Default

Resident Equation Inputs for Settled Dust

Variable	Value
DL (dose limit) unitless	1
ICRP Rule	60
ET_r (exposure time) hr/day	24
ED_r (exposure duration - resident) yr	1
EF_r (exposure frequency) d/yr	350
IF_r (age-adjusted dust ingestion rate - resident) cm^2/day	129
F_{in} (fraction time spent indoor) unitless	1
k (dissipation rate constant) $years^{-1}$	0.0
t_r (time - resident) yr	1
F_{AM} (area and material factor) unitless	1
F_i (fraction of time spent in compartment) unitless	1
$F_{OFF\text{-}SET}$ (off-set factor) unitless	1

Output generated 06JUL2010:04:50:47

Default

Resident Building Dose Compliance Concentrations for Settled Dust

Radionuclide	Soil Ingestion DCF (mrem/pCi)	External Exposure DCF (Ground Plane) (mrem/yr per pCi/cm^2)	Lambda	Resident Settled Dust BDCC (pCi/cm^2)
Ac-223	-	5.16E-03	1.66E+05	3.35E+07
Ac-223+D	-	1.25E-01	1.66E+05	1.38E+06
Ac-223+E	-	1.25E-01	1.66E+05	1.38E+06
Ac-224	2.59E-06	2.07E-01	2.09E+03	6.65E+03
Ac-225	8.88E-05	1.72E-02	2.53E+01	6.28E+00
Ac-225+D	8.88E-05	2.99E-01	2.53E+01	5.89E+00
Ac-225+E	8.88E-05	2.99E-01	2.53E+01	5.89E+00
Ac-226	3.70E-05	1.58E-01	2.09E+02	1.15E+02
Ac-227	4.07E-03	1.65E-04	3.18E-02	5.53E-03
Ac-228	1.59E-06	1.10E+00	9.90E+02	8.82E+02
Ag-102	1.48E-07	3.72E+00	2.82E+04	7.89E+03
Ag-103	1.59E-07	8.69E-01	5.54E+03	6.59E+03
Ag-103+D	8.88E-07	8.80E-01	5.54E+03	6.27E+03
Ag-104	2.22E-07	2.94E+00	5.26E+03	1.86E+03
Ag-104m	2.00E-07	1.33E+00	1.09E+04	8.46E+03
Ag-105	1.74E-06	5.72E-01	6.17E+00	9.86E+00
Ag-106	1.18E-07	8.65E-01	1.52E+04	1.82E+04
Ag-106m	5.55E-06	3.08E+00	3.01E+01	9.38E+00
Ag-108	-	1.05E-01	1.54E+05	1.53E+06
Ag-108m	8.51E-06	1.81E+00	5.46E-03	4.73E-01
Ag-108m+D	-	1.82E+00	-	-
Ag-108m+E	-	1.82E+00	-	-
Ag-109m	-	8.78E-03	5.52E+05	6.56E+07
Ag-110	-	1.90E-01	8.88E+05	4.87E+06
Ag-110m	1.04E-05	3.01E+00	1.01E+00	4.74E-01
Ag-110m+D	-	3.01E+00	-	-
Ag-110m+E	-	3.01E+00	-	-
Ag-111	4.81E-06	6.16E-02	3.40E+01	1.23E+02
Ag-112	1.59E-06	8.71E-01	1.95E+03	2.15E+03

Output generated 06JUL2010:04:50:47

Default

Resident Building Dose Compliance Concentrations for Settled Dust

Radionuclide	Soil Ingestion DCF (mrem/pCi)	External Exposure DCF (Ground Plane) (mrem/yr per pCi/cm^2)	Lambda	Resident Settled Dust BDCC (pCi/cm^2)
Ag-115	2.22E-07	8.75E-01	1.82E+04	2.14E+04
Al-26	1.30E-05	2.88E+00	9.68E-07	2.99E-01
Al-28	-	2.00E+00	1.63E+05	8.50E+04
Am-237	6.66E-08	3.94E-01	4.99E+03	1.31E+04
Am-238	1.18E-07	9.65E-01	3.72E+03	3.99E+03
Am-239	8.88E-07	2.43E-01	5.10E+02	1.87E+03
Am-240	2.15E-06	1.12E+00	1.20E+02	1.02E+02
Am-241	7.40E-04	2.72E-02	1.60E-03	2.99E-02
Am-242	1.11E-06	1.88E-02	3.79E+02	5.56E+03
Am-242m	7.03E-04	2.64E-03	4.56E-03	3.16E-02
Am-242m+D	7.03E-04	2.44E-02	4.56E-03	3.16E-02
Am-242m+E	7.03E-04	2.50E-02	4.56E-03	3.16E-02
Am-243	7.40E-04	5.59E-02	9.39E-05	2.99E-02
Am-243+D	7.40E-04	2.36E-01	9.39E-05	2.97E-02
Am-243+E	7.40E-04	2.36E-01	9.39E-05	2.97E-02
Am-244	1.70E-06	8.87E-01	6.01E+02	6.48E+02
Am-244m	1.07E-07	6.48E-02	1.40E+04	2.09E+05
Am-245	2.29E-07	4.81E-02	2.96E+03	5.24E+04
Am-246	2.15E-07	7.94E-01	9.34E+03	1.21E+04
Am-246m	1.26E-07	1.16E+00	1.46E+04	1.30E+04
Ar-37	-	0.00E+00	7.22E+00	-
Ar-39	-	2.95E-03	2.58E-03	3.54E+02
Ar-41	-	1.42E+00	3.32E+03	2.43E+03
As-69	2.11E-07	1.30E+00	2.40E+04	1.91E+04
As-69+D	1.11E-06	2.28E+00	2.40E+04	1.07E+04
As-70	4.81E-07	4.55E+00	6.92E+03	1.58E+03
As-71	1.70E-06	6.33E-01	9.37E+01	1.37E+02
As-71+D	-	6.33E-01	-	-
As-72	6.66E-06	2.11E+00	2.33E+02	1.00E+02

Output generated 06JUL2010:04:50:47

Default

Resident Building Dose Compliance Concentrations for Settled Dust

Radionuclide	Soil Ingestion DCF (mrem/pCi)	External Exposure DCF (Ground Plane) (mrem/yr per pCi/cm^2)	Lambda	Resident Settled Dust BDCC (pCi/cm^2)
As-73	9.62E-07	6.05E-03	3.15E+00	6.68E+01
As-74	4.81E-06	8.72E-01	1.42E+01	1.35E+01
As-76	5.92E-06	6.12E-01	2.31E+02	2.70E+02
As-77	1.48E-06	1.65E-02	1.56E+02	1.89E+03
As-78	7.77E-07	1.51E+00	4.02E+03	2.72E+03
At-207	8.88E-07	1.42E+00	3.37E+03	2.40E+03
At-211	4.07E-05	3.87E-02	8.42E+02	4.49E+02
At-211+D	4.07E-05	4.38E-02	8.42E+02	4.48E+02
At-211+E	4.07E-05	7.49E-01	8.42E+02	3.29E+02
At-215	-	2.15E-04	2.19E+11	1.06E+15
At-216	-	1.51E-03	7.28E+10	5.05E+13
At-217	-	3.42E-04	6.77E+08	2.06E+12
At-218	-	4.25E-03	1.09E+07	2.68E+09
Au-193	4.81E-07	1.66E-01	3.44E+02	1.90E+03
Au-194	1.55E-06	1.13E+00	1.54E+02	1.33E+02
Au-195	9.25E-07	8.23E-02	1.38E+00	1.53E+01
Au-195m	-	2.15E-01	7.17E+05	3.48E+06
Au-198	3.70E-06	4.75E-01	9.38E+01	1.51E+02
Au-198m	4.81E-06	6.10E-01	1.10E+02	1.37E+02
Au-199	1.63E-06	9.30E-02	8.06E+01	4.95E+02
Au-200	2.52E-07	3.93E-01	7.53E+03	1.94E+04
Au-200m	4.07E-06	2.31E+00	3.25E+02	1.35E+02
Au-201	8.88E-08	1.05E-01	1.38E+04	1.31E+05
Ba-126	9.62E-07	1.76E-01	3.77E+03	1.78E+04
Ba-128	9.99E-06	7.91E-02	1.04E+02	1.98E+02
Ba-131	1.67E-06	5.01E-01	2.14E+01	3.86E+01
Ba-131m	1.81E-08	7.82E-02	2.49E+04	3.29E+05
Ba-133	5.55E-06	4.35E-01	6.45E-02	1.55E+00
Ba-133m	2.00E-06	6.97E-02	1.56E+02	9.94E+02

Output generated 06JUL2010:04:50:47

Default

Resident Building Dose Compliance Concentrations for Settled Dust

Radionuclide	Soil Ingestion DCF (mrem/pCi)	External Exposure DCF (Ground Plane) (mrem/yr per pCi/cm^2)	Lambda	Resident Settled Dust BDCC (pCi/cm^2)
Ba-135m	1.59E-06	6.28E-02	2.12E+02	1.60E+03
Ba-137m	-	6.76E-01	1.43E+05	2.20E+05
Ba-139	4.44E-07	1.70E-01	4.40E+03	2.40E+04
Ba-140	9.62E-06	2.22E-01	1.99E+01	3.07E+01
Ba-141	2.59E-07	1.03E+00	1.99E+04	1.99E+04
Ba-142	1.30E-07	1.18E+00	3.44E+04	3.02E+04
Be-10	4.07E-06	3.98E-03	4.33E-07	5.33E+00
Be-7	1.04E-07	5.51E-02	4.75E+00	8.33E+01
Bi-200	1.89E-07	2.64E+00	1.00E+04	3.94E+03
Bi-201	4.44E-07	1.49E+00	3.37E+03	2.32E+03
Bi-202	3.29E-07	2.96E+00	3.64E+03	1.27E+03
Bi-203	1.78E-06	2.54E+00	5.16E+02	2.05E+02
Bi-205	3.33E-06	1.80E+00	1.65E+01	8.82E+00
Bi-206	7.03E-06	3.57E+00	4.05E+01	1.08E+01
Bi-207	4.81E-06	1.69E+00	1.82E-02	5.49E-01
Bi-210	4.81E-06	4.10E-02	5.05E+01	1.97E+02
Bi-210m	5.55E-05	2.80E-01	2.31E-07	3.60E-01
Bi-210m+D	-	3.51E-01	-	-
Bi-210m+E	-	3.51E-01	-	-
Bi-211	-	5.13E-02	1.70E+05	3.46E+06
Bi-212	9.62E-07	2.63E-01	6.02E+03	2.04E+04
Bi-212+D	9.62E-07	1.51E+00	6.02E+03	4.05E+03
Bi-212+E	9.62E-07	1.51E+00	6.02E+03	4.05E+03
Bi-213	7.40E-07	1.96E-01	7.98E+03	3.60E+04
Bi-213+D	9.62E-07	2.49E-01	7.98E+03	2.83E+04
Bi-213+E	9.62E-07	2.49E-01	7.98E+03	2.83E+04
Bi-214	4.07E-07	1.68E+00	1.83E+04	1.12E+04
Bi-214+D	-	1.68E+00	-	-
Bi-214+E	7.03E-03	1.73E+00	1.83E+04	5.74E+01

Output generated 06JUL2010:04:50:47

Default

Resident Building Dose Compliance Concentrations for Settled Dust

Radionuclide	Soil Ingestion DCF (mrem/pCi)	External Exposure DCF (Ground Plane) (mrem/yr per pCi/cm^2)	Lambda	Resident Settled Dust BDCC (pCi/cm^2)
Bk-245	2.11E-06	2.40E-01	5.12E+01	1.57E+02
Bk-246	1.78E-06	1.04E+00	1.38E+02	1.29E+02
Bk-247	1.30E-03	1.10E-01	5.02E-04	1.71E-02
Bk-249	3.59E-06	6.23E-06	7.90E-01	8.93E+00
Bk-250	5.18E-07	9.84E-01	1.88E+03	1.95E+03
Br-74	3.11E-07	4.73E+00	1.44E+04	3.17E+03
Br-74m	5.18E-07	4.46E+00	8.78E+03	2.04E+03
Br-75	2.92E-07	1.42E+00	3.72E+03	2.70E+03
Br-76	1.70E-06	2.85E+00	3.75E+02	1.33E+02
Br-77	3.55E-07	3.49E-01	1.08E+02	3.09E+02
Br-80	1.15E-07	1.21E-01	2.09E+04	1.72E+05
Br-80m	4.07E-07	1.60E-02	1.37E+03	4.07E+04
Br-82	2.00E-06	2.89E+00	1.72E+02	6.00E+01
Br-83	1.59E-07	3.34E-02	2.54E+03	6.48E+04
Br-84	3.26E-07	1.95E+00	1.15E+04	6.08E+03
C-11	8.88E-08	1.18E+00	1.79E+04	1.58E+04
C-14	2.15E-06	1.48E-05	1.21E-04	1.03E+01
Ca-41	7.03E-07	0.00E+00	4.95E-06	3.15E+01
Ca-45	2.63E-06	4.40E-05	1.55E+00	1.66E+01
Ca-47	5.92E-06	1.17E+00	5.58E+01	4.03E+01
Ca-49	-	3.12E+00	4.18E+04	1.40E+04
Cd-104	2.00E-07	2.75E-01	6.31E+03	2.31E+04
Cd-107	2.29E-07	2.72E-02	9.35E+02	2.57E+04
Cd-109	7.40E-06	1.94E-02	5.45E-01	3.68E+00
Cd-113	9.25E-05	6.77E-05	7.45E-17	1.61E-01
Cd-113m	8.51E-05	2.07E-03	5.10E-02	2.67E-01
Cd-115	5.18E-06	2.84E-01	1.14E+02	2.25E+02
Cd-115m	1.22E-05	1.08E-01	5.67E+00	8.69E+00
Cd-117	1.04E-06	1.21E+00	2.44E+03	2.01E+03

Output generated 06JUL2010:04:50:47

Default

Resident Building Dose Compliance Concentrations for Settled Dust

Radionuclide	Soil Ingestion DCF (mrem/pCi)	External Exposure DCF (Ground Plane) (mrem/yr per pCi/cm^2)	Lambda	Resident Settled Dust BDCC (pCi/cm^2)
Cd-117m	1.04E-06	2.16E+00	1.81E+03	8.53E+02
Ce-134	9.25E-06	2.51E-02	8.43E+01	1.91E+02
Ce-135	2.92E-06	1.98E+00	3.45E+02	1.70E+02
Ce-137	9.25E-08	3.48E-02	6.75E+02	1.80E+04
Ce-137m	2.00E-06	5.51E-02	1.76E+02	1.23E+03
Ce-139	9.62E-07	1.67E-01	1.84E+00	1.07E+01
Ce-141	2.63E-06	8.09E-02	7.78E+00	3.97E+01
Ce-143	4.07E-06	3.51E-01	1.84E+02	3.53E+02
Ce-144	1.92E-05	2.15E-02	8.90E-01	1.70E+00
Ce-144+D	1.92E-05	2.11E-01	8.90E-01	1.41E+00
Ce-144+E	1.92E-05	2.11E-01	8.90E-01	1.41E+00
Cf-244	2.59E-07	9.56E-04	1.88E+04	1.49E+06
Cf-246	1.22E-05	6.69E-04	1.70E+02	3.08E+02
Cf-248	1.04E-04	6.51E-04	7.58E-01	3.05E-01
Cf-249	1.30E-03	3.68E-01	1.98E-03	1.70E-02
Cf-250	5.92E-04	6.21E-04	5.30E-02	3.84E-02
Cf-251	1.33E-03	1.32E-01	7.72E-04	1.66E-02
Cf-252	3.33E-04	4.97E-01	2.63E-01	7.33E-02
Cf-253	5.18E-06	6.03E-05	1.42E+01	6.07E+01
Cf-254	1.48E-03	1.81E+01	4.18E+00	5.04E-02
Cl-36	3.44E-06	1.31E-02	2.30E-06	5.96E+00
Cl-38	4.44E-07	1.67E+00	9.79E+03	6.04E+03
Cl-39	3.15E-07	1.65E+00	6.55E+03	4.11E+03
Cm-238	2.96E-07	7.66E-02	2.53E+03	2.92E+04
Cm-240	2.81E-05	8.97E-04	9.37E+00	7.37E+00
Cm-241	3.37E-06	5.43E-01	7.71E+00	1.15E+01
Cm-242	4.44E-05	8.19E-04	1.55E+00	9.83E-01
Cm-243	5.55E-04	1.38E-01	2.43E-02	4.02E-02
Cm-244	4.44E-04	7.52E-04	3.83E-02	5.08E-02

Output generated 06JUL2010:04:50:47

Default

Resident Building Dose Compliance Concentrations for Settled Dust

Radionuclide	Soil Ingestion DCF (mrem/pCi)	External Exposure DCF (Ground Plane) (mrem/yr per pCi/cm^2)	Lambda	Resident Settled Dust BDCC (pCi/cm^2)
Cm-245	7.77E-04	9.39E-02	8.15E-05	2.84E-02
Cm-246	7.77E-04	6.72E-04	1.47E-04	2.85E-02
Cm-247	7.03E-04	3.49E-01	4.44E-08	3.12E-02
Cm-247+D	-	3.76E-01	-	-
Cm-247+E	-	3.76E-01	-	-
Cm-248	2.85E-03	1.42E+00	1.99E-06	7.69E-03
Cm-249	1.15E-07	3.87E-02	5.68E+03	1.34E+05
Cm-250	1.63E-02	1.05E+01	7.14E-05	1.34E-03
Cm-250+D	1.63E-02	-	7.14E-05	1.36E-03
Cm-250+E	1.63E-02	1.08E+01	7.14E-05	1.34E-03
Co-55	3.70E-06	2.25E+00	3.46E+02	1.49E+02
Co-56	9.25E-06	3.77E+00	3.21E+00	8.30E-01
Co-57	7.77E-07	1.26E-01	9.34E-01	9.87E+00
Co-58	2.74E-06	1.08E+00	3.57E+00	3.17E+00
Co-58m	8.88E-08	7.76E-06	6.63E+02	1.65E+05
Co-60	1.26E-05	2.68E+00	1.31E-01	3.40E-01
Co-60m	6.29E-09	5.11E-03	3.48E+04	6.71E+06
Co-61	2.74E-07	1.51E-01	3.68E+03	2.35E+04
Co-62m	1.74E-07	3.01E+00	2.62E+04	9.05E+03
Cr-48	7.40E-07	4.71E-01	2.64E+02	5.45E+02
Cr-49	2.26E-07	1.25E+00	8.65E+03	7.17E+03
Cr-51	1.41E-07	3.47E-02	9.13E+00	2.31E+02
Cs-125	1.30E-07	7.99E-01	8.09E+03	1.05E+04
Cs-126	-	1.38E+00	2.22E+05	1.68E+05
Cs-127	8.88E-08	4.61E-01	9.71E+02	2.18E+03
Cs-128	-	1.11E+00	9.34E+04	8.75E+04
Cs-129	2.22E-07	3.06E-01	1.89E+02	6.24E+02
Cs-130	1.04E-07	6.31E-01	1.22E+04	2.00E+04
Cs-131	2.15E-07	2.09E-02	2.61E+01	8.78E+02

Output generated 06JUL2010:04:50:47

Default

Resident Building Dose Compliance Concentrations for Settled Dust

Radionuclide	Soil Ingestion DCF (mrem/pCi)	External Exposure DCF (Ground Plane) (mrem/yr per pCi/cm^2)	Lambda	Resident Settled Dust BDCC (pCi/cm^2)
Cs-132	1.85E-06	7.81E-01	3.91E+01	4.69E+01
Cs-134	7.03E-05	1.73E+00	3.36E-01	2.44E-01
Cs-134m	7.40E-08	2.63E-02	2.09E+03	7.34E+04
Cs-135	7.40E-06	3.14E-05	3.01E-07	2.99E+00
Cs-135m	7.03E-08	1.76E+00	6.87E+03	4.06E+03
Cs-136	1.11E-05	2.37E+00	1.93E+01	6.96E+00
Cs-137	4.81E-05	3.49E-03	2.31E-02	4.65E-01
Cs-137+D	4.81E-05	6.43E-01	2.31E-02	3.63E-01
Cs-137+E	4.81E-05	6.43E-01	2.31E-02	3.63E-01
Cs-138	3.40E-07	2.64E+00	1.13E+04	4.45E+03
Cu-60	2.59E-07	4.25E+00	1.57E+04	3.84E+03
Cu-61	4.44E-07	9.58E-01	1.78E+03	1.90E+03
Cu-62	-	1.30E+00	3.74E+04	3.01E+04
Cu-64	4.44E-07	2.14E-01	4.78E+02	2.13E+03
Cu-66	-	2.37E-01	7.14E+04	3.14E+05
Cu-67	1.26E-06	1.23E-01	9.81E+01	5.63E+02
Dy-155	4.81E-07	6.28E-01	6.07E+02	9.73E+02
Dy-157	2.26E-07	3.89E-01	7.49E+02	1.96E+03
Dy-159	3.70E-07	4.52E-02	1.75E+00	3.53E+01
Dy-165	4.07E-07	8.06E-02	2.60E+03	2.72E+04
Dy-166	5.92E-06	4.10E-02	7.44E+01	2.43E+02
Er-161	2.96E-07	9.98E-01	1.87E+03	1.93E+03
Er-165	7.03E-08	3.78E-02	5.86E+02	1.49E+04
Er-169	1.37E-06	7.88E-05	2.72E+01	4.39E+02
Er-171	1.33E-06	4.49E-01	8.07E+02	1.64E+03
Er-172	3.70E-06	5.79E-01	1.23E+02	1.71E+02
Es-250	7.77E-08	4.26E-01	2.89E+03	7.02E+03
Es-251	6.29E-07	9.79E-02	1.84E+02	1.50E+03
Es-253	2.26E-05	7.74E-04	1.24E+01	1.21E+01

Output generated 06JUL2010:04:50:47

Default

Resident Building Dose Compliance Concentrations for Settled Dust

Radionuclide	Soil Ingestion DCF (mrem/pCi)	External Exposure DCF (Ground Plane) (mrem/yr per pCi/cm^2)	Lambda	Resident Settled Dust BDCC (pCi/cm^2)
Es-254	1.04E-04	1.14E-02	9.17E-01	3.26E-01
Es-254+D	1.04E-04	9.95E-01	9.17E-01	2.71E-01
Es-254+E	7.03E-04	9.97E-01	9.17E-01	4.67E-02
Es-254m	1.55E-05	5.34E-01	1.54E+02	1.27E+02
Eu-145	2.78E-06	1.56E+00	4.26E+01	2.62E+01
Eu-146	4.81E-06	2.74E+00	5.49E+01	1.93E+01
Eu-147	1.63E-06	5.39E-01	1.05E+01	1.78E+01
Eu-148	4.81E-06	2.40E+00	4.64E+00	1.86E+00
Eu-149	3.70E-07	6.61E-02	2.72E+00	3.63E+01
Eu-150	4.81E-06	1.66E+00	2.03E-02	5.59E-01
Eu-150m	1.41E-06	7.91E-02	4.81E+02	3.45E+03
Eu-152	5.18E-06	1.26E+00	5.20E-02	7.11E-01
Eu-152m	1.85E-06	3.91E-01	6.51E+02	1.42E+03
Eu-154	7.40E-06	1.37E+00	7.88E-02	6.33E-01
Eu-155	1.18E-06	6.24E-02	1.40E-01	9.45E+00
Eu-156	8.14E-06	1.45E+00	1.67E+01	9.49E+00
Eu-157	2.22E-06	3.22E-01	4.01E+02	9.80E+02
Eu-158	3.48E-07	1.26E+00	7.94E+03	6.48E+03
F-18	1.81E-07	1.15E+00	3.32E+03	3.00E+03
Fe-52	5.18E-06	8.30E-01	7.34E+02	7.13E+02
Fe-55	1.22E-06	0.00E+00	2.57E-01	2.06E+01
Fe-59	6.66E-06	1.28E+00	5.68E+00	3.72E+00
Fe-60	4.07E-04	1.37E-05	6.93E-06	5.44E-02
Fe-60+D	4.07E-04	5.12E-03	6.93E-06	5.44E-02
Fe-60+E	4.07E-04	5.12E-03	6.93E-06	5.44E-02
Fm-252	9.99E-06	6.31E-04	2.67E+02	5.92E+02
Fm-253	3.37E-06	8.33E-02	8.43E+01	3.64E+02
Fm-254	1.63E-06	6.99E-04	1.87E+03	2.53E+04
Fm-255	9.25E-06	7.34E-03	3.02E+02	7.12E+02

Output generated 06JUL2010:04:50:47

Default

Resident Building Dose Compliance Concentrations for Settled Dust

Radionuclide	Soil Ingestion DCF (mrem/pCi)	External Exposure DCF (Ground Plane) (mrem/yr per pCi/cm^2)	Lambda	Resident Settled Dust BDCC (pCi/cm^2)
Fm-257	5.55E-05	1.11E-01	2.52E+00	1.05E+00
Fr-219	-	3.85E-03	1.04E+09	2.82E+11
Fr-220	-	1.15E-02	7.98E+05	7.22E+07
Fr-220+D	-	1.52E+00	7.98E+05	5.48E+05
Fr-220+E	-	1.52E+00	7.98E+05	5.48E+05
Fr-221	-	3.31E-02	7.59E+04	2.39E+06
Fr-221+D	-	2.81E-01	7.59E+04	2.81E+05
Fr-221+E	-	2.81E-01	7.59E+04	2.81E+05
Fr-222	2.66E-06	1.02E-01	2.53E+04	1.16E+05
Fr-223	8.88E-06	9.06E-02	1.67E+04	3.43E+04
Ga-65	1.37E-07	1.41E+00	2.40E+04	1.76E+04
Ga-66	4.44E-06	2.63E+00	6.46E+02	2.38E+02
Ga-67	7.03E-07	1.65E-01	7.76E+01	4.09E+02
Ga-68	3.70E-07	1.17E+00	5.36E+03	4.72E+03
Ga-70	1.15E-07	9.90E-02	1.72E+04	1.72E+05
Ga-72	4.07E-06	2.89E+00	4.31E+02	1.46E+02
Ga-73	9.62E-07	3.91E-01	1.24E+03	2.96E+03
Gd-145	1.63E-07	2.44E+00	1.59E+04	6.78E+03
Gd-146	3.55E-06	2.59E-01	5.24E+00	1.29E+01
Gd-147	2.26E-06	1.46E+00	1.59E+02	1.06E+02
Gd-148	2.07E-04	0.00E+00	7.45E-03	1.07E-01
Gd-149	1.67E-06	4.57E-01	2.69E+01	5.24E+01
Gd-151	7.40E-07	6.50E-02	2.11E+00	2.51E+01
Gd-152	1.52E-04	0.00E+00	6.42E-15	1.45E-01
Gd-153	9.99E-07	1.08E-01	1.05E+00	1.09E+01
Gd-159	1.81E-06	7.56E-02	3.27E+02	2.12E+03
Ge-66	3.70E-07	7.59E-01	2.67E+03	3.59E+03
Ge-67	2.41E-07	1.70E+00	1.95E+04	1.18E+04
Ge-68	4.81E-06	4.78E-05	8.78E-01	6.92E+00

Output generated 06JUL2010:04:50:47

Default

Resident Building Dose Compliance Concentrations for Settled Dust

Radionuclide	Soil Ingestion DCF (mrem/pCi)	External Exposure DCF (Ground Plane) (mrem/yr per pCi/cm^2)	Lambda	Resident Settled Dust BDCC (pCi/cm^2)
Ge-68+D	4.81E-06	1.17E+00	8.78E-01	1.13E+00
Ge-68+E	4.81E-06	1.17E+00	8.78E-01	1.13E+00
Ge-69	8.88E-07	9.79E-01	1.55E+02	1.59E+02
Ge-71	4.44E-08	4.84E-05	2.14E+01	1.05E+04
Ge-75	1.70E-07	8.40E-02	4.40E+03	4.99E+04
Ge-77	1.22E-06	1.27E+00	5.37E+02	4.21E+02
Ge-78	4.44E-07	3.12E-01	4.19E+03	1.31E+04
H-3	1.55E-07	0.00E+00	5.61E-02	1.47E+02
Hf-170	1.78E-06	5.96E-01	3.79E+02	5.82E+02
Hf-172	3.70E-06	1.16E-01	3.71E-01	4.30E+00
Hf-173	8.51E-07	4.35E-01	2.53E+02	5.55E+02
Hf-175	1.52E-06	4.03E-01	3.61E+00	8.17E+00
Hf-177m	3.00E-07	2.45E+00	7.09E+03	3.00E+03
Hf-178m	1.74E-05	2.59E+00	2.24E-02	3.09E-01
Hf-179m	4.44E-06	9.83E-01	1.01E+01	8.82E+00
Hf-180m	6.29E-07	1.10E+00	1.10E+03	1.02E+03
Hf-181	4.07E-06	6.13E-01	5.97E+00	7.75E+00
Hf-182	1.11E-05	2.60E-01	7.70E-08	1.33E+00
Hf-182+D	-	-	7.70E-08	-
Hf-182+E	1.67E-05	1.66E+00	7.70E-08	4.27E-01
Hf-182m	1.55E-07	1.02E+00	5.92E+03	5.99E+03
Hf-183	2.70E-07	8.78E-01	5.69E+03	6.67E+03
Hf-184	1.92E-06	2.87E-01	1.47E+03	4.07E+03
Hg-193	3.03E-07	2.10E-01	1.73E+03	8.06E+03
Hg-193m	1.48E-06	1.13E+00	5.47E+02	4.76E+02
Hg-194	5.18E-06	2.61E-04	2.67E-03	4.28E+00
Hg-194+D	6.66E-06	1.13E+00	2.67E-03	7.21E-01
Hg-194+E	6.66E-06	1.13E+00	2.67E-03	7.21E-01
Hg-195	3.59E-07	2.16E-01	6.13E+02	2.75E+03

Output generated 06JUL2010:04:50:47

Default

Resident Building Dose Compliance Concentrations for Settled Dust

Radionuclide	Soil Ingestion DCF (mrem/pCi)	External Exposure DCF (Ground Plane) (mrem/yr per pCi/cm^2)	Lambda	Resident Settled Dust BDCC (pCi/cm^2)
Hg-195m	2.07E-06	2.25E-01	1.46E+02	4.71E+02
Hg-197	8.51E-07	6.76E-02	9.47E+01	9.18E+02
Hg-197m	1.74E-06	9.48E-02	2.55E+02	1.51E+03
Hg-199m	1.15E-07	1.95E-01	8.55E+03	4.45E+04
Hg-203	2.00E-06	2.59E-01	5.43E+00	1.61E+01
Ho-155	1.37E-07	4.54E-01	7.59E+03	1.72E+04
Ho-157	2.41E-08	5.38E-01	2.89E+04	5.59E+04
Ho-159	2.92E-08	3.90E-01	1.10E+04	2.94E+04
Ho-161	4.81E-08	6.00E-02	2.43E+03	4.07E+04
Ho-162	1.22E-08	1.81E-01	2.43E+04	1.40E+05
Ho-162m	9.62E-08	6.19E-01	5.36E+03	8.97E+03
Ho-164	3.52E-08	3.94E-02	1.26E+04	3.19E+05
Ho-164m	5.92E-08	4.55E-02	9.71E+03	2.10E+05
Ho-166	5.18E-06	1.23E-01	2.27E+02	6.45E+02
Ho-166m	7.40E-06	1.93E+00	5.78E-04	4.59E-01
Ho-167	3.07E-07	4.10E-01	1.96E+03	4.82E+03
I-120	1.26E-06	3.06E+00	4.50E+03	1.50E+03
I-120m	7.77E-07	5.85E+00	6.87E+03	1.22E+03
I-121	3.03E-07	4.62E-01	2.86E+03	6.27E+03
I-122	-	1.19E+00	1.01E+05	8.82E+04
I-123	7.77E-07	1.79E-01	4.60E+02	2.23E+03
I-124	4.81E-05	1.21E+00	6.05E+01	1.81E+01
I-125	5.55E-05	3.66E-02	4.21E+00	1.68E+00
I-126	1.07E-04	5.16E-01	1.94E+01	3.64E+00
I-128	1.70E-07	2.00E-01	1.46E+04	7.32E+04
I-129	4.07E-04	2.28E-02	4.41E-08	5.44E-02
I-130	7.40E-06	2.39E+00	4.91E+02	1.87E+02
I-131	8.14E-05	4.25E-01	3.15E+01	7.71E+00
I-132	1.07E-06	2.57E+00	2.64E+03	1.05E+03

Output generated 06JUL2010:04:50:47

Default

Resident Building Dose Compliance Concentrations for Settled Dust

Radionuclide	Soil Ingestion DCF (mrem/pCi)	External Exposure DCF (Ground Plane) (mrem/yr per pCi/cm^2)	Lambda	Resident Settled Dust BDCC (pCi/cm^2)
I-132m	8.14E-07	3.63E-01	4.36E+03	1.13E+04
I-133	1.59E-05	7.20E-01	2.92E+02	2.07E+02
I-134	4.07E-07	2.95E+00	6.92E+03	2.43E+03
I-135	3.44E-06	1.72E+00	9.18E+02	5.10E+02
In-109	2.44E-07	7.28E-01	1.45E+03	2.04E+03
In-110	8.88E-07	3.36E+00	1.24E+03	3.80E+02
In-110m	3.70E-07	1.79E+00	5.27E+03	3.05E+03
In-111	1.07E-06	4.29E-01	8.94E+01	1.94E+02
In-112	3.70E-08	3.20E-01	2.53E+04	8.20E+04
In-113m	1.04E-07	2.84E-01	3.66E+03	1.32E+04
In-114	-	3.22E-03	3.04E+05	9.84E+07
In-114m	1.52E-05	1.01E-01	5.11E+00	6.58E+00
In-114m+D	1.52E-05	1.04E-01	5.11E+00	6.55E+00
In-114m+E	1.52E-05	1.04E-01	5.11E+00	6.55E+00
In-115	1.18E-04	4.17E-04	1.36E-16	2.29E-01
In-115m	3.18E-07	1.76E-01	1.35E+03	7.38E+03
In-116m	2.37E-07	2.66E+00	6.73E+03	2.63E+03
In-117	1.15E-07	7.75E-01	8.32E+03	1.11E+04
In-117m	4.44E-07	1.46E-01	3.13E+03	1.95E+04
In-119	-	9.36E-01	1.52E+05	1.69E+05
In-119m	1.74E-07	1.52E-01	2.02E+04	1.32E+05
Ir-182	1.78E-07	1.56E+00	2.43E+04	1.61E+04
Ir-184	6.29E-07	2.08E+00	2.01E+03	9.95E+02
Ir-185	9.62E-07	6.22E-01	4.34E+02	6.78E+02
Ir-186	1.81E-06	1.76E+00	3.84E+02	2.17E+02
Ir-186m	2.26E-07	1.07E+00	3.47E+03	3.35E+03
Ir-187	4.44E-07	3.93E-01	5.78E+02	1.46E+03
Ir-188	2.33E-06	1.66E+00	1.46E+02	8.63E+01
Ir-189	8.88E-07	8.16E-02	1.90E+01	1.61E+02

Output generated 06JUL2010:04:50:47

Default

Resident Building Dose Compliance Concentrations for Settled Dust

Radionuclide	Soil Ingestion DCF (mrem/pCi)	External Exposure DCF (Ground Plane) (mrem/yr per pCi/cm^2)	Lambda	Resident Settled Dust BDCC (pCi/cm^2)
Ir-190	4.44E-06	1.59E+00	2.09E+01	1.21E+01
Ir-190m	-	6.21E-05	5.06E+03	8.50E+07
Ir-190n	-	1.72E+00	1.96E+03	1.19E+03
Ir-191m	-	7.39E-02	4.42E+06	6.25E+07
Ir-192	5.18E-06	9.07E-01	3.42E+00	3.20E+00
Ir-192m	1.15E-06	1.72E-01	2.88E-03	4.63E+00
Ir-194	4.81E-06	2.11E-01	3.17E+02	7.55E+02
Ir-194m	7.77E-06	2.60E+00	1.48E+00	6.73E-01
Ir-195	3.70E-07	8.60E-02	2.43E+03	2.45E+04
Ir-195m	7.77E-07	4.64E-01	1.60E+03	3.33E+03
K-38	-	3.47E+00	4.77E+04	1.44E+04
K-40	2.29E-05	2.38E-01	5.41E-10	7.91E-01
K-42	1.59E-06	4.64E-01	4.91E+02	9.50E+02
K-43	9.25E-07	1.10E+00	2.69E+02	2.45E+02
K-44	3.11E-07	2.47E+00	1.65E+04	6.90E+03
K-45	2.00E-07	2.05E+00	1.82E+04	9.20E+03
Kr-74	-	1.40E+00	3.17E+04	2.36E+04
Kr-76	-	4.70E-01	4.10E+02	9.10E+02
Kr-77	-	1.21E+00	4.88E+03	4.19E+03
Kr-79	-	2.79E-01	1.73E+02	6.48E+02
Kr-81	-	6.99E-03	3.30E-06	1.49E+02
Kr-81m	-	1.38E-01	1.68E+06	1.27E+07
Kr-83m	-	4.17E-04	3.32E+03	8.30E+06
Kr-85	-	1.23E-02	6.46E-02	8.79E+01
Kr-85m	-	1.83E-01	1.36E+03	7.71E+03
Kr-87	-	9.80E-01	4.77E+03	5.08E+03
Kr-88	-	2.02E+00	2.14E+03	1.10E+03
La-131	1.30E-07	7.64E-01	6.17E+03	8.36E+03
La-132	1.44E-06	2.22E+00	1.26E+03	5.77E+02

Output generated 06JUL2010:04:50:47

Default

Resident Building Dose Compliance Concentrations for Settled Dust

Radionuclide	Soil Ingestion DCF (mrem/pCi)	External Exposure DCF (Ground Plane) (mrem/yr per pCi/cm^2)	Lambda	Resident Settled Dust BDCC (pCi/cm^2)
La-134	-	8.75E-01	5.46E+04	6.51E+04
La-135	1.11E-07	3.55E-02	3.11E+02	7.98E+03
La-137	3.00E-07	2.29E-02	1.16E-05	2.82E+01
La-138	4.07E-06	1.32E+00	5.13E-12	6.90E-01
La-140	7.40E-06	2.52E+00	1.51E+02	5.48E+01
La-141	1.33E-06	1.77E-01	1.54E+03	6.71E+03
La-142	6.66E-07	2.91E+00	3.94E+03	1.40E+03
La-143	2.07E-07	2.65E-01	2.56E+04	9.72E+04
Lu-169	1.70E-06	1.12E+00	1.78E+02	1.55E+02
Lu-170	3.66E-06	2.56E+00	1.26E+02	4.83E+01
Lu-171	2.48E-06	7.63E-01	3.08E+01	3.65E+01
Lu-172	4.81E-06	2.05E+00	3.78E+01	1.73E+01
Lu-173	9.62E-07	1.35E-01	5.06E-01	7.35E+00
Lu-174	9.99E-07	1.31E-01	2.09E-01	6.50E+00
Lu-174m	1.96E-06	6.22E-02	1.78E+00	1.45E+01
Lu-176	6.66E-06	5.33E-01	1.93E-11	1.23E+00
Lu-176m	6.29E-07	6.54E-02	1.65E+03	1.81E+04
Lu-177	1.96E-06	3.75E-02	3.77E+01	3.03E+02
Lu-177m	6.29E-06	1.09E+00	1.57E+00	1.50E+00
Lu-178	1.74E-07	2.51E-01	1.28E+04	5.16E+04
Lu-178m	1.41E-07	1.26E+00	1.60E+04	1.32E+04
Lu-179	7.77E-07	8.95E-02	1.32E+03	1.09E+04
Md-257	4.44E-07	1.18E-01	1.17E+03	8.77E+03
Md-258	4.81E-05	3.87E-03	4.60E+00	2.14E+00
Mg-28	8.14E-06	1.47E+00	2.90E+02	1.63E+02
Mn-51	3.44E-07	1.25E+00	7.88E+03	6.50E+03
Mn-52	6.66E-06	3.76E+00	4.52E+01	1.16E+01
Mn-52m	2.55E-07	2.75E+00	1.73E+04	6.51E+03
Mn-53	1.11E-07	0.00E+00	1.87E-07	2.00E+02

Output generated 06JUL2010:04:50:47

Default

Resident Building Dose Compliance Concentrations for Settled Dust

Radionuclide	Soil Ingestion DCF (mrem/pCi)	External Exposure DCF (Ground Plane) (mrem/yr per pCi/cm^2)	Lambda	Resident Settled Dust BDCC (pCi/cm^2)
Mn-54	2.63E-06	9.23E-01	8.09E-01	1.45E+00
Mn-56	9.25E-07	1.89E+00	2.35E+03	1.27E+03
Mo-101	1.52E-07	1.53E+00	2.49E+04	1.69E+04
Mo-90	8.14E-07	9.08E-01	1.07E+03	1.18E+03
Mo-93	1.15E-05	4.53E-03	1.98E-04	1.92E+00
Mo-93m	4.07E-07	2.42E+00	8.86E+02	3.80E+02
Mo-99	2.22E-06	2.08E-01	9.20E+01	3.07E+02
N-13	-	1.20E+00	3.66E+04	3.17E+04
Na-22	1.18E-05	2.39E+00	2.66E-01	4.03E-01
Na-24	1.59E-06	4.19E+00	4.05E+02	9.90E+01
Nb-88	2.33E-07	4.69E+00	2.55E+04	5.65E+03
Nb-89	9.99E-07	1.62E+00	2.99E+03	1.87E+03
Nb-89m	5.18E-07	2.26E+00	5.52E+03	2.52E+03
Nb-90	4.44E-06	4.42E+00	4.16E+02	9.36E+01
Nb-93m	4.44E-07	7.96E-04	5.10E-02	4.93E+01
Nb-94	6.29E-06	1.74E+00	3.41E-05	5.12E-01
Nb-95	2.15E-06	8.50E-01	7.20E+00	7.90E+00
Nb-95m	2.07E-06	6.90E-02	7.01E+01	4.39E+02
Nb-96	4.07E-06	2.73E+00	2.60E+02	9.28E+01
Nb-97	2.52E-07	7.88E-01	5.05E+03	6.59E+03
Nb-97m	-	8.11E-01	3.64E+05	4.68E+05
Nb-98	4.07E-07	2.77E+00	7.07E+03	2.65E+03
Nd-136	3.66E-07	3.19E-01	7.19E+03	2.23E+04
Nd-138	2.37E-06	4.38E-02	1.20E+03	8.09E+03
Nd-139	7.40E-08	4.75E-01	1.23E+04	2.67E+04
Nd-139m	9.25E-07	1.73E+00	1.10E+03	6.50E+02
Nd-141	3.07E-08	7.98E-02	2.44E+03	3.13E+04
Nd-141m	-	8.54E-01	3.50E+05	4.28E+05
Nd-147	4.07E-06	1.63E-01	2.30E+01	6.77E+01

Output generated 06JUL2010:04:50:47

Default

Resident Building Dose Compliance Concentrations for Settled Dust

Radionuclide	Soil Ingestion DCF (mrem/pCi)	External Exposure DCF (Ground Plane) (mrem/yr per pCi/cm^2)	Lambda	Resident Settled Dust BDCC (pCi/cm^2)
Nd-149	4.44E-07	4.74E-01	3.51E+03	7.40E+03
Nd-151	1.11E-07	1.08E+00	2.93E+04	2.82E+04
Ne-19	-	1.28E+00	1.27E+06	1.03E+06
Ni-56	3.18E-06	1.89E+00	4.15E+01	2.12E+01
Ni-57	3.22E-06	2.05E+00	1.68E+02	7.96E+01
Ni-59	2.33E-07	0.00E+00	9.24E-06	9.50E+01
Ni-63	5.55E-07	0.00E+00	7.22E-03	4.01E+01
Ni-65	6.66E-07	6.64E-01	2.41E+03	3.61E+03
Ni-66	1.11E-05	3.30E-05	1.11E+02	2.22E+02
Np-232	3.59E-08	1.32E+00	2.48E+04	1.96E+04
Np-233	8.14E-09	9.09E-02	1.01E+04	1.15E+05
Np-234	3.00E-06	1.53E+00	5.75E+01	3.59E+01
Np-235	1.96E-07	3.34E-03	6.39E-01	1.12E+02
Np-236	6.29E-05	1.30E-01	6.03E-06	3.37E-01
Np-236m	-	5.11E-02	2.70E+02	5.50E+03
Np-237	4.07E-04	2.94E-02	3.24E-07	5.43E-02
Np-237+D	-	-	3.24E-07	-
Np-237+E	4.07E-04	2.46E-01	3.24E-07	5.37E-02
Np-238	3.37E-06	6.23E-01	1.19E+02	1.59E+02
Np-239	2.96E-06	1.80E-01	1.07E+02	3.51E+02
Np-240	3.03E-07	1.45E+00	5.60E+03	4.00E+03
Np-240m	-	4.52E-01	4.92E+04	1.14E+05
O-15	-	1.25E+00	1.79E+05	1.49E+05
Os-180	6.29E-08	6.29E-02	1.66E+04	2.62E+05
Os-181	3.29E-07	1.32E+00	3.47E+03	2.71E+03
Os-182	2.07E-06	4.74E-01	2.76E+02	5.04E+02
Os-185	1.89E-06	7.95E-01	2.69E+00	3.41E+00
Os-189m	6.66E-08	5.64E-05	1.01E+03	3.31E+05
Os-190m	-	1.76E+00	3.68E+04	2.18E+04

Output generated 06JUL2010:04:50:47

Default

Resident Building Dose Compliance Concentrations for Settled Dust

Radionuclide	Soil Ingestion DCF (mrem/pCi)	External Exposure DCF (Ground Plane) (mrem/yr per pCi/cm^2)	Lambda	Resident Settled Dust BDCC (pCi/cm^2)
Os-191	2.11E-06	7.88E-02	1.64E+01	9.62E+01
Os-191m	3.55E-07	7.47E-03	4.66E+02	2.01E+04
Os-193	3.00E-06	1.12E-01	2.02E+02	8.34E+02
Os-194	8.88E-06	1.11E-03	1.16E-01	2.63E+00
Os-194+D	1.37E-05	2.12E-01	1.16E-01	1.29E+00
Os-194+E	1.37E-05	2.12E-01	1.16E-01	1.29E+00
P-30	-	1.32E+00	1.46E+05	1.15E+05
P-32	8.88E-06	9.94E-02	1.77E+01	3.57E+01
P-33	8.88E-07	4.25E-05	9.96E+00	2.48E+02
Pa-227	1.67E-06	2.11E-02	9.51E+03	9.97E+04
Pa-228	2.89E-06	1.23E+00	2.76E+02	2.11E+02
Pa-230	3.40E-06	7.08E-01	1.45E+01	1.75E+01
Pa-231	2.63E-03	4.41E-02	2.12E-05	8.43E-03
Pa-232	2.66E-06	1.03E+00	1.93E+02	1.74E+02
Pa-233	3.22E-06	2.17E-01	9.37E+00	2.65E+01
Pa-234	1.89E-06	2.10E+00	9.06E+02	4.32E+02
Pa-234m	-	1.26E-01	3.11E+05	2.58E+06
Pb-195m	1.07E-07	1.77E+00	2.31E+04	1.35E+04
Pb-198	3.70E-07	4.74E-01	2.53E+03	5.37E+03
Pb-199	2.00E-07	1.59E+00	4.05E+03	2.64E+03
Pb-200	1.48E-06	2.17E-01	2.82E+02	1.03E+03
Pb-201	5.92E-07	8.26E-01	6.46E+02	7.89E+02
Pb-202	3.26E-05	2.23E-04	2.31E-06	6.80E-01
Pb-202+D	3.26E-05	-	2.31E-06	6.80E-01
Pb-202+E	3.26E-05	5.13E-01	2.31E-06	5.10E-01
Pb-202m	4.81E-07	2.25E+00	1.68E+03	7.69E+02
Pb-203	8.88E-07	3.34E-01	1.17E+02	3.24E+02
Pb-205	1.04E-06	2.43E-04	4.85E-08	2.13E+01
Pb-209	2.11E-07	3.72E-03	1.87E+03	1.43E+05

Output generated 06JUL2010:04:50:47

Default

Resident Building Dose Compliance Concentrations for Settled Dust

Radionuclide	Soil Ingestion DCF (mrem/pCi)	External Exposure DCF (Ground Plane) (mrem/yr per pCi/cm^2)	Lambda	Resident Settled Dust BDCC (pCi/cm^2)
Pb-210	2.55E-03	2.49E-03	3.11E-02	8.81E-03
Pb-211	6.66E-07	1.11E-01	1.01E+04	7.40E+04
Pb-212	2.22E-05	1.58E-01	5.71E+02	4.95E+02
Pb-214	5.18E-07	2.80E-01	1.36E+04	4.66E+04
Pd-100	3.48E-06	1.24E-01	6.97E+01	2.53E+02
Pd-101	3.48E-07	3.61E-01	7.34E+02	2.03E+03
Pd-103	7.03E-07	8.95E-03	1.49E+01	3.70E+02
Pd-107	1.37E-07	0.00E+00	1.07E-07	1.62E+02
Pd-109	2.04E-06	4.35E-02	4.52E+02	3.38E+03
Pm-141	1.33E-07	9.02E-01	1.74E+04	2.00E+04
Pm-142	-	1.12E+00	5.40E+05	5.01E+05
Pm-143	8.51E-07	3.47E-01	9.55E-01	4.19E+00
Pm-144	3.59E-06	1.74E+00	6.97E-01	7.59E-01
Pm-145	4.07E-07	3.05E-02	3.92E-02	2.14E+01
Pm-146	3.33E-06	8.39E-01	1.25E-01	1.11E+00
Pm-147	9.62E-07	3.27E-05	2.64E-01	2.62E+01
Pm-148	9.99E-06	7.13E-01	4.71E+01	4.15E+01
Pm-148m	6.29E-06	2.23E+00	6.12E+00	2.53E+00
Pm-149	3.66E-06	4.71E-02	1.14E+02	5.43E+02
Pm-150	9.62E-07	1.65E+00	2.27E+03	1.40E+03
Pm-151	2.70E-06	3.71E-01	2.14E+02	4.47E+02
Po-203	1.70E-07	1.79E+00	9.92E+03	5.77E+03
Po-205	2.15E-07	1.72E+00	3.37E+03	2.04E+03
Po-207	4.07E-07	1.45E+00	1.04E+03	7.40E+02
Po-210	4.44E-03	9.44E-06	1.83E+00	1.09E-02
Po-211	-	8.66E-03	4.24E+07	5.10E+09
Po-212	-	0.00E+00	7.17E+13	-
Po-213	-	0.00E+00	5.20E+12	-
Po-214	-	9.25E-05	1.33E+11	1.50E+15

Output generated 06JUL2010:04:50:47

Default

Resident Building Dose Compliance Concentrations for Settled Dust

Radionuclide	Soil Ingestion DCF (mrem/pCi)	External Exposure DCF (Ground Plane) (mrem/yr per pCi/cm^2)	Lambda	Resident Settled Dust BDCC (pCi/cm^2)
Po-215	-	1.96E-04	1.23E+10	6.53E+13
Po-216	-	1.88E-05	1.46E+08	8.09E+12
Po-218	-	1.01E-05	1.19E+05	1.23E+10
Pr-136	1.22E-07	2.38E+00	2.78E+04	1.22E+04
Pr-137	1.48E-07	5.80E-01	4.76E+03	8.45E+03
Pr-138	-	1.05E+00	2.51E+05	2.50E+05
Pr-138m	4.81E-07	2.74E+00	2.89E+03	1.09E+03
Pr-139	1.15E-07	1.37E-01	1.35E+03	9.89E+03
Pr-142	4.81E-06	1.72E-01	3.17E+02	8.31E+02
Pr-142m	6.29E-08	0.00E+00	2.49E+04	8.78E+06
Pr-143	4.44E-06	2.40E-02	1.87E+01	8.35E+01
Pr-144	1.85E-07	1.90E-01	2.11E+04	1.11E+05
Pr-144m	-	1.23E-02	5.06E+04	4.31E+06
Pr-145	1.44E-06	1.09E-01	1.02E+03	5.97E+03
Pr-147	1.22E-07	1.04E+00	2.68E+04	2.66E+04
Pt-186	3.44E-07	8.17E-01	3.04E+03	3.80E+03
Pt-188	2.81E-06	2.12E-01	2.48E+01	7.50E+01
Pt-189	4.44E-07	3.49E-01	5.58E+02	1.57E+03
Pt-191	1.26E-06	3.24E-01	9.03E+01	2.46E+02
Pt-193	1.15E-07	1.80E-04	1.39E-02	1.88E+02
Pt-193m	1.67E-06	1.09E-02	5.84E+01	6.82E+02
Pt-195m	2.33E-06	7.22E-02	6.29E+01	3.61E+02
Pt-197	1.48E-06	2.79E-02	3.32E+02	3.55E+03
Pt-197m	3.11E-07	8.50E-02	3.86E+03	4.04E+04
Pt-199	1.44E-07	2.88E-01	1.18E+04	4.18E+04
Pt-200	4.44E-06	6.37E-02	4.86E+02	1.86E+03
Pu-234	5.92E-07	6.75E-02	6.90E+02	7.55E+03
Pu-235	7.77E-09	9.34E-02	1.44E+04	1.60E+05
Pu-236	3.22E-04	8.58E-04	2.43E-01	7.75E-02

Output generated 06JUL2010:04:50:47

Default

Resident Building Dose Compliance Concentrations for Settled Dust

Radionuclide	Soil Ingestion DCF (mrem/pCi)	External Exposure DCF (Ground Plane) (mrem/yr per pCi/cm^2)	Lambda	Resident Settled Dust BDCC (pCi/cm^2)
Pu-237	3.70E-07	4.96E-02	5.58E+00	8.72E+01
Pu-238	8.51E-04	7.31E-04	7.90E-03	2.61E-02
Pu-239	9.25E-04	3.31E-04	2.88E-05	2.39E-02
Pu-240	9.25E-04	7.01E-04	1.06E-04	2.39E-02
Pu-241	1.78E-05	2.01E-06	4.81E-02	1.28E+00
Pu-242	8.88E-04	5.81E-04	1.84E-06	2.49E-02
Pu-243	3.15E-07	2.65E-02	1.22E+03	3.09E+04
Pu-244	8.88E-04	2.36E-02	8.66E-09	2.49E-02
Pu-244+D	8.88E-04	4.78E-01	8.66E-09	2.47E-02
Pu-244+E	8.88E-04	4.78E-01	8.66E-09	2.47E-02
Pu-245	2.66E-06	4.74E-01	5.78E+02	1.01E+03
Pu-246	1.22E-05	1.44E-01	2.33E+01	3.38E+01
Ra-222	-	1.01E-02	5.75E+05	5.93E+07
Ra-223	3.70E-04	1.41E-01	2.21E+01	1.31E+00
Ra-223+D	3.70E-04	4.29E-01	2.21E+01	1.29E+00
Ra-223+E	3.70E-04	4.29E-01	2.21E+01	1.29E+00
Ra-224	2.41E-04	1.07E-02	6.91E+01	6.36E+00
Ra-224+D	2.41E-04	1.68E+00	6.91E+01	5.54E+00
Ra-224+E	2.41E-04	1.68E+00	6.91E+01	5.54E+00
Ra-225	3.66E-04	1.25E-02	1.71E+01	1.03E+00
Ra-225+D	4.44E-04	3.12E-01	1.71E+01	8.40E-01
Ra-225+E	4.44E-04	3.12E-01	1.71E+01	8.40E-01
Ra-226	1.04E-03	7.13E-03	4.33E-04	2.14E-02
Ra-226+D	1.04E-03	-	4.33E-04	2.14E-02
Ra-226+E	1.04E-03	1.97E+00	4.33E-04	2.06E-02
Ra-227	3.00E-07	2.12E-01	8.63E+03	3.97E+04
Ra-227+D	-	-	8.63E+03	-
Ra-228	2.55E-03	0.00E+00	1.21E-01	9.21E-03
Ra-228+D	3.07E-03	1.10E+00	1.21E-01	7.60E-03

Output generated 06JUL2010:04:50:47

Default

Resident Building Dose Compliance Concentrations for Settled Dust

Radionuclide	Soil Ingestion DCF (mrem/pCi)	External Exposure DCF (Ground Plane) (mrem/yr per pCi/cm^2)	Lambda	Resident Settled Dust BDCC (pCi/cm^2)
Ra-228+E	3.07E-03	2.78E+00	1.21E-01	7.51E-03
Rb-79	1.85E-07	1.61E+00	1.59E+04	1.02E+04
Rb-80	-	1.61E+00	6.43E+05	4.16E+05
Rb-81	2.00E-07	6.98E-01	1.33E+03	1.95E+03
Rb-81m	3.59E-08	5.73E-03	1.14E+04	1.60E+06
Rb-82	-	1.40E+00	2.80E+05	2.09E+05
Rb-82m	4.81E-07	3.20E+00	9.79E+02	3.17E+02
Rb-83	7.03E-06	5.55E-01	2.93E+00	3.65E+00
Rb-84	1.04E-05	1.02E+00	7.72E+00	5.34E+00
Rb-86	1.04E-05	1.95E-01	1.36E+01	2.07E+01
Rb-87	5.55E-06	8.52E-05	1.47E-11	3.99E+00
Rb-88	3.33E-07	8.65E-01	2.05E+04	2.42E+04
Rb-89	1.74E-07	2.30E+00	2.40E+04	1.08E+04
Re-177	8.14E-08	6.94E-01	2.60E+04	3.89E+04
Re-178	9.25E-08	1.34E+00	2.76E+04	2.14E+04
Re-180	-	1.31E+00	1.50E+05	1.20E+05
Re-181	1.55E-06	8.40E-01	3.04E+02	3.47E+02
Re-182	5.18E-06	2.02E+00	9.49E+01	4.37E+01
Re-182m	9.99E-07	1.26E+00	4.78E+02	3.81E+02
Re-184	3.70E-06	9.77E-01	6.66E+00	6.04E+00
Re-184m	5.55E-06	4.19E-01	1.53E+00	3.00E+00
Re-186	5.55E-06	5.16E-02	6.70E+01	2.23E+02
Re-186m	8.14E-06	1.49E-02	3.47E-06	2.62E+00
Re-186m+D	1.37E-05	-	3.47E-06	1.62E+00
Re-186m+E	1.37E-05	6.65E-02	3.47E-06	1.47E+00
Re-187	1.89E-08	0.00E+00	1.39E-11	1.17E+03
Re-188	5.18E-06	1.69E-01	3.58E+02	9.03E+02
Re-188m	1.11E-07	7.90E-02	1.96E+04	2.42E+05
Re-189	2.89E-06	9.81E-02	2.50E+02	1.11E+03

Output generated 06JUL2010:04:50:47

Default

Resident Building Dose Compliance Concentrations for Settled Dust

Radionuclide	Soil Ingestion DCF (mrem/pCi)	External Exposure DCF (Ground Plane) (mrem/yr per pCi/cm^2)	Lambda	Resident Settled Dust BDCC (pCi/cm^2)
Rh-100	2.63E-06	2.91E+00	2.92E+02	1.00E+02
Rh-101	2.04E-06	2.80E-01	2.17E-01	3.09E+00
Rh-101m	8.14E-07	3.30E-01	5.83E+01	1.65E+02
Rh-102	9.62E-06	2.36E+00	2.39E-01	4.17E-01
Rh-102m	4.44E-06	5.57E-01	1.22E+00	2.36E+00
Rh-103m	1.41E-08	1.03E-03	6.49E+03	3.99E+06
Rh-105	1.37E-06	8.66E-02	1.72E+02	1.19E+03
Rh-106	-	4.03E-01	7.31E+05	1.89E+06
Rh-106m	5.92E-07	3.21E+00	2.76E+03	8.89E+02
Rh-107	8.88E-08	3.94E-01	1.68E+04	4.39E+04
Rh-99	1.89E-06	6.61E-01	1.58E+01	2.20E+01
Rh-99m	2.44E-07	7.46E-01	1.29E+03	1.78E+03
Rn-218	-	8.46E-04	6.24E+08	7.70E+11
Rn-219	-	6.16E-02	5.52E+06	9.34E+07
Rn-219+D	-	2.89E-01	5.52E+06	1.99E+07
Rn-219+E	-	2.89E-01	5.52E+06	1.99E+07
Rn-220	-	4.31E-04	3.93E+05	9.52E+08
Rn-222	-	4.46E-04	6.62E+01	1.55E+05
Rn-222+D	-	1.96E+00	6.62E+01	3.52E+01
Rn-222+E	-	2.01E+00	6.62E+01	3.44E+01
Ru-103	2.70E-06	5.24E-01	6.44E+00	1.03E+01
Ru-105	9.62E-07	9.13E-01	1.37E+03	1.49E+03
Ru-105+D	2.33E-06	9.99E-01	1.37E+03	1.29E+03
Ru-106	2.59E-05	0.00E+00	6.87E-01	1.18E+00
Ru-106+D	2.59E-05	4.03E-01	6.87E-01	8.89E-01
Ru-106+E	2.59E-05	4.03E-01	6.87E-01	8.89E-01
Ru-94	3.48E-07	5.84E-01	7.03E+03	1.22E+04
Ru-97	5.55E-07	2.52E-01	8.72E+01	3.27E+02
S-35	2.85E-06	1.55E-05	2.89E+00	2.38E+01

Output generated 06JUL2010:04:50:47

Default

Resident Building Dose Compliance Concentrations for Settled Dust

Radionuclide	Soil Ingestion DCF (mrem/pCi)	External Exposure DCF (Ground Plane) (mrem/yr per pCi/cm^2)	Lambda	Resident Settled Dust BDCC (pCi/cm^2)
Sb-115	8.88E-08	1.04E+00	1.15E+04	1.14E+04
Sb-116	9.62E-08	2.37E+00	2.31E+04	1.01E+04
Sb-116m	2.48E-07	3.42E+00	6.04E+03	1.84E+03
Sb-117	6.66E-08	1.93E-01	2.17E+03	1.16E+04
Sb-118m	7.77E-07	2.79E+00	1.21E+03	4.48E+02
Sb-119	2.96E-07	1.82E-02	1.59E+02	5.17E+03
Sb-120	5.18E-08	5.45E-01	2.29E+04	4.37E+04
Sb-120m	4.44E-06	2.66E+00	4.39E+01	1.60E+01
Sb-122	6.29E-06	5.66E-01	9.37E+01	1.13E+02
Sb-124	9.25E-06	1.98E+00	4.20E+00	1.84E+00
Sb-124m	-	4.01E-01	2.35E+05	6.10E+05
Sb-124n	2.96E-08	5.92E-05	1.80E+04	1.29E+07
Sb-125	4.07E-06	4.77E-01	2.50E-01	1.76E+00
Sb-126	8.88E-06	3.17E+00	2.04E+01	5.92E+00
Sb-126m	1.33E-07	1.81E+00	1.92E+04	1.10E+04
Sb-127	6.29E-06	7.89E-01	6.57E+01	6.31E+01
Sb-128	2.81E-06	3.48E+00	6.74E+02	1.95E+02
Sb-128m	1.22E-07	2.32E+00	3.50E+04	1.57E+04
Sb-129	1.55E-06	1.60E+00	1.41E+03	8.77E+02
Sb-130	3.37E-07	3.66E+00	9.11E+03	2.58E+03
Sb-131	3.70E-07	2.07E+00	1.58E+04	7.93E+03
Sc-43	7.03E-07	1.25E+00	1.56E+03	1.27E+03
Sc-44	1.30E-06	2.43E+00	1.55E+03	6.48E+02
Sc-44m	8.88E-06	3.06E-01	1.04E+02	1.49E+02
Sc-46	5.55E-06	2.19E+00	3.02E+00	1.35E+00
Sc-47	2.00E-06	1.16E-01	7.55E+01	3.74E+02
Sc-48	6.29E-06	3.63E+00	1.39E+02	3.69E+01
Sc-49	3.03E-07	1.19E-01	6.35E+03	4.96E+04
Se-70	4.44E-07	1.16E+00	8.88E+03	7.81E+03

Output generated 06JUL2010:04:50:47

Default

Resident Building Dose Compliance Concentrations for Settled Dust

Radionuclide	Soil Ingestion DCF (mrem/pCi)	External Exposure DCF (Ground Plane) (mrem/yr per pCi/cm^2)	Lambda	Resident Settled Dust BDCC (pCi/cm^2)
Se-73	7.77E-07	1.25E+00	8.49E+02	6.89E+02
Se-73m	1.04E-07	2.94E-01	9.34E+03	3.26E+04
Se-75	9.62E-06	4.21E-01	2.11E+00	2.87E+00
Se-77m	-	9.07E-02	1.25E+06	1.44E+07
Se-79	1.07E-05	1.91E-05	1.07E-05	2.06E+00
Se-81	9.99E-08	9.50E-02	1.97E+04	2.06E+05
Se-81m	1.96E-07	1.47E-02	6.36E+03	2.77E+05
Se-83	1.74E-07	2.67E+00	1.62E+04	6.30E+03
Si-31	5.92E-07	8.33E-02	2.32E+03	2.17E+04
Si-32	2.07E-06	2.92E-05	1.54E-03	1.07E+01
Si-32+D	1.11E-05	-	1.54E-03	2.00E+00
Si-32+E	1.11E-05	9.94E-02	1.54E-03	1.68E+00
Sm-141	1.44E-07	1.62E+00	3.57E+04	2.29E+04
Sm-141m	2.41E-07	2.21E+00	1.61E+04	7.58E+03
Sm-142	7.03E-07	1.04E-01	5.02E+03	3.81E+04
Sm-145	7.77E-07	6.49E-02	7.44E-01	1.46E+01
Sm-146	2.00E-04	0.00E+00	6.73E-09	1.11E-01
Sm-147	1.81E-04	0.00E+00	6.54E-12	1.22E-01
Sm-151	3.63E-07	4.13E-06	7.70E-03	6.13E+01
Sm-153	2.74E-06	7.12E-02	1.30E+02	6.77E+02
Sm-155	1.07E-07	1.82E-01	1.65E+04	9.19E+04
Sm-156	9.25E-07	1.31E-01	6.46E+02	3.86E+03
Sn-110	1.30E-06	3.23E-01	1.52E+03	4.12E+03
Sn-111	8.51E-08	5.85E-01	1.03E+04	1.83E+04
Sn-113	2.70E-06	1.90E-02	2.20E+00	1.76E+01
Sn-117m	2.63E-06	1.63E-01	1.86E+01	6.75E+01
Sn-119m	1.26E-06	8.72E-03	8.63E-01	2.29E+01
Sn-121	8.51E-07	1.03E-04	2.24E+02	5.82E+03
Sn-121m	1.41E-06	4.20E-03	1.26E-02	1.49E+01

Output generated 06JUL2010:04:50:47

Default

Resident Building Dose Compliance Concentrations for Settled Dust

Radionuclide	Soil Ingestion DCF (mrem/pCi)	External Exposure DCF (Ground Plane) (mrem/yr per pCi/cm^2)	Lambda	Resident Settled Dust BDCC (pCi/cm^2)
Sn-121m+D	2.07E-06	4.28E-03	1.26E-02	1.03E+01
Sn-121m+E	2.07E-06	4.28E-03	1.26E-02	1.03E+01
Sn-123	7.77E-06	7.59E-02	1.96E+00	5.38E+00
Sn-123m	1.41E-07	2.02E-01	9.09E+03	4.55E+04
Sn-125	1.15E-05	4.46E-01	2.62E+01	2.78E+01
Sn-126	1.74E-05	5.62E-02	6.93E-06	1.19E+00
Sn-126+D	1.74E-05	1.87E+00	6.93E-06	3.88E-01
Sn-126+E	1.74E-05	2.31E+00	6.93E-06	3.33E-01
Sn-127	7.40E-07	2.10E+00	2.89E+03	1.41E+03
Sn-128	5.55E-07	7.29E-01	6.16E+03	8.51E+03
Sr-80	1.26E-06	1.87E-03	3.64E+03	6.22E+04
Sr-81	2.85E-07	1.67E+00	1.43E+04	8.86E+03
Sr-82	2.26E-05	1.83E-03	1.01E+01	9.91E+00
Sr-82+D	2.26E-05	1.40E+00	1.01E+01	4.28E+00
Sr-82+E	2.26E-05	1.40E+00	1.01E+01	4.28E+00
Sr-83	1.81E-06	8.88E-01	1.87E+02	2.01E+02
Sr-85	2.07E-06	5.65E-01	3.90E+00	6.27E+00
Sr-85m	2.26E-08	2.36E-01	5.24E+03	2.31E+04
Sr-87m	1.11E-07	3.55E-01	2.16E+03	6.27E+03
Sr-89	9.62E-06	8.01E-02	5.01E+00	9.87E+00
Sr-90	1.04E-04	1.91E-03	2.38E-02	2.16E-01
Sr-90+D	1.04E-04	1.31E-01	2.38E-02	2.11E-01
Sr-90+E	1.04E-04	1.31E-01	2.38E-02	2.11E-01
Sr-91	2.41E-06	8.48E-01	6.39E+02	6.93E+02
Sr-92	1.59E-06	1.44E+00	2.24E+03	1.55E+03
Ta-172	1.96E-07	1.74E+00	9.90E+03	5.90E+03
Ta-173	7.03E-07	6.71E-01	1.66E+03	2.46E+03
Ta-174	2.11E-07	7.18E-01	5.06E+03	7.25E+03
Ta-175	7.77E-07	9.91E-01	5.78E+02	5.87E+02

Output generated 06JUL2010:04:50:47

Default

Resident Building Dose Compliance Concentrations for Settled Dust

Radionuclide	Soil Ingestion DCF (mrem/pCi)	External Exposure DCF (Ground Plane) (mrem/yr per pCi/cm^2)	Lambda	Resident Settled Dust BDCC (pCi/cm^2)
Ta-176	1.15E-06	2.25E+00	7.51E+02	3.40E+02
Ta-177	4.07E-07	6.85E-02	1.07E+02	1.28E+03
Ta-178	-	1.12E-01	3.91E+04	3.64E+05
Ta-178m	2.66E-07	1.11E+00	2.76E+03	2.56E+03
Ta-179	2.41E-07	3.21E-02	3.80E-01	2.89E+01
Ta-180	3.11E-06	6.05E-01	6.93E-14	1.39E+00
Ta-180m	2.00E-07	4.94E-02	7.49E+02	1.33E+04
Ta-182	5.55E-06	1.40E+00	2.20E+00	1.55E+00
Ta-182m	4.44E-08	2.63E-01	2.30E+04	9.06E+04
Ta-183	4.81E-06	3.13E-01	4.96E+01	9.59E+01
Ta-184	2.52E-06	1.81E+00	6.98E+02	3.78E+02
Ta-185	2.52E-07	2.92E-01	7.43E+03	2.55E+04
Ta-186	1.22E-07	1.84E+00	3.47E+04	1.96E+04
Tb-147	5.92E-07	1.81E+00	3.68E+03	2.09E+03
Tb-149	9.25E-07	1.75E+00	1.46E+03	8.50E+02
Tb-150	9.25E-07	1.89E+00	1.86E+03	1.00E+03
Tb-151	1.26E-06	9.78E-01	3.45E+02	3.47E+02
Tb-153	9.25E-07	2.44E-01	1.08E+02	3.92E+02
Tb-154	2.41E-06	2.43E+00	2.84E+02	1.16E+02
Tb-155	7.77E-07	1.46E-01	4.75E+01	2.72E+02
Tb-156	4.44E-06	1.97E+00	4.74E+01	2.26E+01
Tb-156m	6.29E-07	2.58E-02	2.49E+02	4.68E+03
Tb-156n	3.00E-07	3.68E-03	1.21E+03	7.12E+04
Tb-157	1.26E-07	2.57E-03	4.62E-03	1.23E+02
Tb-158	4.07E-06	8.74E-01	4.62E-03	9.81E-01
Tb-160	5.92E-06	1.24E+00	3.50E+00	2.48E+00
Tb-161	2.66E-06	3.44E-02	3.66E+01	2.39E+02
Tc-101	7.03E-08	4.26E-01	2.57E+04	6.23E+04
Tc-104	2.96E-07	2.28E+00	2.00E+04	9.12E+03

Output generated 06JUL2010:04:50:47

Default

Resident Building Dose Compliance Concentrations for Settled Dust

Radionuclide	Soil Ingestion DCF (mrem/pCi)	External Exposure DCF (Ground Plane) (mrem/yr per pCi/cm^2)	Lambda	Resident Settled Dust BDCC (pCi/cm^2)
Tc-93	2.04E-07	1.54E+00	2.21E+03	1.49E+03
Tc-93m	9.25E-08	7.35E-01	8.37E+03	1.18E+04
Tc-94	7.40E-07	2.95E+00	1.24E+03	4.34E+02
Tc-94m	3.70E-07	2.12E+00	7.00E+03	3.41E+03
Tc-95	6.66E-07	8.75E-01	3.04E+02	3.49E+02
Tc-95m	2.07E-06	7.38E-01	4.15E+00	5.26E+00
Tc-96	4.07E-06	2.77E+00	5.91E+01	2.08E+01
Tc-96m	4.44E-08	5.25E-02	7.07E+03	1.35E+05
Tc-97	2.52E-07	5.43E-03	2.67E-07	6.04E+01
Tc-97m	2.04E-06	5.19E-03	2.91E+00	3.18E+01
Tc-98	7.40E-06	1.58E+00	1.65E-07	5.42E-01
Tc-99	2.37E-06	7.55E-05	3.25E-06	9.35E+00
Tc-99m	8.14E-08	1.33E-01	1.01E+03	7.68E+03
Te-116	6.29E-07	7.07E-02	2.44E+03	2.53E+04
Te-121	1.59E-06	6.38E-01	1.49E+01	2.18E+01
Te-121m	8.51E-06	2.31E-01	1.64E+00	3.36E+00
Te-123	1.63E-05	1.66E-02	6.93E-14	1.33E+00
Te-123m	5.18E-06	1.54E-01	2.11E+00	6.30E+00
Te-125m	3.22E-06	3.10E-02	4.36E+00	2.52E+01
Te-127	6.29E-07	1.20E-02	6.49E+02	1.63E+04
Te-127m	8.51E-06	9.99E-03	2.32E+00	6.53E+00
Te-129	2.33E-07	1.33E-01	5.23E+03	3.79E+04
Te-129m	1.11E-05	6.65E-02	7.53E+00	1.33E+01
Te-131	3.22E-07	5.53E-01	1.46E+04	2.67E+04
Te-131m	7.03E-06	1.56E+00	2.02E+02	1.11E+02
Te-132	1.41E-05	2.47E-01	7.76E+01	8.90E+01
Te-133	2.66E-07	1.12E+00	2.93E+04	2.70E+04
Te-133m	1.04E-06	2.61E+00	6.57E+03	2.57E+03
Te-134	4.07E-07	9.90E-01	8.71E+03	9.01E+03

Output generated 06JUL2010:04:50:47

Default

Resident Building Dose Compliance Concentrations for Settled Dust

Radionuclide	Soil Ingestion DCF (mrem/pCi)	External Exposure DCF (Ground Plane) (mrem/yr per pCi/cm^2)	Lambda	Resident Settled Dust BDCC (pCi/cm^2)
Test Isotope	-	-	-	-
Th-226	1.30E-06	8.46E-03	1.18E+04	1.77E+05
Th-227	3.26E-05	1.14E-01	1.35E+01	8.55E+00
Th-228	2.66E-04	2.49E-03	3.62E-01	9.91E-02
Th-229	1.81E-03	9.21E-02	9.44E-05	1.22E-02
Th-229+D	2.26E-03	-	9.44E-05	9.81E-03
Th-229+E	2.26E-03	4.04E-01	9.44E-05	9.78E-03
Th-230	7.77E-04	7.43E-04	9.00E-06	2.85E-02
Th-231	1.26E-06	1.81E-02	2.38E+02	3.21E+03
Th-232	8.51E-04	5.31E-04	4.93E-11	2.60E-02
Th-232+D	-	-	-	-
Th-234	1.26E-05	8.74E-03	1.05E+01	1.82E+01
Th-234+D	1.26E-05	1.41E-01	1.05E+01	1.49E+01
Th-234+E	1.26E-05	1.41E-01	1.05E+01	1.49E+01
Ti-44	2.15E-05	1.38E-01	1.47E-02	9.15E-01
Ti-44+D	2.15E-05	2.57E+00	1.47E-02	2.94E-01
Ti-44+E	2.15E-05	2.57E+00	1.47E-02	2.94E-01
Ti-45	5.55E-07	1.01E+00	1.97E+03	1.98E+03
Tl-194	3.00E-08	8.58E-01	1.10E+04	1.34E+04
Tl-194m	1.48E-07	2.60E+00	1.11E+04	4.44E+03
Tl-195	9.99E-08	1.35E+00	5.23E+03	4.02E+03
Tl-197	8.51E-08	4.40E-01	2.14E+03	5.02E+03
Tl-198	2.70E-07	2.12E+00	1.15E+03	5.59E+02
Tl-198m	2.00E-07	1.32E+00	3.25E+03	2.55E+03
Tl-199	9.62E-08	2.65E-01	8.18E+02	3.17E+03
Tl-200	7.40E-07	1.42E+00	2.33E+02	1.66E+02
Tl-201	3.52E-07	9.29E-02	8.31E+01	7.92E+02
Tl-202	1.67E-06	5.13E-01	2.07E+01	3.64E+01
Tl-204	4.44E-06	1.26E-02	1.83E-01	5.15E+00

Output generated 06JUL2010:04:50:47

Default

Resident Building Dose Compliance Concentrations for Settled Dust

Radionuclide	Soil Ingestion DCF (mrem/pCi)	External Exposure DCF (Ground Plane) (mrem/yr per pCi/cm^2)	Lambda	Resident Settled Dust BDCC (pCi/cm^2)
Tl-206	-	7.08E-02	8.67E+04	1.28E+06
Tl-207	-	6.49E-02	7.64E+04	1.23E+06
Tl-208	-	3.47E+00	1.19E+05	3.57E+04
Tl-209	-	2.24E+00	1.66E+05	7.71E+04
Tm-162	1.07E-07	1.90E+00	1.68E+04	9.18E+03
Tm-166	1.04E-06	1.98E+00	7.88E+02	4.04E+02
Tm-167	2.07E-06	1.53E-01	2.74E+01	1.14E+02
Tm-170	4.81E-06	3.08E-02	1.97E+00	9.27E+00
Tm-171	4.07E-07	6.48E-04	3.61E-01	6.27E+01
Tm-172	6.29E-06	5.68E-01	9.55E+01	1.15E+02
Tm-173	1.15E-06	4.53E-01	7.37E+02	1.52E+03
Tm-175	9.99E-08	1.21E+00	2.40E+04	2.05E+04
U-230	2.07E-04	1.81E-03	1.22E+01	1.30E+00
U-231	1.04E-06	7.47E-02	6.02E+01	5.09E+02
U-232	1.22E-03	9.42E-04	9.63E-03	1.82E-02
U-233	1.89E-04	6.99E-04	4.37E-06	1.17E-01
U-234	1.81E-04	6.84E-04	2.83E-06	1.22E-01
U-235	1.74E-04	1.63E-01	9.85E-10	1.25E-01
U-235+D	-	1.82E-01	9.85E-10	5.73E+00
U-235+E	-	1.82E-01	-	-
U-236	1.74E-04	5.87E-04	2.96E-08	1.27E-01
U-237	2.81E-06	1.44E-01	3.75E+01	1.42E+02
U-238	1.67E-04	4.94E-04	1.55E-10	1.33E-01
U-238+D	1.67E-04	-	1.55E-10	1.33E-01
U-238+E	1.67E-04	1.41E-01	1.55E-10	1.31E-01
U-239	9.99E-08	9.63E-02	1.55E+04	1.60E+05
U-240	4.07E-06	3.72E-03	4.31E+02	2.30E+03
V-47	2.33E-07	1.23E+00	1.12E+04	9.42E+03
V-48	7.40E-06	3.17E+00	1.56E+01	4.61E+00

Output generated 06JUL2010:04:50:47

Default

Resident Building Dose Compliance Concentrations for Settled Dust

Radionuclide	Soil Ingestion DCF (mrem/pCi)	External Exposure DCF (Ground Plane) (mrem/yr per pCi/cm^2)	Lambda	Resident Settled Dust BDCC (pCi/cm^2)
V-49	6.66E-08	0.00E+00	7.67E-01	4.76E+02
W-176	3.70E-07	1.80E-01	2.64E+03	1.40E+04
W-177	2.15E-07	9.78E-01	2.70E+03	2.85E+03
W-178	8.14E-07	1.33E-02	1.17E+01	2.35E+02
W-178+D	8.14E-07	-	1.17E+01	3.17E+02
W-178+E	8.14E-07	-	1.17E+01	3.17E+02
W-179	1.22E-08	5.81E-02	9.71E+03	1.73E+05
W-181	2.81E-07	4.01E-02	2.09E+00	4.65E+01
W-185	1.63E-06	2.00E-04	3.37E+00	4.73E+01
W-187	2.33E-06	5.46E-01	2.54E+02	4.04E+02
W-188	7.77E-06	2.12E-03	3.64E+00	1.06E+01
Xe-120	-	4.68E-01	9.11E+03	2.03E+04
Xe-121	-	1.97E+00	9.08E+03	4.80E+03
Xe-122	-	7.04E-02	3.02E+02	4.48E+03
Xe-123	-	7.04E-01	2.92E+03	4.33E+03
Xe-125	-	2.88E-01	3.57E+02	1.29E+03
Xe-127	-	2.99E-01	6.95E+00	2.43E+01
Xe-129m	-	4.85E-02	3.16E+01	6.79E+02
Xe-131m	-	1.87E-02	2.13E+01	1.19E+03
Xe-133	-	4.61E-02	4.82E+01	1.09E+03
Xe-133m	-	4.12E-02	1.16E+02	2.93E+03
Xe-135	-	2.92E-01	6.68E+02	2.39E+03
Xe-135m	-	4.89E-01	2.38E+04	5.08E+04
Xe-138	-	1.25E+00	2.57E+04	2.15E+04
Y-86	3.55E-06	3.89E+00	4.12E+02	1.06E+02
Y-86m	2.07E-07	2.38E-01	7.59E+03	3.19E+04
Y-87	2.04E-06	5.03E-01	7.56E+01	1.32E+02
Y-88	4.81E-06	2.81E+00	2.37E+00	8.98E-01
Y-90	9.99E-06	1.28E-01	9.49E+01	1.65E+02

Output generated 06JUL2010:04:50:47

Default

Resident Building Dose Compliance Concentrations for Settled Dust

Radionuclide	Soil Ingestion DCF (mrem/pCi)	External Exposure DCF (Ground Plane) (mrem/yr per pCi/cm^2)	Lambda	Resident Settled Dust BDCC (pCi/cm^2)
Y-90m	6.29E-07	6.97E-01	1.90E+03	2.73E+03
Y-91	8.88E-06	8.71E-02	4.32E+00	9.04E+00
Y-91m	4.07E-08	5.95E-01	7.33E+03	1.28E+04
Y-92	1.81E-06	4.47E-01	1.71E+03	3.36E+03
Y-93	4.44E-06	2.45E-01	6.01E+02	1.38E+03
Y-94	3.00E-07	1.39E+00	1.91E+04	1.42E+04
Y-95	1.70E-07	1.06E+00	3.40E+04	3.32E+04
Yb-162	8.51E-08	1.42E-01	1.93E+04	1.37E+05
Yb-166	3.52E-06	8.68E-02	1.07E+02	4.42E+02
Yb-167	2.48E-08	2.77E-01	2.08E+04	7.81E+04
Yb-169	2.63E-06	3.24E-01	7.90E+00	1.84E+01
Yb-175	1.63E-06	4.36E-02	6.04E+01	5.23E+02
Yb-177	3.26E-07	2.53E-01	3.20E+03	1.24E+04
Yb-178	4.44E-07	4.20E-02	4.92E+03	8.16E+04
Zn-62	3.48E-06	4.84E-01	6.56E+02	1.05E+03
Zn-63	2.92E-07	1.35E+00	9.56E+03	7.29E+03
Zn-65	1.44E-05	6.31E-01	1.04E+00	1.28E+00
Zn-69	1.15E-07	2.43E-02	6.39E+03	2.25E+05
Zn-69m	1.22E-06	4.64E-01	4.41E+02	8.81E+02
Zn-71m	8.88E-07	1.80E+00	1.55E+03	8.78E+02
Zn-72	5.18E-06	1.56E-01	1.31E+02	3.40E+02
Zr-86	3.18E-06	2.99E-01	3.68E+02	8.55E+02
Zr-88	1.67E-06	4.40E-01	3.03E+00	6.41E+00
Zr-89	2.92E-06	1.28E+00	7.74E+01	5.68E+01
Zr-93	4.07E-06	0.00E+00	4.53E-07	5.44E+00
Zr-95	3.52E-06	8.22E-01	3.95E+00	4.26E+00
Zr-97	7.77E-06	2.92E-01	3.59E+02	5.70E+02

Output generated 06JUL2010:04:50:47

Default

Resident Equation Inputs for Ambient Air

Variable	Value
DL (dose limit) unitless	1
ICRP Rule	60
t_r (time - resident) yr	1
IR_{ir} (age-adjusted inhalation rate) m^3/day	18
ET_r (exposure time - resident) hours	24
EF_r (exposure frequency) d/yr	350
ED_r (exposure duration - resident) years	1
F_{in} (fraction of time spent indoor) unitless	1
GSF (gamma shielding factor) unitless	1
F_i (fraction of time spent in compartment) unitless	1

Output generated 06JUL2010:04:50:47

Default

Resident Building Dose Compliance Concentrations for Ambient Air

Radionuclide	Inhalation DCF (mrem/pCi)	External Exposure DCF (Submersion) (mrem/yr per pCi/m^3)	Lambda	Resident Ambient Air BDCC (pCi/m^3)	Resident Ambient Air BDCC (no decay) (pCi/m^3)
Ac-223	-	2.18E-05	1.66E+05	-	-
Ac-223+D	-	3.31E-04	1.66E+05	-	-
Ac-223+E	-	3.31E-04	1.66E+05	-	-
Ac-224	4.07E-04	9.35E-04	2.09E+03	8.16E+02	3.90E-01
Ac-225	2.74E-02	7.43E-05	2.53E+01	1.47E-01	5.80E-03
Ac-225+D	2.74E-02	1.20E-03	2.53E+01	1.47E-01	5.80E-03
Ac-225+E	2.74E-02	1.20E-03	2.53E+01	1.47E-01	5.80E-03
Ac-226	4.44E-03	6.50E-04	2.09E+02	7.48E+00	3.57E-02
Ac-227	8.14E-01	5.98E-07	3.18E-02	1.98E-04	1.95E-04
Ac-228	6.29E-05	5.24E-03	9.90E+02	2.47E+03	2.49E+00
Ag-102	6.29E-08	1.83E-02	2.82E+04	1.57E+06	5.57E+01
Ag-103	9.62E-08	4.00E-03	5.54E+03	1.25E+06	2.25E+02
Ag-103+D	1.52E-06	4.01E-03	5.54E+03	4.14E+05	7.46E+01
Ag-104	1.33E-07	1.44E-02	5.26E+03	3.60E+05	6.85E+01
Ag-104m	9.25E-08	6.40E-03	1.09E+04	1.62E+06	1.49E+02
Ag-105	2.70E-06	2.64E-03	6.17E+00	3.16E+02	5.12E+01
Ag-106	5.55E-08	3.71E-03	1.52E+04	3.89E+06	2.56E+02
Ag-106m	4.07E-06	1.51E-02	3.01E+01	7.50E+02	2.50E+01
Ag-108	-	1.46E-04	1.54E+05	-	-
Ag-108m	2.74E-05	8.45E-03	5.46E-03	5.55E+00	5.54E+00
Ag-108m+D	-	8.46E-03	-	-	-
Ag-108m+E	-	8.46E-03	-	-	-
Ag-109m	-	1.86E-05	5.52E+05	-	-
Ag-110	-	2.87E-04	8.88E+05	-	-
Ag-110m	2.81E-05	1.48E-02	1.01E+00	8.31E+00	5.23E+00
Ag-110m+D	-	1.48E-02	-	-	-
Ag-110m+E	-	1.48E-02	-	-	-
Ag-111	5.55E-06	1.61E-04	3.40E+01	9.67E+02	2.85E+01
Ag-112	5.92E-07	3.77E-03	1.95E+03	2.65E+05	1.36E+02
Ag-115	9.99E-08	4.04E-03	1.82E+04	4.05E+06	2.22E+02

Output generated 06JUL2010:04:50:47

Default

Resident Building Dose Compliance Concentrations for Ambient Air

Radionuclide	Inhalation DCF (mrem/pCi)	External Exposure DCF (Submersion) (mrem/yr per pCi/m^3)	Lambda	Resident Ambient Air BDCC (pCi/m^3)	Resident Ambient Air BDCC (no decay) (pCi/m^3)
Al-26	7.40E-05	1.49E-02	9.68E-07	2.08E+00	2.08E+00
Al-28	-	1.04E-02	1.63E+05	-	-
Am-237	9.25E-08	1.81E-03	4.99E+03	2.15E+06	4.32E+02
Am-238	3.33E-07	4.71E-03	3.72E+03	5.62E+05	1.51E+02
Am-239	8.14E-07	1.08E-03	5.10E+02	8.28E+04	1.62E+02
Am-240	1.59E-06	5.45E-03	1.20E+02	7.84E+03	6.56E+01
Am-241	1.55E-01	7.87E-05	1.60E-03	1.02E-03	1.02E-03
Am-242	6.29E-05	7.11E-05	3.79E+02	9.56E+02	2.52E+00
Am-242m	1.37E-01	2.91E-06	4.56E-03	1.16E-03	1.16E-03
Am-242m+D	1.37E-01	8.79E-05	4.56E-03	1.16E-03	1.16E-03
Am-242m+E	1.52E-01	8.82E-05	4.56E-03	1.05E-03	1.05E-03
Am-243	1.52E-01	2.16E-04	9.39E-05	1.05E-03	1.05E-03
Am-243+D	1.52E-01	1.03E-03	9.39E-05	1.05E-03	1.05E-03
Am-243+E	1.52E-01	1.03E-03	9.39E-05	1.05E-03	1.05E-03
Am-244	7.40E-06	4.19E-03	6.01E+02	1.19E+04	1.97E+01
Am-244m	3.11E-07	4.24E-05	1.40E+04	7.01E+06	5.00E+02
Am-245	1.96E-07	1.69E-04	2.96E+03	2.12E+06	7.15E+02
Am-246	2.44E-07	3.57E-03	9.34E+03	1.88E+06	2.02E+02
Am-246m	8.14E-08	5.53E-03	1.46E+04	2.50E+06	1.72E+02
Ar-37	-	0.00E+00	7.22E+00	-	-
Ar-39	-	1.34E-05	2.58E-03	-	-
Ar-41	-	7.17E-03	3.32E+03	-	-
As-69	7.77E-08	5.38E-03	2.40E+04	4.24E+06	1.77E+02
As-69+D	1.15E-06	1.00E-02	2.40E+04	1.42E+06	5.93E+01
As-70	2.48E-07	2.24E-02	6.92E+03	3.00E+05	4.34E+01
As-71	1.48E-06	2.95E-03	9.37E+01	7.71E+03	8.23E+01
As-71+D	-	2.95E-03	-	-	-
As-72	3.33E-06	9.64E-03	2.33E+02	7.73E+03	3.31E+01
As-73	3.70E-06	1.81E-05	3.15E+00	1.41E+02	4.29E+01
As-74	7.77E-06	3.97E-03	1.42E+01	2.70E+02	1.90E+01

Output generated 06JUL2010:04:50:47

Default

Resident Building Dose Compliance Concentrations for Ambient Air

Radionuclide	Inhalation DCF (mrem/pCi)	External Exposure DCF (Submersion) (mrem/yr per pCi/m^3)	Lambda	Resident Ambient Air BDCC (pCi/m^3)	Resident Ambient Air BDCC (no decay) (pCi/m^3)
As-76	2.74E-06	2.40E-03	2.31E+02	1.18E+04	5.11E+01
As-77	1.44E-06	5.94E-05	1.56E+02	1.71E+04	1.09E+02
As-78	3.29E-07	7.04E-03	4.02E+03	4.55E+05	1.13E+02
At-207	8.51E-06	7.11E-03	3.37E+03	5.58E+04	1.65E+01
At-211	4.07E-04	1.60E-04	8.42E+02	3.28E+02	3.90E-01
At-211+D	4.07E-04	1.84E-04	8.42E+02	3.28E+02	3.90E-01
At-211+E	4.07E-04	3.62E-03	8.42E+02	3.28E+02	3.89E-01
At-215	-	9.93E-07	2.19E+11	-	-
At-216	-	6.28E-06	7.28E+10	-	-
At-217	-	1.60E-06	6.77E+08	-	-
At-218	-	1.13E-05	1.09E+07	-	-
Au-193	4.07E-07	7.04E-04	3.44E+02	1.06E+05	3.09E+02
Au-194	8.51E-07	5.76E-03	1.54E+02	1.41E+04	9.18E+01
Au-195	4.07E-06	3.19E-04	1.38E+00	7.11E+01	3.85E+01
Au-195m	-	9.94E-04	7.17E+05	-	-
Au-198	2.89E-06	2.11E-03	9.38E+01	4.64E+03	4.95E+01
Au-198m	6.66E-06	2.79E-03	1.10E+02	2.46E+03	2.24E+01
Au-199	2.63E-06	4.28E-04	8.06E+01	4.75E+03	5.90E+01
Au-200	1.22E-07	1.54E-03	7.53E+03	3.35E+06	4.45E+02
Au-200m	2.52E-06	1.09E-02	3.25E+02	1.24E+04	3.81E+01
Au-201	6.29E-08	3.06E-04	1.38E+04	2.00E+07	1.45E+03
Ba-126	3.70E-07	7.48E-04	3.77E+03	1.24E+06	3.28E+02
Ba-128	4.81E-06	2.96E-04	1.04E+02	3.40E+03	3.27E+01
Ba-131	2.81E-06	2.24E-03	2.14E+01	1.08E+03	5.03E+01
Ba-131m	2.74E-08	3.08E-04	2.49E+04	5.33E+07	2.14E+03
Ba-133	1.15E-05	1.89E-03	6.45E-02	1.39E+01	1.35E+01
Ba-133m	1.55E-06	2.85E-04	1.56E+02	1.55E+04	9.94E+01
Ba-135m	1.22E-06	2.52E-04	2.12E+02	2.67E+04	1.26E+02
Ba-137m	-	3.14E-03	1.43E+05	-	-
Ba-139	2.07E-07	2.96E-04	4.40E+03	2.77E+06	6.29E+02

Output generated 06JUL2010:04:50:47

Default

Resident Building Dose Compliance Concentrations for Ambient Air

Radionuclide	Inhalation DCF (mrem/pCi)	External Exposure DCF (Submersion) (mrem/yr per pCi/m^3)	Lambda	Resident Ambient Air BDCC (pCi/m^3)	Resident Ambient Air BDCC (no decay) (pCi/m^3)
Ba-140	1.89E-05	9.42E-04	1.99E+01	1.66E+02	8.35E+00
Ba-141	1.18E-07	4.57E-03	1.99E+04	3.88E+06	1.95E+02
Ba-142	7.77E-08	5.65E-03	3.44E+04	5.82E+06	1.69E+02
Be-10	3.55E-05	1.61E-05	4.33E-07	4.47E+00	4.47E+00
Be-7	1.85E-07	2.56E-04	4.75E+00	3.39E+03	7.09E+02
Bi-200	1.22E-07	1.26E-02	1.00E+04	7.78E+05	7.78E+01
Bi-201	2.44E-07	7.10E-03	3.37E+03	4.04E+05	1.20E+02
Bi-202	2.04E-07	1.45E-02	3.64E+03	2.40E+05	6.60E+01
Bi-203	9.62E-07	1.32E-02	5.16E+02	2.76E+04	5.35E+01
Bi-205	3.44E-06	9.31E-03	1.65E+01	5.40E+02	3.27E+01
Bi-206	6.29E-06	1.76E-02	4.05E+01	7.17E+02	1.77E+01
Bi-207	2.07E-05	8.22E-03	1.82E-02	7.29E+00	7.22E+00
Bi-210	3.44E-04	3.01E-05	5.05E+01	2.33E+01	4.61E-01
Bi-210m	1.26E-02	1.31E-03	2.31E-07	1.26E-02	1.26E-02
Bi-210m+D	-	1.35E-03	-	-	-
Bi-210m+E	-	1.35E-03	-	-	-
Bi-211	-	2.38E-04	1.70E+05	-	-
Bi-212	1.15E-04	1.04E-03	6.02E+03	8.31E+03	1.38E+00
Bi-212+D	1.15E-04	8.12E-03	6.02E+03	8.24E+03	1.37E+00
Bi-212+E	1.15E-04	8.12E-03	6.02E+03	8.24E+03	1.37E+00
Bi-213	1.11E-04	7.19E-04	7.98E+03	1.14E+04	1.43E+00
Bi-213+D	1.11E-04	9.73E-04	7.98E+03	1.14E+04	1.43E+00
Bi-213+E	1.11E-04	9.73E-04	7.98E+03	1.14E+04	1.43E+00
Bi-214	5.18E-05	8.46E-03	1.83E+04	5.47E+04	2.99E+00
Bi-214+D	-	8.46E-03	-	-	-
Bi-214+E	1.67E-02	8.50E-03	1.83E+04	1.74E+02	9.53E-03
Bk-245	7.77E-06	1.08E-03	5.12E+01	1.02E+03	2.00E+01
Bk-246	1.22E-06	4.98E-03	1.38E+02	1.11E+04	8.02E+01
Bk-247	2.55E-01	4.90E-04	5.02E-04	6.22E-04	6.22E-04
Bk-249	5.92E-04	5.46E-08	7.90E-01	3.88E-01	2.68E-01

Output generated 06JUL2010:04:50:47

Default

Resident Building Dose Compliance Concentrations for Ambient Air

Radionuclide	Inhalation DCF (mrem/pCi)	External Exposure DCF (Submersion) (mrem/yr per pCi/m^3)	Lambda	Resident Ambient Air BDCC (pCi/m^3)	Resident Ambient Air BDCC (no decay) (pCi/m^3)
Bk-250	3.70E-06	4.81E-03	1.88E+03	6.75E+04	3.58E+01
Br-74	1.41E-07	2.64E-02	1.44E+04	5.50E+05	3.82E+01
Br-74m	2.29E-07	2.29E-02	8.78E+03	3.75E+05	4.28E+01
Br-75	1.96E-07	6.34E-03	3.72E+03	5.08E+05	1.37E+02
Br-76	1.52E-06	1.47E-02	3.75E+02	1.58E+04	4.23E+01
Br-77	3.11E-07	1.63E-03	1.08E+02	3.08E+04	2.84E+02
Br-80	3.48E-08	4.35E-04	2.09E+04	3.29E+07	1.57E+03
Br-80m	2.81E-07	2.77E-05	1.37E+03	7.64E+05	5.56E+02
Br-82	2.33E-06	1.41E-02	1.72E+02	6.09E+03	3.54E+01
Br-83	1.78E-07	6.23E-05	2.54E+03	2.16E+06	8.48E+02
Br-84	1.37E-07	1.05E-02	1.15E+04	1.05E+06	9.13E+01
Ca-41	3.52E-07	0.00E+00	4.95E-06	4.52E+02	4.52E+02
Ca-45	9.99E-06	1.79E-06	1.55E+00	3.13E+01	1.59E+01
Ca-47	7.03E-06	5.91E-03	5.58E+01	1.12E+03	2.00E+01
Ca-49	-	1.94E-02	4.18E+04	-	-
Cd-104	1.26E-07	1.21E-03	6.31E+03	3.23E+06	5.11E+02
Cd-107	3.07E-07	5.96E-05	9.35E+02	4.70E+05	5.02E+02
Cd-109	2.44E-05	2.66E-05	5.45E-01	8.43E+00	6.50E+00
Cd-113	2.04E-04	2.95E-06	7.45E-17	5.24E-01	7.80E-01
Cd-113m	1.92E-04	1.06E-05	5.10E-02	8.46E-01	8.25E-01
Cd-115	3.63E-06	1.23E-03	1.14E+02	4.73E+03	4.16E+01
Cd-115m	2.29E-05	1.73E-04	5.67E+00	3.93E+01	6.91E+00
Cd-117	5.92E-07	6.00E-03	2.44E+03	2.57E+05	1.05E+02
Cd-117m	7.40E-07	1.15E-02	1.81E+03	1.15E+05	6.36E+01
Ce-134	4.81E-06	4.11E-05	8.43E+01	2.78E+03	3.30E+01
Ce-135	1.78E-06	9.25E-03	3.45E+02	1.72E+04	4.98E+01
Ce-137	3.63E-08	8.52E-05	6.75E+02	2.17E+06	3.22E+03
Ce-137m	1.52E-06	2.14E-04	1.76E+02	1.81E+04	1.02E+02
Ce-139	6.29E-06	6.97E-04	1.84E+00	5.42E+01	2.48E+01
Ce-141	1.18E-05	3.62E-04	7.78E+00	1.04E+02	1.33E+01

Output generated 06JUL2010:04:50:47

Default

Resident Building Dose Compliance Concentrations for Ambient Air

Radionuclide	Inhalation DCF (mrem/pCi)	External Exposure DCF (Submersion) (mrem/yr per pCi/m^3)	Lambda	Resident Ambient Air BDCC (pCi/m^3)	Resident Ambient Air BDCC (no decay) (pCi/m^3)
Ce-143	2.78E-06	1.41E-03	1.84E+02	9.77E+03	5.31E+01
Ce-144	1.33E-04	8.90E-05	8.90E-01	1.80E+00	1.19E+00
Ce-144+D	1.33E-04	3.98E-04	8.90E-01	1.80E+00	1.19E+00
Ce-144+E	1.33E-04	3.98E-04	8.90E-01	1.80E+00	1.19E+00
Cf-244	5.18E-05	5.53E-07	1.88E+04	5.75E+04	3.06E+00
Cf-246	1.67E-03	4.57E-07	1.70E+02	1.62E+01	9.53E-02
Cf-248	3.26E-02	3.79E-07	7.58E-01	6.96E-03	4.88E-03
Cf-249	2.59E-01	1.69E-03	1.98E-03	6.13E-04	6.13E-04
Cf-250	1.26E-01	3.61E-07	5.30E-02	1.30E-03	1.26E-03
Cf-251	2.63E-01	5.85E-04	7.72E-04	6.04E-04	6.04E-04
Cf-252	7.40E-02	2.70E-03	2.63E-01	2.44E-03	2.14E-03
Cf-253	4.81E-03	2.04E-06	1.42E+01	4.69E-01	3.30E-02
Cf-254	1.52E-01	9.86E-02	4.18E+00	4.44E-03	1.05E-03
Cl-36	2.70E-05	1.94E-05	2.30E-06	5.88E+00	5.88E+00
Cl-38	1.67E-07	8.85E-03	9.79E+03	1.03E+06	1.05E+02
Cl-39	1.70E-07	8.05E-03	6.55E+03	7.45E+05	1.14E+02
Cm-238	1.67E-05	3.33E-04	2.53E+03	2.40E+04	9.50E+00
Cm-240	1.18E-02	4.87E-07	9.37E+00	1.26E-01	1.34E-02
Cm-241	1.37E-04	2.46E-03	7.71E+00	8.92E+00	1.16E+00
Cm-242	1.92E-02	4.69E-07	1.55E+00	1.63E-02	8.25E-03
Cm-243	1.15E-01	6.19E-04	2.43E-02	1.40E-03	1.38E-03
Cm-244	9.99E-02	3.97E-07	3.83E-02	1.62E-03	1.59E-03
Cm-245	1.55E-01	4.07E-04	8.15E-05	1.02E-03	1.02E-03
Cm-246	1.55E-01	3.62E-07	1.47E-04	1.02E-03	1.02E-03
Cm-247	1.44E-01	1.61E-03	4.44E-08	1.10E-03	1.10E-03
Cm-247+D	-	1.73E-03	-	-	-
Cm-247+E	-	1.73E-03	-	-	-
Cm-248	5.55E-01	7.74E-03	1.99E-06	2.86E-04	2.86E-04
Cm-249	1.22E-07	1.19E-04	5.68E+03	6.43E+06	1.13E+03
Cm-250	3.11E+00	5.71E-02	7.14E-05	5.11E-05	5.11E-05

Output generated 06JUL2010:04:50:47

Default

Resident Building Dose Compliance Concentrations for Ambient Air

Radionuclide	Inhalation DCF (mrem/pCi)	External Exposure DCF (Submersion) (mrem/yr per pCi/m^3)	Lambda	Resident Ambient Air BDCC (pCi/m^3)	Resident Ambient Air BDCC (no decay) (pCi/m^3)
Cm-250+D	3.11E+00	-	7.14E-05	-	-
Cm-250+E	3.11E+00	5.86E-02	7.14E-05	5.11E-05	5.11E-05
Co-55	1.85E-06	1.07E-02	3.46E+02	1.58E+04	4.57E+01
Co-56	1.78E-05	2.02E-02	3.21E+00	2.55E+01	7.62E+00
Co-57	2.04E-06	5.80E-04	9.34E-01	1.15E+02	7.48E+01
Co-58	5.92E-06	5.18E-03	3.57E+00	8.70E+01	2.37E+01
Co-58m	4.81E-08	7.07E-09	6.63E+02	2.19E+06	3.30E+03
Co-60	3.70E-05	1.39E-02	1.31E-01	4.33E+00	4.06E+00
Co-60m	4.44E-09	2.33E-05	3.48E+04	6.91E+08	1.99E+04
Co-61	1.74E-07	4.36E-04	3.68E+03	2.43E+06	6.60E+02
Co-62m	7.40E-08	1.52E-02	2.62E+04	1.74E+06	6.66E+01
Cr-48	7.40E-07	2.18E-03	2.64E+02	3.91E+04	1.48E+02
Cr-49	1.22E-07	5.46E-03	8.65E+03	1.44E+06	1.66E+02
Cr-51	1.18E-07	1.61E-04	9.13E+00	1.01E+04	1.11E+03
Cs-125	4.44E-08	3.51E-03	8.09E+03	2.22E+06	2.74E+02
Cs-126	-	5.79E-03	2.22E+05	-	-
Cs-127	7.40E-08	2.08E-03	9.71E+02	3.95E+05	4.07E+02
Cs-128	-	4.74E-03	9.34E+04	-	-
Cs-129	1.55E-07	1.32E-03	1.89E+02	8.44E+04	4.46E+02
Cs-130	2.89E-08	2.68E-03	1.22E+04	4.42E+06	3.63E+02
Cs-131	9.99E-08	2.78E-05	2.61E+01	3.98E+04	1.52E+03
Cs-132	8.51E-07	3.63E-03	3.91E+01	4.42E+03	1.13E+02
Cs-134	2.44E-05	8.24E-03	3.36E-01	7.28E+00	6.18E+00
Cs-134m	5.18E-08	9.28E-05	2.09E+03	5.04E+06	2.41E+03
Cs-135	2.55E-06	1.11E-06	3.01E-07	6.22E+01	6.22E+01
Cs-135m	4.44E-08	8.46E-03	6.87E+03	8.19E+05	1.19E+02
Cs-136	4.44E-06	1.16E-02	1.93E+01	4.94E+02	2.56E+01
Cs-137	1.70E-05	1.08E-05	2.31E-02	9.43E+00	9.33E+00
Cs-137+D	1.70E-05	2.98E-03	2.31E-02	9.19E+00	9.08E+00
Cs-137+E	1.70E-05	2.98E-03	2.31E-02	9.19E+00	9.08E+00

Output generated 06JUL2010:04:50:47

Default

Resident Building Dose Compliance Concentrations for Ambient Air

Radionuclide	Inhalation DCF (mrem/pCi)	External Exposure DCF (Submersion) (mrem/yr per pCi/m^3)	Lambda	Resident Ambient Air BDCC (pCi/m^3)	Resident Ambient Air BDCC (no decay) (pCi/m^3)
Cs-138	8.88E-08	1.34E-02	1.13E+04	8.42E+05	7.45E+01
Cu-60	1.22E-07	2.18E-02	1.57E+04	7.24E+05	4.61E+01
Cu-61	2.74E-07	4.34E-03	1.78E+03	3.03E+05	1.70E+02
Cu-62	-	5.37E-03	3.74E+04	-	-
Cu-64	4.07E-07	9.92E-04	4.78E+02	1.36E+05	2.84E+02
Cu-66	-	5.71E-04	7.14E+04	-	-
Cu-67	2.04E-06	5.72E-04	9.81E+01	7.34E+03	7.48E+01
Dy-155	2.85E-07	2.99E-03	6.07E+02	1.30E+05	2.15E+02
Dy-157	1.11E-07	1.73E-03	7.49E+02	3.18E+05	4.25E+02
Dy-159	1.37E-06	1.16E-04	1.75E+00	2.43E+02	1.14E+02
Dy-165	2.22E-07	1.58E-04	2.60E+03	1.68E+06	6.45E+02
Dy-166	7.03E-06	1.41E-04	7.44E+01	1.67E+03	2.25E+01
Er-161	1.78E-07	4.80E-03	1.87E+03	3.28E+05	1.75E+02
Er-165	2.92E-08	1.05E-04	5.86E+02	2.06E+06	3.52E+03
Er-169	3.70E-06	3.47E-06	2.72E+01	1.17E+03	4.29E+01
Er-171	8.14E-07	1.91E-03	8.07E+02	1.16E+05	1.44E+02
Er-172	4.07E-06	2.67E-03	1.23E+02	4.37E+03	3.55E+01
Es-250	2.33E-06	2.05E-03	2.89E+03	1.74E+05	6.00E+01
Es-251	7.77E-06	4.26E-04	1.84E+02	3.73E+03	2.03E+01
Es-253	9.99E-03	1.87E-06	1.24E+01	1.96E-01	1.59E-02
Es-254	3.18E-02	1.83E-05	9.17E-01	7.62E-03	4.99E-03
Es-254+D	3.18E-02	4.83E-03	9.17E-01	7.62E-03	4.99E-03
Es-254+E	1.59E-01	4.83E-03	9.17E-01	1.52E-03	9.98E-04
Es-254m	1.74E-03	2.46E-03	1.54E+02	1.41E+01	9.13E-02
Eu-145	2.04E-06	7.91E-03	4.26E+01	2.09E+03	4.90E+01
Eu-146	2.96E-06	1.34E-02	5.49E+01	1.74E+03	3.17E+01
Eu-147	4.07E-06	2.50E-03	1.05E+01	3.76E+02	3.57E+01
Eu-148	9.62E-06	1.15E-02	4.64E+00	6.54E+01	1.40E+01
Eu-149	1.07E-06	2.28E-04	2.72E+00	4.17E+02	1.43E+02
Eu-150	1.96E-04	7.75E-03	2.03E-02	8.13E-01	8.05E-01

Output generated 06JUL2010:04:50:47

Default

Resident Building Dose Compliance Concentrations for Ambient Air

Radionuclide	Inhalation DCF (mrem/pCi)	External Exposure DCF (Submersion) (mrem/yr per pCi/m^3)	Lambda	Resident Ambient Air BDCC (pCi/m^3)	Resident Ambient Air BDCC (no decay) (pCi/m^3)
Eu-150m	7.03E-07	2.59E-04	4.81E+02	1.03E+05	2.14E+02
Eu-152	1.55E-04	6.16E-03	5.20E-02	1.04E+00	1.02E+00
Eu-152m	8.14E-07	1.59E-03	6.51E+02	9.79E+04	1.50E+02
Eu-154	1.96E-04	6.71E-03	7.88E-02	8.37E-01	8.05E-01
Eu-155	2.55E-05	2.50E-04	1.40E-01	6.65E+00	6.21E+00
Eu-156	1.26E-05	7.45E-03	1.67E+01	1.93E+02	1.16E+01
Eu-157	1.04E-06	1.27E-03	4.01E+02	5.17E+04	1.29E+02
Eu-158	1.74E-07	5.84E-03	7.94E+03	1.19E+06	1.49E+02
F-18	2.07E-07	5.32E-03	3.32E+03	5.18E+05	1.56E+02
Fe-52	2.22E-06	3.82E-03	7.34E+02	4.16E+04	5.67E+01
Fe-55	1.41E-06	0.00E+00	2.57E-01	1.28E+02	1.13E+02
Fe-59	1.37E-05	6.56E-03	5.68E+00	6.16E+01	1.08E+01
Fe-60	5.18E-04	2.09E-07	6.93E-06	3.06E-01	3.06E-01
Fe-60+D	5.18E-04	2.36E-05	6.93E-06	3.06E-01	3.06E-01
Fe-60+E	5.18E-04	2.36E-05	6.93E-06	3.06E-01	3.06E-01
Fm-252	1.18E-03	4.03E-07	2.67E+02	3.59E+01	1.34E-01
Fm-253	1.48E-03	3.64E-04	8.43E+01	9.04E+00	1.07E-01
Fm-254	2.26E-04	5.55E-07	1.87E+03	1.32E+03	7.03E-01
Fm-255	9.99E-04	1.03E-05	3.02E+02	4.81E+01	1.59E-01
Fm-257	2.63E-02	4.84E-04	2.52E+00	1.65E-02	6.04E-03
Fr-219	-	1.79E-05	1.04E+09	-	-
Fr-220	-	5.13E-05	7.98E+05	-	-
Fr-220+D	-	8.18E-03	7.98E+05	-	-
Fr-220+E	-	8.18E-03	7.98E+05	-	-
Fr-221	-	1.54E-04	7.59E+04	-	-
Fr-221+D	-	1.13E-03	7.59E+04	-	-
Fr-221+E	-	1.13E-03	7.59E+04	-	-
Fr-222	5.18E-05	6.76E-05	2.53E+04	7.75E+04	3.06E+00
Fr-223	3.29E-06	2.57E-04	1.67E+04	7.96E+05	4.76E+01
Ga-65	6.29E-08	6.16E-03	2.40E+04	3.80E+06	1.59E+02

Output generated 06JUL2010:04:50:47

Default

Resident Building Dose Compliance Concentrations for Ambient Air

Radionuclide	Inhalation DCF (mrem/pCi)	External Exposure DCF (Submersion) (mrem/yr per pCi/m^3)	Lambda	Resident Ambient Air BDCC (pCi/m^3)	Resident Ambient Air BDCC (no decay) (pCi/m^3)
Ga-66	1.63E-06	1.44E-02	6.46E+02	2.69E+04	4.16E+01
Ga-67	8.88E-07	7.57E-04	7.76E+01	1.23E+04	1.58E+02
Ga-68	1.81E-07	5.01E-03	5.36E+03	9.01E+05	1.68E+02
Ga-70	5.92E-08	9.80E-05	1.72E+04	3.69E+07	2.14E+03
Ga-72	1.96E-06	1.53E-02	4.31E+02	1.59E+04	3.70E+01
Ga-73	5.18E-07	1.62E-03	1.24E+03	2.57E+05	2.08E+02
Gd-145	7.40E-08	1.27E-02	1.59E+04	1.26E+06	7.90E+01
Gd-146	2.37E-05	1.00E-03	5.24E+00	3.51E+01	6.66E+00
Gd-147	1.48E-06	6.98E-03	1.59E+02	9.95E+03	6.24E+01
Gd-148	4.07E-02	0.00E+00	7.45E-03	3.91E-03	3.90E-03
Gd-149	2.70E-06	2.04E-03	2.69E+01	1.42E+03	5.27E+01
Gd-151	3.18E-06	2.19E-04	2.11E+00	1.18E+02	4.94E+01
Gd-152	2.96E-02	0.00E+00	6.42E-15	5.34E-03	5.36E-03
Gd-153	7.77E-06	3.63E-04	1.05E+00	3.27E+01	2.03E+01
Gd-159	9.99E-07	2.52E-04	3.27E+02	5.00E+04	1.53E+02
Ge-66	3.37E-07	3.50E-03	2.67E+03	4.88E+05	1.83E+02
Ge-67	9.25E-08	7.53E-03	1.95E+04	2.50E+06	1.28E+02
Ge-68	5.18E-05	1.18E-08	8.78E-01	4.60E+00	3.06E+00
Ge-68+D	5.18E-05	5.01E-03	8.78E-01	4.54E+00	3.02E+00
Ge-68+E	5.18E-05	5.01E-03	8.78E-01	4.54E+00	3.02E+00
Ge-69	1.07E-06	4.66E-03	1.55E+02	1.38E+04	8.91E+01
Ge-71	4.07E-08	1.19E-08	2.14E+01	8.36E+04	3.90E+03
Ge-75	1.33E-07	2.08E-04	4.40E+03	4.24E+06	9.63E+02
Ge-77	1.37E-06	5.81E-03	5.37E+02	3.78E+04	7.04E+01
Ge-78	3.52E-07	1.44E-03	4.19E+03	1.17E+06	2.78E+02
Hf-170	1.18E-06	2.67E-03	3.79E+02	3.78E+04	9.98E+01
Hf-172	7.40E-05	3.97E-04	3.71E-01	2.56E+00	2.14E+00
Hf-173	5.92E-07	1.94E-03	2.53E+02	4.53E+04	1.79E+02
Hf-175	4.44E-06	1.80E-03	3.61E+00	1.25E+02	3.37E+01
Hf-177m	3.33E-07	1.13E-02	7.09E+03	5.49E+05	7.74E+01

Output generated 06JUL2010:04:50:47

Default

Resident Building Dose Compliance Concentrations for Ambient Air

Radionuclide	Inhalation DCF (mrem/pCi)	External Exposure DCF (Submersion) (mrem/yr per pCi/m^3)	Lambda	Resident Ambient Air BDCC (pCi/m^3)	Resident Ambient Air BDCC (no decay) (pCi/m^3)
Hf-178m	4.44E-04	1.20E-02	2.24E-02	3.60E-01	3.56E-01
Hf-179m	1.41E-05	4.48E-03	1.01E+01	1.09E+02	1.08E+01
Hf-180m	4.81E-07	5.05E-03	1.10E+03	1.40E+05	1.27E+02
Hf-181	1.85E-05	2.82E-03	5.97E+00	5.02E+01	8.39E+00
Hf-182	4.81E-04	1.20E-03	7.70E-08	3.30E-01	3.30E-01
Hf-182+D	-	-	7.70E-08	-	-
Hf-182+E	4.81E-04	8.19E-03	7.70E-08	3.29E-01	3.29E-01
Hf-182m	1.70E-07	4.76E-03	5.92E+03	1.05E+06	1.77E+02
Hf-183	2.11E-07	3.96E-03	5.69E+03	1.11E+06	1.95E+02
Hf-184	1.22E-06	1.21E-03	1.47E+03	1.66E+05	1.13E+02
Ho-155	7.40E-08	1.93E-03	7.59E+03	3.28E+06	4.32E+02
Ho-157	1.55E-08	2.38E-03	2.89E+04	1.21E+07	4.20E+02
Ho-159	2.26E-08	1.67E-03	1.10E+04	6.33E+06	5.74E+02
Ho-161	2.22E-08	1.63E-04	2.43E+03	8.19E+06	3.37E+03
Ho-162	1.04E-08	7.82E-04	2.43E+04	2.98E+07	1.23E+03
Ho-162m	7.77E-08	2.96E-03	5.36E+03	1.61E+06	3.00E+02
Ho-164	3.11E-08	9.37E-05	1.26E+04	4.40E+07	3.50E+03
Ho-164m	4.44E-08	1.24E-04	9.71E+03	2.44E+07	2.51E+03
Ho-166	2.41E-06	2.01E-04	2.27E+02	1.48E+04	6.52E+01
Ho-166m	4.44E-04	9.15E-03	5.78E-04	3.56E-01	3.56E-01
Ho-167	2.63E-07	1.86E-03	1.96E+03	5.70E+05	2.91E+02
I-122	-	5.03E-03	1.01E+05	-	-
In-109	1.55E-07	3.48E-03	1.45E+03	3.35E+05	2.32E+02
In-110	4.81E-07	1.62E-02	1.24E+03	6.67E+04	5.38E+01
In-110m	1.74E-07	8.34E-03	5.27E+03	5.79E+05	1.10E+02
In-111	8.51E-07	1.96E-03	8.94E+01	1.23E+04	1.38E+02
In-112	2.74E-08	1.39E-03	2.53E+04	1.68E+07	6.65E+02
In-113m	7.40E-08	1.31E-03	3.66E+03	2.13E+06	5.82E+02
In-114	-	1.86E-05	3.04E+05	-	-
In-114m	2.26E-05	4.54E-04	5.11E+00	3.60E+01	7.01E+00

Output generated 06JUL2010:04:50:47

Default

Resident Building Dose Compliance Concentrations for Ambient Air

Radionuclide	Inhalation DCF (mrem/pCi)	External Exposure DCF (Submersion) (mrem/yr per pCi/m^3)	Lambda	Resident Ambient Air BDCC (pCi/m^3)	Resident Ambient Air BDCC (no decay) (pCi/m^3)
In-114m+D	4.44E-05	4.71E-04	5.11E+00	1.83E+01	3.57E+00
In-114m+E	4.44E-05	4.71E-04	5.11E+00	1.83E+01	3.57E+00
In-115	5.92E-04	7.64E-06	1.36E-16	3.28E-01	2.68E-01
In-115m	2.18E-07	8.01E-04	1.35E+03	6.31E+05	4.67E+02
In-116m	1.67E-07	1.38E-02	6.73E+03	4.72E+05	7.02E+01
In-117	1.07E-07	3.57E-03	8.32E+03	2.03E+06	2.44E+02
In-117m	2.66E-07	4.75E-04	3.13E+03	1.47E+06	4.69E+02
In-119	-	4.12E-03	1.52E+05	-	-
In-119m	6.29E-08	1.47E-04	2.02E+04	3.77E+07	1.86E+03
Ir-182	8.51E-08	7.08E-03	2.43E+04	3.31E+06	1.36E+02
Ir-184	4.07E-07	1.02E-02	2.01E+03	1.63E+05	8.09E+01
Ir-185	6.66E-07	3.20E-03	4.34E+02	5.97E+04	1.38E+02
Ir-186	1.15E-06	8.76E-03	3.84E+02	2.46E+04	6.40E+01
Ir-186m	1.55E-07	5.05E-03	3.47E+03	5.96E+05	1.72E+02
Ir-187	2.74E-07	1.80E-03	5.78E+02	1.68E+05	2.90E+02
Ir-188	1.48E-06	8.78E-03	1.46E+02	8.25E+03	5.64E+01
Ir-189	1.92E-06	3.23E-04	1.90E+01	1.53E+03	8.04E+01
Ir-190	7.77E-06	7.38E-03	2.09E+01	3.73E+02	1.78E+01
Ir-190m	-	1.61E-08	5.06E+03	-	-
Ir-190n	-	7.95E-03	1.96E+03	-	-
Ir-191m	-	3.06E-04	4.42E+06	-	-
Ir-192	1.92E-05	4.21E-03	3.42E+00	2.82E+01	7.98E+00
Ir-192m	2.15E-05	7.98E-04	2.88E-03	7.37E+00	7.35E+00
Ir-194	1.92E-06	5.52E-04	3.17E+02	2.51E+04	7.90E+01
Ir-194m	3.33E-05	1.21E-02	1.48E+00	8.65E+00	4.52E+00
Ir-195	2.48E-07	2.53E-04	2.43E+03	1.35E+06	5.54E+02
Ir-195m	5.92E-07	2.08E-03	1.60E+03	2.79E+05	1.75E+02
K-38	-	1.82E-02	4.77E+04	-	-
K-40	7.77E-06	9.24E-04	5.41E-10	2.01E+01	2.01E+01
K-42	4.44E-07	1.73E-03	4.91E+02	1.10E+05	2.25E+02

Output generated 06JUL2010:04:50:47

Default

Resident Building Dose Compliance Concentrations for Ambient Air

Radionuclide	Inhalation DCF (mrem/pCi)	External Exposure DCF (Submersion) (mrem/yr per pCi/m^3)	Lambda	Resident Ambient Air BDCC (pCi/m^3)	Resident Ambient Air BDCC (no decay) (pCi/m^3)
K-43	5.18E-07	5.08E-03	2.69E+02	3.30E+04	1.23E+02
K-44	7.40E-08	1.33E-02	1.65E+04	1.24E+06	7.56E+01
K-45	5.55E-08	1.07E-02	1.82E+04	1.71E+06	9.39E+01
Kr-74	-	6.07E-03	3.17E+04	-	-
Kr-76	-	2.17E-03	4.10E+02	-	-
Kr-77	-	5.26E-03	4.88E+03	-	-
Kr-79	-	1.31E-03	1.73E+02	-	-
Kr-81	-	2.85E-05	3.30E-06	-	-
Kr-81m	-	6.49E-04	1.68E+06	-	-
Kr-83m	-	1.40E-07	3.32E+03	-	-
Kr-85	-	2.80E-05	6.46E-02	-	-
Kr-85m	-	8.02E-04	1.36E+03	-	-
Kr-87	-	4.63E-03	4.77E+03	-	-
Kr-88	-	1.13E-02	2.14E+03	-	-
La-131	8.51E-08	3.40E-03	6.17E+03	1.63E+06	2.64E+02
La-132	5.92E-07	1.10E-02	1.26E+03	8.87E+04	7.01E+01
La-134	-	3.68E-03	5.46E+04	-	-
La-135	5.18E-08	9.04E-05	3.11E+02	7.54E+05	2.42E+03
La-137	1.33E-05	3.50E-05	1.16E-05	1.19E+01	1.19E+01
La-138	2.37E-04	6.82E-03	5.13E-12	6.67E-01	6.67E-01
La-140	4.07E-06	1.30E-02	1.51E+02	3.96E+03	2.63E+01
La-141	5.55E-07	3.36E-04	1.54E+03	4.05E+05	2.62E+02
La-142	3.29E-07	1.60E-02	3.94E+03	2.26E+05	5.75E+01
La-143	7.77E-08	6.75E-04	2.56E+04	2.25E+07	8.80E+02
Lu-169	1.30E-06	5.54E-03	1.78E+02	1.32E+04	7.42E+01
Lu-170	2.33E-06	1.41E-02	1.26E+02	4.48E+03	3.54E+01
Lu-171	2.96E-06	3.50E-03	3.08E+01	1.40E+03	4.54E+01
Lu-172	5.18E-06	1.01E-02	3.78E+01	8.92E+02	2.36E+01
Lu-173	8.14E-06	5.16E-04	5.06E-01	2.46E+01	1.93E+01
Lu-174	1.55E-05	5.76E-04	2.09E-01	1.13E+01	1.02E+01

Output generated 06JUL2010:04:50:47

Default

Resident Building Dose Compliance Concentrations for Ambient Air

Radionuclide	Inhalation DCF (mrem/pCi)	External Exposure DCF (Submersion) (mrem/yr per pCi/m^3)	Lambda	Resident Ambient Air BDCC (pCi/m^3)	Resident Ambient Air BDCC (no decay) (pCi/m^3)
Lu-174m	1.37E-05	2.15E-04	1.78E+00	2.48E+01	1.16E+01
Lu-176	2.59E-04	2.46E-03	1.93E-11	6.12E-01	6.12E-01
Lu-176m	4.07E-07	8.93E-05	1.65E+03	6.23E+05	3.77E+02
Lu-177	4.07E-06	1.75E-04	3.77E+01	1.46E+03	3.87E+01
Lu-177m	4.81E-05	4.95E-03	1.57E+00	6.45E+00	3.25E+00
Lu-178	8.88E-08	8.31E-04	1.28E+04	9.46E+06	7.37E+02
Lu-178m	1.18E-07	5.60E-03	1.60E+04	2.62E+06	1.63E+02
Lu-179	4.07E-07	1.94E-04	1.32E+03	4.81E+05	3.64E+02
Md-257	9.25E-05	5.27E-04	1.17E+03	2.00E+03	1.71E+00
Md-258	2.18E-02	4.54E-06	4.60E+00	3.38E-02	7.27E-03
Mg-28	4.44E-06	7.45E-03	2.90E+02	8.27E+03	2.85E+01
Mn-51	1.52E-07	5.26E-03	7.88E+03	1.31E+06	1.67E+02
Mn-52	5.18E-06	1.89E-02	4.52E+01	8.91E+02	1.97E+01
Mn-52m	1.07E-07	1.32E-02	1.73E+04	1.30E+06	7.51E+01
Mn-53	2.00E-07	0.00E+00	1.87E-07	7.94E+02	7.94E+02
Mn-54	5.55E-06	4.47E-03	8.09E-01	3.72E+01	2.55E+01
Mn-56	4.44E-07	9.52E-03	2.35E+03	1.97E+05	8.38E+01
Mo-101	9.25E-08	7.56E-03	2.49E+04	3.18E+06	1.28E+02
Mo-90	1.26E-06	4.25E-03	1.07E+03	8.92E+04	8.33E+01
Mo-93	2.18E-06	2.02E-06	1.98E-04	7.27E+01	7.27E+01
Mo-93m	5.92E-07	1.24E-02	8.86E+02	5.68E+04	6.41E+01
Mo-99	3.29E-06	8.16E-04	9.20E+01	4.27E+03	4.65E+01
N-13	-	5.33E-03	3.66E+04	-	-
Na-22	4.81E-06	1.19E-02	2.66E-01	2.73E+01	2.40E+01
Na-24	9.99E-07	2.43E-02	4.05E+02	1.37E+04	3.38E+01
Nb-88	9.99E-08	2.21E-02	2.55E+04	1.17E+06	4.59E+01
Nb-89	4.07E-07	7.73E-03	2.99E+03	2.99E+05	1.00E+02
Nb-89m	2.52E-07	1.01E-02	5.52E+03	4.90E+05	8.88E+01
Nb-90	2.33E-06	2.39E-02	4.16E+02	1.11E+04	2.66E+01
Nb-93m	1.89E-06	3.56E-07	5.10E-02	8.63E+01	8.41E+01

Output generated 06JUL2010:04:50:47

Default

Resident Building Dose Compliance Concentrations for Ambient Air

Radionuclide	Inhalation DCF (mrem/pCi)	External Exposure DCF (Submersion) (mrem/yr per pCi/m^3)	Lambda	Resident Ambient Air BDCC (pCi/m^3)	Resident Ambient Air BDCC (no decay) (pCi/m^3)
Nb-94	4.07E-05	8.40E-03	3.41E-05	3.78E+00	3.78E+00
Nb-95	5.55E-06	4.07E-03	7.20E+00	1.85E+02	2.57E+01
Nb-95m	2.92E-06	3.20E-04	7.01E+01	3.74E+03	5.34E+01
Nb-96	2.33E-06	1.33E-02	2.60E+02	9.47E+03	3.64E+01
Nb-97	1.59E-07	3.49E-03	5.05E+03	1.16E+06	2.30E+02
Nb-97m	-	3.86E-03	3.64E+05	-	-
Nb-98	2.07E-07	1.33E-02	7.07E+03	5.03E+05	7.11E+01
Nd-136	1.89E-07	1.34E-03	7.19E+03	2.90E+06	4.04E+02
Nd-138	8.51E-07	1.25E-04	1.20E+03	2.20E+05	1.82E+02
Nd-139	3.66E-08	2.07E-03	1.23E+04	5.55E+06	4.52E+02
Nd-139m	5.55E-07	8.31E-03	1.10E+03	9.63E+04	8.72E+01
Nd-141	1.78E-08	3.02E-04	2.44E+03	6.07E+06	2.49E+03
Nd-141m	-	4.03E-03	3.50E+05	-	-
Nd-147	7.77E-06	6.68E-04	2.30E+01	4.65E+02	2.02E+01
Nd-149	3.11E-07	1.96E-03	3.51E+03	9.14E+05	2.61E+02
Nd-151	6.29E-08	4.91E-03	2.93E+04	5.73E+06	1.96E+02
Ne-19	-	5.39E-03	1.27E+06	-	-
Np-232	1.85E-07	6.28E-03	2.48E+04	3.45E+06	1.39E+02
Np-233	5.92E-09	3.96E-04	1.01E+04	2.41E+07	2.40E+03
Np-234	1.96E-06	7.97E-03	5.75E+01	2.87E+03	5.00E+01
Np-235	1.55E-06	4.89E-06	6.39E-01	1.38E+02	1.02E+02
Np-236	1.18E-02	5.53E-04	6.03E-06	1.34E-02	1.34E-02
Np-236m	-	2.24E-04	2.70E+02	-	-
Np-237	8.51E-02	1.04E-04	3.24E-07	1.87E-03	1.87E-03
Np-237+D	-	-	3.24E-07	-	-
Np-237+E	8.51E-02	1.10E-03	3.24E-07	1.87E-03	1.87E-03
Np-238	7.77E-06	2.99E-03	1.19E+02	2.31E+03	1.93E+01
Np-239	3.44E-06	8.11E-04	1.07E+02	4.78E+03	4.45E+01
Np-240	3.15E-07	6.86E-03	5.60E+03	6.55E+05	1.17E+02
Np-240m	-	1.81E-03	4.92E+04	-	-

Output generated 06JUL2010:04:50:47

Default

Resident Building Dose Compliance Concentrations for Ambient Air

Radionuclide	Inhalation DCF (mrem/pCi)	External Exposure DCF (Submersion) (mrem/yr per pCi/m^3)	Lambda	Resident Ambient Air BDCC (pCi/m^3)	Resident Ambient Air BDCC (no decay) (pCi/m^3)
O-15	-	5.36E-03	1.79E+05	-	-
Os-180	5.18E-08	2.29E-04	1.66E+04	3.03E+07	1.83E+03
Os-181	2.29E-07	6.44E-03	3.47E+03	4.55E+05	1.31E+02
Os-182	1.33E-06	2.14E-03	2.76E+02	2.64E+04	9.58E+01
Os-185	4.81E-06	3.71E-03	2.69E+00	8.52E+01	2.95E+01
Os-189m	1.85E-08	1.45E-08	1.01E+03	8.68E+06	8.58E+03
Os-190m	-	8.20E-03	3.68E+04	-	-
Os-191	6.29E-06	3.24E-04	1.64E+01	4.11E+02	2.50E+01
Os-191m	5.18E-07	2.70E-05	4.66E+02	1.42E+05	3.04E+02
Os-193	1.78E-06	3.84E-04	2.02E+02	1.75E+04	8.65E+01
Os-194	7.77E-05	2.53E-06	1.16E-01	2.16E+00	2.04E+00
Os-194+D	7.77E-05	5.54E-04	1.16E-01	2.16E+00	2.04E+00
Os-194+E	7.77E-05	5.54E-04	1.16E-01	2.16E+00	2.04E+00
P-30	-	5.46E-03	1.46E+05	-	-
P-32	1.26E-05	6.26E-05	1.77E+01	2.23E+02	1.26E+01
P-33	5.55E-06	1.69E-06	9.96E+00	2.85E+02	2.86E+01
Pa-227	2.74E-04	8.61E-05	9.51E+03	5.51E+03	5.80E-01
Pa-228	2.37E-04	6.02E-03	2.76E+02	1.84E+02	6.68E-01
Pa-230	2.26E-03	3.40E-03	1.45E+01	1.02E+00	7.03E-02
Pa-231	5.18E-01	1.83E-04	2.12E-05	3.06E-04	3.06E-04
Pa-232	3.70E-05	4.97E-03	1.93E+02	8.12E+02	4.20E+00
Pa-233	1.22E-05	9.98E-04	9.37E+00	1.20E+02	1.28E+01
Pa-234	1.41E-06	1.02E-02	9.06E+02	4.87E+04	5.37E+01
Pa-234m	-	1.41E-04	3.11E+05	-	-
Pb-195m	9.25E-08	8.31E-03	2.31E+04	2.70E+06	1.17E+02
Pb-198	2.44E-07	2.17E-03	2.53E+03	6.99E+05	2.76E+02
Pb-199	1.33E-07	7.97E-03	4.05E+03	4.77E+05	1.18E+02
Pb-200	1.22E-06	9.53E-04	2.82E+02	3.28E+04	1.16E+02
Pb-201	4.07E-07	3.91E-03	6.46E+02	1.02E+05	1.58E+02
Pb-202	2.33E-05	5.79E-08	2.31E-06	6.81E+00	6.81E+00

Output generated 06JUL2010:04:50:47

Default

Resident Building Dose Compliance Concentrations for Ambient Air

Radionuclide	Inhalation DCF (mrem/pCi)	External Exposure DCF (Submersion) (mrem/yr per pCi/m^3)	Lambda	Resident Ambient Air BDCC (pCi/m^3)	Resident Ambient Air BDCC (no decay) (pCi/m^3)
Pb-202+D	2.33E-05	-	2.31E-06	-	-
Pb-202+E	2.33E-05	2.33E-03	2.31E-06	6.71E+00	6.71E+00
Pb-202m	3.52E-07	1.08E-02	1.68E+03	1.33E+05	7.93E+01
Pb-203	7.40E-07	1.52E-03	1.17E+02	1.91E+04	1.63E+02
Pb-205	9.25E-07	6.36E-08	4.85E-08	1.72E+02	1.72E+02
Pb-209	2.07E-07	1.17E-05	1.87E+03	1.42E+06	7.60E+02
Pb-210	4.07E-03	5.23E-06	3.11E-02	3.96E-02	3.90E-02
Pb-211	4.07E-05	3.02E-04	1.01E+04	3.93E+04	3.90E+00
Pb-212	6.29E-04	7.28E-04	5.71E+02	1.44E+02	2.52E-01
Pb-214	5.18E-05	1.27E-03	1.36E+04	4.15E+04	3.05E+00
Pd-100	2.96E-06	4.64E-04	6.97E+01	3.65E+03	5.24E+01
Pd-101	2.18E-07	1.66E-03	7.34E+02	2.48E+05	3.37E+02
Pd-103	1.41E-06	6.21E-06	1.49E+01	1.68E+03	1.13E+02
Pd-107	3.15E-07	0.00E+00	1.07E-07	5.05E+02	5.05E+02
Pd-109	1.26E-06	4.90E-05	4.52E+02	5.67E+04	1.25E+02
Pm-141	5.18E-08	3.96E-03	1.74E+04	4.23E+06	2.43E+02
Pm-142	-	4.68E-03	5.40E+05	-	-
Pm-143	5.55E-06	1.58E-03	9.55E-01	4.26E+01	2.74E+01
Pm-144	3.03E-05	8.11E-03	6.97E-01	6.98E+00	5.03E+00
Pm-145	1.33E-05	6.41E-05	3.92E-02	1.21E+01	1.19E+01
Pm-146	7.77E-05	3.90E-03	1.25E-01	2.16E+00	2.03E+00
Pm-147	1.85E-05	1.01E-06	2.64E-01	9.76E+00	8.58E+00
Pm-148	7.40E-06	3.22E-03	4.71E+01	9.48E+02	2.01E+01
Pm-148m	1.89E-05	1.05E-02	6.12E+00	4.76E+01	7.75E+00
Pm-149	2.48E-06	8.26E-05	1.14E+02	7.29E+03	6.37E+01
Pm-150	4.44E-07	7.90E-03	2.27E+03	2.18E+05	9.64E+01
Pm-151	1.59E-06	1.63E-03	2.14E+02	1.84E+04	8.63E+01
Po-203	1.30E-07	8.86E-03	9.92E+03	1.07E+06	1.07E+02
Po-205	2.41E-07	8.51E-03	3.37E+03	3.49E+05	1.03E+02
Po-207	2.89E-07	7.10E-03	1.04E+03	1.21E+05	1.16E+02

Output generated 06JUL2010:04:50:47

Default

Resident Building Dose Compliance Concentrations for Ambient Air

Radionuclide	Inhalation DCF (mrem/pCi)	External Exposure DCF (Submersion) (mrem/yr per pCi/m^3)	Lambda	Resident Ambient Air BDCC (pCi/m^3)	Resident Ambient Air BDCC (no decay) (pCi/m^3)
Po-210	1.22E-02	4.54E-08	1.83E+00	2.83E-02	1.30E-02
Po-211	-	4.15E-05	4.24E+07	-	-
Po-212	-	0.00E+00	7.17E+13	-	-
Po-213	-	0.00E+00	5.20E+12	-	-
Po-214	-	4.45E-07	1.33E+11	-	-
Po-215	-	9.09E-07	1.23E+10	-	-
Po-216	-	9.04E-08	1.46E+08	-	-
Po-218	-	4.91E-08	1.19E+05	-	-
Pr-136	4.81E-08	1.13E-02	2.78E+04	2.49E+06	8.94E+01
Pr-137	7.40E-08	2.57E-03	4.76E+03	1.62E+06	3.42E+02
Pr-138	-	4.34E-03	2.51E+05	-	-
Pr-138m	2.66E-07	1.32E-02	2.89E+03	2.02E+05	6.98E+01
Pr-139	6.66E-08	5.54E-04	1.35E+03	1.42E+06	1.05E+03
Pr-142	1.92E-06	4.08E-04	3.17E+02	2.54E+04	7.99E+01
Pr-142m	2.44E-08	0.00E+00	2.49E+04	1.62E+08	6.50E+03
Pr-143	8.14E-06	2.26E-05	1.87E+01	3.64E+02	1.95E+01
Pr-144	6.66E-08	3.09E-04	2.11E+04	2.94E+07	1.40E+03
Pr-144m	-	2.57E-05	5.06E+04	-	-
Pr-145	5.92E-07	1.31E-04	1.02E+03	2.63E+05	2.59E+02
Pr-147	6.66E-08	4.55E-03	2.68E+04	5.60E+06	2.09E+02
Pt-186	1.22E-07	3.82E-03	3.04E+03	6.85E+05	2.26E+02
Pt-188	1.55E-06	9.22E-04	2.48E+01	2.32E+03	9.37E+01
Pt-189	1.41E-07	1.56E-03	5.58E+02	2.34E+05	4.19E+02
Pt-191	4.07E-07	1.41E-03	9.03E+01	2.31E+04	2.55E+02
Pt-193	7.77E-08	4.75E-08	1.39E-02	2.06E+03	2.04E+03
Pt-193m	4.44E-07	4.39E-05	5.84E+01	2.06E+04	3.52E+02
Pt-195m	6.66E-07	2.85E-04	6.29E+01	1.41E+04	2.24E+02
Pt-197	3.15E-07	1.14E-04	3.32E+02	1.59E+05	4.78E+02
Pt-197m	8.88E-08	3.79E-04	3.86E+03	4.18E+06	1.08E+03
Pt-199	4.44E-08	1.09E-03	1.18E+04	8.94E+06	7.56E+02

Output generated 06JUL2010:04:50:47

Default

Resident Building Dose Compliance Concentrations for Ambient Air

Radionuclide	Inhalation DCF (mrem/pCi)	External Exposure DCF (Submersion) (mrem/yr per pCi/m^3)	Lambda	Resident Ambient Air BDCC (pCi/m^3)	Resident Ambient Air BDCC (no decay) (pCi/m^3)
Pt-200	8.14E-07	2.72E-04	4.86E+02	9.01E+04	1.86E+02
Pu-234	7.77E-05	2.91E-04	6.90E+02	1.41E+03	2.04E+00
Pu-235	5.18E-09	4.03E-04	1.44E+04	3.44E+07	2.39E+03
Pu-236	7.40E-02	5.46E-07	2.43E-01	2.42E-03	2.15E-03
Pu-237	1.30E-06	2.05E-04	5.58E+00	6.71E+02	1.20E+02
Pu-238	1.70E-01	4.08E-07	7.90E-03	9.36E-04	9.33E-04
Pu-239	1.85E-01	4.06E-07	2.88E-05	8.58E-04	8.58E-04
Pu-240	1.85E-01	3.99E-07	1.06E-04	8.58E-04	8.58E-04
Pu-241	3.33E-03	7.39E-09	4.81E-02	4.88E-02	4.77E-02
Pu-242	1.78E-01	3.38E-07	1.84E-06	8.94E-04	8.94E-04
Pu-243	3.07E-07	1.12E-04	1.22E+03	6.00E+05	4.90E+02
Pu-244	1.74E-01	1.26E-04	8.66E-09	9.13E-04	9.13E-04
Pu-244+D	1.74E-01	1.94E-03	8.66E-09	9.13E-04	9.13E-04
Pu-244+E	1.74E-01	1.94E-03	8.66E-09	9.13E-04	9.13E-04
Pu-245	1.48E-06	2.17E-03	5.78E+02	5.07E+04	8.77E+01
Pu-246	2.74E-05	6.24E-04	2.33E+01	1.35E+02	5.78E+00
Ra-222	-	4.70E-05	5.75E+05	-	-
Ra-223	2.74E-02	6.38E-04	2.21E+01	1.28E-01	5.80E-03
Ra-223+D	2.74E-02	1.52E-03	2.21E+01	1.28E-01	5.80E-03
Ra-223+E	2.74E-02	1.52E-03	2.21E+01	1.28E-01	5.80E-03
Ra-224	1.11E-02	5.01E-05	6.91E+01	9.88E-01	1.43E-02
Ra-224+D	1.11E-02	8.90E-03	6.91E+01	9.88E-01	1.43E-02
Ra-224+E	1.11E-02	8.90E-03	6.91E+01	9.88E-01	1.43E-02
Ra-225	2.33E-02	2.80E-05	1.71E+01	1.16E-01	6.81E-03
Ra-225+D	5.18E-02	1.23E-03	1.71E+01	5.24E-02	3.06E-03
Ra-225+E	5.18E-02	1.23E-03	1.71E+01	5.24E-02	3.06E-03
Ra-226	1.30E-02	3.31E-05	4.33E-04	1.23E-02	1.23E-02
Ra-226+D	1.30E-02	-	4.33E-04	-	-
Ra-226+E	1.30E-02	9.77E-03	4.33E-04	1.23E-02	1.23E-02
Ra-227	1.04E-06	8.18E-04	8.63E+03	1.18E+06	1.37E+02

Output generated 06JUL2010:04:50:47

Default

Resident Building Dose Compliance Concentrations for Ambient Air

Radionuclide	Inhalation DCF (mrem/pCi)	External Exposure DCF (Submersion) (mrem/yr per pCi/m^3)	Lambda	Resident Ambient Air BDCC (pCi/m^3)	Resident Ambient Air BDCC (no decay) (pCi/m^3)
Ra-227+D	-	-	8.63E+03	-	-
Ra-228	9.62E-03	0.00E+00	1.21E-01	1.75E-02	1.65E-02
Ra-228+D	1.70E-01	5.24E-03	1.21E-01	9.90E-04	9.33E-04
Ra-228+E	1.70E-01	1.41E-02	1.21E-01	9.90E-04	9.33E-04
Rb-79	5.92E-08	7.10E-03	1.59E+04	2.22E+06	1.39E+02
Rb-80	-	6.73E-03	6.43E+05	-	-
Rb-81	1.26E-07	3.19E-03	1.33E+03	3.45E+05	2.60E+02
Rb-81m	2.59E-08	1.90E-05	1.14E+04	6.27E+07	5.51E+03
Rb-82	-	5.85E-03	2.80E+05	-	-
Rb-82m	4.07E-07	1.56E-02	9.79E+02	5.58E+04	5.70E+01
Rb-83	2.55E-06	2.58E-03	2.93E+00	1.67E+02	5.39E+01
Rb-84	3.70E-06	4.88E-03	7.72E+00	2.76E+02	3.57E+01
Rb-86	3.44E-06	5.76E-04	1.36E+01	6.10E+02	4.50E+01
Rb-87	1.85E-06	3.85E-06	1.47E-11	8.58E+01	8.58E+01
Rb-88	5.92E-08	3.89E-03	2.05E+04	4.99E+06	2.44E+02
Rb-89	5.18E-08	1.18E-02	2.40E+04	2.06E+06	8.60E+01
Re-177	5.18E-08	3.22E-03	2.60E+04	7.62E+06	2.93E+02
Re-178	5.18E-08	6.69E-03	2.76E+04	4.10E+06	1.48E+02
Re-180	-	6.22E-03	1.50E+05	-	-
Re-181	9.25E-07	3.93E-03	3.04E+02	3.16E+04	1.04E+02
Re-182	4.44E-06	9.91E-03	9.49E+01	2.53E+03	2.67E+01
Re-182m	7.40E-07	6.29E-03	4.78E+02	4.47E+04	9.35E+01
Re-184	7.03E-06	4.66E-03	6.66E+00	1.37E+02	2.05E+01
Re-184m	2.41E-05	1.95E-03	1.53E+00	1.27E+01	6.52E+00
Re-186	4.07E-06	1.16E-04	6.70E+01	2.60E+03	3.88E+01
Re-186m	4.44E-05	4.83E-05	3.47E-06	3.57E+00	3.57E+00
Re-186m+D	4.44E-05	-	3.47E-06	-	-
Re-186m+E	4.44E-05	1.65E-04	3.47E-06	3.57E+00	3.57E+00
Re-187	2.33E-08	0.00E+00	1.39E-11	6.81E+03	6.81E+03
Re-188	2.00E-06	3.65E-04	3.58E+02	2.76E+04	7.73E+01

Output generated 06JUL2010:04:50:47

Default

Resident Building Dose Compliance Concentrations for Ambient Air

Radionuclide	Inhalation DCF (mrem/pCi)	External Exposure DCF (Submersion) (mrem/yr per pCi/m^3)	Lambda	Resident Ambient Air BDCC (pCi/m^3)	Resident Ambient Air BDCC (no decay) (pCi/m^3)
Re-188m	4.81E-08	2.99E-04	1.96E+04	3.32E+07	1.70E+03
Re-189	1.59E-06	3.59E-04	2.50E+02	2.41E+04	9.65E+01
Rh-100	1.26E-06	1.55E-02	2.92E+02	1.28E+04	4.38E+01
Rh-101	8.51E-06	1.27E-03	2.17E-01	2.03E+01	1.82E+01
Rh-101m	7.03E-07	1.51E-03	5.83E+01	9.92E+03	1.70E+02
Rh-102	2.55E-05	1.13E-02	2.39E-01	6.55E+00	5.83E+00
Rh-102m	1.48E-05	2.51E-03	1.22E+00	1.81E+01	1.05E+01
Rh-103m	9.25E-09	7.03E-07	6.49E+03	1.10E+08	1.70E+04
Rh-105	1.18E-06	4.05E-04	1.72E+02	2.19E+04	1.27E+02
Rh-106	-	1.24E-03	7.31E+05	-	-
Rh-106m	4.07E-07	1.58E-02	2.76E+03	1.56E+05	5.66E+01
Rh-107	5.92E-08	1.65E-03	1.68E+04	8.60E+06	5.13E+02
Rh-99	2.85E-06	3.07E-03	1.58E+01	7.57E+02	4.79E+01
Rh-99m	1.44E-07	3.57E-03	1.29E+03	2.98E+05	2.31E+02
Rn-218	-	3.97E-06	6.24E+08	-	-
Rn-219	-	2.87E-04	5.52E+06	-	-
Rn-219+D	-	8.81E-04	5.52E+06	-	-
Rn-219+E	-	8.81E-04	5.52E+06	-	-
Rn-220	-	2.01E-06	3.93E+05	-	-
Rn-222	-	2.07E-06	6.62E+01	-	-
Rn-222+D	-	9.73E-03	6.62E+01	-	-
Rn-222+E	-	9.77E-03	6.62E+01	-	-
Ru-106+D	1.04E-04	1.24E-03	6.87E-01	2.11E+00	1.53E+00
Sb-115	4.81E-08	4.69E-03	1.15E+04	2.39E+06	2.08E+02
Sb-116	4.81E-08	1.19E-02	2.31E+04	1.97E+06	8.53E+01
Sb-116m	1.74E-07	1.69E-02	6.04E+03	3.49E+05	5.77E+01
Sb-117	5.92E-08	8.34E-04	2.17E+03	1.85E+06	8.52E+02
Sb-118m	4.44E-07	1.39E-02	1.21E+03	7.53E+04	6.21E+01
Sb-119	1.30E-07	1.75E-05	1.59E+02	1.91E+05	1.20E+03
Sb-120	2.59E-08	2.33E-03	2.29E+04	9.55E+06	4.16E+02

Output generated 06JUL2010:04:50:47

Default

Resident Building Dose Compliance Concentrations for Ambient Air

Radionuclide	Inhalation DCF (mrem/pCi)	External Exposure DCF (Submersion) (mrem/yr per pCi/m^3)	Lambda	Resident Ambient Air BDCC (pCi/m^3)	Resident Ambient Air BDCC (no decay) (pCi/m^3)
Sb-120m	3.70E-06	1.33E-02	4.39E+01	1.22E+03	2.77E+01
Sb-122	3.70E-06	2.36E-03	9.37E+01	3.66E+03	3.91E+01
Sb-124	2.37E-05	1.01E-02	4.20E+00	2.69E+01	6.30E+00
Sb-124m	-	1.84E-03	2.35E+05	-	-
Sb-124n	2.00E-08	5.45E-08	1.80E+04	1.43E+08	7.94E+03
Sb-125	1.78E-05	2.18E-03	2.50E-01	9.92E+00	8.77E+00
Sb-126	1.04E-05	1.49E-02	2.04E+01	2.56E+02	1.26E+01
Sb-126m	7.03E-08	8.18E-03	1.92E+04	2.31E+06	1.21E+02
Sb-127	6.29E-06	3.64E-03	6.57E+01	1.52E+03	2.32E+01
Sb-128	1.48E-06	1.65E-02	6.74E+02	2.68E+04	3.98E+01
Sb-128m	5.18E-08	1.06E-02	3.50E+04	3.34E+06	9.54E+01
Sb-129	8.51E-07	7.83E-03	1.41E+03	1.09E+05	7.77E+01
Sb-130	1.89E-07	1.75E-02	9.11E+03	5.07E+05	5.56E+01
Sb-131	1.63E-07	1.03E-02	1.58E+04	1.45E+06	9.16E+01
Sc-43	4.07E-07	5.69E-03	1.56E+03	1.94E+05	1.25E+02
Sc-44	6.66E-07	1.15E-02	1.55E+03	1.01E+05	6.56E+01
Sc-44m	5.18E-06	1.45E-03	1.04E+02	3.04E+03	2.94E+01
Sc-46	2.52E-05	1.09E-02	3.02E+00	1.88E+01	5.92E+00
Sc-47	2.70E-06	5.45E-04	7.55E+01	4.30E+03	5.70E+01
Sc-48	4.07E-06	1.83E-02	1.39E+02	3.21E+03	2.31E+01
Sc-49	1.48E-07	8.36E-05	6.35E+03	6.27E+06	9.88E+02
Se-70	1.55E-07	5.13E-03	8.88E+03	1.51E+06	1.69E+02
Se-73	2.96E-07	5.58E-03	8.49E+02	1.18E+05	1.39E+02
Se-73m	3.40E-08	1.27E-03	9.34E+03	6.51E+06	6.97E+02
Se-75	3.70E-06	1.96E-03	2.11E+00	9.54E+01	3.97E+01
Se-77m	-	4.24E-04	1.25E+06	-	-
Se-79	4.07E-06	4.60E-07	1.07E-05	3.90E+01	3.90E+01
Se-81	2.96E-08	1.01E-04	1.97E+04	6.94E+07	3.52E+03
Se-81m	5.92E-08	6.40E-05	6.36E+03	1.47E+07	2.30E+03
Se-83	6.66E-08	1.33E-02	1.62E+04	1.23E+06	7.59E+01

Output generated 06JUL2010:04:50:47

Default

Resident Building Dose Compliance Concentrations for Ambient Air

Radionuclide	Inhalation DCF (mrem/pCi)	External Exposure DCF (Submersion) (mrem/yr per pCi/m^3)	Lambda	Resident Ambient Air BDCC (pCi/m^3)	Resident Ambient Air BDCC (no decay) (pCi/m^3)
Si-31	2.74E-07	5.64E-05	2.32E+03	1.30E+06	5.62E+02
Si-32	6.29E-05	1.01E-06	1.54E-03	2.53E+00	2.52E+00
Si-32+D	7.40E-05	-	1.54E-03	-	-
Si-32+E	7.40E-05	6.36E-05	1.54E-03	2.15E+00	2.14E+00
Sm-141	5.55E-08	7.52E-03	3.57E+04	4.73E+06	1.32E+02
Sm-141m	1.18E-07	1.06E-02	1.61E+04	1.48E+06	9.18E+01
Sm-142	2.63E-07	4.00E-04	5.02E+03	2.46E+06	4.90E+02
Sm-145	5.92E-06	1.47E-04	7.44E-01	3.79E+01	2.67E+01
Sm-146	4.07E-02	0.00E+00	6.73E-09	3.90E-03	3.90E-03
Sm-147	3.55E-02	0.00E+00	6.54E-12	4.47E-03	4.47E-03
Sm-151	1.48E-05	2.87E-09	7.70E-03	1.08E+01	1.07E+01
Sm-153	2.33E-06	2.38E-04	1.30E+02	8.72E+03	6.71E+01
Sm-155	6.29E-08	5.17E-04	1.65E+04	1.85E+07	1.12E+03
Sm-156	8.14E-07	5.75E-04	6.46E+02	1.14E+05	1.76E+02
Sn-110	5.92E-07	1.46E-03	1.52E+03	2.96E+05	1.95E+02
Sn-111	4.81E-08	2.68E-03	1.03E+04	3.59E+06	3.48E+02
Sn-113	9.99E-06	3.68E-05	2.20E+00	3.93E+01	1.59E+01
Sn-117m	8.88E-06	7.13E-04	1.86E+01	3.28E+02	1.77E+01
Sn-119m	8.14E-06	8.22E-06	8.63E-01	2.91E+01	1.95E+01
Sn-121	8.51E-07	4.55E-06	2.24E+02	4.18E+04	1.86E+02
Sn-121m	1.67E-05	6.12E-06	1.26E-02	9.59E+00	9.53E+00
Sn-121m+D	1.67E-05	9.65E-06	1.26E-02	9.59E+00	9.53E+00
Sn-121m+E	1.67E-05	9.65E-06	1.26E-02	9.59E+00	9.53E+00
Sn-123	3.00E-05	8.15E-05	1.96E+00	1.21E+01	5.29E+00
Sn-123m	9.99E-08	7.17E-04	9.09E+03	6.90E+06	7.60E+02
Sn-125	1.15E-05	1.80E-03	2.62E+01	3.55E+02	1.35E+01
Sn-126	1.04E-04	2.15E-04	6.93E-06	1.53E+00	1.53E+00
Sn-126+D	1.04E-04	8.39E-03	6.93E-06	1.51E+00	1.51E+00
Sn-126+E	1.04E-04	1.05E-02	6.93E-06	1.51E+00	1.51E+00
Sn-127	4.81E-07	1.05E-02	2.89E+03	2.20E+05	7.61E+01

Output generated 06JUL2010:04:50:47

Default

Resident Building Dose Compliance Concentrations for Ambient Air

Radionuclide	Inhalation DCF (mrem/pCi)	External Exposure DCF (Submersion) (mrem/yr per pCi/m^3)	Lambda	Resident Ambient Air BDCC (pCi/m^3)	Resident Ambient Air BDCC (no decay) (pCi/m^3)
Sn-128	3.40E-07	3.23E-03	6.16E+03	1.18E+06	1.91E+02
Sr-80	4.81E-07	5.84E-07	3.64E+03	1.20E+06	3.30E+02
Sr-81	1.30E-07	7.28E-03	1.43E+04	1.83E+06	1.28E+02
Sr-82	3.29E-05	5.74E-07	1.01E+01	4.88E+01	4.82E+00
Sr-82+D	3.29E-05	5.85E-03	1.01E+01	4.75E+01	4.69E+00
Sr-82+E	3.29E-05	5.85E-03	1.01E+01	4.75E+01	4.69E+00
Sr-83	1.15E-06	4.20E-03	1.87E+02	1.66E+04	8.89E+01
Sr-85	2.37E-06	2.61E-03	3.90E+00	2.28E+02	5.74E+01
Sr-85m	1.52E-08	1.11E-03	5.24E+03	4.53E+06	8.65E+02
Sr-87m	7.40E-08	1.65E-03	2.16E+03	1.06E+06	4.89E+02
Sr-89	2.26E-05	5.10E-05	5.01E+00	3.55E+01	7.03E+00
Sr-90	1.33E-04	1.15E-05	2.38E-02	1.21E+00	1.19E+00
Sr-90+D	1.33E-04	1.04E-04	2.38E-02	1.21E+00	1.19E+00
Sr-90+E	1.33E-04	1.04E-04	2.38E-02	1.21E+00	1.19E+00
Sr-91	1.37E-06	3.82E-03	6.39E+02	5.20E+04	8.14E+01
Sr-92	7.77E-07	7.48E-03	2.24E+03	1.86E+05	8.29E+01
Ta-172	1.22E-07	8.29E-03	9.90E+03	1.14E+06	1.15E+02
Ta-173	4.07E-07	2.98E-03	1.66E+03	3.07E+05	1.85E+02
Ta-174	1.52E-07	3.21E-03	5.06E+03	1.25E+06	2.48E+02
Ta-175	4.44E-07	4.95E-03	5.78E+02	7.67E+04	1.33E+02
Ta-176	7.03E-07	1.20E-02	7.51E+02	4.71E+04	6.27E+01
Ta-177	3.55E-07	2.51E-04	1.07E+02	4.33E+04	4.03E+02
Ta-178	-	4.81E-04	3.91E+04	-	-
Ta-178m	2.41E-07	5.04E-03	2.76E+03	4.35E+05	1.57E+02
Ta-179	8.14E-07	1.05E-04	3.80E-01	2.30E+02	1.91E+02
Ta-180	2.37E-05	2.74E-03	6.93E-14	6.59E+00	6.59E+00
Ta-180m	1.63E-07	1.67E-04	7.49E+02	6.32E+05	8.43E+02
Ta-182	2.81E-05	6.99E-03	2.20E+00	1.35E+01	5.44E+00
Ta-182m	7.40E-08	1.16E-03	2.30E+04	1.46E+07	6.34E+02
Ta-183	7.03E-06	1.39E-03	4.96E+01	1.09E+03	2.19E+01

Output generated 06JUL2010:04:50:47

Default

Resident Building Dose Compliance Concentrations for Ambient Air

Radionuclide	Inhalation DCF (mrem/pCi)	External Exposure DCF (Submersion) (mrem/yr per pCi/m^3)	Lambda	Resident Ambient Air BDCC (pCi/m^3)	Resident Ambient Air BDCC (no decay) (pCi/m^3)
Ta-184	1.52E-06	8.46E-03	6.98E+02	3.95E+04	5.66E+01
Ta-185	1.67E-07	9.60E-04	7.43E+03	3.77E+06	5.08E+02
Ta-186	6.29E-08	8.19E-03	3.47E+04	4.20E+06	1.21E+02
Tb-147	2.81E-07	8.51E-03	3.68E+03	3.71E+05	1.01E+02
Tb-149	1.81E-05	8.76E-03	1.46E+03	1.19E+04	8.16E+00
Tb-150	4.07E-07	9.04E-03	1.86E+03	1.65E+05	8.90E+01
Tb-151	8.51E-07	4.52E-03	3.45E+02	3.56E+04	1.03E+02
Tb-153	7.03E-07	1.03E-03	1.08E+02	1.99E+04	1.84E+02
Tb-154	1.33E-06	1.33E-02	2.84E+02	1.34E+04	4.73E+01
Tb-155	8.14E-07	5.65E-04	4.75E+01	8.39E+03	1.76E+02
Tb-156	4.44E-06	9.73E-03	4.74E+01	1.27E+03	2.68E+01
Tb-156m	7.77E-07	7.28E-05	2.49E+02	5.01E+04	2.01E+02
Tb-156n	3.55E-07	1.14E-05	1.21E+03	5.40E+05	4.45E+02
Tb-157	4.44E-06	6.23E-06	4.62E-03	3.58E+01	3.57E+01
Tb-158	1.70E-04	4.18E-03	4.62E-03	9.31E-01	9.29E-01
Tb-160	2.59E-05	6.06E-03	3.50E+00	2.13E+01	5.92E+00
Tb-161	4.81E-06	1.04E-04	3.66E+01	1.20E+03	3.29E+01
Tc-101	4.44E-08	1.75E-03	2.57E+04	1.31E+07	5.11E+02
Tc-104	1.04E-07	1.12E-02	2.00E+04	1.75E+06	8.77E+01
Tc-93	1.30E-07	8.12E-03	2.21E+03	2.57E+05	1.16E+02
Tc-93m	6.29E-08	4.12E-03	8.37E+03	1.93E+06	2.30E+02
Tc-94	4.44E-07	1.42E-02	1.24E+03	7.56E+04	6.08E+01
Tc-94m	1.67E-07	1.01E-02	7.00E+03	6.54E+05	9.33E+01
Tc-95	3.70E-07	4.18E-03	3.04E+02	4.79E+04	1.58E+02
Tc-95m	3.26E-06	3.49E-03	4.15E+00	1.77E+02	4.19E+01
Tc-96	2.52E-06	1.33E-02	5.91E+01	2.07E+03	3.50E+01
Tc-96m	2.74E-08	2.44E-04	7.07E+03	1.74E+07	2.46E+03
Tc-97	8.14E-07	2.64E-06	2.67E-07	1.95E+02	1.95E+02
Tc-97m	1.18E-05	4.34E-06	2.91E+00	4.12E+01	1.34E+01
Tc-98	3.07E-05	7.48E-03	1.65E-07	4.98E+00	4.98E+00

Output generated 06JUL2010:04:50:47

Default

Resident Building Dose Compliance Concentrations for Ambient Air

Radionuclide	Inhalation DCF (mrem/pCi)	External Exposure DCF (Submersion) (mrem/yr per pCi/m^3)	Lambda	Resident Ambient Air BDCC (pCi/m^3)	Resident Ambient Air BDCC (no decay) (pCi/m^3)
Tc-99	1.48E-05	3.35E-06	3.25E-06	1.07E+01	1.07E+01
Tc-99m	7.03E-08	6.13E-04	1.01E+03	9.79E+05	9.71E+02
Test Isotope	-	-	-	-	-
Th-226	2.26E-04	3.75E-05	1.18E+04	8.29E+03	7.03E-01
Th-227	3.70E-02	5.17E-04	1.35E+01	5.80E-02	4.29E-03
Th-228	1.48E-01	9.45E-06	3.62E-01	1.28E-03	1.07E-03
Th-229	2.63E-01	3.92E-04	9.44E-05	6.04E-04	6.04E-04
Th-229+D	3.15E-01	-	9.44E-05	-	-
Th-229+E	3.15E-01	1.63E-03	9.44E-05	5.05E-04	5.05E-04
Th-230	5.18E-02	1.73E-06	9.00E-06	3.06E-03	3.06E-03
Th-231	1.22E-06	5.34E-05	2.38E+02	3.07E+04	1.29E+02
Th-232	9.25E-02	8.45E-07	4.93E-11	1.72E-03	1.72E-03
Th-232+D	-	-	-	-	-
Th-234	2.85E-05	3.43E-05	1.05E+01	5.85E+01	5.57E+00
Th-234+D	2.85E-05	2.09E-04	1.05E+01	5.84E+01	5.57E+00
Th-234+E	2.85E-05	2.09E-04	1.05E+01	5.84E+01	5.57E+00
Ti-44	1.55E-04	5.48E-04	1.47E-02	1.03E+00	1.02E+00
Ti-44+D	1.55E-04	1.20E-02	1.47E-02	1.02E+00	1.01E+00
Ti-44+E	1.55E-04	1.20E-02	1.47E-02	1.02E+00	1.01E+00
Ti-45	3.26E-07	4.54E-03	1.97E+03	3.08E+05	1.56E+02
Tl-194	1.63E-08	3.98E-03	1.10E+04	2.82E+06	2.55E+02
Tl-194m	7.03E-08	1.20E-02	1.11E+04	9.28E+05	8.35E+01
Tl-195	5.55E-08	6.93E-03	5.23E+03	7.48E+05	1.43E+02
Tl-197	5.18E-08	2.08E-03	2.14E+03	9.22E+05	4.31E+02
Tl-198	2.22E-07	1.11E-02	1.15E+03	9.55E+04	8.34E+01
Tl-198m	1.37E-07	6.14E-03	3.25E+03	4.81E+05	1.48E+02
Tl-199	7.03E-08	1.19E-03	8.18E+02	5.16E+05	6.31E+02
Tl-200	4.81E-07	6.98E-03	2.33E+02	2.39E+04	1.03E+02
Tl-201	1.63E-07	3.79E-04	8.31E+01	5.98E+04	7.20E+02
Tl-202	7.03E-07	2.33E-03	2.07E+01	3.10E+03	1.50E+02

Output generated 06JUL2010:04:50:47

Default

Resident Building Dose Compliance Concentrations for Ambient Air

Radionuclide	Inhalation DCF (mrem/pCi)	External Exposure DCF (Submersion) (mrem/yr per pCi/m^3)	Lambda	Resident Ambient Air BDCC (pCi/m^3)	Resident Ambient Air BDCC (no decay) (pCi/m^3)
Tl-204	1.44E-06	2.00E-05	1.83E-01	1.20E+02	1.10E+02
Tl-206	-	4.61E-05	8.67E+04	-	-
Tl-207	-	5.29E-05	7.64E+04	-	-
Tl-208	-	1.97E-02	1.19E+05	-	-
Tl-209	-	1.13E-02	1.66E+05	-	-
Tm-162	5.92E-08	9.92E-03	1.68E+04	1.70E+06	1.01E+02
Tm-166	6.29E-07	1.02E-02	7.88E+02	5.72E+04	7.25E+01
Tm-167	4.07E-06	6.29E-04	2.74E+01	1.04E+03	3.81E+01
Tm-170	2.59E-05	4.28E-05	1.97E+00	1.40E+01	6.13E+00
Tm-171	5.18E-06	2.07E-06	3.61E-01	3.65E+01	3.06E+01
Tm-172	4.07E-06	2.68E-03	9.55E+01	3.38E+03	3.54E+01
Tm-173	6.66E-07	2.01E-03	7.37E+02	1.20E+05	1.63E+02
Tm-175	6.66E-08	5.61E-03	2.40E+04	4.13E+06	1.72E+02
U-230	4.81E-02	5.32E-06	1.22E+01	4.01E-02	3.30E-03
U-231	1.74E-06	2.99E-04	6.02E+01	5.36E+03	8.90E+01
U-232	2.89E-02	1.37E-06	9.63E-03	5.53E-03	5.50E-03
U-233	1.33E-02	1.66E-06	4.37E-06	1.19E-02	1.19E-02
U-234	1.30E-02	7.13E-07	2.83E-06	1.23E-02	1.23E-02
U-235	1.15E-02	7.54E-04	9.85E-10	1.38E-02	1.38E-02
U-235+D	-	8.08E-04	9.85E-10	-	-
U-235+E	-	8.08E-04	-	-	-
U-236	1.18E-02	4.50E-07	2.96E-08	1.34E-02	1.34E-02
U-237	6.29E-06	6.17E-04	3.75E+01	9.32E+02	2.49E+01
U-238	1.07E-02	2.92E-07	1.55E-10	1.48E-02	1.48E-02
U-238+D	1.07E-02	-	1.55E-10	-	-
U-238+E	1.07E-02	2.09E-04	1.55E-10	1.48E-02	1.48E-02
U-239	8.14E-08	2.49E-04	1.55E+04	2.06E+07	1.33E+03
U-240	1.96E-06	6.85E-06	4.31E+02	3.48E+04	8.09E+01
V-47	1.07E-07	5.24E-03	1.12E+04	1.96E+06	1.75E+02
V-48	8.88E-06	1.59E-02	1.56E+01	2.19E+02	1.41E+01

Output generated 06JUL2010:04:50:47

Default

Resident Building Dose Compliance Concentrations for Ambient Air

Radionuclide	Inhalation DCF (mrem/pCi)	External Exposure DCF (Submersion) (mrem/yr per pCi/m^3)	Lambda	Resident Ambient Air BDCC (pCi/m^3)	Resident Ambient Air BDCC (no decay) (pCi/m^3)
V-49	1.26E-07	0.00E+00	7.67E-01	1.81E+03	1.26E+03
W-176	1.52E-07	6.98E-04	2.64E+03	1.62E+06	6.15E+02
W-177	8.88E-08	4.56E-03	2.70E+03	5.47E+05	2.03E+02
W-178	2.66E-07	4.47E-05	1.17E+01	6.77E+03	5.81E+02
W-178+D	2.66E-07	-	1.17E+01	-	-
W-178+E	2.66E-07	-	1.17E+01	-	-
W-179	3.40E-09	1.75E-04	9.71E+03	5.13E+07	5.28E+03
W-181	9.99E-08	1.35E-04	2.09E+00	3.14E+03	1.32E+03
W-185	4.44E-07	5.80E-06	3.37E+00	1.24E+03	3.57E+02
W-187	7.03E-07	2.49E-03	2.54E+02	3.73E+04	1.47E+02
W-188	2.11E-06	1.28E-05	3.64E+00	2.81E+02	7.52E+01
Xe-120	-	2.09E-03	9.11E+03	-	-
Xe-121	-	1.01E-02	9.08E+03	-	-
Xe-122	-	2.56E-04	3.02E+02	-	-
Xe-123	-	3.29E-03	2.92E+03	-	-
Xe-125	-	1.26E-03	3.57E+02	-	-
Xe-127	-	1.31E-03	6.95E+00	-	-
Xe-129m	-	1.07E-04	3.16E+01	-	-
Xe-131m	-	4.07E-05	2.13E+01	-	-
Xe-133	-	1.55E-04	4.82E+01	-	-
Xe-133m	-	1.49E-04	1.16E+02	-	-
Xe-135	-	1.28E-03	6.68E+02	-	-
Xe-135m	-	2.22E-03	2.38E+04	-	-
Xe-138	-	6.40E-03	2.57E+04	-	-
Y-86	1.67E-06	1.97E-02	4.12E+02	1.40E+04	3.40E+01
Y-86m	9.99E-08	1.12E-03	7.59E+03	4.46E+06	5.87E+02
Y-87	1.37E-06	2.32E-03	7.56E+01	6.97E+03	9.22E+01
Y-88	1.52E-05	1.52E-02	2.37E+00	2.38E+01	9.08E+00
Y-90	5.18E-06	9.24E-05	9.49E+01	2.90E+03	3.06E+01
Y-90m	3.52E-07	3.23E-03	1.90E+03	3.58E+05	1.88E+02

Output generated 06JUL2010:04:50:47

Default

Resident Building Dose Compliance Concentrations for Ambient Air

Radionuclide	Inhalation DCF (mrem/pCi)	External Exposure DCF (Submersion) (mrem/yr per pCi/m^3)	Lambda	Resident Ambient Air BDCC (pCi/m^3)	Resident Ambient Air BDCC (no decay) (pCi/m^3)
Y-91	2.63E-05	7.26E-05	4.32E+00	2.65E+01	6.04E+00
Y-91m	3.70E-08	2.77E-03	7.33E+03	2.54E+06	3.47E+02
Y-92	6.29E-07	1.54E-03	1.71E+03	3.15E+05	1.84E+02
Y-93	1.48E-06	6.16E-04	6.01E+02	6.06E+04	1.01E+02
Y-94	9.99E-08	6.29E-03	1.91E+04	2.86E+06	1.50E+02
Y-95	5.55E-08	5.44E-03	3.40E+04	6.12E+06	1.80E+02
Yb-162	4.81E-08	5.74E-04	1.93E+04	2.26E+07	1.17E+03
Yb-166	2.66E-06	2.74E-04	1.07E+02	6.28E+03	5.87E+01
Yb-167	2.41E-08	1.11E-03	2.08E+04	1.72E+07	8.25E+02
Yb-169	9.25E-06	1.32E-03	7.90E+00	1.33E+02	1.68E+01
Yb-175	2.41E-06	2.04E-04	6.04E+01	3.93E+03	6.52E+01
Yb-177	2.37E-07	1.03E-03	3.20E+03	1.29E+06	4.03E+02
Yb-178	2.59E-07	1.89E-04	4.92E+03	2.71E+06	5.52E+02
Zn-62	1.85E-06	2.24E-03	6.56E+02	4.75E+04	7.24E+01
Zn-63	1.30E-07	5.84E-03	9.56E+03	1.49E+06	1.56E+02
Zn-65	5.92E-06	3.17E-03	1.04E+00	3.98E+01	2.48E+01
Zn-69	9.62E-08	2.32E-05	6.39E+03	1.02E+07	1.59E+03
Zn-69m	8.88E-07	2.15E-03	4.41E+02	5.76E+04	1.31E+02
Zn-71m	5.55E-07	8.16E-03	1.55E+03	1.37E+05	8.84E+01
Zn-72	4.44E-06	7.20E-04	1.31E+02	4.55E+03	3.49E+01
Zr-86	1.55E-06	1.37E-03	3.68E+02	3.31E+04	9.01E+01
Zr-88	9.62E-06	2.02E-03	3.03E+00	5.09E+01	1.60E+01
Zr-89	1.92E-06	6.20E-03	7.74E+01	4.29E+03	5.54E+01
Zr-93	3.70E-05	0.00E+00	4.53E-07	4.29E+00	4.29E+00
Zr-95	1.78E-05	3.92E-03	3.95E+00	3.49E+01	8.65E+00
Zr-97	3.40E-06	1.04E-03	3.59E+02	1.60E+04	4.46E+01

Output generated 06JUL2010:04:50:47

Default

Resident Equation Inputs for 3-D Direct External Exposure

Variable	Value	
(room size)	Default	- Default
DL (dose limit) unitless	1	
ICRP Rule	60	
F_i (fraction of time spent in compartment) unitless	1	
$F_{OFF\text{-}SET}$ (off-set factor) unitless	1	
ED_r (exposure duration - resident) years	1	
ET_r (exposure time - resident) hr/day	24	
t_r (time-resident) yr	1	
F_{in} (fraction time spent indoor) unitless	1	
F_{am} (area and materials factor) unitless	1	
EF_r (exposure frequency) d/yr	350	
GSF (gamma shielding factor) unitless	1	

Output generated 06JUL2010:04:50:47

Default

Resident Building Dose Compliance Concentrations for 3-D Direct External Exposure

Radionuclide	External Exposure DCF (Infinite Volume) (mrem/yr per pCi/g)	External Exposure DCF (Ground Plane) (mrem/yr per pCi/cm^2)	External Exposure DCF (1 cm) (mrem/yr per pCi/g)	External Exposure DCF (5 cm) (mrem/yr per pCi/g)	External Exposure DCF (15 cm) (mrem/yr per pCi/g)	F_{surf}	Lambda	Resident 3-D External BDCC (infinite depth) (pCi/g)	Resident 3-D External BDCC (ground plane) (pCi/cm^2)	Resident 3-D External BDCC (1 cm) (pCi/g)	Resident 3-D External BDCC (5 cm) (pCi/g)	Resident 3-D External BDCC (15 cm) (pCi/g)	Resident 3-D External BDCC (mass) (mg/kg)
Ac-223	1.98E-02	5.16E-03	4.81E-03	1.31E-02	1.87E-02	2.69E+00	1.66E+05	3.25E+06	1.24E+07	1.33E+07	4.91E+06	3.44E+06	8.49E-09
Ac-223+D	3.00E-01	1.25E-01	6.98E-02	1.88E-01	2.80E-01	1.24E+00	1.66E+05	4.64E+05	1.12E+06	2.00E+06	7.39E+05	4.98E+05	1.21E-09
Ac-223+E	3.00E-01	1.25E-01	6.98E-02	1.88E-01	2.80E-01	-	1.66E+05	-	-	-	-	-	-
Ac-224	7.72E-01	2.07E-01	2.05E-01	5.50E-01	7.53E-01	2.47E+00	2.09E+03	1.14E+03	4.28E+03	4.31E+03	1.61E+03	1.17E+03	2.38E-10
Ac-225	5.76E-02	1.72E-02	1.64E-02	4.25E-02	5.65E-02	2.18E+00	2.53E+01	2.10E+02	7.05E+02	7.36E+02	2.85E+02	2.14E+02	3.62E-09
Ac-225+D	1.18E+00	2.99E-01	2.54E-01	7.11E-01	1.07E+00	2.09E+00	2.53E+01	1.07E+01	4.22E+01	4.98E+01	1.78E+01	1.18E+01	1.84E-10
Ac-225+E	1.18E+00	2.99E-01	2.54E-01	7.11E-01	1.07E+00	-	2.53E+01	-	-	-	-	-	-
Ac-226	5.67E-01	1.58E-01	1.40E-01	3.86E-01	5.48E-01	2.28E+00	2.09E+02	1.69E+02	6.08E+02	6.85E+02	2.48E+02	1.75E+02	3.54E-10
Ac-227	4.46E-04	1.65E-04	1.31E-04	3.36E-04	4.40E-04	2.36E+00	3.18E-02	1.01E+03	2.73E+03	3.41E+03	1.34E+03	1.02E+03	1.39E-05
Ac-228	5.65E+00	1.10E+00	1.07E+00	3.08E+00	4.89E+00	1.88E+00	9.90E+02	9.72E+01	5.01E+02	5.11E+02	1.79E+02	1.12E+02	4.34E-11
Ag-102	2.00E+01	3.72E+00	3.71E+00	1.07E+01	1.71E+01	1.22E+00	2.82E+04	1.21E+03	6.48E+03	6.50E+03	2.26E+03	1.41E+03	8.48E-12
Ag-103	4.18E+00	8.69E-01	8.47E-01	2.41E+00	3.73E+00	1.36E+00	5.54E+03	1.02E+03	4.89E+03	5.02E+03	1.77E+03	1.14E+03	3.67E-11
Ag-103+D	4.18E+00	8.80E-01	8.49E-01	2.41E+00	3.73E+00	-	5.54E+03	-	-	-	-	-	-
Ag-104	1.56E+01	2.94E+00	2.98E+00	8.56E+00	1.36E+01	1.25E+00	5.26E+03	2.81E+02	1.49E+03	1.47E+03	5.13E+02	3.24E+02	1.08E-11
Ag-104m	6.88E+00	1.33E+00	1.31E+00	3.75E+00	5.93E+00	1.23E+00	1.09E+04	1.34E+03	6.93E+03	7.05E+03	2.46E+03	1.55E+03	2.49E-11
Ag-105	2.70E+00	5.72E-01	5.73E-01	1.63E+00	2.48E+00	1.27E+00	6.17E+00	1.88E+00	8.88E+00	8.87E+00	3.12E+00	2.05E+00	6.20E-11
Ag-106	3.90E+00	8.65E-01	8.09E-01	2.29E+00	3.52E+00	1.31E+00	1.52E+04	3.10E+03	1.40E+04	1.50E+04	5.28E+03	3.43E+03	4.20E-11
Ag-106m	1.64E+01	3.08E+00	3.13E+00	9.01E+00	1.42E+01	1.26E+00	3.01E+01	1.52E+00	8.08E+00	7.95E+00	2.76E+00	1.75E+00	1.04E-11
Ag-108	1.14E-01	1.05E-01	2.98E-02	7.03E-02	1.04E-01	1.25E+00	1.54E+05	1.12E+06	1.23E+06	4.30E+06	1.82E+06	1.23E+06	1.53E-09
Ag-108m	9.01E+00	1.81E+00	1.82E+00	5.20E+00	8.08E+00	1.25E+00	5.46E-03	9.29E-02	4.62E-01	4.59E-01	1.61E-01	1.04E-01	3.57E-09
Ag-108m+D	9.03E+00	1.82E+00	1.83E+00	5.20E+00	8.08E+00	-	-	-	-	-	-	-	-
Ag-108m+E	9.03E+00	1.82E+00	1.83E+00	5.20E+00	8.08E+00	-	-	-	-	-	-	-	-
Ag-109m	1.02E-02	8.78E-03	4.16E-03	8.60E-03	1.02E-02	1.74E+00	5.52E+05	3.24E+07	3.77E+07	7.95E+07	3.85E+07	3.23E+07	1.24E-08
Ag-110	2.37E-01	1.90E-01	6.99E-02	1.48E-01	2.14E-01	1.25E+00	8.88E+05	3.13E+06	3.90E+06	1.06E+07	4.99E+06	3.46E+06	7.52E-10
Ag-110m	1.62E+01	3.01E+00	3.06E+00	8.82E+00	1.40E+01	1.25E+00	1.01E+00	8.20E-02	4.41E-01	4.34E-01	1.50E-01	9.47E-02	1.73E-11
Ag-110m+D	1.62E+01	3.01E+00	3.06E+00	8.82E+00	1.40E+01	-	-	-	-	-	-	-	-
Ag-110m+E	1.62E+01	3.01E+00	3.06E+00	8.82E+00	1.40E+01	-	-	-	-	-	-	-	-
Ag-111	1.40E-01	6.16E-02	3.19E-02	8.78E-02	1.31E-01	1.41E+00	3.40E+01	1.80E+02	4.08E+02	7.87E+02	2.86E+02	1.92E+02	1.14E-09
Ag-112	4.05E+00	8.71E-01	7.70E-01	2.16E+00	3.43E+00	1.36E+00	1.95E+03	3.69E+02	1.71E+03	1.94E+03	6.90E+02	4.35E+02	4.12E-11

Output generated 06JUL2010:04:50:47

Default

Resident Building Dose Compliance Concentrations for 3-D Direct External Exposure

Radionuclide	External Exposure DCF (Infinite Volume) (mrem/yr per pCi/g)	External Exposure DCF (Ground Plane) (mrem/yr per pCi/cm^2)	External Exposure DCF (1 cm) (mrem/yr per pCi/g)	External Exposure DCF (5 cm) (mrem/yr per pCi/g)	External Exposure DCF (15 cm) (mrem/yr per pCi/g)	F_{surf}	Lambda	Resident 3-D External BDCC (infinite depth) (pCi/g)	Resident 3-D External BDCC (ground plane) (pCi/cm^2)	Resident 3-D External BDCC (1 cm) (pCi/g)	Resident 3-D External BDCC (5 cm) (pCi/g)	Resident 3-D External BDCC (15 cm) (pCi/g)	Resident 3-D External BDCC (mass) (mg/kg)
Ag-115	4.31E+00	8.75E-01	7.96E-01	2.26E+00	3.62E+00	1.08E+00	1.82E+04	4.08E+03	2.01E+04	2.21E+04	7.79E+03	4.86E+03	5.00E-11
Al-26	1.65E+01	2.88E+00	2.93E+00	8.47E+00	1.37E+01	1.23E+00	9.68E-07	5.14E-02	2.94E-01	2.90E-01	1.00E-01	6.19E-02	2.68E-06
Al-28	1.16E+01	2.00E+00	1.94E+00	5.61E+00	9.29E+00	1.20E+00	1.63E+05	1.22E+04	7.08E+04	7.29E+04	2.52E+04	1.52E+04	4.08E-12
Am-237	1.71E+00	3.94E-01	3.95E-01	1.10E+00	1.60E+00	1.36E+00	4.99E+03	2.24E+03	9.70E+03	9.68E+03	3.49E+03	2.39E+03	2.06E-10
Am-238	5.02E+00	9.65E-01	9.74E-01	2.78E+00	4.35E+00	1.49E+00	3.72E+03	5.19E+02	2.70E+03	2.67E+03	9.36E+02	5.99E+02	6.44E-11
Am-239	8.82E-01	2.43E-01	2.37E-01	6.32E-01	8.62E-01	2.02E+00	5.10E+02	2.99E+02	1.08E+03	1.11E+03	4.17E+02	3.06E+02	2.71E-10
Am-240	5.84E+00	1.12E+00	1.13E+00	3.21E+00	5.07E+00	1.67E+00	1.20E+02	1.28E+01	6.68E+01	6.62E+01	2.33E+01	1.47E+01	4.98E-11
Am-241	3.71E-02	2.72E-02	1.84E-02	3.45E-02	3.71E-02	1.52E+00	1.60E-03	1.85E+01	2.53E+01	3.74E+01	1.99E+01	1.85E+01	5.40E-06
Am-242	4.48E-02	1.88E-02	1.40E-02	3.51E-02	4.48E-02	1.92E+00	3.79E+02	4.60E+03	1.10E+04	1.48E+04	5.87E+03	4.60E+03	5.70E-09
Am-242m	1.44E-03	2.64E-03	6.47E-04	1.19E-03	1.43E-03	1.95E+00	4.56E-03	3.73E+02	2.03E+02	8.28E+02	4.51E+02	3.75E+02	3.56E-05
Am-242m+D	6.15E-02	2.44E-02	1.74E-02	4.44E-02	5.93E-02	1.73E+00	4.56E-03	9.82E+00	2.48E+01	3.46E+01	1.36E+01	1.02E+01	9.38E-07
Am-242m+E	6.15E-02	2.50E-02	1.75E-02	4.44E-02	5.95E-02	-	4.56E-03	-	-	-	-	-	-
Am-243	1.24E-01	5.59E-02	4.90E-02	1.08E-01	1.24E-01	1.38E+00	9.39E-05	6.09E+00	1.35E+01	1.54E+01	7.01E+00	6.09E+00	3.06E-05
Am-243+D	8.13E-01	2.36E-01	2.26E-01	5.87E-01	7.91E-01	1.25E+00	9.39E-05	1.03E+00	3.54E+00	3.70E+00	1.42E+00	1.06E+00	5.15E-06
Am-243+E	8.13E-01	2.36E-01	2.26E-01	5.87E-01	7.91E-01	-	9.39E-05	-	-	-	-	-	-
Am-244	4.48E+00	8.87E-01	8.84E-01	2.52E+00	3.95E+00	1.24E+00	6.01E+02	1.13E+02	5.70E+02	5.72E+02	2.01E+02	1.28E+02	8.90E-11
Am-244m	1.07E-02	6.48E-02	6.51E-03	8.95E-03	1.05E-02	2.05E+00	1.40E+04	6.65E+05	1.10E+05	1.09E+06	7.96E+05	6.80E+05	2.25E-08
Am-245	1.33E-01	4.81E-02	3.43E-02	9.21E-02	1.29E-01	1.31E+00	2.96E+03	1.77E+04	4.90E+04	6.87E+04	2.56E+04	1.83E+04	2.85E-09
Am-246	3.67E+00	7.94E-01	7.61E-01	2.14E+00	3.30E+00	1.33E+00	9.34E+03	1.99E+03	9.23E+03	9.62E+03	3.41E+03	2.22E+03	1.02E-10
Am-246m	6.01E+00	1.16E+00	1.13E+00	3.25E+00	5.17E+00	1.80E+00	1.46E+04	1.41E+03	7.27E+03	7.47E+03	2.60E+03	1.63E+03	4.61E-11
Ar-37	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.22E+00	-	-	-	-	-	-
Ar-39	8.02E-04	2.95E-03	2.95E-04	6.29E-04	7.89E-04	1.31E+00	2.58E-03	9.94E+02	2.70E+02	2.71E+03	1.27E+03	1.01E+03	2.92E-05
Ar-41	7.93E+00	1.42E+00	1.41E+00	4.08E+00	6.62E+00	1.22E+00	3.32E+03	3.58E+02	1.99E+03	2.01E+03	6.95E+02	4.29E+02	8.58E-12
As-69	5.60E+00	1.30E+00	1.19E+00	3.32E+00	5.09E+00	1.26E+00	2.40E+04	3.54E+03	1.53E+04	1.67E+04	5.97E+03	3.90E+03	1.98E-11
As-69+D	1.06E+01	2.28E+00	2.16E+00	6.12E+00	9.49E+00	1.09E+00	2.40E+04	2.16E+03	1.01E+04	1.06E+04	3.75E+03	2.42E+03	1.21E-11
As-70	2.44E+01	4.55E+00	4.55E+00	1.31E+01	2.09E+01	1.25E+00	6.92E+03	2.36E+02	1.27E+03	1.27E+03	4.41E+02	2.77E+02	4.64E-12
As-71	2.98E+00	6.33E-01	6.38E-01	1.81E+00	2.74E+00	1.26E+00	9.37E+01	2.60E+01	1.23E+02	1.22E+02	4.29E+01	2.83E+01	3.82E-11
As-71+D	2.98E+00	6.33E-01	6.38E-01	1.81E+00	2.74E+00	-	-	-	-	-	-	-	-
As-72	1.03E+01	2.11E+00	2.03E+00	5.80E+00	9.08E+00	1.25E+00	2.33E+02	1.89E+01	9.22E+01	9.58E+01	3.36E+01	2.14E+01	1.13E-11

Output generated 06JUL2010:04:50:47

Default

Resident Building Dose Compliance Concentrations for 3-D Direct External Exposure

Radionuclide	External Exposure DCF (Infinite Volume) (mrem/yr per pCi/g)	External Exposure DCF (Ground Plane) (mrem/yr per pCi/cm^2)	External Exposure DCF (1 cm) (mrem/yr per pCi/g)	External Exposure DCF (5 cm) (mrem/yr per pCi/g)	External Exposure DCF (15 cm) (mrem/yr per pCi/g)	F_{surf}	Lambda	Resident 3-D External BDCC (infinite depth) (pCi/g)	Resident 3-D External BDCC (ground plane) (pCi/cm^2)	Resident 3-D External BDCC (1 cm) (pCi/g)	Resident 3-D External BDCC (5 cm) (pCi/g)	Resident 3-D External BDCC (15 cm) (pCi/g)	Resident 3-D External BDCC (mass) (mg/kg)
As-73	7.83E-03	6.05E-03	4.31E-03	7.52E-03	7.83E-03	4.36E+00	3.15E+00	1.00E+02	1.30E+02	1.83E+02	1.05E+02	1.00E+02	4.52E-09
As-74	4.21E+00	8.72E-01	8.60E-01	2.44E+00	3.79E+00	1.25E+00	1.42E+01	2.82E+00	1.36E+01	1.38E+01	4.86E+00	3.14E+00	2.84E-11
As-76	2.54E+00	6.12E-01	5.13E-01	1.42E+00	2.22E+00	1.26E+00	2.31E+02	7.53E+01	3.12E+02	3.72E+02	1.34E+02	8.60E+01	4.81E-11
As-77	4.53E-02	1.65E-02	1.03E-02	2.87E-02	4.25E-02	1.26E+00	1.56E+02	2.86E+03	7.87E+03	1.26E+04	4.51E+03	3.05E+03	2.73E-09
As-78	7.63E+00	1.51E+00	1.43E+00	4.05E+00	6.49E+00	1.24E+00	4.02E+03	4.43E+02	2.24E+03	2.37E+03	8.35E+02	5.20E+02	1.67E-11
At-207	7.61E+00	1.42E+00	1.45E+00	4.14E+00	6.55E+00	1.49E+00	3.37E+03	3.10E+02	1.66E+03	1.63E+03	5.70E+02	3.61E+02	3.69E-11
At-211	1.03E-01	3.87E-02	3.60E-02	8.41E-02	1.02E-01	2.89E+00	8.42E+02	2.95E+03	7.84E+03	8.44E+03	3.61E+03	2.98E+03	1.44E-09
At-211+D	1.29E-01	4.38E-02	4.10E-02	9.88E-02	1.25E-01	2.89E+00	8.42E+02	2.35E+03	6.94E+03	7.40E+03	3.07E+03	2.43E+03	1.14E-09
At-211+E	3.82E+00	7.49E-01	7.52E-01	2.14E+00	3.32E+00	-	8.42E+02	-	-	-	-	-	-
At-215	1.02E-03	2.15E-04	2.18E-04	6.21E-04	9.44E-04	1.27E+00	2.19E+11	1.76E+14	8.36E+14	8.22E+14	2.89E+14	1.90E+14	3.35E-07
At-216	3.99E-03	1.51E-03	1.41E-03	3.32E-03	3.99E-03	1.76E+00	7.28E+10	1.08E+13	2.87E+13	3.07E+13	1.30E+13	1.08E+13	6.22E-08
At-217	1.65E-03	3.42E-04	3.47E-04	9.81E-04	1.50E-03	1.26E+00	6.77E+08	3.39E+11	1.64E+12	1.61E+12	5.71E+11	3.73E+11	2.11E-07
At-218	4.87E-03	4.25E-03	2.70E-03	4.66E-03	4.87E-03	3.06E+00	1.09E+07	7.65E+08	8.77E+08	1.38E+09	7.99E+08	7.65E+08	2.96E-08
Au-193	5.48E-01	1.66E-01	1.57E-01	3.94E-01	5.28E-01	1.57E+00	3.44E+02	4.17E+02	1.38E+03	1.46E+03	5.81E+02	4.33E+02	4.54E-10
Au-194	6.15E+00	1.13E+00	1.16E+00	3.30E+00	5.24E+00	1.77E+00	1.54E+02	1.47E+01	7.98E+01	7.83E+01	2.74E+01	1.73E+01	3.60E-11
Au-195	1.81E-01	8.23E-02	7.24E-02	1.58E-01	1.81E-01	2.03E+00	1.38E+00	5.24E+00	1.15E+01	1.31E+01	6.02E+00	5.24E+00	1.43E-09
Au-195m	9.33E-01	2.15E-01	2.18E-01	6.10E-01	8.90E-01	1.28E+00	7.17E+05	6.26E+05	2.72E+06	2.68E+06	9.57E+05	6.56E+05	3.31E-10
Au-198	2.16E+00	4.75E-01	4.59E-01	1.31E+00	1.98E+00	1.27E+00	9.38E+01	3.56E+01	1.62E+02	1.68E+02	5.89E+01	3.90E+01	1.46E-10
Au-198m	2.41E+00	6.10E-01	6.12E-01	1.66E+00	2.33E+00	1.29E+00	1.10E+02	3.70E+01	1.46E+02	1.45E+02	5.35E+01	3.81E+01	1.29E-10
Au-199	3.54E-01	9.30E-02	9.34E-02	2.52E-01	3.47E-01	1.32E+00	8.06E+01	1.80E+02	6.84E+02	6.81E+02	2.53E+02	1.84E+02	8.61E-10
Au-200	1.63E+00	3.93E-01	3.17E-01	8.90E-01	1.40E+00	1.27E+00	7.53E+03	3.79E+03	1.57E+04	1.95E+04	6.95E+03	4.40E+03	1.96E-10
Au-200m	1.13E+01	2.31E+00	2.33E+00	6.68E+00	1.03E+01	2.57E+00	3.25E+02	1.16E+01	5.70E+01	5.65E+01	1.97E+01	1.28E+01	1.39E-11
Au-201	2.89E-01	1.05E-01	6.32E-02	1.73E-01	2.63E-01	1.26E+00	1.38E+04	3.95E+04	1.08E+05	1.81E+05	6.58E+04	4.34E+04	1.12E-09
Ba-126	7.37E-01	1.76E-01	1.64E-01	4.55E-01	6.83E-01	1.35E+00	3.77E+03	3.96E+03	1.65E+04	1.77E+04	6.41E+03	4.27E+03	2.56E-10
Ba-128	2.67E-01	7.91E-02	6.60E-02	1.75E-01	2.54E-01	1.42E+00	1.04E+02	2.87E+02	9.66E+02	1.16E+03	4.38E+02	3.01E+02	6.84E-10
Ba-131	2.24E+00	5.01E-01	4.90E-01	1.37E+00	2.05E+00	1.28E+00	2.14E+01	7.80E+00	3.49E+01	3.56E+01	1.27E+01	8.51E+00	9.25E-11
Ba-131m	2.16E-01	7.82E-02	6.88E-02	1.68E-01	2.14E-01	1.38E+00	2.49E+04	8.71E+04	2.41E+05	2.74E+05	1.12E+05	8.79E+04	8.88E-10
Ba-133	1.82E+00	4.35E-01	4.18E-01	1.15E+00	1.70E+00	1.29E+00	6.45E-02	4.59E-01	1.92E+00	2.00E+00	7.24E-01	4.90E-01	1.84E-09
Ba-133m	2.50E-01	6.97E-02	6.06E-02	1.62E-01	2.37E-01	1.44E+00	1.56E+02	4.52E+02	1.62E+03	1.86E+03	6.97E+02	4.77E+02	7.48E-10

Output generated 06JUL2010:04:50:47

Default

Resident Building Dose Compliance Concentrations for 3-D Direct External Exposure

Radionuclide	External Exposure DCF (Infinite Volume) (mrem/yr per pCi/g)	External Exposure DCF (Ground Plane) (mrem/yr per pCi/cm^2)	External Exposure DCF (1 cm) (mrem/yr per pCi/g)	External Exposure DCF (5 cm) (mrem/yr per pCi/g)	External Exposure DCF (15 cm) (mrem/yr per pCi/g)	F_{surf}	Lambda	Resident 3-D External BDCC (infinite depth) (pCi/g)	Resident 3-D External BDCC (ground plane) (pCi/cm^2)	Resident 3-D External BDCC (1 cm) (pCi/g)	Resident 3-D External BDCC (5 cm) (pCi/g)	Resident 3-D External BDCC (15 cm) (pCi/g)	Resident 3-D External BDCC (mass) (mg/kg)
Ba-135m	2.16E-01	6.28E-02	5.35E-02	1.42E-01	2.07E-01	1.41E+00	2.12E+02	7.23E+02	2.49E+03	2.92E+03	1.10E+03	7.56E+02	8.96E-10
Ba-137m	3.38E+00	6.76E-01	6.71E-01	1.92E+00	3.00E+00	1.25E+00	1.43E+05	3.53E+04	1.76E+05	1.77E+05	6.20E+04	3.97E+04	6.57E-11
Ba-139	2.24E-01	1.70E-01	6.68E-02	1.55E-01	2.13E-01	1.28E+00	4.40E+03	1.60E+04	2.11E+04	5.37E+04	2.32E+04	1.69E+04	9.82E-10
Ba-140	9.60E-01	2.22E-01	2.03E-01	5.73E-01	8.77E-01	1.26E+00	1.99E+01	1.71E+01	7.41E+01	8.08E+01	2.87E+01	1.87E+01	2.34E-10
Ba-141	4.76E+00	1.03E+00	9.57E-01	2.70E+00	4.20E+00	1.27E+00	1.99E+04	3.44E+03	1.58E+04	1.71E+04	6.05E+03	3.90E+03	4.72E-11
Ba-142	6.04E+00	1.18E+00	1.16E+00	3.32E+00	5.24E+00	1.28E+00	3.44E+04	4.63E+03	2.38E+04	2.41E+04	8.43E+03	5.34E+03	3.72E-11
Be-10	1.00E-03	3.98E-03	3.66E-04	7.85E-04	9.88E-04	1.31E+00	4.33E-07	7.93E+02	2.00E+02	2.18E+03	1.01E+03	8.05E+02	3.55E-02
Be-7	2.69E-01	5.51E-02	5.60E-02	1.59E-01	2.44E-01	1.26E+00	4.75E+00	1.48E+01	7.19E+01	7.08E+01	2.48E+01	1.62E+01	4.22E-11
Bi-200	1.33E+01	2.64E+00	2.67E+00	7.59E+00	1.18E+01	1.32E+00	1.00E+04	5.96E+02	3.00E+03	2.96E+03	1.04E+03	6.72E+02	2.31E-11
Bi-201	7.55E+00	1.49E+00	1.48E+00	4.20E+00	6.58E+00	1.23E+00	3.37E+03	3.79E+02	1.91E+03	1.94E+03	6.81E+02	4.34E+02	4.38E-11
Bi-202	1.55E+01	2.96E+00	3.00E+00	8.60E+00	1.35E+01	1.75E+00	3.64E+03	1.40E+02	7.31E+02	7.21E+02	2.52E+02	1.60E+02	1.51E-11
Bi-203	1.44E+01	2.54E+00	2.59E+00	7.48E+00	1.20E+01	1.75E+00	5.16E+02	2.14E+01	1.21E+02	1.19E+02	4.11E+01	2.56E+01	1.63E-11
Bi-205	1.02E+01	1.80E+00	1.84E+00	5.28E+00	8.50E+00	2.02E+00	1.65E+01	8.38E-01	4.75E+00	4.65E+00	1.62E+00	1.00E+00	2.02E-11
Bi-206	1.90E+01	3.57E+00	3.62E+00	1.04E+01	1.64E+01	1.60E+00	4.05E+01	1.39E+00	7.40E+00	7.30E+00	2.54E+00	1.61E+00	1.37E-11
Bi-207	8.82E+00	1.69E+00	1.70E+00	4.87E+00	7.67E+00	1.24E+00	1.82E-02	9.62E-02	5.02E-01	4.98E-01	1.74E-01	1.11E-01	2.12E-09
Bi-210	5.45E-03	4.10E-02	3.15E-03	4.53E-03	5.35E-03	1.31E+00	5.05E+01	7.38E+03	9.81E+02	1.27E+04	8.87E+03	7.51E+03	5.96E-08
Bi-210m	1.27E+00	2.80E-01	2.85E-01	8.09E-01	1.20E+00	1.27E+00	2.31E-07	6.46E-01	2.93E+00	2.88E+00	1.01E+00	6.85E-01	1.14E-03
Bi-210m+D	1.28E+00	3.51E-01	2.93E-01	8.21E-01	1.21E+00	-	-	-	-	-	-	-	-
Bi-210m+E	1.28E+00	3.51E-01	2.93E-01	8.21E-01	1.21E+00	-	-	-	-	-	-	-	-
Bi-211	2.37E-01	5.13E-02	5.22E-02	1.48E-01	2.22E-01	1.27E+00	1.70E+05	5.90E+05	2.72E+06	2.68E+06	9.45E+05	6.30E+05	1.42E-09
Bi-212	1.11E+00	2.63E-01	2.14E-01	6.02E-01	9.55E-01	2.59E+00	6.02E+03	2.18E+03	9.22E+03	1.13E+04	4.02E+03	2.54E+03	1.49E-10
Bi-212+D	8.95E+00	1.51E+00	1.49E+00	4.33E+00	7.18E+00	1.22E+00	6.02E+03	5.74E+02	3.42E+03	3.44E+03	1.19E+03	7.16E+02	3.93E-11
Bi-212+E	8.95E+00	1.51E+00	1.49E+00	4.33E+00	7.18E+00	-	6.02E+03	-	-	-	-	-	-
Bi-213	7.16E-01	1.96E-01	1.54E-01	4.33E-01	6.55E-01	2.92E+00	7.98E+03	3.98E+03	1.45E+04	1.85E+04	6.59E+03	4.35E+03	2.06E-10
Bi-213+D	9.81E-01	2.49E-01	2.03E-01	5.71E-01	8.77E-01	1.06E+00	7.98E+03	8.00E+03	3.16E+04	3.86E+04	1.38E+04	8.96E+03	4.15E-10
Bi-213+E	9.81E-01	2.49E-01	2.03E-01	5.71E-01	8.77E-01	-	7.98E+03	-	-	-	-	-	-
Bi-214	9.33E+00	1.68E+00	1.66E+00	4.79E+00	7.76E+00	1.42E+00	1.83E+04	1.44E+03	8.00E+03	8.10E+03	2.80E+03	1.73E+03	3.27E-11
Bi-214+D	9.33E+00	1.68E+00	1.66E+00	4.79E+00	7.76E+00	-	-	-	-	-	-	-	-
Bi-214+E	9.33E+00	1.73E+00	1.66E+00	4.79E+00	7.76E+00	-	1.83E+04	-	-	-	-	-	-

Output generated 06JUL2010:04:50:47

Default

Resident Building Dose Compliance Concentrations for 3-D Direct External Exposure

Radionuclide	External Exposure DCF (Infinite Volume) (mrem/yr per pCi/g)	External Exposure DCF (Ground Plane) (mrem/yr per pCi/cm^2)	External Exposure DCF (1 cm) (mrem/yr per pCi/g)	External Exposure DCF (5 cm) (mrem/yr per pCi/g)	External Exposure DCF (15 cm) (mrem/yr per pCi/g)	F_{surf}	Lambda	Resident 3-D External BDCC (infinite depth) (pCi/g)	Resident 3-D External BDCC (ground plane) (pCi/cm^2)	Resident 3-D External BDCC (1 cm) (pCi/g)	Resident 3-D External BDCC (5 cm) (pCi/g)	Resident 3-D External BDCC (15 cm) (pCi/g)	Resident 3-D External BDCC (mass) (mg/kg)
Bk-245	9.03E-01	2.40E-01	2.37E-01	6.38E-01	8.78E-01	1.89E+00	5.12E+01	3.13E+01	1.18E+02	1.19E+02	4.43E+01	3.22E+01	2.91E-10
Bk-246	5.32E+00	1.04E+00	1.04E+00	2.97E+00	4.64E+00	1.24E+00	1.38E+02	2.19E+01	1.12E+02	1.12E+02	3.92E+01	2.50E+01	7.55E-11
Bk-247	3.95E-01	1.10E-01	1.08E-01	2.83E-01	3.84E-01	1.31E+00	5.02E-04	2.01E+00	7.24E+00	7.37E+00	2.81E+00	2.07E+00	1.92E-06
Bk-249	3.75E-06	6.23E-06	2.31E-06	3.47E-06	3.73E-06	1.28E+00	7.90E-01	3.14E+05	1.89E+05	5.10E+05	3.40E+05	3.16E+05	1.92E-04
Bk-250	5.24E+00	9.84E-01	9.83E-01	2.83E+00	4.51E+00	1.23E+00	1.88E+03	3.05E+02	1.62E+03	1.63E+03	5.64E+02	3.54E+02	7.85E-11
Br-74	2.89E+01	4.73E+00	4.83E+00	1.40E+01	2.31E+01	1.23E+00	1.44E+04	4.22E+02	2.58E+03	2.53E+03	8.69E+02	5.28E+02	4.21E-12
Br-74m	2.50E+01	4.46E+00	4.48E+00	1.29E+01	2.09E+01	1.25E+00	8.78E+03	2.93E+02	1.64E+03	1.64E+03	5.67E+02	3.51E+02	4.79E-12
Br-75	6.56E+00	1.42E+00	1.38E+00	3.92E+00	5.99E+00	1.26E+00	3.72E+03	4.69E+02	2.16E+03	2.23E+03	7.85E+02	5.14E+02	1.83E-11
Br-76	1.61E+01	2.85E+00	2.87E+00	8.32E+00	1.34E+01	1.28E+00	3.75E+02	1.89E+01	1.07E+02	1.06E+02	3.67E+01	2.28E+01	7.46E-12
Br-77	1.69E+00	3.49E-01	3.54E-01	1.01E+00	1.54E+00	1.55E+00	1.08E+02	4.33E+01	2.09E+02	2.06E+02	7.22E+01	4.73E+01	5.96E-11
Br-80	4.48E-01	1.21E-01	9.19E-02	2.59E-01	4.01E-01	1.39E+00	2.09E+04	3.51E+04	1.29E+05	1.71E+05	6.06E+04	3.92E+04	2.60E-10
Br-80m	8.88E-03	1.60E-02	6.86E-03	8.86E-03	8.88E-03	3.51E+00	1.37E+03	4.60E+04	2.55E+04	5.95E+04	4.61E+04	4.60E+04	5.20E-09
Br-82	1.54E+01	2.89E+00	2.95E+00	8.49E+00	1.34E+01	1.25E+00	1.72E+02	9.29E+00	4.96E+01	4.87E+01	1.69E+01	1.07E+01	8.60E-12
Br-83	4.44E-02	3.34E-02	1.01E-02	2.67E-02	4.03E-02	1.26E+00	2.54E+03	4.74E+04	6.30E+04	2.09E+05	7.88E+04	5.22E+04	3.00E-09
Br-84	1.16E+01	1.95E+00	1.94E+00	5.58E+00	9.25E+00	1.24E+00	1.15E+04	8.29E+02	4.94E+03	4.97E+03	1.73E+03	1.04E+03	1.18E-11
C-11	5.60E+00	1.18E+00	1.16E+00	3.30E+00	5.07E+00	1.26E+00	1.79E+04	2.64E+03	1.26E+04	1.28E+04	4.48E+03	2.92E+03	3.16E-12
C-14	1.10E-05	1.48E-05	6.43E-06	1.03E-05	1.10E-05	1.31E+00	1.21E-04	7.26E+04	5.37E+04	1.24E+05	7.76E+04	7.26E+04	1.63E-02
Ca-41	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.95E-06	-	-	-	-	-	-
Ca-45	5.32E-05	4.40E-05	2.48E-05	4.66E-05	5.32E-05	3.83E+00	1.55E+00	1.01E+04	1.22E+04	2.16E+04	1.15E+04	1.01E+04	5.68E-07
Ca-47	6.51E+00	1.17E+00	1.17E+00	3.38E+00	5.46E+00	1.23E+00	5.58E+01	7.27E+00	4.06E+01	4.04E+01	1.40E+01	8.66E+00	1.19E-11
Ca-49	2.16E+01	3.12E+00	3.21E+00	9.47E+00	1.62E+01	1.16E+00	4.18E+04	1.74E+03	1.21E+04	1.17E+04	3.97E+03	2.31E+03	3.95E-12
Cd-104	1.22E+00	2.75E-01	2.63E-01	7.27E-01	1.10E+00	1.36E+00	6.31E+03	3.96E+03	1.76E+04	1.84E+04	6.66E+03	4.41E+03	1.27E-10
Cd-107	4.49E-02	2.72E-02	1.32E-02	3.02E-02	4.20E-02	1.63E+00	9.35E+02	1.33E+04	2.20E+04	4.54E+04	1.98E+04	1.43E+04	2.96E-09
Cd-109	1.22E-02	1.94E-02	6.10E-03	1.06E-02	1.22E-02	1.75E+00	5.45E-01	6.34E+01	3.99E+01	1.27E+02	7.31E+01	6.33E+01	2.46E-08
Cd-113	9.77E-05	6.77E-05	4.18E-05	8.30E-05	9.74E-05	1.35E+00	7.45E-17	5.31E+03	7.66E+03	1.24E+04	6.25E+03	5.33E+03	1.56E+10
Cd-113m	6.01E-04	2.07E-03	2.24E-04	4.74E-04	5.93E-04	1.31E+00	5.10E-02	1.36E+03	3.95E+02	3.65E+03	1.72E+03	1.38E+03	5.85E-06
Cd-115	1.27E+00	2.84E-01	2.65E-01	7.52E-01	1.16E+00	1.11E+00	1.14E+02	8.38E+01	3.76E+02	4.03E+02	1.42E+02	9.23E+01	1.65E-10
Cd-115m	1.47E-01	1.08E-01	3.41E-02	8.36E-02	1.28E-01	1.26E+00	5.67E+00	3.20E+01	4.37E+01	1.38E+02	5.64E+01	3.69E+01	1.26E-09
Cd-117	6.51E+00	1.21E+00	1.20E+00	3.47E+00	5.54E+00	1.27E+00	2.44E+03	3.08E+02	1.65E+03	1.67E+03	5.77E+02	3.61E+02	2.86E-11

Output generated 06JUL2010:04:50:47

Default

Resident Building Dose Compliance Concentrations for 3-D Direct External Exposure

Radionuclide	External Exposure DCF (Infinite Volume) (mrem/yr per pCi/g)	External Exposure DCF (Ground Plane) (mrem/yr per pCi/cm^2)	External Exposure DCF (1 cm) (mrem/yr per pCi/g)	External Exposure DCF (5 cm) (mrem/yr per pCi/g)	External Exposure DCF (15 cm) (mrem/yr per pCi/g)	F_{surf}	Lambda	Resident 3-D External BDCC (infinite depth) (pCi/g)	Resident 3-D External BDCC (ground plane) (pCi/cm^2)	Resident 3-D External BDCC (1 cm) (pCi/g)	Resident 3-D External BDCC (5 cm) (pCi/g)	Resident 3-D External BDCC (15 cm) (pCi/g)	Resident 3-D External BDCC (mass) (mg/kg)
Cd-117m	1.28E+01	2.16E+00	2.22E+00	6.43E+00	1.05E+01	1.26E+00	1.81E+03	1.17E+02	6.93E+02	6.74E+02	2.32E+02	1.42E+02	1.47E-11
Ce-134	1.26E-02	2.51E-02	1.03E-02	1.26E-02	1.26E-02	1.45E+00	8.43E+01	4.82E+03	2.42E+03	5.88E+03	4.83E+03	4.82E+03	1.49E-08
Ce-135	9.74E+00	1.98E+00	2.00E+00	5.73E+00	8.80E+00	1.29E+00	3.45E+02	2.86E+01	1.41E+02	1.40E+02	4.87E+01	3.17E+01	2.18E-11
Ce-137	5.84E-02	3.48E-02	2.00E-02	3.99E-02	5.43E-02	1.45E+00	6.75E+02	8.31E+03	1.39E+04	2.43E+04	1.22E+04	8.94E+03	3.28E-09
Ce-137m	1.76E-01	5.51E-02	4.51E-02	1.15E-01	1.66E-01	1.35E+00	1.76E+02	7.73E+02	2.47E+03	3.02E+03	1.18E+03	8.19E+02	1.17E-09
Ce-139	5.78E-01	1.67E-01	1.54E-01	4.08E-01	5.67E-01	1.37E+00	1.84E+00	2.88E+00	9.97E+00	1.08E+01	4.07E+00	2.93E+00	4.22E-10
Ce-141	2.89E-01	8.09E-02	7.83E-02	2.09E-01	2.85E-01	1.33E+00	7.78E+00	2.11E+01	7.55E+01	7.79E+01	2.92E+01	2.14E+01	7.42E-10
Ce-143	1.38E+00	3.51E-01	3.04E-01	8.39E-01	1.26E+00	1.28E+00	1.84E+02	1.09E+02	4.27E+02	4.93E+02	1.79E+02	1.19E+02	1.64E-10
Ce-144	6.45E-02	2.15E-02	1.94E-02	4.87E-02	6.40E-02	1.32E+00	8.90E-01	1.85E+01	5.56E+01	6.15E+01	2.45E+01	1.86E+01	5.81E-09
Ce-144+D	3.32E-01	2.11E-01	9.10E-02	2.01E-01	2.91E-01	1.12E+00	8.90E-01	4.24E+00	6.66E+00	1.54E+01	6.98E+00	4.83E+00	1.33E-09
Ce-144+E	3.32E-01	2.11E-01	9.10E-02	2.01E-01	2.91E-01	-	8.90E-01	-	-	-	-	-	-
Cf-244	1.27E-04	9.56E-04	1.24E-04	1.27E-04	1.27E-04	2.05E+00	1.88E+04	7.53E+07	9.99E+06	7.70E+07	7.53E+07	7.53E+07	1.90E-06
Cf-246	1.45E-04	6.69E-04	1.02E-04	1.32E-04	1.45E-04	2.04E+00	1.70E+02	5.98E+05	1.30E+05	8.49E+05	6.60E+05	5.99E+05	1.68E-06
Cf-248	8.75E-05	6.51E-04	8.52E-05	8.75E-05	8.75E-05	2.05E+00	7.58E-01	8.30E+03	1.11E+03	8.52E+03	8.30E+03	8.30E+03	5.26E-06
Cf-249	1.72E+00	3.68E-01	3.73E-01	1.06E+00	1.59E+00	1.55E+00	1.98E-03	3.92E-01	1.83E+00	1.81E+00	6.36E-01	4.22E-01	9.57E-08
Cf-250	8.30E-05	6.21E-04	8.09E-05	8.30E-05	8.30E-05	2.05E+00	5.30E-02	6.29E+03	8.41E+02	6.45E+03	6.29E+03	6.29E+03	5.76E-05
Cf-251	4.79E-01	1.32E-01	1.28E-01	3.43E-01	4.70E-01	1.47E+00	7.72E-04	1.48E+00	5.38E+00	5.56E+00	2.07E+00	1.51E+00	9.34E-07
Cf-252	2.95E+00	4.97E-01	5.13E-01	1.49E+00	2.42E+00	2.44E+00	2.63E-01	1.65E-01	9.78E-01	9.48E-01	3.26E-01	2.00E-01	3.07E-10
Cf-253	6.53E-05	6.03E-05	3.00E-05	5.67E-05	6.51E-05	2.04E+00	1.42E+01	1.11E+05	1.20E+05	2.42E+05	1.28E+05	1.12E+05	3.84E-06
Cf-254	1.08E+02	1.81E+01	1.88E+01	5.45E+01	8.86E+01	2.45E+00	4.18E+00	1.68E-02	9.99E-02	9.59E-02	3.32E-02	2.04E-02	1.98E-12
Cl-36	2.48E-03	1.31E-02	9.08E-04	1.81E-03	2.39E-03	1.26E+00	2.30E-06	3.34E+02	6.33E+01	9.11E+02	4.57E+02	3.47E+02	1.01E-02
Cl-38	9.85E+00	1.67E+00	1.64E+00	4.72E+00	7.83E+00	1.20E+00	9.79E+03	8.64E+02	5.10E+03	5.20E+03	1.80E+03	1.09E+03	6.51E-12
Cl-39	8.82E+00	1.65E+00	1.59E+00	4.59E+00	7.39E+00	1.22E+00	6.55E+03	6.35E+02	3.40E+03	3.52E+03	1.22E+03	7.58E+02	7.33E-12
Cm-238	2.44E-01	7.66E-02	7.37E-02	1.88E-01	2.42E-01	1.53E+00	2.53E+03	7.06E+03	2.25E+04	2.34E+04	9.15E+03	7.11E+03	1.29E-09
Cm-240	1.12E-04	8.97E-04	1.06E-04	1.12E-04	1.12E-04	2.18E+00	9.37E+00	3.99E+04	4.99E+03	4.22E+04	4.00E+04	3.99E+04	1.98E-06
Cm-241	2.44E+00	5.43E-01	5.41E-01	1.51E+00	2.26E+00	1.96E+00	7.71E+00	1.68E+00	7.56E+00	7.59E+00	2.71E+00	1.82E+00	1.02E-10
Cm-242	1.28E-04	8.19E-04	1.02E-04	1.19E-04	1.27E-04	2.17E+00	1.55E+00	7.38E+03	1.16E+03	9.27E+03	7.96E+03	7.46E+03	2.23E-06
Cm-243	5.33E-01	1.38E-01	1.35E-01	3.69E-01	5.17E-01	1.38E+00	2.43E-02	1.43E+00	5.55E+00	5.65E+00	2.07E+00	1.48E+00	2.78E-08
Cm-244	8.93E-05	7.52E-04	8.62E-05	8.93E-05	8.93E-05	2.18E+00	3.83E-02	5.46E+03	6.49E+02	5.66E+03	5.46E+03	5.46E+03	6.75E-05

Output generated 06JUL2010:04:50:47

Default

Resident Building Dose Compliance Concentrations for 3-D Direct External Exposure

Radionuclide	External Exposure DCF (Infinite Volume) (mrem/yr per pCi/g)	External Exposure DCF (Ground Plane) (mrem/yr per pCi/cm^2)	External Exposure DCF (1 cm) (mrem/yr per pCi/g)	External Exposure DCF (5 cm) (mrem/yr per pCi/g)	External Exposure DCF (15 cm) (mrem/yr per pCi/g)	F_{surf}	Lambda	Resident 3-D External BDCC (infinite depth) (pCi/g)	Resident 3-D External BDCC (ground plane) (pCi/cm^2)	Resident 3-D External BDCC (1 cm) (pCi/g)	Resident 3-D External BDCC (5 cm) (pCi/g)	Resident 3-D External BDCC (15 cm) (pCi/g)	Resident 3-D External BDCC (mass) (mg/kg)
Cm-245	3.06E-01	9.39E-02	8.99E-02	2.33E-01	3.04E-01	1.48E+00	8.15E-05	2.30E+00	7.50E+00	7.84E+00	3.02E+00	2.32E+00	1.34E-05
Cm-246	8.28E-05	6.72E-04	7.89E-05	8.26E-05	8.28E-05	2.18E+00	1.47E-04	5.78E+03	7.12E+02	6.06E+03	5.79E+03	5.78E+03	1.88E-02
Cm-247	1.65E+00	3.49E-01	3.54E-01	1.01E+00	1.53E+00	1.31E+00	4.44E-08	4.82E-01	2.28E+00	2.25E+00	7.89E-01	5.21E-01	5.20E-03
Cm-247+D	1.72E+00	3.76E-01	3.79E-01	1.06E+00	1.60E+00	-	-	-	-	-	-	-	-
Cm-247+E	1.72E+00	3.76E-01	3.79E-01	1.06E+00	1.60E+00	-	-	-	-	-	-	-	-
Cm-248	8.47E+00	1.42E+00	1.47E+00	4.27E+00	6.96E+00	2.44E+00	1.99E-06	5.05E-02	3.00E-01	2.90E-01	1.00E-01	6.14E-02	1.22E-05
Cm-249	1.07E-01	3.87E-02	2.26E-02	6.32E-02	9.70E-02	1.28E+00	5.68E+03	4.31E+04	1.19E+05	2.05E+05	7.32E+04	4.77E+04	3.66E-09
Cm-250	6.25E+01	1.05E+01	1.09E+01	3.15E+01	5.13E+01	2.45E+00	7.14E-05	6.81E-03	4.05E-02	3.91E-02	1.35E-02	8.30E-03	4.63E-08
Cm-250+D	1.63E+00	-	-	-	-	-	7.14E-05	-	-	-	-	-	-
Cm-250+E	6.42E+01	1.08E+01	1.12E+01	3.25E+01	5.28E+01	-	7.14E-05	-	-	-	-	-	-
Co-55	1.15E+01	2.25E+00	2.24E+00	6.42E+00	1.01E+01	1.23E+00	3.46E+02	2.55E+01	1.30E+02	1.31E+02	4.57E+01	2.91E+01	7.85E-12
Co-56	2.24E+01	3.77E+00	3.88E+00	1.12E+01	1.83E+01	1.21E+00	3.21E+00	1.29E-01	7.65E-01	7.43E-01	2.56E-01	1.57E-01	4.36E-12
Co-57	4.55E-01	1.26E-01	1.28E-01	3.38E-01	4.49E-01	2.15E+00	9.34E-01	1.64E+00	5.92E+00	5.84E+00	2.21E+00	1.66E+00	1.94E-10
Co-58	5.60E+00	1.08E+00	1.09E+00	3.13E+00	4.92E+00	1.25E+00	3.57E+00	5.48E-01	2.84E+00	2.80E+00	9.79E-01	6.23E-01	1.73E-11
Co-58m	1.78E-06	7.76E-06	1.74E-06	1.78E-06	1.78E-06	1.65E+00	6.63E+02	2.36E+08	5.40E+07	2.41E+08	2.35E+08	2.36E+08	4.01E-05
Co-60	1.54E+01	2.68E+00	2.74E+00	7.96E+00	1.29E+01	1.22E+00	1.31E-01	5.93E-02	3.40E-01	3.33E-01	1.15E-01	7.08E-02	5.25E-11
Co-60m	2.31E-02	5.11E-03	4.76E-03	1.27E-02	1.96E-02	1.31E+00	3.48E+04	1.20E+06	5.42E+06	5.82E+06	2.18E+06	1.41E+06	4.01E-09
Co-61	3.17E-01	1.51E-01	9.25E-02	2.18E-01	2.93E-01	1.33E+00	3.68E+03	9.10E+03	1.92E+04	3.12E+04	1.32E+04	9.85E+03	2.93E-10
Co-62m	1.68E+01	3.01E+00	2.97E+00	8.58E+00	1.39E+01	1.22E+00	2.62E+04	1.33E+03	7.43E+03	7.55E+03	2.61E+03	1.61E+03	6.13E-12
Cr-48	2.05E+00	4.71E-01	4.81E-01	1.34E+00	1.94E+00	1.29E+00	2.64E+02	1.04E+02	4.53E+02	4.44E+02	1.59E+02	1.10E+02	3.67E-11
Cr-49	5.58E+00	1.25E+00	1.19E+00	3.36E+00	5.09E+00	1.26E+00	8.65E+03	1.28E+03	5.74E+03	6.01E+03	2.13E+03	1.41E+03	1.41E-11
Cr-51	1.62E-01	3.47E-02	3.54E-02	1.01E-01	1.52E-01	1.27E+00	9.13E+00	4.64E+01	2.16E+02	2.12E+02	7.40E+01	4.95E+01	5.03E-10
Cs-125	3.67E+00	7.99E-01	7.59E-01	2.14E+00	3.32E+00	1.25E+00	8.09E+03	1.84E+03	8.45E+03	8.90E+03	3.15E+03	2.03E+03	5.51E-11
Cs-126	6.01E+00	1.38E+00	1.28E+00	3.58E+00	5.46E+00	1.26E+00	2.22E+05	3.06E+04	1.33E+05	1.43E+05	5.13E+04	3.36E+04	3.37E-11
Cs-127	2.13E+00	4.61E-01	4.53E-01	1.28E+00	1.94E+00	1.27E+00	9.71E+02	3.75E+02	1.73E+03	1.76E+03	6.24E+02	4.11E+02	9.52E-11
Cs-128	4.96E+00	1.11E+00	1.04E+00	2.93E+00	4.49E+00	1.25E+00	9.34E+04	1.57E+04	7.00E+04	7.51E+04	2.66E+04	1.73E+04	4.18E-11
Cs-129	1.33E+00	3.06E-01	2.91E-01	8.11E-01	1.23E+00	1.27E+00	1.89E+02	1.17E+02	5.09E+02	5.34E+02	1.92E+02	1.27E+02	1.55E-10
Cs-130	2.80E+00	6.31E-01	5.82E-01	1.64E+00	2.54E+00	1.25E+00	1.22E+04	3.63E+03	1.61E+04	1.75E+04	6.19E+03	4.01E+03	7.52E-11
Cs-131	7.83E-03	2.09E-02	7.03E-03	7.83E-03	7.83E-03	1.48E+00	2.61E+01	2.35E+03	8.81E+02	2.62E+03	2.35E+03	2.35E+03	2.29E-08

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Resident Building Dose Compliance Concentrations for 3-D Direct External Exposure

Radionuclide	External Exposure DCF (Infinite Volume) (mrem/yr per pCi/g)	External Exposure DCF (Ground Plane) (mrem/yr per pCi/cm^2)	External Exposure DCF (1 cm) (mrem/yr per pCi/g)	External Exposure DCF (5 cm) (mrem/yr per pCi/g)	External Exposure DCF (15 cm) (mrem/yr per pCi/g)	F_{surf}	Lambda	Resident 3-D External BDCC (infinite depth) (pCi/g)	Resident 3-D External BDCC (ground plane) (pCi/cm^2)	Resident 3-D External BDCC (1 cm) (pCi/g)	Resident 3-D External BDCC (5 cm) (pCi/g)	Resident 3-D External BDCC (15 cm) (pCi/g)	Resident 3-D External BDCC (mass) (mg/kg)
Cs-132	3.88E+00	7.81E-01	7.78E-01	2.22E+00	3.45E+00	1.25E+00	3.91E+01	8.40E+00	4.17E+01	4.19E+01	1.47E+01	9.45E+00	5.51E-11
Cs-134	8.90E+00	1.73E+00	1.75E+00	5.02E+00	7.85E+00	1.25E+00	3.36E-01	1.10E-01	5.69E-01	5.61E-01	1.96E-01	1.25E-01	8.54E-11
Cs-134m	6.49E-02	2.63E-02	2.05E-02	4.92E-02	6.43E-02	1.52E+00	2.09E+03	2.21E+04	5.47E+04	7.00E+04	2.92E+04	2.23E+04	2.75E-09
Cs-135	3.21E-05	3.14E-05	1.62E-05	2.89E-05	3.21E-05	1.31E+00	3.01E-07	2.48E+04	2.54E+04	4.90E+04	2.75E+04	2.48E+04	2.16E+01
Cs-135m	9.19E+00	1.76E+00	1.78E+00	5.11E+00	8.04E+00	1.25E+00	6.87E+03	6.24E+02	3.25E+03	3.22E+03	1.12E+03	7.13E+02	2.38E-11
Cs-136	1.25E+01	2.37E+00	2.41E+00	6.90E+00	1.09E+01	1.24E+00	1.93E+01	1.30E+00	6.85E+00	6.75E+00	2.35E+00	1.49E+00	1.77E-11
Cs-137	8.34E-04	3.49E-03	3.86E-04	6.75E-04	8.21E-04	1.31E+00	2.31E-02	9.66E+02	2.31E+02	2.09E+03	1.19E+03	9.81E+02	1.11E-05
Cs-137+D	3.19E+00	6.43E-01	6.36E-01	1.82E+00	2.83E+00	1.25E+00	2.31E-02	2.65E-01	1.31E+00	1.33E+00	4.65E-01	2.98E-01	3.05E-09
Cs-137+E	3.19E+00	6.43E-01	6.36E-01	1.82E+00	2.83E+00	-	2.31E-02	-	-	-	-	-	-
Cs-138	1.48E+01	2.64E+00	2.59E+00	7.50E+00	1.22E+01	1.26E+00	1.13E+04	6.34E+02	3.55E+03	3.61E+03	1.25E+03	7.69E+02	1.50E-11
Cu-60	2.39E+01	4.25E+00	4.27E+00	1.23E+01	2.00E+01	1.22E+00	1.57E+04	5.62E+02	3.16E+03	3.14E+03	1.09E+03	6.73E+02	4.17E-12
Cu-61	4.57E+00	9.58E-01	9.38E-01	2.67E+00	4.12E+00	1.24E+00	1.78E+03	3.28E+02	1.56E+03	1.60E+03	5.62E+02	3.63E+02	2.18E-11
Cu-62	5.60E+00	1.30E+00	1.18E+00	3.30E+00	5.07E+00	1.26E+00	3.74E+04	5.53E+03	2.39E+04	2.62E+04	9.38E+03	6.10E+03	1.78E-11
Cu-64	1.04E+00	2.14E-01	2.14E-01	6.12E-01	9.44E-01	1.26E+00	4.78E+02	3.79E+02	1.85E+03	1.84E+03	6.47E+02	4.19E+02	9.84E-11
Cu-66	5.58E-01	2.37E-01	1.24E-01	3.11E-01	4.81E-01	1.23E+00	7.14E+04	1.09E+05	2.56E+05	4.90E+05	1.94E+05	1.26E+05	1.95E-10
Cu-67	4.87E-01	1.23E-01	1.24E-01	3.39E-01	4.74E-01	1.31E+00	9.81E+01	1.60E+02	6.38E+02	6.29E+02	2.30E+02	1.65E+02	2.13E-10
Dy-155	3.06E+00	6.28E-01	6.23E-01	1.75E+00	2.70E+00	1.29E+00	6.07E+02	1.60E+02	7.82E+02	7.88E+02	2.80E+02	1.81E+02	7.95E-11
Dy-157	1.67E+00	3.89E-01	3.82E-01	1.06E+00	1.57E+00	1.28E+00	7.49E+02	3.65E+02	1.57E+03	1.60E+03	5.76E+02	3.89E+02	1.49E-10
Dy-159	4.46E-02	4.52E-02	2.82E-02	4.38E-02	4.46E-02	1.39E+00	1.75E+00	3.57E+01	3.52E+01	5.65E+01	3.63E+01	3.57E+01	6.28E-09
Dy-165	1.23E-01	8.06E-02	3.13E-02	7.76E-02	1.12E-01	1.33E+00	2.60E+03	1.66E+04	2.53E+04	6.51E+04	2.63E+04	1.81E+04	2.04E-09
Dy-166	7.93E-02	4.10E-02	3.19E-02	6.51E-02	7.76E-02	1.35E+00	7.44E+01	7.25E+02	1.40E+03	1.80E+03	8.83E+02	7.41E+02	3.14E-09
Er-161	5.11E+00	9.98E-01	1.00E+00	2.83E+00	4.44E+00	1.34E+00	1.87E+03	2.85E+02	1.46E+03	1.46E+03	5.14E+02	3.29E+02	4.76E-11
Er-165	4.21E-02	3.78E-02	2.54E-02	4.10E-02	4.21E-02	1.38E+00	5.86E+02	1.05E+04	1.17E+04	1.75E+04	1.08E+04	1.05E+04	5.74E-09
Er-169	1.20E-04	7.88E-05	4.98E-05	1.01E-04	1.20E-04	1.31E+00	2.72E+01	1.80E+05	2.75E+05	4.35E+05	2.14E+05	1.81E+05	2.17E-06
Er-171	1.81E+00	4.49E-01	4.18E-01	1.16E+00	1.70E+00	1.28E+00	8.07E+02	3.64E+02	1.46E+03	1.57E+03	5.68E+02	3.87E+02	1.50E-10
Er-172	2.76E+00	5.79E-01	5.82E-01	1.64E+00	2.50E+00	1.31E+00	1.23E+02	3.55E+01	1.69E+02	1.68E+02	5.98E+01	3.92E+01	9.63E-11
Es-250	2.11E+00	4.26E-01	4.27E-01	1.20E+00	1.86E+00	1.24E+00	2.89E+03	1.15E+03	5.71E+03	5.69E+03	2.02E+03	1.31E+03	1.94E-10
Es-251	3.26E-01	9.79E-02	9.38E-02	2.46E-01	3.25E-01	1.38E+00	1.84E+02	4.26E+02	1.42E+03	1.48E+03	5.65E+02	4.28E+02	1.13E-09
Es-253	1.61E-03	7.74E-04	4.14E-04	1.04E-03	1.50E-03	1.94E+00	1.24E+01	4.13E+03	8.59E+03	1.60E+04	6.41E+03	4.42E+03	1.64E-07

Output generated 06JUL2010:04:50:47

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Resident Building Dose Compliance Concentrations for 3-D Direct External Exposure

Radionuclide	External Exposure DCF (Infinite Volume) (mrem/yr per pCi/g)	External Exposure DCF (Ground Plane) (mrem/yr per pCi/cm^2)	External Exposure DCF (1 cm) (mrem/yr per pCi/g)	External Exposure DCF (5 cm) (mrem/yr per pCi/g)	External Exposure DCF (15 cm) (mrem/yr per pCi/g)	F_{surf}	Lambda	Resident 3-D External BDCC (infinite depth) (pCi/g)	Resident 3-D External BDCC (ground plane) (pCi/cm^2)	Resident 3-D External BDCC (1 cm) (pCi/g)	Resident 3-D External BDCC (5 cm) (pCi/g)	Resident 3-D External BDCC (15 cm) (pCi/g)	Resident 3-D External BDCC (mass) (mg/kg)
Es-254	1.13E-02	1.14E-02	4.16E-03	8.47E-03	1.09E-02	1.95E+00	9.17E-01	7.22E+01	7.17E+01	1.96E+02	9.65E+01	7.49E+01	3.88E-08
Es-254+D	5.26E+00	9.95E-01	9.87E-01	2.83E+00	4.53E+00	1.23E+00	9.17E-01	2.46E-01	1.30E+00	1.31E+00	4.57E-01	2.86E-01	1.32E-10
Es-254+E	5.26E+00	9.97E-01	9.87E-01	2.83E+00	4.53E+00	-	9.17E-01	-	-	-	-	-	-
Es-254m	2.63E+00	5.34E-01	5.24E-01	1.50E+00	2.33E+00	1.73E+00	1.54E+02	3.54E+01	1.74E+02	1.78E+02	6.21E+01	3.99E+01	1.13E-10
Eu-145	8.65E+00	1.56E+00	1.59E+00	4.55E+00	7.31E+00	1.26E+00	4.26E+01	4.07E+00	2.25E+01	2.22E+01	7.75E+00	4.82E+00	2.69E-11
Eu-146	1.45E+01	2.74E+00	2.78E+00	7.96E+00	1.26E+01	1.25E+00	5.49E+01	3.15E+00	1.67E+01	1.65E+01	5.75E+00	3.64E+00	1.63E-11
Eu-147	2.56E+00	5.39E-01	5.30E-01	1.47E+00	2.28E+00	1.25E+00	1.05E+01	3.44E+00	1.63E+01	1.66E+01	5.97E+00	3.86E+00	9.31E-11
Eu-148	1.23E+01	2.40E+00	2.42E+00	6.92E+00	1.09E+01	1.29E+00	4.64E+00	3.07E-01	1.58E+00	1.56E+00	5.48E-01	3.49E-01	1.90E-11
Eu-149	1.83E-01	6.61E-02	5.20E-02	1.23E-01	1.73E-01	1.30E+00	2.72E+00	1.27E+01	3.53E+01	4.49E+01	1.90E+01	1.35E+01	1.36E-09
Eu-150	8.15E+00	1.66E+00	1.66E+00	4.74E+00	7.31E+00	1.27E+00	2.03E-02	1.02E-01	5.01E-01	4.99E-01	1.75E-01	1.13E-01	1.46E-09
Eu-150m	2.46E-01	7.91E-02	5.24E-02	1.45E-01	2.20E-01	1.24E+00	4.81E+02	1.64E+03	5.11E+03	7.72E+03	2.80E+03	1.84E+03	9.94E-10
Eu-152	6.60E+00	1.26E+00	1.26E+00	3.60E+00	5.69E+00	1.30E+00	5.20E-02	1.25E-01	6.53E-01	6.53E-01	2.29E-01	1.45E-01	7.07E-10
Eu-152m	1.66E+00	3.91E-01	3.30E-01	9.23E-01	1.45E+00	1.28E+00	6.51E+02	3.20E+02	1.36E+03	1.61E+03	5.75E+02	3.67E+02	1.45E-10
Eu-154	7.25E+00	1.37E+00	1.37E+00	3.92E+00	6.23E+00	1.32E+00	7.88E-02	1.13E-01	6.02E-01	6.00E-01	2.10E-01	1.32E-01	4.30E-10
Eu-155	1.62E-01	6.24E-02	5.63E-02	1.32E-01	1.62E-01	1.33E+00	1.40E-01	5.20E+00	1.35E+01	1.49E+01	6.38E+00	5.20E+00	1.12E-08
Eu-156	8.21E+00	1.45E+00	1.45E+00	4.20E+00	6.81E+00	1.27E+00	1.67E+01	1.67E+00	9.45E+00	9.44E+00	3.26E+00	2.01E+00	3.03E-11
Eu-157	1.22E+00	3.22E-01	2.78E-01	7.50E-01	1.12E+00	1.27E+00	4.01E+02	2.71E+02	1.02E+03	1.18E+03	4.39E+02	2.94E+02	2.06E-10
Eu-158	6.30E+00	1.26E+00	1.19E+00	3.38E+00	5.37E+00	1.24E+00	7.94E+03	1.06E+03	5.30E+03	5.63E+03	1.98E+03	1.24E+03	4.09E-11
F-18	5.61E+00	1.15E+00	1.16E+00	3.30E+00	5.09E+00	1.26E+00	3.32E+03	4.89E+02	2.40E+03	2.37E+03	8.32E+02	5.39E+02	5.15E-12
Fe-52	3.86E+00	8.30E-01	8.32E-01	2.35E+00	3.56E+00	1.27E+00	7.34E+02	1.56E+02	7.26E+02	7.24E+02	2.56E+02	1.69E+02	2.15E-11
Fe-55	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.57E-01	-	-	-	-	-	-
Fe-59	7.24E+00	1.28E+00	1.31E+00	3.79E+00	6.10E+00	1.23E+00	5.68E+00	6.68E-01	3.76E+00	3.69E+00	1.28E+00	7.92E-01	1.35E-11
Fe-60	9.03E-06	1.37E-05	5.58E-06	8.58E-06	9.03E-06	1.31E+00	6.93E-06	8.82E+04	5.83E+04	1.43E+05	9.28E+04	8.82E+04	1.48E+00
Fe-60+D	2.31E-02	5.12E-03	4.76E-03	1.27E-02	1.96E-02	1.31E+00	6.93E-06	3.44E+01	1.55E+02	1.67E+02	6.26E+01	4.07E+01	5.78E-04
Fe-60+E	2.31E-02	5.12E-03	4.76E-03	1.27E-02	1.96E-02	-	6.93E-06	-	-	-	-	-	-
Fm-252	9.42E-05	6.31E-04	9.25E-05	9.42E-05	9.42E-05	1.96E+00	2.67E+02	1.51E+06	2.25E+05	1.54E+06	1.51E+06	1.51E+06	2.76E-06
Fm-253	2.87E-01	8.33E-02	8.04E-02	2.13E-01	2.83E-01	1.77E+00	8.43E+01	1.73E+02	5.96E+02	6.18E+02	2.34E+02	1.75E+02	1.01E-09
Fm-254	1.88E-04	6.99E-04	1.26E-04	1.70E-04	1.88E-04	1.95E+00	1.87E+03	5.32E+06	1.43E+06	7.94E+06	5.89E+06	5.32E+06	1.40E-06
Fm-255	5.22E-03	7.34E-03	2.31E-03	4.40E-03	5.18E-03	1.94E+00	3.02E+02	3.11E+04	2.22E+04	7.03E+04	3.69E+04	3.14E+04	5.09E-08

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Default

Resident Building Dose Compliance Concentrations for 3-D Direct External Exposure

Radionuclide	External Exposure DCF (Infinite Volume) (mrem/yr per pCi/g)	External Exposure DCF (Ground Plane) (mrem/yr per pCi/cm^2)	External Exposure DCF (1 cm) (mrem/yr per pCi/g)	External Exposure DCF (5 cm) (mrem/yr per pCi/g)	External Exposure DCF (15 cm) (mrem/yr per pCi/g)	F_{surf}	Lambda	Resident 3-D External BDCC (infinite depth) (pCi/g)	Resident 3-D External BDCC (ground plane) (pCi/cm^2)	Resident 3-D External BDCC (1 cm) (pCi/g)	Resident 3-D External BDCC (5 cm) (pCi/g)	Resident 3-D External BDCC (15 cm) (pCi/g)	Resident 3-D External BDCC (mass) (mg/kg)
Fm-257	3.90E-01	1.11E-01	1.06E-01	2.83E-01	3.84E-01	1.35E+00	2.52E+00	5.43E+00	1.91E+01	1.99E+01	7.46E+00	5.50E+00	1.08E-09
Fr-219	1.81E-02	3.85E-03	3.92E-03	1.11E-02	1.67E-02	1.26E+00	1.04E+09	4.77E+10	2.24E+11	2.20E+11	7.78E+10	5.16E+10	1.95E-08
Fr-220	4.14E-02	1.15E-02	1.12E-02	3.00E-02	4.07E-02	2.11E+00	7.98E+05	9.52E+06	3.42E+07	3.51E+07	1.31E+07	9.70E+06	5.10E-09
Fr-220+D	8.99E+00	1.52E+00	1.51E+00	4.38E+00	7.22E+00	1.26E+00	7.98E+05	7.34E+04	4.35E+05	4.38E+05	1.51E+05	9.15E+04	3.93E-11
Fr-220+E	8.99E+00	1.52E+00	1.51E+00	4.38E+00	7.22E+00	-	7.98E+05	-	-	-	-	-	-
Fr-221	1.41E-01	3.31E-02	3.38E-02	9.44E-02	1.36E-01	1.29E+00	7.59E+04	4.35E+05	1.85E+06	1.82E+06	6.50E+05	4.52E+05	2.46E-09
Fr-221+D	1.12E+00	2.81E-01	2.37E-01	6.68E-01	1.01E+00	2.22E+00	7.59E+04	3.17E+04	1.27E+05	1.51E+05	5.34E+04	3.51E+04	1.79E-10
Fr-221+E	1.12E+00	2.81E-01	2.37E-01	6.68E-01	1.01E+00	-	7.59E+04	-	-	-	-	-	-
Fr-222	2.44E-02	1.02E-01	1.47E-02	2.01E-02	2.37E-02	1.31E+00	2.53E+04	8.24E+05	1.97E+05	1.37E+06	1.00E+06	8.50E+05	1.40E-08
Fr-223	1.81E-01	9.06E-02	5.39E-02	1.29E-01	1.72E-01	1.55E+00	1.67E+04	6.21E+04	1.24E+05	2.09E+05	8.74E+04	6.53E+04	1.61E-09
Ga-65	6.38E+00	1.41E+00	1.34E+00	3.77E+00	5.76E+00	1.25E+00	2.40E+04	3.13E+03	1.42E+04	1.50E+04	5.31E+03	3.47E+03	1.65E-11
Ga-66	1.57E+01	2.63E+00	2.67E+00	7.70E+00	1.26E+01	1.23E+00	6.46E+02	3.48E+01	2.09E+02	2.05E+02	7.11E+01	4.33E+01	6.91E-12
Ga-67	6.81E-01	1.65E-01	1.67E-01	4.57E-01	6.51E-01	1.29E+00	7.76E+01	9.21E+01	3.81E+02	3.77E+02	1.37E+02	9.63E+01	1.54E-10
Ga-68	5.26E+00	1.17E+00	1.09E+00	3.10E+00	4.76E+00	1.26E+00	5.36E+03	8.43E+02	3.80E+03	4.06E+03	1.43E+03	9.32E+02	2.08E-11
Ga-70	6.21E-02	9.90E-02	1.92E-02	3.88E-02	5.56E-02	1.24E+00	1.72E+04	2.33E+05	1.46E+05	7.54E+05	3.73E+05	2.61E+05	1.84E-09
Ga-72	1.69E+01	2.89E+00	2.95E+00	8.54E+00	1.39E+01	1.25E+00	4.31E+02	2.12E+01	1.24E+02	1.22E+02	4.21E+01	2.58E+01	6.89E-12
Ga-73	1.58E+00	3.91E-01	3.51E-01	9.90E-01	1.48E+00	2.00E+00	1.24E+03	4.07E+02	1.65E+03	1.84E+03	6.51E+02	4.35E+02	4.66E-11
Gd-145	1.40E+01	2.44E+00	2.46E+00	7.09E+00	1.15E+01	1.20E+00	1.59E+04	9.87E+02	5.67E+03	5.61E+03	1.95E+03	1.20E+03	1.75E-11
Gd-146	7.18E-01	2.59E-01	2.26E-01	5.46E-01	7.11E-01	1.34E+00	5.24E+00	5.71E+00	1.58E+01	1.82E+01	7.50E+00	5.77E+00	3.09E-10
Gd-147	7.37E+00	1.46E+00	1.47E+00	4.20E+00	6.51E+00	1.29E+00	1.59E+02	1.75E+01	8.83E+01	8.74E+01	3.07E+01	1.98E+01	3.13E-11
Gd-148	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.45E-03	-	-	-	-	-	-
Gd-149	2.00E+00	4.57E-01	4.46E-01	1.23E+00	1.84E+00	1.26E+00	2.69E+01	1.12E+01	4.87E+01	5.00E+01	1.81E+01	1.21E+01	1.20E-10
Gd-151	1.55E-01	6.50E-02	5.02E-02	1.13E-01	1.51E-01	1.31E+00	2.11E+00	1.23E+01	2.94E+01	3.81E+01	1.68E+01	1.27E+01	1.71E-09
Gd-152	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.42E-15	-	-	-	-	-	-
Gd-153	2.13E-01	1.08E-01	8.37E-02	1.78E-01	2.13E-01	1.35E+00	1.05E+00	5.86E+00	1.16E+01	1.49E+01	7.00E+00	5.86E+00	1.66E-09
Gd-159	2.20E-01	7.56E-02	5.28E-02	1.40E-01	2.07E-01	1.27E+00	3.27E+02	1.22E+03	3.55E+03	5.09E+03	1.91E+03	1.30E+03	1.15E-09
Ge-66	3.60E+00	7.59E-01	7.59E-01	2.14E+00	3.28E+00	1.29E+00	2.67E+03	6.01E+02	2.85E+03	2.85E+03	1.01E+03	6.59E+02	2.88E-11
Ge-67	7.85E+00	1.70E+00	1.62E+00	4.55E+00	7.01E+00	1.23E+00	1.95E+04	2.10E+03	9.69E+03	1.02E+04	3.63E+03	2.36E+03	1.40E-11
Ge-68	1.29E-06	4.78E-05	1.29E-06	1.29E-06	1.29E-06	5.41E+00	8.78E-01	2.24E+05	6.05E+03	2.24E+05	2.24E+05	2.24E+05	3.36E-05

Output generated 06JUL2010:04:50:47

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Resident Building Dose Compliance Concentrations for 3-D Direct External Exposure

Radionuclide	External Exposure DCF (Infinite Volume) (mrem/yr per pCi/g)	External Exposure DCF (Ground Plane) (mrem/yr per pCi/cm^2)	External Exposure DCF (1 cm) (mrem/yr per pCi/g)	External Exposure DCF (5 cm) (mrem/yr per pCi/g)	External Exposure DCF (15 cm) (mrem/yr per pCi/g)	F_{surf}	Lambda	Resident 3-D External BDCC (infinite depth) (pCi/g)	Resident 3-D External BDCC (ground plane) (pCi/cm^2)	Resident 3-D External BDCC (1 cm) (pCi/g)	Resident 3-D External BDCC (5 cm) (pCi/g)	Resident 3-D External BDCC (15 cm) (pCi/g)	Resident 3-D External BDCC (mass) (mg/kg)
Ge-68+D	5.26E+00	1.17E+00	1.09E+00	3.10E+00	4.76E+00	1.26E+00	8.78E-01	2.36E-01	1.07E+00	1.14E+00	4.02E-01	2.62E-01	3.55E-11
Ge-68+E	5.26E+00	1.17E+00	1.09E+00	3.10E+00	4.76E+00	-	8.78E-01	-	-	-	-	-	-
Ge-69	5.02E+00	9.79E-01	9.77E-01	2.80E+00	4.40E+00	1.23E+00	1.55E+02	2.63E+01	1.35E+02	1.35E+02	4.71E+01	2.99E+01	2.26E-11
Ge-71	1.31E-06	4.84E-05	1.31E-06	1.31E-06	1.31E-06	5.41E+00	2.14E+01	3.16E+06	8.53E+04	3.16E+06	3.16E+06	3.16E+06	2.03E-05
Ge-75	1.76E-01	8.40E-02	4.18E-02	1.14E-01	1.67E-01	1.28E+00	4.40E+03	2.04E+04	4.27E+04	8.58E+04	3.15E+04	2.15E+04	6.73E-10
Ge-77	6.06E+00	1.27E+00	1.22E+00	3.49E+00	5.39E+00	1.27E+00	5.37E+02	7.28E+01	3.47E+02	3.61E+02	1.26E+02	8.18E+01	2.02E-11
Ge-78	1.40E+00	3.12E-01	3.11E-01	8.90E-01	1.32E+00	1.28E+00	4.19E+03	2.45E+03	1.09E+04	1.10E+04	3.83E+03	2.58E+03	8.84E-11
H-3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.61E-02	-	-	-	-	-	-
Hf-170	2.57E+00	5.96E-01	5.86E-01	1.60E+00	2.37E+00	1.35E+00	3.79E+02	1.14E+02	4.91E+02	5.00E+02	1.83E+02	1.24E+02	9.90E-11
Hf-172	2.14E-01	1.16E-01	9.19E-02	1.87E-01	2.14E-01	1.35E+00	3.71E-01	4.31E+00	7.99E+00	1.01E+01	4.96E+00	4.31E+00	3.88E-09
Hf-173	1.71E+00	4.35E-01	4.27E-01	1.14E+00	1.62E+00	1.29E+00	2.53E+02	1.20E+02	4.70E+02	4.79E+02	1.79E+02	1.26E+02	1.59E-10
Hf-175	1.72E+00	4.03E-01	3.97E-01	1.09E+00	1.61E+00	1.27E+00	3.61E+00	1.78E+00	7.57E+00	7.68E+00	2.80E+00	1.89E+00	1.67E-10
Hf-177m	1.09E+01	2.45E+00	2.48E+00	6.92E+00	1.02E+01	1.30E+00	7.09E+03	5.24E+02	2.32E+03	2.29E+03	8.22E+02	5.57E+02	2.54E-11
Hf-178m	1.21E+01	2.59E+00	2.63E+00	7.40E+00	1.12E+01	1.26E+00	2.24E-02	6.93E-02	3.23E-01	3.18E-01	1.13E-01	7.50E-02	1.07E-09
Hf-179m	4.33E+00	9.83E-01	9.85E-01	2.74E+00	4.05E+00	1.27E+00	1.01E+01	1.91E+00	8.42E+00	8.40E+00	3.02E+00	2.04E+00	6.59E-11
Hf-180m	4.98E+00	1.10E+00	1.11E+00	3.11E+00	4.63E+00	1.27E+00	1.10E+03	1.82E+02	8.21E+02	8.15E+02	2.91E+02	1.96E+02	5.76E-11
Hf-181	2.82E+00	6.13E-01	6.17E-01	1.73E+00	2.61E+00	1.27E+00	5.97E+00	1.74E+00	8.02E+00	7.96E+00	2.83E+00	1.88E+00	1.03E-10
Hf-182	1.15E+00	2.60E-01	2.65E-01	7.46E-01	1.09E+00	1.29E+00	7.70E-08	7.03E-01	3.11E+00	3.05E+00	1.08E+00	7.38E-01	3.22E-03
Hf-182+D	-	-	-	-	-	1.25E+00	7.70E-08	-	-	-	-	-	-
Hf-182+E	8.65E+00	1.66E+00	1.68E+00	4.77E+00	7.50E+00	-	7.70E-08	-	-	-	-	-	-
Hf-182m	4.81E+00	1.02E+00	1.03E+00	2.89E+00	4.36E+00	1.34E+00	5.92E+03	9.58E+02	4.50E+03	4.49E+03	1.59E+03	1.06E+03	5.71E-11
Hf-183	4.14E+00	8.78E-01	8.37E-01	2.37E+00	3.67E+00	1.25E+00	5.69E+03	1.15E+03	5.41E+03	5.67E+03	2.00E+03	1.29E+03	7.16E-11
Hf-184	1.10E+00	2.87E-01	2.65E-01	7.27E-01	1.05E+00	1.28E+00	1.47E+03	1.09E+03	4.18E+03	4.53E+03	1.65E+03	1.15E+03	2.65E-10
Hg-193	7.09E-01	2.10E-01	2.00E-01	5.07E-01	6.84E-01	1.63E+00	1.73E+03	1.57E+03	5.28E+03	5.56E+03	2.19E+03	1.62E+03	3.38E-10
Hg-193m	5.67E+00	1.13E+00	1.14E+00	3.23E+00	5.00E+00	2.02E+00	5.47E+02	4.98E+01	2.50E+02	2.47E+02	8.75E+01	5.65E+01	3.41E-11
Hg-194	1.06E-05	2.61E-04	1.06E-05	1.06E-05	1.06E-05	3.90E+00	2.67E-03	2.51E+04	1.02E+03	2.51E+04	2.51E+04	2.51E+04	3.55E-03
Hg-194+D	6.15E+00	1.13E+00	1.16E+00	3.30E+00	5.24E+00	1.77E+00	2.67E-03	9.59E-02	5.20E-01	5.10E-01	1.79E-01	1.13E-01	1.35E-08
Hg-194+E	6.15E+00	1.13E+00	1.16E+00	3.30E+00	5.24E+00	-	2.67E-03	-	-	-	-	-	-
Hg-195	9.23E-01	2.16E-01	2.09E-01	5.60E-01	8.26E-01	1.85E+00	6.13E+02	3.74E+02	1.60E+03	1.65E+03	6.18E+02	4.18E+02	2.31E-10

Output generated 06JUL2010:04:50:47

Default

Resident Building Dose Compliance Concentrations for 3-D Direct External Exposure

Radionuclide	External Exposure DCF (Infinite Volume) (mrem/yr per pCi/g)	External Exposure DCF (Ground Plane) (mrem/yr per pCi/cm^2)	External Exposure DCF (1 cm) (mrem/yr per pCi/g)	External Exposure DCF (5 cm) (mrem/yr per pCi/g)	External Exposure DCF (15 cm) (mrem/yr per pCi/g)	F_{surf}	Lambda	Resident 3-D External BDCC (infinite depth) (pCi/g)	Resident 3-D External BDCC (ground plane) (pCi/cm^2)	Resident 3-D External BDCC (1 cm) (pCi/g)	Resident 3-D External BDCC (5 cm) (pCi/g)	Resident 3-D External BDCC (15 cm) (pCi/g)	Resident 3-D External BDCC (mass) (mg/kg)
Hg-195m	9.70E-01	2.25E-01	2.24E-01	6.14E-01	9.01E-01	3.23E+00	1.46E+02	4.86E+01	2.09E+02	2.11E+02	7.68E+01	5.23E+01	1.26E-10
Hg-197	1.50E-01	6.76E-02	5.99E-02	1.31E-01	1.50E-01	2.23E+00	9.47E+01	2.96E+02	6.55E+02	7.40E+02	3.39E+02	2.96E+02	1.19E-09
Hg-197m	3.19E-01	9.48E-02	9.23E-02	2.37E-01	3.13E-01	2.20E+00	2.55E+02	3.79E+02	1.28E+03	1.31E+03	5.10E+02	3.86E+02	5.68E-10
Hg-199m	7.35E-01	1.95E-01	1.92E-01	5.11E-01	7.09E-01	1.48E+00	8.55E+03	8.20E+03	3.09E+04	3.14E+04	1.18E+04	8.50E+03	3.70E-10
Hg-203	1.17E+00	2.59E-01	2.65E-01	7.48E-01	1.10E+00	1.28E+00	5.43E+00	3.81E+00	1.71E+01	1.68E+01	5.94E+00	4.02E+00	2.77E-10
Ho-155	1.92E+00	4.54E-01	4.21E-01	1.17E+00	1.76E+00	1.31E+00	7.59E+03	3.14E+03	1.33E+04	1.43E+04	5.18E+03	3.44E+03	1.25E-10
Ho-157	2.33E+00	5.38E-01	5.17E-01	1.41E+00	2.11E+00	1.30E+00	2.89E+04	9.95E+03	4.31E+04	4.49E+04	1.64E+04	1.10E+04	1.05E-10
Ho-159	1.47E+00	3.90E-01	3.69E-01	9.68E-01	1.38E+00	1.31E+00	1.10E+04	5.99E+03	2.25E+04	2.38E+04	9.08E+03	6.38E+03	1.67E-10
Ho-161	7.50E-02	6.00E-02	3.92E-02	6.84E-02	7.48E-02	1.39E+00	2.43E+03	2.43E+04	3.04E+04	4.65E+04	2.66E+04	2.44E+04	3.13E-09
Ho-162	7.57E-01	1.81E-01	1.65E-01	4.36E-01	6.62E-01	1.25E+00	2.43E+04	2.68E+04	1.12E+05	1.23E+05	4.64E+04	3.06E+04	3.46E-10
Ho-162m	3.08E+00	6.19E-01	6.12E-01	1.71E+00	2.67E+00	1.30E+00	5.36E+03	1.40E+03	6.95E+03	7.02E+03	2.51E+03	1.61E+03	8.19E-11
Ho-164	3.80E-02	3.94E-02	2.09E-02	3.58E-02	3.80E-02	1.36E+00	1.26E+04	2.53E+05	2.44E+05	4.61E+05	2.69E+05	2.53E+05	6.41E-09
Ho-164m	5.02E-02	4.55E-02	3.00E-02	4.87E-02	5.02E-02	1.38E+00	9.71E+03	1.46E+05	1.61E+05	2.44E+05	1.51E+05	1.46E+05	4.79E-09
Ho-166	1.56E-01	1.23E-01	4.10E-02	9.27E-02	1.35E-01	1.26E+00	2.27E+02	1.20E+03	1.53E+03	4.57E+03	2.02E+03	1.39E+03	1.71E-09
Ho-166m	9.64E+00	1.93E+00	1.94E+00	5.56E+00	8.60E+00	1.27E+00	5.78E-04	8.52E-02	4.27E-01	4.23E-01	1.48E-01	9.55E-02	4.75E-08
Ho-167	1.83E+00	4.10E-01	4.07E-01	1.15E+00	1.71E+00	1.27E+00	1.96E+03	8.77E+02	3.93E+03	3.96E+03	1.40E+03	9.38E+02	1.45E-10
I-120	1.66E+01	3.06E+00	3.02E+00	8.67E+00	1.39E+01	1.26E+00	4.50E+03	2.24E+02	1.22E+03	1.23E+03	4.29E+02	2.67E+02	1.16E-11
I-120m	3.17E+01	5.85E+00	5.87E+00	1.69E+01	2.70E+01	1.24E+00	6.87E+03	1.82E+02	9.89E+02	9.84E+02	3.42E+02	2.14E+02	6.18E-12
I-121	2.07E+00	4.62E-01	4.51E-01	1.28E+00	1.92E+00	1.26E+00	2.86E+03	1.14E+03	5.13E+03	5.25E+03	1.86E+03	1.23E+03	9.39E-11
I-122	5.28E+00	1.19E+00	1.10E+00	3.10E+00	4.76E+00	1.25E+00	1.01E+05	1.59E+04	7.05E+04	7.64E+04	2.71E+04	1.77E+04	3.74E-11
I-123	6.51E-01	1.79E-01	1.67E-01	4.49E-01	6.30E-01	1.40E+00	4.60E+02	5.26E+02	1.92E+03	2.05E+03	7.62E+02	5.43E+02	2.73E-10
I-124	6.38E+00	1.21E+00	1.21E+00	3.47E+00	5.50E+00	1.25E+00	6.05E+01	7.92E+00	4.16E+01	4.18E+01	1.46E+01	9.18E+00	3.15E-11
I-125	1.19E-02	3.66E-02	1.10E-02	1.19E-02	1.19E-02	1.51E+00	4.21E+00	2.49E+02	8.05E+01	2.69E+02	2.49E+02	2.49E+02	1.43E-08
I-126	2.46E+00	5.16E-01	5.05E-01	1.44E+00	2.22E+00	1.25E+00	1.94E+01	6.58E+00	3.14E+01	3.21E+01	1.13E+01	7.30E+00	8.29E-11
I-128	4.81E-01	2.00E-01	1.11E-01	2.93E-01	4.40E-01	1.26E+00	1.46E+04	2.51E+04	6.05E+04	1.09E+05	4.12E+04	2.74E+04	4.27E-10
I-129	9.53E-03	2.28E-02	8.21E-03	9.53E-03	9.53E-03	1.46E+00	4.41E-08	7.50E+01	3.14E+01	8.70E+01	7.50E+01	7.50E+01	4.25E-01
I-130	1.21E+01	2.39E+00	2.41E+00	6.90E+00	1.08E+01	1.25E+00	4.91E+02	3.38E+01	1.71E+02	1.70E+02	5.94E+01	3.80E+01	1.74E-11
I-131	2.01E+00	4.25E-01	4.31E-01	1.22E+00	1.85E+00	1.27E+00	3.15E+01	1.28E+01	6.08E+01	6.00E+01	2.11E+01	1.39E+01	1.04E-10
I-132	1.32E+01	2.57E+00	2.56E+00	7.35E+00	1.16E+01	1.27E+00	2.64E+03	1.64E+02	8.44E+02	8.48E+02	2.95E+02	1.87E+02	1.59E-11

Output generated 06JUL2010:04:50:47

Default

Resident Building Dose Compliance Concentrations for 3-D Direct External Exposure

Radionuclide	External Exposure DCF (Infinite Volume) (mrem/yr per pCi/g)	External Exposure DCF (Ground Plane) (mrem/yr per pCi/cm^2)	External Exposure DCF (1 cm) (mrem/yr per pCi/g)	External Exposure DCF (5 cm) (mrem/yr per pCi/g)	External Exposure DCF (15 cm) (mrem/yr per pCi/g)	F_{surf}	Lambda	Resident 3-D External BDCC (infinite depth) (pCi/g)	Resident 3-D External BDCC (ground plane) (pCi/cm^2)	Resident 3-D External BDCC (1 cm) (pCi/g)	Resident 3-D External BDCC (5 cm) (pCi/g)	Resident 3-D External BDCC (15 cm) (pCi/g)	Resident 3-D External BDCC (mass) (mg/kg)
I-132m	1.75E+00	3.63E-01	3.54E-01	1.01E+00	1.56E+00	1.25E+00	4.36E+03	2.08E+03	1.00E+04	1.03E+04	3.61E+03	2.33E+03	1.22E-10
I-133	3.41E+00	7.20E-01	6.88E-01	1.96E+00	3.04E+00	1.26E+00	2.92E+02	7.08E+01	3.35E+02	3.51E+02	1.23E+02	7.95E+01	6.26E-11
I-134	1.55E+01	2.95E+00	2.93E+00	8.43E+00	1.34E+01	1.26E+00	6.92E+03	3.70E+02	1.94E+03	1.96E+03	6.80E+02	4.29E+02	1.39E-11
I-135	9.72E+00	1.72E+00	1.73E+00	5.00E+00	8.11E+00	1.27E+00	9.18E+02	7.76E+01	4.40E+02	4.37E+02	1.51E+02	9.30E+01	2.21E-11
In-109	3.62E+00	7.28E-01	7.29E-01	2.09E+00	3.23E+00	1.26E+00	1.45E+03	3.31E+02	1.64E+03	1.64E+03	5.73E+02	3.71E+02	4.84E-11
In-110	1.76E+01	3.36E+00	3.39E+00	9.75E+00	1.54E+01	1.24E+00	1.24E+03	5.92E+01	3.10E+02	3.07E+02	1.07E+02	6.77E+01	1.02E-11
In-110m	8.95E+00	1.79E+00	1.75E+00	4.98E+00	7.83E+00	1.42E+00	5.27E+03	4.32E+02	2.17E+03	2.22E+03	7.77E+02	4.94E+02	1.75E-11
In-111	1.81E+00	4.29E-01	4.29E-01	1.20E+00	1.74E+00	1.39E+00	8.94E+01	3.71E+01	1.56E+02	1.56E+02	5.57E+01	3.86E+01	8.94E-11
In-112	1.45E+00	3.20E-01	3.00E-01	8.50E-01	1.31E+00	1.33E+00	2.53E+04	1.37E+04	6.20E+04	6.61E+04	2.33E+04	1.51E+04	1.18E-10
In-113m	1.33E+00	2.84E-01	2.85E-01	8.13E-01	1.23E+00	1.54E+00	3.66E+03	1.86E+03	8.74E+03	8.69E+03	3.05E+03	2.01E+03	1.12E-10
In-114	1.68E-02	3.22E-03	3.04E-03	8.73E-03	1.41E-02	1.26E+00	3.04E+05	1.50E+07	7.81E+07	8.28E+07	2.88E+07	1.79E+07	1.09E-08
In-114m	4.51E-01	1.01E-01	9.70E-02	2.72E-01	4.12E-01	1.36E+00	5.11E+00	8.73E+00	3.91E+01	4.06E+01	1.45E+01	9.56E+00	3.78E-10
In-114m+D	4.68E-01	1.04E-01	1.00E-01	2.80E-01	4.25E-01	-	5.11E+00	-	-	-	-	-	-
In-114m+E	4.68E-01	1.04E-01	1.00E-01	2.80E-01	4.25E-01	-	5.11E+00	-	-	-	-	-	-
In-115	3.54E-04	4.17E-04	1.30E-04	2.83E-04	3.51E-04	1.25E+00	1.36E-16	2.88E+03	2.45E+03	7.86E+03	3.60E+03	2.91E+03	4.73E+09
In-115m	7.93E-01	1.76E-01	1.74E-01	4.94E-01	7.40E-01	1.31E+00	1.35E+03	1.36E+03	6.11E+03	6.19E+03	2.18E+03	1.45E+03	2.24E-10
In-116m	1.52E+01	2.66E+00	2.70E+00	7.85E+00	1.27E+01	1.23E+00	6.73E+03	3.76E+02	2.14E+03	2.11E+03	7.26E+02	4.49E+02	1.26E-11
In-117	3.64E+00	7.75E-01	7.76E-01	2.20E+00	3.34E+00	1.26E+00	8.32E+03	1.89E+03	8.88E+03	8.87E+03	3.13E+03	2.06E+03	5.17E-11
In-117m	4.29E-01	1.46E-01	1.02E-01	2.80E-01	4.07E-01	1.30E+00	3.13E+03	5.85E+03	1.72E+04	2.45E+04	8.97E+03	6.17E+03	4.25E-10
In-119	4.42E+00	9.36E-01	8.71E-01	2.48E+00	3.90E+00	1.24E+00	1.52E+05	2.89E+04	1.36E+05	1.47E+05	5.15E+04	3.27E+04	4.39E-11
In-119m	9.03E-02	1.52E-01	3.73E-02	6.30E-02	8.37E-02	1.36E+00	2.02E+04	1.72E+05	1.02E+05	4.16E+05	2.46E+05	1.85E+05	1.96E-09
Ir-182	7.35E+00	1.56E+00	1.52E+00	4.27E+00	6.56E+00	1.38E+00	2.43E+04	2.50E+03	1.17E+04	1.21E+04	4.30E+03	2.80E+03	3.63E-11
Ir-184	1.08E+01	2.08E+00	2.09E+00	5.97E+00	9.36E+00	1.59E+00	2.01E+03	1.22E+02	6.35E+02	6.31E+02	2.21E+02	1.41E+02	2.16E-11
Ir-185	3.34E+00	6.22E-01	6.25E-01	1.76E+00	2.80E+00	1.65E+00	4.34E+02	8.21E+01	4.41E+02	4.39E+02	1.56E+02	9.80E+01	6.80E-11
Ir-186	9.25E+00	1.76E+00	1.79E+00	5.11E+00	8.00E+00	1.65E+00	3.84E+02	2.63E+01	1.38E+02	1.35E+02	4.75E+01	3.04E+01	2.47E-11
Ir-186m	5.28E+00	1.07E+00	1.06E+00	3.00E+00	4.64E+00	1.25E+00	3.47E+03	5.48E+02	2.71E+03	2.73E+03	9.64E+02	6.23E+02	5.70E-11
Ir-187	1.79E+00	3.93E-01	3.88E-01	1.06E+00	1.60E+00	1.97E+00	5.78E+02	1.71E+02	7.78E+02	7.89E+02	2.88E+02	1.91E+02	1.07E-10
Ir-188	9.55E+00	1.66E+00	1.70E+00	4.89E+00	7.89E+00	1.30E+00	1.46E+02	1.23E+01	7.08E+01	6.91E+01	2.40E+01	1.49E+01	3.06E-11
Ir-189	2.18E-01	8.16E-02	7.31E-02	1.70E-01	2.14E-01	1.65E+00	1.90E+01	5.51E+01	1.47E+02	1.64E+02	7.09E+01	5.60E+01	1.06E-09

Output generated 06JUL2010:04:50:47

Default

Resident Building Dose Compliance Concentrations for 3-D Direct External Exposure

Radionuclide	External Exposure DCF (Infinite Volume) (mrem/yr per pCi/g)	External Exposure DCF (Ground Plane) (mrem/yr per pCi/cm^2)	External Exposure DCF (1 cm) (mrem/yr per pCi/g)	External Exposure DCF (5 cm) (mrem/yr per pCi/g)	External Exposure DCF (15 cm) (mrem/yr per pCi/g)	F_{surf}	Lambda	Resident 3-D External BDCC (infinite depth) (pCi/g)	Resident 3-D External BDCC (ground plane) (pCi/cm^2)	Resident 3-D External BDCC (1 cm) (pCi/g)	Resident 3-D External BDCC (5 cm) (pCi/g)	Resident 3-D External BDCC (15 cm) (pCi/g)	Resident 3-D External BDCC (mass) (mg/kg)
Ir-190	7.53E+00	1.59E+00	1.60E+00	4.51E+00	6.86E+00	1.34E+00	2.09E+01	2.16E+00	1.03E+01	1.02E+01	3.60E+00	2.37E+00	3.81E-11
Ir-190m	2.05E-06	6.21E-05	2.05E-06	2.05E-06	2.05E-06	4.67E+00	5.06E+03	5.51E+08	1.82E+07	5.51E+08	5.51E+08	5.51E+08	4.01E-05
Ir-190n	8.15E+00	1.72E+00	1.73E+00	4.90E+00	7.46E+00	1.62E+00	1.96E+03	1.55E+02	7.35E+02	7.28E+02	2.57E+02	1.69E+02	2.91E-11
Ir-191m	2.05E-01	7.39E-02	6.86E-02	1.63E-01	2.03E-01	1.66E+00	4.42E+06	1.35E+07	3.76E+07	4.05E+07	1.70E+07	1.37E+07	1.13E-09
Ir-192	4.27E+00	9.07E-01	9.19E-01	2.63E+00	3.95E+00	1.70E+00	3.42E+00	5.07E-01	2.39E+00	2.36E+00	8.24E-01	5.48E-01	5.53E-11
Ir-192m	6.86E-01	1.72E-01	1.75E-01	4.81E-01	6.71E-01	1.31E+00	2.88E-03	1.16E+00	4.65E+00	4.56E+00	1.66E+00	1.19E+00	1.50E-07
Ir-194	5.24E-01	2.11E-01	1.19E-01	3.13E-01	4.74E-01	1.27E+00	3.17E+02	4.97E+02	1.23E+03	2.18E+03	8.31E+02	5.50E+02	5.90E-10
Ir-194m	1.27E+01	2.60E+00	2.63E+00	7.52E+00	1.15E+01	1.26E+00	1.48E+00	1.25E-01	6.09E-01	6.03E-01	2.11E-01	1.37E-01	3.17E-11
Ir-195	1.46E-01	8.60E-02	5.37E-02	1.21E-01	1.45E-01	1.88E+00	2.43E+03	9.21E+03	1.57E+04	2.51E+04	1.11E+04	9.28E+03	1.44E-09
Ir-195m	2.00E+00	4.64E-01	4.51E-01	1.24E+00	1.84E+00	3.69E+00	1.60E+03	2.26E+02	9.72E+02	1.00E+03	3.63E+02	2.46E+02	5.36E-11
K-38	2.00E+01	3.47E+00	3.47E+00	1.00E+01	1.64E+01	1.23E+00	4.77E+04	2.03E+03	1.17E+04	1.17E+04	4.03E+03	2.47E+03	3.13E-12
K-40	9.94E-01	2.38E-01	1.77E-01	5.04E-01	8.21E-01	1.22E+00	5.41E-10	8.60E-01	3.59E+00	4.82E+00	1.70E+00	1.04E+00	1.23E-01
K-42	1.84E+00	4.64E-01	3.49E-01	9.42E-01	1.52E+00	1.21E+00	4.91E+02	2.31E+02	9.11E+02	1.21E+03	4.49E+02	2.79E+02	3.83E-11
K-43	5.32E+00	1.10E+00	1.10E+00	3.13E+00	4.83E+00	1.26E+00	2.69E+02	4.18E+01	2.02E+02	2.02E+02	7.10E+01	4.60E+01	1.30E-11
K-44	1.47E+01	2.47E+00	2.46E+00	7.11E+00	1.17E+01	1.19E+00	1.65E+04	9.80E+02	5.83E+03	5.86E+03	2.03E+03	1.23E+03	5.08E-12
K-45	1.18E+01	2.05E+00	2.01E+00	5.86E+00	9.59E+00	1.22E+00	1.82E+04	1.32E+03	7.58E+03	7.73E+03	2.66E+03	1.62E+03	6.31E-12
Kr-74	6.19E+00	1.40E+00	1.33E+00	3.73E+00	5.67E+00	1.29E+00	3.17E+04	4.14E+03	1.83E+04	1.93E+04	6.86E+03	4.52E+03	1.87E-11
Kr-76	2.18E+00	4.70E-01	4.76E-01	1.35E+00	2.03E+00	2.69E+00	4.10E+02	7.29E+01	3.38E+02	3.34E+02	1.18E+02	7.82E+01	2.62E-11
Kr-77	5.32E+00	1.21E+00	1.15E+00	3.25E+00	4.89E+00	1.25E+00	4.88E+03	7.65E+02	3.35E+03	3.54E+03	1.25E+03	8.33E+02	2.35E-11
Kr-79	1.36E+00	2.79E-01	2.83E-01	8.08E-01	1.24E+00	1.34E+00	1.73E+02	9.93E+01	4.83E+02	4.76E+02	1.67E+02	1.09E+02	8.79E-11
Kr-81	2.76E-02	6.99E-03	6.23E-03	1.77E-02	2.63E-02	3.97E+00	3.30E-06	9.52E+00	3.76E+01	4.22E+01	1.49E+01	9.99E+00	4.53E-04
Kr-81m	5.84E-01	1.38E-01	1.41E-01	3.95E-01	5.65E-01	2.58E+00	1.68E+06	1.16E+06	4.93E+06	4.81E+06	1.72E+06	1.20E+06	1.09E-10
Kr-83m	2.52E-05	4.17E-04	2.44E-05	2.52E-05	2.52E-05	3.54E+00	3.32E+03	3.88E+07	2.35E+06	4.00E+07	3.88E+07	3.88E+07	1.88E-06
Kr-85	1.35E-02	1.23E-02	3.08E-03	8.21E-03	1.23E-02	1.26E+00	6.46E-02	6.34E+01	6.98E+01	2.78E+02	1.04E+02	6.93E+01	1.62E-07
Kr-85m	6.96E-01	1.83E-01	1.73E-01	4.77E-01	6.73E-01	1.31E+00	1.36E+03	1.55E+03	5.89E+03	6.24E+03	2.26E+03	1.60E+03	1.89E-10
Kr-87	5.02E+00	9.80E-01	8.95E-01	2.54E+00	4.12E+00	1.24E+00	4.77E+03	8.00E+02	4.10E+03	4.48E+03	1.58E+03	9.74E+02	2.83E-11
Kr-88	1.26E+01	2.02E+00	2.07E+00	6.06E+00	1.01E+01	1.33E+00	2.14E+03	1.33E+02	8.30E+02	8.10E+02	2.77E+02	1.67E+02	1.06E-11
La-131	3.47E+00	7.64E-01	7.39E-01	2.07E+00	3.17E+00	1.27E+00	6.17E+03	1.46E+03	6.63E+03	6.86E+03	2.45E+03	1.60E+03	6.02E-11
La-132	1.19E+01	2.22E+00	2.22E+00	6.36E+00	1.01E+01	1.26E+00	1.26E+03	8.80E+01	4.72E+02	4.72E+02	1.65E+02	1.03E+02	1.78E-11

Output generated 06JUL2010:04:50:47

Default

Resident Building Dose Compliance Concentrations for 3-D Direct External Exposure

Radionuclide	External Exposure DCF (Infinite Volume) (mrem/yr per pCi/g)	External Exposure DCF (Ground Plane) (mrem/yr per pCi/cm^2)	External Exposure DCF (1 cm) (mrem/yr per pCi/g)	External Exposure DCF (5 cm) (mrem/yr per pCi/g)	External Exposure DCF (15 cm) (mrem/yr per pCi/g)	F_{surf}	Lambda	Resident 3-D External BDCC (infinite depth) (pCi/g)	Resident 3-D External BDCC (ground plane) (pCi/cm^2)	Resident 3-D External BDCC (1 cm) (pCi/g)	Resident 3-D External BDCC (5 cm) (pCi/g)	Resident 3-D External BDCC (15 cm) (pCi/g)	Resident 3-D External BDCC (mass) (mg/kg)
La-134	3.84E+00	8.75E-01	8.02E-01	2.26E+00	3.47E+00	1.26E+00	5.46E+04	1.18E+04	5.16E+04	5.64E+04	2.00E+04	1.30E+04	5.60E-11
La-135	6.77E-02	3.55E-02	2.09E-02	4.42E-02	6.21E-02	1.36E+00	3.11E+02	3.53E+03	6.73E+03	1.14E+04	5.40E+03	3.84E+03	2.97E-09
La-137	1.04E-02	2.29E-02	8.82E-03	1.04E-02	1.04E-02	1.46E+00	1.16E-05	6.85E+01	3.12E+01	8.10E+01	6.85E+01	6.85E+01	1.58E-03
La-138	7.53E+00	1.32E+00	1.34E+00	3.90E+00	6.30E+00	1.23E+00	5.13E-12	1.13E-01	6.43E-01	6.31E-01	2.18E-01	1.35E-01	5.87E+00
La-140	1.43E+01	2.52E+00	2.54E+00	7.33E+00	1.19E+01	1.25E+00	1.51E+02	8.81E+00	4.99E+01	4.96E+01	1.72E+01	1.06E+01	1.59E-11
La-141	3.10E-01	1.77E-01	7.11E-02	1.70E-01	2.61E-01	1.22E+00	1.54E+03	4.27E+03	7.44E+03	1.86E+04	7.79E+03	5.06E+03	7.55E-10
La-142	1.78E+01	2.91E+00	2.93E+00	8.56E+00	1.42E+01	1.26E+00	3.94E+03	1.83E+02	1.12E+03	1.11E+03	3.81E+02	2.30E+02	1.28E-11
La-143	6.64E-01	2.65E-01	1.45E-01	3.58E-01	5.58E-01	1.24E+00	2.56E+04	3.24E+04	8.13E+04	1.48E+05	6.01E+04	3.86E+04	3.51E-10
Lu-169	5.89E+00	1.12E+00	1.12E+00	3.17E+00	5.02E+00	1.30E+00	1.78E+02	2.43E+01	1.28E+02	1.28E+02	4.51E+01	2.85E+01	4.46E-11
Lu-170	1.56E+01	2.56E+00	2.63E+00	7.65E+00	1.26E+01	1.33E+00	1.26E+02	6.35E+00	3.88E+01	3.77E+01	1.30E+01	7.89E+00	1.66E-11
Lu-171	3.62E+00	7.63E-01	7.50E-01	2.09E+00	3.21E+00	1.35E+00	3.08E+01	6.57E+00	3.11E+01	3.17E+01	1.14E+01	7.41E+00	7.08E-11
Lu-172	1.08E+01	2.05E+00	2.07E+00	5.89E+00	9.33E+00	1.30E+00	3.78E+01	2.79E+00	1.47E+01	1.46E+01	5.14E+00	3.25E+00	2.47E-11
Lu-173	3.75E-01	1.35E-01	1.17E-01	2.72E-01	3.60E-01	1.28E+00	5.06E-01	2.77E+00	7.67E+00	8.86E+00	3.81E+00	2.88E+00	1.84E-09
Lu-174	5.35E-01	1.31E-01	1.20E-01	3.08E-01	4.61E-01	1.29E+00	2.09E-01	1.67E+00	6.86E+00	7.44E+00	2.91E+00	1.95E+00	2.70E-09
Lu-174m	1.29E-01	6.22E-02	4.94E-02	1.01E-01	1.23E-01	1.36E+00	1.78E+00	1.28E+01	2.64E+01	3.32E+01	1.62E+01	1.34E+01	2.42E-09
Lu-176	2.33E+00	5.33E-01	5.39E-01	1.51E+00	2.22E+00	1.29E+00	1.93E-11	3.47E-01	1.52E+00	1.50E+00	5.34E-01	3.64E-01	6.15E+00
Lu-176m	3.90E-02	6.54E-02	1.67E-02	3.32E-02	3.90E-02	1.46E+00	1.65E+03	3.02E+04	1.80E+04	7.08E+04	3.55E+04	3.02E+04	6.26E-09
Lu-177	1.45E-01	3.75E-02	3.71E-02	1.01E-01	1.41E-01	1.30E+00	3.77E+01	2.09E+02	8.07E+02	8.15E+02	3.01E+02	2.15E+02	1.90E-09
Lu-177m	4.61E+00	1.09E+00	1.09E+00	3.00E+00	4.36E+00	1.33E+00	1.57E+00	3.38E-01	1.43E+00	1.43E+00	5.18E-01	3.56E-01	7.38E-11
Lu-178	8.50E-01	2.51E-01	1.66E-01	4.51E-01	7.16E-01	1.22E+00	1.28E+04	1.29E+04	4.37E+04	6.59E+04	2.43E+04	1.53E+04	3.47E-10
Lu-178m	5.39E+00	1.26E+00	1.23E+00	3.43E+00	5.05E+00	1.28E+00	1.60E+04	2.43E+03	1.04E+04	1.07E+04	3.81E+03	2.59E+03	5.22E-11
Lu-179	1.54E-01	8.95E-02	3.90E-02	1.02E-01	1.47E-01	1.28E+00	1.32E+03	7.00E+03	1.20E+04	2.76E+04	1.05E+04	7.34E+03	1.84E-09
Md-257	4.61E-01	1.18E-01	1.16E-01	3.15E-01	4.42E-01	1.73E+00	1.17E+03	1.53E+03	5.97E+03	6.06E+03	2.23E+03	1.59E+03	6.53E-10
Md-258	1.86E-03	3.87E-03	1.04E-03	1.68E-03	1.86E-03	1.88E+00	4.60E+00	1.39E+03	6.65E+02	2.48E+03	1.53E+03	1.39E+03	1.51E-07
Mg-28	8.15E+00	1.47E+00	1.50E+00	4.31E+00	6.92E+00	1.23E+00	2.90E+02	3.02E+01	1.67E+02	1.65E+02	5.71E+01	3.56E+01	5.65E-12
Mn-51	5.52E+00	1.25E+00	1.15E+00	3.25E+00	5.00E+00	1.26E+00	7.88E+03	1.18E+03	5.23E+03	5.66E+03	2.01E+03	1.31E+03	1.48E-11
Mn-52	2.07E+01	3.76E+00	3.82E+00	1.10E+01	1.77E+01	1.22E+00	4.52E+01	1.87E+00	1.03E+01	1.01E+01	3.50E+00	2.19E+00	4.17E-12
Mn-52m	1.44E+01	2.75E+00	2.70E+00	7.74E+00	1.23E+01	1.23E+00	1.73E+04	1.02E+03	5.31E+03	5.41E+03	1.89E+03	1.19E+03	5.95E-12
Mn-53	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-07	-	-	-	-	-	-

Output generated 06JUL2010:04:50:47

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Resident Building Dose Compliance Concentrations for 3-D Direct External Exposure

Radionuclide	External Exposure DCF (Infinite Volume) (mrem/yr per pCi/g)	External Exposure DCF (Ground Plane) (mrem/yr per pCi/cm^2)	External Exposure DCF (1 cm) (mrem/yr per pCi/g)	External Exposure DCF (5 cm) (mrem/yr per pCi/g)	External Exposure DCF (15 cm) (mrem/yr per pCi/g)	F_{surf}	Lambda	Resident 3-D External BDCC (infinite depth) (pCi/g)	Resident 3-D External BDCC (ground plane) (pCi/cm^2)	Resident 3-D External BDCC (1 cm) (pCi/g)	Resident 3-D External BDCC (5 cm) (pCi/g)	Resident 3-D External BDCC (15 cm) (pCi/g)	Resident 3-D External BDCC (mass) (mg/kg)
Mn-54	4.85E+00	9.23E-01	9.36E-01	2.69E+00	4.23E+00	1.24E+00	8.09E-01	2.53E-01	1.33E+00	1.31E+00	4.57E-01	2.90E-01	3.28E-11
Mn-56	1.05E+01	1.89E+00	1.87E+00	5.37E+00	8.73E+00	1.22E+00	2.35E+03	1.92E+02	1.06E+03	1.08E+03	3.75E+02	2.31E+02	8.85E-12
Mo-101	8.24E+00	1.53E+00	1.51E+00	4.35E+00	6.98E+00	1.29E+00	2.49E+04	2.44E+03	1.32E+04	1.33E+04	4.63E+03	2.89E+03	1.92E-11
Mo-90	4.29E+00	9.08E-01	9.06E-01	2.57E+00	3.90E+00	1.23E+00	1.07E+03	2.12E+02	1.00E+03	1.00E+03	3.53E+02	2.33E+02	3.45E-11
Mo-93	4.16E-04	4.53E-03	4.18E-04	4.16E-04	4.16E-04	2.30E+00	1.98E-04	1.09E+03	1.00E+02	1.09E+03	1.09E+03	1.09E+03	9.94E-04
Mo-93m	1.36E+01	2.42E+00	2.48E+00	7.14E+00	1.15E+01	1.22E+00	8.86E+02	5.59E+01	3.14E+02	3.05E+02	1.06E+02	6.60E+01	1.14E-11
Mo-99	8.34E-01	2.08E-01	1.71E-01	4.81E-01	7.44E-01	1.33E+00	9.20E+01	8.65E+01	3.47E+02	4.23E+02	1.50E+02	9.69E+01	1.81E-10
N-13	5.61E+00	1.20E+00	1.16E+00	3.30E+00	5.09E+00	1.26E+00	3.66E+04	5.39E+03	2.52E+04	2.61E+04	9.16E+03	5.94E+03	3.72E-12
Na-22	1.29E+01	2.39E+00	2.44E+00	7.01E+00	1.11E+01	1.25E+00	2.66E-01	7.37E-02	3.97E-01	3.89E-01	1.36E-01	8.54E-02	1.18E-11
Na-24	2.72E+01	4.19E+00	4.33E+00	1.27E+01	2.13E+01	1.19E+00	4.05E+02	1.30E+01	8.47E+01	8.20E+01	2.80E+01	1.67E+01	1.50E-12
Nb-88	2.37E+01	4.69E+00	4.64E+00	1.33E+01	2.09E+01	1.24E+00	2.55E+04	9.04E+02	4.57E+03	4.61E+03	1.62E+03	1.03E+03	6.06E-12
Nb-89	8.32E+00	1.62E+00	1.56E+00	4.46E+00	7.09E+00	1.25E+00	2.99E+03	2.99E+02	1.54E+03	1.59E+03	5.59E+02	3.51E+02	1.73E-11
Nb-89m	1.07E+01	2.26E+00	2.20E+00	6.25E+00	9.64E+00	1.24E+00	5.52E+03	4.35E+02	2.05E+03	2.11E+03	7.43E+02	4.81E+02	1.36E-11
Nb-90	2.65E+01	4.42E+00	4.53E+00	1.32E+01	2.14E+01	1.23E+00	4.16E+02	1.33E+01	7.97E+01	7.78E+01	2.68E+01	1.64E+01	5.59E-12
Nb-93m	7.35E-05	7.96E-04	7.35E-05	7.35E-05	7.35E-05	2.30E+00	5.10E-02	6.33E+03	5.84E+02	6.33E+03	6.33E+03	6.33E+03	2.24E-05
Nb-94	9.10E+00	1.74E+00	1.77E+00	5.07E+00	7.98E+00	1.25E+00	3.41E-05	9.17E-02	4.80E-01	4.72E-01	1.64E-01	1.05E-01	4.90E-07
Nb-95	4.42E+00	8.50E-01	8.62E-01	2.46E+00	3.88E+00	1.25E+00	7.20E+00	1.36E+00	7.07E+00	6.97E+00	2.44E+00	1.55E+00	3.48E-11
Nb-95m	2.93E-01	6.90E-02	6.79E-02	1.92E-01	2.82E-01	2.14E+00	7.01E+01	1.17E+02	4.95E+02	5.03E+02	1.78E+02	1.21E+02	3.07E-10
Nb-96	1.44E+01	2.73E+00	2.78E+00	7.94E+00	1.25E+01	1.25E+00	2.60E+02	1.51E+01	7.94E+01	7.81E+01	2.73E+01	1.73E+01	1.08E-11
Nb-97	3.73E+00	7.88E-01	7.46E-01	2.13E+00	3.32E+00	1.25E+00	5.05E+03	1.13E+03	5.35E+03	5.65E+03	1.98E+03	1.27E+03	4.21E-11
Nb-97m	4.18E+00	8.11E-01	8.21E-01	2.35E+00	3.69E+00	1.24E+00	3.64E+05	7.33E+04	3.78E+05	3.73E+05	1.30E+05	8.30E+04	3.79E-11
Nb-98	1.44E+01	2.77E+00	2.72E+00	7.80E+00	1.24E+01	1.23E+00	7.07E+03	4.15E+02	2.17E+03	2.20E+03	7.69E+02	4.84E+02	1.12E-11
Nd-136	1.28E+00	3.19E-01	2.95E-01	7.93E-01	1.17E+00	1.26E+00	7.19E+03	4.65E+03	1.87E+04	2.02E+04	7.51E+03	5.07E+03	1.71E-10
Nd-138	8.77E-02	4.38E-02	2.89E-02	6.17E-02	8.36E-02	1.36E+00	1.20E+03	1.05E+04	2.11E+04	3.20E+04	1.50E+04	1.11E+04	2.34E-09
Nd-139	2.16E+00	4.75E-01	4.46E-01	1.25E+00	1.94E+00	1.25E+00	1.23E+04	4.73E+03	2.15E+04	2.30E+04	8.16E+03	5.28E+03	1.04E-10
Nd-139m	8.90E+00	1.73E+00	1.73E+00	4.92E+00	7.74E+00	1.27E+00	1.10E+03	1.02E+02	5.25E+02	5.25E+02	1.84E+02	1.17E+02	2.49E-11
Nd-141	2.87E-01	7.98E-02	6.55E-02	1.67E-01	2.54E-01	1.36E+00	2.44E+03	6.51E+03	2.34E+04	2.86E+04	1.12E+04	7.37E+03	7.30E-10
Nd-141m	4.36E+00	8.54E-01	8.54E-01	2.44E+00	3.84E+00	1.25E+00	3.50E+05	6.70E+04	3.42E+05	3.42E+05	1.20E+05	7.61E+04	5.23E-11
Nd-147	6.17E-01	1.63E-01	1.45E-01	3.88E-01	5.69E-01	1.26E+00	2.30E+01	3.09E+01	1.17E+02	1.32E+02	4.92E+01	3.35E+01	3.82E-10

Output generated 06JUL2010:04:50:47

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Resident Building Dose Compliance Concentrations for 3-D Direct External Exposure

Radionuclide	External Exposure DCF (Infinite Volume) (mrem/yr per pCi/g)	External Exposure DCF (Ground Plane) (mrem/yr per pCi/cm^2)	External Exposure DCF (1 cm) (mrem/yr per pCi/g)	External Exposure DCF (5 cm) (mrem/yr per pCi/g)	External Exposure DCF (15 cm) (mrem/yr per pCi/g)	F_{surf}	Lambda	Resident 3-D External BDCC (infinite depth) (pCi/g)	Resident 3-D External BDCC (ground plane) (pCi/cm^2)	Resident 3-D External BDCC (1 cm) (pCi/g)	Resident 3-D External BDCC (5 cm) (pCi/g)	Resident 3-D External BDCC (15 cm) (pCi/g)	Resident 3-D External BDCC (mass) (mg/kg)
Nd-149	1.90E+00	4.74E-01	4.25E-01	1.18E+00	1.76E+00	1.31E+00	3.51E+03	1.47E+03	5.90E+03	6.57E+03	2.36E+03	1.59E+03	1.21E-10
Nd-151	5.13E+00	1.08E+00	1.02E+00	2.89E+00	4.49E+00	1.31E+00	2.93E+04	4.54E+03	2.16E+04	2.29E+04	8.06E+03	5.19E+03	4.55E-11
Ne-19	5.65E+00	1.28E+00	1.18E+00	3.34E+00	5.13E+00	1.26E+00	1.27E+06	1.86E+05	8.18E+05	8.88E+05	3.15E+05	2.05E+05	5.40E-12
Ni-56	9.68E+00	1.89E+00	1.92E+00	5.48E+00	8.54E+00	1.25E+00	4.15E+01	3.57E+00	1.83E+01	1.80E+01	6.31E+00	4.05E+00	9.37E-12
Ni-57	1.17E+01	2.05E+00	2.11E+00	6.08E+00	9.83E+00	1.22E+00	1.68E+02	1.23E+01	7.00E+01	6.82E+01	2.37E+01	1.46E+01	8.06E-12
Ni-59	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.24E-06	-	-	-	-	-	-
Ni-63	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.22E-03	-	-	-	-	-	-
Ni-65	3.41E+00	6.64E-01	6.12E-01	1.76E+00	2.85E+00	1.22E+00	2.41E+03	6.03E+02	3.10E+03	3.37E+03	1.17E+03	7.22E+02	3.16E-11
Ni-66	3.64E-05	3.30E-05	1.77E-05	3.23E-05	3.62E-05	1.31E+00	1.11E+02	2.43E+06	2.68E+06	5.00E+06	2.74E+06	2.45E+06	2.80E-06
Np-232	6.58E+00	1.32E+00	1.33E+00	3.77E+00	5.84E+00	1.28E+00	2.48E+04	3.07E+03	1.53E+04	1.52E+04	5.36E+03	3.46E+03	5.57E-11
Np-233	2.95E-01	9.09E-02	8.77E-02	2.24E-01	2.91E-01	1.45E+00	1.01E+04	2.46E+04	7.96E+04	8.26E+04	3.23E+04	2.49E+04	1.10E-09
Np-234	8.77E+00	1.53E+00	1.56E+00	4.49E+00	7.27E+00	1.72E+00	5.75E+01	3.98E+00	2.28E+01	2.24E+01	7.75E+00	4.79E+00	3.14E-11
Np-235	2.82E-03	3.34E-03	1.07E-03	2.29E-03	2.82E-03	2.23E+00	6.39E-01	2.25E+02	1.90E+02	5.89E+02	2.76E+02	2.25E+02	1.60E-07
Np-236	4.16E-01	1.30E-01	1.22E-01	3.15E-01	4.12E-01	2.09E+00	6.03E-06	1.20E+00	3.85E+00	4.10E+00	1.58E+00	1.21E+00	9.12E-05
Np-236m	1.72E-01	5.11E-02	4.87E-02	1.25E-01	1.66E-01	2.08E+00	2.70E+02	7.88E+02	2.65E+03	2.78E+03	1.08E+03	8.13E+02	1.34E-09
Np-237	6.94E-02	2.94E-02	2.31E-02	5.52E-02	6.92E-02	1.73E+00	3.24E-07	8.69E+00	2.05E+01	2.61E+01	1.09E+01	8.71E+00	1.23E-02
Np-237+D	-	-	-	-	-	1.35E+00	3.24E-07	-	-	-	-	-	-
Np-237+E	1.01E+00	2.46E-01	2.41E-01	6.66E-01	9.59E-01	-	3.24E-07	-	-	-	-	-	-
Np-238	3.25E+00	6.23E-01	6.10E-01	1.75E+00	2.80E+00	2.12E+00	1.19E+02	1.81E+01	9.43E+01	9.64E+01	3.35E+01	2.10E+01	7.00E-11
Np-239	6.88E-01	1.80E-01	1.77E-01	4.79E-01	6.66E-01	1.36E+00	1.07E+02	1.20E+02	4.58E+02	4.66E+02	1.72E+02	1.24E+02	5.17E-10
Np-240	7.25E+00	1.45E+00	1.45E+00	4.12E+00	6.42E+00	1.54E+00	5.60E+03	5.23E+02	2.62E+03	2.63E+03	9.21E+02	5.91E+02	4.35E-11
Np-240m	1.90E+00	4.52E-01	3.80E-01	1.07E+00	1.68E+00	1.82E+00	4.92E+04	1.48E+04	6.24E+04	7.41E+04	2.63E+04	1.68E+04	1.40E-10
O-15	5.61E+00	1.25E+00	1.17E+00	3.32E+00	5.09E+00	1.26E+00	1.79E+05	2.64E+04	1.19E+05	1.27E+05	4.46E+04	2.91E+04	4.29E-12
Os-180	1.41E-01	6.29E-02	5.22E-02	1.13E-01	1.36E-01	2.08E+00	1.66E+04	5.89E+04	1.32E+05	1.59E+05	7.37E+04	6.09E+04	1.24E-09
Os-181	6.75E+00	1.32E+00	1.33E+00	3.77E+00	5.87E+00	1.29E+00	3.47E+03	4.15E+02	2.13E+03	2.11E+03	7.44E+02	4.77E+02	4.21E-11
Os-182	2.07E+00	4.74E-01	4.70E-01	1.29E+00	1.92E+00	1.74E+00	2.76E+02	7.99E+01	3.49E+02	3.52E+02	1.28E+02	8.61E+01	1.02E-10
Os-185	3.90E+00	7.95E-01	7.96E-01	2.24E+00	3.47E+00	1.25E+00	2.69E+00	6.18E-01	3.03E+00	3.02E+00	1.08E+00	6.94E-01	8.24E-11
Os-189m	1.76E-06	5.64E-05	1.76E-06	1.76E-06	1.76E-06	4.88E+00	1.01E+03	1.23E+08	3.84E+06	1.23E+08	1.23E+08	1.23E+08	4.45E-05
Os-190m	8.50E+00	1.76E+00	1.78E+00	5.09E+00	7.76E+00	1.26E+00	3.68E+04	3.58E+03	1.73E+04	1.71E+04	5.98E+03	3.92E+03	3.59E-11

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Default

Resident Building Dose Compliance Concentrations for 3-D Direct External Exposure

Radionuclide	External Exposure DCF (Infinite Volume) (mrem/yr per pCi/g)	External Exposure DCF (Ground Plane) (mrem/yr per pCi/cm^2)	External Exposure DCF (1 cm) (mrem/yr per pCi/g)	External Exposure DCF (5 cm) (mrem/yr per pCi/g)	External Exposure DCF (15 cm) (mrem/yr per pCi/g)	F_{surf}	Lambda	Resident 3-D External BDCC (infinite depth) (pCi/g)	Resident 3-D External BDCC (ground plane) (pCi/cm^2)	Resident 3-D External BDCC (1 cm) (pCi/g)	Resident 3-D External BDCC (5 cm) (pCi/g)	Resident 3-D External BDCC (15 cm) (pCi/g)	Resident 3-D External BDCC (mass) (mg/kg)
Os-191	2.14E-01	7.88E-02	7.27E-02	1.72E-01	2.13E-01	1.65E+00	1.64E+01	4.84E+01	1.32E+02	1.43E+02	6.04E+01	4.88E+01	1.09E-09
Os-191m	1.38E-02	7.47E-03	6.21E-03	1.26E-02	1.38E-02	3.38E+00	4.66E+02	1.04E+04	1.92E+04	2.31E+04	1.14E+04	1.04E+04	8.27E-09
Os-193	3.41E-01	1.12E-01	8.11E-02	2.18E-01	3.17E-01	1.45E+00	2.02E+02	4.26E+02	1.30E+03	1.79E+03	6.67E+02	4.59E+02	7.89E-10
Os-194	9.31E-04	1.11E-03	6.17E-04	9.18E-04	9.31E-04	3.79E+00	1.16E-01	3.13E+02	2.61E+02	4.72E+02	3.18E+02	3.13E+02	1.02E-06
Os-194+D	5.24E-01	2.12E-01	1.20E-01	3.13E-01	4.74E-01	1.27E+00	1.16E-01	1.66E+00	4.09E+00	7.26E+00	2.78E+00	1.84E+00	5.41E-09
Os-194+E	5.24E-01	2.12E-01	1.20E-01	3.13E-01	4.74E-01	-	1.16E-01	-	-	-	-	-	-
P-30	5.69E+00	1.32E+00	1.21E+00	3.38E+00	5.17E+00	1.26E+00	1.46E+05	2.12E+04	9.15E+04	1.00E+05	3.57E+04	2.34E+04	8.47E-12
P-32	2.03E-02	9.94E-02	1.24E-02	1.69E-02	1.98E-02	1.31E+00	1.77E+01	6.93E+02	1.42E+02	1.14E+03	8.35E+02	7.13E+02	2.43E-09
P-33	5.02E-05	4.25E-05	2.37E-05	4.40E-05	5.00E-05	1.31E+00	9.96E+00	1.58E+05	1.87E+05	3.35E+05	1.80E+05	1.59E+05	1.02E-06
Pa-227	5.65E-02	2.11E-02	1.92E-02	4.61E-02	5.65E-02	2.29E+00	9.51E+03	7.66E+04	2.05E+05	2.25E+05	9.40E+04	7.66E+04	3.55E-09
Pa-228	6.38E+00	1.23E+00	1.24E+00	3.54E+00	5.54E+00	2.27E+00	2.76E+02	1.99E+01	1.03E+02	1.02E+02	3.58E+01	2.29E+01	3.19E-11
Pa-230	3.56E+00	7.08E-01	7.14E-01	2.03E+00	3.13E+00	2.21E+00	1.45E+01	1.93E+00	9.68E+00	9.60E+00	3.37E+00	2.19E+00	5.91E-11
Pa-231	1.76E-01	4.41E-02	4.03E-02	1.12E-01	1.66E-01	2.00E+00	2.12E-05	2.96E+00	1.18E+01	1.29E+01	4.64E+00	3.14E+00	6.28E-05
Pa-232	5.35E+00	1.03E+00	1.04E+00	2.98E+00	4.68E+00	1.54E+00	1.93E+02	2.44E+01	1.27E+02	1.26E+02	4.38E+01	2.79E+01	5.70E-11
Pa-233	9.40E-01	2.17E-01	2.18E-01	6.10E-01	8.90E-01	1.43E+00	9.37E+00	7.27E+00	3.15E+01	3.13E+01	1.12E+01	7.68E+00	3.51E-10
Pa-234	1.09E+01	2.10E+00	2.11E+00	6.04E+00	9.47E+00	1.54E+00	9.06E+02	5.64E+01	2.92E+02	2.91E+02	1.02E+02	6.48E+01	2.83E-11
Pa-234m	9.85E-02	1.26E-01	3.13E-02	6.21E-02	8.80E-02	2.14E+00	3.11E+05	1.54E+06	1.20E+06	4.84E+06	2.44E+06	1.72E+06	2.25E-09
Pb-195m	8.67E+00	1.77E+00	1.78E+00	5.04E+00	7.78E+00	1.26E+00	2.31E+04	2.20E+03	1.08E+04	1.07E+04	3.79E+03	2.45E+03	3.61E-11
Pb-198	2.05E+00	4.74E-01	4.74E-01	1.31E+00	1.92E+00	1.49E+00	2.53E+03	8.63E+02	3.74E+03	3.74E+03	1.36E+03	9.22E+02	1.31E-10
Pb-199	8.56E+00	1.59E+00	1.61E+00	4.61E+00	7.31E+00	2.02E+00	4.05E+03	2.44E+02	1.32E+03	1.30E+03	4.54E+02	2.86E+02	2.33E-11
Pb-200	7.63E-01	2.17E-01	2.11E-01	5.46E-01	7.39E-01	1.50E+00	2.82E+02	2.57E+02	9.04E+02	9.31E+02	3.59E+02	2.66E+02	3.54E-10
Pb-201	3.99E+00	8.26E-01	8.34E-01	2.35E+00	3.58E+00	2.06E+00	6.46E+02	8.19E+01	3.96E+02	3.92E+02	1.39E+02	9.13E+01	4.95E-11
Pb-202	7.33E-06	2.23E-04	7.33E-06	7.33E-06	7.33E-06	4.54E+00	2.31E-06	3.13E+04	1.03E+03	3.13E+04	3.13E+04	3.13E+04	5.32E+00
Pb-202+D	1.40E+01	-	-	-	-	1.27E+00	2.31E-06	5.86E-02	-	-	-	-	9.95E-06
Pb-202+E	2.33E+00	5.13E-01	5.15E-01	1.43E+00	2.14E+00	-	2.31E-06	-	-	-	-	-	-
Pb-202m	1.17E+01	2.25E+00	2.29E+00	6.56E+00	1.03E+01	2.93E+00	1.68E+03	5.12E+01	2.65E+02	2.60E+02	9.09E+01	5.81E+01	1.20E-11
Pb-203	1.38E+00	3.34E-01	3.34E-01	9.12E-01	1.31E+00	1.37E+00	1.17E+02	6.44E+01	2.66E+02	2.66E+02	9.73E+01	6.77E+01	2.18E-10
Pb-205	8.19E-06	2.43E-04	8.19E-06	8.19E-06	8.19E-06	4.44E+00	4.85E-08	2.87E+04	9.68E+02	2.87E+04	2.87E+04	2.87E+04	2.35E+02
Pb-209	7.52E-04	3.72E-03	2.95E-04	5.95E-04	7.40E-04	1.31E+00	1.87E+03	1.98E+06	3.99E+05	5.04E+06	2.50E+06	2.01E+06	4.30E-07

Output generated 06JUL2010:04:50:47

Default

Resident Building Dose Compliance Concentrations for 3-D Direct External Exposure

Radionuclide	External Exposure DCF (Infinite Volume) (mrem/yr per pCi/g)	External Exposure DCF (Ground Plane) (mrem/yr per pCi/cm^2)	External Exposure DCF (1 cm) (mrem/yr per pCi/g)	External Exposure DCF (5 cm) (mrem/yr per pCi/g)	External Exposure DCF (15 cm) (mrem/yr per pCi/g)	F_{surf}	Lambda	Resident 3-D External BDCC (infinite depth) (pCi/g)	Resident 3-D External BDCC (ground plane) (pCi/cm^2)	Resident 3-D External BDCC (1 cm) (pCi/g)	Resident 3-D External BDCC (5 cm) (pCi/g)	Resident 3-D External BDCC (15 cm) (pCi/g)	Resident 3-D External BDCC (mass) (mg/kg)
Pb-210	1.98E-03	2.49E-03	1.26E-03	1.96E-03	1.98E-03	3.09E+00	3.11E-02	1.73E+02	1.38E+02	2.71E+02	1.75E+02	1.73E+02	2.27E-06
Pb-211	2.91E-01	1.11E-01	6.17E-02	1.69E-01	2.59E-01	1.27E+00	1.01E+04	2.85E+04	7.47E+04	1.34E+05	4.90E+04	3.20E+04	1.16E-09
Pb-212	6.45E-01	1.58E-01	1.59E-01	4.36E-01	6.21E-01	1.29E+00	5.71E+02	7.15E+02	2.93E+03	2.90E+03	1.06E+03	7.43E+02	5.15E-10
Pb-214	1.24E+00	2.80E-01	2.78E-01	7.80E-01	1.16E+00	1.42E+00	1.36E+04	8.05E+03	3.56E+04	3.59E+04	1.28E+04	8.60E+03	2.46E-10
Pd-100	2.89E-01	1.24E-01	1.04E-01	2.41E-01	2.89E-01	1.59E+00	6.97E+01	1.58E+02	3.69E+02	4.38E+02	1.90E+02	1.58E+02	4.40E-10
Pd-101	1.74E+00	3.61E-01	3.52E-01	1.01E+00	1.55E+00	1.25E+00	7.34E+02	3.53E+02	1.70E+03	1.74E+03	6.09E+02	3.94E+02	9.42E-11
Pd-103	1.88E-03	8.95E-03	1.43E-03	1.66E-03	1.84E-03	1.89E+00	1.49E+01	4.37E+03	9.19E+02	5.75E+03	4.95E+03	4.48E+03	5.85E-08
Pd-107	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-07	-	-	-	-	-	-
Pd-109	1.80E-02	4.35E-02	7.22E-03	1.41E-02	1.75E-02	1.72E+00	4.52E+02	1.52E+04	6.30E+03	3.80E+04	1.94E+04	1.56E+04	7.13E-09
Pm-141	4.18E+00	9.02E-01	8.43E-01	2.39E+00	3.71E+00	1.26E+00	1.74E+04	3.45E+03	1.60E+04	1.71E+04	6.04E+03	3.89E+03	5.42E-11
Pm-142	4.89E+00	1.12E+00	1.03E+00	2.85E+00	4.40E+00	1.26E+00	5.40E+05	9.14E+04	3.98E+05	4.35E+05	1.57E+05	1.01E+05	4.67E-11
Pm-143	1.66E+00	3.47E-01	3.36E-01	9.40E-01	1.47E+00	1.30E+00	9.55E-01	7.50E-01	3.59E+00	3.71E+00	1.32E+00	8.49E-01	2.18E-10
Pm-144	8.65E+00	1.74E+00	1.75E+00	4.98E+00	7.72E+00	1.25E+00	6.97E-01	1.34E-01	6.66E-01	6.64E-01	2.33E-01	1.50E-01	5.37E-11
Pm-145	2.31E-02	3.05E-02	1.58E-02	2.26E-02	2.31E-02	1.42E+00	3.92E-02	3.24E+01	2.46E+01	4.75E+01	3.32E+01	3.24E+01	2.33E-07
Pm-146	4.12E+00	8.39E-01	8.37E-01	2.39E+00	3.69E+00	1.25E+00	1.25E-01	2.15E-01	1.06E+00	1.06E+00	3.72E-01	2.40E-01	4.87E-10
Pm-147	4.29E-05	3.27E-05	1.88E-05	3.66E-05	4.27E-05	1.34E+00	2.64E-01	2.06E+04	2.71E+04	4.70E+04	2.42E+04	2.07E+04	2.23E-05
Pm-148	3.49E+00	7.13E-01	6.49E-01	1.85E+00	2.97E+00	1.23E+00	4.71E+01	1.15E+01	5.60E+01	6.15E+01	2.15E+01	1.35E+01	6.98E-11
Pm-148m	1.12E+01	2.23E+00	2.26E+00	6.43E+00	1.00E+01	1.26E+00	6.12E+00	4.52E-01	2.28E+00	2.25E+00	7.90E-01	5.06E-01	2.12E-11
Pm-149	5.95E-02	4.71E-02	1.45E-02	3.77E-02	5.56E-02	1.27E+00	1.14E+02	1.58E+03	1.99E+03	6.50E+03	2.49E+03	1.69E+03	3.99E-09
Pm-150	8.56E+00	1.65E+00	1.59E+00	4.57E+00	7.29E+00	1.27E+00	2.27E+03	2.17E+02	1.13E+03	1.17E+03	4.07E+02	2.55E+02	2.79E-11
Pm-151	1.61E+00	3.71E-01	3.52E-01	9.88E-01	1.48E+00	1.33E+00	2.14E+02	1.04E+02	4.52E+02	4.76E+02	1.70E+02	1.13E+02	1.43E-10
Po-203	9.53E+00	1.79E+00	1.80E+00	5.17E+00	8.17E+00	1.48E+00	9.92E+03	7.34E+02	3.92E+03	3.88E+03	1.35E+03	8.56E+02	2.91E-11
Po-205	9.16E+00	1.72E+00	1.74E+00	4.96E+00	7.87E+00	1.75E+00	3.37E+03	2.19E+02	1.17E+03	1.16E+03	4.05E+02	2.55E+02	2.59E-11
Po-207	7.59E+00	1.45E+00	1.47E+00	4.20E+00	6.58E+00	1.87E+00	1.04E+03	7.65E+01	4.01E+02	3.95E+02	1.38E+02	8.82E+01	2.95E-11
Po-210	4.92E-05	9.44E-06	9.55E-06	2.74E-05	4.31E-05	1.25E+00	1.83E+00	3.69E+04	1.92E+05	1.90E+05	6.63E+04	4.22E+04	8.23E-06
Po-211	4.48E-02	8.66E-03	8.77E-03	2.52E-02	3.94E-02	1.25E+00	4.24E+07	7.89E+08	4.08E+09	4.03E+09	1.40E+09	8.98E+08	7.63E-09
Po-212	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.17E+13	-	-	-	-	-	-
Po-213	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.20E+12	-	-	-	-	-	-
Po-214	4.83E-04	9.25E-05	9.36E-05	2.69E-04	4.23E-04	1.25E+00	1.33E+11	2.30E+14	1.20E+15	1.19E+15	4.13E+14	2.62E+14	7.17E-07

Output generated 06JUL2010:04:50:47

Default

Resident Building Dose Compliance Concentrations for 3-D Direct External Exposure

Radionuclide	External Exposure DCF (Infinite Volume) (mrem/yr per pCi/g)	External Exposure DCF (Ground Plane) (mrem/yr per pCi/cm^2)	External Exposure DCF (1 cm) (mrem/yr per pCi/g)	External Exposure DCF (5 cm) (mrem/yr per pCi/g)	External Exposure DCF (15 cm) (mrem/yr per pCi/g)	F_{surf}	Lambda	Resident 3-D External BDCC (infinite depth) (pCi/g)	Resident 3-D External BDCC (ground plane) (pCi/cm^2)	Resident 3-D External BDCC (1 cm) (pCi/g)	Resident 3-D External BDCC (5 cm) (pCi/g)	Resident 3-D External BDCC (15 cm) (pCi/g)	Resident 3-D External BDCC (mass) (mg/kg)
Po-215	9.44E-04	1.96E-04	2.00E-04	5.69E-04	8.67E-04	1.27E+00	1.23E+10	1.07E+13	5.14E+13	5.05E+13	1.77E+13	1.16E+13	3.63E-07
Po-216	9.81E-05	1.88E-05	1.90E-05	5.45E-05	8.60E-05	1.25E+00	1.46E+08	1.24E+12	6.47E+12	6.39E+12	2.23E+12	1.41E+12	3.56E-06
Po-218	5.32E-05	1.01E-05	1.02E-05	2.93E-05	4.64E-05	1.24E+00	1.19E+05	1.89E+09	9.94E+09	9.81E+09	3.43E+09	2.16E+09	6.69E-06
Pr-136	1.22E+01	2.38E+00	2.35E+00	6.71E+00	1.06E+01	1.24E+00	2.78E+04	1.92E+03	9.82E+03	9.95E+03	3.48E+03	2.21E+03	1.82E-11
Pr-137	2.69E+00	5.80E-01	5.54E-01	1.56E+00	2.41E+00	1.26E+00	4.76E+03	1.47E+03	6.79E+03	7.11E+03	2.52E+03	1.64E+03	8.19E-11
Pr-138	4.53E+00	1.05E+00	9.57E-01	2.67E+00	4.08E+00	1.25E+00	2.51E+05	4.62E+04	2.00E+05	2.19E+05	7.86E+04	5.13E+04	4.93E-11
Pr-138m	1.42E+01	2.74E+00	2.76E+00	7.89E+00	1.24E+01	1.25E+00	2.89E+03	1.70E+02	8.79E+02	8.74E+02	3.06E+02	1.94E+02	1.58E-11
Pr-139	5.56E-01	1.37E-01	1.20E-01	3.25E-01	4.98E-01	1.34E+00	1.35E+03	1.88E+03	7.67E+03	8.74E+03	3.23E+03	2.10E+03	3.78E-10
Pr-142	4.03E-01	1.72E-01	8.17E-02	2.09E-01	3.32E-01	1.21E+00	3.17E+02	6.79E+02	1.59E+03	3.35E+03	1.31E+03	8.24E+02	5.90E-10
Pr-142m	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.49E+04	-	-	-	-	-	-
Pr-143	2.91E-03	2.40E-02	1.52E-03	2.39E-03	2.85E-03	1.25E+00	1.87E+01	5.35E+03	6.47E+02	1.02E+04	6.52E+03	5.45E+03	7.96E-08
Pr-144	2.67E-01	1.90E-01	7.14E-02	1.52E-01	2.28E-01	1.21E+00	2.11E+04	6.81E+04	9.55E+04	2.54E+05	1.19E+05	7.98E+04	9.03E-10
Pr-144m	1.20E-02	1.23E-02	6.23E-03	9.66E-03	1.14E-02	1.41E+00	5.06E+04	3.12E+06	3.05E+06	6.01E+06	3.87E+06	3.29E+06	1.72E-08
Pr-145	9.51E-02	1.09E-01	2.69E-02	5.82E-02	8.49E-02	1.24E+00	1.02E+03	8.98E+03	7.80E+03	3.18E+04	1.47E+04	1.01E+04	2.49E-09
Pr-147	4.74E+00	1.04E+00	9.57E-01	2.69E+00	4.18E+00	1.27E+00	2.68E+04	4.64E+03	2.11E+04	2.30E+04	8.19E+03	5.26E+03	4.94E-11
Pt-186	4.01E+00	8.17E-01	8.21E-01	2.31E+00	3.58E+00	1.24E+00	3.04E+03	6.37E+02	3.12E+03	3.11E+03	1.10E+03	7.13E+02	7.57E-11
Pt-188	7.68E-01	2.12E-01	2.05E-01	5.32E-01	7.37E-01	1.30E+00	2.48E+01	2.59E+01	9.37E+01	9.70E+01	3.74E+01	2.70E+01	3.81E-10
Pt-189	1.47E+00	3.49E-01	3.39E-01	9.08E-01	1.33E+00	1.61E+00	5.58E+02	2.46E+02	1.04E+03	1.07E+03	3.98E+02	2.71E+02	1.62E-10
Pt-191	1.24E+00	3.24E-01	3.11E-01	8.17E-01	1.16E+00	1.50E+00	9.03E+01	5.05E+01	1.94E+02	2.02E+02	7.69E+01	5.41E+01	2.07E-10
Pt-193	6.30E-06	1.80E-04	6.30E-06	6.30E-06	6.30E-06	4.30E+00	1.39E-02	3.87E+04	1.36E+03	3.87E+04	3.87E+04	3.87E+04	1.05E-03
Pt-193m	2.22E-02	1.09E-02	9.34E-03	1.98E-02	2.22E-02	2.85E+00	5.84E+01	9.63E+02	1.97E+03	2.29E+03	1.08E+03	9.63E+02	6.17E-09
Pt-195m	1.65E-01	7.22E-02	6.40E-02	1.42E-01	1.65E-01	1.85E+00	6.29E+01	2.15E+02	4.91E+02	5.54E+02	2.51E+02	2.15E+02	1.29E-09
Pt-197	7.25E-02	2.79E-02	2.29E-02	5.61E-02	7.14E-02	2.34E+00	3.32E+02	2.04E+03	5.30E+03	6.44E+03	2.63E+03	2.07E+03	2.35E-09
Pt-197m	3.04E-01	8.50E-02	8.08E-02	2.07E-01	2.89E-01	1.79E+00	3.86E+03	7.39E+03	2.65E+04	2.78E+04	1.09E+04	7.78E+03	7.33E-10
Pt-199	1.10E+00	2.88E-01	2.33E-01	6.53E-01	9.96E-01	1.31E+00	1.18E+04	8.58E+03	3.27E+04	4.04E+04	1.44E+04	9.45E+03	2.80E-10
Pt-200	2.01E-01	6.37E-02	5.84E-02	1.47E-01	1.96E-01	1.69E+00	4.86E+02	1.49E+03	4.70E+03	5.13E+03	2.03E+03	1.53E+03	1.19E-09
Pu-234	2.07E-01	6.75E-02	6.43E-02	1.63E-01	2.07E-01	2.06E+00	6.90E+02	1.69E+03	5.18E+03	5.43E+03	2.14E+03	1.69E+03	1.11E-09
Pu-235	3.04E-01	9.34E-02	8.88E-02	2.28E-01	2.97E-01	1.53E+00	1.44E+04	3.23E+04	1.05E+05	1.11E+05	4.31E+04	3.31E+04	1.02E-09
Pu-236	1.81E-04	8.58E-04	1.18E-04	1.61E-04	1.79E-04	2.30E+00	2.43E-01	2.82E+03	5.95E+02	4.33E+03	3.17E+03	2.85E+03	5.32E-06

Output generated 06JUL2010:04:50:47

Default

Resident Building Dose Compliance Concentrations for 3-D Direct External Exposure

Radionuclide	External Exposure DCF (Infinite Volume) (mrem/yr per pCi/g)	External Exposure DCF (Ground Plane) (mrem/yr per pCi/cm^2)	External Exposure DCF (1 cm) (mrem/yr per pCi/g)	External Exposure DCF (5 cm) (mrem/yr per pCi/g)	External Exposure DCF (15 cm) (mrem/yr per pCi/g)	F_{surf}	Lambda	Resident 3-D External BDCC (infinite depth) (pCi/g)	Resident 3-D External BDCC (ground plane) (pCi/cm^2)	Resident 3-D External BDCC (1 cm) (pCi/g)	Resident 3-D External BDCC (5 cm) (pCi/g)	Resident 3-D External BDCC (15 cm) (pCi/g)	Resident 3-D External BDCC (mass) (mg/kg)
Pu-237	1.45E-01	4.96E-02	4.57E-02	1.14E-01	1.45E-01	2.04E+00	5.58E+00	1.98E+01	5.78E+01	6.27E+01	2.51E+01	1.98E+01	1.63E-09
Pu-238	1.16E-04	7.31E-04	8.77E-05	1.08E-04	1.16E-04	2.30E+00	7.90E-03	3.91E+03	6.23E+02	5.19E+03	4.22E+03	3.94E+03	2.29E-04
Pu-239	2.63E-04	3.31E-04	8.88E-05	1.88E-04	2.52E-04	2.29E+00	2.88E-05	1.73E+03	1.37E+03	5.13E+03	2.42E+03	1.81E+03	2.79E-02
Pu-240	1.12E-04	7.01E-04	8.58E-05	1.06E-04	1.12E-04	2.30E+00	1.06E-04	4.04E+03	6.47E+02	5.29E+03	4.30E+03	4.04E+03	1.77E-02
Pu-241	5.30E-06	2.01E-06	1.63E-06	4.10E-06	5.28E-06	1.86E+00	4.81E-02	1.08E+05	2.86E+05	3.52E+05	1.40E+05	1.09E+05	1.05E-03
Pu-242	9.90E-05	5.81E-04	7.25E-05	9.21E-05	9.90E-05	2.30E+00	1.84E-06	4.58E+03	7.80E+02	6.25E+03	4.92E+03	4.58E+03	1.17E+00
Pu-243	7.11E-02	2.65E-02	2.33E-02	5.61E-02	7.01E-02	1.38E+00	1.22E+03	1.30E+04	3.49E+04	3.97E+04	1.65E+04	1.32E+04	5.01E-09
Pu-244	1.38E-01	2.36E-02	2.41E-02	6.96E-02	1.13E-01	2.88E+00	8.66E-09	2.63E+00	1.54E+01	1.51E+01	5.21E+00	3.20E+00	1.44E-01
Pu-244+D	2.03E+00	4.78E-01	4.05E-01	1.14E+00	1.79E+00	1.70E+00	8.66E-09	3.02E-01	1.28E+00	1.52E+00	5.37E-01	3.43E-01	1.65E-02
Pu-244+E	2.03E+00	4.78E-01	4.05E-01	1.14E+00	1.79E+00	-	8.66E-09	-	-	-	-	-	-
Pu-245	2.22E+00	4.74E-01	4.61E-01	1.31E+00	2.00E+00	1.39E+00	5.78E+02	1.95E+02	9.16E+02	9.42E+02	3.31E+02	2.17E+02	1.61E-10
Pu-246	5.17E-01	1.44E-01	1.38E-01	3.66E-01	5.04E-01	1.40E+00	2.33E+01	3.36E+01	1.21E+02	1.26E+02	4.75E+01	3.45E+01	6.88E-10
Ra-222	4.70E-02	1.01E-02	1.03E-02	2.95E-02	4.40E-02	1.27E+00	5.75E+05	1.00E+07	4.67E+07	4.57E+07	1.60E+07	1.07E+07	7.53E-09
Ra-223	5.52E-01	1.41E-01	1.41E-01	3.79E-01	5.30E-01	1.72E+00	2.21E+01	2.43E+01	9.50E+01	9.54E+01	3.54E+01	2.53E+01	4.75E-10
Ra-223+D	1.39E+00	4.29E-01	3.26E-01	8.90E-01	1.30E+00	1.13E+00	2.21E+01	1.47E+01	4.75E+01	6.26E+01	2.29E+01	1.57E+01	2.87E-10
Ra-223+E	1.39E+00	4.29E-01	3.26E-01	8.90E-01	1.30E+00	-	2.21E+01	-	-	-	-	-	-
Ra-224	4.72E-02	1.07E-02	1.09E-02	3.10E-02	4.51E-02	1.29E+00	6.91E+01	1.18E+03	5.23E+03	5.11E+03	1.80E+03	1.24E+03	7.45E-09
Ra-224+D	9.66E+00	1.68E+00	1.67E+00	4.81E+00	7.83E+00	1.26E+00	6.91E+01	5.92E+00	3.40E+01	3.43E+01	1.19E+01	7.30E+00	3.72E-11
Ra-224+E	9.66E+00	1.68E+00	1.67E+00	4.81E+00	7.83E+00	-	6.91E+01	-	-	-	-	-	-
Ra-225	8.60E-03	1.25E-02	6.21E-03	8.54E-03	8.58E-03	1.72E+00	1.71E+01	1.21E+03	8.30E+02	1.67E+03	1.21E+03	1.21E+03	3.08E-08
Ra-225+D	1.19E+00	3.12E-01	2.59E-01	7.18E-01	1.08E+00	2.15E+00	1.71E+01	6.97E+00	2.66E+01	3.20E+01	1.15E+01	7.68E+00	1.78E-10
Ra-225+E	1.19E+00	3.12E-01	2.59E-01	7.18E-01	1.08E+00	-	1.71E+01	-	-	-	-	-	-
Ra-226	2.91E-02	7.13E-03	7.24E-03	2.00E-02	2.82E-02	1.31E+00	4.33E-04	2.74E+01	1.12E+02	1.10E+02	3.99E+01	2.83E+01	2.77E-05
Ra-226+D	1.06E+01	-	-	-	-	1.42E+00	4.33E-04	6.92E-02	-	-	-	-	7.01E-08
Ra-226+E	1.06E+01	1.97E+00	1.94E+00	5.60E+00	8.95E+00	-	4.33E-04	-	-	-	-	-	-
Ra-227	7.87E-01	2.12E-01	1.76E-01	4.89E-01	7.31E-01	1.77E+00	8.63E+03	6.46E+03	2.39E+04	2.89E+04	1.04E+04	6.96E+03	3.30E-10
Ra-227+D	-	-	-	-	-	-	8.63E+03	-	-	-	-	-	-
Ra-228	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-01	-	-	-	-	-	-
Ra-228+D	5.65E+00	1.10E+00	1.07E+00	3.08E+00	4.89E+00	1.51E+00	1.21E-01	1.30E-01	6.69E-01	6.82E-01	2.38E-01	1.50E-01	4.76E-10

Output generated 06JUL2010:04:50:47

Default

Resident Building Dose Compliance Concentrations for 3-D Direct External Exposure

Radionuclide	External Exposure DCF (Infinite Volume) (mrem/yr per pCi/g)	External Exposure DCF (Ground Plane) (mrem/yr per pCi/cm^2)	External Exposure DCF (1 cm) (mrem/yr per pCi/g)	External Exposure DCF (5 cm) (mrem/yr per pCi/g)	External Exposure DCF (15 cm) (mrem/yr per pCi/g)	F_{surf}	Lambda	Resident 3-D External BDCC (infinite depth) (pCi/g)	Resident 3-D External BDCC (ground plane) (pCi/cm^2)	Resident 3-D External BDCC (1 cm) (pCi/g)	Resident 3-D External BDCC (5 cm) (pCi/g)	Resident 3-D External BDCC (15 cm) (pCi/g)	Resident 3-D External BDCC (mass) (mg/kg)
Ra-228+E	1.53E+01	2.78E+00	2.74E+00	7.89E+00	1.27E+01	-	1.21E-01	-	-	-	-	-	-
Rb-79	7.39E+00	1.61E+00	1.54E+00	4.38E+00	6.70E+00	1.36E+00	1.59E+04	1.65E+03	7.57E+03	7.90E+03	2.78E+03	1.82E+03	1.59E-11
Rb-80	7.03E+00	1.61E+00	1.49E+00	4.16E+00	6.38E+00	1.26E+00	6.43E+05	7.57E+04	3.30E+05	3.57E+05	1.28E+05	8.34E+04	1.83E-11
Rb-81	3.26E+00	6.98E-01	6.94E-01	1.98E+00	3.00E+00	1.51E+00	1.33E+03	2.80E+02	1.31E+03	1.32E+03	4.63E+02	3.05E+02	3.33E-11
Rb-81m	1.18E-02	5.73E-03	4.21E-03	9.85E-03	1.18E-02	3.13E+00	1.14E+04	3.21E+05	6.62E+05	9.00E+05	3.85E+05	3.21E+05	4.43E-09
Rb-82	6.12E+00	1.40E+00	1.28E+00	3.60E+00	5.54E+00	1.25E+00	2.80E+05	3.82E+04	1.67E+05	1.82E+05	6.49E+04	4.22E+04	2.17E-11
Rb-82m	1.69E+01	3.20E+00	3.25E+00	9.33E+00	1.47E+01	1.24E+00	9.79E+02	4.86E+01	2.58E+02	2.54E+02	8.83E+01	5.59E+01	7.90E-12
Rb-83	2.74E+00	5.55E-01	5.63E-01	1.61E+00	2.48E+00	2.37E+00	2.93E+00	4.97E-01	2.45E+00	2.42E+00	8.49E-01	5.50E-01	2.73E-11
Rb-84	5.26E+00	1.02E+00	1.03E+00	2.95E+00	4.63E+00	2.43E+00	7.72E+00	6.30E-01	3.25E+00	3.23E+00	1.12E+00	7.17E-01	1.33E-11
Rb-86	5.87E-01	1.95E-01	1.17E-01	3.19E-01	5.04E-01	1.23E+00	1.36E+01	1.96E+01	5.90E+01	9.80E+01	3.60E+01	2.28E+01	2.41E-10
Rb-87	1.21E-04	8.52E-05	5.24E-05	1.04E-04	1.21E-04	1.31E+00	1.47E-11	6.57E+03	9.34E+03	1.52E+04	7.69E+03	6.59E+03	7.52E+04
Rb-88	4.21E+00	8.65E-01	7.61E-01	2.11E+00	3.43E+00	1.20E+00	2.05E+04	4.22E+03	2.06E+04	2.34E+04	8.44E+03	5.18E+03	3.52E-11
Rb-89	1.30E+01	2.30E+00	2.28E+00	6.56E+00	1.07E+01	1.24E+00	2.40E+04	1.55E+03	8.77E+03	8.86E+03	3.07E+03	1.89E+03	1.12E-11
Re-177	3.28E+00	6.94E-01	6.66E-01	1.85E+00	2.85E+00	1.26E+00	2.60E+04	6.56E+03	3.10E+04	3.23E+04	1.17E+04	7.55E+03	8.66E-11
Re-178	7.05E+00	1.34E+00	1.32E+00	3.75E+00	5.95E+00	1.25E+00	2.76E+04	3.27E+03	1.72E+04	1.74E+04	6.14E+03	3.87E+03	4.09E-11
Re-180	6.60E+00	1.31E+00	1.31E+00	3.69E+00	5.76E+00	1.24E+00	1.50E+05	1.91E+04	9.64E+04	9.66E+04	3.41E+04	2.19E+04	4.45E-11
Re-181	3.99E+00	8.40E-01	8.39E-01	2.35E+00	3.58E+00	1.34E+00	3.04E+02	5.92E+01	2.81E+02	2.81E+02	1.01E+02	6.60E+01	6.85E-11
Re-182	1.03E+01	2.02E+00	2.03E+00	5.76E+00	8.93E+00	1.33E+00	9.49E+01	7.25E+00	3.68E+01	3.66E+01	1.29E+01	8.33E+00	2.70E-11
Re-182m	6.70E+00	1.26E+00	1.27E+00	3.60E+00	5.69E+00	1.30E+00	4.78E+02	5.73E+01	3.04E+02	3.02E+02	1.07E+02	6.74E+01	4.23E-11
Re-184	4.92E+00	9.77E-01	9.79E-01	2.76E+00	4.31E+00	1.26E+00	6.66E+00	1.12E+00	5.65E+00	5.63E+00	2.00E+00	1.28E+00	6.01E-11
Re-184m	1.90E+00	4.19E-01	4.16E-01	1.14E+00	1.72E+00	1.46E+00	1.53E+00	7.34E-01	3.33E+00	3.36E+00	1.22E+00	8.14E-01	1.71E-10
Re-186	7.18E-02	5.16E-02	2.24E-02	5.45E-02	7.07E-02	1.61E+00	6.70E+01	6.04E+02	8.41E+02	1.94E+03	7.97E+02	6.14E+02	3.26E-09
Re-186m	2.35E-02	1.49E-02	1.13E-02	2.14E-02	2.35E-02	3.72E+00	3.47E-06	1.19E+01	1.88E+01	2.48E+01	1.31E+01	1.19E+01	1.24E-03
Re-186m+D	9.55E-02	-	-	-	-	1.18E+00	3.47E-06	9.26E+00	-	-	-	-	9.64E-04
Re-186m+E	9.53E-02	6.65E-02	3.36E-02	7.59E-02	9.42E-02	-	3.47E-06	-	-	-	-	-	-
Re-187	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-11	-	-	-	-	-	-
Re-188	3.11E-01	1.69E-01	7.87E-02	1.96E-01	2.85E-01	1.27E+00	3.58E+02	9.43E+02	1.73E+03	3.73E+03	1.50E+03	1.03E+03	9.62E-10
Re-188m	1.69E-01	7.90E-02	6.83E-02	1.46E-01	1.68E-01	1.81E+00	1.96E+04	6.68E+04	1.43E+05	1.65E+05	7.73E+04	6.71E+04	1.25E-09
Re-189	3.08E-01	9.81E-02	7.57E-02	2.05E-01	2.95E-01	1.29E+00	2.50E+02	6.56E+02	2.06E+03	2.67E+03	9.84E+02	6.85E+02	9.63E-10

Output generated 06JUL2010:04:50:47

Default

Resident Building Dose Compliance Concentrations for 3-D Direct External Exposure

Radionuclide	External Exposure DCF (Infinite Volume) (mrem/yr per pCi/g)	External Exposure DCF (Ground Plane) (mrem/yr per pCi/cm^2)	External Exposure DCF (1 cm) (mrem/yr per pCi/g)	External Exposure DCF (5 cm) (mrem/yr per pCi/g)	External Exposure DCF (15 cm) (mrem/yr per pCi/g)	F_{surf}	Lambda	Resident 3-D External BDCC (infinite depth) (pCi/g)	Resident 3-D External BDCC (ground plane) (pCi/cm^2)	Resident 3-D External BDCC (1 cm) (pCi/g)	Resident 3-D External BDCC (5 cm) (pCi/g)	Resident 3-D External BDCC (15 cm) (pCi/g)	Resident 3-D External BDCC (mass) (mg/kg)
Rh-100	1.72E+01	2.91E+00	2.98E+00	8.65E+00	1.41E+01	1.25E+00	2.92E+02	1.42E+01	8.38E+01	8.16E+01	2.81E+01	1.72E+01	9.43E-12
Rh-101	1.12E+00	2.80E-01	2.78E-01	7.68E-01	1.09E+00	1.33E+00	2.17E-01	7.77E-01	3.11E+00	3.14E+00	1.13E+00	8.02E-01	7.03E-10
Rh-101m	1.51E+00	3.30E-01	3.30E-01	9.42E-01	1.41E+00	1.27E+00	5.83E+01	3.18E+01	1.45E+02	1.45E+02	5.08E+01	3.39E+01	1.07E-10
Rh-102	1.22E+01	2.36E+00	2.39E+00	6.84E+00	1.07E+01	1.24E+00	2.39E-01	7.78E-02	4.01E-01	3.96E-01	1.38E-01	8.82E-02	6.44E-11
Rh-102m	2.65E+00	5.57E-01	5.43E-01	1.54E+00	2.39E+00	1.80E+00	1.22E+00	3.79E-01	1.80E+00	1.85E+00	6.50E-01	4.20E-01	6.14E-11
Rh-103m	1.70E-04	1.03E-03	1.63E-04	1.70E-04	1.70E-04	1.89E+00	6.49E+03	2.11E+07	3.46E+06	2.19E+07	2.11E+07	2.11E+07	6.51E-07
Rh-105	3.97E-01	8.66E-02	8.75E-02	2.50E-01	3.73E-01	1.28E+00	1.72E+02	3.52E+02	1.62E+03	1.60E+03	5.60E+02	3.75E+02	4.18E-10
Rh-106	1.24E+00	4.03E-01	2.78E-01	7.29E-01	1.11E+00	1.26E+00	7.31E+05	4.86E+05	1.50E+06	2.18E+06	8.30E+05	5.43E+05	1.37E-10
Rh-106m	1.71E+01	3.21E+00	3.25E+00	9.34E+00	1.48E+01	1.25E+00	2.76E+03	1.35E+02	7.17E+02	7.09E+02	2.46E+02	1.56E+02	1.01E-11
Rh-107	1.62E+00	3.94E-01	3.56E-01	1.01E+00	1.51E+00	1.27E+00	1.68E+04	8.51E+03	3.49E+04	3.87E+04	1.37E+04	9.11E+03	1.05E-10
Rh-99	3.15E+00	6.61E-01	6.60E-01	1.86E+00	2.83E+00	1.25E+00	1.58E+01	4.18E+00	2.00E+01	2.00E+01	7.08E+00	4.65E+00	5.08E-11
Rh-99m	3.79E+00	7.46E-01	7.53E-01	2.16E+00	3.36E+00	1.23E+00	1.29E+03	2.89E+02	1.47E+03	1.45E+03	5.06E+02	3.26E+02	4.30E-11
Rn-218	4.25E-03	8.46E-04	8.56E-04	2.44E-03	3.80E-03	1.26E+00	6.24E+08	1.22E+11	6.11E+11	6.04E+11	2.12E+11	1.36E+11	8.23E-08
Rn-219	2.85E-01	6.16E-02	6.29E-02	1.78E-01	2.67E-01	1.28E+00	5.52E+06	1.58E+07	7.30E+07	7.15E+07	2.52E+07	1.69E+07	1.21E-09
Rn-219+D	8.37E-01	2.89E-01	1.85E-01	5.13E-01	7.70E-01	1.16E+00	5.52E+06	5.92E+06	1.71E+07	2.68E+07	9.67E+06	6.44E+06	4.56E-10
Rn-219+E	8.37E-01	2.89E-01	1.85E-01	5.13E-01	7.70E-01	-	5.52E+06	-	-	-	-	-	-
Rn-220	2.14E-03	4.31E-04	4.36E-04	1.25E-03	1.92E-03	1.26E+00	3.93E+05	1.52E+08	7.55E+08	7.45E+08	2.61E+08	1.69E+08	1.65E-07
Rn-222	2.18E-03	4.46E-04	4.51E-04	1.29E-03	1.98E-03	1.26E+00	6.62E+01	2.51E+04	1.23E+05	1.21E+05	4.25E+04	2.77E+04	1.63E-07
Rn-222+D	1.06E+01	1.96E+00	1.94E+00	5.58E+00	8.91E+00	1.42E+00	6.62E+01	4.59E+00	2.48E+01	2.50E+01	8.71E+00	5.45E+00	2.99E-11
Rn-222+E	1.06E+01	2.01E+00	1.94E+00	5.58E+00	8.93E+00	-	6.62E+01	-	-	-	-	-	-
Ru-103	2.57E+00	5.24E-01	5.32E-01	1.51E+00	2.33E+00	1.26E+00	6.44E+00	2.07E+00	1.02E+01	1.00E+01	3.53E+00	2.29E+00	6.44E-11
Ru-105	4.40E+00	9.13E-01	8.88E-01	2.54E+00	3.94E+00	1.27E+00	1.37E+03	2.55E+02	1.23E+03	1.26E+03	4.43E+02	2.85E+02	3.80E-11
Ru-105+D	4.79E+00	9.99E-01	9.75E-01	2.78E+00	4.31E+00	1.02E+00	1.37E+03	2.92E+02	1.40E+03	1.43E+03	5.03E+02	3.24E+02	4.35E-11
Ru-106	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.87E-01	-	-	-	-	-	-
Ru-106+D	1.24E+00	4.03E-01	2.78E-01	7.29E-01	1.11E+00	1.26E+00	6.87E-01	9.20E-01	2.84E+00	4.12E+00	1.57E+00	1.03E+00	2.75E-10
Ru-106+E	1.24E+00	4.03E-01	2.78E-01	7.29E-01	1.11E+00	-	6.87E-01	-	-	-	-	-	-
Ru-94	2.89E+00	5.84E-01	5.87E-01	1.68E+00	2.59E+00	1.65E+00	7.03E+03	1.54E+03	7.62E+03	7.57E+03	2.64E+03	1.71E+03	3.99E-11
Ru-97	1.09E+00	2.52E-01	2.54E-01	7.14E-01	1.04E+00	1.53E+00	8.72E+01	5.44E+01	2.36E+02	2.34E+02	8.32E+01	5.70E+01	1.17E-10
S-35	1.22E-05	1.55E-05	6.96E-06	1.13E-05	1.22E-05	1.31E+00	2.89E+00	2.00E+05	1.57E+05	3.50E+05	2.15E+05	2.00E+05	4.69E-06

Output generated 06JUL2010:04:50:47

Default

Resident Building Dose Compliance Concentrations for 3-D Direct External Exposure

Radionuclide	External Exposure DCF (Infinite Volume) (mrem/yr per pCi/g)	External Exposure DCF (Ground Plane) (mrem/yr per pCi/cm^2)	External Exposure DCF (1 cm) (mrem/yr per pCi/g)	External Exposure DCF (5 cm) (mrem/yr per pCi/g)	External Exposure DCF (15 cm) (mrem/yr per pCi/g)	F_{surf}	Lambda	Resident 3-D External BDCC (infinite depth) (pCi/g)	Resident 3-D External BDCC (ground plane) (pCi/cm^2)	Resident 3-D External BDCC (1 cm) (pCi/g)	Resident 3-D External BDCC (5 cm) (pCi/g)	Resident 3-D External BDCC (15 cm) (pCi/g)	Resident 3-D External BDCC (mass) (mg/kg)
Sb-115	4.94E+00	1.04E+00	1.02E+00	2.91E+00	4.48E+00	1.27E+00	1.15E+04	1.90E+03	9.03E+03	9.22E+03	3.23E+03	2.10E+03	3.71E-11
Sb-116	1.30E+01	2.37E+00	2.37E+00	6.84E+00	1.10E+01	1.23E+00	2.31E+04	1.50E+03	8.25E+03	8.25E+03	2.86E+03	1.78E+03	1.46E-11
Sb-116m	1.83E+01	3.42E+00	3.47E+00	9.94E+00	1.58E+01	1.23E+00	6.04E+03	2.79E+02	1.50E+03	1.48E+03	5.15E+02	3.25E+02	1.04E-11
Sb-117	7.35E-01	1.93E-01	1.83E-01	4.98E-01	7.05E-01	1.43E+00	2.17E+03	2.15E+03	8.21E+03	8.66E+03	3.18E+03	2.24E+03	2.25E-10
Sb-118m	1.51E+01	2.79E+00	2.82E+00	8.11E+00	1.29E+01	1.23E+00	1.21E+03	6.81E+01	3.69E+02	3.66E+02	1.27E+02	7.95E+01	1.28E-11
Sb-119	4.48E-03	1.82E-02	4.35E-03	4.49E-03	4.48E-03	1.61E+00	1.59E+02	2.31E+04	5.67E+03	2.38E+04	2.30E+04	2.31E+04	3.34E-08
Sb-120	2.44E+00	5.45E-01	5.07E-01	1.43E+00	2.20E+00	1.34E+00	2.29E+04	7.30E+03	3.27E+04	3.52E+04	1.24E+04	8.11E+03	7.42E-11
Sb-120m	1.43E+01	2.66E+00	2.70E+00	7.74E+00	1.23E+01	1.24E+00	4.39E+01	2.59E+00	1.39E+01	1.37E+01	4.77E+00	3.01E+00	1.37E-11
Sb-122	2.48E+00	5.66E-01	5.07E-01	1.44E+00	2.22E+00	1.26E+00	9.37E+01	3.13E+01	1.37E+02	1.53E+02	5.40E+01	3.49E+01	7.90E-11
Sb-124	1.11E+01	1.98E+00	2.00E+00	5.78E+00	9.33E+00	1.25E+00	4.20E+00	3.22E-01	1.79E+00	1.78E+00	6.16E-01	3.82E-01	1.84E-11
Sb-124m	1.98E+00	4.01E-01	3.99E-01	1.14E+00	1.77E+00	1.26E+00	2.35E+05	9.84E+04	4.84E+05	4.87E+05	1.71E+05	1.10E+05	1.01E-10
Sb-124n	1.37E-05	5.92E-05	1.34E-05	1.38E-05	1.37E-05	1.65E+00	1.80E+04	8.31E+08	1.93E+08	8.50E+08	8.28E+08	8.31E+08	1.11E-05
Sb-125	2.28E+00	4.77E-01	4.74E-01	1.34E+00	2.07E+00	1.26E+00	2.50E-01	4.11E-01	1.96E+00	1.97E+00	6.96E-01	4.52E-01	3.99E-10
Sb-126	1.60E+01	3.17E+00	3.21E+00	9.14E+00	1.43E+01	1.25E+00	2.04E+01	1.06E+00	5.36E+00	5.31E+00	1.86E+00	1.19E+00	1.27E-11
Sb-126m	8.71E+00	1.81E+00	1.76E+00	5.02E+00	7.80E+00	1.25E+00	1.92E+04	1.84E+03	8.84E+03	9.09E+03	3.19E+03	2.05E+03	2.34E-11
Sb-127	3.86E+00	7.89E-01	7.76E-01	2.22E+00	3.45E+00	1.26E+00	6.57E+01	1.41E+01	6.89E+01	7.01E+01	2.45E+01	1.58E+01	5.28E-11
Sb-128	1.76E+01	3.48E+00	3.49E+00	9.98E+00	1.56E+01	1.26E+00	6.74E+02	3.16E+01	1.60E+02	1.60E+02	5.59E+01	3.58E+01	1.17E-11
Sb-128m	1.13E+01	2.32E+00	2.26E+00	6.43E+00	1.00E+01	1.25E+00	3.50E+04	2.59E+03	1.26E+04	1.29E+04	4.54E+03	2.91E+03	1.83E-11
Sb-129	8.54E+00	1.60E+00	1.60E+00	4.61E+00	7.33E+00	1.26E+00	1.41E+03	1.36E+02	7.27E+02	7.27E+02	2.52E+02	1.59E+02	2.43E-11
Sb-130	1.88E+01	3.66E+00	3.66E+00	1.05E+01	1.64E+01	1.25E+00	9.11E+03	4.03E+02	2.07E+03	2.08E+03	7.26E+02	4.62E+02	1.12E-11
Sb-131	1.13E+01	2.07E+00	2.05E+00	5.93E+00	9.55E+00	1.24E+00	1.58E+04	1.18E+03	6.45E+03	6.49E+03	2.25E+03	1.39E+03	1.89E-11
Sc-43	5.95E+00	1.25E+00	1.24E+00	3.54E+00	5.43E+00	1.26E+00	1.56E+03	2.17E+02	1.03E+03	1.04E+03	3.64E+02	2.38E+02	1.16E-11
Sc-44	1.24E+01	2.43E+00	2.39E+00	6.86E+00	1.08E+01	1.25E+00	1.55E+03	1.04E+02	5.31E+02	5.40E+02	1.88E+02	1.19E+02	5.73E-12
Sc-44m	1.44E+00	3.06E-01	3.13E-01	8.93E-01	1.34E+00	1.27E+00	1.04E+02	5.89E+01	2.78E+02	2.72E+02	9.52E+01	6.34E+01	4.86E-11
Sc-46	1.20E+01	2.19E+00	2.24E+00	6.43E+00	1.03E+01	1.24E+00	3.02E+00	2.23E-01	1.22E+00	1.19E+00	4.15E-01	2.60E-01	6.59E-12
Sc-47	4.61E-01	1.16E-01	1.18E-01	3.25E-01	4.51E-01	1.31E+00	7.55E+01	1.30E+02	5.16E+02	5.10E+02	1.85E+02	1.33E+02	1.58E-10
Sc-48	2.03E+01	3.63E+00	3.69E+00	1.07E+01	1.72E+01	1.23E+00	1.39E+02	5.79E+00	3.25E+01	3.19E+01	1.10E+01	6.86E+00	3.88E-12
Sc-49	3.60E-02	1.19E-01	1.88E-02	2.74E-02	3.39E-02	1.20E+00	6.35E+03	1.53E+05	4.63E+04	2.93E+05	2.01E+05	1.62E+05	2.30E-09
Se-70	5.32E+00	1.16E+00	1.12E+00	3.17E+00	4.83E+00	2.09E+00	8.88E+03	8.34E+02	3.81E+03	3.96E+03	1.40E+03	9.18E+02	1.28E-11

Output generated 06JUL2010:04:50:47

Default

Resident Building Dose Compliance Concentrations for 3-D Direct External Exposure

Radionuclide	External Exposure DCF (Infinite Volume) (mrem/yr per pCi/g)	External Exposure DCF (Ground Plane) (mrem/yr per pCi/cm^2)	External Exposure DCF (1 cm) (mrem/yr per pCi/g)	External Exposure DCF (5 cm) (mrem/yr per pCi/g)	External Exposure DCF (15 cm) (mrem/yr per pCi/g)	F_{surf}	Lambda	Resident 3-D External BDCC (infinite depth) (pCi/g)	Resident 3-D External BDCC (ground plane) (pCi/cm^2)	Resident 3-D External BDCC (1 cm) (pCi/g)	Resident 3-D External BDCC (5 cm) (pCi/g)	Resident 3-D External BDCC (15 cm) (pCi/g)	Resident 3-D External BDCC (mass) (mg/kg)
Se-73	5.69E+00	1.25E+00	1.22E+00	3.43E+00	5.22E+00	1.70E+00	8.49E+02	9.16E+01	4.17E+02	4.27E+02	1.52E+02	9.97E+01	1.53E-11
Se-73m	1.33E+00	2.94E-01	2.78E-01	7.87E-01	1.21E+00	2.48E+00	9.34E+03	2.95E+03	1.34E+04	1.41E+04	4.99E+03	3.24E+03	4.47E-11
Se-75	1.83E+00	4.21E-01	4.29E-01	1.20E+00	1.75E+00	1.57E+00	2.11E+00	8.73E-01	3.79E+00	3.72E+00	1.32E+00	9.14E-01	6.02E-11
Se-77m	3.64E-01	9.07E-02	9.23E-02	2.54E-01	3.54E-01	3.60E+00	1.25E+06	9.98E+05	4.00E+06	3.93E+06	1.43E+06	1.02E+06	1.19E-10
Se-79	1.53E-05	1.91E-05	8.69E-06	1.42E-05	1.53E-05	1.31E+00	1.07E-05	5.21E+04	4.16E+04	9.16E+04	5.61E+04	5.21E+04	7.49E-01
Se-81	6.53E-02	9.50E-02	2.00E-02	4.27E-02	6.06E-02	1.26E+00	1.97E+04	2.50E+05	1.72E+05	8.17E+05	3.82E+05	2.69E+05	1.99E-09
Se-81m	4.57E-02	1.47E-02	1.40E-02	3.56E-02	4.57E-02	3.68E+00	6.36E+03	3.95E+04	1.23E+05	1.29E+05	5.06E+04	3.95E+04	9.75E-10
Se-83	1.44E+01	2.67E+00	2.69E+00	7.74E+00	1.23E+01	1.26E+00	1.62E+04	9.31E+02	5.01E+03	4.99E+03	1.73E+03	1.09E+03	9.26E-12
Si-31	1.98E-02	8.33E-02	9.62E-03	1.47E-02	1.85E-02	1.22E+00	2.32E+03	1.00E+05	2.38E+04	2.06E+05	1.35E+05	1.07E+05	2.60E-09
Si-32	2.97E-05	2.92E-05	1.51E-05	2.67E-05	2.97E-05	1.31E+00	1.54E-03	2.69E+04	2.73E+04	5.29E+04	2.99E+04	2.69E+04	1.08E-03
Si-32+D	2.04E-02	-	-	-	-	1.31E+00	1.54E-03	3.91E+01	-	-	-	-	1.58E-06
Si-32+E	2.03E-02	9.94E-02	1.24E-02	1.69E-02	1.98E-02	-	1.54E-03	-	-	-	-	-	-
Sm-141	8.00E+00	1.62E+00	1.58E+00	4.49E+00	7.03E+00	1.24E+00	3.57E+04	3.75E+03	1.85E+04	1.90E+04	6.68E+03	4.27E+03	2.88E-11
Sm-141m	1.13E+01	2.21E+00	2.20E+00	6.29E+00	9.87E+00	1.26E+00	1.61E+04	1.18E+03	6.05E+03	6.06E+03	2.12E+03	1.35E+03	2.00E-11
Sm-142	3.79E-01	1.04E-01	8.84E-02	2.29E-01	3.43E-01	1.36E+00	5.02E+03	1.02E+04	3.69E+04	4.36E+04	1.68E+04	1.12E+04	5.58E-10
Sm-145	5.43E-02	6.49E-02	3.60E-02	5.32E-02	5.43E-02	1.41E+00	7.44E-01	1.93E+01	1.62E+01	2.91E+01	1.97E+01	1.93E+01	7.31E-09
Sm-146	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.73E-09	-	-	-	-	-	-
Sm-147	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.54E-12	-	-	-	-	-	-
Sm-151	6.75E-07	4.13E-06	6.68E-07	6.75E-07	6.75E-07	1.84E+00	7.70E-03	8.43E+05	1.38E+05	8.52E+05	8.43E+05	8.43E+05	3.21E-02
Sm-153	1.39E-01	7.12E-02	5.17E-02	1.13E-01	1.39E-01	1.33E+00	1.30E+02	7.32E+02	1.43E+03	1.97E+03	8.99E+02	7.36E+02	1.67E-09
Sm-155	3.66E-01	1.82E-01	1.12E-01	2.76E-01	3.60E-01	1.31E+00	1.65E+04	3.59E+04	7.21E+04	1.17E+05	4.75E+04	3.65E+04	6.55E-10
Sm-156	4.83E-01	1.31E-01	1.25E-01	3.36E-01	4.68E-01	1.30E+00	6.46E+02	1.07E+03	3.96E+03	4.15E+03	1.54E+03	1.11E+03	5.03E-10
Sn-110	1.43E+00	3.23E-01	3.21E-01	9.08E-01	1.35E+00	1.41E+00	1.52E+03	7.87E+02	3.47E+03	3.50E+03	1.24E+03	8.32E+02	1.11E-10
Sn-111	2.87E+00	5.85E-01	5.61E-01	1.60E+00	2.50E+00	1.16E+00	1.03E+04	3.23E+03	1.59E+04	1.65E+04	5.80E+03	3.71E+03	6.74E-11
Sn-113	2.65E-02	1.90E-02	8.39E-03	1.82E-02	2.54E-02	1.64E+00	2.20E+00	5.94E+01	8.26E+01	1.87E+02	8.63E+01	6.20E+01	5.92E-09
Sn-117m	5.97E-01	1.63E-01	1.56E-01	4.21E-01	5.86E-01	1.42E+00	1.86E+01	2.29E+01	8.35E+01	8.75E+01	3.24E+01	2.33E+01	2.79E-10
Sn-119m	2.09E-03	8.72E-03	2.03E-03	2.11E-03	2.09E-03	1.62E+00	8.63E-01	4.60E+02	1.10E+02	4.73E+02	4.56E+02	4.60E+02	1.23E-07
Sn-121	1.71E-04	1.03E-04	6.79E-05	1.41E-04	1.70E-04	1.31E+00	2.24E+02	1.04E+06	1.73E+06	2.63E+06	1.26E+06	1.05E+06	1.09E-06
Sn-121m	1.43E-03	4.20E-03	1.27E-03	1.42E-03	1.43E-03	1.53E+00	1.26E-02	4.80E+02	1.63E+02	5.41E+02	4.81E+02	4.80E+02	8.94E-06

Output generated 06JUL2010:04:50:47

Default

Resident Building Dose Compliance Concentrations for 3-D Direct External Exposure

Radionuclide	External Exposure DCF (Infinite Volume) (mrem/yr per pCi/g)	External Exposure DCF (Ground Plane) (mrem/yr per pCi/cm^2)	External Exposure DCF (1 cm) (mrem/yr per pCi/g)	External Exposure DCF (5 cm) (mrem/yr per pCi/g)	External Exposure DCF (15 cm) (mrem/yr per pCi/g)	F_{surf}	Lambda	Resident 3-D External BDCC (infinite depth) (pCi/g)	Resident 3-D External BDCC (ground plane) (pCi/cm^2)	Resident 3-D External BDCC (1 cm) (pCi/g)	Resident 3-D External BDCC (5 cm) (pCi/g)	Resident 3-D External BDCC (15 cm) (pCi/g)	Resident 3-D External BDCC (mass) (mg/kg)
Sn-121m+D	1.56E-03	4.28E-03	1.32E-03	1.53E-03	1.56E-03	-	1.26E-02	-	-	-	-	-	-
Sn-121m+E	1.56E-03	4.28E-03	1.32E-03	1.53E-03	1.56E-03	-	1.26E-02	-	-	-	-	-	-
Sn-123	5.30E-02	7.59E-02	1.46E-02	3.15E-02	4.64E-02	1.23E+00	1.96E+00	3.65E+01	2.55E+01	1.33E+02	6.13E+01	4.16E+01	4.45E-09
Sn-123m	5.91E-01	2.02E-01	1.54E-01	4.16E-01	5.78E-01	1.33E+00	9.09E+03	1.21E+04	3.53E+04	4.63E+04	1.71E+04	1.23E+04	3.17E-10
Sn-125	1.92E+00	4.46E-01	3.66E-01	1.02E+00	1.63E+00	1.24E+00	2.62E+01	1.15E+01	4.95E+01	6.04E+01	2.16E+01	1.35E+01	1.06E-10
Sn-126	1.30E-01	5.62E-02	4.74E-02	1.09E-01	1.30E-01	1.40E+00	6.93E-06	5.74E+00	1.32E+01	1.57E+01	6.86E+00	5.73E+00	2.02E-04
Sn-126+D	8.84E+00	1.87E+00	1.81E+00	5.13E+00	7.93E+00	1.24E+00	6.93E-06	9.51E-02	4.50E-01	4.66E-01	1.64E-01	1.06E-01	3.36E-06
Sn-126+E	1.11E+01	2.31E+00	2.26E+00	6.42E+00	9.92E+00	-	6.93E-06	-	-	-	-	-	-
Sn-127	1.15E+01	2.10E+00	2.11E+00	6.08E+00	9.74E+00	1.31E+00	2.89E+03	2.00E+02	1.10E+03	1.09E+03	3.79E+02	2.36E+02	1.70E-11
Sn-128	3.30E+00	7.29E-01	7.03E-01	1.98E+00	3.00E+00	1.27E+00	6.16E+03	1.53E+03	6.94E+03	7.20E+03	2.56E+03	1.69E+03	6.18E-11
Sr-80	9.94E-05	1.87E-03	9.94E-05	9.94E-05	9.94E-05	3.17E+00	3.64E+03	1.21E+07	6.42E+05	1.21E+07	1.21E+07	1.21E+07	5.14E-07
Sr-81	7.53E+00	1.67E+00	1.59E+00	4.48E+00	6.83E+00	1.26E+00	1.43E+04	1.57E+03	7.08E+03	7.45E+03	2.64E+03	1.73E+03	1.73E-11
Sr-82	9.77E-05	1.83E-03	9.77E-05	9.77E-05	9.77E-05	3.17E+00	1.01E+01	3.41E+04	1.82E+03	3.41E+04	3.41E+04	3.41E+04	5.36E-07
Sr-82+D	6.12E+00	1.40E+00	1.28E+00	3.60E+00	5.54E+00	1.25E+00	1.01E+01	1.38E+00	6.03E+00	6.57E+00	2.35E+00	1.52E+00	2.17E-11
Sr-82+E	6.12E+00	1.40E+00	1.28E+00	3.60E+00	5.54E+00	-	1.01E+01	-	-	-	-	-	-
Sr-83	4.49E+00	8.88E-01	8.88E-01	2.54E+00	3.97E+00	1.44E+00	1.87E+02	3.02E+01	1.53E+02	1.53E+02	5.35E+01	3.42E+01	2.59E-11
Sr-85	2.76E+00	5.65E-01	5.71E-01	1.63E+00	2.50E+00	2.59E+00	3.90E+00	5.81E-01	2.84E+00	2.81E+00	9.85E-01	6.41E-01	2.46E-11
Sr-85m	1.04E+00	2.36E-01	2.42E-01	6.86E-01	9.98E-01	1.29E+00	5.24E+03	4.08E+03	1.80E+04	1.75E+04	6.17E+03	4.25E+03	1.28E-10
Sr-87m	1.68E+00	3.55E-01	3.60E-01	1.03E+00	1.56E+00	1.43E+00	2.16E+03	9.37E+02	4.45E+03	4.38E+03	1.54E+03	1.01E+03	7.31E-11
Sr-89	1.51E-02	8.01E-02	8.97E-03	1.24E-02	1.47E-02	1.24E+00	5.01E+00	2.81E+02	5.30E+01	4.73E+02	3.41E+02	2.89E+02	9.69E-09
Sr-90	6.45E-04	1.91E-03	2.35E-04	5.07E-04	6.36E-04	1.31E+00	2.38E-02	1.25E+03	4.21E+02	3.43E+03	1.59E+03	1.27E+03	9.16E-06
Sr-90+D	4.07E-02	1.31E-01	2.37E-02	3.30E-02	3.94E-02	2.36E+00	2.38E-02	1.10E+01	3.42E+00	1.89E+01	1.35E+01	1.14E+01	8.07E-08
Sr-90+E	4.07E-02	1.31E-01	2.37E-02	3.30E-02	3.94E-02	-	2.38E-02	-	-	-	-	-	-
Sr-91	4.12E+00	8.48E-01	7.91E-01	2.26E+00	3.58E+00	1.25E+00	6.39E+02	1.29E+02	6.28E+02	6.74E+02	2.36E+02	1.49E+02	3.57E-11
Sr-92	8.30E+00	1.44E+00	1.46E+00	4.25E+00	6.90E+00	1.22E+00	2.24E+03	2.31E+02	1.33E+03	1.31E+03	4.50E+02	2.77E+02	1.84E-11
Ta-172	8.78E+00	1.74E+00	1.71E+00	4.85E+00	7.61E+00	1.29E+00	9.90E+03	9.11E+02	4.60E+03	4.68E+03	1.65E+03	1.05E+03	3.07E-11
Ta-173	2.98E+00	6.71E-01	6.34E-01	1.75E+00	2.67E+00	1.31E+00	1.66E+03	4.44E+02	1.97E+03	2.09E+03	7.57E+02	4.96E+02	8.96E-11
Ta-174	3.21E+00	7.18E-01	6.86E-01	1.90E+00	2.89E+00	1.24E+00	5.06E+03	1.33E+03	5.93E+03	6.20E+03	2.24E+03	1.47E+03	8.85E-11
Ta-175	5.18E+00	9.91E-01	9.96E-01	2.82E+00	4.42E+00	1.31E+00	5.78E+02	8.88E+01	4.65E+02	4.62E+02	1.63E+02	1.04E+02	5.21E-11

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Resident Building Dose Compliance Concentrations for 3-D Direct External Exposure

Radionuclide	External Exposure DCF (Infinite Volume) (mrem/yr per pCi/g)	External Exposure DCF (Ground Plane) (mrem/yr per pCi/cm^2)	External Exposure DCF (1 cm) (mrem/yr per pCi/g)	External Exposure DCF (5 cm) (mrem/yr per pCi/g)	External Exposure DCF (15 cm) (mrem/yr per pCi/g)	F_{surf}	Lambda	Resident 3-D External BDCC (infinite depth) (pCi/g)	Resident 3-D External BDCC (ground plane) (pCi/cm^2)	Resident 3-D External BDCC (1 cm) (pCi/g)	Resident 3-D External BDCC (5 cm) (pCi/g)	Resident 3-D External BDCC (15 cm) (pCi/g)	Resident 3-D External BDCC (mass) (mg/kg)
Ta-176	1.32E+01	2.25E+00	2.29E+00	6.64E+00	1.08E+01	1.38E+00	7.51E+02	4.31E+01	2.52E+02	2.48E+02	8.55E+01	5.25E+01	1.96E-11
Ta-177	1.57E-01	6.85E-02	5.73E-02	1.23E-01	1.51E-01	1.37E+00	1.07E+02	5.20E+02	1.19E+03	1.43E+03	6.63E+02	5.41E+02	1.66E-09
Ta-178	4.16E-01	1.12E-01	1.02E-01	2.52E-01	3.62E-01	1.28E+00	3.91E+04	7.66E+04	2.84E+05	3.13E+05	1.27E+05	8.81E+04	6.77E-10
Ta-178m	4.79E+00	1.11E+00	1.11E+00	3.06E+00	4.49E+00	1.28E+00	2.76E+03	4.69E+02	2.02E+03	2.02E+03	7.35E+02	5.00E+02	5.87E-11
Ta-179	4.87E-02	3.21E-02	2.48E-02	4.57E-02	4.87E-02	1.83E+00	3.80E-01	1.41E+01	2.13E+01	2.76E+01	1.50E+01	1.41E+01	1.29E-08
Ta-180	2.57E+00	6.05E-01	6.04E-01	1.67E+00	2.44E+00	1.28E+00	6.93E-14	3.17E-01	1.35E+00	1.35E+00	4.87E-01	3.34E-01	1.60E+03
Ta-180m	8.17E-02	4.94E-02	3.86E-02	7.46E-02	8.17E-02	1.35E+00	7.49E+02	7.09E+03	1.17E+04	1.50E+04	7.76E+03	7.09E+03	3.30E-09
Ta-182	7.50E+00	1.40E+00	1.41E+00	4.03E+00	6.40E+00	1.30E+00	2.20E+00	2.65E-01	1.42E+00	1.41E+00	4.93E-01	3.10E-01	4.25E-11
Ta-182m	9.42E-01	2.63E-01	2.56E-01	6.70E-01	9.18E-01	1.30E+00	2.30E+04	1.96E+04	7.03E+04	7.22E+04	2.76E+04	2.01E+04	3.01E-10
Ta-183	1.20E+00	3.13E-01	3.04E-01	8.11E-01	1.15E+00	1.31E+00	4.96E+01	3.30E+01	1.26E+02	1.30E+02	4.87E+01	3.45E+01	2.36E-10
Ta-184	8.80E+00	1.81E+00	1.80E+00	5.13E+00	7.89E+00	1.29E+00	6.98E+02	6.41E+01	3.12E+02	3.13E+02	1.10E+02	7.15E+01	3.28E-11
Ta-185	7.98E-01	2.92E-01	2.09E-01	5.39E-01	7.57E-01	1.30E+00	7.43E+03	7.47E+03	2.04E+04	2.85E+04	1.11E+04	7.88E+03	3.61E-10
Ta-186	8.43E+00	1.84E+00	1.76E+00	4.98E+00	7.61E+00	1.29E+00	3.47E+04	3.33E+03	1.52E+04	1.59E+04	5.63E+03	3.69E+03	3.46E-11
Tb-147	9.12E+00	1.81E+00	1.78E+00	5.05E+00	7.96E+00	1.24E+00	3.68E+03	3.39E+02	1.71E+03	1.74E+03	6.12E+02	3.89E+02	2.63E-11
Tb-149	9.47E+00	1.75E+00	1.77E+00	5.07E+00	8.08E+00	1.25E+00	1.46E+03	1.29E+02	6.97E+02	6.91E+02	2.41E+02	1.51E+02	2.55E-11
Tb-150	9.75E+00	1.89E+00	1.88E+00	5.35E+00	8.45E+00	1.25E+00	1.86E+03	1.59E+02	8.19E+02	8.22E+02	2.89E+02	1.83E+02	2.49E-11
Tb-151	4.59E+00	9.78E-01	9.72E-01	2.72E+00	4.16E+00	1.27E+00	3.45E+02	6.17E+01	2.90E+02	2.91E+02	1.04E+02	6.81E+01	5.24E-11
Tb-153	9.18E-01	2.44E-01	2.28E-01	5.97E-01	8.56E-01	1.31E+00	1.08E+02	9.38E+01	3.53E+02	3.78E+02	1.44E+02	1.01E+02	2.58E-10
Tb-154	1.47E+01	2.43E+00	2.50E+00	7.24E+00	1.19E+01	1.26E+00	2.84E+02	1.60E+01	9.67E+01	9.39E+01	3.24E+01	1.98E+01	1.69E-11
Tb-155	4.20E-01	1.46E-01	1.27E-01	3.08E-01	4.08E-01	1.32E+00	4.75E+01	8.95E+01	2.58E+02	2.95E+02	1.22E+02	9.20E+01	5.66E-10
Tb-156	1.04E+01	1.97E+00	2.00E+00	5.69E+00	8.99E+00	1.26E+00	4.74E+01	3.75E+00	1.99E+01	1.96E+01	6.89E+00	4.36E+00	2.40E-11
Tb-156m	2.97E-02	2.58E-02	1.76E-02	2.89E-02	2.97E-02	1.38E+00	2.49E+02	6.34E+03	7.29E+03	1.07E+04	6.50E+03	6.34E+03	7.71E-09
Tb-156n	5.46E-03	3.68E-03	2.63E-03	4.90E-03	5.46E-03	1.37E+00	1.21E+03	1.69E+05	2.51E+05	3.51E+05	1.88E+05	1.69E+05	4.22E-08
Tb-157	2.31E-03	2.57E-03	1.53E-03	2.28E-03	2.31E-03	1.39E+00	4.62E-03	3.25E+02	2.93E+02	4.92E+02	3.31E+02	3.25E+02	2.14E-05
Tb-158	4.46E+00	8.74E-01	8.67E-01	2.46E+00	3.86E+00	1.24E+00	4.62E-03	1.89E-01	9.64E-01	9.72E-01	3.42E-01	2.18E-01	1.25E-08
Tb-160	6.53E+00	1.24E+00	1.24E+00	3.56E+00	5.63E+00	1.25E+00	3.50E+00	4.61E-01	2.43E+00	2.42E+00	8.45E-01	5.34E-01	4.09E-11
Tb-161	4.64E-02	3.44E-02	2.29E-02	4.20E-02	4.61E-02	1.38E+00	3.66E+01	5.96E+02	8.04E+02	1.21E+03	6.59E+02	6.01E+02	5.08E-09
Tc-101	1.73E+00	4.26E-01	3.80E-01	1.08E+00	1.62E+00	1.27E+00	2.57E+04	1.22E+04	4.94E+04	5.54E+04	1.95E+04	1.30E+04	9.30E-11
Tc-104	1.22E+01	2.28E+00	2.22E+00	6.34E+00	1.02E+01	1.27E+00	2.00E+04	1.35E+03	7.22E+03	7.40E+03	2.59E+03	1.61E+03	1.36E-11

Output generated 06JUL2010:04:50:47

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Resident Building Dose Compliance Concentrations for 3-D Direct External Exposure

Radionuclide	External Exposure DCF (Infinite Volume) (mrem/yr per pCi/g)	External Exposure DCF (Ground Plane) (mrem/yr per pCi/cm^2)	External Exposure DCF (1 cm) (mrem/yr per pCi/g)	External Exposure DCF (5 cm) (mrem/yr per pCi/g)	External Exposure DCF (15 cm) (mrem/yr per pCi/g)	F_{surf}	Lambda	Resident 3-D External BDCC (infinite depth) (pCi/g)	Resident 3-D External BDCC (ground plane) (pCi/cm^2)	Resident 3-D External BDCC (1 cm) (pCi/g)	Resident 3-D External BDCC (5 cm) (pCi/g)	Resident 3-D External BDCC (15 cm) (pCi/g)	Resident 3-D External BDCC (mass) (mg/kg)
Tc-93	9.06E+00	1.54E+00	1.58E+00	4.59E+00	7.48E+00	1.40E+00	2.21E+03	1.81E+02	1.07E+03	1.04E+03	3.58E+02	2.20E+02	1.48E-11
Tc-93m	4.49E+00	7.35E-01	7.65E-01	2.24E+00	3.66E+00	1.27E+00	8.37E+03	1.53E+03	9.35E+03	8.99E+03	3.07E+03	1.88E+03	3.30E-11
Tc-94	1.54E+01	2.95E+00	2.98E+00	8.56E+00	1.35E+01	1.23E+00	1.24E+03	6.84E+01	3.57E+02	3.53E+02	1.23E+02	7.82E+01	1.00E-11
Tc-94m	1.09E+01	2.12E+00	2.09E+00	5.95E+00	9.42E+00	1.21E+00	7.00E+03	5.55E+02	2.84E+03	2.89E+03	1.01E+03	6.41E+02	1.45E-11
Tc-95	4.53E+00	8.75E-01	8.82E-01	2.54E+00	3.97E+00	1.22E+00	3.04E+02	5.73E+01	2.96E+02	2.94E+02	1.02E+02	6.53E+01	3.48E-11
Tc-95m	3.67E+00	7.38E-01	7.44E-01	2.13E+00	3.28E+00	1.25E+00	4.15E+00	9.57E-01	4.77E+00	4.72E+00	1.65E+00	1.07E+00	4.25E-11
Tc-96	1.45E+01	2.77E+00	2.80E+00	8.02E+00	1.27E+01	1.24E+00	5.91E+01	3.43E+00	1.80E+01	1.78E+01	6.20E+00	3.92E+00	1.08E-11
Tc-96m	2.65E-01	5.25E-02	5.04E-02	1.44E-01	2.28E-01	1.55E+00	7.07E+03	1.80E+04	9.06E+04	9.45E+04	3.31E+04	2.09E+04	4.73E-10
Tc-97	5.63E-04	5.43E-03	5.67E-04	5.63E-04	5.63E-04	2.17E+00	2.67E-07	8.53E+02	8.86E+01	8.48E+02	8.53E+02	8.53E+02	6.03E-01
Tc-97m	1.53E-03	5.19E-03	8.82E-04	1.34E-03	1.53E-03	2.06E+00	2.91E+00	1.02E+03	3.00E+02	1.76E+03	1.16E+03	1.02E+03	6.58E-08
Tc-98	8.06E+00	1.58E+00	1.59E+00	4.57E+00	7.14E+00	1.25E+00	1.65E-07	1.04E-01	5.30E-01	5.24E-01	1.83E-01	1.17E-01	1.19E-04
Tc-99	1.08E-04	7.55E-05	4.64E-05	9.21E-05	1.08E-04	1.31E+00	3.25E-06	7.36E+03	1.05E+04	1.71E+04	8.64E+03	7.38E+03	4.35E-01
Tc-99m	5.02E-01	1.33E-01	1.35E-01	3.64E-01	4.96E-01	1.38E+00	1.01E+03	1.52E+03	5.73E+03	5.66E+03	2.10E+03	1.54E+03	2.89E-10
Te-116	1.73E-01	7.07E-02	5.17E-02	1.24E-01	1.65E-01	1.50E+00	2.44E+03	9.81E+03	2.40E+04	3.28E+04	1.37E+04	1.03E+04	9.06E-10
Te-121	3.10E+00	6.38E-01	6.36E-01	1.81E+00	2.80E+00	1.27E+00	1.49E+01	3.95E+00	1.91E+01	1.92E+01	6.77E+00	4.37E+00	6.23E-11
Te-121m	9.90E-01	2.31E-01	2.28E-01	6.36E-01	9.34E-01	1.29E+00	1.64E+00	1.66E+00	7.13E+00	7.24E+00	2.59E+00	1.76E+00	2.38E-10
Te-123	4.63E-03	1.66E-02	4.42E-03	4.64E-03	4.63E-03	1.56E+00	6.93E-14	1.45E+02	4.04E+01	1.51E+02	1.44E+02	1.45E+02	4.98E+05
Te-123m	5.71E-01	1.54E-01	1.49E-01	4.03E-01	5.60E-01	1.38E+00	2.11E+00	3.18E+00	1.18E+01	1.22E+01	4.51E+00	3.25E+00	3.59E-10
Te-125m	1.11E-02	3.10E-02	9.59E-03	1.08E-02	1.11E-02	1.51E+00	4.36E+00	2.75E+02	9.83E+01	3.18E+02	2.82E+02	2.75E+02	1.53E-08
Te-127	2.67E-02	1.20E-02	5.91E-03	1.64E-02	2.46E-02	1.27E+00	6.49E+02	2.00E+04	4.44E+04	9.02E+04	3.25E+04	2.17E+04	7.59E-09
Te-127m	4.16E-03	9.99E-03	3.13E-03	3.84E-03	4.10E-03	1.48E+00	2.32E+00	4.36E+02	1.82E+02	5.79E+02	4.72E+02	4.42E+02	4.63E-08
Te-129	3.13E-01	1.33E-01	6.98E-02	1.87E-01	2.83E-01	1.26E+00	5.23E+03	1.38E+04	3.26E+04	6.21E+04	2.32E+04	1.53E+04	6.61E-10
Te-129m	1.75E-01	6.65E-02	3.84E-02	1.01E-01	1.56E-01	1.50E+00	7.53E+00	2.99E+01	7.87E+01	1.36E+02	5.16E+01	3.35E+01	9.93E-10
Te-131	2.24E+00	5.53E-01	4.77E-01	1.33E+00	2.01E+00	1.29E+00	1.46E+04	5.26E+03	2.13E+04	2.47E+04	8.85E+03	5.85E+03	9.18E-11
Te-131m	8.24E+00	1.56E+00	1.58E+00	4.53E+00	7.16E+00	1.36E+00	2.02E+02	1.88E+01	9.92E+01	9.81E+01	3.42E+01	2.17E+01	2.36E-11
Te-132	9.94E-01	2.47E-01	2.39E-01	6.60E-01	9.55E-01	1.33E+00	7.76E+01	6.12E+01	2.46E+02	2.55E+02	9.22E+01	6.37E+01	2.02E-10
Te-133	5.37E+00	1.12E+00	1.05E+00	3.00E+00	4.70E+00	1.23E+00	2.93E+04	4.62E+03	2.22E+04	2.36E+04	8.26E+03	5.28E+03	4.07E-11
Te-133m	1.36E+01	2.61E+00	2.57E+00	7.39E+00	1.17E+01	1.31E+00	6.57E+03	3.85E+02	2.00E+03	2.03E+03	7.09E+02	4.47E+02	1.51E-11
Te-134	4.76E+00	9.90E-01	9.87E-01	2.80E+00	4.29E+00	1.25E+00	8.71E+03	1.53E+03	7.35E+03	7.37E+03	2.60E+03	1.69E+03	4.56E-11

Output generated 06JUL2010:04:50:47

Default

Resident Building Dose Compliance Concentrations for 3-D Direct External Exposure

Radionuclide	External Exposure DCF (Infinite Volume) (mrem/yr per pCi/g)	External Exposure DCF (Ground Plane) (mrem/yr per pCi/cm^2)	External Exposure DCF (1 cm) (mrem/yr per pCi/g)	External Exposure DCF (5 cm) (mrem/yr per pCi/g)	External Exposure DCF (15 cm) (mrem/yr per pCi/g)	F_{surf}	Lambda	Resident 3-D External BDCC (infinite depth) (pCi/g)	Resident 3-D External BDCC (ground plane) (pCi/cm^2)	Resident 3-D External BDCC (1 cm) (pCi/g)	Resident 3-D External BDCC (5 cm) (pCi/g)	Resident 3-D External BDCC (15 cm) (pCi/g)	Resident 3-D External BDCC (mass) (mg/kg)
Test Isotope	-	-	-	-	-	-	-	-	-	-	-	-	-
Th-226	3.02E-02	8.46E-03	8.21E-03	2.18E-02	2.95E-02	1.58E+00	1.18E+04	2.58E+05	9.20E+05	9.48E+05	3.57E+05	2.64E+05	9.58E-09
Th-227	4.79E-01	1.14E-01	1.13E-01	3.15E-01	4.57E-01	1.71E+00	1.35E+01	1.72E+01	7.20E+01	7.27E+01	2.61E+01	1.80E+01	5.60E-10
Th-228	7.16E-03	2.49E-03	2.09E-03	5.32E-03	7.03E-03	2.26E+00	3.62E-01	7.68E+01	2.21E+02	2.63E+02	1.03E+02	7.82E+01	9.38E-08
Th-229	2.89E-01	9.21E-02	8.69E-02	2.20E-01	2.85E-01	1.61E+00	9.44E-05	2.24E+00	7.04E+00	7.45E+00	2.94E+00	2.27E+00	1.05E-05
Th-229+D	1.48E+00	-	-	-	-	1.78E+00	9.44E-05	3.96E-01	-	-	-	-	1.86E-06
Th-229+E	1.48E+00	4.04E-01	3.47E-01	9.38E-01	1.37E+00	-	9.44E-05	-	-	-	-	-	-
Th-230	1.07E-03	7.43E-04	3.84E-04	8.62E-04	1.06E-03	2.57E+00	9.00E-06	3.80E+02	5.46E+02	1.06E+03	4.71E+02	3.84E+02	1.88E-02
Th-231	3.21E-02	1.81E-02	1.16E-02	2.63E-02	3.19E-02	1.85E+00	2.38E+02	4.18E+03	7.41E+03	1.16E+04	5.10E+03	4.20E+03	7.88E-09
Th-232	4.55E-04	5.31E-04	1.87E-04	3.82E-04	4.51E-04	2.61E+00	4.93E-11	8.78E+02	7.52E+02	2.14E+03	1.05E+03	8.85E+02	8.01E+03
Th-232+D	-	-	-	-	-	-	-	-	-	-	-	-	-
Th-234	2.13E-02	8.74E-03	7.63E-03	1.77E-02	2.13E-02	1.51E+00	1.05E+01	3.41E+02	8.29E+02	9.50E+02	4.10E+02	3.41E+02	1.47E-08
Th-234+D	1.55E-01	1.41E-01	4.59E-02	9.96E-02	1.40E-01	1.61E+00	1.05E+01	4.38E+01	4.81E+01	1.48E+02	6.83E+01	4.84E+01	1.89E-09
Th-234+E	1.55E-01	1.41E-01	4.59E-02	9.96E-02	1.40E-01	-	1.05E+01	-	-	-	-	-	-
Ti-44	3.13E-01	1.38E-01	1.24E-01	2.74E-01	3.13E-01	1.34E+00	1.47E-02	2.50E+00	5.69E+00	6.30E+00	2.86E+00	2.50E+00	1.46E-08
Ti-44+D	1.27E+01	2.57E+00	2.52E+00	7.14E+00	1.12E+01	1.23E+00	1.47E-02	6.70E-02	3.33E-01	3.39E-01	1.20E-01	7.66E-02	3.91E-10
Ti-44+E	1.27E+01	2.57E+00	2.52E+00	7.14E+00	1.12E+01	-	1.47E-02	-	-	-	-	-	-
Ti-45	4.77E+00	1.01E+00	9.88E-01	2.82E+00	4.35E+00	1.26E+00	1.97E+03	3.42E+02	1.61E+03	1.65E+03	5.79E+02	3.75E+02	1.51E-11
Tl-194	4.08E+00	8.58E-01	8.63E-01	2.42E+00	3.71E+00	1.25E+00	1.10E+04	2.25E+03	1.07E+04	1.07E+04	3.80E+03	2.48E+03	7.69E-11
Tl-194m	1.26E+01	2.60E+00	2.61E+00	7.39E+00	1.14E+01	1.35E+00	1.11E+04	6.78E+02	3.30E+03	3.29E+03	1.16E+03	7.54E+02	2.30E-11
Tl-195	7.50E+00	1.35E+00	1.37E+00	3.94E+00	6.29E+00	1.59E+00	5.23E+03	4.58E+02	2.54E+03	2.50E+03	8.72E+02	5.46E+02	3.31E-11
Tl-197	2.07E+00	4.40E-01	4.38E-01	1.21E+00	1.83E+00	1.46E+00	2.14E+03	7.38E+02	3.47E+03	3.48E+03	1.26E+03	8.33E+02	1.32E-10
Tl-198	1.20E+01	2.12E+00	2.18E+00	6.27E+00	1.01E+01	1.77E+00	1.15E+03	5.61E+01	3.18E+02	3.09E+02	1.08E+02	6.70E+01	1.88E-11
Tl-198m	6.34E+00	1.32E+00	1.33E+00	3.77E+00	5.76E+00	2.60E+00	3.25E+03	2.05E+02	9.87E+02	9.78E+02	3.46E+02	2.26E+02	2.43E-11
Tl-199	1.08E+00	2.65E-01	2.61E-01	7.01E-01	1.01E+00	1.34E+00	8.18E+02	5.88E+02	2.40E+03	2.44E+03	9.08E+02	6.31E+02	2.77E-10
Tl-200	7.42E+00	1.42E+00	1.44E+00	4.12E+00	6.45E+00	1.79E+00	2.33E+02	1.83E+01	9.52E+01	9.40E+01	3.29E+01	2.10E+01	3.05E-11
Tl-201	2.44E-01	9.29E-02	8.54E-02	2.00E-01	2.42E-01	1.51E+00	8.31E+01	2.35E+02	6.18E+02	6.72E+02	2.88E+02	2.37E+02	1.10E-09
Tl-202	2.33E+00	5.13E-01	5.15E-01	1.43E+00	2.14E+00	1.27E+00	2.07E+01	7.29E+00	3.31E+01	3.30E+01	1.19E+01	7.92E+00	1.38E-10
Tl-204	3.88E-03	1.26E-02	1.65E-03	3.30E-03	3.86E-03	2.09E+00	1.83E-01	1.41E+02	4.33E+01	3.31E+02	1.65E+02	1.41E+02	3.04E-07

Output generated 06JUL2010:04:50:47

Default

Resident Building Dose Compliance Concentrations for 3-D Direct External Exposure

Radionuclide	External Exposure DCF (Infinite Volume) (mrem/yr per pCi/g)	External Exposure DCF (Ground Plane) (mrem/yr per pCi/cm^2)	External Exposure DCF (1 cm) (mrem/yr per pCi/g)	External Exposure DCF (5 cm) (mrem/yr per pCi/g)	External Exposure DCF (15 cm) (mrem/yr per pCi/g)	F_{surf}	Lambda	Resident 3-D External BDCC (infinite depth) (pCi/g)	Resident 3-D External BDCC (ground plane) (pCi/cm^2)	Resident 3-D External BDCC (1 cm) (pCi/g)	Resident 3-D External BDCC (5 cm) (pCi/g)	Resident 3-D External BDCC (15 cm) (pCi/g)	Resident 3-D External BDCC (mass) (mg/kg)
Tl-206	1.26E-02	7.08E-02	7.48E-03	1.04E-02	1.23E-02	1.74E+00	8.67E+04	4.12E+06	7.34E+05	6.95E+06	4.99E+06	4.24E+06	1.90E-08
Tl-207	2.29E-02	6.49E-02	8.47E-03	1.54E-02	2.11E-02	1.24E+00	7.64E+04	2.80E+06	9.90E+05	7.58E+06	4.16E+06	3.05E+06	1.47E-08
Tl-208	2.18E+01	3.47E+00	3.56E+00	1.04E+01	1.73E+01	1.26E+00	1.19E+05	4.50E+03	2.83E+04	2.76E+04	9.44E+03	5.67E+03	1.53E-11
Tl-209	1.22E+01	2.24E+00	2.22E+00	6.40E+00	1.03E+01	1.24E+00	1.66E+05	1.14E+04	6.21E+04	6.27E+04	2.18E+04	1.36E+04	2.79E-11
Tm-162	1.08E+01	1.90E+00	1.92E+00	5.52E+00	8.93E+00	1.26E+00	1.68E+04	1.29E+03	7.30E+03	7.23E+03	2.52E+03	1.56E+03	2.41E-11
Tm-166	1.12E+01	1.98E+00	2.01E+00	5.80E+00	9.33E+00	1.29E+00	7.88E+02	5.71E+01	3.21E+02	3.16E+02	1.10E+02	6.83E+01	2.33E-11
Tm-167	5.07E-01	1.53E-01	1.40E-01	3.52E-01	4.89E-01	1.31E+00	2.74E+01	4.30E+01	1.43E+02	1.56E+02	6.18E+01	4.46E+01	5.09E-10
Tm-170	1.41E-02	3.08E-02	6.17E-03	1.21E-02	1.40E-02	1.34E+00	1.97E+00	1.27E+02	5.78E+01	2.88E+02	1.47E+02	1.27E+02	2.12E-08
Tm-171	9.38E-04	6.48E-04	4.89E-04	8.86E-04	9.38E-04	1.36E+00	3.61E-01	9.74E+02	1.41E+03	1.87E+03	1.03E+03	9.74E+02	8.95E-07
Tm-172	2.91E+00	5.68E-01	5.26E-01	1.51E+00	2.42E+00	1.27E+00	9.55E+01	2.69E+01	1.38E+02	1.49E+02	5.21E+01	3.23E+01	9.42E-11
Tm-173	2.03E+00	4.53E-01	4.38E-01	1.24E+00	1.88E+00	1.27E+00	7.37E+02	2.98E+02	1.34E+03	1.38E+03	4.86E+02	3.21E+02	1.36E-10
Tm-175	5.99E+00	1.21E+00	1.18E+00	3.38E+00	5.26E+00	1.27E+00	2.40E+04	3.29E+03	1.62E+04	1.67E+04	5.83E+03	3.74E+03	4.66E-11
U-230	3.95E-03	1.81E-03	1.17E-03	2.91E-03	3.86E-03	2.24E+00	1.22E+01	1.43E+03	3.13E+03	4.83E+03	1.95E+03	1.47E+03	5.26E-08
U-231	2.07E-01	7.47E-02	6.64E-02	1.64E-01	2.07E-01	1.54E+00	6.02E+01	1.97E+02	5.46E+02	6.14E+02	2.49E+02	1.97E+02	1.47E-09
U-232	7.91E-04	9.42E-04	3.02E-04	6.30E-04	7.81E-04	2.42E+00	9.63E-03	5.48E+02	4.60E+02	1.43E+03	6.87E+02	5.54E+02	2.56E-05
U-233	1.26E-03	6.99E-04	3.64E-04	8.97E-04	1.22E-03	2.40E+00	4.37E-06	3.44E+02	6.22E+02	1.19E+03	4.84E+02	3.56E+02	3.56E-02
U-234	3.43E-04	6.84E-04	1.56E-04	2.89E-04	3.43E-04	2.44E+00	2.83E-06	1.25E+03	6.25E+02	2.74E+03	1.48E+03	1.25E+03	2.00E-01
U-235	6.58E-01	1.63E-01	1.65E-01	4.57E-01	6.42E-01	1.63E+00	9.85E-10	9.72E-01	3.92E+00	3.87E+00	1.40E+00	9.97E-01	4.50E-01
U-235+D	6.90E-01	1.82E-01	1.77E-01	4.83E-01	6.73E-01	1.06E+00	9.85E-10	1.43E+00	5.40E+00	5.56E+00	2.04E+00	1.46E+00	-
U-235+E	6.90E-01	1.82E-01	1.77E-01	4.83E-01	6.73E-01	-	-	-	-	-	-	-	-
U-236	1.77E-04	5.87E-04	9.72E-05	1.56E-04	1.77E-04	2.45E+00	2.96E-08	2.40E+03	7.25E+02	4.38E+03	2.73E+03	2.40E+03	3.71E+01
U-237	4.81E-01	1.44E-01	1.36E-01	3.51E-01	4.70E-01	1.42E+00	3.75E+01	5.72E+01	1.92E+02	2.02E+02	7.85E+01	5.86E+01	7.02E-10
U-238	7.94E-05	4.94E-04	6.29E-05	7.83E-05	7.94E-05	2.46E+00	1.55E-10	5.34E+03	8.59E+02	6.74E+03	5.41E+03	5.34E+03	1.59E+04
U-238+D	1.56E-01	-	-	-	-	1.80E+00	1.55E-10	3.72E+00	-	-	-	-	1.11E+01
U-238+E	1.55E-01	1.41E-01	4.59E-02	9.96E-02	1.40E-01	-	1.55E-10	-	-	-	-	-	-
U-239	1.58E-01	9.63E-02	5.17E-02	1.19E-01	1.51E-01	1.44E+00	1.55E+04	7.09E+04	1.16E+05	2.17E+05	9.43E+04	7.44E+04	2.13E-09
U-240	1.11E-03	3.72E-03	8.06E-04	1.08E-03	1.11E-03	2.17E+00	4.31E+02	1.87E+05	5.56E+04	2.57E+05	1.92E+05	1.87E+05	2.02E-07
V-47	5.50E+00	1.23E+00	1.14E+00	3.25E+00	4.98E+00	1.26E+00	1.12E+04	1.68E+03	7.55E+03	8.09E+03	2.85E+03	1.86E+03	1.37E-11
V-48	1.74E+01	3.17E+00	3.23E+00	9.31E+00	1.49E+01	1.23E+00	1.56E+01	7.59E-01	4.16E+00	4.09E+00	1.42E+00	8.89E-01	4.54E-12

Output generated 06JUL2010:04:50:47

Default

Resident Building Dose Compliance Concentrations for 3-D Direct External Exposure

Radionuclide	External Exposure DCF (Infinite Volume) (mrem/yr per pCi/g)	External Exposure DCF (Ground Plane) (mrem/yr per pCi/cm^2)	External Exposure DCF (1 cm) (mrem/yr per pCi/g)	External Exposure DCF (5 cm) (mrem/yr per pCi/g)	External Exposure DCF (15 cm) (mrem/yr per pCi/g)	F_{surf}	Lambda	Resident 3-D External BDCC (infinite depth) (pCi/g)	Resident 3-D External BDCC (ground plane) (pCi/cm^2)	Resident 3-D External BDCC (1 cm) (pCi/g)	Resident 3-D External BDCC (5 cm) (pCi/g)	Resident 3-D External BDCC (15 cm) (pCi/g)	Resident 3-D External BDCC (mass) (mg/kg)
V-49	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.67E-01	-	-	-	-	-	-
W-176	4.18E-01	1.80E-01	1.59E-01	3.52E-01	4.18E-01	1.33E+00	2.64E+03	4.95E+03	1.15E+04	1.30E+04	5.87E+03	4.95E+03	6.41E-10
W-177	4.55E+00	9.78E-01	9.72E-01	2.69E+00	4.07E+00	1.31E+00	2.70E+03	4.72E+02	2.20E+03	2.21E+03	8.00E+02	5.28E+02	6.01E-11
W-178	2.13E-02	1.33E-02	1.05E-02	1.98E-02	2.13E-02	2.65E+00	1.17E+01	2.16E+02	3.45E+02	4.38E+02	2.32E+02	2.16E+02	6.39E-09
W-178+D	4.37E-01	-	-	-	-	1.23E+00	1.17E+01	2.26E+01	-	-	-	-	6.70E-10
W-178+E	4.37E-01	-	-	-	-	-	1.17E+01	-	-	-	-	-	-
W-179	8.09E-02	5.81E-02	4.14E-02	7.57E-02	8.09E-02	1.57E+00	9.71E+03	7.97E+04	1.11E+05	1.56E+05	8.52E+04	7.97E+04	2.85E-09
W-181	6.49E-02	4.01E-02	3.17E-02	6.04E-02	6.49E-02	1.67E+00	2.09E+00	2.29E+01	3.71E+01	4.69E+01	2.46E+01	2.29E+01	3.86E-09
W-185	3.82E-04	2.00E-04	1.40E-04	3.10E-04	3.79E-04	1.58E+00	3.37E+00	6.02E+03	1.15E+04	1.65E+04	7.44E+03	6.08E+03	6.42E-07
W-187	2.57E+00	5.46E-01	5.33E-01	1.50E+00	2.31E+00	1.40E+00	2.54E+02	7.35E+01	3.46E+02	3.55E+02	1.26E+02	8.18E+01	1.05E-10
W-188	8.90E-03	2.12E-03	2.11E-03	5.84E-03	8.47E-03	1.28E+00	3.64E+00	3.43E+02	1.44E+03	1.45E+03	5.22E+02	3.60E+02	3.43E-08
Xe-120	2.13E+00	4.68E-01	4.49E-01	1.25E+00	1.92E+00	1.37E+00	9.11E+03	3.26E+03	1.48E+04	1.54E+04	5.53E+03	3.61E+03	8.34E-11
Xe-121	1.09E+01	1.97E+00	1.98E+00	5.67E+00	9.10E+00	1.27E+00	9.08E+03	6.85E+02	3.78E+03	3.77E+03	1.32E+03	8.20E+02	1.77E-11
Xe-122	2.33E-01	7.04E-02	5.71E-02	1.50E-01	2.20E-01	1.28E+00	3.02E+02	1.06E+03	3.50E+03	4.31E+03	1.64E+03	1.12E+03	8.27E-10
Xe-123	3.41E+00	7.04E-01	6.84E-01	1.94E+00	3.00E+00	1.27E+00	2.92E+03	7.02E+02	3.41E+03	3.50E+03	1.24E+03	7.98E+02	5.74E-11
Xe-125	1.19E+00	2.88E-01	2.74E-01	7.59E-01	1.12E+00	1.28E+00	3.57E+02	2.45E+02	1.01E+03	1.06E+03	3.83E+02	2.61E+02	1.67E-10
Xe-127	1.21E+00	2.99E-01	2.89E-01	7.98E-01	1.16E+00	1.33E+00	6.95E+00	4.51E+00	1.83E+01	1.89E+01	6.83E+00	4.72E+00	1.60E-10
Xe-129m	5.69E-02	4.85E-02	2.35E-02	4.35E-02	5.56E-02	1.46E+00	3.16E+01	3.97E+02	4.65E+02	9.61E+02	5.20E+02	4.06E+02	3.14E-09
Xe-131m	1.92E-02	1.87E-02	8.58E-03	1.52E-02	1.88E-02	1.47E+00	2.13E+01	7.85E+02	8.08E+02	1.76E+03	9.95E+02	8.01E+02	9.39E-09
Xe-133	8.71E-02	4.61E-02	3.49E-02	7.46E-02	8.73E-02	1.41E+00	4.82E+01	4.10E+02	7.74E+02	1.02E+03	4.78E+02	4.09E+02	2.19E-09
Xe-133m	1.18E-01	4.12E-02	3.13E-02	7.94E-02	1.14E-01	1.45E+00	1.16E+02	7.03E+02	2.02E+03	2.65E+03	1.05E+03	7.32E+02	1.57E-09
Xe-135	1.23E+00	2.92E-01	2.78E-01	7.89E-01	1.16E+00	1.28E+00	6.68E+02	4.43E+02	1.86E+03	1.96E+03	6.90E+02	4.68E+02	1.74E-10
Xe-135m	2.35E+00	4.89E-01	4.83E-01	1.37E+00	2.13E+00	1.26E+00	2.38E+04	8.39E+03	4.03E+04	4.08E+04	1.43E+04	9.27E+03	9.23E-11
Xe-138	6.99E+00	1.25E+00	1.23E+00	3.54E+00	5.76E+00	1.27E+00	2.57E+04	3.02E+03	1.69E+04	1.72E+04	5.96E+03	3.66E+03	3.14E-11
Y-86	2.14E+01	3.89E+00	3.95E+00	1.14E+01	1.83E+01	1.25E+00	4.12E+02	1.60E+01	8.84E+01	8.69E+01	3.01E+01	1.88E+01	6.49E-12
Y-86m	1.06E+00	2.38E-01	2.44E-01	6.88E-01	1.00E+00	1.29E+00	7.59E+03	5.81E+03	2.58E+04	2.51E+04	8.91E+03	6.11E+03	1.28E-10
Y-87	2.44E+00	5.03E-01	5.09E-01	1.45E+00	2.22E+00	2.37E+00	7.56E+01	1.36E+01	6.61E+01	6.53E+01	2.30E+01	1.50E+01	3.04E-11
Y-88	1.69E+01	2.81E+00	2.91E+00	8.45E+00	1.38E+01	1.55E+00	2.37E+00	1.04E-01	6.26E-01	6.05E-01	2.08E-01	1.27E-01	7.51E-12
Y-90	4.01E-02	1.28E-01	2.35E-02	3.25E-02	3.88E-02	2.45E+00	9.49E+01	1.01E+03	3.15E+02	1.72E+03	1.24E+03	1.04E+03	1.85E-09

Output generated 06JUL2010:04:50:47

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Resident Building Dose Compliance Concentrations for 3-D Direct External Exposure

Radionuclide	External Exposure DCF (Infinite Volume) (mrem/yr per pCi/g)	External Exposure DCF (Ground Plane) (mrem/yr per pCi/cm^2)	External Exposure DCF (1 cm) (mrem/yr per pCi/g)	External Exposure DCF (5 cm) (mrem/yr per pCi/g)	External Exposure DCF (15 cm) (mrem/yr per pCi/g)	F_{surf}	Lambda	Resident 3-D External BDCC (infinite depth) (pCi/g)	Resident 3-D External BDCC (ground plane) (pCi/cm^2)	Resident 3-D External BDCC (1 cm) (pCi/g)	Resident 3-D External BDCC (5 cm) (pCi/g)	Resident 3-D External BDCC (15 cm) (pCi/g)	Resident 3-D External BDCC (mass) (mg/kg)
Y-90m	3.26E+00	6.97E-01	7.05E-01	2.00E+00	3.02E+00	1.28E+00	1.90E+03	4.75E+02	2.23E+03	2.20E+03	7.77E+02	5.13E+02	4.36E-11
Y-91	3.79E-02	8.71E-02	1.36E-02	2.46E-02	3.39E-02	1.23E+00	4.32E+00	9.81E+01	4.27E+01	2.74E+02	1.51E+02	1.09E+02	4.01E-09
Y-91m	2.95E+00	5.95E-01	6.01E-01	1.71E+00	2.65E+00	1.24E+00	7.33E+03	2.09E+03	1.04E+04	1.03E+04	3.60E+03	2.33E+03	5.04E-11
Y-92	1.60E+00	4.47E-01	3.30E-01	8.78E-01	1.38E+00	1.23E+00	1.71E+03	9.10E+02	3.25E+03	4.40E+03	1.66E+03	1.06E+03	9.47E-11
Y-93	5.97E-01	2.45E-01	1.33E-01	3.32E-01	5.11E-01	1.20E+00	6.01E+02	8.75E+02	2.13E+03	3.94E+03	1.57E+03	1.02E+03	2.63E-10
Y-94	6.81E+00	1.39E+00	1.29E+00	3.64E+00	5.80E+00	1.22E+00	1.91E+04	2.39E+03	1.17E+04	1.26E+04	4.48E+03	2.81E+03	2.29E-11
Y-95	5.97E+00	1.06E+00	9.94E-01	2.83E+00	4.70E+00	1.22E+00	3.40E+04	4.88E+03	2.74E+04	2.93E+04	1.03E+04	6.19E+03	2.64E-11
Yb-162	4.20E-01	1.42E-01	1.29E-01	3.15E-01	4.12E-01	1.32E+00	1.93E+04	3.63E+04	1.07E+05	1.18E+05	4.83E+04	3.69E+04	5.92E-10
Yb-166	1.27E-01	8.68E-02	6.47E-02	1.18E-01	1.27E-01	1.36E+00	1.07E+02	6.45E+02	9.46E+02	1.27E+03	6.93E+02	6.45E+02	1.94E-09
Yb-167	7.98E-01	2.77E-01	2.48E-01	5.93E-01	7.74E-01	1.31E+00	2.08E+04	2.08E+04	5.99E+04	6.68E+04	2.79E+04	2.14E+04	3.23E-10
Yb-169	9.96E-01	3.24E-01	2.95E-01	7.25E-01	9.70E-01	1.30E+00	7.90E+00	6.37E+00	1.95E+01	2.15E+01	8.74E+00	6.54E+00	2.64E-10
Yb-175	1.94E-01	4.36E-02	4.38E-02	1.23E-01	1.82E-01	1.27E+00	6.04E+01	2.56E+02	1.14E+03	1.13E+03	4.05E+02	2.73E+02	1.44E-09
Yb-177	1.04E+00	2.53E-01	2.09E-01	5.86E-01	9.10E-01	1.25E+00	3.20E+03	2.55E+03	1.05E+04	1.28E+04	4.55E+03	2.93E+03	2.74E-10
Yb-178	1.82E-01	4.20E-02	3.95E-02	1.12E-01	1.69E-01	1.27E+00	4.92E+03	2.22E+04	9.62E+04	1.02E+05	3.61E+04	2.40E+04	1.56E-09
Zn-62	2.35E+00	4.84E-01	4.87E-01	1.38E+00	2.13E+00	1.26E+00	6.56E+02	2.31E+02	1.12E+03	1.11E+03	3.93E+02	2.55E+02	4.24E-11
Zn-63	6.14E+00	1.35E+00	1.27E+00	3.58E+00	5.52E+00	1.25E+00	9.56E+03	1.30E+03	5.89E+03	6.30E+03	2.23E+03	1.44E+03	1.66E-11
Zn-65	3.51E+00	6.31E-01	6.43E-01	1.86E+00	2.97E+00	1.23E+00	1.04E+00	3.89E-01	2.16E+00	2.12E+00	7.33E-01	4.59E-01	4.72E-11
Zn-69	2.93E-03	2.43E-02	1.51E-03	2.39E-03	2.87E-03	1.27E+00	6.39E+03	1.79E+06	2.16E+05	3.48E+06	2.20E+06	1.83E+06	3.75E-08
Zn-69m	2.24E+00	4.64E-01	4.72E-01	1.34E+00	2.05E+00	1.27E+00	4.41E+02	1.62E+02	7.80E+02	7.68E+02	2.69E+02	1.77E+02	4.91E-11
Zn-71m	8.60E+00	1.80E+00	1.76E+00	5.02E+00	7.74E+00	1.25E+00	1.55E+03	1.50E+02	7.19E+02	7.35E+02	2.58E+02	1.67E+02	1.34E-11
Zn-72	5.97E-01	1.56E-01	1.58E-01	4.27E-01	5.86E-01	1.64E+00	1.31E+02	1.39E+02	5.31E+02	5.26E+02	1.94E+02	1.42E+02	1.49E-10
Zr-86	1.32E+00	2.99E-01	2.98E-01	8.43E-01	1.25E+00	2.21E+00	3.68E+02	1.32E+02	5.81E+02	5.82E+02	2.06E+02	1.39E+02	5.98E-11
Zr-88	2.09E+00	4.40E-01	4.46E-01	1.27E+00	1.92E+00	2.18E+00	3.03E+00	7.30E-01	3.46E+00	3.42E+00	1.20E+00	7.94E-01	4.11E-11
Zr-89	6.73E+00	1.28E+00	1.30E+00	3.73E+00	5.87E+00	1.83E+00	7.74E+01	6.55E+00	3.44E+01	3.40E+01	1.18E+01	7.51E+00	1.46E-11
Zr-93	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.53E-07	-	-	-	-	-	-
Zr-95	4.23E+00	8.22E-01	8.32E-01	2.39E+00	3.75E+00	1.25E+00	3.95E+00	7.94E-01	4.09E+00	4.04E+00	1.41E+00	8.97E-01	3.70E-11
Zr-97	1.08E+00	2.92E-01	2.13E-01	5.91E-01	9.33E-01	1.25E+00	3.59E+02	2.77E+02	1.03E+03	1.41E+03	5.07E+02	3.21E+02	1.45E-10

Output generated 06JUL2010:04:50:47