E+03	2.21E+05	1.73E+05	0.00E+00
PM-147	6.70E+05	6.30E+04	2.55E+04	0.00E+00	1.19E+05	5.28E+05	4.43E+04	0.00E+00
PM-148m	7.86E+04	2.03E+04	1.55E+04	0.00E+00	3.08E+04	1.71E+06	3.34E+05	0.00E+00
PM-148	3.07E+03	5.10E+02	2.56E+02	0.00E+00	9.60E+02	3.13E+05	4.64E+05	0.00E+00
PM-149	2.75E+02	3.90E+01	1.59E+01	0.00E+00	7.35E+01	5.77E+04	2.00E+05	0.00E+00
PM-151	6.80E+01	1.14E+01	5.77E+00	0.00E+00	2.04E+01	3.15E+04	1.60E+05	0.00E+00
SM-151	6.87E+05	1.18E+05	2.84E+04	0.00E+00	1.33E+05	3.56E+05	2.60E+04	0.00E+00

Table 4-32 (Page 4 of 4)

Adult Inhalation R<sub>i</sub>mrem\*m<sup>3</sup>/yr\*μCi

<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	1.36E+02	1.14E+02	8.32E+00	0.00E+00	3.67E+01	3.31E+04	1.26E+05	0.00E+00
EU-152	1.90E+06	4.33E+05	3.81E+05	0.00E+00	2.68E+06	2.74E+06	1.27E+05	0.00E+00
EU-154	5.92E+06	7.28E+05	5.18E+05	0.00E+00	3.49E+06	4.67E+06	2.72E+05	0.00E+00
EU-155	8.08E+05	1.14E+05	7.37E+04	0.00E+00	5.27E+05	7.57E+05	4.76E+04	0.00E+00
EU-156	1.54E+04	1.18E+04	1.92E+03	0.00E+00	7.96E+03	6.85E+05	3.60E+05	0.00E+00
TB-160	1.77E+05	0.00E+00	2.20E+04	0.00E+00	7.28E+04	1.54E+06	2.14E+05	0.00E+00
HO-166m	2.70E+06	8.40E+05	6.40E+05	0.00E+00	1.26E+06	3.15E+06	1.27E+05	0.00E+00
W-181	4.98E+01	1.62E+01	1.74E+00	0.00E+00	0.00E+00	1.37E+04	2.02E+03	0.00E+00
W-185	1.56E+03	5.18E+02	5.45E+01	0.00E+00	0.00E+00	4.46E+05	8.56E+04	0.00E+00
W-187	8.48E+00	7.08E+00	2.48E+00	0.00E+00	0.00E+00	2.90E+04	1.55E+05	0.00E+00
NP-239	2.30E+02	2.26E+01	1.24E+01	0.00E+00	7.00E+01	3.76E+04	1.19E+05	0.00E+00
U-232	4.11E+08	0.00E+00	2.93E+07	0.00E+00	4.45E+07	1.78E+09	3.37E+05	0.00E+00
U-233	8.72E+07	0.00E+00	5.28E+06	0.00E+00	2.03E+07	4.26E+08	3.11E+05	0.00E+00
U-234	8.32E+07	0.00E+00	5.17E+06	0.00E+00	1.99E+07	4.18E+08	3.05E+05	0.00E+00
U-235	8.00E+07	0.00E+00	4.86E+06	0.00E+00	1.87E+07	3.92E+08	3.87E+05	0.00E+00
U-236	8.00E+07	0.00E+00	4.96E+06	0.00E+00	1.91E+07	4.00E+08	2.86E+05	0.00E+00
U-237	2.94E+02	0.00E+00	7.82E+01	0.00E+00	1.21E+03	8.16E+04	9.60E+04	0.00E+00
U-238	7.66E+07	0.00E+00	4.54E+06	0.00E+00	1.74E+07	3.66E+08	2.73E+05	0.00E+00
NP-237	1.25E+10	8.00E+09	5.50E+08	0.00E+00	4.08E+09	4.18E+08	3.94E+05	0.00E+00
NP-238	2.37E+03	5.76E+02	3.69E+01	0.00E+00	2.18E+02	8.16E+04	1.70E+05	0.00E+00
PU-238	1.14E+10	7.77E+09	5.52E+08	0.00E+00	2.37E+09	1.46E+09	3.62E+05	0.00E+00
PU-239	1.33E+10	8.56E+09	6.20E+08	0.00E+00	2.64E+09	1.38E+09	3.30E+05	0.00E+00
PU-240	1.32E+10	8.56E+09	6.18E+08	0.00E+00	2.63E+09	1.38E+09	3.37E+05	0.00E+00
PU-241	2.74E+08	6.95E+07	1.03E+07	0.00E+00	4.74E+07	1.22E+06	6.92E+03	0.00E+00
PU-242	1.22E+10	8.24E+09	5.97E+08	0.00E+00	2.54E+09	1.32E+09	3.24E+05	0.00E+00
PU-244	1.43E+10	9.44E+09	6.83E+08	0.00E+00	2.91E+09	1.51E+09	4.82E+05	0.00E+00
AM-241	1.34E+10	9.04E+09	5.37E+08	0.00E+00	4.03E+09	4.85E+08	3.68E+05	0.00E+00
AM-242m	1.36E+10	8.48E+09	5.38E+08	0.00E+00	4.01E+09	1.95E+08	4.63E+05	0.00E+00
AM-243	1.34E+10	8.80E+09	5.26E+08	0.00E+00	3.96E+09	4.60E+08	4.32E+05	0.00E+00
CM-242	1.78E+08	1.42E+08	7.87E+06	0.00E+00	3.58E+07	3.14E+08	3.93E+05	0.00E+00
CM-243	8.80E+09	6.09E+09	3.69E+08	0.00E+00	1.72E+09	5.05E+08	3.87E+05	0.00E+00
CM-244	6.70E+09	4.70E+09	2.81E+08	0.00E+00	1.31E+09	4.85E+08	3.74E+05	0.00E+00
CM-245	1.39E+10	9.12E+09	5.71E+08	0.00E+00	2.66E+09	4.68E+08	3.49E+05	0.00E+00
CM-246	1.38E+10	9.12E+09	5.70E+08	0.00E+00	2.66E+09	4.77E+08	3.43E+05	0.00E+00
CM-247	1.34E+10	8.96E+09	5.62E+08	0.00E+00	2.62E+09	4.68E+08	4.50E+05	0.00E+00
CM-248	1.12E+11	7.41E+10	4.63E+09	0.00E+00	2.16E+10	3.86E+09	7.27E+06	0.00E+00
CF-252	4.34E+09	0.00E+00	1.86E+08	0.00E+00	0.00E+00	1.59E+09	1.42E+06	0.00E+00